



CONDITIONAL USE PERMIT

Permit info: CUPFY2025-0009

Application Date: 5/12/2025

Rec'd by: _____

FOR OFFICE USE ONLY

6015 Glenwood Street ▪ Garden City, ID 83714 ▪ 208.472.2921

▪ www.gardencityidaho.org ▪ building@gardencityidaho.org

APPLICANT	PROPERTY OWNER
Name: Gary Abrahams for Crown Castle USA Inc. on behalf of AT&T Mobility	Name: DBII LLC
Company: GMA Network Services, LLC	Company:
Address: 590 1st Ave. South, #705	Address: 8247 W. State St.
City: Seattle	City: Garden City
State: WA Zip: 9810	State: ID Zip: 83724
Tel.: 206-349-4279	Tel.:
E-mail: gary@gmanetworkservices.com	E-mail:

PROPERTY AND DESIGN INFORMATION: [VISIT ADA COUNTY ASSESSOR'S SITE](#)

Site Address: 8247 W. State Street, Garden City, ID 83714

Subdivision Name: AZALEA	Lot: 11	Block: 2
Tax Parcel Number: R0719420250	Zoning: C-2	Total Acres: .567
Proposed Use: EFR 6409a for AT&T collocation	Floodplain: YES NO <input checked="" type="checkbox"/> X	

Describe the proposed use: EFR 6409a application for AT&T Mobility's collocation at this existing wireless communication facility. AT&T proposes to add its antennas and associated equipment to the existing monopole, and add associated equipment at the base of the monopole including a walk-up-cabinet and an emergency generator.

Will you be making changes to the structure(s)? YES NO ☒ X
If no, will you be changing the occupancies as defined by the [IBC](#)? YES NO ☒ X

Check any that are applicable to this application: <i>*If any of the first three boxes are checked, a Design Review Application is required*</i>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I will build a new structure No </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I will add 25% or more to the floor area of an existing building - No </div> <div style="border: 1px solid black; padding: 5px;"> I will alter, replace rehabilitate or restore 25% or more of a store façade - No </div>
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How is the use appropriate to the location, the lot, and the neighborhood, and is compatible with the uses permitted in the applicable zoning district?

See attached response

Is the use supported by adequate public facilities or services such as water/sewer, schools, roads, parks, transit, fire protection and police protection?

See attached response

How does the use affect the health, safety or welfare of the community?

See attached response

How does the use support the goals of the Comprehensive Plan?

See attached response

How far is the proposed use from a pedestrian/bicycle pathway?

See attached response

I consent to this application and hereby certify that information contained on this application and in the accompanying materials is correct to the best of my knowledge. I agree to be responsible for all application materials, fees and application correspondence with the City. I will hold harmless and indemnify the City of Garden City from any and all claims and/or causes of action from or an outcome of the issuance of a permit from the City.

See attached


Signature of the Applicant

(date)

Signature of the Owner

(date)

APPLICATION INFORMATION REQUIRED

NOTE: AN ELECTRONIC COPY OF THE ENTIRE APPLICATION SUBMITTAL REQUIRED

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES

ONE (1) HARD COPY OF EACH CHECKLIST ITEM REQUIRED:

- ☒ Compliance Statement and Statement of Intent
 - ☒ Neighborhood Map
 - ☐ Fire Flow / Ability to Serve
 - ☒ 11"x17" Site Plan
 - ☐ Irrigation/Ditch Company Authorization Letter
 - ☐ Landscape Plan
 - ☒ Photos of Site
 - ☒ Neighborhood Meeting Verification
 - ☒ Affidavit of Legal Interest
 - ☒ Waiver Request of Application Materials
 - ☒ Structural Documentation
- (if previous Certificate of Occupancy has been issued and no change to IBC occupancy is anticipated)
- *Additional information may be required by staff such as a traffic/parking analysis, a use analysis or documents related specifically to a business.*



PLEASE CHECK THE FOLLOWING:

INFORMATION REQUIRED ON COMPLIANCE STATEMENT AND STATEMENT OF INTENT:

- ☐ Statement explaining how the proposed use(s) is compliant with the standards of review for the proposed application. Cite the ordinances the proposed use(s) is compliant with
- ☐ Should include purpose, scope, and intent of project
- ☐ Information concerning noxious uses, noise, vibration, and any other aspects of the use or structure that may impact adjacent properties or the surrounding community

INFORMATION REQUIRED ON NEIGHBORHOOD MAP:

- ☐ 8 ½" x 11" size minimum
- ☐ Location of contiguous lots and lot(s) immediately across from any public or private street, building envelopes and/or existing buildings and structures at a scale not less than one inch equals one hundred feet (1" = 100')
- ☐ Impact of the proposed siting on existing buildings, structures, and/or building envelopes

INFORMATION REQUIRED ON SITE PLAN:

- ☐ Scale not less than 1" = 20', legend, and north arrow.
- ☐ Property boundary, dimensions, setbacks and parcel size.
- ☐ Location of the proposed building, improvement, sign, fence or other structure, and the relationship to the platted building envelope and/or building zone
- ☐ Building envelope dimensions with the center of the envelope location established in relation to the property lines
- ☐ Adjacent public and private street right of way lines
- ☐ Total square footage of all proposed structures calculated for each floor. If the application is for an addition or alteration to an existing building or structure, then the new or altered portions shall be clearly indicated on the plans and the square footage of new or altered portion and the existing building shall be included in the calculations

- ☐ For uses classified as drive-through, the site plan shall demonstrate safe pedestrian and vehicular access and circulation on the site and between adjacent properties as required in Section 8-2C-13 of Title 8.

INFORMATION REQUIRED FOR IRRIGATION/DITCH AUTHORIZATION LETTER:

- ☐ Required if irrigation canal/irrigation ditch runs through property or along property lines

INFORMATION FOR NEIGHBORHOOD MEETING VERIFICATION:

- ☐ Copy of notice sent to property owners within 300' of an applicable property
- ☐ List of notice recipients with names and addresses
- ☐ Sign-up sheet from meeting

INFORMATION REQUIRED FOR WAIVER REQUEST OF APPLICATION MATERIALS:

- ☐ Statement must include a list of the application materials to be waived and an explanation for the request

STRUCTURAL DOCUMENTATION (IF NO CHANGE TO STRUCTURE OR IBC OCCUPANCY):

- ☐ **Industrial treatment compliance: a statement answering the following questions:**
 - Do you or will you discharge wastewater other than domestic water from bathrooms to the City Sewer System? If yes, please describe.
 - Are floor drains present in your facility? If yes, are any chemicals stored on site in containers exceeding 1 gallon?
 - Do you or will you use fats, oils or greases in your business? If yes, do you have a grease trap/interceptor present
- ☐ **One set of detailed current floor plans legibly drawn on minimum 8 1/2 X 11 plan sheet drawn to 1/4"= 1' scale (with scale noted on plans) identifying:**
 - Use and square footage per room (i.e. office, storage, restroom, etc.)
 - Primary Occupancy Classification (2018 IBC sec 303-312)
 - Occupancy Load (2018 IBC Sec 1004, table 1004.5)
 - Interior and exterior wall and opening dimensions, windows, doors, roll-up doors
 - Electrical panels interior and exterior
 - Gas meter location
 - Fire extinguisher locations and size
 - Emergency lighting locations
 - Illuminated exit sign locations
 - Fire sprinkler riser location
 - Fire alarm panel location
 - Commercial cooking operation location, including size and type of hoods and grease traps
 - Spray finishing operation location
 - Flammable or combustible product locations
 - Welding operation locations
 - Rack storage locations

Disclaimer Clause: X Denotes application information that may be waived depending on the nature of the request" found under table 8-6a-2 "required application information."

RESPONSE TO CUP QUESTIONS

HOW IS THE USE APPROPRIATE TO THE LOCATION, THE LOT, AND THE NEIGHBORHOOD, AND IS COMPATIBLE WITH THE USES PERMITTED IN THE APPLICABLE ZONING DISTRICT?

Applicant Response:

The proposed application is for AT&T Mobility's installation at an existing wireless communication facility which includes installation of ground-based equipment, including a walk-up-cabinet and an emergency generator, and collocating antennas and associated equipment on an existing Base Station (tower).

IS THE USE SUPPORTED BY ADEQUATE PUBLIC FACILITIES OR SERVICES SUCH AS WATER/SEWER, SCHOOLS, ROADS, PARKS, TRANSIT, FIRE PROTECTION AND POLICE PROTECTION?

Applicant Response:

The subject site is an existing wireless communication facility, and it is served by existing utilities.

HOW DOES THE USE AFFECT THE HEALTH, SAFETY OR WELFARE OF THE COMMUNITY?

Applicant Response:

AT&T Mobility's collocation on an existing wireless communication facility will not have any impact on the surrounding community.

HOW DOES THE USE SUPPORT THE GOALS OF THE COMPREHENSIVE PLAN?

Applicant Response:

The proposed project is for the collocation on an existing wireless communication facility and limits the need for a new tower in Garden City.

HOW FAR IS THE PROPOSED USE FROM A PEDESTRIAN/BICYCLE PATHWAY?

Applicant Response:

The proposed use is a collocation at an existing wireless communication facility, and the proximity to pedestrian or bicycle pathways is not applicable.

[illegible]



VIA EMAIL SUBMITTAL
CITY OF GARDEN CITY, IDAHO
Planning@gardencityidaho.org
building@gardencityidaho.org

May 12, 2025

City of Garden City, Idaho
Planning Department
6015 Glenwood Street
Garden City, ID 83714

*****NOTICE OF ELIGIBLE FACILITIES REQUEST*****

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409
Site Address: 8247 W. State Street, Garden City, Idaho 83714
CONDITIONAL USE PERMIT APPLICATION – AT&T MOBILITY

Crown Site Number: 824322 / Crown Site Name: GrdnCity_Roe
Customer Site Number: IDL02365 / Application Number: 665802
City of Garden City Design Review application #: **DSRFY2024-0017**
Neighborhood meeting held via Zoom on Tuesday, April 29, 2025

Dear Reviewing Parties:

On behalf of New Cingular Wireless PCS, LLC (“AT&T Mobility” or “Applicant”), Crown Castle USA Inc. (“Crown Castle”) is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant’s equipment as an eligible facilities request for a minor modification under Section 6409¹ and the rules of the Federal Communications Commission (“FCC”).²

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical

¹ Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) (codified at 47 U.S.C. § 1455).

² *Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies*, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and *Implementation of State & Local Governments’ Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250 (June 10, 2020).

³ See 47 CFR § 1.6100 (c)(3). ⁴ See 2020 Upgrade Order at paragraph 16.



dimensions of such tower or base station. Under Section 6409, to toll the review period, if the reviewing authority determines that the application is incomplete, it must provide written notice to the applicant within 30 days, which clearly and specifically delineates all missing documents or information reasonably related to whether the request meets the federal requirements.³ Additionally, if a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 30-day and 60-day deadlines begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law⁴. Please note that with the submission of this letter and enclosed items, the thirty and sixty-day review periods have started. Based on this filing, the deadline for written notice of incomplete application is **June 11, 2025**, and the deadline for issuance of approval is **July 11, 2025**.

The proposed scope of work for this project includes:

Collocation of antennas, ancillary equipment and ground equipment as per plans for a new carrier (AT&T Mobility) on an existing wireless communication facility.

At the end of this letter is a checklist of the applicable substantial change criteria under Section 6409. Additionally, please find enclosed the following information in support of this request:

- (1) Eligible Facilities Request Applicant cover letter and narrative (*see this document*), with **Attachment “A,”** Section 6409 Substantial Change Checklist; **Attachment “B,”** Proposed Scope of Work; **Attachment “C,”** Photo of subject site; **Attachment “D,”** Location Map; **Attachment “E,”** Crown Castle authorization to submit permit applications;
- (2) City of Garden City Conditional Use Permit application form;
- (3) Compliance Statement and Statement of Intent;
- (4) Neighborhood Map;
- (5) Site Plan;
- (6) Construction drawings prepared by Telcyte dated 3/19/2025;
- (7) Photos of the site;
- (8) Neighborhood meeting verification – neighborhood meeting was held via Zoom on 4/29/2025;
- (9) Affidavit of Legal Interest;
- (10) Waiver Request of Application Materials – see below
- (11) Structural Documentation - Structural Analysis Report prepared by Morrison Hershfield dated 6/11/2024;
- (12) Ada County Assessor information; and
- (13) Warranty Deed.

Crown Castle requests a waiver for the following documents for this Conditional Use Permit application:

- A) Fire Flow/Ability to serve – this is not applicable to a 6409a application to modify a wireless facility
- B) Irrigation/Ditch company authorization letter – this is not applicable to a 6409a application to modify a wireless facility



C) Landscape Plan – this is not applicable as no landscaping is proposed as part of this project

As these documents indicate, (i) the modification involves the collocation, removal or replacement of transmission equipment; and (ii) such modification will not substantially change the physical dimensions of such tower or base station. As such, it is an “eligible facilities request” as defined in the FCC’s rules to which the 60-day deadline for approval applies. Accordingly, Applicant requests all authorization necessary for this proposed minor modification under Section 6409.

