AMERICAN FORK CITY

AMENDED PLANNING COMMISSION AGENDA

Regular Session

December 04, 2024

Wednesday 6:00 PM

American Fork City Hall

31 North Church Street

American Fork City, UT 84003

https://www.americanfork.gov/AgendaCenter

Planning Commission Members

Christine Anderson, Chair	**Rod Martin**
Chris Christiansen, Vice Chair	**David Bird**
Geoff Dupaix	**Harold Dudley**
Bruce Frandsen	**Claire Oldham**

Notice is hereby given that the American Fork City Planning Commission will meet in regular session on December 4, 2024, at the American Fork City Hall, 31 North Church Street commencing at 6:00 PM. The agenda shall be as follows:

1. **Regular Session**
    a. Pledge of Allegiance
    b. Roll Call

2. **Common Consent Agenda** (Common Consent is that class of Commission action that requires no further discussion or which is routine in nature. All items on the Common Consent Agenda are adopted by a single motion unless removed from the Common Consent Agenda).
    a. Approval of the November 6, 2024, Planning Commission minutes
    b. Adoption of the 2025 Planning Commission schedule.

3. **Public Hearings** (Public Hearings is that class of Commission action that requires further discussion on General Plan changes, Zone changes, and Code Text Amendments that alter the land use characteristics of American Fork City. Public Hearing items will have the chance for the public to speak upon.)
    a. Public hearing, review, and recommendation on a proposed code text amendment modifying Section 13.08.292 Policy Regarding Meters and Service Laterals s of the American Fork Municipal Code.
    b. *Public hearing, review, and recommendation on a proposed code text amendment modifying Section 17.5.131 Water and Sewer Connection Standards of the American Fork Municipal Code.

4. **Action Items** (Action Items is that class of Commission action that requires further discussion on Site Plans and proposed zoning designation for annexing areas. The Planning Commission will have authority to approve Site Plans for final action and provide recommendations for the zone of annexing property.)
    a. Review and approval on an application for a Commercial Site Plan, known as AT&T Tower Modification Highland 2, located at approximately 1200 N 550 E, American Fork City, UT 84003. The Commercial Site Plan will be on approximately 0.03 acres and will be in the Public Facilities (PF) Zone.
    b. *Review and recommendation on an application for a Commercial Site Plan, known as AT&T Upgrade, located at approximately 1584 S 500 E, American Fork City, UT 84003. The Commercial Site Plan will be on approximately 3.32 acres and will be in the I-1 Industrial zone.

5. **Other Business**
    a. Upcoming Projects

6. **Adjournment**

Dated this 25th day of November 2024

Patrick O’Brien

Development Services Director

**The order of agenda items may change at the discretion of the Planning Commission Chair*

AMERICAN FORK CITY

PLANNING COMMISSION REGULAR SESSION

November 6th, 2024

The American Fork City Planning Commission met in a regular session on November 6th, 2024, at the American Fork City Hall, 31 North Church Street, commencing at 6:00 p.m.

Commissioners Present: Christine Anderson, Bruce Frandsen, Geoff Dupaix, Chris Christiansen, Rodney Martin, Harold Dudley, David Bird

Commissioners Absent:

Staff Present:

Travis Van Ekelenburg	Senior Planner
Cody Opperman	Planner II
Ben Hunter	City Engineer
Melissa White	Development Project Coordinator

Others Present: Ben Wheat, Mike Roderick

REGULAR SESSION

Christine Anderson led the "Pledge of Allegiance"

Roll Call

Chairwoman Anderson thanked all Veterans for their service.

COMMON CONSENT AGENDA

Minutes of the October 16th, 2024, Planning Commission Regular Session.

Bruce Frandsen motioned to approve the Common Consent agenda

Rodney Martin seconded the motion.

Voting was as follows:

Christine Anderson	**AYE**
Chris Christiansen	**Abstain**
Rodney Martin	**Abstain**
David Bird	**Abstain**
Geoff Dupaix	**AYE**
Bruce Frandsen	**AYE**

The motion passed

ACTION ITEMS

a. **Review and recommendation on a proposed Land Use Map Amendment, known as Roderick Catalyst Business Park, located at approximately 100 East and 1700 South, American Fork City. On approximately 18.69 acres, the property proposes to change from the Shoreline Protection designation to the Design Industrial land use designation.**

Travis Van Ekelenburg reviewed the background information for action item letter a: The applicant has applied for a proposed Land Use Map Amendment. The applicant seeks to change the current Shoreline Protection Land Use designation to the Design Industrial Land Use designation to match the current Roderick Catalyst Business Park to the north of this property. The Design Industrial Land Use would allow for more industrial uses, specifically oriented towards the Planned Industrial Parks and Industrial Zone of the City. Running concurrently is a zone change for this Land Use Map Amendment.

At the previous Planning Commission meeting there were statements made that our third-party consultant, who is doing our General Plan, was looking into this property for a potential area for marina and recreational space for the future of the boat harbor area. Since the last discussion, the Development Services Director has coordinated with the consultant team and has taken this

property out of the vision and marina area for future consideration in the activation of the marina area.

The applicant Ben Wheat told the commission that he had one comment, and he wanted to point out that the condition recommended by staff in the packet for this meeting, was not required in the last meeting packet when the items were tabled. He added that the only concern he has with the agenda is the project conditions of approval, and he has two things he would like to discuss. Mr. Wheat read the condition, "Wetland delineation shall be provided by the applicant, to identify wetland locations on site, all areas identified as wetlands, shall be preserved as Marina M-1 zone", he noted that the property next to his, the Winkle property, came through the process with the same application, but did not have this condition of approval. Mr. Wheat also noted that the property to the east of that, Phelon Lakeland, was changed to the Industrial zone in 2021 without this condition of approval. Mr. Wheat stated that he just wanted a fair shake like everyone else, and creating pockets of his property that will be required to stay in the M-1 zone will hinder development and create spot zoning. The applicant reminded the commissioners of their plan to complete 9 buildings on the project they currently have under construction, and the amount of tax revenue he believes the tenants who currently occupy the four completed buildings will bring to the city. Mr. Wheat also reminded the commissioners of his presentation from the last meeting, and the reason for purchasing this property, which was to protect their two-hundred-million-dollar investment and the land around it.

Christine Anderson asked the City Engineer, Ben Hunter, if he could clarify the wetland condition. Mr. Hunter informed that any wetlands that are affected by development must go through Army Corp approvals. He also added that since the other zone change approvals that the applicant referenced, in November 2023, the city adopted a sensitive land hazards map that has helped identify some of the wetlands in different areas of the city, to aide in identifying some of those shoreline protection and natural habitat areas. Mr. Hunter noted that as far as spot zoning is concerned, he is not able to speak on that until he has seen the wetland delineation. Chairwomen Anderson asked staff if there is a way to word the condition of approval in a way that if there are areas identified as wetlands, that they need to mitigate a way that is acceptable to the Army Corp of Engineers, or if it needs to say those areas must stay as part of the shoreline protection designation. Ben Hunter clarified that part of the Army Corp approval process depends on what is being developed, in order to determine what that mitigation amount would be.

Mr. Wheat wanted to point out that his property is not butted right up to the lake, and he would like to make the differentiation that they are not on the shoreline.

Bruce Frandsen commented that he has walked this property and knows it very well, and while there are a few areas that are considered wetlands throughout the parcel, the possibility of filling those areas with dirt and adding the wetlands area to the southeast corner of the property does exist, but that would require a change to the verbiage in the condition of approval. Harold Dudley noted that he agrees with Mr. Frandsen.

Ben Hunter reminded the commissioners that a change in the verbiage could open the possibility of being able to mitigate everything, and then there is no shoreline protection, so the question is what is in the best interest of the city. Mr. Frandsen stated that while he agrees, the city has allowed a lot of homes to be built in the shoreline protection zone west of the boat harbor, and he is confident that ground looks exactly like this parcel, and he is unaware of any wetland delineation being done in that area. Mr. Hunter responded that he believes AF Crossings is the area Mr. Frandsen is referring to, and they did have a wetland delineation plan and the development that they have is outside of the wetlands. He added that the only item he can recall is the TSSD sewar line being out in the middle of the wetlands, and because the Army Corp of Engineers does not require mitigation on underground utilities, the only mitigation required was when the road was going in and they were tying into that sewar line, everything else was outside of the wetland delineation that the developer provided.

Ben Wheat responded that he does not see the reasoning for a wetland delineation requirement on a zone change, but he would be more than happy to do that once he is ready to develop the property and added, again, that this was not a requirement at the last planning commission meeting when this item was tabled. Chairwomen Anderson asked staff to clarify if a wetland delineation is required on the other applications such as a site plan, and Mr. Frandsen asked how long a wetland delineation is valid. Mr. Hunter clarified that it is required for development, and he has heard they are valid for 2 years. Mr. Frandsen added that he thinks his wetland delineation from the Army Corp of Engineers is valid for 3 years, so he does not see why it would be required at this stage, as they may not develop for years at which time they will be required to have it done again. The applicant added that he is only asking for a zone change as he does not know what he will be developing.

Chris Christiansen voiced his concern with there being a condition added to this packet that was not previously a requirement. Christine Anderson informed the commissioners that were not at the last meeting that the city was working with a 3rd party on the general plan, and they were looking at the options for the Marina use, which is the current zone of this parcel. Now they have decided this is not an area they will need for the general plan, so that change could require different conditions to approve the zone change.

Rodney Martin stated that he was ready with a motion, but Chairwomen Anderson asked if staff could explain the benefit of having the wetland delineation required at this stage. Ben Hunter explained that the condition is a way to preserve the wetlands if the city's intent is to have those protected areas, otherwise it opens up the possibility to mitigate everything. He added that if the zone is changed to an industrial zone, he is not sure what would be required once the parcel is ready for development as it may not be shoreline protected as the Marina zone is. Travis Van Ekelenburg noted that he believes the Army Corp requirements would still exist regardless of the zone.

Christine Anderson asked if it would be possible to change the wording to require the specific areas to be treated as Shoreline Protected if they are considered wetlands. Ben Hunter indicated that he is unsure as to how the city code would treat that. Bruce Frandsen asked for clarification as to why everyone keeps saying shoreline protection when this is clearly shown on the map as Marina (M-1) zone. Cody Opperman explained that the applicant is here requesting a Land Use Map amendment, as well as a Zone Change, and they are two different maps. He noted that there is an error as it should not say "Resort" rather Shoreline Protection. Chris Christiansen asked to confirm that the reason this condition was added was because the city decided not to require this area be preserved for a possible future Shoreline protection area development. Ben Hunter corrected Mr. Christiansen that it was not Shoreline protection development, but rather Marina development. David Bird clarified that at this time we do not know what areas of this parcel are considered wetlands, so until the wetland delineation is done, we do not know what we are preserving or what we are condemning. Mr. Hunter told him that is correct. Christine Anderson asked if the Army Corp is only there to decide what can be mitigated, not what should be protected. Ben Hunter confirmed that the protection is part of the city code, and he added that the Army Corp mitigation is determined on a case-by-case basis. Mr. Hunter explained the shoreline protection zone's purpose is based on five items;
'Protecting the shoreline of Utah Lake, Protecting Natural and cultural resources and features adjacent to the lake, providing for and protecting public ownership and access to the lake, providing a corridor for a non-motorized trail around Utah Lake, and improving the use and water quality of Utah Lake.'
Mr. Hunter added that some of the uses that are allowed per city code in the current zone are things like golf courses and campgrounds, and once the zone is changed, those uses that are designed to protect the area surrounding the lake are no longer in place. He added that The Army Corp would then come in and mitigate how to deal with area's that are considered wetlands, based on what the current zone would allow for development.

Jeff Dupaix stated that it seems the decision to be made is whether the wetland delineation should be required with the land use change, or at the site plan stage of development. Mr. Dupaix asked the City Engineer if he understood correctly that if the Land Use changed before the wetland delineation was required, the wetland areas are no longer protected under city code, and an industrial building could be built. Mr. Hunter told him he was correct, as what can be done with this land is no longer bound by shoreline protection requirements. Mr. Dupaix clarified with Ben Wheat that from his perspective, those properties to the east, like the rock crushing business, are more invasive to the shoreline protection than what he would be doing with his parcel. Mr. Wheat responded that he hopes their 10-year track record as a company within the city would speak for itself. Mr. Wheat also added that as a hypothetical, if he were to build a 5000 square foot building and a yard with some parking and dedicated 3 acres to the wetlands, he would still be coming come back through the process for approval, and the Army Corp would still be involved. Christine Anderson thanked the applicant for his comments.

Rodney Martin moved to recommend approval for the proposed Land Use Map Amendment, located at approximately 100 E 1700 S, American Fork City, from the Shoreline designation to the Design Industrial designation, and remove any conditions of approval from the staff report.

Harold Dudley seconded the motion.

Voting was as follows:

Christine Anderson	**NAY**
Chris Christiansen	**AYE**
Rodney Martin	**AYE**
David Bird	**AYE**
Geoff Dupaix	**AYE**
Bruce Frandsen	**AYE**
Harold Dudley	**AYE**

The motion passed

b. Review and recommendation on a proposed Zone Change, known as Roderick Catalyst Business Park, located at approximately 100 East and 1700 South, American Fork City. On approximately 18.69 acres, the property proposes to change from the Marina (M-1) zone to the Industrial (I-1) zone.

Travis Van Ekelenburg reviewed the background information for action item letter b: The applicant has applied for a proposed Zone Change. The applicant is seeking to change the current M-1 zoning designation to the I-1 zoning designation. The I-1 zoning designation allows for industrial uses that are similar to the existing uses to the east of the property. Recently, there has been a zone change for the property directly east of the proposed zone change to the I-1 zoning. Staff recommends that if this zone change request were to be approved, that the TSSD eastern property line be identified as the defining line that delineates the hard boundary between any future land use and zone changes related to industrial uses, and that the TSSD property be the beginning point for the M-1 zone, to accommodate the future plans for marina and harbor

improvements and uses to better active that area of the city, and to develop a useable area along the lakefront with water access and amenities.

At the previous Planning Commission meeting there were statements made that our third-party consultant, who is doing our General Plan, was looking into this property for a potential area for marina and recreational space for the future of the boat harbor area. Since the last discussion, the Development Services Director has coordinated with the consultant team, and has taken this property out of the vision and marina area for future consideration in the activation of the marina area.

Bruce Frandsen moved to recommend approval for the proposed Zone Change, located at approximately 100 E 1700 S, American Fork City, from the M-1 zoning designation to the I-1 zoning designation.

David Bird seconded the motion.

Voting was as follows:

Christine Anderson	**NAY**
Chris Christiansen	**AYE**
Rodney Martin	**AYE**
David Bird	**AYE**
Geoff Dupaix	**NAY**
Bruce Frandsen	**AYE**
Harold Dudley	**AYE**

The motion passed

The applicant Ben Wheat interrupted the voting process and asked Mr. Frandsen if it was his intent to include in the motion that the project conditions of approval be removed for the Zone Change as was done in the motion for the Land Use Map Amendment. Mr. Frandsen agreed that was his intent. Mr. Wheat then asked David Bird if it was his understanding that the condition was removed. (Inaudible as too many people were talking over each other)

Christine Anderson asked staff if it was okay at this point to modify the motion. Cody Opperman informed her that the voting took place after the motion was read and had a second, so the motion has passed as is.

Mr. Wheat wanted to ask a few more questions for the record and the minutes.

Travis Van Ekelenburg stated the request is not the way it is supposed to be done, but the decision could be made by the Chairwomen. Christine Anderson noted that she thinks it is assumed that was the intention of the motion. Harold Dudley responded that he is comfortable with Bruce's answer. Christine Anderson added that this has to move forward as is, but she thinks the assumption is noted.

Ben Wheat stated that he does not like assumptions in his world, so Christine Anderson and Geoff Dupaix tried to explain that once the vote has taken place the motion is done. Travis Van Ekelenburg pointed out that at the end of the motion, nothing was stated about the staff conditions, so it was not included or excluded in the motion. Christine Anderson added that because Bruce did not include the conditions of the staff report in his motion, they are left out, which is what she believes Bruce's intention was.

Ben Wheat asked if he could ask a question for clarification, and Chairwomen Anderson reminded him that the vote has already been taken. Mr. Wheat continued to inquire about what will happen when staff puts together the report for City Council, and if the condition for the zone change is going to be included. Mr. Van Ekelenburg informed Mr. Wheat that it would be included as that condition is the recommendation of staff and will be part of the record. Ben Hunter added that the City Council will then see that the Planning Commission's recommendation would be without the condition, but the City Council can vote to agree with Planning Commission, or they can vote to put the condition back in as a requirement or even make other changes.

c. Review and recommendation on a proposed zone for an annexation, known as Auto Mall Drive Extension Annexation, located at approximately 620 South 100 East, American Fork City. On approximately 23.92 acres, the property will be annexed into American Fork City and be given the Planned Commercial (GC-2) and the Planned Industrial (PI-1) zoning designation.

Cody Opperman reviewed the background information for action item letter c: The applicant has applied for annexation within American Fork City. The project area looks to have the PI-1 zoning designation and GC-2 zoning designation assigned to the land, which would be for Planned Industrial Projects and Planned Commercial Development Projects. This annexation has

been initiated by American Fork City to complete an infrastructure project relating to Automall Drive. The property south of 620 South is owned by American Fork City and it will have a continuation of Automall Drive going through the property. The American Fork City property will be coming into the City as the PI-1 zoning designation. The property to the north of 620 South will come into the City as the GC-2 zoning designation. Both properties will be aligned with the current Land Use Designations.

Bruce Frandsen asked if the owner of the north property has requested to be part of this annexation. Ben Hunter replied that the owner is listed on and did sign the application under Strata LLC, as one of the applicants. Mr. Hunter added that some of that landowners' main concerns have been incorporated into the annexation agreement, so he is kept aware, and he is not feeling forced into the annexation.

Geoff Dupaix moved to recommend approval for the proposed zoning for the Auto Mall Drive Extension Annexation Agreement, located approximately at 5719 W 7300 N, American Fork City, subject to any conditions found in the staff report.

Chris Christiansen seconded the motion.

Voting was as follows:

Christine Anderson	**AYE**
Chris Christiansen	**AYE**
Rodney Martin	**AYE**
David Bird	**AYE**
Geoff Dupaix	**AYE**
Bruce Frandsen	**AYE**
Harold Dudley	**AYE**

The motion passed

d. Review and recommendation on a proposed zone for an annexation, known as Jes and Claire Scott Annexation, located at approximately 305 East 620 South, American Fork City. On approximately 1.52 acres, the property will be annexed

into American Fork City and be given the Planned Commercial (GC-2) zoning designation.

This Item has been pulled from the agenda.

Other Business

Christine Anderson informed the commissioners that there may not be a second meeting this month depending on if there are applications coming in. Cody Opperman mentioned that April of 2025 is the estimated time of the General plan completion.

Adjournment

Geoff Dupaix motioned to adjourn the meeting.

Rodney Martin seconded the motion.

Meeting adjourned at 7:09 PM

Melissa White

Development Project Coordinator

Transcribed by Angela McKee

The order of agenda items may change to accommodate the needs of the commissioners, public and staff.

Adoption of the 2025
Planning Commission Schedule

The American Fork Planning Commission will meet in regular sessions on the first and third Wednesdays of each month during 2025, at 6:00 p.m., unless noted otherwise, in the American Fork City Hall, 31 North Church Street. The specific meeting dates are listed below:

January 8 and 22	**July 16**
February 5 and 19	**August 6 and 20**
March 5 and 19	**September 3 and 17**
April 2 and 16	**October 8 and 22**
May 7 and 21	**November 5 and 19**
June 4 and 18	**December 3 and 17**

Dated this 18th day of November 2024

Patrick O'Brien, Development Services Director

Development Review Committee Staff Report
Meeting Date: December 4, 2024

Agenda Topic

Review and recommendation on a proposed code text amendment modifying Section 13.08.292 Policy Regarding Meters and Service Laterals s of the American Fork Municipal Code.

Background

The staff has initiated for a Code Text Amendment to amend Section 13.08.292 of the American Fork City Municipal Code. The proposed amendment seeks to clarify and amend the code to permit the use of common laterals for buildings with individually owned units.

Potential Motions – Code Text Amendment

Approval

Madame Chair, I move to recommend approval for the proposed Code Text Amendment, amending Section 13.08.292, titled Policy Regarding Meters and Service Laterals, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units, and providing an effective date for the ordinance.

Denial

Madame Chair, I move to recommend denial for the proposed Code Text Amendment, amending Section 13.08.292, titled Policy Regarding Meters and Service Laterals, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units.

Table

Madame Chair, I move to table action for the proposed Code Text Amendment, amending Section 13.08.292, titled Policy Regarding Meters and Service Laterals, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units, and instruct staff/developer to…….

Sec 13.08.292 Policy Regarding Meters And Service Laterals

A. The policy of the city of American Fork regarding the number of separate service laterals and meters for residential and commercial structures is as follows:

1. For one- and two-family dwelling structures, a separate service lateral and meter for each dwelling unit are required.

2. For multiple-family dwelling structures under one ownership, separate service laterals and meters for each dwelling unit shall be the general rule; provided, however, that where design dictates otherwise, a common lateral and single meter (or fewer laterals and meters than the number ~~otherwise specified~~required for each dwelling unit) may be permitted where the applicant provides adequate documentation and guarantees to assure adequacy of water delivery and responsibility for payment and maintenance. In any such case, the city administrator, with the advice and recommendation of the city engineer, may in their~~his~~ sole discretion reduce the required number of meters and service laterals accordingly.

3. For multiple-family dwelling structures under separate ownership for each unit, separate service laterals and meters are required for each unit. The city administrator, with the advice and recommendation of the city engineer, may in their sole discretion, reduce the required number of meters and service laterals. A common lateral, or multiple common laterals, and single meter for each lateral (or fewer laterals and meters than the number required for each dwelling unit) may be permitted, and are encouraged, to reduce the number of connections to the main line if the following conditions are met:

   a. The applicant shall provide adequate documentation and guarantees to assure adequacy of water delivery including adequate water pressure to all services branching from the common lateral.

   b. The water meter for the common lateral shall be placed within a public right-of-way or within a designated culinary water line easement dedicated to the City per easement requirements found in the Municipal Code.

   c. Each unit shall have their own service lateral branching from the common lateral that can be shut off individually for each unit.

   d. The common lateral shall be owned by an HOA.

   e.

~~a.~~ It shall be the responsibility of the HOA for payment and maintenance of the common lateral.

f. Submittal of a utility liability indemnification document, indemnifying the city against damages that may occur to tenants within the building as a result of a malfunction of the common utility system and agreeing to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of a malfunction or~~and~~ as required by the City Engineer. This document shall be recorded at the Utah County Recorder's office in perpetuity for all affected lots.

~~3.~~4. For commercial structures, separate service laterals and meters shall be the general rule; provided, however, that in those cases where the design dictates otherwise and the commercial structures are under one ownership, common laterals and meters may be permitted where the applicant provides adequate documentation and guarantees to assure adequacy of water delivery and responsibility for payment and maintenance. In any such case, the city administrator, with the advice and recommendation of the city engineer, may in their~~his~~ sole discretion reduce the required number of meters and service laterals accordingly.

B. The size of the meter required for a one- or two-family dwelling units shall be either a 3/4 (or 5/8) inch meter or one inch meter; the size required for multiple-family dwelling units shall also be either a 3/4 (or 5/8) inch meter or one inch meter, if separately metered; and the size for all other meters provided in this section shall be as established and required by the city administrator, with the advice and recommendation of the city engineer.

C. The city council is hereby authorized to pass one or more resolutions, or a series of resolutions, establishing policies and procedures to assist in the implementation, administration, and interpretation of the provisions of this section.

D. The city administrator is authorized to adopt written policies, consistent with this section and any resolutions authorized hereunder, to assist in the implementation, administration, and interpretation thereof.

Development Review Committee Staff Report
Meeting Date: November 4, 2024

Agenda Topic

Review and recommendation on a proposed code text amendment modifying Section 17.5.131 Water and Sewer Connection Standards of the American Fork Municipal Code.

Background

The staff has initiated for a Code Text Amendment to amend Section 17.5.131 of the American Fork City Municipal Code. The proposed amendment seeks to clarify and amend the code to permit the use of common laterals for buildings with individually owned units.

Potential Motions – Code Text Amendment

Approval

Madame Chair, I move to recommend approval for the proposed Code Text Amendment, amending Section 17.5.131, titled Water and Sewer Connection Standards, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units, and providing an effective date for the ordinance.

Denial

Madame Chair, I move to recommend denial for the proposed Code Text Amendment, amending Section 17.5.131, titled Water and Sewer Connection Standards, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units.

Table

Madame Chair, I move to table action for the proposed Code Text Amendment, amending Section 17.5.131, titled Water and Sewer Connection Standards, related to clarifying and amending the code to permit the use of common laterals for buildings with individually owned units, and instruct staff/developer to…….

Sec 17.5.131 Water And Sewer Connection Standards

A. Residential uses.

1. Culinary water and pressurized irrigation. Each dwelling unit shall be served by the city's culinary water and pressurized irrigation system. Each dwelling unit shall be served by an individual service lateral and meter with the following exceptions:

    a. In the instance of multi-story multi-unit structures on a single lot, the city, at their sole discretion, may authorize the use of oversize connections and a master meter.

    b. In the instance of a multi-story multi-unit building where the property boundaries of each unit are confined to the extents of the structures and there are no exterior landscaping areas located within the unit's property boundaries, an individual pressurized irrigation service later is not required.

    c. For multiple-family dwelling structures under separate ownership for each unit, separate service laterals and meters are required for each unit. The city administrator, with the advice and recommendation of the city engineer, may in their sole discretion, reduce the required number of meters and service laterals. A common lateral, or multiple common laterals, and single meter for each lateral (or fewer laterals and meters than the number required for each dwelling unit) may be permitted, and are encouraged, to reduce the number of connections to the main line if the following conditions are met:

        1) The applicant shall provide adequate documentation and guarantees to assure adequacy of water delivery including adequate water pressure to all services branching from the common lateral.

        2) The water meter for the common lateral shall be placed within a public right-of-way or within a designated culinary water line easement dedicated to the City per easement requirements found in the Municipal Code.

        3) Each unit shall have their own service lateral branching from the common lateral that can be shut off individually for each unit.

4) The common lateral shall be owned by an HOA.

5) It shall be the responsibility of the HOA for payment and maintenance of the common lateral.

~~b.~~6) Submittal of a utility liability indemnification document, indemnifying the city against damages that may occur to tenants within the building as a result of a malfunction of the common utility system and agreeing to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of a malfunction and as required by the City Engineer. This document shall be recorded at the Utah County Recorder's office in perpetuity for all affected lots.

2. Sewer. Each dwelling unit shall be served by the city's sewer collection system. Each dwelling unit shall be connected to the sewer collection system by an individual lateral, except that in the instance of multi-story multi-unit structures ~~on a single lot~~, the city, at their sole discretion, may authorize the use of a common lateral if the following conditions are met: ~~:~~

1) The common lateral shall be owned by an HOA.

2) It shall be the responsibility of the HOA for payment and maintenance of the common lateral.

~~2.~~3) Submittal of a utility liability indemnification document, indemnifying the city against damages that may occur to tenants within the building as a result of a malfunction of the common utility system and agreeing to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of a malfunction and as required by the City Engineer. This document shall be recorded at the Utah County Recorder's office in perpetuity for all affected lots.

B. Commercial, industrial, mixed uses, and institutional uses. Minimum standards for culinary water, pressurized irrigation and sewer connections for commercial, industrial, mixed uses, and institutional uses are as follows:

1. Buildings. At a minimum, each building shall be served by a separate water and sewer connection which is connected directly to city water and sewer laterals having sufficient capacity to accommodate the anticipated demand from the proposed use.

2. Lots. Each lot shall be served by an individual service lateral and meter connected to the city's pressurized irrigation system.