Our goal is to work with you to obtain approvals earlier than the deadline. We will respond promptly to any request for related information you may have in connection with this request. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will improve wireless telecommunication services in your community using collocation on existing infrastructure. If you have any questions, please do not hesitate to contact me.

Regards,

Gary Abrahams

Gary Abrahams

GMA Network Services, LLC

Agent for Crown Castle USA Inc.



Attachment “A”

Section 6409 Substantial Change Checklist Towers Outside of the Public Right of Way

The Federal Communications Commission has determined that a modification substantially changes the physical dimension of a wireless tower or base station under 47 U.S.C. § 1455(a) if it meets one of six enumerated criteria under 47 C.F.R. § 1.6100.

Criteria for Towers Outside the Public Rights of Way

YES/NO NO	Does the modification increase the height of the tower by more than the greater of: (a) 10% (b) or, the height of an additional antenna array plus separation of up to 20 feet from the top of the nearest existing antenna?
YES/NO NO	Does the modification add an appurtenance to the body of the tower that would protrude from the edge of the tower more than 20 feet or more than the width of the tower structure at the level of the appurtenance, whichever is greater?
YES/NO NO	Does the modification involve the installation of more than the standard number of new equipment cabinets for the technology involved or add more than four new equipment cabinets?
YES/NO NO	Does the modification entail any excavation or deployment outside the current site by more than 30 feet in any direction, not including any access or utility easements?
YES/NO NO	Does the modification defeat the concealment elements of the eligible support structure?
YES/NO NO	Does the modification violate conditions associated with the siting approval with the prior approval the tower or base station other than as specified in 47 C.F.R. § 1.6100(c)(7)(i) – (iv)?

If all questions in the above section are answered “NO,” then the modification does not constitute a substantial change to the existing tower under 47 C.F.R. § 1.6100.



Attachment "B"

PROPOSED SCOPE OF WORK FOR AT&T MOBILITY

8247 W. State Street, Garden City, Idaho 83714

PROJECT DESCRIPTION

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. BRING POWER / FIBER TO SITE LOCATION
2. ADD AT&T APPROVED 6'X6' CONCRETE WALK IN CABINET (CWUC) & ASSOCIATED INTERIOR EQUIPMENT
3. ADD NEW COMPOUND FENCE
4. ADD (1) 30KW AC DIESEL GENERATOR
5. ADD (1) NEW GPS UNIT
6. ADD (3) VFA12-HD-WLL SECTOR MOUNTS ON (E) MONOPOLE
7. ADD (12) ANTENNAS, (4) PER SECTOR
8. ADD (9) RRHs, (3) PER SECTOR
9. ADD (3) DC9 SURGE SUPPRESSORS, (1) PER SECTOR
10. ADD (6) DC TRUNKS
11. ADD (3) FIBER TRUNKS



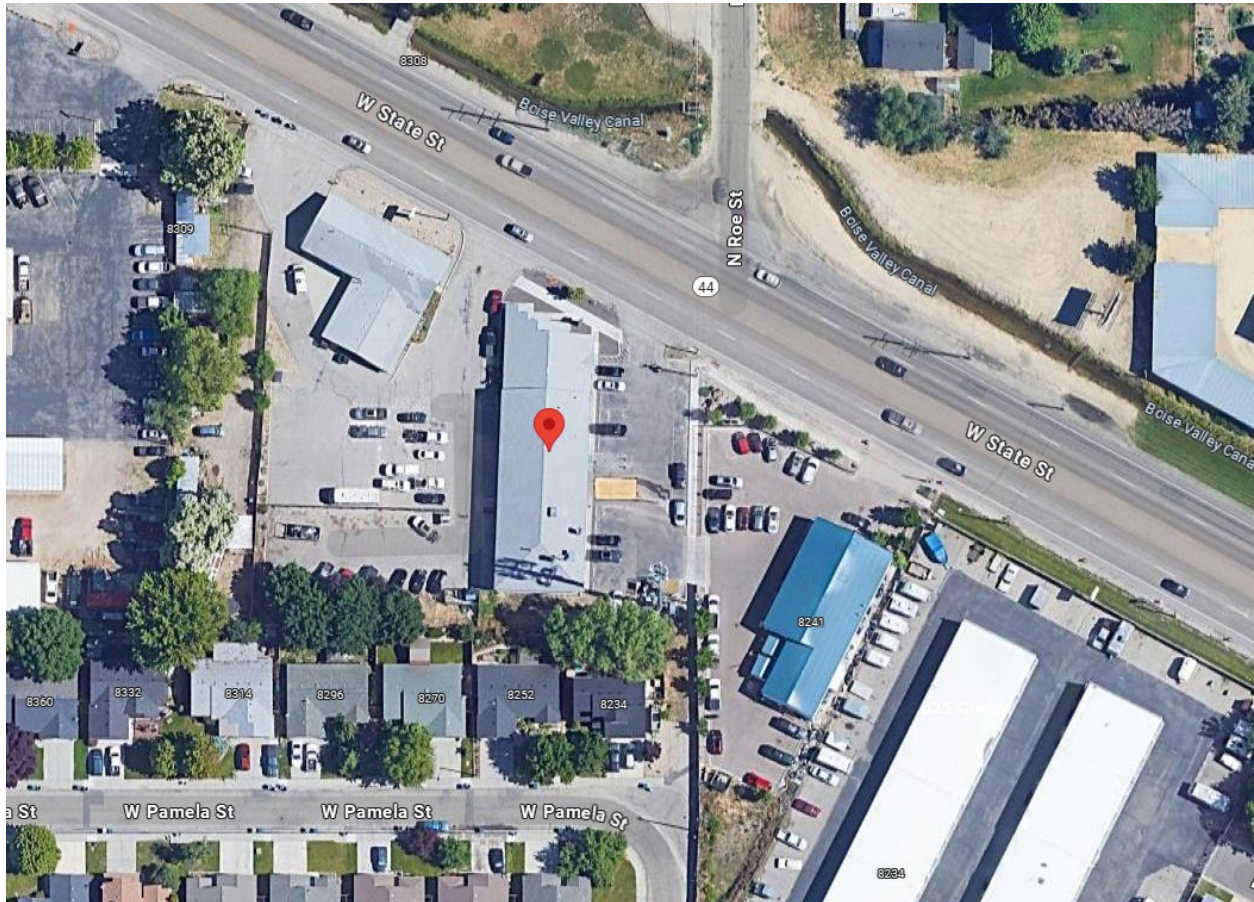
Attachment "C"

PHOTO OF SUBJECT SITE





Attachment “D”
LOCATION MAP





Attachment "E"

AUTHORIZATION TO SUBMIT FOR PERMITS



Crown Castle
1505 Westlake Avenue North
Suite 800
Seattle, WA 98109

March 1, 2023

Re: Crown Castle – PNW
Subject: Gary Abrahams – Authorized Consultant for Crown Castle

Dear Reviewing Parties:

This letter serves to notify you that Crown Castle has retained the services of Gary Abrahams as approved agent to submit application for and obtain local jurisdiction approvals including but not limited to zoning and building permits. This includes applicable permitting for any and all customers seeking to install or modify their equipment on Crown Castle towers.

Please feel free to contact me directly with any questions. Thank you for your expeditious processing of applications filed by Mr. Abrahams.

Sincerely,

Kate Hanstrom

Kate Hanstrom
Site Acquisition Specialist
Kate.Hanstrom@crowncastle.com
(309) 269-7254

May 12, 2025

Garden City Planning
6015 Glenwood Street
Garden City, Idaho 83714

Subject: Compliance Statement and Statement of Intent-AT&T Mobility CUP application

Dear Reviewing Parties:

AT&T Mobility is requesting conditional use permit approval to expand a current legal non-conforming use in the C-2 zone pursuant to Garden City Code § 8-1B-3. The existing facility was lawfully established through Conditional Use Permit 03-17-CU by Garden City on December 17, 2003. Garden City subsequently amended allowed uses in the C-2 zone that excluded Wireless Communication Facilities.

This letter is submitted as the Compliance Statement and Statement of Intent in consideration of the requirement by Garden City for a Design review and conditional use permit application.

Crown ID:	BU: 824322 Application ID: 665802 (AT&T Mobility)
Applicant:	Crown Castle USA Inc. for AT&T Mobility
Preparer for Applicant:	Gary Abrahams GMA Network Services, LLC For Crown Castle USA Inc. 590 – 1 st Ave. South, #705 Seattle, WA 98104 206-349-4279 Gary@GMAnetworkservices.com
Property Owner:	DB II LLC 8247 W. State St. Garden City, ID 83714
Tower/Facility Owner:	Global Signal Acquisitions IV LLC 8247 W. State St. Garden City, ID 83714
Request:	Conditional Use Permit approval to expand an existing legal non-conforming use, pursuant to Garden City Code 8-1B-3
Location:	8247 W. State St. Garden City, Idaho 83714
Parcel #:	R0719420250

Zoning:

C-2 (General Commercial)

AT&T Mobility continues to expand and upgrade its wireless communications network to meet the public's demand for current and future technologies related to wireless services. AT&T Mobility proposes to install antennas and ancillary equipment at the 82-foot, 84-foot and 86-foot (rad centers) levels of the existing 118-foot monopole. AT&T Mobility also proposes to install one (1) walk-up-cabinet and one (1) emergency generator, both proposed to be slab-on-grade, in a new fenced compound surrounded by a new wood fence which complies with Garden City code. Detailed construction drawings are included with this application.

§ 8-1B-3 NONCONFORMING USES:

A. A nonconforming use may continue as long as the use remains lawful and is not abandoned, expanded, or extended, subject to the following provisions:

1. Nonconforming uses, structures, or portions thereof that have been declared dangerous and not abated or are a chronic public nuisance as defined by Garden City code shall lose their nonconforming status for failure to act.

Response: Not applicable as none of the aforementioned has been declared nor are they reasonably applicable to the facility.

2. No existing use or structure containing a nonconforming use may be expanded in intensity or degree of use, enlarged, extended, constructed, reconstructed, moved, or structurally altered except: (a) through the approval of a conditional use permit in accord with the procedures set forth in chapter 6, article B, "Specific Provisions", of this title; or (b) where the use of the structure is changed to a conforming use.

Response: Not applicable. The applicant and parties to the applicant (the "Applicants") do not agree with Garden City staff's interpretation that the proposed collocation constitutes an expansion in intensity or degree of use, enlargement, or extension. The existing facility is a wireless facility that includes a tower and equipment compound. As such the proposed collocation does not change, enlarge or extend that use or facility. Additionally the proposed project is an Eligible Facilities Request. In order to move the project forward this application is submitted under protest in order to satisfy subsection (a) of this section. As such the Applicants have not agreed the proposal is not an Eligible Facility nor waive any rights or remedy under Federal Law including associated Order(s).

3. A nonconforming use may be extended to occupy additional land area only through the approval of a conditional use permit in accordance with the procedures set forth in chapter 6, article B, "Specific Provisions", of this title.

Response: AT&T Mobility has completed a design review process with Garden City under #DSRFY2024-0017. The conditional use permit application is submitted to satisfy City staff's interpretation and position for this subsection. The preceding response is incorporated by reference as it shares applicability to our position to this subsection as well.

4. The nonconforming use shall be deemed to be abandoned and shall not be reestablished if the use of the property is changed. Conducting activity of another use on the property, commencing utility service for another use, or approval of an application to change the use of a property shall be considered change of use.

Response: Not applicable. There is no proposed change of use.

B. A nonconforming use may be changed only to a conforming use.

Response: Not applicable. There is no proposed change of use.

C. If a nonconforming use has ceased for twelve (12) consecutive months and not declared the intent to continue the nonuse of the use or improvements designed for the use, as defined by Idaho Code section [67-6538](#) and approved Garden City procedures, or has been replaced with a conforming use, the nonconforming use shall be deemed abandoned and shall not be reestablished. If a nonconforming use has ceased for ten (10) consecutive years the nonconforming use shall be deemed abandoned and shall not be reestablished regardless of declaration to continue the nonuse of the use or improvements designed for the use.

Response: Not applicable. The legal non-conforming use has not ceased.

8-2C-46: *WIRELESS COMMUNICATION FACILITY:*

A. Setback:

1. A wireless communication facility shall not be located closer than five thousand two hundred eighty feet (5,280') (1 mile) from an existing cellular tower.