3. Multi-tenant. Each multi-tenant building shall conform to the following standards, as applicable:

    a. In the instance of a ~~single story~~single-story ~~building~~ where the units in the building are designed to be divided into separate units and intended to be owned by separate owners, each unit shall be served by individual water and sewer service laterals connected directly to a city water and sewer line having sufficient capacity to accommodate the anticipated demand from the proposed use.

    b. In the instance of a single story building where all of the units within the building are to remain in single ownership, the city may authorize the use of a single water and/or sewer connection for the entire building subject to: (1) the providing of adequate assurances of continued unified ownership, (2) submittal of a document, acceptable to the city, indemnifying the city against damages that may occur to tenants within the building as a result of a malfunction of the common utility system and agreeing to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of a sale of any of the units within the building to a separate owner.

    c. In the instance of a multi-unit building intended to be divided into separately owned units (condominium project), except as otherwise stated herein, each unit utilizing culinary water and/or sewer shall be served by an individual water service lateral and meter which are connected directly to a city water line and each unit shall be served by an individual sewer service lateral which is connected to a city or private sewer line having sufficient capacity to accommodate the anticipated demand from the proposed use.

        1) The City may permit only a single water line and single sewer service lateral to the entire building upon the following findings by the City Engineer: (1) the building is subject to a valid condominium ownership association, (2) use of water and sewer is limited only to common areas of the building, (3) an indemnification agreement indemnifying the city against damage that may occur to units within the building as a result

of a malfunction of the common utility system has been received, and (4) an agreement to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of dissolution or termination of the condominium ownership association has been received.

d. In the instance of a multi-story, multi-unit, mixed use building where all units within the structure are to remain in single ownership, the city may authorize the use of a single water and/or sewer connection for each land use type within the structure subject to: (1) the providing of adequate assurances of continued unified ownership, (2) submittal of a document, acceptable to the city, indemnifying the city against damages that may occur to tenants within the building as a result of a malfunction of a common utility system and agreeing to retro-fit the utility system to provide individual water and sewer laterals to each unit in the event of a sale of any of the units within the building to a separate owner

Development Review Committee Staff Report
Meeting Date: December 4, 2024

Agenda Topic

Review and action on an application for a Commercial Site Plan, known as AT&T Tower Modification – Highland 2, located at approximately 1200 North 500 East, American Fork City. The Commercial Site Plan will be on approximately 62.25 acres and will be in the Public Facilities (PF) Zone.

BACKGROUND INFORMATION		
Location:		1200 N 500 E
Project Type:		Commercial Site Plan
Applicants:		Patty Bartlett - Smartlink
Existing Land Use:		Public Parks & Open Space
Surrounding Land Use:	North	Public Parks & Open Space
	South	Residential Low Density
	East	Institutional Lands, Schools, and Public Facilities
	West	Residential Low Density
Existing Zoning:		PF
Surrounding Zoning:	North	PF
	South	R1-9000
	East	S-1; RA-1
	West	PR-3.0
Square Footage (By Use)		N/A (Communication Upgrades)
Total Number of Units		N/A
Parking Requirement		N/A

Background

The applicant has applied for a Commercial Site Plan to upgrade their wireless telecommunications network. The project looks to replace antennas, remote radio heads, and related accessory equipment to an already existing monopole tower. The applicant is not looking to increase the height of the tower, or their antennas; the upgrades will reduce the antenna height.

Sec 17.7.201 Developer Confers With Development Review Committee

The developer(s) shall meet with the Development Review Committee to discuss the basic concept of the proposed large scale development and to obtain information pertaining to the general plan and zoning classification of the area proposed for subdivision, city requirements and standards for design and construction of streets, utilities and other requirements affecting the land proposed to be subdivided. The purpose of the conference(s) is to provide informal assistance to the developer(s) in the preparation of the plans early in the process. The Development Review Committee may suggest changes in the proposed layout so the project may be more fully consistent with the city's general plan and also with the city's development regulations and policies. The recommendations from the Development Review Committee prior to the submission of a formal application shall be purely advisory and in no way shall the conference be construed to constitute approval of the plan.

Sec 17.7.202 Developer Prepares Preliminary Plats And Supporting Materials And Submits To Staff

A. After the pre-submittal conference the developer shall prepare and submit to the Development Services Department a preliminary plat submittal packet containing the following:
B. An application for approval of the large scale development project, together with copies of plats and materials showing the layout of the proposed project, including the location, size and dimensions of all lots; the placement and cross-section of all proposed streets; the location of all public utility easements; the intended treatment of drainage; and the intended treatment of any other essential features of the proposed project
C. A geotechnical report for the project area
D. Evidence of payment of the required review fee.
E. Evidence of water right proposed to be conveyed to the city.
F. Evidence of review of the proposed project by required public utility agencies.
G. Other materials deemed by city staff to be essential for an adequate understanding of the proposed project. The scale of the plans, content of the materials, number of copies, time of submittal and other particulars regarding the materials provided in support of an application for approval shall be as established, from time to time, by action of the planning commission.

Sec 17.7.203 DRC Reviews Preliminary Plats, Documents, And Statements

Upon receipt of the preliminary plat submittal packet from the developer the Development Services Director or assignee shall review the plans, documents, and materials for completeness and for conformance with city requirements, standards and general plan, and submit said plans, documents, and statements or portions thereof to the Development Review Committee for their

review and recommendation.

Sec 17.7.204 Development Review Committee Reports Results Of Review Of Preliminary Plats, Documents, And Statements To Developer

A. The Development Review Committee shall conduct a Development Review Conference to review and discuss the materials submitted by the developer.
B. Upon completion of review, the Development Review Committee shall provide the results of the review and comments to the Development Services Director or assignee. The results and comments shall be compiled and provided to the developer.
C. The Development Review Committee may suggest changes in order for the preliminary plat materials to be more consistent with the objectives of the general plan and development regulations and policies.

Sec 17.7.206 Development Review Committee Takes Final Action On Preliminary Plat And Supporting Materials

A. After considering the recommendation of all DRC members, the DRC may table the matter, approve, or grant approval, including granting approval upon conditions stated.

B. Approval by of the Preliminary Plat shall not constitute final approval of the project, but shall be deemed as approval to proceed with preparation of a final plat, detailed engineering and supporting materials.

Sec 17.7.207 Developer Prepares And Submits Final Plats, Detailed Engineering Plans And Supporting Material And Submits To Staff

A. After receiving authorization to proceed, the developer shall prepare and submit to the Development Services Director a final plat submittal packet containing the following:
B. Application for final plan/plat approval.
C. A reproducible drawing of the proposed final plat prepared in a format approved for recording at the office of the Utah County Recorder.
D. Copies of the detailed engineering documents and other supporting materials.
E. An itemized engineers estimate of the cost of constructing the required improvements.
F. Copy of project documentation.
G. Evidence of payment of review and recording fee.
H. Documents conveying water rights to city.
I. Evidence that any boundary conflicts with adjacent properties are fully resolved.
J. Other materials deemed by city staff to be essential for an adequate understanding of the proposed project.

The scale of the final plan/plat, content of the materials, number of copies, time of submittal and

other particulars regarding the materials provided in support of an application for final plan/plat approval shall be as established, from time to time, by action the Development Services Director.

Sec 17.7.208 DRC Reviews Final Plans/Plats, Detailed Engineering And Supporting Materials

Upon receipt of the submission from the developer the Development Services Director or assignee shall review the plans/plats and supporting materials for accuracy and completeness. Upon determination of a complete application, the plans, documents and statements, or portions thereof, shall then be provided to the Development Review Committee and applicable public agencies for review of compliance with Federal, State and local laws and regulations, city requirements and standards, and the general plan.

Sec 17.7.209 Development Review Conference - DRC Reports - Results Of Review Of Final Plans/plat, Detailed Engineering Plans And Supporting Materials To Developer

A. The Development Review Committee shall conduct a Development Review Conference to review and discuss the materials submitted by the developer.
B. Upon completion of review, the Development Review Committee shall provide the results of the review and comments to the Development Services Director or assignee. The results and comments shall be compiled and provided to the developer.
C. The Development Review Committee may suggest changes to the submittal materials so that the final plat will conform with the development regulations and policies of the city and the terms of preliminary plat approval.

Sec 17.7.211 Development Review Committee Acts On Final Plan(s)/Plat(s) And Supporting Materials

A. When the final plan(s)/plat(s) and supporting materials required for approval have been completed in final form, the Development Review Committee shall act on the final plat(s) and supporting materials. After considering the recommendation of all DRC members, the DRC may table the matter, approve, or grant approval, including granting approval upon conditions stated. Approval of the final plat(s) shall be made only upon a finding that:
    1. The final plan(s)/plat(s) and supporting materials conform with terms of the preliminary approval.
    2. The final plan(s)/plat(s) complies with all city requirements and standards relating to large scale developments.
    3. The detailed engineering plans and materials comply with the city standards and policies.
    4. The estimates of cost of constructing the required improvements are commensurate to market costs, as verified by the City Engineer.

5. The water rights conveyance documents have been provided.

B. If approved, the City Administrator, Community Development Services Director, and City Engineer shall sign the Final Plat(s) upon completion of all conditions. If any conditions are attached, the Final Plat(s) or construction drawings shall be amended to reflect such changes and an accurate Final Plat(s) shall be submitted to the City, prior to signing.

Project Conditions of Approval

1. Correct the scale as commented.

Findings of Fact

1. The Commercial Site Plan MEETS the requirements of Section 17.7.200.

Project Map



Standards Conditions of Approval

APPLICANT is responsible and shall submit/post/obtain all necessary documentation and evidence to comply with these Standard Conditions of Approval prior to any platting, permitting, or any other form of authorization by the City including plat recording or other property conveyance to the City and prior to scheduling a pre-construction meeting. All recording shall take place at the Utah County Recorder's Office.

1. **Title Report:** Submit an updated Title Report not older than 30 days or other type of appropriate verification that shows all dedications to the City are free and clear of encumbrances, taxes, or other assessments.

2. **Property Taxes and Liens:** Submit evidence that all the property taxes, for the current and/or previous years, liens, and agricultural land use roll over fees have been paid in full.
3. **Water Rights:** Submit evidence that all the required water rights have been conveyed to American Fork City.
4. **Performance Guarantee:** Post a performance guarantee for all required public and essential common improvements.
5. **Easements and Agreements:** Submit/record a long-term Storm Water Pollution Prevention Maintenance Agreement signed and dated by the property owner and any required easement documentation.
6. **Land Disturbance Permit:** Obtain a Land Disturbance Permit.
7. **Compliance with the Plan Review Comments:** All plans and documents shall comply with all the Technical Review Committee comments and the City Engineer's final review.
8. **Commercial Structure:** Record an Owner Acknowledgment and Utility Liability Indemnification if the proposed building is a multi-unit commercial structure served by a single utility service.
9. **Sensitive Lands:** Record all applicable documents required for compliance with the City's Sensitive Lands Ordinance.
10. **Utility Notification Form:** Submit a Subdivision Utility Notification Form.
11. **Professional Verification:** Submit final stamped construction documentation by all appropriate professionals.
12. **Fees:** Payment of all development, inspection, recording, streetlight, and other project related fees.
13. **Mylar:** Submit a Mylar. All plats will receive final verification of all formats, notes, conveyances, and other items contained on the plat by City staff (recorder, legal, engineer, GIS, planning).

Staff Recommendation

The Commercial Site Plan MEETS the requirements of Section 17.6.101. Staff recommends APPROVING the application WITH CONDITIONS.

Potential Motions – Commercial Site Plan

Approval

Madame Chair, I move to approve the proposed Commercial Site Plan, located at approximately 1200 N 500 E, American Fork City, in the Public Facilities (PF) zone, subject to any conditions found in the staff report.

Denial

Madame Chair, I move to deny the proposed Commercial Site Plan, located at approximately 1200 N 500 E, American Fork City, in the Public Facilities (PF) zone.

Table

Madame Chair, I move to table action for the proposed Commercial Site Plan, located at approximately 1200 N 500 E, American Fork City, in the Public Facilities (PF) zone and instruct staff/developer to……..

GENERAL NOTES

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

SITE INFORMATION

LATITUDE:	40° 23' 54.85" N (40.39857)
LONGITUDE:	111° 47' 7.51" W (-111.78542)
GROUND ELEVATION:	4722' (NAVD 88)
JURISDICTION:	AMERICAN FORK CITY
ZONING:	--
PARCEL #:	120640032
COUNTY:	UTAH
EXISTING USE:	UNMANNED
POWER COMPANY:	ROCKY MOUNTAIN POWER

No comments

American Fork City Development Review

Planning and Zoning Reviewed copperman 11/05/2024	Engineering Division Reviewed rburkhill 11/06/2024
	Fire Department Reviewed M. Sacco 10/31/2024
	Streets Division Reviewed ehyde 11/06/2024

No comments

AT&T

SIUT002417
HIGHLAND 2

1200 NORTH 550 EAST
AMERICAN FORK, UT 84003

IWM JOB NUMBER	PACE JOB NUMBER	ORACLE PTN
WSUTH0041489	**MRUTH068428**	**3752A1C50N**
WSUTH0041377	MRUTH067836	**3752A1C4NF**
WSUTH0041403	MRUTH067874	**3752A1C3G2**
WSUTH0041438	MRUTH068142	**3752A1C3T2**
WSUTH0041266	MRUTH068151	**3752A1C4XX**
WSUTH0041331	MRUTH068197	**3752A1C3RW**

Next Step
Approved with Conditions
Proceed to the Development Review Committee
11.11.2024

FA: 10103880 USID: 49298

SCOPE OF WORK

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

ANTENNA LEVEL:
- REMOVE (6) STACKED PANEL ANTENNAS
- REMOVE (15) RRUS
- RELOCATE (3) PANEL ANTENNAS
- RELOCATE (3) PIPE MOUNTS
- INSTALL (3) AIR6419 B77D ANTENNAS
- INSTALL (3) AIR6419 B77G ANTENNAS
- INSTALL (3) 4415 B30 RRUS
- INSTALL (3) 4490 B5/B12A RRUS
- INSTALL (3) 4890 B25/B66 RRUS
- INSTALL (3) 4478 B14 RRUS
- INSTALL (6) DUAL STANDOFF RRU MOUNT
- INSTALL (3) 2.5SCH40, 10'-0" LONG PIPE MOUNTS

EQUIPMENT LEVEL:
- REMOVE (3) CONVERTERS
- INSTALL (1) CONVERTER EXPANSION SHELF
- INSTALL (11) CONVERTERS
- INSTALL (1) 6673 BASEBAND
- INSTALL (2) 6651 BASEBAND
- INSTALL (1) 6610 BASEBAND
- INSTALL (15) 50A BREAKERS
- INSTALL (5) 25A BREAKERS
- INSTALL (3) 15A BREAKERS
- INSTALL (1) 5A BREAKER

HVAC UNITS:
- EXISTING (2) HVAC UNIT ATTACHED EQUIPMENT SHELTER

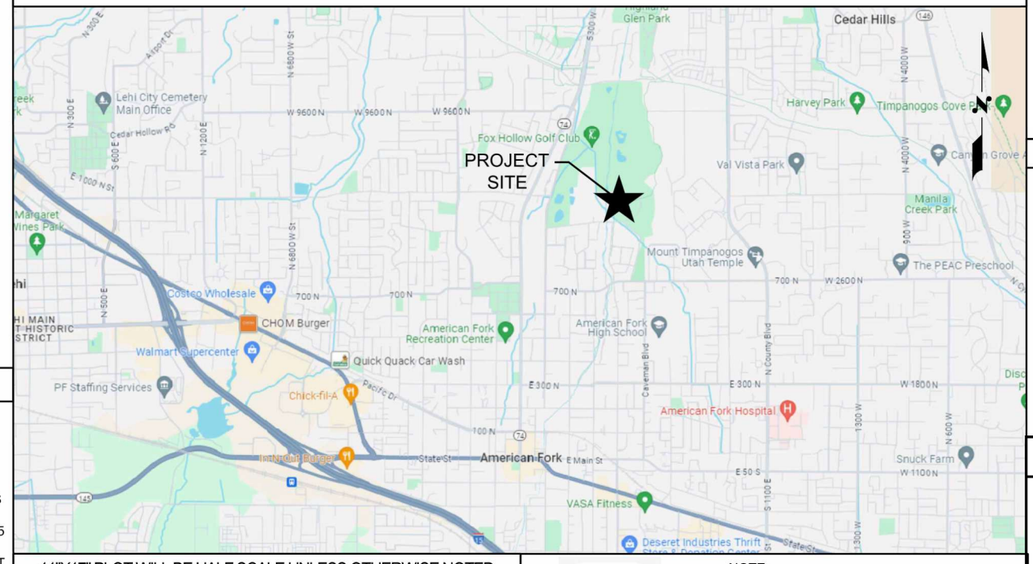
EXISTING ANTENNA COUNT:	15
FINAL ANTENNA COUNT:	12
EXISTING RRU COUNT:	15
FINAL RRU COUNT:	12

DRIVING DIRECTIONS

FROM SALT LAKE CITY INTERNATIONAL AIRPORT:

HEAD NORTH ON TERMINAL DR. SLIGHT RIGHT. USE THE MIDDLE LANE TO TURN RIGHT TOWARD N 3700 W. USE THE LEFT LANE TO TURN SLIGHTLY RIGHT ONTO N 3700 W. N 3700 W TURNS SLIGHTLY RIGHT AND BECOMES W CROSSBAR RD. TAKE THE RAMP ONTO TERMINAL DR. USE THE LEFT 2 LANES TO TURN SLIGHTLY LEFT ONTO THE I-80 E/I-15/I-215 RAMP TO SALT LAKE CITY/OGDEN/PROVO. MERGE WITH I-80 E. USE ANY LANE TO MERGE WITH I-15 S/I-80 E TOWARD CHEYENNE/LAS VEGAS. CONTINUE STRAIGHT ONTO I-15 S. USE THE RIGHT LANE TO TAKE EXIT 278 TO MERGE WITH UT-145 W/W MAIN ST TOWARD AMERICAN FORK. USE THE RIGHT LANE TO MERGE WITH UT-145 W/W MAIN ST. CONTINUE ONTO UT-145 E/W MAIN ST. CONTINUE TO FOLLOW W MAIN ST. PASS BY MATTRESS FIRM AMERICAN FORK (ON THE RIGHT). TURN LEFT ONTO N 100 E. TURN RIGHT ONTO E 600 N ST. TURN LEFT ONTO N 200 E. TURN RIGHT ONTO E 980 N ST. DESTINATION WILL BE ON LEFT.

VICINITY MAP



11"X17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

Blue Stakes of Utah 811

NOTE:
48 HOURS PRIOR TO DIGGING, CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES TO LOCATE ALL UNDERGROUND UTILITIES

DRAWING INDEX

SHT NO.	DESCRIPTION
T-1	TITLE SHEET 1
N-1	GENERAL NOTES
N-2	GENERAL NOTES
A-1	COMPOUND PLAN 1
A-2	EQUIPMENT PLANS
A-3	ANTENNA PLANS
A-4	ANTENNA SCHEDULES
A-5	ELEVATIONS
A-6	DETAILS
A-7	DETAILS
A-8	DETAILS 1
G-1	GROUNDING DETAILS

PROJECT TEAM

CLIENT REPRESENTATIVE
SMARTLINK
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401
CONTACT: ALEXANDER HINTON
EMAIL: Alexander.Hinton@smartlinkgroup.com

PROPERTY OWNER
AMERICAN FORK CITY
31 N CHURCH ST
AMERICAN FORK, UT 84003

TOWER OWNER
AT&T

PROJECT OWNER
AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

PROFESSIONAL OF RECORD
MORRISON HERSHFIELD STANTEC
5100 SW MACADAM, SUITE 500
PORTLAND, OR 97239
CONTACT: LANCE COOKE
PHONE: (360) 487-9132
EMAIL: lcooke@morrisonhershfield.com

CODE COMPLIANCE

1. 2021 INTERNATIONAL BUILDING CODE (IBC)
2. 2020 NATIONAL ELECTRICAL CODE (NEC)
3. 2021 INTERNATIONAL MECHANICAL CODE (IMC)
4. 2021 INTERNATIONAL PLUMBING CODE (IPC)

APPROVALS

AT&T RF ENGINEER:		DATE:
AT&T CONSTRUCTION:		DATE:
AT&T SAM:		DATE:
LANDLORD:		DATE:
LANDLORD:		DATE:

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY S. LANGE COOKE
2024.07.24 12:35:47-07'00'
STATE OF UTAH
EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:
smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:
AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:
MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
TITLE SHEET

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No.: T-1

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

GENERAL CONSTRUCTION NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR/CM - SMARTLINK
   SUB-CONTRACTOR - PER TRADE
   OWNER - AT&T WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

ANTENNA MOUNTING

40. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
46. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
47. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
48. JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
49. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
50. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.

TORQUE REQUIREMENTS

51. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
52. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
    A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
    B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH
EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:
smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:
AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:
MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
GENERAL NOTES

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. N-1

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FGD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

FIBER & POWER CABLE MOUNTING

53. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.

54. THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.

55. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

56-61 RESERVED FOR ADDITIONAL NOTES.

COAXIAL CABLE NOTES

62. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.

63. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.

64. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.

65. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'-0".

66. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.

67. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.

68. CONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

69. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

70. CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.

72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.

73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.

74. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.

75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
    A. TEMPERATURE SHALL BE ABOVE 50° F.
    B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
    C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
    D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.

76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
    A. GROUNDING AT THE ANTENNA LEVEL.
    B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
    C. GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
    D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
    E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.

77. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
GENERAL NOTES

Project No.: 240198300/SML-077

Designer:	Date:
IO	04/19/24
Drawn By:	Checked By:
KN	MG
PM Review:	Client Approval
GLC	
Issue No.:	Drawing No.
1	N-2

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

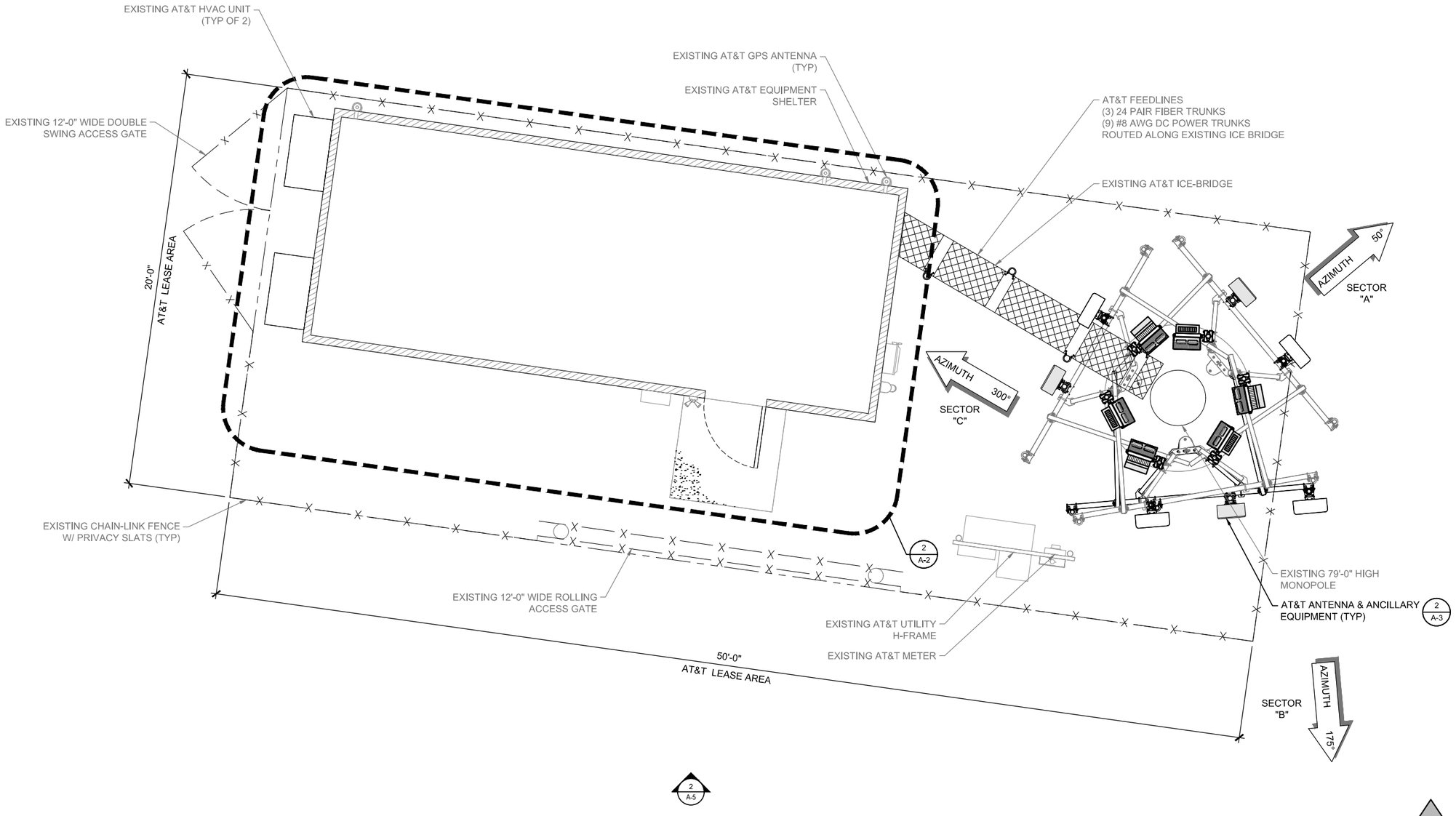
A B C

THIS IS NOT A SURVEY

ALL INFORMATION AND TRUE NORTH HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND ARE APPROXIMATE.

NOTE:
FOR SIGNAGE DETAILS REFER TO 4/A-8 SHEET

1



COMPOUND PLAN

0 1' 2' 3'

SCALE: 3/8"=1'-0" (22x34)
(OR) 3/16"=1'-0" (11x17)

1

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink

10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T

7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD

Stantec

1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:

SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:

COMPOUND PLAN

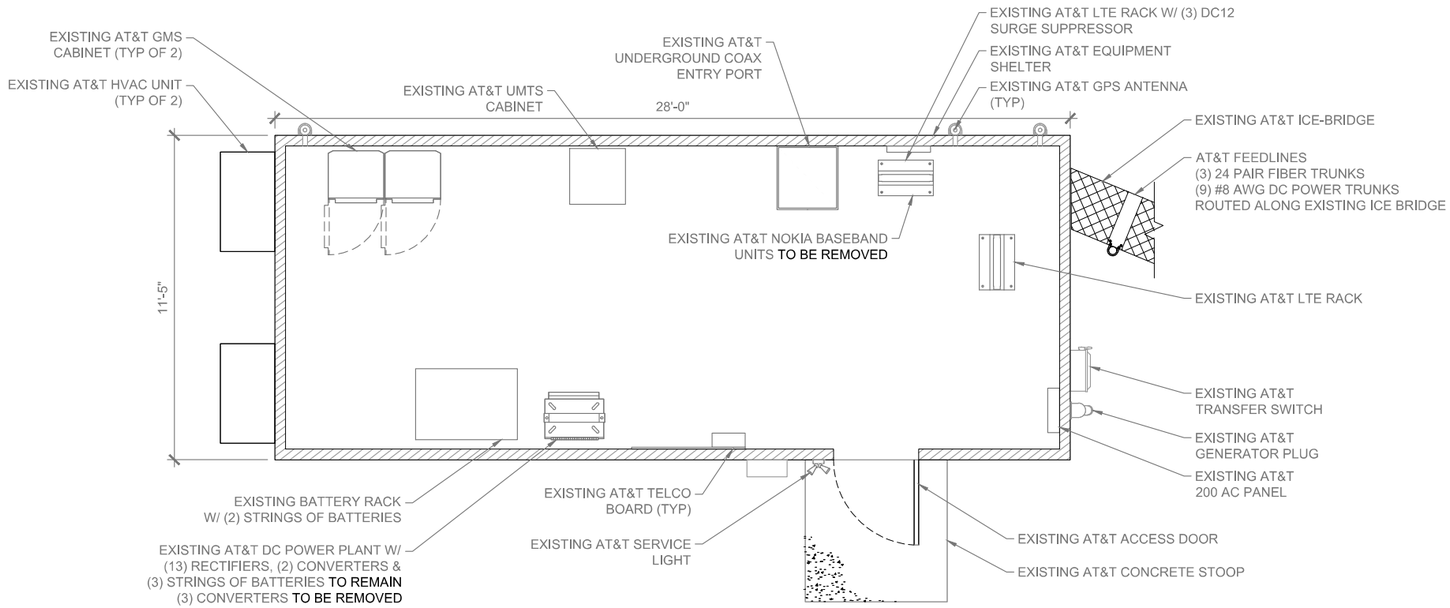
Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-1

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

A B C



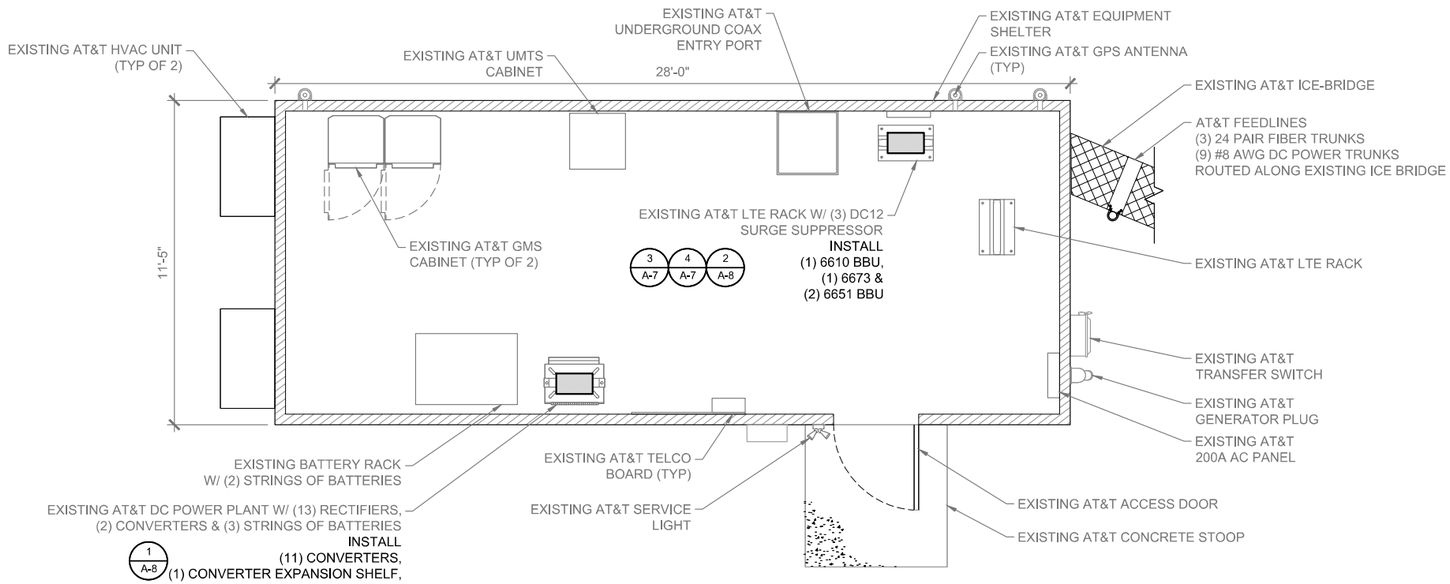
PLAN NORTH

EXISTING EQUIPMENT PLAN

0 1' 2' 3'

SCALE: 3/8"=1'-0" (22x34)
(OR) 3/16"=1'-0" (11x17)

1



PLAN NORTH

PROPOSED EQUIPMENT PLAN

0 1' 2' 3'

SCALE: 3/8"=1'-0" (22x34)
(OR) 3/16"=1'-0" (11x17)

2

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
EQUIPMENT PLANS

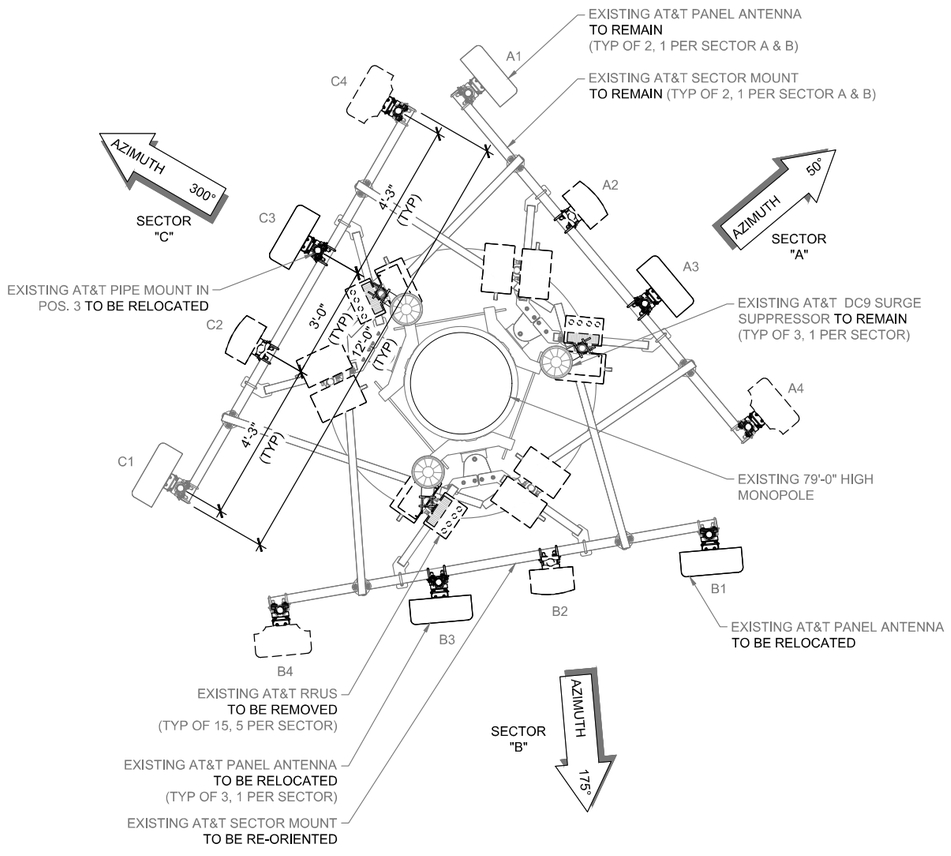
Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-2

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

A B C



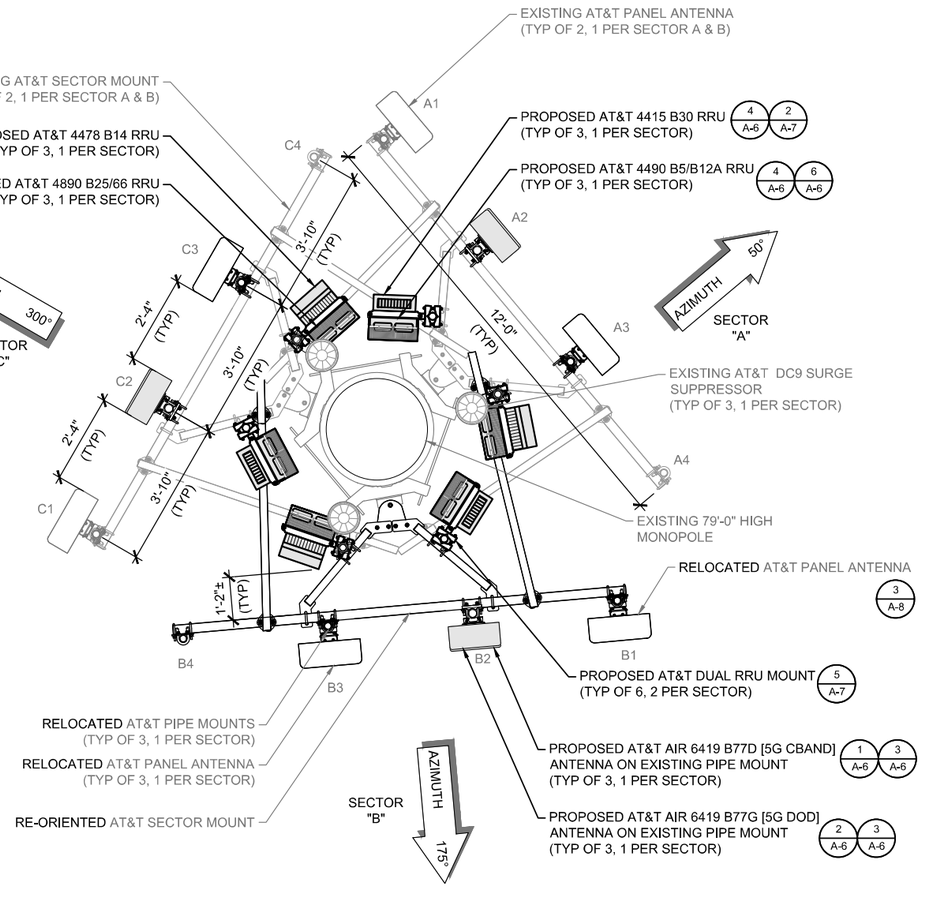
EXISTING ANTENNA PLAN

0 6" 1' 2'

SCALE: 1/2"=1'-0" (22x34)
(OR) 1/4"=1'-0" (11x17)

1

NOTE: EXISTING BETA SECTOR BETA ARM TO BE ROTATED 15 DEGREE CLOCKWISE TO BE PARALLEL WITH BETA ANTENNAS AZIMUTHS



PROPOSED ANTENNA PLAN

0 6" 1' 2'

SCALE: 1/2"=1'-0" (22x34)
(OR) 1/4"=1'-0" (11x17)

2

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink

10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T

7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD

Stantec

1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:

SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:

ANTENNA PLANS

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-3

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

A B C

EXISTING ANTENNA CONFIGURATION AND SCHEDULE

	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	TRANSMISSION LINES
SECTOR A	-	A1	50°	78'-0"	NNH4-65C-R6	-	(1) AHLBA RRH 4T4R B12/14 320W (1) AHFIB RRH 4T4R B25/66 320W	(1) DC9-48-6024-8C-EV	FIBER TRUNKS (3) RFFT -48SM-001-50M DC POWER TRUNKS (9) PWRT- 608 (8 GAUGE)
	-	A2	50°	78'-0"	SBJAH4-1D65C-DL	-	-		
	-	A3	50°	78'-0"	NNH4-65C-R6	-	(1) RRH 4x25 WCS-4R (1) AHCA RRH 4T4R B5 160W (1) AHFIB RRH 4T4R B25/66 320W		
	5G C BAND	A4	50°	80'-0"	AEQU	-	-		
	5G DOD			76'-0"	AEQK				
SECTOR B	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	
	-	B1	175°	78'-0"	NNH4-65C-R6	-	(1) AHLBA RRH 4T4R B12/14 320W (1) AHFIB RRH 4T4R B25/66 320W	(1) DC9-48-6024-8C-EV	
	-	B2	175°	78'-0"	SBJAH4-1D65C-DL	-	-		
	-	B3	175°	78'-0"	NNH4-65C-R6	-	(1) RRH 4x25 WCS-4R (1) AHCA RRH 4T4R B5 160W (1) AHFIB RRH 4T4R B25/66 320W		
	5G C BAND	B4	175°	80'-0"	AEQU	-	-		
	5G DOD			76'-0"	AEQK				
SECTOR C	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	
	-	C1	300°	78'-0"	NNH4-65C-R6	-	(1) AHLBA RRH 4T4R B12/14 320W (1) AHFIB RRH 4T4R B25/66 320W	(1) DC9-48-6024-8C-EV	
	-	C2	300°	78'-0"	SBJAH4-1D65C-DL	-	-		
	-	C3	300°	78'-0"	NNH4-65C-R6	-	(1) RRH 4x25 WCS-4R (1) AHCA RRH 4T4R B5 160W (1) AHFIB RRH 4T4R B25/66 320W		
	5G C BAND	C4	300°	80'-0"	AEQU	-	-		
	5G DOD			76'-0"	AEQK				

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE

	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	TRANSMISSION LINES
SECTOR A	-	A1	50°	78'-0"	NNH4-65C-R6	-	**(1) 4415 B30 (1) 4490 B5/B12A**	(1) DC9-48-6024-8C-EV	FIBER TRUNKS (3) RFFT -48SM-001-50M DC POWER TRUNKS (9) PWRT- 608 (8 GAUGE)
	5G CBAND	**A2**	**50°**	**80'-0"**	**AIR6419 B77D**	-	-		
	5G DOD			**76'-0"**	**AIR6419 B77G**				
	-	A3	50°	78'-0"	NNH4-65C-R6	-	**(1) 4890 B25/B66 (1)4478 B14**		
	-	A4	-	-	-	-	-		
SECTOR B	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	
	-	B1	175°	78'-0"	NNH4-65C-R6	-	**(1) 4415 B30 (1) 4490 B5/B12A**	(1) DC9-48-6024-8C-EV	
	5G CBAND	**B2**	**175°**	**80'-0"**	**AIR6419 B77D**	-	-		
	5G DOD			**76'-0"**	**AIR6419 B77G**				
	-	B3	175°	78'-0"	NNH4-65C-R6	-	**(1) 4890 B25/B66 (1)4478 B14**		
	-	B4	-	-	-	-	-		
SECTOR C	CARRIER / SPECTRUM	ANTENNA POSITION	AZIMUTH	RAD CENTER	MODEL	TMA	RRU	OTHER EQUIPMENT	
	-	C1	300°	78'-0"	NNH4-65C-R6	-	**(1) 4415 B30 (1) 4490 B5/B12A**	(1) DC9-48-6024-8C-EV	
	5G CBAND	**C2**	**300°**	**80'-0"**	**AIR6419 B77D**	-	-		
	5G DOD			**76'-0"**	**AIR6419 B77G**				
	-	C3	300°	78'-0"	NNH4-65C-R6	-	**(1) 4890 B25/B66 (1)4478 B14**		
	-	C4	-	-	-	-	-		

NOTE:
REMOVE ALL UNNECESSARY HARDWARE AND TMA's TO MAKE SPACE FOR PROPOSED ANTENNAS & ANCILLARY EQUIPMENT

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH
EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:
smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:
AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:
MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

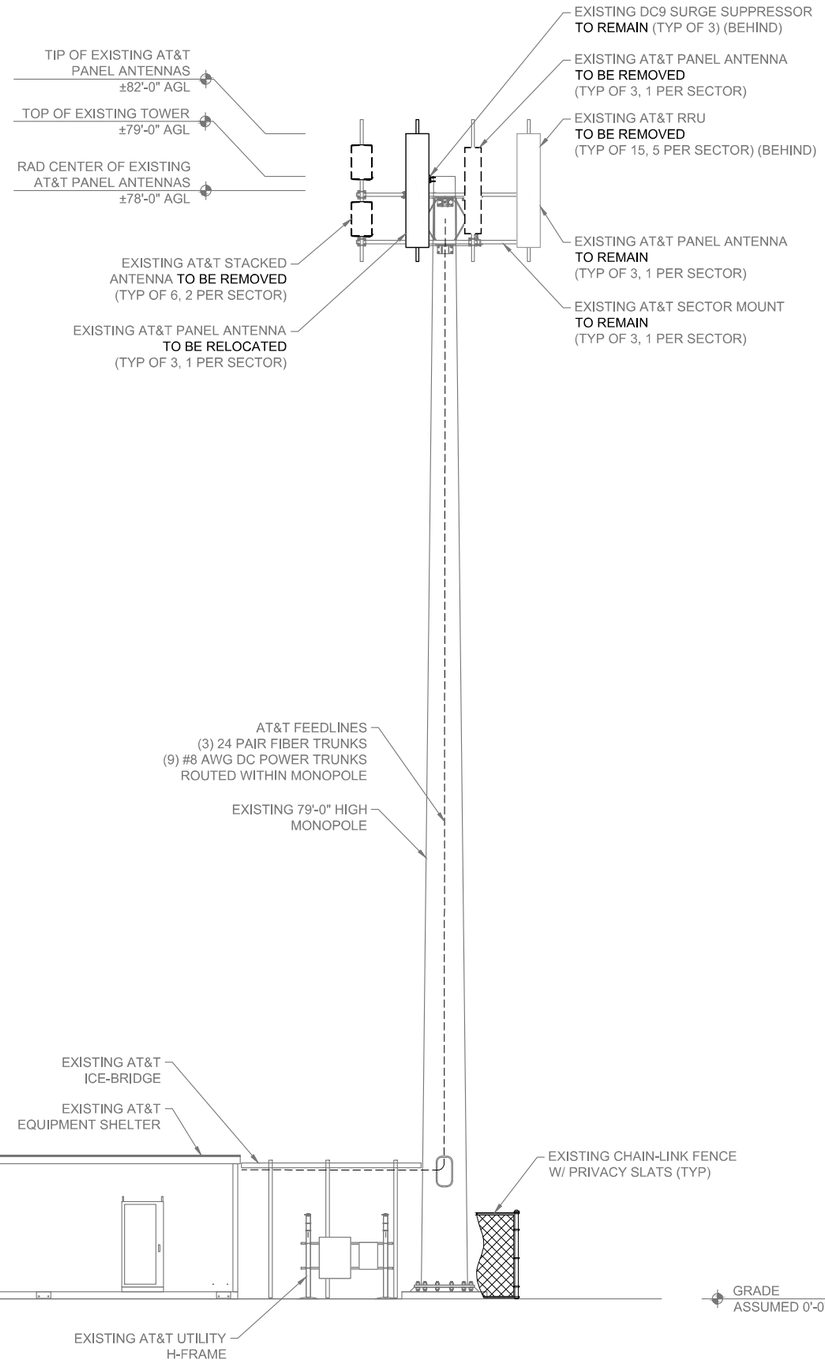
Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
ANTENNA SCHEDULES

Project No.: 240198300/SML-077
Designer: IO
Date: 04/19/24
Drawn By: KN
Checked By: MG
PM Review: GLC
Client Approval
Issue No.: 1
Drawing No. A-4

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

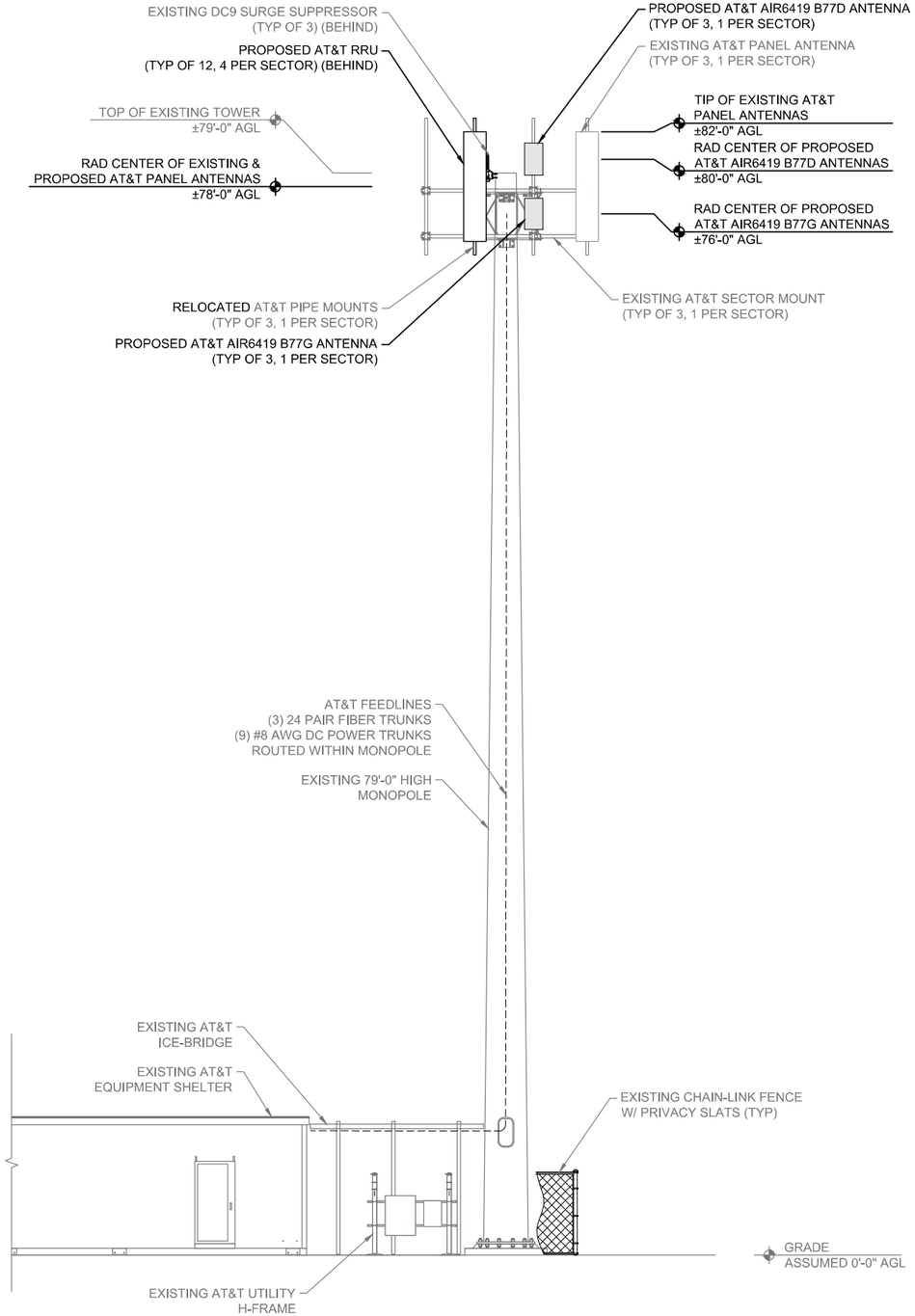


EXISTING SOUTH ELEVATION

0 1.5' 3' 5'

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

1



PROPOSED SOUTH ELEVATION

0 1.5' 3' 5'

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

2

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink

10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T

7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD

Stantec

1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:

SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:

ELEVATIONS

Project No.: 240198300/SML-077

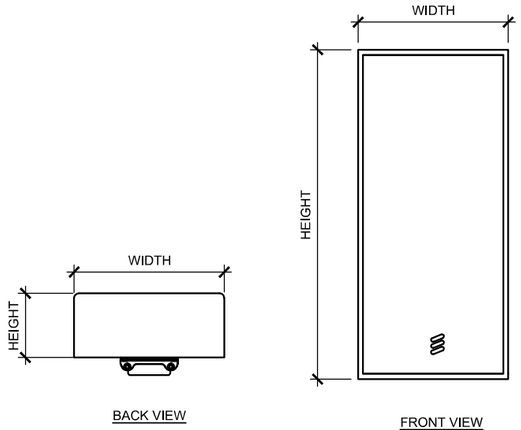
Designer:	Date:
IO	04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-5

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

B A

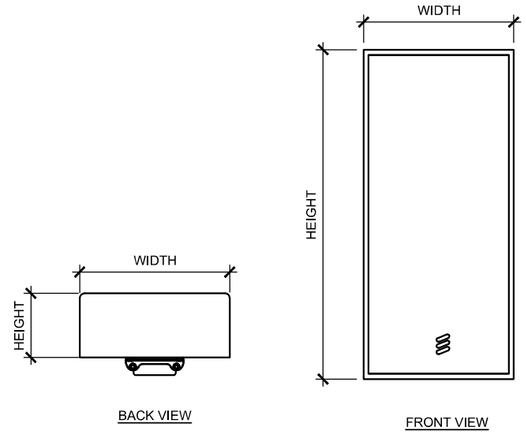


ERICSSON AIR6419 B77D

SIZE AND WEIGHT TABLE

HEIGHT	WIDTH	DEPTH	WEIGHT
28.20"	16.10"	7.3"	66.2 LBS

ANTENNA SPECIFICATIONS — SCALE N.T.S. — 1

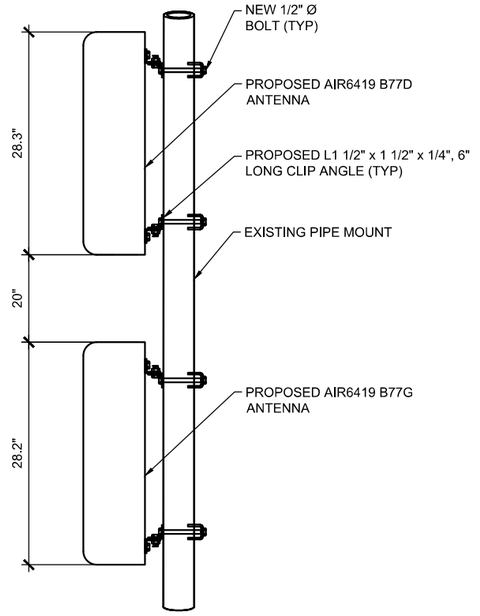


ERICSSON AIR6419 B77G

SIZE AND WEIGHT TABLE

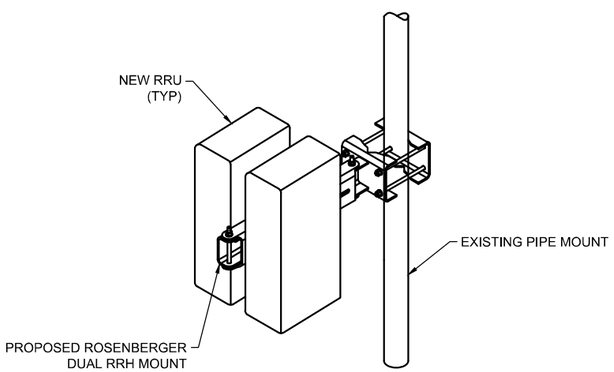
HEIGHT	WIDTH	DEPTH	WEIGHT
28.3"	16.1"	7.9"	66.1 LBS

ANTENNA SPECIFICATIONS — SCALE N.T.S. — 2

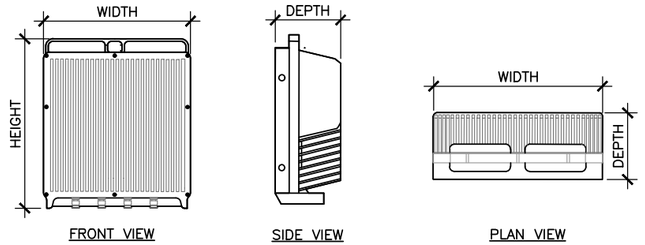


ERICSSON AIR6419 B77D & AIR6419 B77G

ANTENNA MOUNTING DETAIL — SCALE N.T.S. — 3



RRU MOUNTING SPECIFICATIONS — SCALE N.T.S. — 4

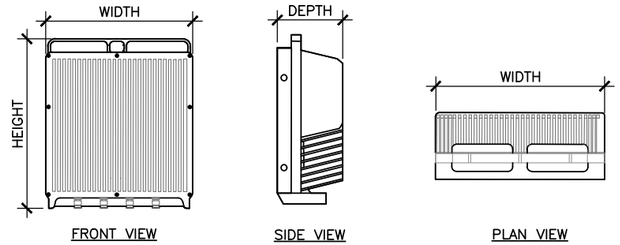


ERICSSON 4890 (B25/B66)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
15.67"	7.05"	20.59"	67.2 LBS

RRU SPECIFICATIONS — SCALE N.T.S. — 5



ERICSSON 4490 B5/B12A

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
15.6"	7.0"	20.6"	65.0 LBS

RRU SPECIFICATIONS — SCALE N.T.S. — 6

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH
EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

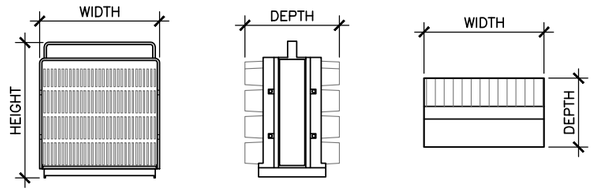
Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
DETAILS

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-6

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FGD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

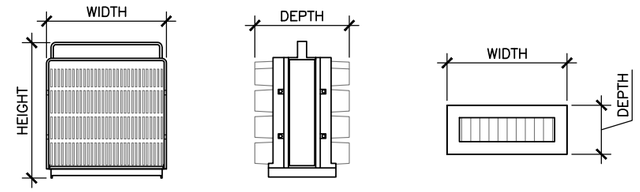


FRONT VIEW SIDE VIEW PLAN VIEW

ERICSSON 4478 (B14)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
13.40"	8.26"	18.1"	59.40 LBS



FRONT VIEW SIDE VIEW PLAN VIEW

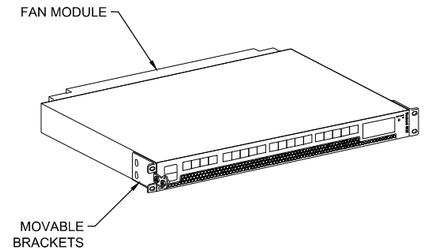
ERICSSON 4415 (B30)

SIZE AND WEIGHT TABLE

WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
13.4"	5.9"	16.5"	47.4 LBS

ERICSSON BASEBAND 6610:

DIMENSIONS, WxDxH:	19"x14"x2.6"
NOMINAL OPERATING VOLTAGE:	-48 VDC
OPERATING VOLTAGE RANGE:	-48 TO -58.5 VDC
OPERATING TEMPERATURE:	0 TO +55°C
TOTAL WEIGHT:	<10 kg



NOTE:
CONSTRUCTION TO REFER TO AT&T UPGRADE KIT GUIDELINES WHEN INSTALLING THE RBS 6610 IN THE RACK.