Response: Not applicable as a wireless communication facility as defined by the City's code is not proposed. § 8-7A-2 defines a Wireless Communication Facility as (a) *steel monopole, guywire tower, lattice tower or other similar structure designed to support directional antennas, parabolic dishes or antennas, microwave dishes; in addition to associated ground equipment and other similar equipment used in the*

wireless communications industry. The proposed collocation of antennas are to be attached to an **existing** legal non-conforming *Wireless Communication Facility*.

2. *In addition to the setbacks required for the base zoning district as set forth in section 8-2B-3, table 8-2B-2, "Form Standards In All Base Zoning Districts", of this chapter, a support tower for a wireless communication facility shall be set back one foot (1') for every ten feet (10') of the total tower height.*

Response: Not applicable as a new support tower is not proposed.

3. *All equipment shelters, cabinets or other on ground ancillary structures shall meet the setback requirements of the zone.*

Response: AT&T Mobility proposes to expand the fenced area to the west of the existing ground-based equipment to accommodate its equipment cabinet. The required minimum 5-foot setback to all property lines in the C-2 zone will be maintained.

- B. *Height: The maximum height, including all antenna attachments shall be one hundred feet (100') in the C-1 zone and one hundred twenty five feet (125') in the LI zone.*

Response: Not applicable as the existing facility is not within a C-1 or LI zone. As previously stated, the proposed AT&T Mobility installation will be at an existing Wireless Communication Facility that was legally established in 2003.

Further, § 8-2B-3 (E)(2) exempts maximum height limitations as follows: *The maximum height limitations shall not apply to the following: fire and hose tower; power line tower; water tank or tower; windmill; **wireless communication facility, or other commercial or personal tower and/or antenna structure; or other appurtenances** usually required to be placed above the level of the ground and not intended for human occupancy [emphasis added in bold].*

- C. *Collocation: No new towers shall be allowed unless there has been an analysis certified by a qualified engineer and specific to the site that collocation on an existing wireless communication facility is infeasible. Evidence to demonstrate that no existing facility can accommodate the proposed new facility may consist of any of the following:*

1. *No existing towers or structures are located within the geographic area required to meet the proposed facility's requirements;*
2. *Existing structures are not of sufficient height to meet the engineering requirements of the proposed structure;*

3. *Existing structures do not have sufficient structural strength to support the proposed antenna and/or equipment; or*
4. *The proposed antenna would cause electromagnetic interference with the antenna on existing structures, or the antenna on the existing structure would cause similar interference with the proposed antenna.*

Response: Not applicable as a new tower is not proposed.

D. Site Design:

1. *Tower facilities shall be landscaped with a buffer outside the perimeter of the compound in accordance with the standards set forth in subsection 8-4I-5C of this title.*

Response: No landscaping is proposed or required for this project. The AT&T Mobility equipment will be screened with a new wood fence.

2. *Materials, colors, textures and screening shall be used that blend the tower facility to the natural and built environment. Supporting electrical and mechanical equipment installed on the tower shall use colors that are similar to the tower.*

Response: All proposed AT&T Mobility tower-based equipment is factory painted.

3. *Except as required by the federal aviation administration (FAA) or the federal communications commission (FCC), transmission structures shall not be artificially lighted. Equipment shelters may use lighting consistent with the lighting standards set forth in section 8-4A-4, "Outdoor Lighting", of this title.*

Response: No new tower lighting is proposed as part of this application.

- E. Site Maintenance: A wireless communication facility that is no longer in use shall be completely removed and the site restored to its preexisting condition within six (6) months of the cessation of operation.*

Response: The proposed wireless communication facility will be removed within six months of the cessation of operation to the extent that any conflicting law or right that may conflict including legal remedy(s) is not waived should this unlikely event occur.

- F. Other Regulations Apply: The site and structure design shall be subject to review by the design committee and the process set forth in section 8-6B-3 of this title. (Ord. 898-08, 9-8-2008; and. Ord. 944-12, 5-14-2012)*

Response: This section is recognized notwithstanding pre-emptive law and ruling under the Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) and subsequent FCC Infrastructure Orders.

Conclusion

The proposed EFR 6409a application for AT&T Mobility meets all requirements of the Garden City code.

Thank you in advance for your prompt review and approval of this application.

Sincerely,

Gary Abrahams
GMA Network Services, LLC
Agent for Crown Castle USA Inc.



Phone:
www.crowncastle.com

May 12, 2025

CITY OF GARDEN CITY, ID
Planning & Zoning
6015 GLENWOOD STREET
GARDEN CITY, ID 83714-1347

RE: Request for Minor Modification to Existing Wireless Facility – EFR -Section 6409

Site Address: 8247 W State Street, Garden City, ID 83714
Assessors Tax Parcel ID number: R0719420250
Crown Site Number: 824322 / Crown Site Name: GrdnCity_Roe
Customer Site Number: IDL02365 / Application Number: 665802

Affidavit of Legal Interest

Dear City of Garden City,

The City of Garden City is requiring an Affidavit of Legal Interest for the Conditional Use Permit and Design Review permit applications for the proposed modifications at 8247 W. State Street, Garden City, ID (the “**Subject Property**”).

Attached hereto is the Affidavit of Legal Interest signed by Global Signal Acquisitions IV LLC appointing GMA Network Services as authorized representative to submit for permits (see **page 3** of this document).

The prior owner, Blynn Properties LLC (“**Blynn**”) signed a Wireless Communication Easement and Assignment Agreement dated August 18, 2010, with Unison, for a Communication Easement, which includes the Existing Agreements (as defined therein), for the property at 8247 W. State Street, Garden City, ID.

Blynn signed that First Amendment to Wireless Communication Easement and Assignment Agreement with Ulysses (as defined therein), which is successor-in-interest to Unison, dated March 16, 2016 (“**First Amendment**”) that appointed Ulysses as its Attorney-in-Fact, and which was executed by Robert Milter of Blynn. The First Amendment, Section 5, stipulates as follows:

***Attorney-in-fact.** Site Owner hereby confirms, ratifies, acknowledges and affirms that pursuant to the Agreement, it irrevocably appointed Ulysses as its true and lawful attorney-in-fact, with full power of substitution and re-substitution, to apply for and obtain any and all licenses, permits, consents or approvals which may be required in connection with the use of the Easements by Ulysses and as necessary to comply with applicable laws, statutes or regulations as set forth in Section 5 of the Agreement.*

Further, under the Assignment and Assumption of Easement Agreement dated October 3, 2019 (“**Easement**”), Ulysses assigned its respective interest in the Communication Easement, which affects that property previously owned by Blynn and now owned by DBII LLC via that vesting deed in 2020, to Global Signal Acquisitions IV LLC (“**Global**”). The Easement transferred the rights to act as Attorney-in-Fact per Section 5 of the First Amendment to Global.

The Foundation for a Wireless World

CrownCastle.com

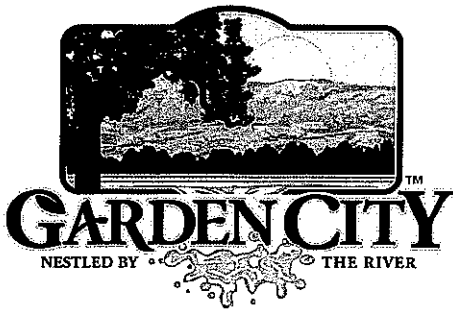


Phone:
www.crowncastle.com

Based upon this documentation, Global has the authority to sign a letter of authorization, or Affidavit of Legal Interest, as the case may be, to submit for any required permits pertaining to the Subject Property.

Let me know if you have any questions.

Thanks,
Gary Abrahams
GMA Network Services, LLC
Agent for Crown Castle USA Inc.



6015 Glenwood Street • Garden City, Idaho 83714
Phone 208 - 472-2921 • Fax 208 - 472-2926 •
www.gardencityidaho.org

Affidavit of Legal Interest

State of Idaho)
County of Harris) SS
Ada)

I, Mandy Hebert, 8020 Varsity Freeway
Name Address
Houston TX 77024
City State and Zip

Being first duly sworn upon oath, depose and say:

1. That I am the record owner of the property described on the attached, and I grant my permission

to GMA Network Services, 590-1st Ave S #705, Seattle, WA 98104
Name Address
to submit the accompanying application pertaining to that property.

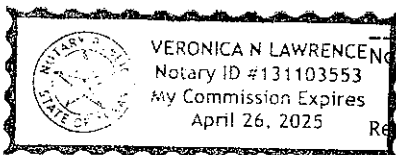
2. I agree to indemnify, defend and hold the City of Garden City and its employees harmless from any claim or liability resulting from any dispute as to the statements contained herein or as to the ownership of the property which is the subject of the application.

3. I hereby grant permission to City of Garden City staff to enter the subject property for the purpose of site inspections related to processing said applications.

Dated this 12/19/24 19th day of December, 2024

Mandy Hebert
Signature

Subscribed and sworn to before me the day and year first above written



Notary Public for Idaho TX

Residing at: Houston, TX

My Commission expires 131103553 | 4/26/25



6015 Glenwood Street • Garden City, Idaho 83714
Phone 208 - 472-2921 • Fax 208 - 472-2926 •
www.gardencityidaho.org

Affidavit of Neighborhood Meeting

State of Idaho)
)SS
County of Ada)

I, GARY Abrahams, 590 1st Ave. South
Name (be full legal name) Address
Seattle WA 98104
City State and Zip

Being first duly sworn upon oath, depose and say:

1. That I provided the attached notice to all individuals owning property within 300' of 8247 W. State St. (project address) Garden City, Idaho.
2. The list of individuals that I sent the notice to include all entities that were on the 300' radius list provided by the city of Garden City.
3. I posted the site in accordance with the requirements found in Garden City Code 8-6A-7. B.1, affidavit thereof attached.
4. The location of the meeting was Via a Zoom call.
5. The date of the meeting was: 04-29-2025, a Monday, Tuesday, Wednesday, Thursday, or Friday (please circle the day of the week). (must be a weekday not less than 10 days ahead of this submittal and not more than three months ahead of this submittal).
6. The time of the meeting was: 6:00 pm. (must be between 5:30pm - 8:00pm)
7. I remained on site from 6:00 pm to 6:40 pm (must be on site a minimum of 30 minutes even if no one is in attendance).
8. The attached sign-in sheet includes all attendees.

Dated this 5th day of May, 2025. [Signature]
Signature

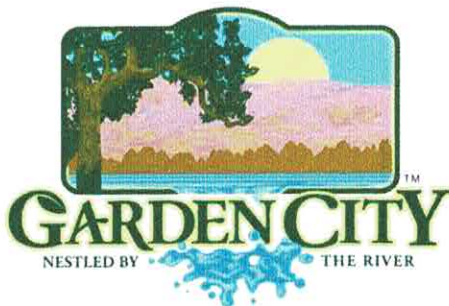
Subscribed and sworn to before me the day and year first above written



Notary Public for ~~Idaho~~ WASHINGTON
Residing at: ISSAQUAH, WA
My Commission expires 6/3/2028

REQUIRED ATTACHEMENTS

1. Neighborhood meeting notice
2. Affidavit of posting
3. Sign in sheet



6015 Glenwood Street • Garden City, Idaho 83714
Phone 208/472-2921 • Fax 208/472-2926 • www.gardencityidaho.org

Affidavit of Property Posting

I, (name) Gary Abrahams do hereby attest that the property located at (site address) 8247 W. State Street, Garden City, Idaho, was posted on (date) 4/16/2025. This posting was for (application numbers)

DSRFY2024-0017 & DSRFY2025-0006. The date of posting was no less than ten (10) days prior to the public hearing for which the application is to be heard in conformance with Section 8-6A-7 of the Garden City Code. The property was posted in compliance with Garden City standards of form, size, lettering, content, and placement for posting property for public notice.

must submit clear and legible photos of the property posting with affidavit

BY: [Signature] Gary Abrahams

TITLE - Agent for AT&T and Dish

State of ~~Idaho~~^{FK} WASHINGTON

County of ~~Ada~~^{FK} KING

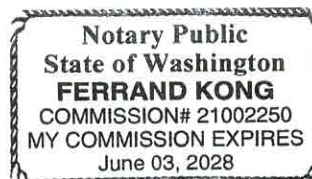
On this 5th day of MAY (month), 2025 (year), before me, the undersigned, a Notary Public in and for said State, personally appeared GARY M. ABRAHAMS (person responsible for posting) known or identified to me to be the person whose name is subscribed to be the foregoing instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public for ~~Idaho~~^{FK} WASHINGTON

Residing at ISSAQUAH, WA

Commission Expires: 6/3/2028



NEIGHBORHOOD MEETING NOTICE FOR A PROJECT IN YOUR NEIGHBORHOOD

4/12/2025

To whom it may concern:

You are invited to a neighborhood meeting to discuss a project we are proposing near your property. The purpose of the meeting is to discuss the project, answer any questions, and listen to your feedback and suggestions.