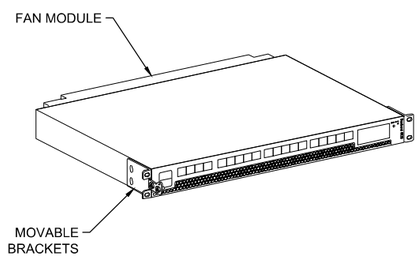
RRU SPECIFICATIONS | SCALE N.T.S. | 1

RRU SPECIFICATIONS | SCALE N.T.S. | 2

BASEBAND 6610 SPECIFICATIONS | SCALE N.T.S. | 3

ERICSSON BASEBAND 6651:

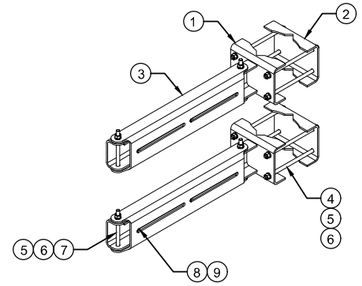
DIMENSIONS, WxDxH:	19"x13.8"x1.75"
NOMINAL OPERATING VOLTAGE:	-48 VDC
OPERATING VOLTAGE RANGE:	-38 TO -58.5 VDC
OPERATING TEMPERATURE:	0 TO +55°C
TOTAL WEIGHT:	6.5 kg | 14.3 lbs
BREAKER SIZE:	30A

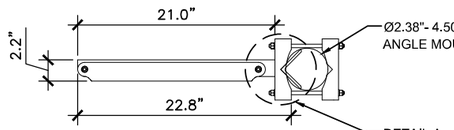


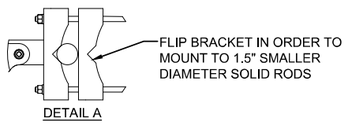
NOTE:
CONSTRUCTION TO REFER TO AT&T UPGRADE KIT GUIDELINES WHEN INSTALLING THE RBS 6651 IN THE RACK.

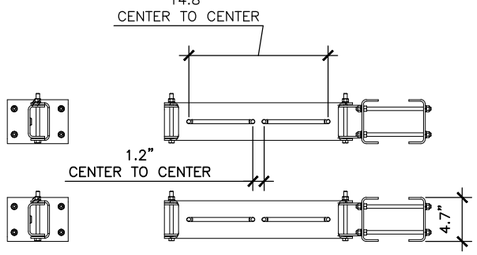
RSS PART # D218RRUDSM

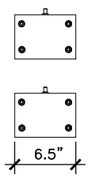
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	RRUDSM.01	MOUNTING ARM	2	8.92 LBS
2	RRUDSM.02	CLAMP PLATE	2	2.33 LBS
3	RRUDSM.03	SWIVEL MOUNT	2	6.60 LBS
4	GD03800	3/8"-16 UNCx8" GALV. THREADED BOLT	8	0.25 LBS
5	GWL-03	3/8" GALV LOCK WASHER	20	0.01 LBS
6	GN-03	3/8"-16 UNC GALV HEX NUT	28	0.02 LBS
7	GB-03505	3/8"x5" GALV BOLT	4	0.18 LBS
8	SWF03	3/8" SS FLAT WASHER	8	0.01 LBS
9	SWL-03	3/8" SS LOCK WASHER	8	0.01 LBS











BASEBAND 6651 SPECIFICATIONS | SCALE N.T.S. | 4

ROSENBERGER DUAL RRU MOUNT DETAIL | SCALE N.T.S. | 5

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
DETAILS

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. A-7

SCALE IS BASED ON 22" X 34" "D" SIZE

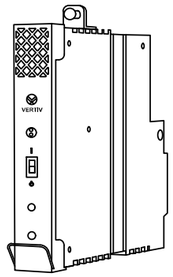
C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

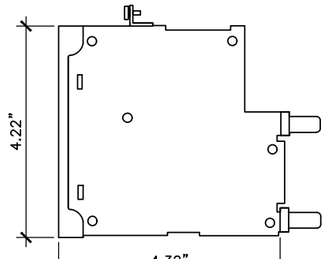
VERTIV eSure™ C48/58-1000 POWER EXTEND CONVERTER:

SPECIFICATIONS:

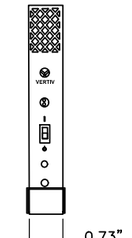
DIMENSIONS, LxWxH:	4.32"x0.73"x4.22"
WEIGHT:	0.45 kg | 1.0 lbs
DC INPUT	
VOLTAGE RANGE:	-42 VDC to -58 VDC
MAXIMUM CURRENT:	24.35 A
DC OUTPUT	
VOLTAGE:	-58 VDC
MAXIMUM POWER:	1000 W
MAXIMUM CURRENT:	17.2 A @ -58 VDC
PEAK EFFICIENCY:	98.6%
OPERATING:	-40°C TO +65°C / -40°F TO +149°F
STORAGE:	-40°C TO +70°C / -40°F TO +158°F
RELATIVE HUMIDITY:	0 TO 93% NON-CONDENSING
ALTITUDE:	-200 TO 10,000 FEET



ISOMETRIC VIEW



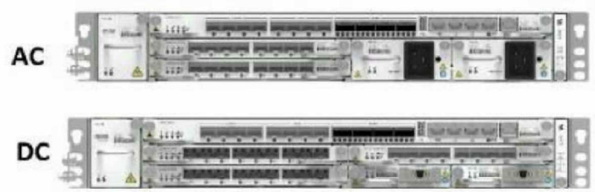
SIDE VIEW



FRONT VIEW

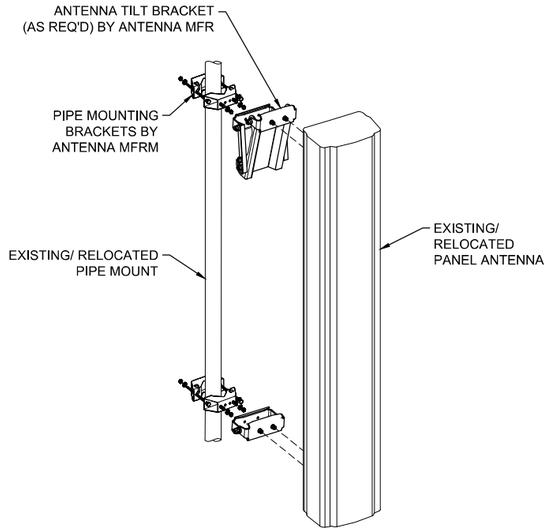
CONVERTER SPECIFICATIONS

SCALE N.T.S. | 1



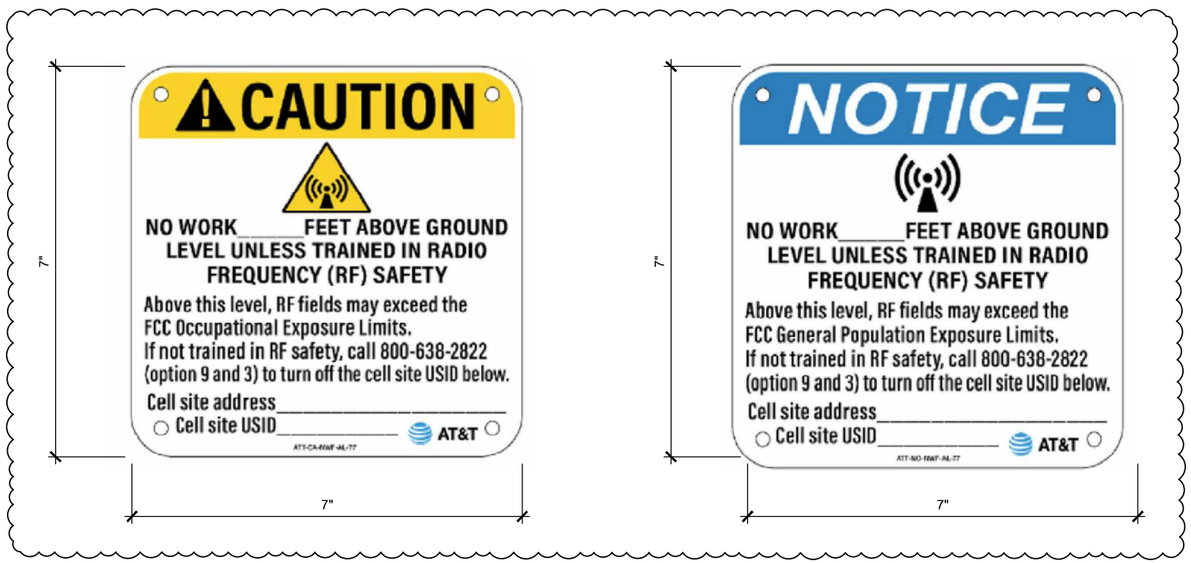
BASEBAND 6673 SPECIFICATIONS

SCALE N.T.S. | 2



ANTENNA MOUNTING DETAIL

SCALE N.T.S. | 3



1

SIGNAGE DETAILS

SCALE N.T.S. | 4

NOT USED

5

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:

Project No.: 240198300/SML-077

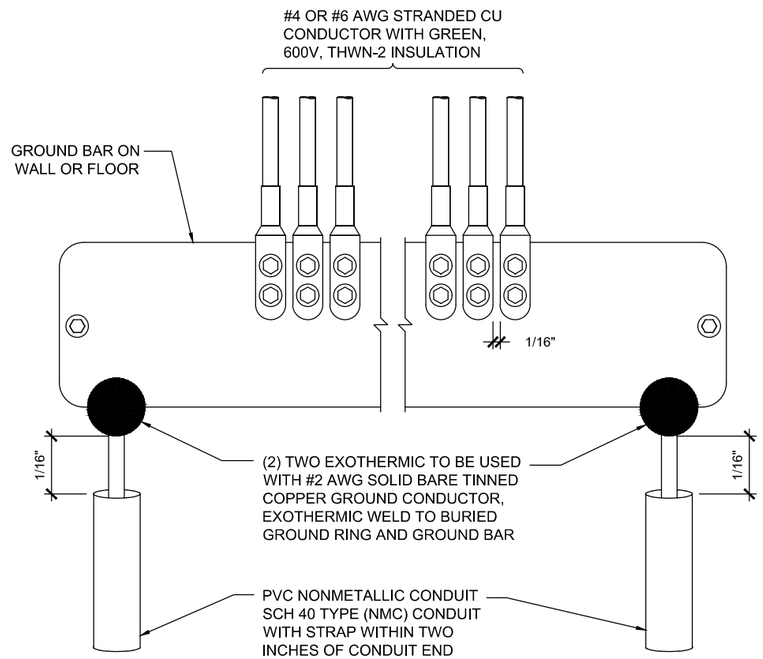
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1 (1)	Drawing No. A-8

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

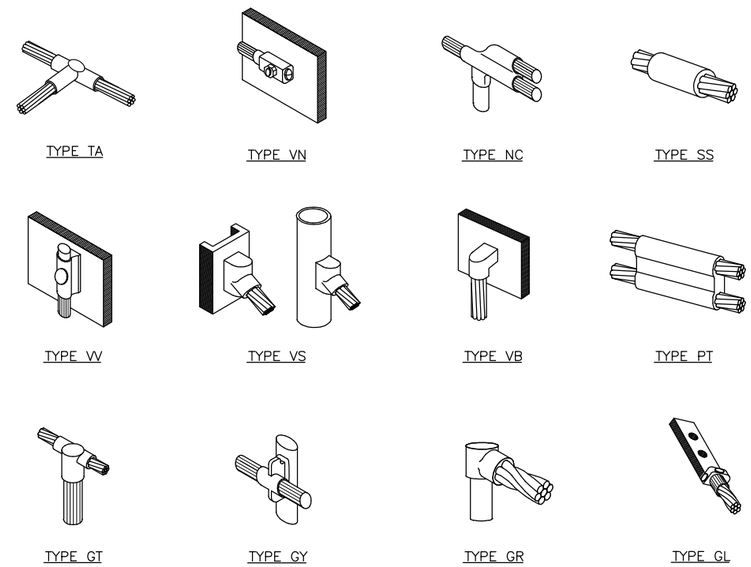
1 2 3 4 5 6

C B A



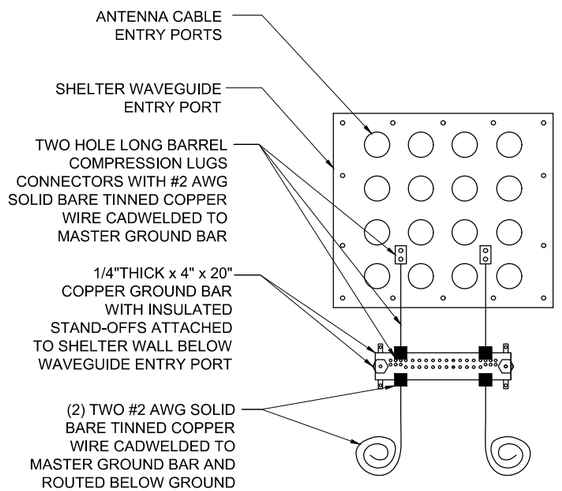
GROUND BAR DETAILS

SCALE N.T.S. 1



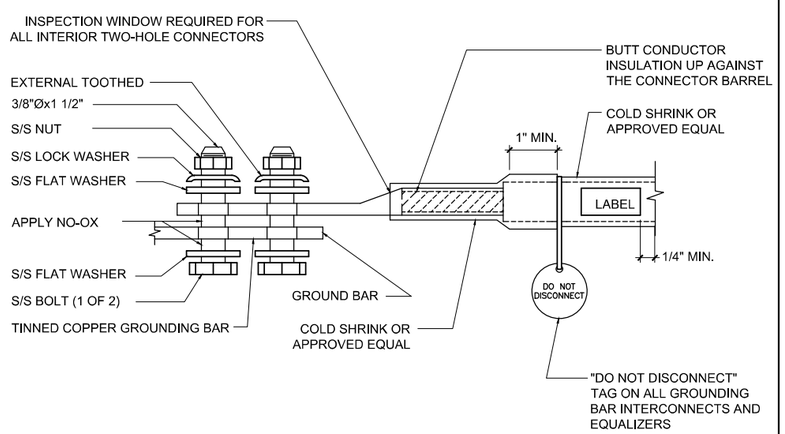
CADWELD DETAILS

SCALE N.T.S. 2



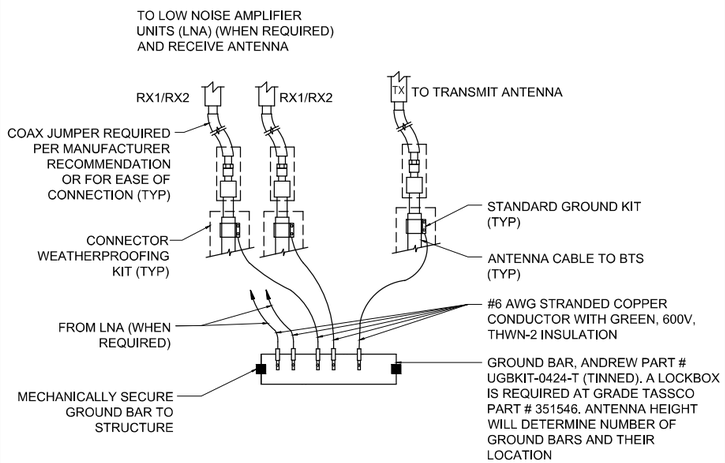
COAX GROUNDING KIT DETAIL

SCALE N.T.S. 3



EXTERIOR TWO HOLE LUG DETAIL

SCALE N.T.S. 4



ANTENNA GROUND BAR DETAIL

SCALE N.T.S. 5

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
STATE OF UTAH

EXP 3/31/25

No.	Date	Action
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:

smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:

AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:

MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
GROUNDING DETAILS

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 1	Drawing No. G-1

SCALE IS BASED ON 22" X 34" "D" SIZE

C:\Users\skadha\AppData\Local\Temp\AcPublish_15776\10103880_SIUT002417_FCD_Rev 1 _SML-077_2024.07.24.dwg 07/24/2024 8:54pm skadha

1 2 3 4 5 6

A B C

Next Step

Approved with Conditions
Proceed to the Development Review Committee
11.11.2024

Re-Submittal Acknowledgment Statement
The Applicant is responsible for reviewing all documents to ensure all comments have been addressed.

_____ [Applicant Initial] I understand that a Review Cycle is not complete unless and until the applicant replies to all of the required modifications and requests for additional information noted on the previous submittal.

_____ [Applicant Initial] I hereby acknowledge that this re-submittal addresses all required modifications and requests for additional information noted on the previous submittal.

_____ [Applicant Initial] This is the _____ [Ex: 1st] complete re-submittal of the subdivision constituting the start of the _____ [Same Number] Review Cycle.

THIS IS NOT A SURVEY

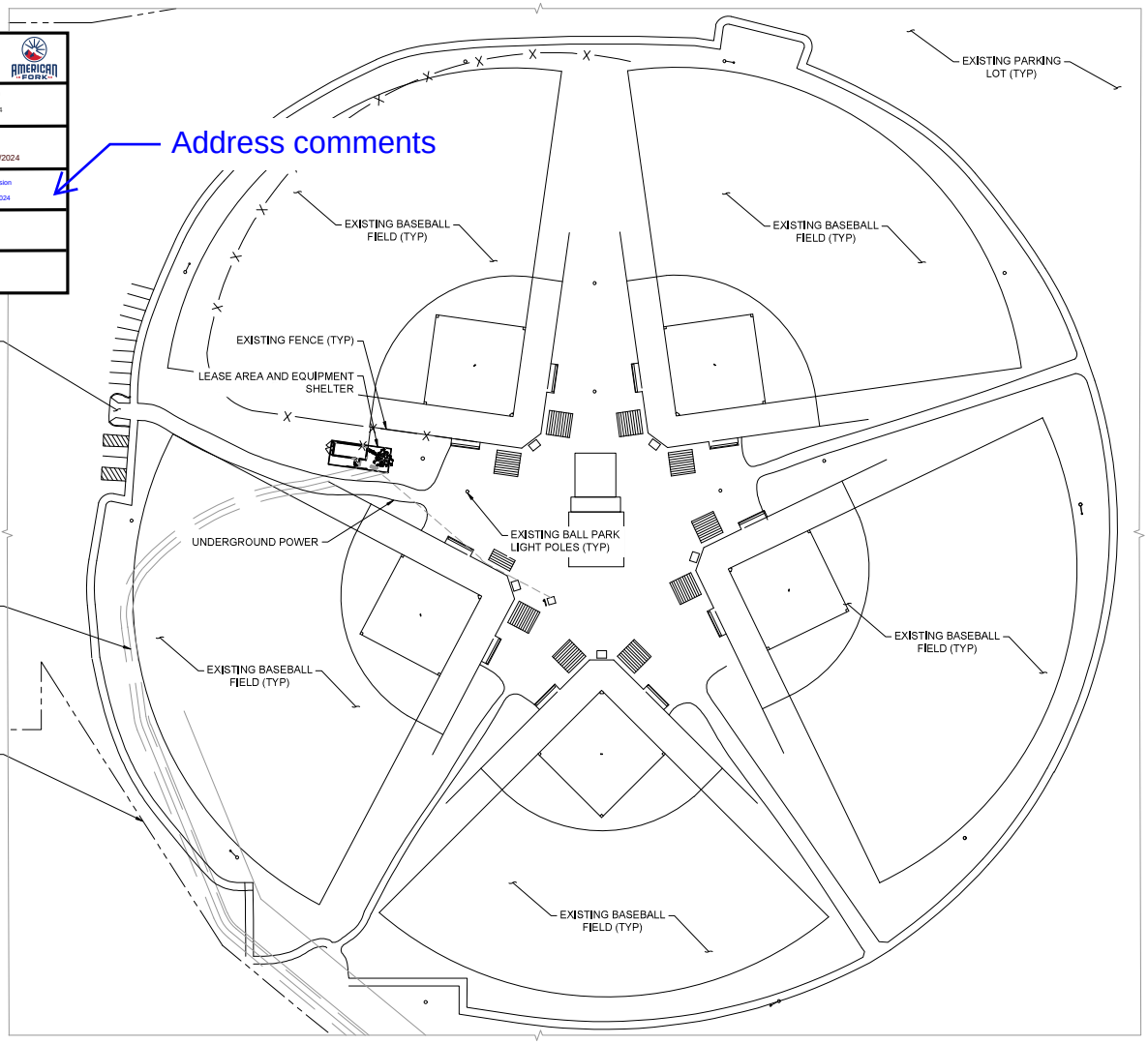
ALL INFORMATION AND TRUE NORTH HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND ARE APPROXIMATE.

No comments

American Fork City Development Review

Planning and Zoning Reviewed copperman 11/05/2024	Water/PI Division Reviewed jbrems 11/04/2024
Streets Division Reviewed ehyde 11/06/2024	EC/LID Reviewed tmezenen 11/05/2024
Communications Reviewed MHunsaker 11/06/2024	Engineering Division Reviewed rburkhill 11/06/2024

Address comments



PLAN NORTH

50' 0 25' 50'

SCALE: 1"=50'-0" (22x34)
(OR) 1/2"=50'-0" (11x17)

SITE PLAN

Need to provide plans appropriate for given scale. I.e. 11x17 or 22x34 page size, not 11x8.5 as provided

DO NOT SCALE DRAWINGS, CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

REGISTERED PROFESSIONAL ENGINEER
No. 6297930-2203
GEOFREY LANCE COOKE
Digitally signed by G. Lance Cooke
Date: 2024.10.25 14:57:15 -07'00'
STATE OF UTAH
EXP 3/31/25

No.	Date	Action
3	10/25/24	JURISDICTIONAL COMMENTS
2	08/07/24	JURISDICTIONAL COMMENTS
1	07/24/24	JURISDICTIONAL COMMENTS
0	05/07/24	FOR CONSTRUCTION
A	04/22/24	PRELIMINARY CDS

Plans Prepared For:
smartlink
10 CHURCH CIRCLE
ANNAPOLIS, MD 21401

Applicant:
AT&T
7670 S. CHESTER ST.
ENGLEWOOD, CO 80112

Plans Prepared By:
MORRISON HERSHFIELD
Stantec
1455 LINCOLN PKWY E, #500
ATLANTA, GA 30346
www.morrisonhershfield.com

Project:
SIUT002417
HIGHLAND 2
FA: 10103880
1200 NORTH 550 EAST
AMERICAN FORK, UT 84003
UTAH COUNTY

Drawing Title:
COMPOUND PLAN

Project No.: 240198300/SML-077	
Designer: IO	Date: 04/19/24
Drawn By: KN	Checked By: MG
PM Review: GLC	Client Approval
Issue No.: 3	Drawing No. A-1

SCALE IS BASED ON 22" x 34" "D" SIZE

C:\Users\ortiz\AppData\Local\Temp\AcPublish_13784\10103880_SIUT002417_FCD_Rev 3 _SML-077_2024.10.25.dwg 10/25/2024 12:59pm hortiz

Planning Commission Staff Report
Meeting Date: December 4, 2024

Agenda Topic

Review and action on an application for a Commercial Site Plan, known as AT&T Upgrade, located at approximately 1584 S 500 E, American Fork City, UT 84003. The Commercial Site Plan will be on approximately 3.32 acres and will be in the I-1 Industrial zone.

BACKGROUND INFORMATION		
Location:		1584 S 500 E
Project Type:		Commercial Site Plan
Applicants:		Scout Carruthers
Existing Land Use:		Design Industrial
Surrounding Land Use:	North	Design Industrial
	South	Design Industria
	East	Design Industrial
	West	Design Industrial
Existing Zoning:		I-1
Surrounding Zoning:	North	PI-1
	South	I-1
	East	I-1
	West	PI-1
Square Footage (By Use)		Approximately 1000
Total Number of Units		N/A
Parking Requirement		N/A

Background

The applicant has applied for a Commercial Site Plan for an existing wireless facility upgrade for AT& T wireless. The upgrade is a standard equipment upgrade that will not increase the height of the tower and will not expand on the existing footprint.

Sec 17.7.201 Developer Confers With Development Review Committee

The developer(s) shall meet with the Development Review Committee to discuss the basic concept of the proposed large scale development and to obtain information pertaining to the general plan and zoning classification of the area proposed for subdivision, city requirements and standards for design and construction of streets, utilities and other requirements affecting the land proposed to be subdivided. The purpose of the conference(s) is to provide informal assistance to the developer(s) in the preparation of the plans early in the process. The Development Review Committee may suggest changes in the proposed layout so the project may be more fully consistent with the city's general plan and also with the city's development regulations and policies. The recommendations from the Development Review Committee prior to the submission of a formal application shall be purely advisory and in no way shall the conference be construed to constitute approval of the plan.

Sec 17.7.202 Developer Prepares Preliminary Plats And Supporting Materials And Submits To Staff

A. After the pre-submittal conference the developer shall prepare and submit to the Development Services Department a preliminary plat submittal packet containing the following:
B. An application for approval of the large scale development project, together with copies of plats and materials showing the layout of the proposed project, including the location, size and dimensions of all lots; the placement and cross-section of all proposed streets; the location of all public utility easements; the intended treatment of drainage; and the intended treatment of any other essential features of the proposed project
C. A geotechnical report for the project area
D. Evidence of payment of the required review fee.
E. Evidence of water right proposed to be conveyed to the city.
F. Evidence of review of the proposed project by required public utility agencies.
G. Other materials deemed by city staff to be essential for an adequate understanding of the proposed project. The scale of the plans, content of the materials, number of copies, time of submittal and other particulars regarding the materials provided in support of an application for approval shall be as established, from time to time, by action of the planning commission.

Sec 17.7.203 DRC Reviews Preliminary Plats, Documents, And Statements

Upon receipt of the preliminary plat submittal packet from the developer the Development Services Director or assignee shall review the plans, documents, and materials for completeness and for conformance with city requirements, standards and general plan, and submit said plans, documents, and statements or portions thereof to the Development Review Committee for their review and recommendation.

Sec 17.7.204 Development Review Committee Reports Results Of Review Of Preliminary Plats, Documents, And Statements To Developer

A. The Development Review Committee shall conduct a Development Review Conference to review and discuss the materials submitted by the developer.
B. Upon completion of review, the Development Review Committee shall provide the results of the review and comments to the Development Services Director or assignee. The results and comments shall be compiled and provided to the developer.
C. The Development Review Committee may suggest changes in order for the preliminary plat materials to be more consistent with the objectives of the general plan and development regulations and policies.

Sec 17.7.206 Development Review Committee Takes Final Action On Preliminary Plat And Supporting Materials

A. After considering the recommendation of all DRC members, the DRC may table the matter, approve, or grant approval, including granting approval upon conditions stated.

B. Approval by of the Preliminary Plat shall not constitute final approval of the project, but shall be deemed as approval to proceed with preparation of a final plat, detailed engineering and supporting materials.

Sec 17.7.207 Developer Prepares And Submits Final Plats, Detailed Engineering Plans And Supporting Material And Submits To Staff

A. After receiving authorization to proceed, the developer shall prepare and submit to the Development Services Director a final plat submittal packet containing the following:
B. Application for final plan/plat approval.
C. A reproducible drawing of the proposed final plat prepared in a format approved for recording at the office of the Utah County Recorder.
D. Copies of the detailed engineering documents and other supporting materials.
E. An itemized engineers estimate of the cost of constructing the required improvements.
F. Copy of project documentation.
G. Evidence of payment of review and recording fee.
H. Documents conveying water rights to city.
I. Evidence that any boundary conflicts with adjacent properties are fully resolved.
J. Other materials deemed by city staff to be essential for an adequate understanding of the proposed project.

The scale of the final plan/plat, content of the materials, number of copies, time of submittal and

other particulars regarding the materials provided in support of an application for final plan/plat approval shall be as established, from time to time, by action the Development Services Director.

Sec 17.7.208 DRC Reviews Final Plans/Plats, Detailed Engineering And Supporting Materials

Upon receipt of the submission from the developer the Development Services Director or assignee shall review the plans/plats and supporting materials for accuracy and completeness. Upon determination of a complete application, the plans, documents and statements, or portions thereof, shall then be provided to the Development Review Committee and applicable public agencies for review of compliance with Federal, State and local laws and regulations, city requirements and standards, and the general plan.

Sec 17.7.209 Development Review Conference - DRC Reports - Results Of Review Of Final Plans/plat, Detailed Engineering Plans And Supporting Materials To Developer

A. The Development Review Committee shall conduct a Development Review Conference to review and discuss the materials submitted by the developer.
B. Upon completion of review, the Development Review Committee shall provide the results of the review and comments to the Development Services Director or assignee. The results and comments shall be compiled and provided to the developer.
C. The Development Review Committee may suggest changes to the submittal materials so that the final plat will conform with the development regulations and policies of the city and the terms of preliminary plat approval.

Sec 17.7.211 Development Review Committee Acts On Final Plan(s)/Plat(s) And Supporting Materials

A. When the final plan(s)/plat(s) and supporting materials required for approval have been completed in final form, the Development Review Committee shall act on the final plat(s) and supporting materials. After considering the recommendation of all DRC members, the DRC may table the matter, approve, or grant approval, including granting approval upon conditions stated. Approval of the final plat(s) shall be made only upon a finding that:
    1. The final plan(s)/plat(s) and supporting materials conform with terms of the preliminary approval.
    2. The final plan(s)/plat(s) complies with all city requirements and standards relating to large scale developments.
    3. The detailed engineering plans and materials comply with the city standards and policies.
    4. The estimates of cost of constructing the required improvements are commensurate to market costs, as verified by the City Engineer.

5. The water rights conveyance documents have been provided.

B. If approved, the City Administrator, Community Development Services Director, and City Engineer shall sign the Final Plat(s) upon completion of all conditions. If any conditions are attached, the Final Plat(s) or construction drawings shall be amended to reflect such changes and an accurate Final Plat(s) shall be submitted to the City, prior to signing.

Sec 17.6.112 Low Power Radio Service Antenna Facilities (Cellular Phone Transmission Towers And Facilities)

A. Intent. It is the intent of this section to establish an approval procedure and placement standards and criteria too more adequately address the various planning issues relating to the placement of low power radio service antenna facilities within the city—including issues of demand, visual mitigation, noise, engineering, residential impacts, health, safety and facility sites—while ensuring that such procedure, standards, and/or criteria do not unreasonably discriminate among competing wireless telecommunications service providers.

B. Procedure for approval. The applicable procedure to be followed in securing approval of a low power radio service antenna facility shall be as follows:
    a. When proposed for placement within the I-1 Industrial, CC-1 Central Commercial or GC-1 General Commercial zones, approval shall be sought and obtained from the planning commission in accordance with the provisions of Section 17.6.101.
    b. When proposed for placement in any other zone, approval shall be sought and obtained from the city council following receipt of a recommendation from the planning commission.
    c. The appropriate governmental body under subsections B.1. and B.2. above (i.e., the approval authority) shall act on a request for such approval within a reasonable period of time.

Project Conditions of Approval

1. N/A

Findings of Fact

a. The Commercial Site Plan meets requirements of code section 17.7.200 and 17.6.112

Project Map



Standards Conditions of Approval

APPLICANT is responsible and shall submit/post/obtain all necessary documentation and evidence to comply with these Standard Conditions of Approval prior to any platting, permitting, or any other form of authorization by the City including plat recording or other property conveyance to the City and prior to scheduling a pre-construction meeting. All recording shall take place at the Utah County Recorder's Office.

1. **Title Report:** Submit an updated Title Report not older than 30 days or other type of appropriate verification that shows all dedications to the City are free and clear of encumbrances, taxes, or other assessments.
2. **Property Taxes and Liens:** Submit evidence that all the property taxes, for the current and/or previous years, liens, and agricultural land use roll over fees have been paid in full.
3. **Water Rights:** Submit evidence that all the required water rights have been conveyed to American Fork City.

4. **Performance Guarantee:** Post a performance guarantee for all required public and essential common improvements.
5. **Easements and Agreements:** Submit/record a long-term Storm Water Pollution Prevention Maintenance Agreement signed and dated by the property owner and any required easement documentation.
6. **Land Disturbance Permit:** Obtain a Land Disturbance Permit.
7. **Compliance with the Plan Review Comments:** All plans and documents shall comply with all the Technical Review Committee comments and the City Engineer's final review.
8. **Commercial Structure:** Record an Owner Acknowledgment and Utility Liability Indemnification if the proposed building is a multi-unit commercial structure served by a single utility service.
9. **Sensitive Lands:** Record all applicable documents required for compliance with the City's Sensitive Lands Ordinance.
10. **Utility Notification Form:** Submit a Subdivision Utility Notification Form.
11. **Professional Verification:** Submit final stamped construction documentation by all appropriate professionals.
12. **Fees:** Payment of all development, inspection, recording, streetlight, and other project related fees.
13. **Mylar:** Submit a Mylar. All plats will receive final verification of all formats, notes, conveyances, and other items contained on the plat by City staff (recorder, legal, engineer, GIS, planning).

Staff Recommendation

The Commercial Site Plan meets the requirements of Section 17.6.101. Staff recommends APPROVING the application.

Potential Motions – Commercial Site Plan

Approval

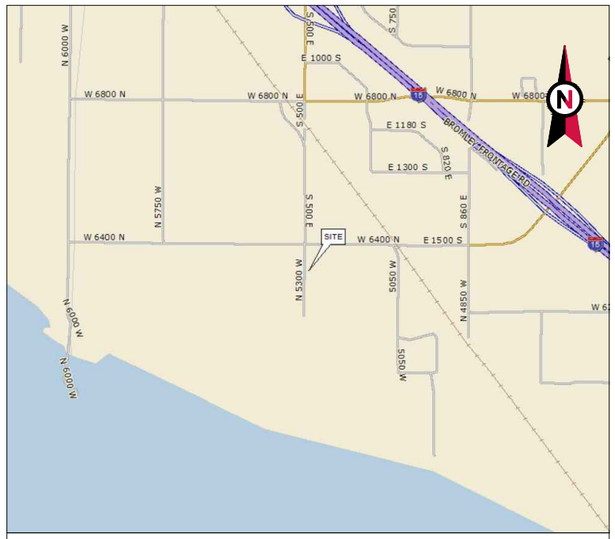
Madam Chair, I move to approve the proposed Commercial Site Plan, located at approximately 1584 S 500 E, American Fork City, UT 84003, in the I-1, subject to any conditions found in the staff report.

Denial

Madam Chair, I move to deny the proposed Commercial Site Plan, located at approximately 1584 S 500 E, American Fork City, UT 84003, in the I-1.

Table

Madam Chair, I move to table action for the proposed Commercial Site Plan, located at approximately 1584 S 500 E, American Fork City, UT 84003, in the I-1 zone and instruct staff/developer to…



VICINITY MAP

AT&T MOBILITY
ANTENNA AMENDMENT PLAN

AMERICAN TOWER®

ATC SITE NAME: PRO FARMER UT
ATC SITE NUMBER: 416704
AT&T MOBILITY IWM ID / PACE JOB NUMBER / PTN:
LTE: WSUTH0035171 / MRUTH062621 / 3752A1A9D3
LTE SOFTWARE CARRIER: WSUTH0035291 / MRUTH062860 / 3752A1A9G2
LTE SOFTWARE CARRIER: WSUTH0035283 / MRUTH062905 / 3752A1A9JL
5G NR RADIO: WSUTH0035163 / MRUTH062833 / 3752A1A9AD
LTE: WSUTH0034968 / MRUTH062925 / 3752A1A9JK
5G NR RADIO: WSUTH0034789 / MRUTH062825 / 3752A1A95V
5G NR RADIO: WSUTH0034501 / MRUTH061494 / 3752A1A9EP
LTE: WSUTH0034172 / MRUTH061337 / 3752A1A9D4
AT&T MOBILITY SITE ID: SIUT001351
AT&T MOBILITY FA CODE: 11553530
AT&T MOBILITY SITE NAME: PLEASANT GROVE & I-15 RELO
SITE ADDRESS: 1584 S 500 E
AMERICAN FORK, UT 84003-3314



LOCATION MAP

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

COMPLIANCE CODE

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

1. 2021 INTERNATIONAL BUILDING CODE (IBC)
2. 2020 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

SEE NEXT PAGE FOR DRC SIGNATURE STAMPS

UTILITY COMPANIES

POWER COMPANY: PACIFICORP
PHONE: (866) 726-8237

TELEPHONE COMPANY: CENTURYLINK
PHONE: (800) 244-1111

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

1584 S 500 E

AMERICAN FORK, UT 84003-3314

COUNTY: UTAH

GEOGRAPHIC COORDINATES:

LATITUDE: 40.34635

LONGITUDE: -111.78532

GROUND ELEVATION: 4,502' AMSL

ZONING INFORMATION:

JURISDICTION: CITY OF AMERICAN FORK

PARCEL ID: 45:402:0011

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

AT&T MOBILITY

ENGINEER:

TEP
326 TRYON RD
RALEIGH, NC 27603

PROPERTY OWNER:

DECORATIVE ENTERPRISES INC
1584 S 580 E
AMERICAN FORK, UT 84003-5628

PROJECT LOCATION DIRECTIONS

TAKE I-15 SOUTH TO PLEASANT GROVE EXIT #275. EXIT TO THE WEST (RIGHT) AND MERGE TO THE FULL LEFT HAND LANE AND GO STRAIGHT 0.9 MILES TO 500 EAST. TURN LEFT ON 500 EAST AND GO LESS THAN 0.1 MILES TO THE TOWER ON THE LEFT HAND SIDE OF THE ROAD. THE 2 GRAY DOORS TO THE SITE CAN BE ACCESSED FROM 500 EAST. TOWER ACCESS FROM BUSINESS GATE OPPOSITE SIDE OF THE BLOCK AS TOWER.

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:
TOWER WORK:
REMOVE (6) ANTENNA(S), (18) RRH(s), AND (1) SQUID(S).

INSTALL (3) RRH DUAL SWIVEL MOUNT(S), (6) PIPE TO PIPE CLAMP(S), (6) ANTENNA(S), (12) RRH(s), (1) SQUID(S), (1) 0.39" FIBER TRUNK(S), AND (1) 0.82" 6 AWG DC TRUNK(S).

EXISTING (6) ANTENNA(S), (2) SQUID(S), (6) 7/8" COAX CABLE(S), (6) 0.96" 8 AWG 6 DC TRUNK(S), (2) 0.39" FIBER TRUNK(S), AND (1) 3/8" RET CONTROL CABLE(S) TO REMAIN.

GROUND WORK:
REMOVE (1) +24VDC INDOOR POWER PLANT(S), (6) RECTIFIER(S), (2) STAND-ALONE CONVERTER SYSTEM(S), (6) +24/-48VDC CONVERTER MODULE(S), (4) 150a CONVERTER(S), (2) +24VDC BATTERY RACK(S), (36) GNB MARATHON M12V155FT BATTER(IES), (1) 20A FSM4-1DC BREAKER(S), (2) 20A SIAD DC BREAKER(S), (3) 20A 1900 DC BREAKER(S), (3) 15A 700 DC BREAKER(S).

INSTALL (1) NETSURE 7100 -48VDC/-58VDC POWER PLANT(S), (1) -48VDC VETRIV BATTERY RACK(S), (1) DC12(s), (11) EA. HE 2KW -48VDC RECTIFIER(S), (8) EA. HE 1.6KW -48VDC/-58VDC CONVERTER(S), (1) VERTIV CONVERTER SHELF(S), (20) ENERSYS POWERSAFE SBS-190F BATTER(IES), (1) GENERIC DRM BBU(S), (2) 250A DC BREAKER(S), (7) 25A DC BREAKER(S), (2) 15A DC BREAKER(S), (6) DC UP-CONVERTERS FOR 4490 B5/B12A(S), (6) DC UP-CONVERTERS FOR 4890 B25/B66(S), (3) DC UP-CONVERTERS FOR AIR6419 B77D(S), AND (3) DC UP-CONVERTERS FOR AIR6419 B77G(S).

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	09/06/24	SSP
G-002	GENERAL NOTES	0	09/06/24	SSP
C-001	OVERALL SITE PLAN	0	09/06/24	SSP
C-101	DETAILED SITE PLAN	0	09/06/24	SSP
C-102	DETAILED EQUIPMENT LAYOUT	0	09/06/24	SSP
C-201	TOWER ELEVATION	0	09/06/24	SSP
C-401	ANTENNA INSTALLATION	0	09/06/24	SSP
C-402	ANTENNA SCHEDULE	0	09/06/24	SSP
C-501	CONSTRUCTION DETAILS	0	09/06/24	SSP
E-101	ELECTRICAL DETAILS	0	09/06/24	SSP
E-102	ELECTRICAL DETAILS	0	09/06/24	SSP
E-103	ELECTRICAL DETAILS	0	09/06/24	SSP
E-501	GROUNDING DETAILS	0	09/06/24	SSP
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			
R-607	SUPPLEMENTAL			
R-608	SUPPLEMENTAL			
R-609	SUPPLEMENTAL			
R-610	SUPPLEMENTAL			

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:

A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

American Fork City
Development Review Committee

Water/PI Division Reviewed jbrems 11/18/2024	Planning and Zoning Reviewed tvanekelenburg 11/20/2024
Fire Department Reviewed M. Sacco 11/18/2024	
Public Infrastructure Reviewed dhoward 11/19/2024	Engineering Division Reviewed rburkhill 11/20/2024
Sewer/Storm Drain Division Reviewed ascott 11/20/2024	
Communications Reviewed MHunsaker 11/20/2024	Streets Division Reviewed ehyde 11/20/2024

No comments

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

Next Step:

Proceed to Development Review Committee
11/25/2024

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
361-6351
jp.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:

PROFESSIONAL ENGINEER
No. 13561209-2202
ANDREW RAGNAR BERGLUND
STATE OF UTAH
09/06/24

AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

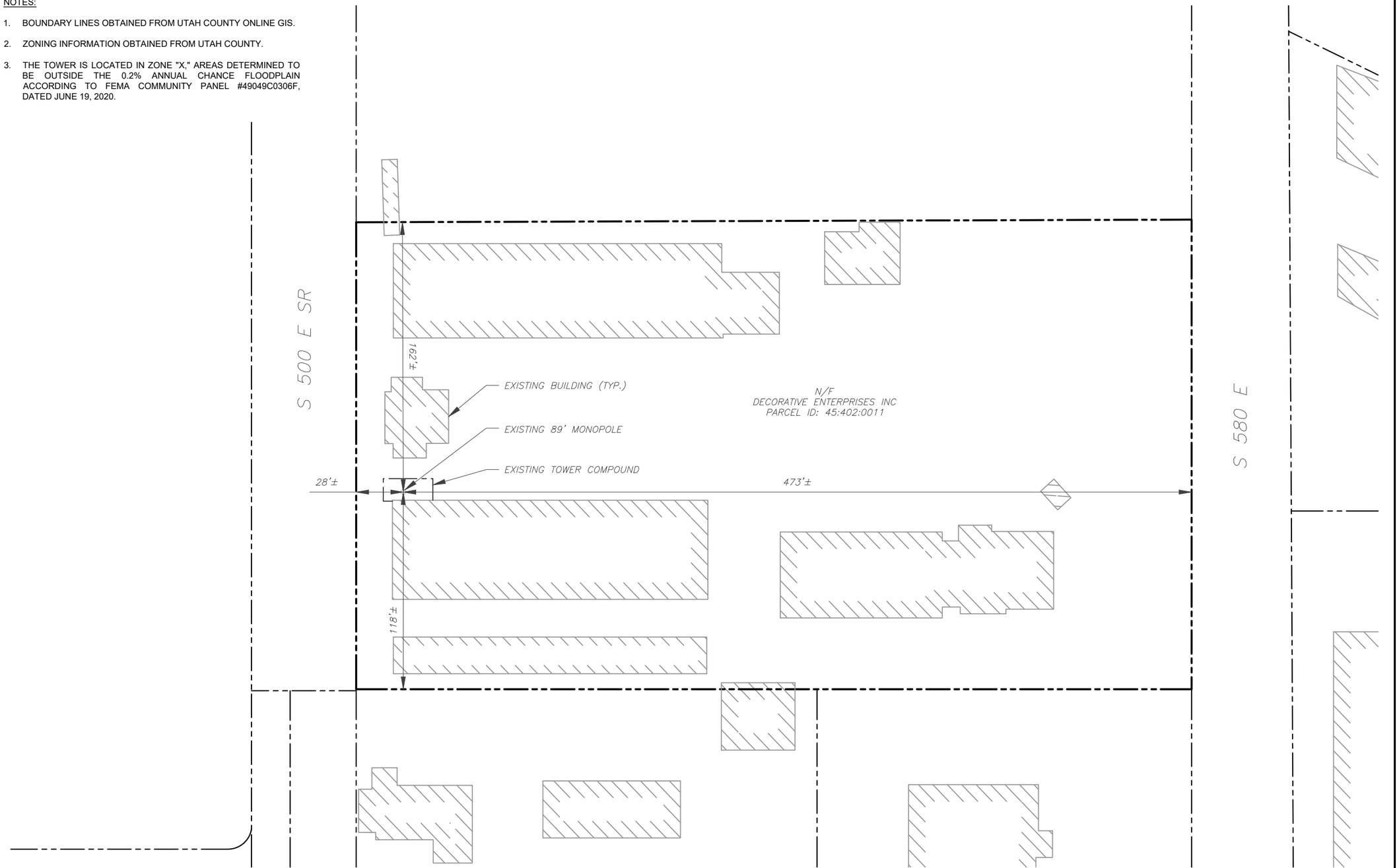
GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.

NOTES:

1. BOUNDARY LINES OBTAINED FROM UTAH COUNTY ONLINE GIS.
2. ZONING INFORMATION OBTAINED FROM UTAH COUNTY.
3. THE TOWER IS LOCATED IN ZONE "X," AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #49049C0306F, DATED JUNE 19, 2020.



LEGEND

- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING LEASE AREA

1 OVERALL SITE PLAN
SCALE: 1" = 60'

0 60' 120'

SCALE: 1"=60' (11X17)
1"=30' (22X34)

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

Copyright © 2024 ATC IP LLC, All Rights Reserved.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

OVERALL SITE PLAN

SHEET NUMBER:	REVISION:
C-001	0

SITE PLAN NOTES:

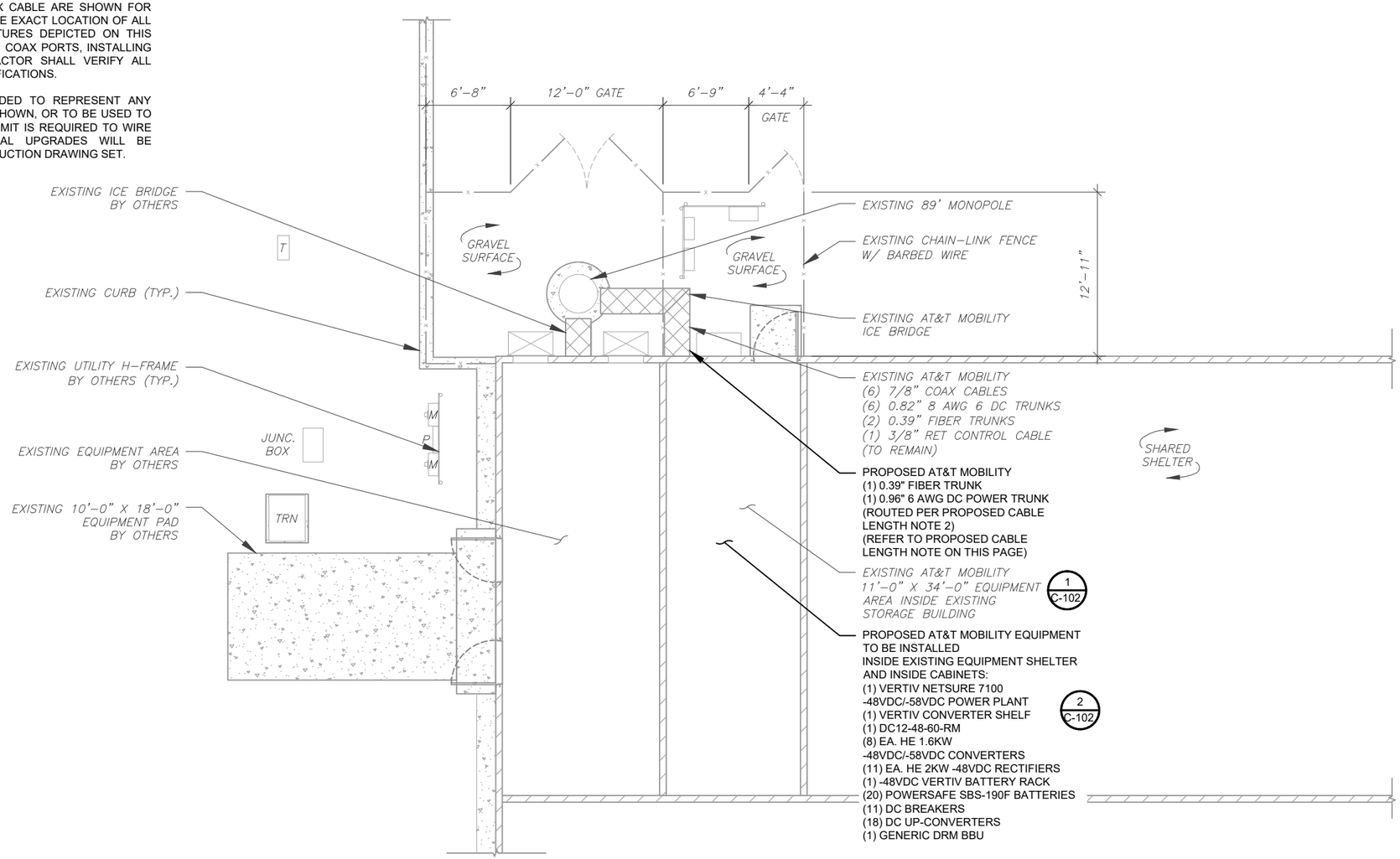
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. THIS CONSTRUCTION DRAWING SET IS NOT INTENDED TO REPRESENT ANY ELECTRICAL DESIGN OTHER THAN THE GROUNDING SHOWN, OR TO BE USED TO OBTAIN AN ELECTRICAL PERMIT. AN ELECTRICAL PERMIT IS REQUIRED TO WIRE UP THE PROPOSED EQUIPMENT. ANY ELECTRICAL UPGRADES WILL BE ENGINEERED AND PERMITTED IN A SEPARATE CONSTRUCTION DRAWING SET.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—— x ——	CHAINLINK FENCE



PROPOSED CABLE NOTES:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **120'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

1 DETAILED SITE PLAN
SCALE: 1" = 10'

0 10' 20'

SCALE: 1"=10' (11X17)
1"=5' (22X34)

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

AT&T

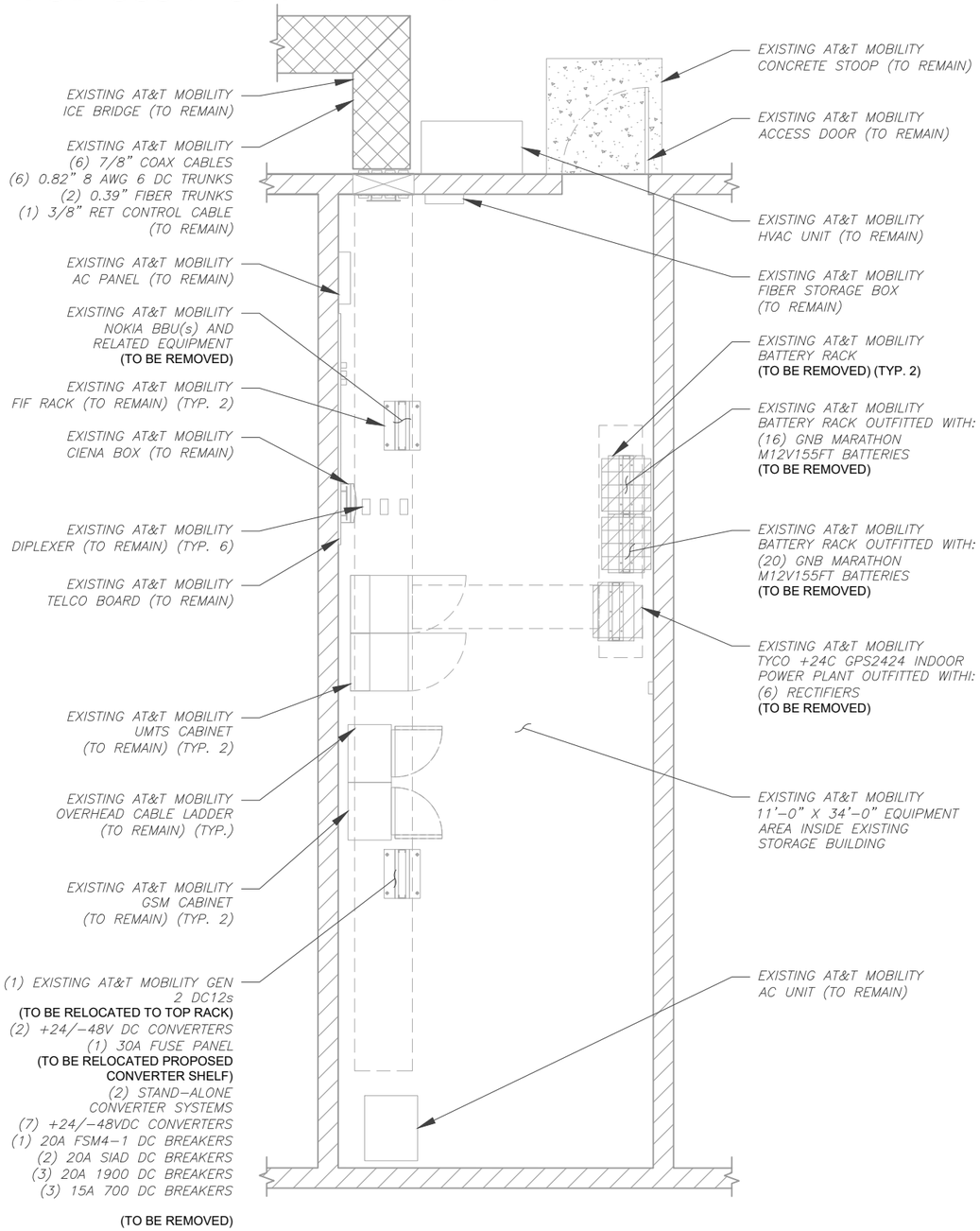
DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