**A NEIGHBORHOOD MEETING WILL BE HELD ON TUESDAY, APRIL 29, 2025 @ 6:00 PM
TO DISCUSS PROPOSED MODIFICATIONS TO AN EXISTING WIRELESS FACILITY AT
8247 W. STATE STREET, GARDEN CITY, ID 83714 (project file numbers and project
descriptions below)**

***THE NEIGHBORHOOD MEETING WILL BE HELD VIA ZOOM AND CAN BE ACCESSED
ON- LINE OR VIA PHONE AT THE LINKS BELOW:***

TO JOIN ONLINE:

<https://zoom.us/j/99855224236?pwd=0TkY1MaGhxFlWfv1OukbqmGEh6QqXs.1>

Meeting ID: 998 5522 4236

Passcode: 664870

TO JOIN VIA PHONE:

+1-253-205-0468

Meeting ID: 998-5522-4236#

Passcode: *664870#

If you would like to contact us ahead of the meeting, please feel free to reach us at 206-349-4279 or via email at gary@gmanetworkservices.com.

To contact the Garden City Planning Dept., (please note the DRB number referenced below in any communication):
PLANNING@GARDENCITYIDAHO.ORG (also see form attached at the end of this notice)

We look forward to hearing from you. After the neighborhood meeting, this application will be scheduled for review with the city. This application's review with the City may take place as soon as 15 days after the neighborhood meeting. If you provided written comments to the city seven days prior to the applicant's consultation, your comments will be reviewed as part of the application. **Please note:** If you wish to be an interested party or have the ability to appeal you must notify the City in writing. The City will inform interested parties of any revised materials that are submitted. **You cannot appeal the application unless you have standing as prescribed in Idaho Code (Idaho Code 67-6521) and provide a written comment to the city seven days prior to the application's formal review with the City.**

Thank you,

Gary Abrahams

For Crown Castle USA Inc., on behalf of AT&T Wireless and Dish Wireless, L.L.C

AT&T Wireless proposes to collocate at this existing wireless facility:

AT&T City of Garden City DRB application #DSRFY2024-0017 (Design Review)

With the following scope of work:

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. BRING POWER / FIBER TO SITE LOCATION
2. ADD AT&T APPROVED 6'X6' CONCRETE WALK IN CABINET (CWUC) & ASSOCIATED INTERIOR EQUIPMENT
3. ADD NEW COMPOUND FENCE
4. ADD (1) 30KW AC DIESEL GENERATOR
5. ADD (1) NEW GPS UNIT
6. ADD (3) VFA12-HD-WLL SECTOR MOUNTS ON (E) MONOPOLE
7. ADD (12) ANTENNAS, (4) PER SECTOR
8. ADD (9) RRHs, (3) PER SECTOR
9. ADD (3) DC9 SURGE SUPPRESSORS, (1) PER SECTOR
10. ADD (6) DC TRUNKS
11. ADD (3) FIBER TRUNKS

Dish Wireless, L.L.C. proposes to also collocate at this existing wireless facility:

Dish Wireless City of Garden City DRB application #DSRFY2025-0006 (Design Review)

With the following scope of work:

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

TOWER SCOPE OF WORK:

- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR)
- INSTALL (3) PROPOSED SECTOR MOUNTS (1 PER SECTOR)
- INSTALL (6) PROPOSED RRU_s (2 PER SECTOR)
- INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
- INSTALL (1) PROPOSED HYBRID CABLE
- INSTALL (1) PROPOSED JUMPER

GROUND SCOPE OF WORK:

- INSTALL WOODEN FENCED COMPOUND
- INSTALL (1) PROPOSED EQUIPMENT PAD
- INSTALL (1) PROPOSED ICE BRIDGE
- INSTALL (1) PROPOSED PPC
- INSTALL (1) PROPOSED EQUIPMENT CABINET
- INSTALL (1) PROPOSED POWER CONDUIT
- INSTALL (1) PROPOSED TELCO CONDUIT
- INSTALL (1) PROPOSED TELCO-FIBER BOX
- INSTALL (1) PROPOSED GPS UNIT
- INSTALL (1) PROPOSED TECH LIGHT
- INSTALL (1) PROPOSED FIBER NID (IF REQUIRED)
- INSTALL (1) PROPOSED 200A METER

If you wish to be an interested party or may wish to appeal the City's decision, please provide the City with the following information via email: planning@gardencityidaho.org.

Or mail to:

**Attn: Development Services Department
6015 N Glenwood St
Garden City, ID 83714.**

File Number: _____

I wish to be an interested party: ☐Yes ☐No

I wish to have the ability to appeal: ☐Yes ☐No

Name: _____

Email: _____

Physical Address: _____

Which elements are of concern: ☐Massing ☐
Architectural elements ☐Connectivity
☐Landscaping ☐Water features ☐Site layout
☐Other: _____

Please elaborate:

Signature

Date

Clinton McCaleb
12862 N. 10th Ave.
Boise, ID 83714 - 0000

Kimberly Jean Elder
8252 W. Pamela St.
Garden City, ID 83714- 0000

MHC Shenandoah Estates LLC
917 W. Washington MS 316
Chicago, IL 60607 - 0000

Murdock Taylor Lee David
1446 Caravan St
Kuna, ID 83634-0000

Judith A Henry
8270 W Pamela St.
Boise, ID 83714- 0000

RL Properties LP
9839 W Cable Car St. Ste. 101
Boise, ID 83709 - 0000

David Hatfield
1464 E Territory Dr.
Meridian, ID 83646 - 6547

Michael W. Sommer
8279 W. Pamela St.
Garden City, ID 83714 - 0000

DBII LLC
9884 Stony Brook Way
Middleton, ID 83644-0000

Shelly J. Hatch
2804 S. Blackspur Way
Meridian, ID 83642 - 0000

Jeffrey Stevenson
8314 W. Pamela St.
Garden City, ID 83714 - 0000

8309 W. State Street LLC
PO Box 1281
Eagle, ID 83616 - 0000

State of Idaho (Dept. of Lands)
300 N. 6th St.
Boise, ID 83702 - 0000

Leslie Renee Dunn
8315 W. Pamela St.
Garden City, ID 83714 - 0000

HFP REDLEG 12 LLC
PO Box 140111
Garden City, ID 83714 - 0000

Charles Ray Peterson
307 E 680 North
Lindon, UT 84042-0000

Andrea Chu
8332 W Pamela St.
Garden City, ID 83714 - 0000

SI Five LLC
PO Box 140337
Boise, ID 83714 - 0000

John W. Biss
499 S Meridian Rd
Meridian, ID 83642 - 0000

Gerard J Halpin
8333 W Pamela St.
Garden City, ID 83714-0000

Gary Abrahams
590 – 1st Ave. South, #705
Seattle, WA 98104

LLV II LLC
5321 W Hidden Springs Dr.
Boise, ID 83714 - 0000

Laird Lyons Family Trust
8351 W Pamela St.
Garden City, ID 83714 - 0000

Mariia Antonova
Assistant Planner
City of Garden City, Dev. Services
6015 Glenwood St.
Garden City, ID 83714

Larry D Carroll
8151 W Kerry St.
Boise, ID 83714-0000

State of Idaho (Dept. of Forestry)
8355 W. State St.
Boise, ID 83714 - 6071

Emily Marie LaFrance
8234 W Pamela St.
Garden City, ID 83714 - 0000

Morgan Daniel
8360 W. Pamela St.
Garden City, ID 83714 - 0000

PRIMOWNER	ADDCONCAT	STATCONCAT
MCCALEB CLINTON	12862 N 10TH AVE	BOISE, ID 83714-0000
MURDOCK TAYLOR LEE DAVID	1446 W CARAVAN ST	KUNA, ID 83634-0000
HATFIELD DAVID	1464 E TERRITORY DR	MERIDIAN, ID 83646-6547
HATCH SHELLEY J	2804 S BLACKSPUR WAY	MERIDIAN, ID 83642-0000
STATE OF IDAHO (DEPT OF LANDS)	300 N 6TH ST	BOISE, ID 83702-0000
PETERSON CHARLES RAY	307 E 680 N	LINDON, UT 84042-0000
BISS JOHN W	499 S MERIDIAN RD	MERIDIAN, ID 83642-0000
LLV II LLC	5321 W HIDDEN SPRINGS DR	BOISE, ID 83714-0000
CARROLL LARRY D	8151 W KERRY ST	BOISE, ID 83714-0000
LAFRANCE EMILY MARIE	8234 W PAMELA ST	GARDEN CITY, ID 83714-0000
ELDER KIMBERLEY JEAN	8252 W PAMELA ST	GARDEN CITY, ID 83714-0000
HENRY JUDITH A	8270 W PAMELA ST	BOISE, ID 83714-0000
SOMMER MICHAEL W	8279 W PAMELA ST	GARDEN CITY, ID 83714-0000
STEVENSON JEFFREY	8314 W PAMELA ST	GARDEN CITY, ID 83714-0000
DUNN LESLIE RENEE	8315 W PAMELA ST	GARDEN CITY, ID 83714-0000
CHU ANDREA	8332 W PAMELA ST	GARDEN CITY, ID 83714-0000
HALPIN GERARD J	8333 W PAMELA ST	GARDEN CITY, ID 83714-0000
LAIRD LYONS FAMILY TRUST 04/12/2023	8351 W PAMELA ST	GARDEN CITY, ID 83714-0000
STATE OF IDAHO (DEPT OF FORESTRY)	8355 W STATE ST	BOISE, ID 83714-6071
DANIEL MORGAN	8360 W PAMELA ST	GARDEN CITY, ID 83714-0000
MHC SHENANDOAH ESTATES LLC	917 W WASHINGTON MS 316	CHICAGO, IL 60607-0000
RL PROPERTIES LP	9839 W CABLE CAR ST STE 101	BOISE, ID 83709-0000

DBII LLC	9884 STONY BROOK WAY	MIDDLETON, ID 83644-0000
8309 W STATE STREET LLC	PO BOX 1281	EAGLE, ID 83616-0000
HFP REDLEG 12 LLC	PO BOX 140111	GARDEN CITY, ID 83714-0000
SI FIVE LLC	PO BOX 140337	BOISE, ID 83714-0000

Neighborhood Meeting Sign-in Sheet Template

Day: Tuesday

Date: 4/29/2025

Time: 6:00 PM

Project Synopsis:

AT&T proposes to install ground based equipment, including a walk-in-cabinet, at the base of the monopole. AT&T will install antennas and associated equipment on the monopole. Dish proposes to install ground based equipment, including (1) equipment cabinet, at the base of the monopole. Dish will install antennas and associated equipment on the monopole. Both projects require a CUP.

[illegible]

NEIGHBORHOOD MEETING NOTICE

TUESDAY: APRIL 29, 2025 @6:00PM

TO BE HELD ONLINE VIA ZOOM, AT THE FOLLOWING LINK
[HTTPS://ZOOM.US/J/99855224236?pwd=DTKY1MAGHXFLWFV1OUKBOMSEH600XS.1](https://zoom.us/j/99855224236?pwd=DTKY1MAGHXFLWFV1OUKBOMSEH600XS.1) OR CALL 253-205-0468

MEETING ID: 998-5522-4236# PASSCODE: 664870#

NEIGHBORHOOD MEETING IS TO DISCUSS TWO (2) PROPOSED
WIRELESS PROJECTS AT 8247 W. STATE STREET, GARDEN CITY, ID

AT&T DRB #DSRFY2024-0017

DISH WIRELESS, L.L.C. DRB# DSRFY2025-0006
FOR QUESTIONS: APPLICANT: GARY ABRAHAMS, FOR
CROWN CASTLE, 206-349-4279
OR GARDEN CITY: PLANNING@GARDENCITYIDAHO.ORG

IS20



IDAHO
LA POPA

NEIGHBORHOOD MEETING NOTICE

TUESDAY: APRIL 29, 2025 @6:00PM

TO BE HELD ONLINE VIA ZOOM, AT THE FOLLOWING LINK
[HTTPS://ZOOM.US/J/99855224236?pwd=0TKY1MAGHXFL](https://zoom.us/j/99855224236?pwd=0TKY1MAGHXFLWFV1OUKBQMGH6QQXS.1)

WFV1OUKBQMGH6QQXS.1 OR CALL 253-206-0468

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DISH WIRELESS, L.L.C. DRB# DSRFY2025-0006

FOR QUESTIONS: APPLICANT: GARY ABRAHAMS, FOR

CROWN CASTLE, 206-349-4279,

OR GARDEN CITY: PLANNING@GARDENCITYIDaho.ORG



02.26.2025 1



02.26.2025 1



02.26.2025 1



02.26.2025



02.26.2025 1



8247 W STATE STREET
BOISE, ID 83714
JURISDICTION: ADA COUNTY

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

 **CROWN
CASTLE**
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286



7670 S. CHESTER ST.
CENTENNIAL, CO 80112



TELCYTE
INFRASTRUCTURE SERVICES

3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

CHECKED BY: CM

PRELIMINARY CD'S

TITLE SHEET

T-1

[illegible]

GENERAL CONSTRUCTION NOTES:

GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR: T.B.D.
CONTRACTOR: T.B.D.
OWNER: AT&T
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 AND RF. 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.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

41. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
42. 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.
43. 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.
44. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
45. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.

46. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
47. ALL UNUSED PORTS ON ANY ANTENNA SHALL BE COVERED WITH CONCEALOR CAP WITH PROPER WEATHER PROOFING OR BE TERMINATED WITH A 50 Ω LOAD.
48. 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.
49. JUMPERS WHERE REQUIRED MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
50. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH AT&T COMPONENT
51. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION (IF REQUIRED).

TORQUE REQUIREMENTS

52. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
53. 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.
54. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
55. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).

56. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.

57. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 - 29.8 NM).

58. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 - 2.3 NM).

FIBER & POWER CABLE MOUNTING

59. 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 (6) SIX FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
60. 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.
61. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

AT&T Site ID:

IDL02365

8247 W STATE STREET

BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

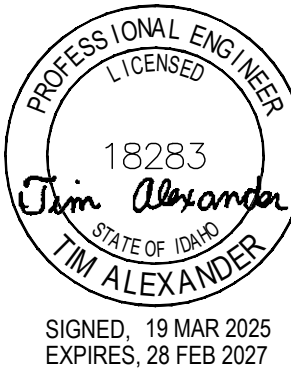
BU NO: 824322

DRAWN BY: NP

CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
3	12/08/22	JDX COMMENTS
4	01/16/23	CLIENT COMMENTS
5	07/18/24	CLIENT COMMENTS
6	08/19/24	CLIENT COMMENTS
7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licensior:



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Issued For:

3/19/25

PRELIMINARY CD'S

SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:

GN-1

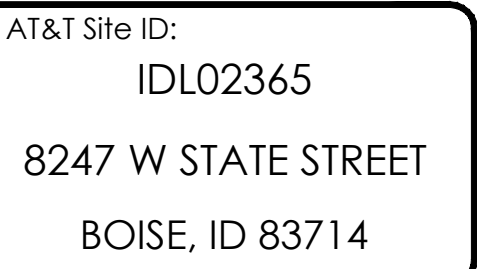
COAXIAL CABLE NOTES

- ## GENERAL CABLE AND EQUIPMENT NOTES

- ### DRAWING ABBREVIATIONS

LEGEND

- CHAIN LINK FENCE
WOOD/WROUGHT IRON FENCE
WALL STRUCTURE
LEASE AREA
PROPERTY LINE (PL)
SETBACKS
ICE BRIDGE
CABLE TRAY
WATER LINE
UNDERGROUND POWER
UNDERGROUND TELCO
OVERHEAD POWER
OVERHEAD TELCO
UNDERGROUND TELCO/POWER
ABOVE GROUND POWER
ABOVE GROUND TELCO
ABOVE GROUND TELCO/POWER



Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

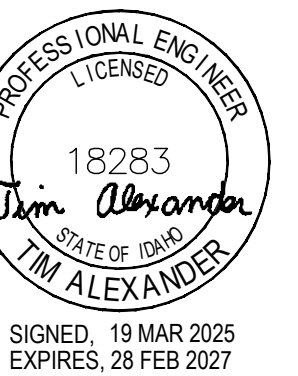
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Licensors:



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Issued For:

3/19/25

PRELIMINARY CD'S

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-2

GENERAL SITE WORK & DRAINAGE NOTES:

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
 - 1. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- 2.1 SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2 NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE. FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.3 POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS IA, IB OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95. FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- 2.5 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.7 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- 2.8 GEOTEXTILE FABRIC: MIRAFI 500X OR ENGINEERED APPROVED EQUAL.

2.9 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
 - 1. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
 - 2. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
 - 3. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.

- A. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- B. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- C. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
 - 1. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
 - 2. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
 - 3. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.

- B. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 AGGREGATE ACCESS ROAD:

- A. CLEAR, GRUB, STRIP AND EXCAVATE FOR THE ACCESS ROAD TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. SCARIFY TO A DEPTH OF 6 INCHES AND PROOF-ROLL. ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS SHALL BE CORRECTED.
- B. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557.
- C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE THE GEOTEXTILE FABRIC (MIRAFI 500Xi) SHALL BE INSTALLED TO THE LIMITS INDICATED ON THE DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG THE ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, ROLLING OUT AS SMOOTHLY AS POSSIBLE.

- 1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH (I.E. WITHIN THE SHOULDER WIDTH) ONLY. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3 FEET WIDE.

- 2. TRANSVERSE (PERPENDICULAR TO THE ROADWAY) OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3 FEET.

- 3. ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS A MINIMUM OF 10 INCHES LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25 FOOT CENTERS AND TRANSVERSE SEAMS EVERY 5 FEET.

- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 4 INCH (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. THE FIRST LIFT SHALL BE BLADED DOWN TO A THICKNESS OF 8 INCHES PRIOR TO COMPACTION. AT NO TIME SHALL EQUIPMENT, EITHER TRANSPORTING THE AGGREGATE OR GRADING THE AGGREGATE, BE PERMITTED ON THE ROADWAY WITH LESS THAN 4 INCHES OF MATERIAL COVERING THE FABRIC.

- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE MODIFIED PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, OR WITH A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE-WHEEL OR TANDEM ROLLER.

3.6 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" - 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:



2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:



7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

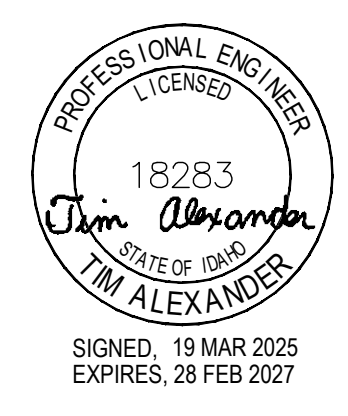


3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO:	IDL02365
BU NO:	824322
DRAWN BY:	NP
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REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CDS
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
3	12/08/22	JDX COMMENTS
4	01/16/23	CLIENT COMMENTS
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6	08/19/24	CLIENT COMMENTS
7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

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SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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Issued For:

3/19/25

PRELIMINARY CD'S

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-3

GENERAL CONCRETE WORK NOTES:

PART 1 - GENERAL

1.1 SCOPE:

- A. FORM WORK, REINFORCING STEEL, ACCESSORIES, CAST-IN PLACE CONCRETE, FINISHING, CURING AND TESTING FOR STRUCTURAL CONCRETE FOUNDATIONS.

1.2 REFERENCES:

- A. ACI (AMERICAN CONCRETE INSTITUTE)

1. ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.

2. ACI 304 RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE.

3. ACI 305 RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING.

4. ACI 306 RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING.

5. ACI 308 STANDARD PRACTICE FOR CURING CONCRETING.

6. ACI 309 STANDARD PRACTICE FOR CONSOLIDATION OF CONCRETE.

7. ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

8. ACI 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.

- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS). THE APPLICABLE STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS ARE LISTED IN THE ACI STANDARDS AND ARE A PART OF THIS SPECIFICATION.

PART 2 - PRODUCTS

2.1 REINFORCING MATERIALS:

- A. REINFORCING BARS: ASTM A615, GRADE 60, PROPOSED DEFORMED BILLET-STEEL BARS, PLAIN FINISH.

- B. FURNISH CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS AS REQUIRED FOR SUPPORT OF REINFORCING STEEL AND WIRE FABRIC.

2.2 CONCRETE MATERIALS:

- A. PORTLAND CEMENT SHALL BE TYPE II, CONFORMING TO ASTM C-150.

- B. AGGREGATE SHALL CONFORM TO ASTM C-33.

1. FINE AGGREGATE SHALL BE UNIFORMLY GRADED, CLEAN SHARP, WASHED NATURAL, OR CRUSHED SAND, FREE FROM ORGANIC IMPURITIES.

2. COARSE AGGREGATE SHALL BE NATURAL WASHED GRAVEL OR WASHED CRUSHED ROCK HAVING HARD, STRONG, DURABLE PIECES, FREE FROM ADHERENT COATINGS.

3. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 INCH IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C-33 GRADATION SIZE NO. 67.

- C. WATER USED IN CONCRETE MIX SHALL BE POTABLE, CLEAN, AND FREE FROM OILS, ACIDS, SALTS, CHLORIDES, ALKALI, SUGAR, VEGETABLE, OR OTHER INJURIOUS SUBSTANCES.

- D. THE CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-260 AND ACI 212. 1R AND A WATER- REDUCING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-494 AND ACI 212. 1R. ADMIXTURES SHALL BE PURCHASED AND BATCHED IN LIQUID SOLUTION. THE USE OF CALCIUM CHLORIDE OR AN ADMIXTURE CONTAINING CALCIUM CHLORIDE IS PROHIBITED. ADMIXTURES SHALL BE OF THE SAME MANUFACTURER TO ASSURE COMPATIBILITY. ACCEPTABLE MANUFACTURERS ARE:

1. W.R. GRACE

2. SIKA CORP.

3. MASTER BUILDERS

4. EUCLID CHEMICAL CO.

- E. CURING COMPOUND SHALL CONFORM TO ASTM C309, TYPE I, ID, CLASS A AND B AND ASTM C171 AS APPLICABLE.

2.3 CONCRETE MIX:

- A. PROPORTION CONCRETE MIX IN ACCORDANCE WITH REQUIREMENTS OF ACI 301. THE STRENGTH OF CONCRETE SHALL BE AS INDICATED ON THE DRAWINGS. WHERE STRENGTH IS NOT CLEARLY INDICATED, CONCRETE OF MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. SHALL BE USED.

- B. THE CONCRETE MIX SHALL BE DESIGNED FOR A MAXIMUM SLUMP OF THREE INCHES AT THE POINT OF DISCHARGE. MIXES OF THE STIFFEST CONSISTENCY THAT CAN BE EFFICIENTLY PLACED SHALL BE USED.

- C. ALL CONCRETE SHALL HAVE (3) TO FIVE (5) PERCENT ENTRAINED AIR.

- D. ALL STRUCTURAL CONCRETE SHALL CONTAIN A WATER-REDUCING AGENT.

PART 3 - EXECUTION

3.1 GENERAL:

- A. CONSTRUCT AND ERECT THE FORM WORK IN ACCORDANCE WITH ACI 301 AND ACI 347.

- B. COLD-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.

- C. HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.

3.2 INSERTS, EMBEDDED COMPONENTS AND OPENINGS:

- A. CONTRACTOR SHALL CHECK ALL CIVIL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS AND OTHER ITEMS TO BE BUILT INTO THE CONCRETE WORK.

- B. COORDINATE THE WORK OF OTHER SECTION IN FORMING AND SETTING OPENINGS. RECESSES, SLOTS, CHASES, ANCHORS, INSERTS AND OTHER ITEMS TO BE EMBEDDED.

- C. EMBEDDED ITEMS SHALL BE SET ACCURATELY IN LOCATION, ALIGNMENT, ELEVATION AND PLUMBNESS, LOCATE AND MEASURE FROM ESTABLISHED SURVEYED REFERENCE BENCHMARKS.

- D. EMBEDDED ITEMS SHALL BE ANCHORED INTO PLACE IN A MANNER TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT AND CONSOLIDATION. COMPONENTS FORMING A PART OF A COMPLETE ASSEMBLY SHALL BE ALIGNED BEFORE ANCHORING INTO PLACE. PROVIDE TEMPORARY BRACING, ANCHORAGE, AND TEMPLATES AS REQUIRED TO MAINTAIN THE SETTING AND ALIGNMENT.

3.3 REINFORCEMENT PLACEMENT:

- A. PLACE REINFORCEMENT ACCORDING TO CHECKED AND RELEASED DRAWINGS AND IN ACCORDANCE WITH ACI 301 AND ACI 318.

- B. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT FROM FORM WORK CONSTRUCTION OR CONCRETE PLACEMENT AND CONSOLIDATION. SUPPORT REINFORCING ON METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS AND HANGERS.

- C. SPLICES OF REINFORCING BARS SHALL BE CLASS B UNLESS SHOWN OTHERWISE ON THE DRAWINGS. SPLICES SHALL BE STAGGERED. FULL DEVELOPMENT LENGTH SHALL BE PROVIDED ACROSS JOINTS.

- D. LOCATE REINFORCING TO PROVIDE CONCRETE COVER AND SPACING SHOWN ON THE DRAWINGS. MINIMUM COVER SHALL BE AS REQUIRED BY ACI 318.