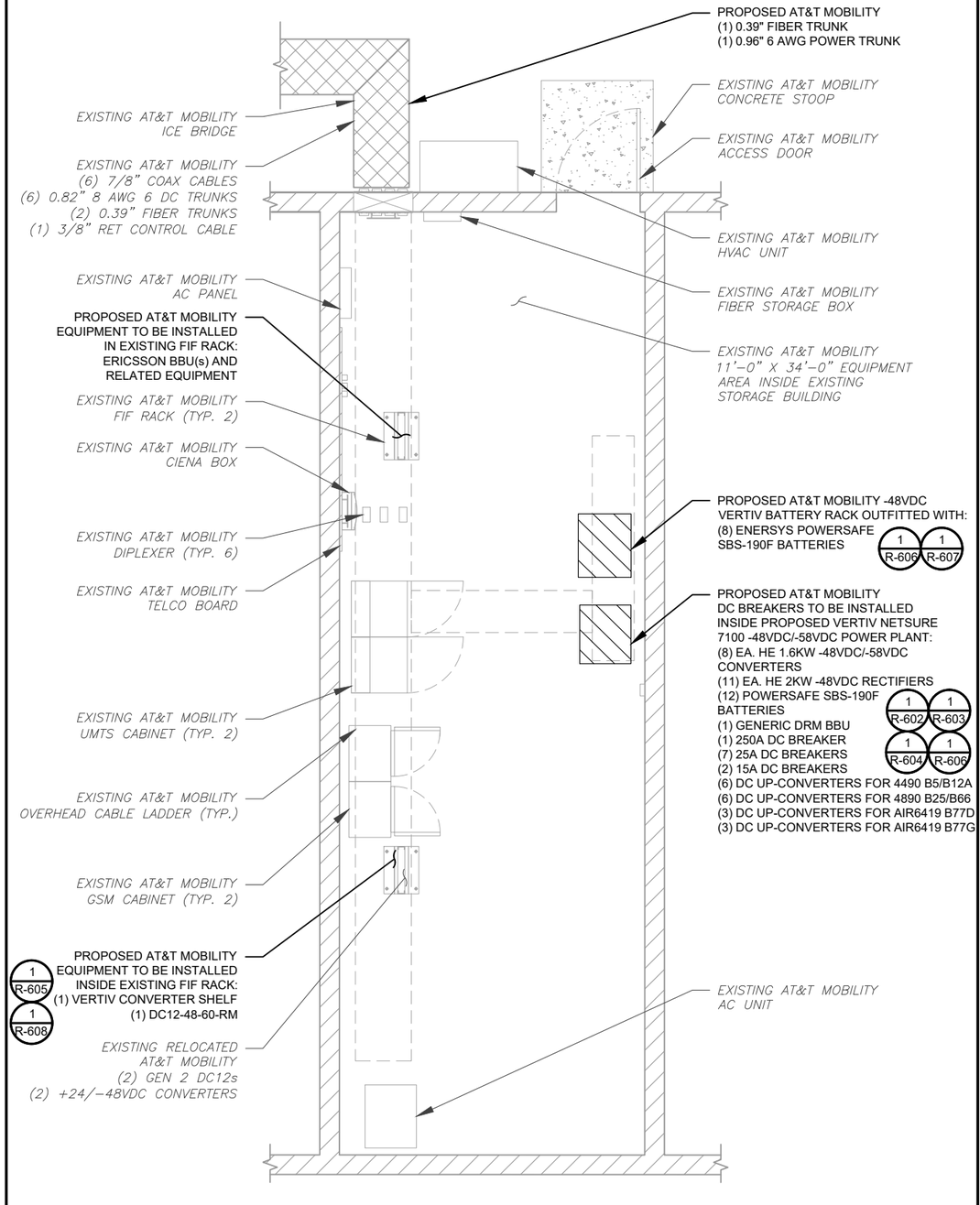


1 EXISTING DETAILED EQUIPMENT LAYOUT

SCALE: 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



2 PROPOSED DETAILED EQUIPMENT LAYOUT

SCALE: 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

AT&T

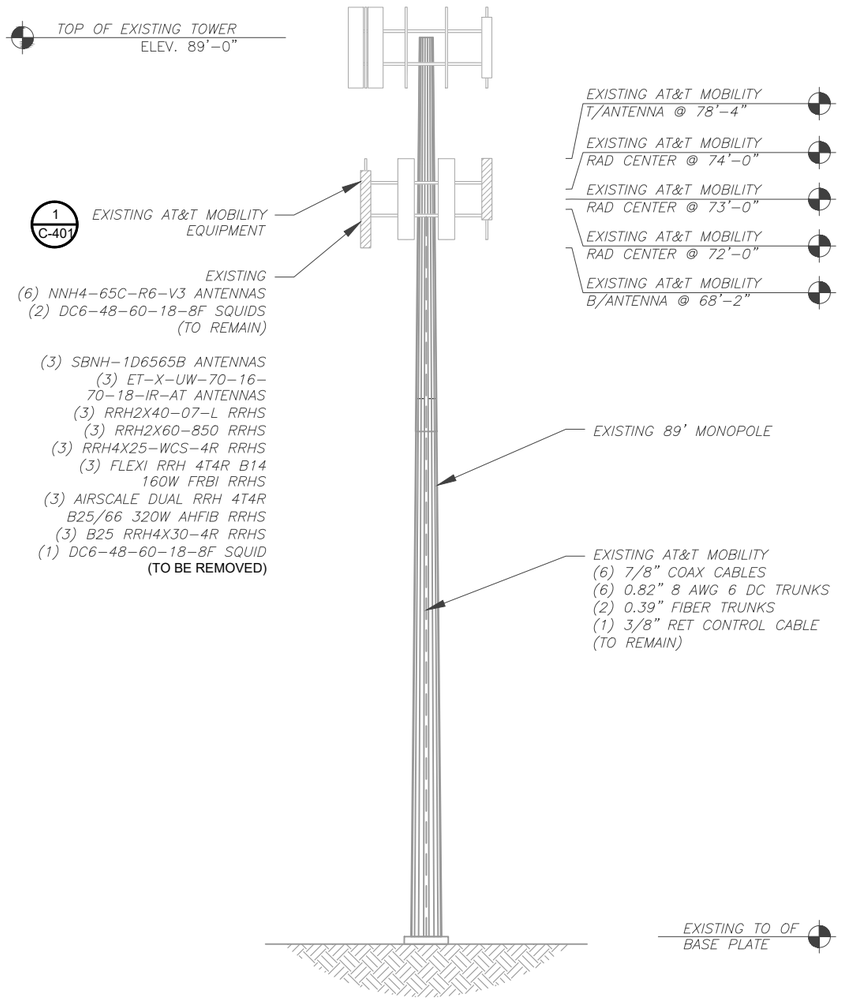
DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

DETAILED EQUIPMENT LAYOUT

SHEET NUMBER:	REVISION:
C-102	0

Copyright © 2024 ATC IP LLC, All Rights Reserved

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

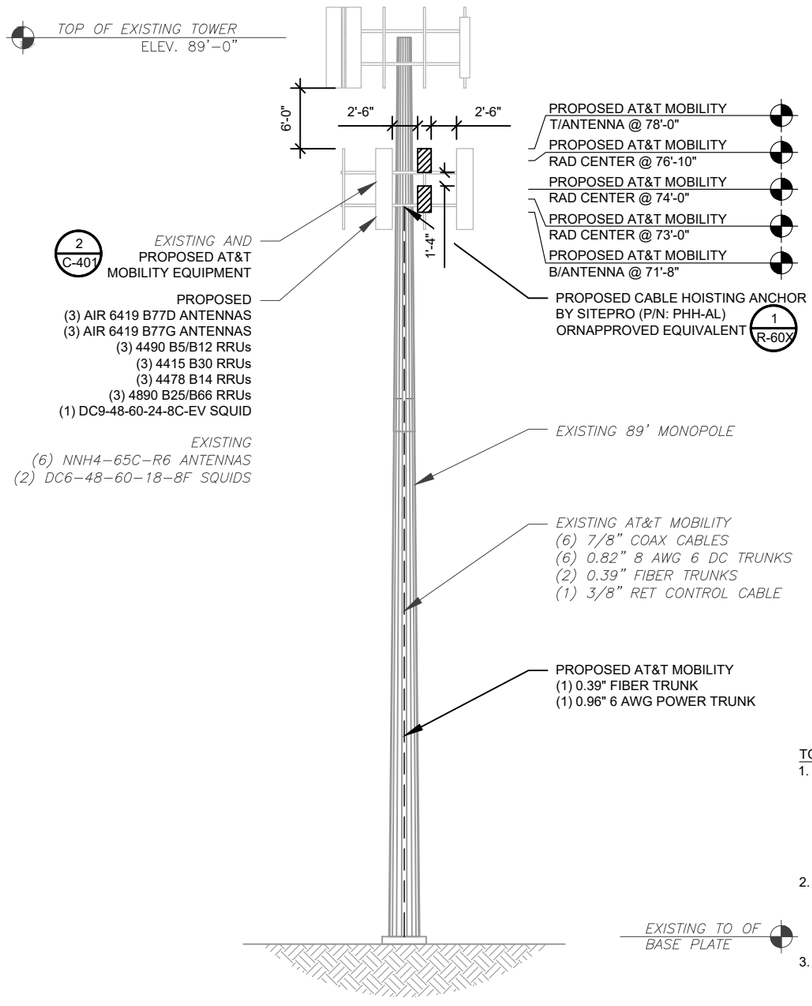


1 EXISTING TOWER ELEVATION

SCALE: 1" = 15'

0 15' 30'

SCALE: 1"=15' (11X17)
1"=7.5' (22X34)



2 PROPOSED TOWER ELEVATION

SCALE: 1" = 15'

0 15' 30'

SCALE: 1"=15' (11X17)
1"=7.5' (22X34)

ATC IS ANALYZING THE ANTENNA MOUNT UNDER A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE MOUNT ANALYSIS IS COMPLETE AND INDICATES THE ADDITIONAL LOADING DOES NOT OVERSTRESS THE MOUNT.

DETAIL SOW:
REMOVE (6) ANTENNA(S)
REMOVE (18) RRH(S)
REMOVE (1) SQUID(S)
INSTALL (3) RRH DUAL SWIVEL MOUNT(S)
INSTALL (6) PIPE TO PIPE CLAMP(S)
INSTALL (6) ANTENNA(S)
INSTALL (12) RRH(S)
INSTALL (1) SQUID(S)
INSTALL (1) 0.39" FIBER TRUNK(S)
INSTALL (1) 0.82" 6 AWG DC TRUNK(S)
EXISTING (6) ANTENNA(S)
EXISTING (2) SQUID(S)
EXISTING (6) 7/8" COAX CABLE(S)
EXISTING (6) 0.96" 8 AWG 6 DC TRUNK(S)
EXISTING (2) 0.39" FIBER TRUNK(S)
EXISTING AND (1) 3/8" RET CONTROL CABLE(S)

TOWER NOTES:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:

PROFESSIONAL ENGINEER
No. 13561209-2202
ANDREW RAGNAR BERGLUND
STATE OF UTAH

09/06/24

AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

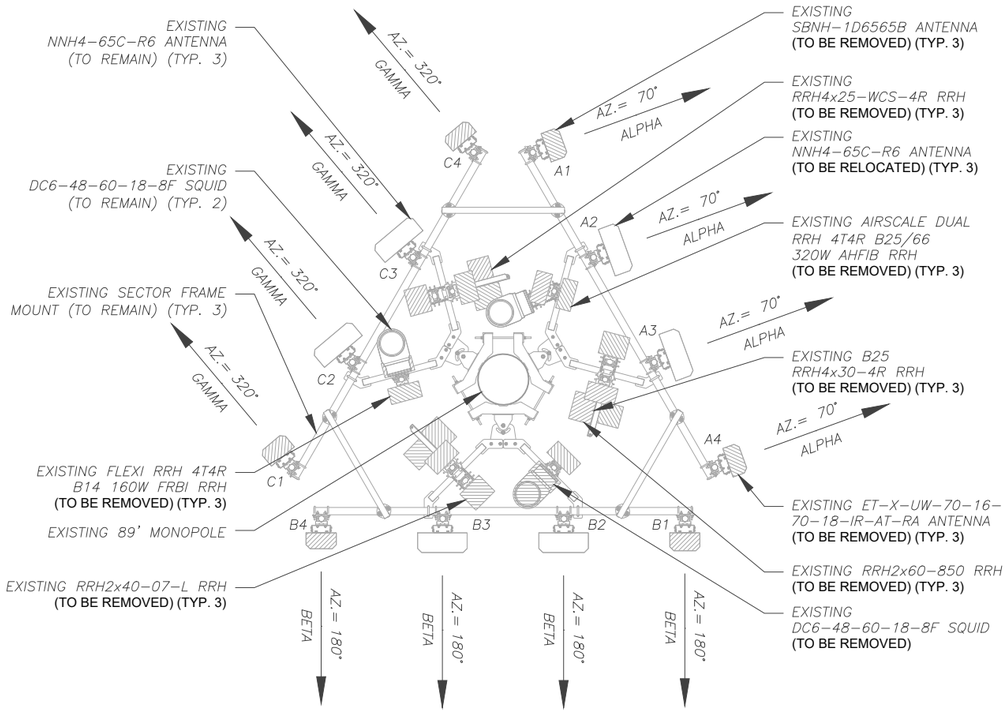
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



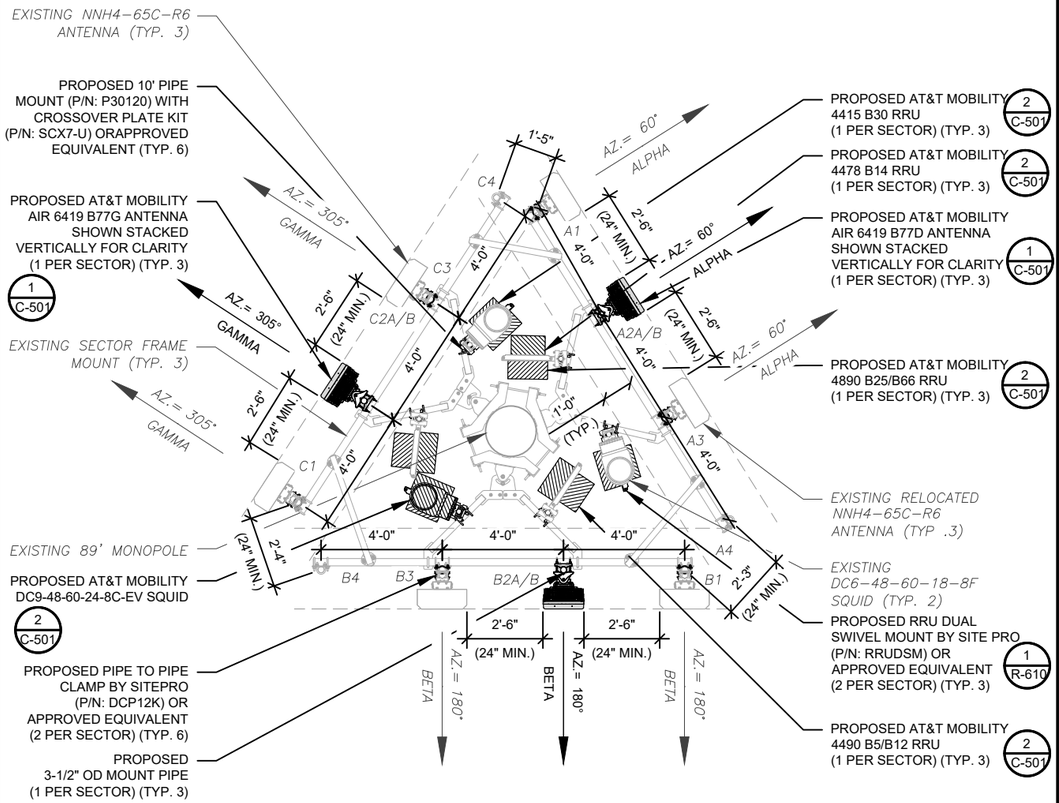
1 EXISTING ANTENNA PLAN

SCALE: 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

ATC IS ANALYZING THE ANTENNA MOUNT UNDER A SEPARATE PROJECT. CONSTRUCTION IS NOT TO PROCEED UNTIL THE MOUNT ANALYSIS IS COMPLETE AND INDICATES THE ADDITIONAL LOADING DOES NOT OVERSTRESS THE MOUNT.



PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS

2 FINAL ANTENNA PLAN

SCALE : 1" = 5'

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

Copyright © 2024 ATC IP LLC, All Rights Reserved.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

ANTENNA INSTALLATION

SHEET NUMBER:	REVISION:
C-401	0

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH. D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	74'	70°	A1	SBNH-1D6565B	UMTS 850	0°/0°/0°	RMV	–	–
	73'		A2	NNH4-65C-R6	LTE 700/LTE AWS	0°/0°/0°	REL	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) FLEXI RRH 4T4R B14 160W FRBI	RMV RMV
			A3	NNH4-65C-R6	LTE 850/LTE WCS	0°/0°/0°	RMN	(1) RRH2x60-850 (1) RRH4x25-WCS-4R	RMV RMV
	72'		A4	ET-X-UW-70-16-70-18-IR-AT-RA	LTE 700/LTE 1900	0°/0°/0°	RMV	(1) B25 RRH4X30-4R (1) RRH2X40W_7L	RMV RMV
BETA	73'	180°	B1	SBNH-1D6565B	UMTS 850	0°/0°/0°	RMV	–	–
	74'		B2	NNH4-65C-R6	LTE 700/LTE AWS	0°/0°/0°	REL	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) FLEXI RRH 4T4R B14 160W FRBI	RMV RMV
	73'		B3	NNH4-65C-R6	LTE 850/LTE WCS	0°/0°/0°	RMN	(1) RRH2x60-850 (1) RRH4x25-WCS-4R	RMV RMV
			B4	ET-X-UW-70-16-70-18-IR-AT-RA	LTE 700/LTE 1900	0°/0°/0°	RMV	(1) B25 RRH4X30-4R (1) RRH2X40W_7L	RMV RMV
GAMMA	74'	320°	C1	SBNH-1D6565B	UMTS 850	0°/0°/0°	RMV	–	–
	73'		C2	NNH4-65C-R6	LTE 700/LTE AWS	0°/0°/0°	REL	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) FLEXI RRH 4T4R B14 160W FRBI	RMV RMV
			C3	NNH4-65C-R6	LTE 850/LTE WCS	0°/0°/0°	RMN	(1) RRH2x60-850 (1) RRH4x25-WCS-4R	RMV RMV
	72'		C4	ET-X-UW-70-16-70-18-IR-AT-RA	LTE 700/LTE 1900	0°/0°/0°	RMV	(1) B25 RRH4X30-4R (1) RRH2X40W_7L	RMV RMV

NOTES

1. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH. D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	74'-0"	70°	A1	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4490 B5/B12 (1) 4415 B30	ADD ADD
	76'-10"		A2A	AIR6419 B77D	5G CBAND	0°/0°/0°	ADD	-	-
	73'-0"		A2B	AIR6419 B77G	5G DOD	0°/0°/0°	ADD		
	74'-0"		A3	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4478 B14 (1) 4890 B25/B66	ADD ADD
			A4	-	-	0°/0°/0°	-	-	-
BETA	74'-0"	180°	B1	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4490 B5/B12 (1) 4415 B30	ADD ADD
	76'-10"		B2A	AIR6419 B77D	5G CBAND	0°/0°/0°	ADD	-	-
	73'-0"		B2B	AIR6419 B77G	5G DOD	0°/0°/0°	ADD		
	74'-0"		B3	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4478 B14 (1) 4890 B25/B66	ADD ADD
			B4	-	-	0°/0°/0°	-	-	-
GAMMA	74'-0"	320°	C1	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4490 B5/B12 (1) 4415 B30	ADD ADD
	76'-10"		C2A	AIR6419 B77D	5G CBAND	0°/0°/0°	ADD	-	-
	73'-0"		C2B	AIR6419 B77G	5G DOD	0°/0°/0°	ADD		
	74'-0"		C3	NNH4-65C-R6	-	0°/0°/0°	RMN	(1) 4478 B14 (1) 4890 B25/B66	ADD ADD
			C4	-	-	0°/0°/0°	-	-	-

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	–	(6) 0.82" 8 AWG 6	(2) 0.39"	RMN
(1) DC6-48-60-18-8F	RMV	(6) 7/8"	(1) 3/8" RET	–	RMN

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	-	(6) 0.82" 8 AWG 6	(2) 0.39"	RMN
-	-	(6) 7/8"	(1) 3/8" RET	-	RMN
(1) DC9-48-60-24-8C-EV	ADD	-	(1) 0.96" 6 AWG	(1) 0.39"	ADD

1 EQUIPMENT SCHEDULES

Copyright © 2024 ATC IP LLC, All Rights Reserved.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

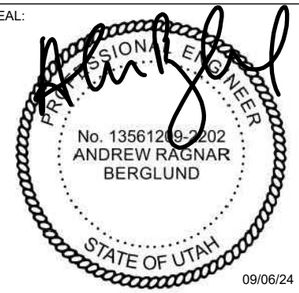
SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

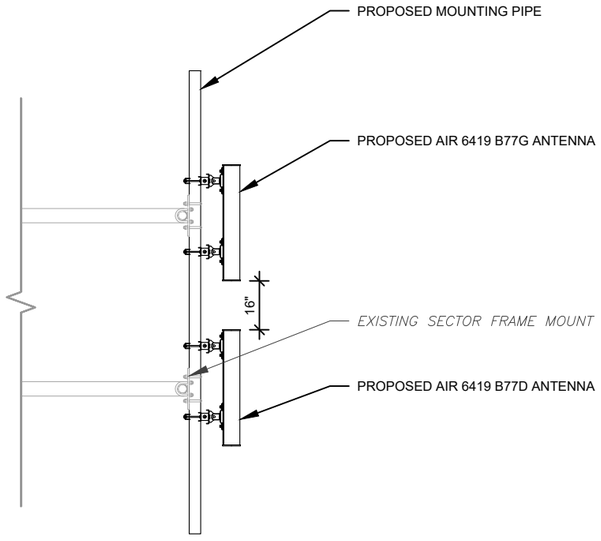
AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

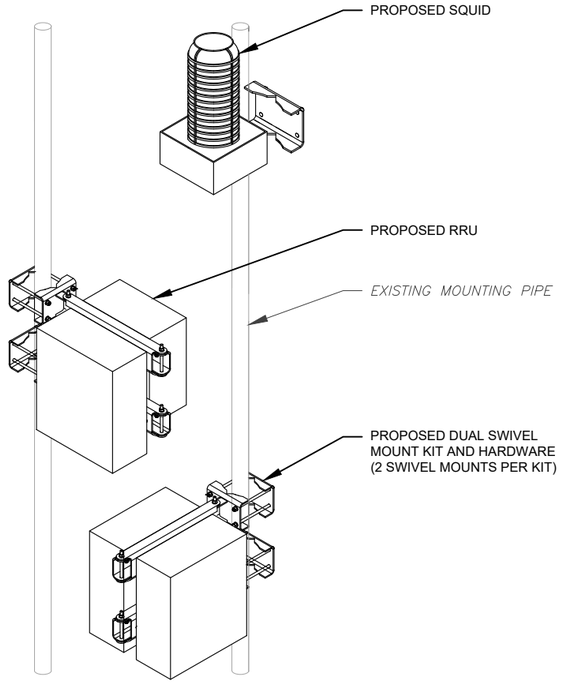
ANTENNA SCHEDULE

SHEET NUMBER:	REVISION:
C-402	0

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.



1 PROPOSED 5G ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



2 PROPOSED RRU & SQUID MOUNTING DETAIL
SCALE: N.T.S.

Copyright © 2024 ATC IP LLC, All Rights Reserved.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

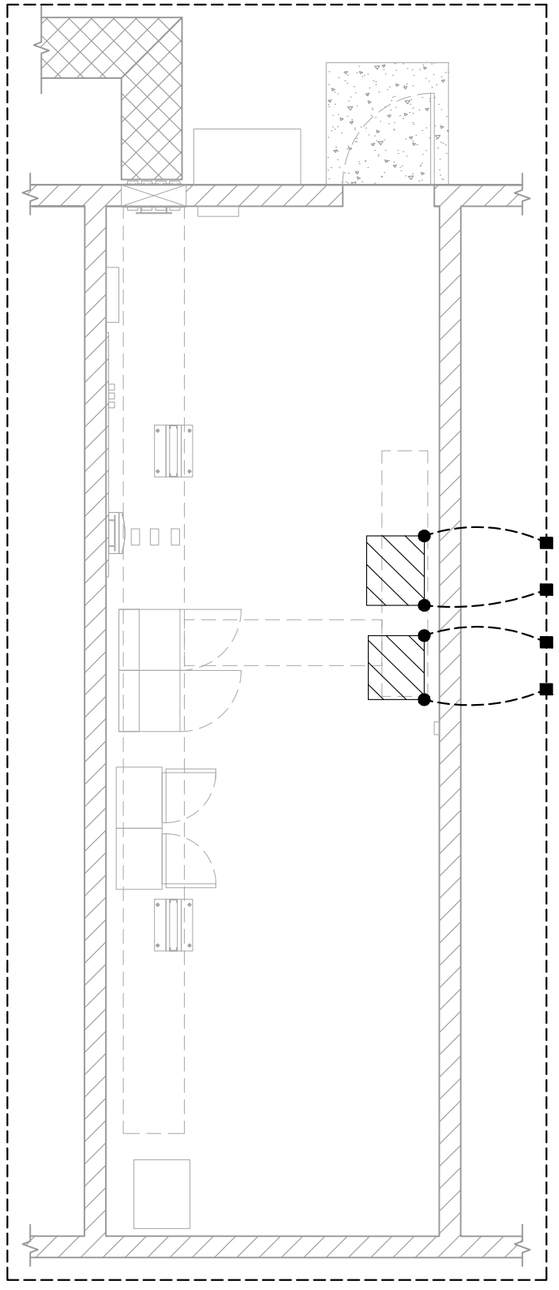
AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

CONSTRUCTION DETAILS

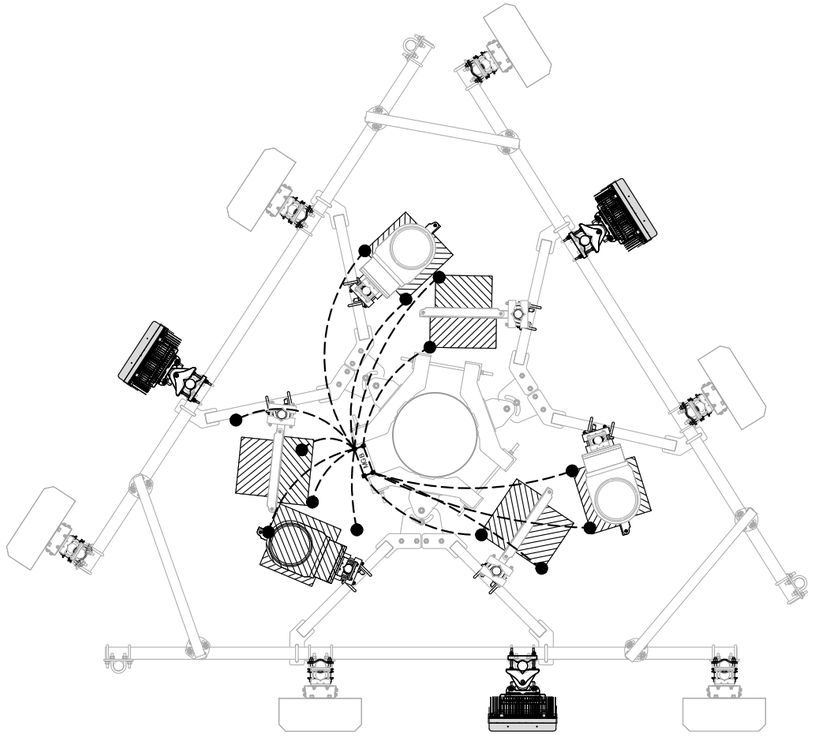
SHEET NUMBER:	REVISION:
C-501	0

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.



LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
▭	ANTENNA GROUND BAR
MGB	MASTER GROUND BAR

1 EQUIPMENT GROUNDING PLAN
SCALE: N.T.S.



LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
▭	ANTENNA GROUND BAR
MGB	MASTER GROUND BAR

2 ANTENNA GROUNDING PLAN
SCALE: N.T.S.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

ELECTRICAL DETAILS

SHEET NUMBER:	REVISION:
E-101	0

Copyright © 2024 ATC IP LLC, All Rights Reserved

OUTSIDE AC POWER PANEL (EXISTING)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A):					200		SYSTEM VOLTAGE (V):			240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
BLANK				1	0		2	30/3	c	0	SURGE
BLANK				3		0	4		c	0	
BLANK				5	0		6		c	0	
BLANK				7		0	8				BLANK
BLANK				9	0		10				BLANK
CONDENSING UNIT #2	3250	c	60/2	11		13460	12	100/2	c	10210	INSIDE AC PANEL
	3250	c		13	12660		14		c	9410	
BLANK				15		0	16				BLANK
HVAC #1	3250	c	60/2	17	3250		18	100/2	nc	0	SPARE / OFF
	3250	c		19		3250	20		nc	0	
BLANK				21	0		22				BLANK
BLANK				23		180	24	20/1	nc	180	GFCI
PHASE TOTALS (VA):					15910	16890					
PHASE TOTALS (A):					133	141					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					166	176	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					32800		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					40955						

1 EXISTING AC PANEL (OUTSIDE)
SCALE: N.T.S.

INSIDE AC POWER PANEL (EXISTING)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A):					100		SYSTEM VOLTAGE (V):			240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
LIGHTS	900	nc	20/1	1	2225		2	30/2	c	1325	RECTIFIER #1
SMOKE ALARM	100	c	20/1	3		1425	4		c	1325	
RECEPTACLES	360	nc	20/1	5	1685		6	30/2	c	1325	RECTIFIER #2
RECEPTACLES	360	nc	20/1	7		1685	8		c	1325	
AIR HANDLER HVAC #2	1000	c	20/2	9	2325		10	30/2	c	1325	RECTIFIER #3
	1000	c		11		2325	12		c	1325	
RECTIFIER #7 / OFF	0	nc	30/2	13	1325		14	30/2	c	1325	RECTIFIER #4
	0	nc		15		1325	16		c	1325	
RECTIFIER #8 / OFF	0	nc	30/2	17	1325		18	30/2	c	1325	RECTIFIER #5
	0	nc		19		1325	20		c	1325	
BLANK				21	1325		22	30/2	c	1325	RECTIFIER #6
BLANK				23		1325	24		c	1325	
BLANK				25	0		26				BLANK
BLANK				27		0	28				BLANK
BLANK				29	0		30				BLANK
BLANK				31		0	32				BLANK
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK
PHASE TOTALS (VA):					10210	9410					
PHASE TOTALS (A):					85	78					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					104	97	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					19620		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					24120						

2 EXISTING AC PANEL (INSIDE)
SCALE: N.T.S.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

OUTSIDE AC POWER PANEL (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A):					200		SYSTEM VOLTAGE (V):			240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
BLANK				1	0		2	30/3	c	0	SURGE
BLANK				3		0	4		c	0	
BLANK				5	0		6		c	0	
BLANK				7		0	8				BLANK
BLANK				9	0		10				BLANK
CONDENSING UNIT #2	3250	c	60/2	11		14310	12	150/2	c	11060	INSIDE AC PANEL
	3250	c		13	13510		14		c	10260	
BLANK				15		0	16				BLANK
HVAC #1	3250	c	60/2	17	3250		18	100/2	nc	0	SPARE / OFF
	3250	c		19		3250	20		nc	0	
BLANK				21	0		22				BLANK
BLANK				23		180	24	20/1	nc	180	GFCI
PHASE TOTALS (VA):					16760	17740					
PHASE TOTALS (A):					140	148					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					175	184	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					34500		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					43080						

3 PROPOSED AC PANEL (OUTSIDE)
SCALE: N.T.S.

INSIDE AC POWER PANEL (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A):					200		SYSTEM VOLTAGE (V):			240	
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
LIGHTS	900	nc	20/1	1	2500		2	30/2	c	1600	VERTIV RECTIFIER 1 & 2
SMOKE ALARM	100	c	20/1	3		1700	4		c	1600	
RECEPTACLES	360	nc	20/1	5	1960		6	30/2	c	1600	VERTIV RECTIFIER 3 & 4
RECEPTACLES	360	nc	20/1	7		1960	8		c	1600	
AIR HANDLER HVAC #2	1000	c	20/2	9	2600		10	30/2	c	1600	VERTIV RECTIFIER 5 & 6
	1000	c		11		2600	12		c	1600	
SPARE / OFF	0	nc	30/2	13	1600		14	30/2	c	1600	VERTIV RECTIFIER 7 & 8
	0	nc		15		1600	16		c	1600	
SPARE / OFF	0	nc	30/2	17	1600		18	30/2	c	1600	VERTIV RECTIFIER 9 & 10
	0	nc		19		1600	20		c	1600	
BLANK				21	800		22	30/2	c	800	VERTIV RECTIFIER 11
BLANK				23		800	24		c	800	
BLANK				25	0		26				BLANK
BLANK				27		0	28				BLANK
BLANK				29	0		30				BLANK
BLANK				31		0	32				BLANK
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK
PHASE TOTALS (VA):					11060	10260					
PHASE TOTALS (A):					92	86					
CURRENT PER PHASE W/ 125% Continuous Loads (A):					113	106	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					21320		Legend: c = continuous, nc = non-continuous				
PANEL TOTAL W/ 125% Continuous Loads (VA):					26245						

4 PROPOSED AC PANEL (INSIDE)
SCALE: N.T.S.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:

PROFESSIONAL ENGINEER
No. 13561209-2202
ANDREW RAGNAR BERGLUND
STATE OF UTAH
09/06/24

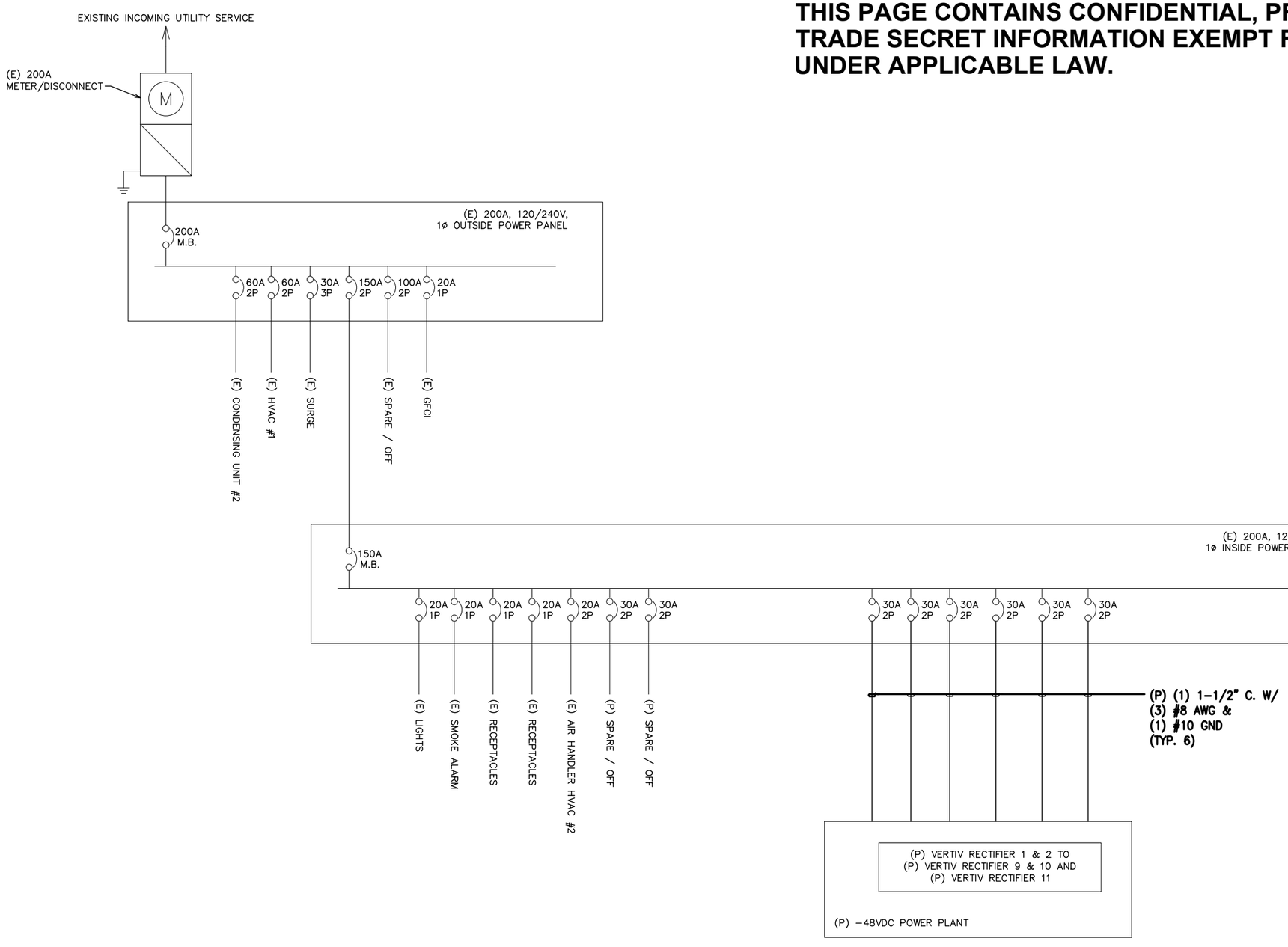
AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

ELECTRICAL DETAILS

SHEET NUMBER:	REVISION:
E-102	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.



THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

LEGEND:
(E) – EXISTING
(N) – NEW

1 ONE-LINE DIAGRAM
SCALE: N.T.S.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

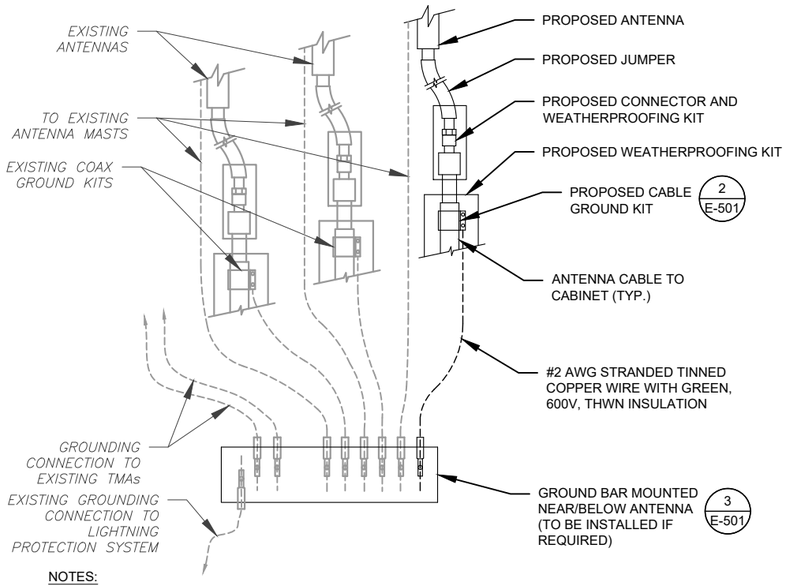
AT&T

DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

ELECTRICAL DETAILS

SHEET NUMBER:	REVISION:
E-103	0

Copyright © 2024 ATC IP LLC, All Rights Reserved.

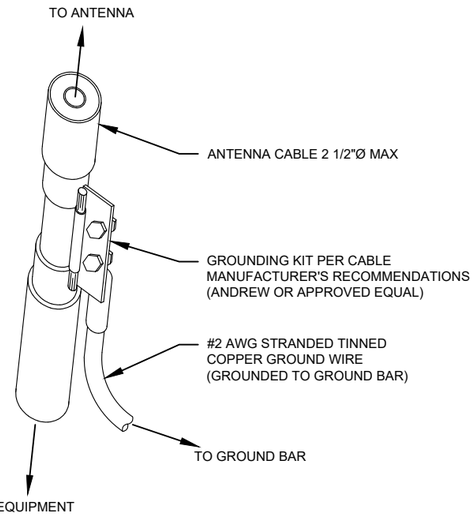


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

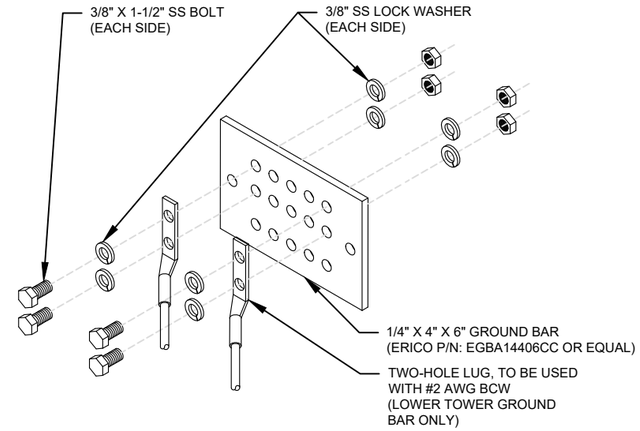


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.

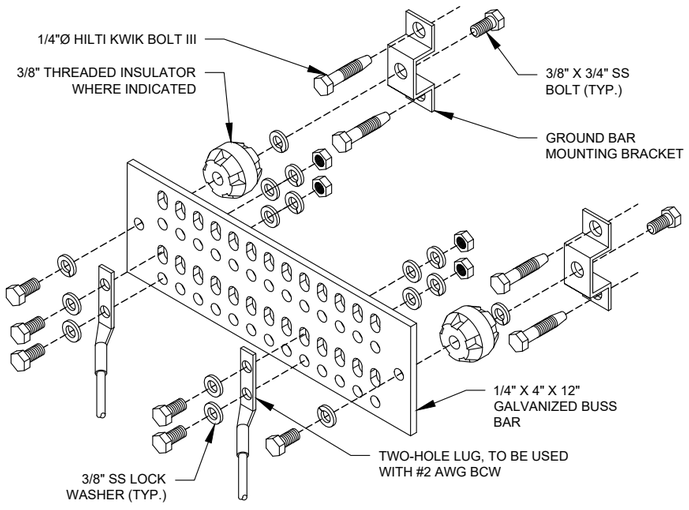


GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.



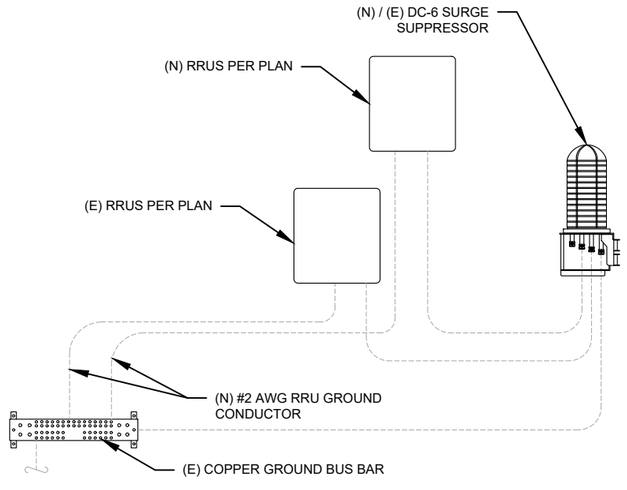
GROUND BAR NOTES

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

4 MAIN GROUND BAR DETAIL

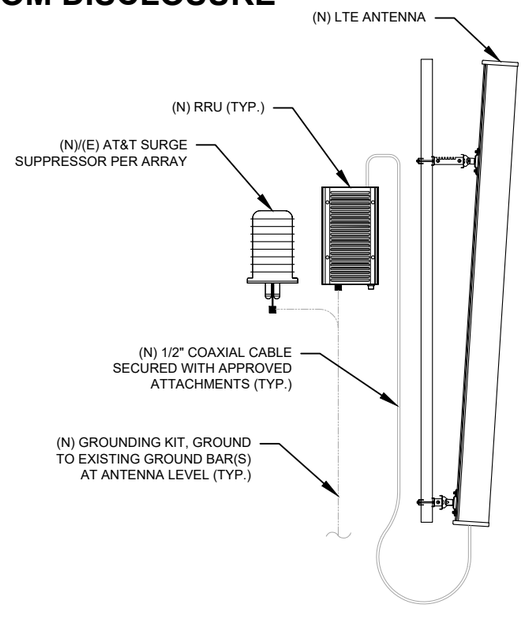
SCALE: N.T.S.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.



5 RRU GROUNDING

SCALE: N.T.S.



6 ANTENNA/RRU GROUNDING

SCALE: N.T.S.

AMERICAN TOWER®

PLANS PREPARED BY:

TEP

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	APM	08/14/24
0	100% CONSTRUCTION	SSP	09/06/24

ATC SITE NUMBER: 416704

ATC SITE NAME: PRO FARMER UT

AT&T MOBILITY SITE NUMBER:

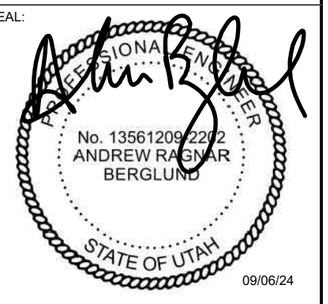
SIUT001351

AT&T MOBILITY SITE NAME:

PLEASANT GROVE & I-15 RELO

SITE ADDRESS:
1584 S 500 E
AMERICAN FORK, UT 84003-3314

SEAL:



09/06/24

AT&T

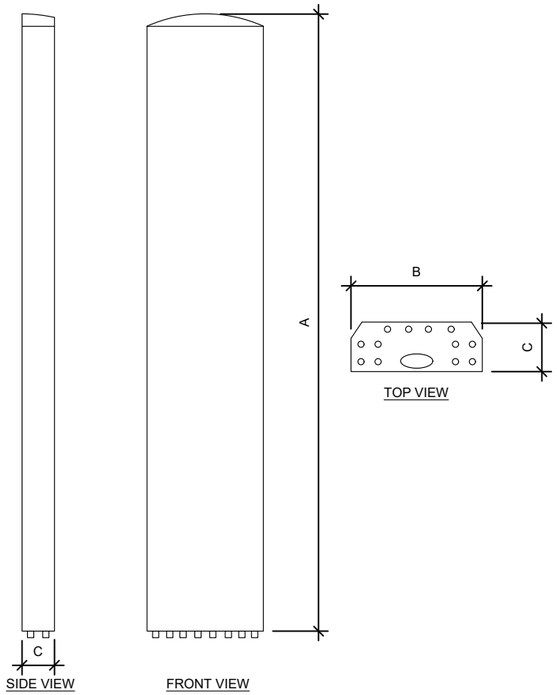
DATE DRAWN:	09/06/24
ATC JOB NO:	14842351
CUSTOMER NAME:	PLEASANT GROVE & I-15 RELO
CUSTOMER ID:	SIUT001351

GROUNDING DETAILS

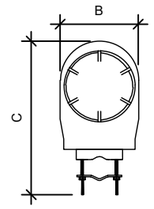
SHEET NUMBER:	REVISION:
E-501	0

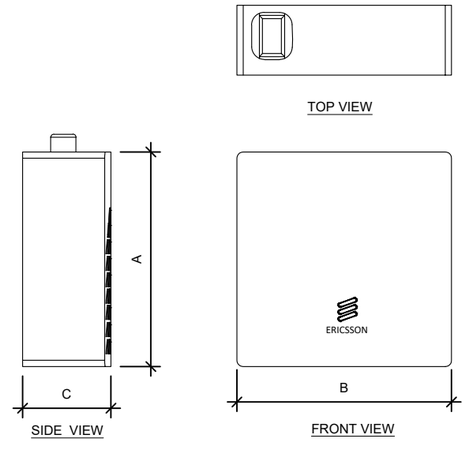
Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

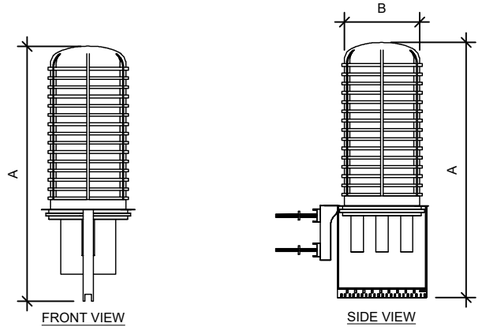


ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77G	28.3"	16.1"	7.9"	66.1
AIR 6419 B77D	31.2"	16.1"	9.1"	63.1





RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RADIO 4890 B25/B66	20.6"	15.7"	7.2"	69.5
RADIO 4415 B30	16.5"	13.4"	5.9"	46.0
RADIO 4478 B14	16.5"	13.4"	7.7"	59.9
RADIO 4490 B5/B12	20.6"	15.7"	7"	68.4



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	25.9"	12.4"	9.7"	18.5

- EQUIPMENT SPECIFICATIONS

SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: -

Copyright © 2024 ATC IP LLC, All Rights Reserved.

NETSURE™ 7100 SERIES

Stand Alone DC Power System

NETSURE™ 7100 SERIES

KEY FEATURES

- Developed for ease of use, enabling safe and quick power and load adjustments on live systems
- System features world leading power density rectifiers, enabling up to 63 kW applications with plenty of distribution space, all in a single footprint
- Individual current measurement feature displays current reading for each fuse/circuit breaker
- Remote IO terminals are easily and safely accessible for adding new alarm signals
- Cabinet efficiency >99,7% from rectifier output to distribution output enabling maximum system efficiency >96,2% from grid to load
- Remote battery management and load control functions minimize the dependency of reactive site call-outs



Highly scalable DC Power system with system range from 3,5 kW to 63 kW in a single cabinet that utilize minimal space. The NetSure 7100 series delivers affordable high power density with outstanding efficiency and system reliability.

Improving reliability

Where constant migration and change is the norm

The NetSure 7100 Series of -48V DC power systems delivers outstanding reliability within a modular, scalable stand-alone cabinet. Power can be scaled in 3,5 kW increments up to 63 kW, alternative up to 21 kW with room for battery back up in the same cabinet. Distribution units can be added, swapped or removed on live sites, making system expansions a standard procedure. Power supply extensions can be made safe-and-easy, without compromising reliability.

Minimizing energy loss

Save operating costs and non-renewable resources

The NetSure 7100 Series minimizes power conversion energy losses, reducing heat dissipation and lowering energy consumption — both on the power supply and the cooling system. Cabinet infrastructure efficiency is greater than 99,7% from rectifier output to breaker output with maximum system efficiency just over 96,2% from grid to load.

Securing availability

Instead of deploying costly excess capacity up-front

With intelligent load management there is no need to install excess capacity up-front to cover for load build-ups and potential overloads. Each load can be monitored and measured down to the distribution, fuse or circuit breaker level. Our NetSure controller displays actual load current utilization in relation to fuse/circuit breaker threshold levels. Site power and load can be added incrementally, at an optimal investment pace, without compromising system reliability and power availability.

Application

The stand-alone NetSure 7100 Series is the ideal solution for small telecom central office and data center sites requiring reliability and power availability in a small footprint. This single cabinet with embedded battery backup is well suited for replacing less power efficient solutions and wherever frequent load changes require continuous monitoring of individual loads.

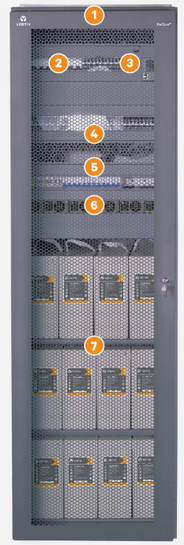
Technical Specifications

AC INPUT	
Range	Single phase: 85 VAC to 300 VAC (Nominal: 200 VAC to 240 VAC)
Line Frequency	50 or 60 Hz (45 Hz to 65 Hz)
Connections	Terminal or distribution for up to 18 circuit breakers
Surge Protection	Optional
DC OUTPUT	
Adjustable Range	-42 VDC to -58 VDC (Nominal: -48 VDC)
Power, Maximum	63 kW (18 x 3,5 kW rectifier modules)
Efficiency, Peak	96,3% eSure™ R48-3500e3 rectifier
DC SYSTEM UNITS	
Distribution Units	Available for circuit breakers, cartridge fuses, NH00 fuses, NH2 fuses
Circuit Breakers	From 2 A up to 200 A
Fuses	NH00 (up to 400 A) and NH2 (up to 400 A)
Intelligent Load Management	Optional, equipment for all distribution units
Battery Connections	4 x (300 A or 400 A) circuit breakers or fuses
Battery Shelves	Optional, up to 4 x 8 U
PHYSICAL CHARACTERISTICS	
Mounting	Top cabling
Dimensions (H x W x D)	2020 mm x 600 mm x 600 mm (per cabinet)
Weight	170 kg per cabinet (fully equipped)
Access and Security	Front access, IP20, door with lock as option
ENVIRONMENTAL	
Temperature Range, Operating	-5 °C to +60 °C (full power up to +40 °C)
Relative Humidity, Operating	<90%
Altitude	2000 m
Audible Noise	59dB for R48-3500e3
Ventilation	Forced ventilated (rectifier fans)
SAFETY AND STANDARDS COMPLIANCE	
Electrical	CE EN60950-1
EMC	EN 300 386-2, Class B
Environmental	REACH, RoHS 6

Ordering Information

MODEL NUMBER	PART NUMBER	DESCRIPTION
—	BMK220A11	Stand Alone NetSure 7100 DC power system, 42 kW
—	BMK220A12	Stand Alone NetSure 7100 DC power system, 63 kW
1R483500E3	BML440068/1	3,5 kW eSure rectifier, high efficiency
M830D	BMP903100/2	NetSure control unit (2 x 2 U front)

OVERVIEW



NetSure 7100 Stand Alone Cabinet

1 Screen Door
2 Battery Connection Unit
3 NetSure Control Unit
4 Load Distribution Unit
5 AC Distribution Unit
6 eSure Rectifiers
7 Battery Shelves

VertivCo.com | **Emerson Network Power Limited,** George Curl Way, Southampton, SO18 2RY, VAT Number: GB188146827

© 2016 Vertiv Co. All rights reserved. Vertiv™, the Vertiv logo, NetXtend™ and NetSure™ are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

EN328DRD-NS7100S / August 2018

Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

1 PROPOSED NETSURE 7100 POWER PLANT DETAIL

SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-602

REVISION: -

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

eSure™ Rectifier

R48-2000e3

VERTIV.

ESURE™ CONVERTER

VERTIV.

Benefits

- Optimize the amount of energy delivered and reduce power consumption with over 96% efficiency.
- Increase space for revenue generating equipment with modules that pack more power in a small space with high power density.
- Facilitate easy maintenance, expansion and system changes with hot swappable capabilities.
- Enjoy increased reliability and active load sharing with Digital Signal Processing (DSP) which translates into fewer components and optimized operation.
- Appreciate the flexibility to utilize in a variety of applications with a wide input voltage range of 85 VAC to 300 VAC and full power output at temperatures from -40˚C to +65˚C.

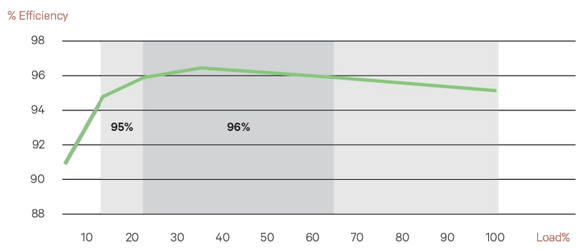
In addition to reducing power consumption and lowering operating cost, eSure™ high-efficiency rectifiers offer superior performance and uncompromised reliability.

Description

The 2000 watt high-efficiency eSure rectifier (model R48-2000e3) converts standard AC supply voltages into stable nominal -48 VDC voltage that is adjustable to application needs. This constant power rectifier designed with the latest patented switch-mode technology, uses DSP (Digital Signal Processing) for efficient operation.

The R48-2000e3 can be connected in parallel with other rectifiers and converters to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ controller.