- E. WELDING OF AND TO ANY REINFORCING MATERIALS INCLUDING TACK WELDING OF CROSSING BARS IS STRICTLY PROHIBITED.

3.4 CONCRETE PLACEMENT:

- A. PRIOR TO PLACING CONCRETE, THE FORMS AND REINFORCEMENT SHALL BE THOROUGHLY INSPECTED; ALL TEMPORARY BRACING, TIES AND CLEATS REMOVED; ALL OPENINGS FOR UTILITIES PROPERLY BOXED; ALL FORMS PROPERLY SECURED IN THERE CORRECT POSITION AND MADE TIGHT. ALL REINFORCEMENT AND EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATIONS. ALL OLD AND DRY CONCRETE AND DIRT SHALL BE CLEANED OFF AND ALL STANDING WATER AND OTHER FOREIGN MATERIAL REMOVED.

- B. PLACING CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 304 AND SHALL BE CARRIED OUT AT SUCH A RATE THAT THE CONCRETE PREVIOUSLY PLACED IS STILL PLASTIC AND INTEGRATED WITH THE FRESHLY PLACED CONCRETE. CONCRETING ONCE STARTED, SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED. NO COLD JOINTS SHALL BE ALLOWED.

- C. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED AND COMPACTED BY VIBRATION SPACING, RODDING, OR FORKING DURING THE OPERATION OF PLACING AND DEPOSITING IN ACCORDANCE WITH ACI 309. THE CONCRETE SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS, AND INTO THE CORNER OF THE FORMS SO AS TO ELIMINATE ALL AIR AND STONE POCKETS.

3.5 FINISHING:

- A. FINISHING OF THE FLOOR SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1 SECTION 7.2 WITH A MINIMUM OF THREE TROWELINGS. THE SLAB FINISH TOLERANCE AS MEASURED IN ACCORDANCE WITH ASTM E 1155 SHALL HAVE AN OVERALL TEST NUMBER FOR FLATNESS, FF= 20 AND FOR LEVEL. FL=15. THE MINIMUM LOCAL NUMBER FOR FLATNESS, FF= 15 AND FOR LEVEL FL=10.

- B. SURFACE OF FLOOR SLAB SHALL RECEIVE TWO COATS OF CLEAR SEALER/HARDNER.

- C. ABOVE GRADE WALL SURFACES SHALL HAVE A SMOOTH FORM FINISH AS DEFINED IN CHAPTER 10 OF ACI 301.

3.6 CURING:

- A. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT AND COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMUM MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE.

- B. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT, IMMEDIATELY FOLLOWING THE INITIAL CURING. BEFORE THE CONCRETE HAS DRIED. ADDITIONAL CURING SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING MATERIALS OR METHODS:

1. PONDING OR CONTINUOUS SPRINKLING.

2. ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET.

3. NON-ABSORPTIVE FILM (POLYETHYLENE) OVER PREVIOUSLY SPRINKLED SURFACE.

4. SAND OR OTHER COVERING KEPT CONTINUOUSLY WET.

5. CONTINUOUS STEAM (NOT EXCEEDING 150 F) OR VAPOR MIST BATH.

6. SPRAYED- ON CURING COMPOUND APPLIED IN TWO COATS, SPRAYED IN PERPENDICULAR DIRECTION

- C. THE FINAL CURING SHALL CONTINUE UNTIL THE CUMULATIVE NUMBER OF DAYS OR FRACTION THEREOF, NOT NECESSARILY CONSECUTIVE, DURING WHICH TEMPERATURE OF THE AIR IN CONTACT WITH CONCRETE IS ABOVE 50F HAS TOTALED SEVEN (7) DAYS. CONCRETE SHALL NOT BE PERMITTED TO FREEZE DURING THE CURING PERIOD. RAPID DRYING AT THE END OF THE CURING PERIOD SHALL BE PREVENTED.

AT&T Site ID:

IDL02365

8247 W STATE STREET

BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

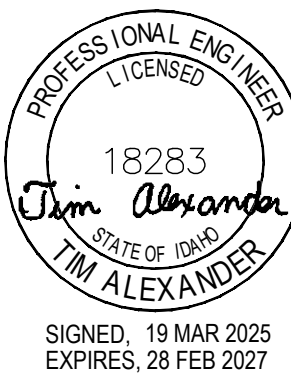
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PRELIMINARY CD'S

SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:

GN-4

GENERAL ELECTRICAL NOTES:

PART 1 - GENERAL

1.1 GENERAL CONDITIONS:

A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.

B. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.

C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

1.3 REFERENCES:

A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.

1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
7. UL (UNDERWRITERS LABORATORIES, INC.)
8. AT&T GROUNDING AND BONDING STANDARDS TP-76416

1.4 SCOPE OF WORK:

A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.

B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.

D. THE CONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.

E. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PART 2 - PRODUCTS

2.1 GENERAL:

A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.

B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.

C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PER THE GOVERNING JURISDICTION.

2.2 MATERIALS AND EQUIPMENT:

A. CONDUIT:

1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
2. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED.
3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. CONDUCTORS AND CABLE:

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL
5. BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL.

D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:

1. INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM #2 AWG CU EXOTHERMALLY WELDED PIGTAIL, PROTECTIVE BOXES, AND BACKFILL MATERIAL. MANUFACTURER SHALL BE LYNCOLE XIT GROUNDING ROD TYPES K2-(")CS OR K2L-(")CS (") LENGTH AS REQUIRED.
 2. GROUND ACCESS BOX SHALL BE A POLYPLASTIC BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH COVER WITH "BREATHER" HOLES, XIT MODEL #XB-22. ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.
 3. BACKFILL MATERIAL SHALL BE LYNCONITE AND LYNCOLE GROUNDING GRAVEL.
- E. SYSTEM GROUNDING:
1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
 2. GROUNDING BUSES SHALL BE BARE, TINNED, ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
 3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH CLEAR HEAT SHRINK FOR MECHANICAL CONNECTIONS. USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.
 4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
 5. GROUND RODS SHALL BE ERICO #615800, COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
 6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

F. OTHER MATERIALS:

1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

G. PANELS AND LOAD CENTERS:

1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.

PART 3 - EXECUTION

3.1 GENERAL:

A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.

B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.

C. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
2. PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. INSTALL SCH. 40 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER ROADWAYS, PARKING LOTS, STREETS, AND ALLEYS. CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON-TRAFFIC APPLICATIONS (REFER TO 2011 NEC, TABLE 300.5).
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
5. A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
10. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
11. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
13. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

B. CONDUCTORS AND CABLE:

1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	208/240/120 VOLT SYSTEMS
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUNDING	GREEN

2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDUITS APPROVED FOR THIS PURPOSE.

3. PULLING LUBRICANTS SHALL BE UL APPROVED. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.

4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS TP-76416, ND-00135, AND THE NATIONAL ELECTRICAL CODE.

2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

3. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN

4. GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUND RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN #2 AWG COPPER. ROOFTOP GROUND RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.

5. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING. CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING

6. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE GROUNDING SYSTEM. EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

7. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.

8. APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED.

9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.

10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.

11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.

12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.

13. THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.

14. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.

15. IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUND BAR AT THE BASE OF THE TOWER, A SECOND GROUND BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTORS

16. CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.

3.5 ACCEPTANCE TESTING

A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.

B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.

C. TEST PROCEDURES:

1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.

2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.

3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES

4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

AT&T Site ID:

IDL02365

8247 W STATE STREET

BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

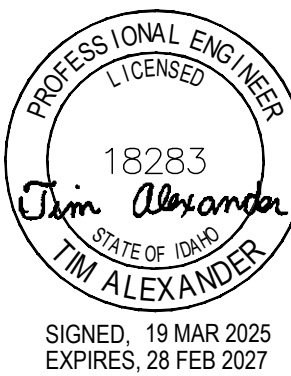
BU NO: 824322

DRAWN BY: NP

CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
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3	12/08/22	JDX COMMENTS
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7	01/14/25	CLIENT COMMENTS
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10	03/19/25	CLIENT COMMENTS

Licensor:



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Issued For:

3/19/25

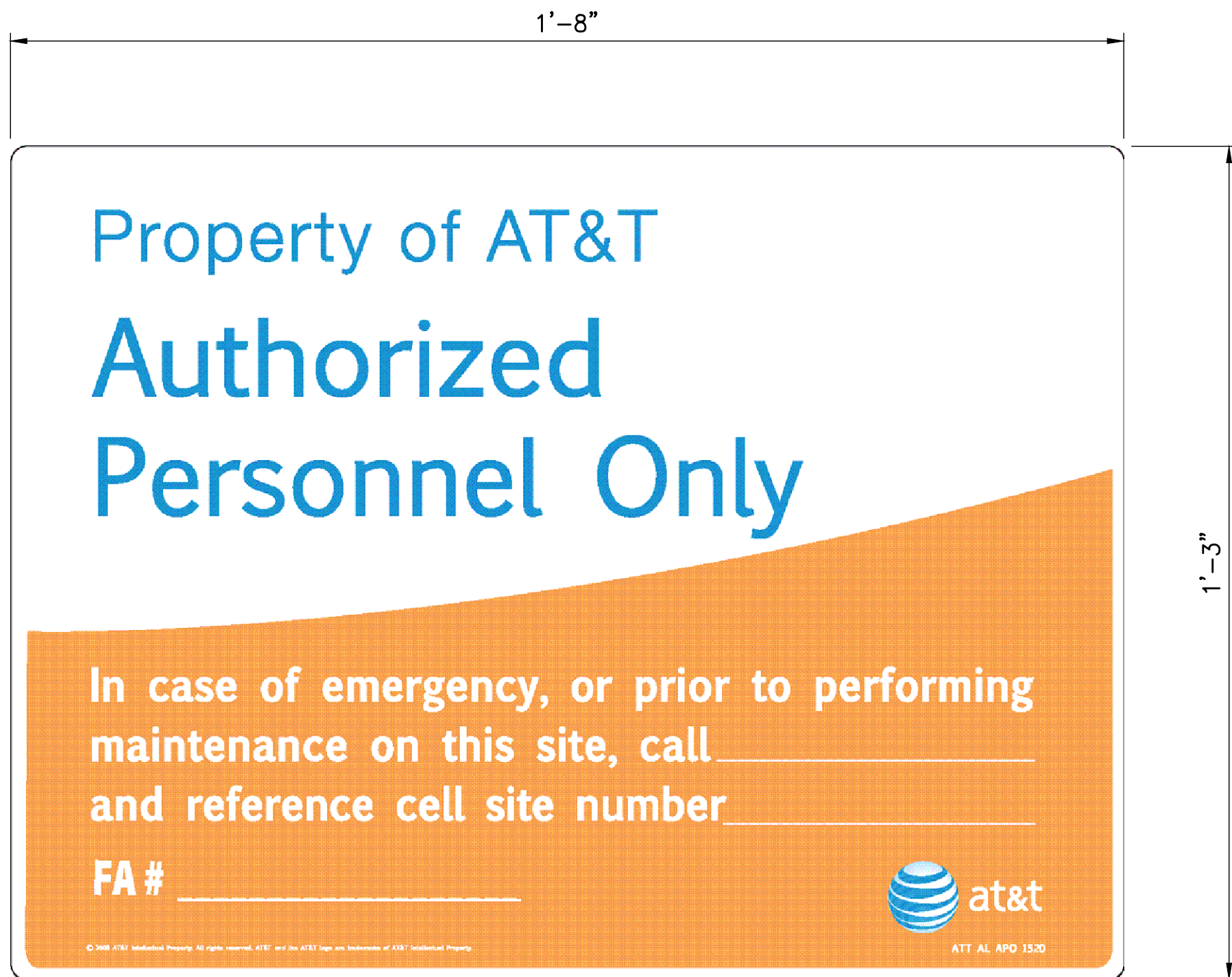
PRELIMINARY CD'S

SHEET TITLE:

GENERAL
NOTES

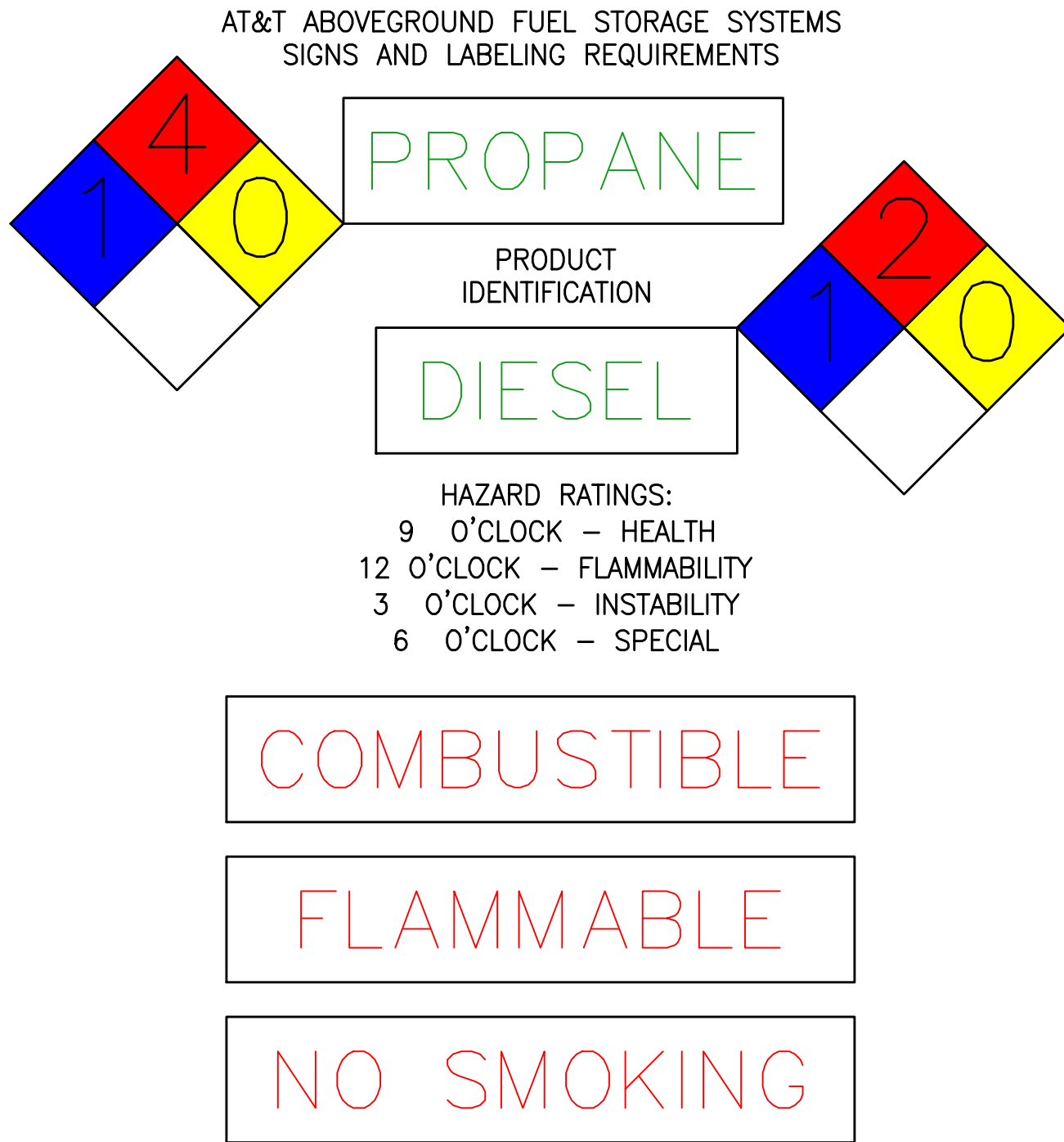
SHEET NUMBER:

GN-6



- NOTES:
1. PLACE SIGN ON ROOM, SHELTER OR CABINET DOOR.

6 DOOR SIGN
N.T.S.



SIGNS MUST BE OF DURABLE MATERIAL WITH RED LETTERING ON WHITE BACKGROUND. LETTERS SHALL NOT BE LESS THAN 3 INCHES (762 mm) IN HEIGHT. SIGNS SHALL NOT BE OBSTRUCTED OR REMOVED AND SHALL BE IN ENGLISH AS A PRIMARY LANGUAGE. COMBUSTIBLE SIGN MAY ALSO BE WHITE LETTER ON RED BACKGROUND

- NOTES:
1. PLACE AT DOOR OR TANK.
 2. SEE SIGN PLACEMENT TABLE IN A-12 FOR ADDITIONAL INFORMATION

5 FUEL STORAGE SIGN
N.T.S.



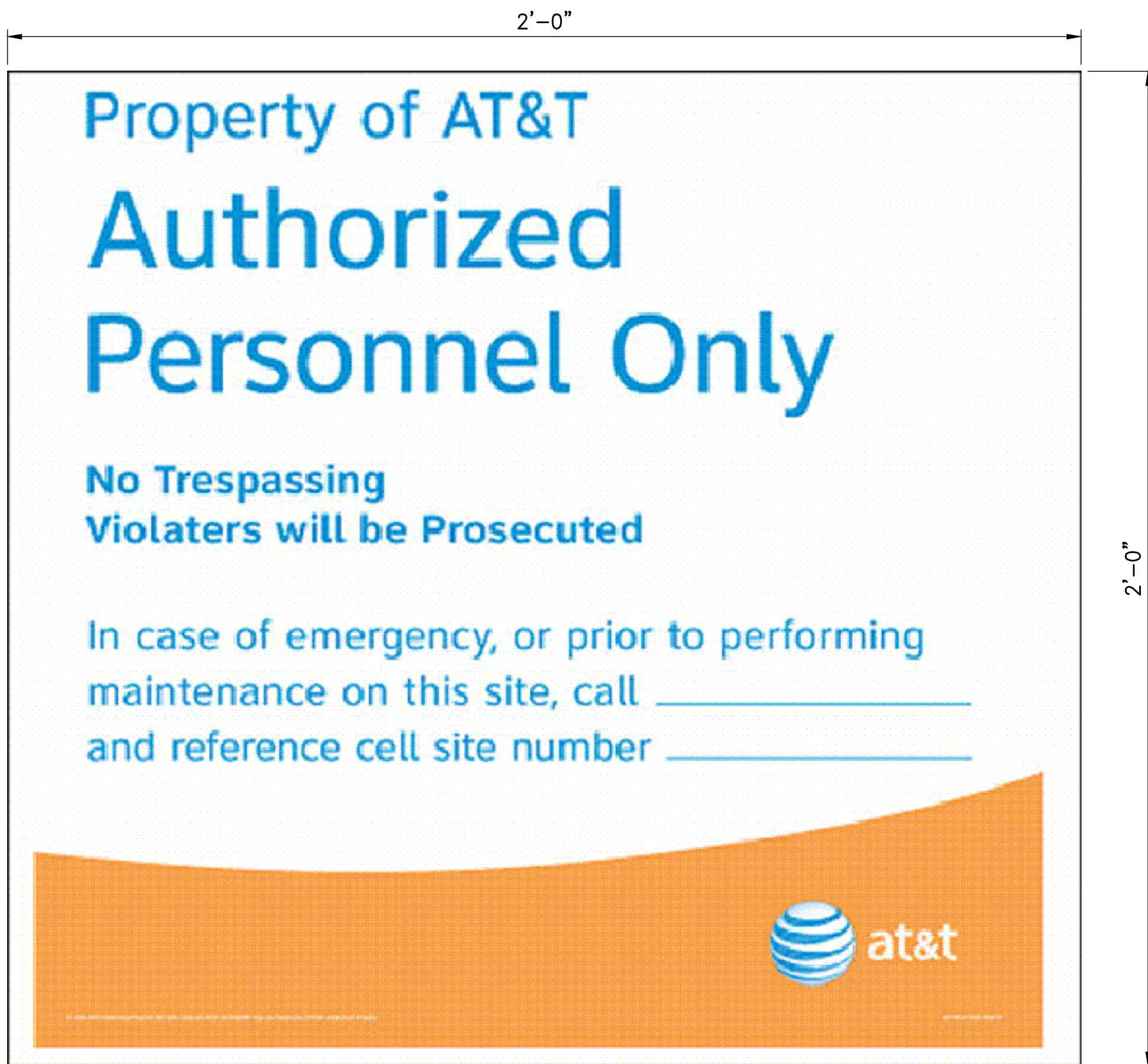
- NOTES:
1. 12" x 8" ALUMINUM.
 2. REQUIREMENT IS SPECIFIED IN SECTION 4 OF CNTF.
 3. POSTED AT BASE OF TOWER AND AT EACH ENTRANCE POINT.
 4. SEE SIGN PLACEMENT TABLE IN A-12 FOR ADDITIONAL INFORMATION

4 FCC TOWER REG. (ASRN)
N.T.S.

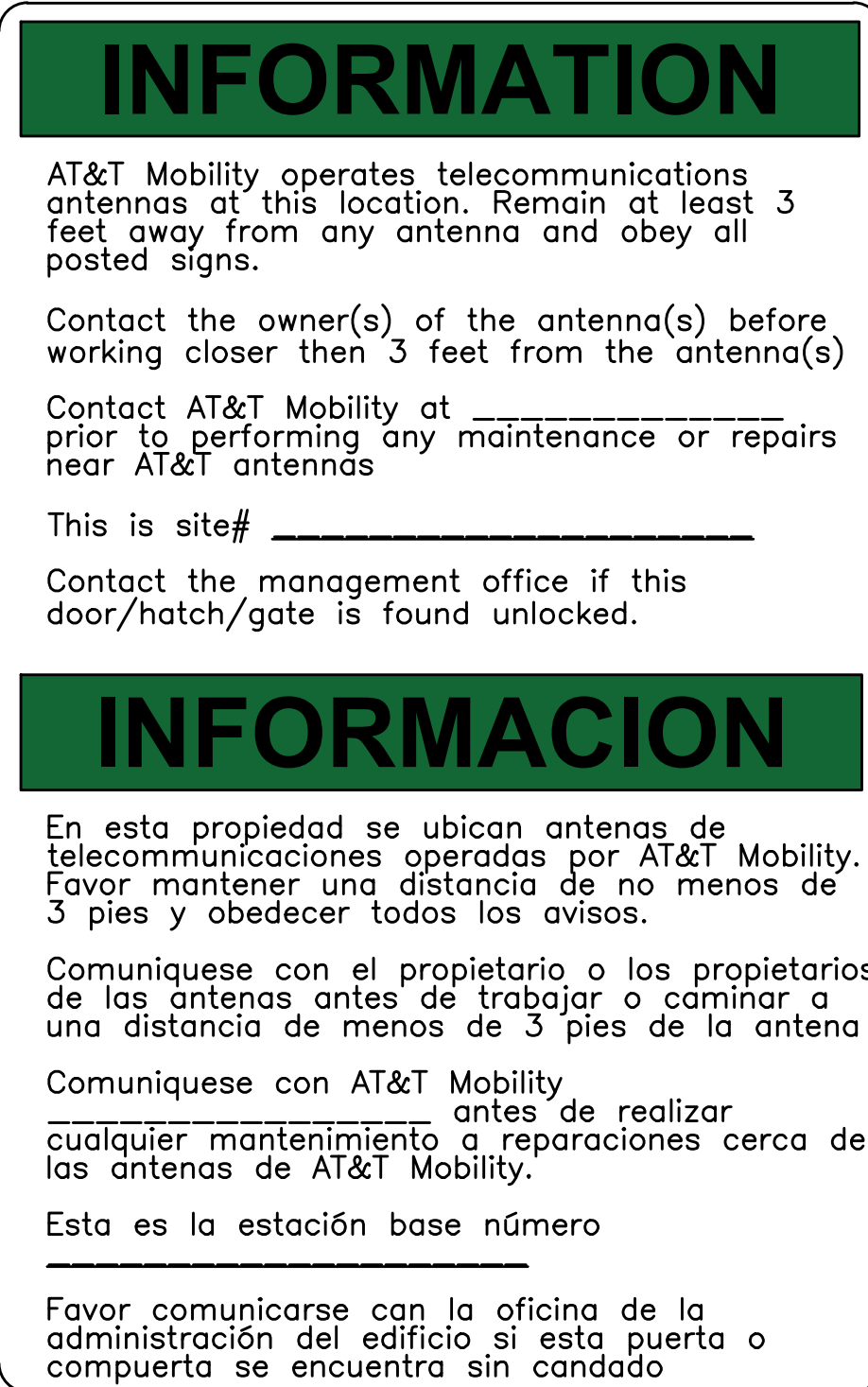


- NOTES:
1. PLACE SIGN ON GATE OR DOOR AND EACH SIDE OF FENCED COMPOUND.
 2. PLACE SIGN ON AT&T COMPOUND ONLY.
 4. SEE SIGN PLACEMENT TABLE IN A-12 FOR ADDITIONAL INFORMATION