R48-2000e3 Efficiency Curve at 250 VAC Nominal

Technical Specifications

DC INPUT	
Voltage	41 VDC to 58.5 VDC
Maximum Current	39.5 A
DC OUTPUT	
Voltage	24 VDC to 28 VDC
Maximum Power	1500 W @ Vout >24 VDC
Maximum Current	63 A @ 48-24 VDC, limit set point 6.3 to 63 A *(see figure 1)*
Peak Efficiency	>95%
Psophometric Noise (System)	<2 mV; <32 dBrnc
Temperature Derating	See figure 2
CONTROL AND MONITORING	
Rectifier Alarm and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure Flashing Red LED: Fan Failure
ENVIRONMENTAL	
Operating	-40°C to +80°C / -40°F to +176°F
Storage	-40°C to +85°C / -40°F to +185°F
Relative Humidity	0 to 95%
Altitude	2000 m / 6560 ft at full power
STANDARDS COMPLIANCE	
Safety	60950 (EN, IEC and UL)
EMC	ETSI EN 300 386 class A, FCC CFR 47 Part 15 class A, Telcordia GR-1089-CORE class A
Environment	REACH, R5, WEEE
MECHANICS	
Dimensions (H x W x D)	41 x 84.5 x 252.5 (mm) / 1.61 x 3.33 x 9.94 (inches)
Weight	1.13 kg / 2.49 lbs

Figures

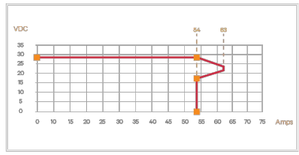


Figure 1:
Output voltage vs. Output current at max. output power 1500 W

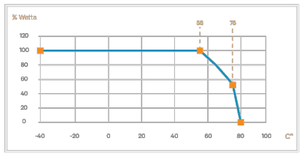


Figure 2:
Output Power vs. Temperature

Ordering Information

MODEL NUMBER	DESCRIPTION
1C48241500	Converter, 48 to 24 VDC, 1500 W

VertivCo.com | **Vertiv Headquarters,** 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2018 Vertiv Co. All rights reserved. Vertiv and the Vertiv logo are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

1 PROPOSED RECTIFIER DETAIL
SCALE : N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-603

REVISION: -

Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

ESURE™ CONVERTER

C48/24 -1500

VERTIV.

KEY FEATURES

Converter, 48 to 24 VDC, 1500 W

- High efficiency over 95% – reduces power consumption lowering operating costs
- High power density – provides more space for revenue generating equipment
- Hot pluggable and interchangeable – for easy expansions and maintenance
- Digital signal processing (DSP) – means fewer components, optimized operation and active load sharing for increased reliability
- Wide input voltage range (41 VDC to 58 VDC) – allows for flexibility, durability and resilience
- Wide operating temperature range from -40°C to +65° – meets the harshest climatic environment requirements
- Compliant with global standards – delivers quality, performance and reliability no matter what the application or location demands

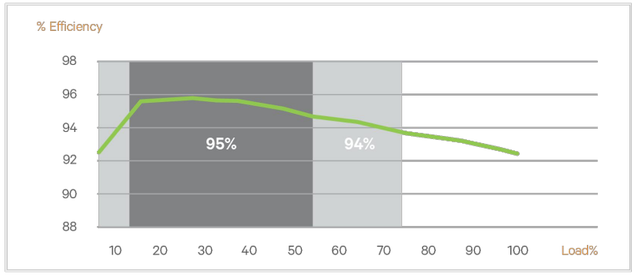
In addition to reducing power consumption and lowering operating cost, eSure™ high-efficiency converters offer superior performance and uncompromised reliability.

Description

The eSure C48/24-1500 high-efficiency converter is designed to operate from a nominal 48 Vdc source to provide nominal 24 VDC load power, which is adjustable to application needs. This constant power converter designed with the latest patented switchmode technology, uses digital signal processing (DSP) for efficient operation.

When redundancy is critical or loads are high, multiple C48/24-1500 converters can be connected in parallel to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ controller.





C48 24-1500 Efficiency Curve at 58 VDC Nominal

VERTIV.

Technical Specifications

DC INPUT	
Voltage	41 VDC to 58.5 VDC
Maximum Current	39.5 A
DC OUTPUT	
Voltage	24 VDC to 28 VDC
Maximum Power	1500 W @ Vout >24 VDC
Maximum Current	63 A @ 48-24 VDC, limit set point 6.3 to 63 A *(see figure 1)*
Peak Efficiency	>95%
Psophometric Noise (System)	<2 mV; <32 dBrnc
Temperature Derating	See figure 2
CONTROL AND MONITORING	
Rectifier Alarm and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure Flashing Red LED: Fan Failure
ENVIRONMENTAL	
Operating	-40°C to +80°C / -40°F to +176°F
Storage	-40°C to +85°C / -40°F to +185°F
Relative Humidity	0 to 95%
Altitude	2000 m / 6560 ft at full power
STANDARDS COMPLIANCE	
Safety	60950 (EN, IEC and UL)
EMC	ETSI EN 300 386 class A, FCC CFR 47 Part 15 class A, Telcordia GR-1089-CORE class A
Environment	REACH, R5, WEEE
MECHANICS	
Dimensions (H x W x D)	41 x 84.5 x 252.5 (mm) / 1.61 x 3.33 x 9.94 (inches)
Weight	1.13 kg / 2.49 lbs

Figures

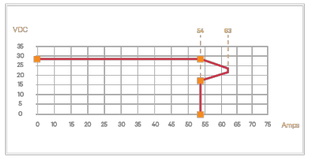


Figure 1:
Output voltage vs. Output current at max. output power 1500 W

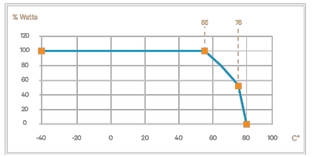


Figure 2:
Output Power vs. Temperature

Ordering Information

MODEL NUMBER	DESCRIPTION
1C48241 500	Converter, 48 to 24 VDC, 1500 W

VertivCo.com | **Vertiv Headquarters,** 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2018 Vertiv Co. All rights reserved. Vertiv and the Vertiv logo are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

2018.02

1 PROPOSED -48VDC/-58VDC CONVERTER DETAIL

SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: -

Copyright © 2024 ATC IP LLC, All Rights Reserved.

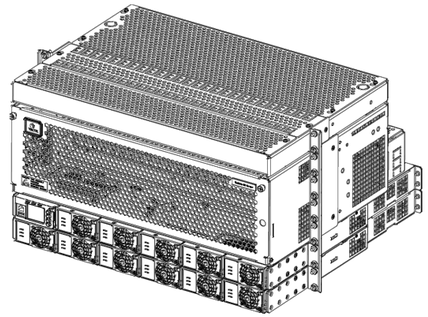
THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

SYSTEM OVERVIEW

Description: -48 VDC to -58 VDC @ up to 600 Amperes Converter System

The Vertiv™ NetSure™ DCS48/58-600 Converter System is a complete integrated converter system containing -48 VDC to -58 VDC converters, intelligent control, metering, monitoring, and distribution.

The converter system is designed for operation with the positive output grounded.



This system consists of the following components.

- **DC Distribution Cabinet**

  The base system includes one (1) distribution cabinet, which provides DC distribution through fuses and/or circuit breakers. The distribution cabinet can be equipped either with a 1-row, 26-position bullet nose type circuit breaker and TPS/TLS fuseholder distribution panel or a distribution panel equipped with four (4) GJ/218 type circuit breaker positions. The distribution cabinet may be equipped with a load disconnect contactor.

  A field installed only expansion distribution cabinet is available which provides DC distribution through fuses and/or circuit breakers. The expansion distribution cabinet is equipped with a 1-row, 26-position bullet nose type circuit breaker and TPS/TLS fuseholder distribution panel. The expansion distribution cabinet may be equipped with a load disconnect contactor.

- **Controller**

  NCU (NetSure™ Control Unit) Controller: The NCU controller provides power system control, converter module control, metering functions, monitoring functions, local/remote alarm functions, and connections for binary inputs and programmable relay outputs. The system also accepts up to two (2) temperature probes to monitor ambient and/or battery temperature. The controller also provides data acquisition and system alarm management. The controller contains a color TFT display and keypad for local access. The controller provides an Ethernet port and comes with comprehensive webpages for local/remote access. The controller has SNMP V3 capability for remote system management. The controller supports software upgrade via its USB port. Refer to the NCU Controller Instructions (UM1M830BNA) for more information.

- **Converter Module Mounting Shelf (Spec. No. 588705300)**

  The system contains two (2) Spec. No. 588705300 converter module mounting shelves, each of which houses the converter modules. The top converter module mounting shelf also houses the NCU controller.

  A field installed only expansion converter module mounting shelf is available. Up to two (2) expansion converter module mounting shelves can be installed in an existing system.

- **-48 VDC to -58 VDC Converter Modules**

  The system accepts 2000 watt peak, 1600 watt average converter modules to provide -58 VDC load power. Refer to the Converter Instructions (UM1C48582000P3) for more information.

General Converter Systems Specifications

See detailed specifications on page 41.

Family:	NetSure™
Spec. No.:	584641000
Model:	DCS48/58-600
DC Input Voltage:	Nominal -48 VDC (-41 VDC to -58.5 VDC).
DC Output Voltage:	Nominal -57 VDC, positive ground. Output voltage is adjustable from -56.0 VDC to -58.0 VDC via the system controller.
DC Output Capacity:	600 A, maximum
1C48582000P3 Converter Rating:	See UM1C48582000P3.
Agency Approval:	UL Listed to UL/CSA 62368-1 (cULus), Meets NEBS Level 1
Mounting Type:	Nominal 23" Relay Rack or Equipment Rack Mounting
Mounting Depth:	See "Overall Dimensions" on page 43.
Mounting Height:	See "Overall Dimensions" on page 43.
Access:	Front and Rear for Installation, Expansion, and Maintenance. Front for Operation.
Control:	Microprocessor
Color:	Faceplates: Textured Gray Other Surfaces: Bright Zinc
Environment:	-40 °C to +65 °C (-40 °F to +149 °F)

1 PROPOSED CONVERTER SHELF DETAIL
SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-605

REVISION: -

Copyright © 2024 ATC IP LLC, All Rights Reserved.

Enersys Powersafe SBS 190F

*Call **877.993.8855** or email: connect@alpinepowersystems.com for immediate assistance.*



The Powersafe SBS 190F Front Terminal battery further extends the technical leadership of the Powersafe SBS 190F product range. Powersafe SBS 190F Front Terminal monoblocs retain the benefits of Thin Plate Pure Lead technology such as long life, high energy density superior shelf life.

Powersafe SBS 190F General Specifications:
Number Of Cells: 6
Number of Voltages: 12
Nominal Capacity:
8hr rate 1.75Vpc @ 77°F: 190

10hr rate 1.80Vpc @ 20°C: 190

Nominal Dimensions:
Length: 22.1 in, 561 mm

Width: 4.90 in, 125 mm

Height: 12.4 in, 316 mm

Weight: 132 lbs, 60.0 kg
Short Circuit Current (Amps): 3800
Internal Resistance: 3.30
Electrolyte:
Volume: 2.34 gal, 8.86 L

Weight: 25.3 lbs, 11.5 kg

1 PROPOSED BATTERIES DETAIL
SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-606	-

Copyright © 2024 ATC IP LLC, All Rights Reserved

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

NETSURE™ 48V VRLA BATTERY RACK

NETSURE™ 48V VRLA BATTERY RACK

KEY FEATURES

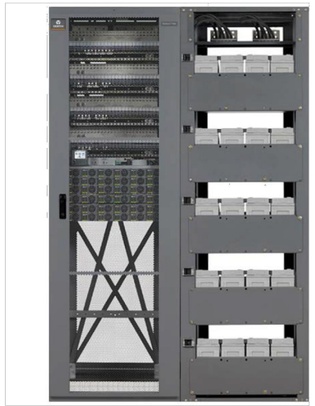
- Battery connection cables are supplied with factory installed lugs for easy installation
- Circuit breakers provide individual battery string disconnect with alarm
- Compatible with any DC power system for versatility
- Complies with industry standards: UL Listed and Seismic Zone 4 compliant

Compact, flexible design is Seismic Zone 4 rated and ideal for telecommunications facilities requiring modular battery plants.

Product Overview

The NetSure™ 48V VRLA Battery Rack provides back-up capacity up to 1050 amp-hours per bay for -48V applications. Model 48BA800 battery racks accommodate five strings of VRLA batteries in a four-post construction rack. Each string is available with 100 amp, 150 amp or 200 amp disconnect breakers.

When deploying equipment at greenfield sites or upgrading existing infrastructure, this rack can be integrated with a NetSure DC power system to deliver ample battery backup. The NetSure system is equipped with an NCU controller that controls low voltage battery disconnect and monitors battery recharge and discharge current. Battery life is maximized through monitoring and controlling battery voltage and current during charge cycles.



48V Battery Rack with NetSure™ 7100 DC Power System

Technical Specifications

DC OUTPUT	
Output Capacity	800 amps per bay
ENVIRONMENTAL	
Operating Ambient Temperature Range	-40°C to +40°C (-40°F to +104°F)
Storage Ambient Temperature Range	-40°C to +85°C (-40°F to +185°F)

Application

The NetSure™ 48V VRLA Battery Rack is designed for use in wireline and wireless communication systems installed in small offices, huts, CEVs and CUEs. It is also designed for use with NetSure DC power systems, and is compatible with most DC power equipment.

Additional Information

Additional specification, engineering and installation information may be obtained by requesting SAG588820400.



Single-Bay Battery Rack

VertivCo.com | **Vertiv Headquarters,** 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2018 Vertiv Co. All rights reserved. Vertiv and the Vertiv logo are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

Copyright © 2024 ATC IP LLC, All Rights Reserved.

1 PROPOSED -48VDC VERTIV BATTERY RACK DETAIL

SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-607

REVISION: -

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

DATA SHEET

DC Surge Protection for RRHs

Rack Mount RM Series

DC6-48-60-RM • DC12-48-60-RM

The deployment of Remote Radio Head (RRH) architecture poses unique challenges to the mobile telecom industry. Raycap's innovative RRH protection solutions mitigate the risk of damage due to lightning and provide high levels of availability and reliability to radio equipment. The DCx-48-60-RM system installs at the DC power base station to protect base band units from voltage surges and lightning.



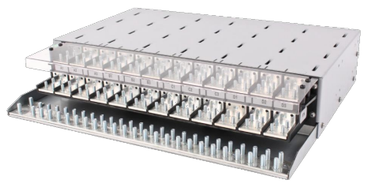
Features

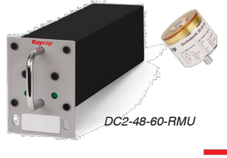
The DCx-48-60-RM system's flexible and upgradeable design provides protection for up to 12 -48VDC circuits. The unit can start as a 6 radio protection system and by adding optional module packages is upgradeable to 12 protection circuits. Can also be ordered fully loaded to protect 12 RRH's.

- Employs the Strikesorb® 30-V1-HV Surge Protective Device (SPD) specifically designed for the Remote Radio Head (RRH) installation environment and certified for use in DC applications and at low DC operating voltages (48V).
- The Strikesorb 30-V1-HV is a Class I SPD, certified by VDE per the IEC 61643-1 standard as suitable for installation in areas where direct lightning exposure is expected. Strikesorb 30-V1-HV is able to withstand direct lightning currents of up to 5 kA (10/350 µs) and induced surge currents of up to 60 kA (8/20 µs).
- Provides very low let through / clamping voltage - unique for a Class I product - as it does not employ spark gaps or other switching elements. Strikesorb offers unique protection levels to the RRH equipment as well as the base band units.
- Fully recognized to the UL 1449 3rd Edition Safety Standard.
- Patent pending design.

Benefits

- Offers unique maintenance-free protection against direct lightning currents.
- Flexible and upgradable design provides up to 12 protection circuits.
- Blind mate connection results in short lead lengths for the best protection, ease of installation, and field service. System modules (DC2-48-60-RMU) can be “unplugged” with no interruption of DC current.
- Slim, 2RU design fits 19" and 23" rack configurations. Mid-mount brackets provide even weight distribution and easy installation.
- Form ‘C’ relays allow remote monitoring of suppressor status.





DC2-48-60-RMU

© 2013 Raycap All rights reserved.

G02-00-120 130626

Raycap www.raycapsurgeprotection.com

SPECIFICATIONS

DC Surge Protection for RRHs

Rack Mount RM Series

DC6-48-60-RM • DC12-48-60-RM

Electrical		
Model Number	DC6-48-60-RM	DC12-48-60-RM
CEQ / ANT Number	CEQ.32405	CEQ.32407
Number of Radio Heads Protected	6	12
Protection Class as per IEC 61643-1	Class I	Class I
Nominal Operating DC Voltage	48 VDC	48 VDC
Nominal Discharge Current [I_n]	20kA 8/20 µs	20kA 8/20 µs
Maximum Surge Current [I_{max}] per IEC 61643-1	60kA 8/20 µs	60kA 8/20 µs
Maximum Impulse (Lightning) Current [I_{imp}] per IEC 61643-1	5kA 10/350 µs	5kA 10/350 µs
Maximum Continuous Operating DC Voltage [U_c]	75 VDC	75 VDC
Voltage Protection Rating (VPR)	400V	400V
Strikesorb Module Type	30-V1-HV	30-V1-HV
Mechanical		
Weight	21lbs (9.52 kg)	27lbs (12.24 kg)
Suppression Connection Method	Compression lug 2-hole, #10, 5/8 pitch, 12-4 AWG (3.31 mm² - 21.14 mm²)	
Environmental Rating	Indoor use only	
Operating Temperature	-40° C to +85° C	
Optional Product Configurations		
Additional Radio Protection (Field Upgradeable)	**CEQ.12657** Order **DC2-48-60-RMU** for DC circuit module kit to protect an addtional 2 radios	
Alarm Module Replacement (Field Upgradeable)	**CEQ.12658** Order **ALM-RM2**	

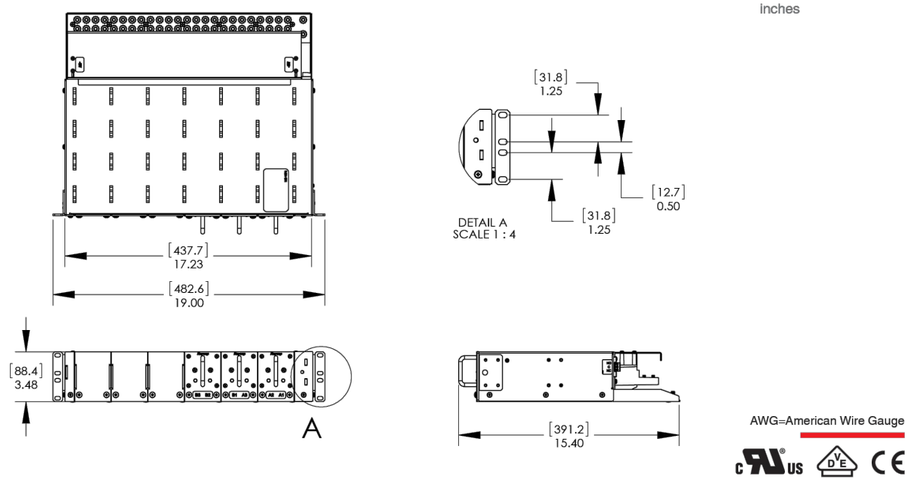
Standards Compliance & Certifications

Strikesorb modules are compliant to the following Surge Protection Device Standards:

UL 1449 3rd Edition, IEEE C62.41, NEMA LS-1, IEC 61643-1:2005 2nd Edition (Class I), IEC 61643-12, EN 61643-11:2002 (including A11:2007)

Product Diagram

[mm]
inches



AWG=American Wire Gauge

Raycap www.raycapsurgeprotection.com

G02-00-120 130626

1 PROPOSED INDOOR DC12 DETAIL

SCALE : N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

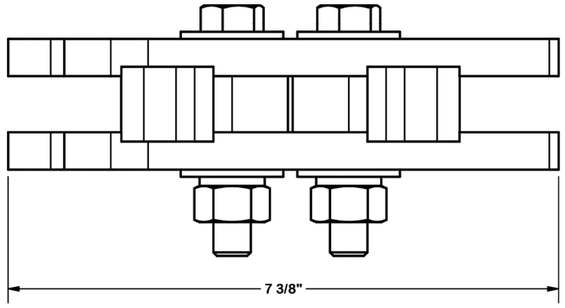
SUPPLEMENTAL

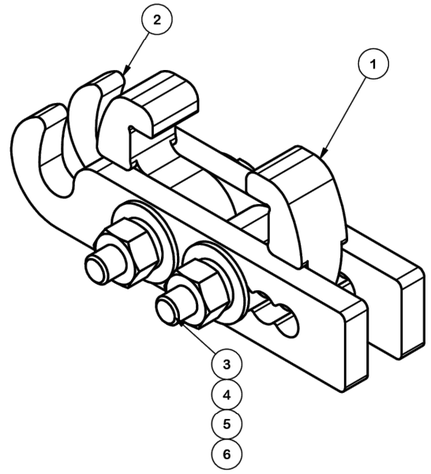
SHEET NUMBER:	REVISION:
R-608	-

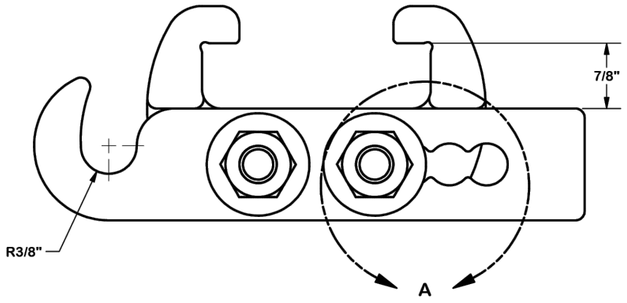
Copyright © 2024 ATC IP LLC, All Rights Reserved.

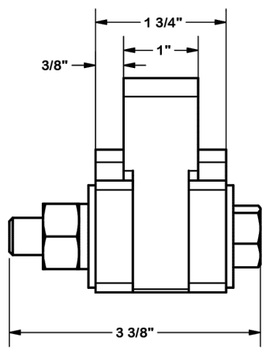
THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

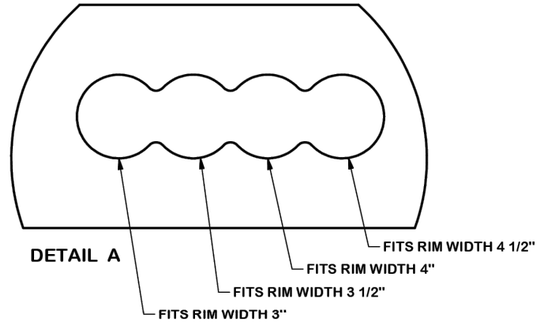
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-HHR-HANGH	1" MILL PLATE (A572 GR50)	12 in	1.14	2.29
2	2	X-HHR-HANGL	1/2" MILL PLATE (A572 GR.50)	12 in	1.34	2.68
3	2	G1203	1/2" x 3" HDG HEX BOLT GR5 FULL THREAD	3 in	0.22	0.43
4	4	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.14
5	2	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.03
6	2	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.14











TOLERANCE NOTES

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

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION: COAX HANGER BRACKET

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	KS 6/22/2022		PHH-AL	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	SHOP		PHH-AL

1 PROPOSED SITE PRO HOISTING ANCHOR DETAIL
SCALE : N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

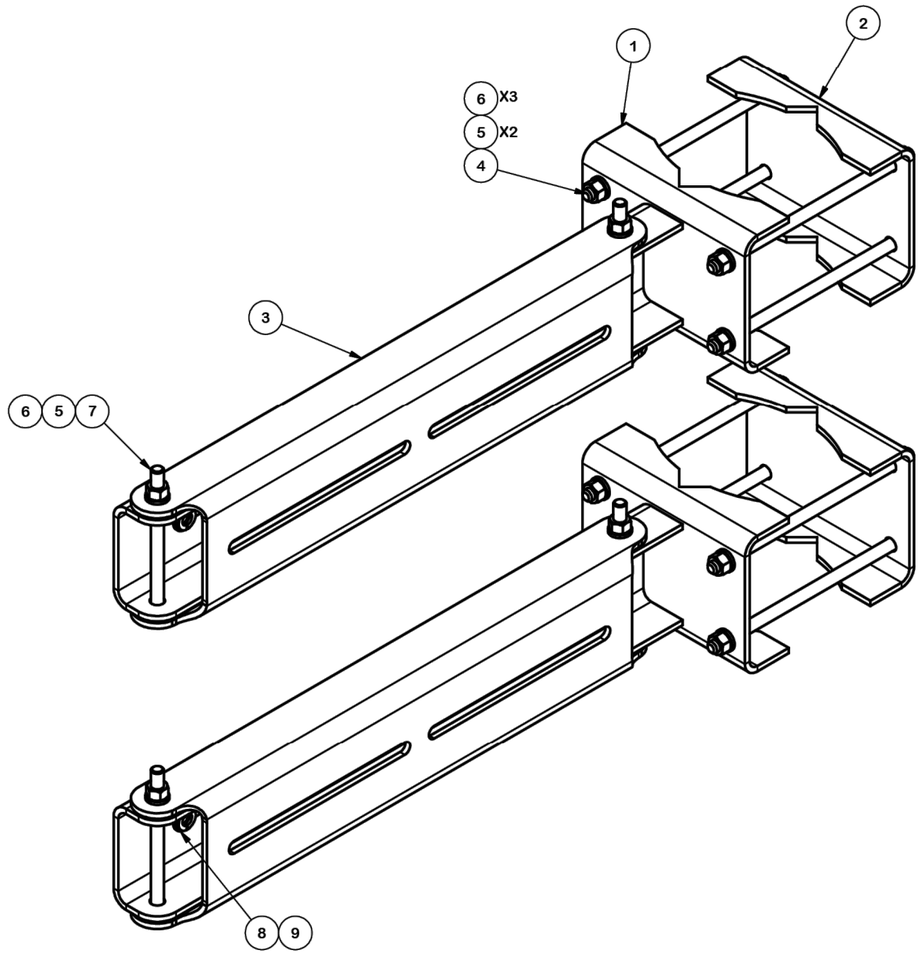
SUPPLEMENTAL

SHEET NUMBER: R-609

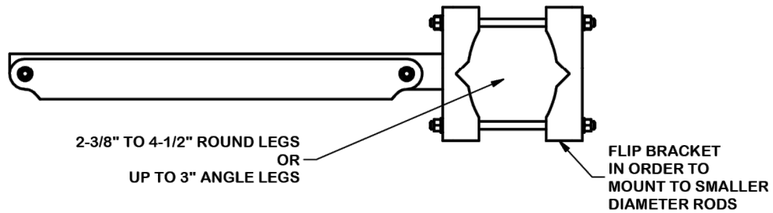
REVISION: -

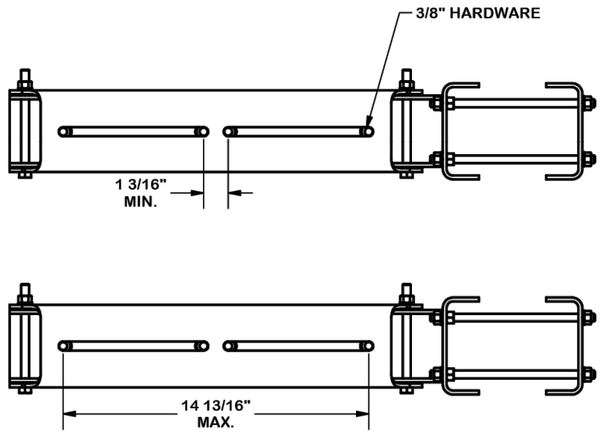
Copyright © 2024 ATC IP LLC, All Rights Reserved.

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.



PARTS LIST					
ITEM	QTY	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	MOUNTING ARM		8.99	17.97
2	2	CLAMP PLATE		2.35	4.69
3	2	SWIVEL MOUNT		6.65	13.30
4	8	3/8"-16 UNC X 8" GALV. THREADED ROD		0.25	2.00
5	20	3/8" GALV LOCK WASHER		0.01	0.13
6	28	3/8"-16 UNC GALV HEX NUT		0.02	0.52
7	4	3/8" X 5" GALV BOLT		0.18	0.71
8	8	3/8" SS FLAT WASHER		0.01	0.06
9	8	3/8" SS LOCK WASHER		0.01	0.05
				TOTAL WT. #	39.43





TOLERANCE NOTES

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

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION: RRU
DUAL SWIVEL MOUNT

SITE PRO 1 — A valmont COMPANY

Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 1/12/2015		RRUDSM	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	SHOP	BMC 2/3/2015	RRUDSM

1 PROPOSED SITE PRO RRU DUAL SWIVEL MOUNT DETAIL
SCALE : N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-610

REVISION: -

Copyright © 2024 ATC IP LLC, All Rights Reserved.