3 NO TRESPASSING SIGN
N.T.S.

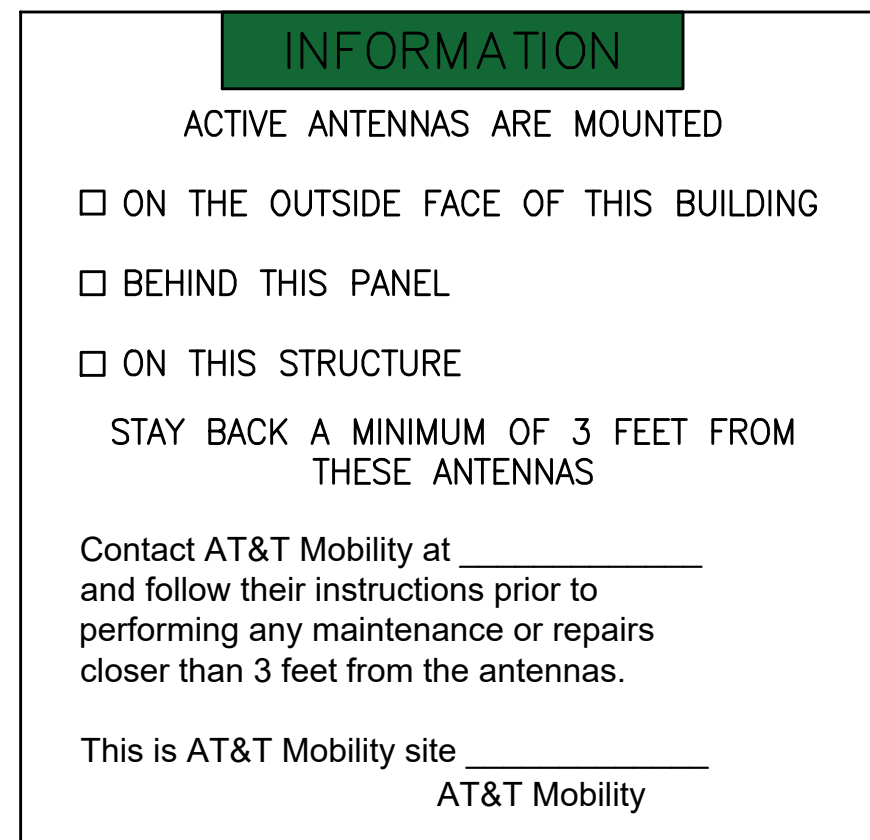


- NOTES:
1. ALUMINUM SIGN.
 2. PLACE AT MAIN ENTRANCE GATES TO COMPOUND.
 3. SEE SIGN PLACEMENT TABLE IN A-12 FOR ADDITIONAL INFORMATION.



- INFORMATION SIGN 1:
1. 8" X 12" ALUMINUM.
 2. PLACE AT ENTRANCE (GATE, DOOR, HATCHWAY, ETC).
 3. POSTED ADJACENT TO CAUTION (YELLOW) SIGN.
 4. BUILDING OWNER MAY HAVE LIMITATIONS ON WHERE CAN BE POSTED.
 5. SEE SIGN PLACEMENT TABLE IN A-12 FOR ADDITIONAL INFORMATION

1 RADIO FREQUENCY INFORMATION SIGN
N.T.S.



- INFORMATION SIGN 2:
1. NON-METALLIC (VINYL OR SIMILAR WEATHERPROOF MATERIAL) LABEL WITH AN ADHESIVE BACKING.
 2. APPROXIMATELY 5 X 7 INCHES.
- POSTING:
1. ACTIVE ANTENNAS BEHIND A RADIO TRANSPARENT PANEL. A NON-METALLIC VERSION WITH AN ADHESIVE BACKING SHOULD BE AFFIXED TO THE FACE OF THE RADIO TRANSPARENT PANEL CONCEALING THE ANTENNAS.
 2. ANTENNAS MOUNTED ON THE OUTSIDE FACE OF A BUILDING. A METALLIC OR NON-METALLIC VERSION SHOULD BE MOUNTED ON THE PARAPETS INSIDE WALL DIRECTLY ABOVE THE ANTENNA.
 3. ROOFTOP ANTENNAS MOUNTED ON SUPPORT STRUCTURES. A METALLIC OR NON-METALLIC VERSION (DEPENDING UPON MOUNTING CONDITIONS) SHOULD BE MOUNTED ON THE SUPPORT STRUCTURE, OR VERY NEAR IT, IN SUCH A MANNER THAT THE SIGN IS CLEARLY ASSOCIATED WITH THE STRUCTURE.
 4. ANTENNAS THAT ARE STAND-ALONE (E.G., LAMP POSTS, STADIUMS) IN AREAS WHERE THERE IS LITTLE POTENTIAL FOR EXCEEDING THE GENERAL POPULATION/UNCONTROLLED MPE EXCEPT, PERHAPS, VERY CLOSE TO THE ANTENNA. IN THIS CASE, THE INFORMATION SIGN 2 WOULD BE MOUNTED CLOSE TO THE ANTENNA IN ORDER TO ALERT MAINTENANCE WORKERS.
 5. SEE SIGN PLACEMENT TABLE FOR ADDITIONAL INFORMATION.

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:

2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:

7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CDS
B	12/03/21	CLIENT REVISIONS
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9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licenser:

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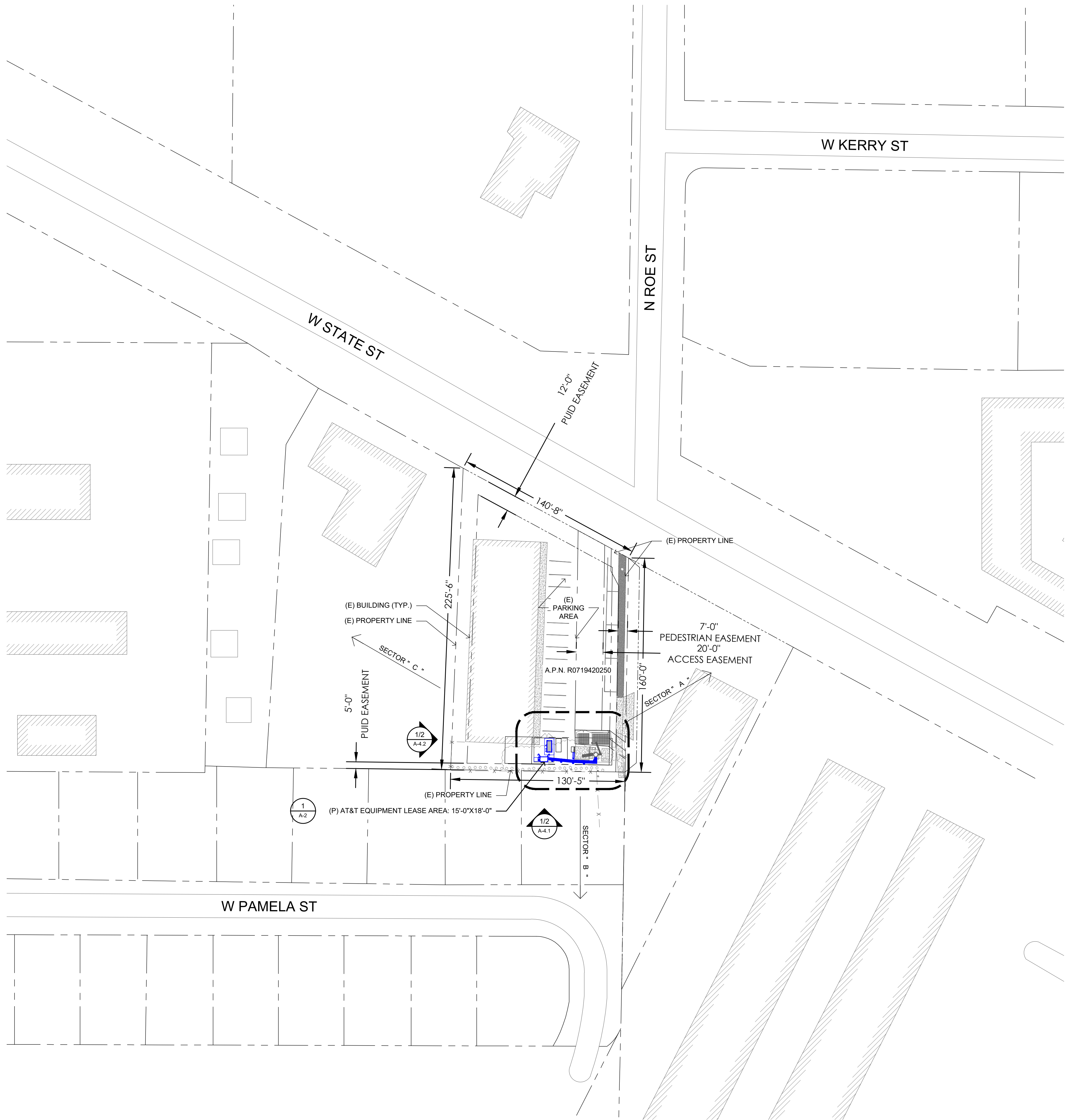
Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
SITE SIGNAGE

SHEET NUMBER:
GN-7

NOTE

THERE IS NO LANDSCAPING ON SITE AT THIS TIME.



1 OVERALL SITE PLAN
SCALE: 1"=40'-0" (FULL SIZE)
1"=80'-0" (11x17)



SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
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Licenser:

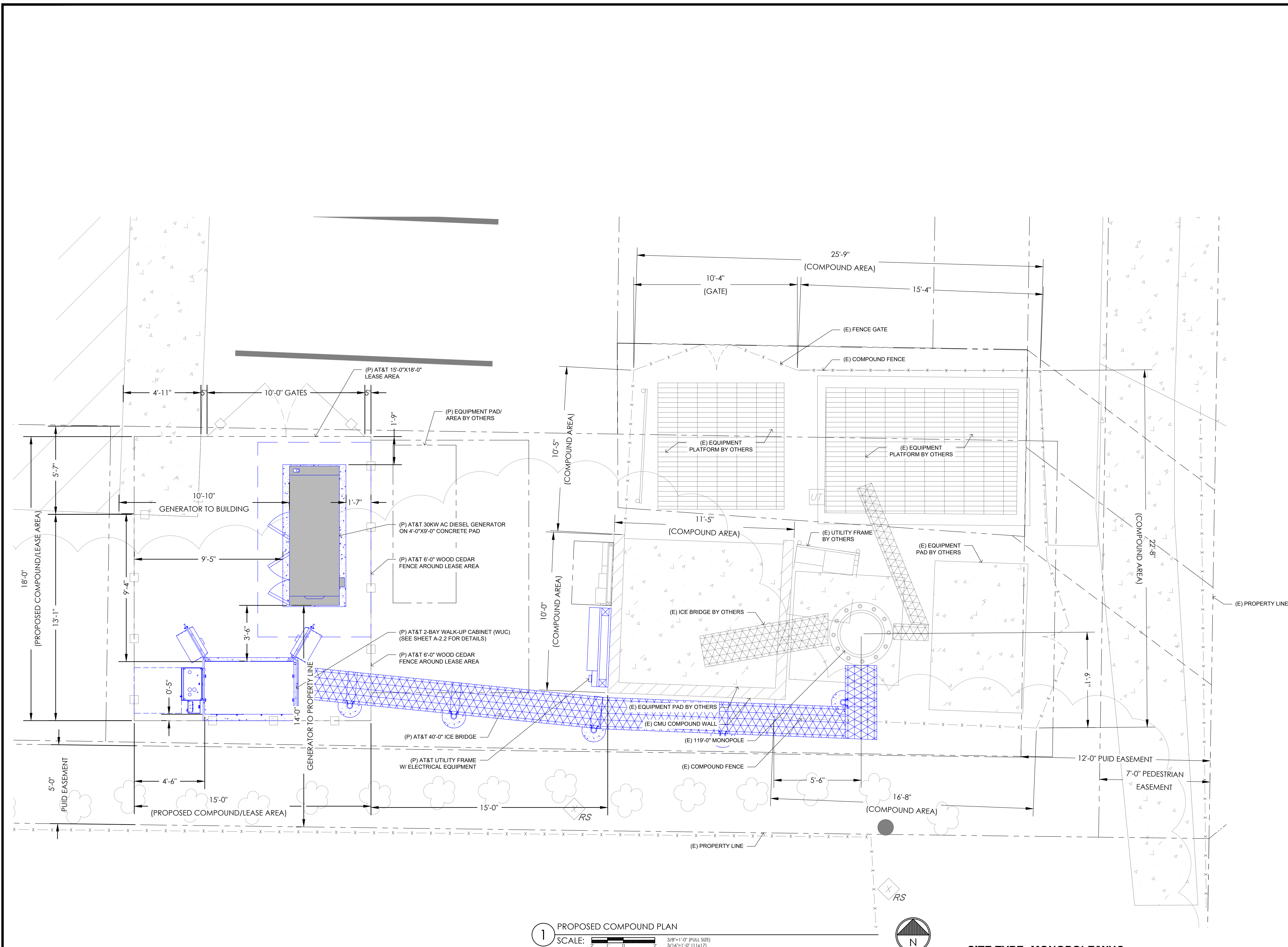
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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DOCUMENT.

Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
OVERALL SITE
PLAN

SHEET NUMBER:
A-1



1 PROPOSED COMPOUND PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:

2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:

7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDL02365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

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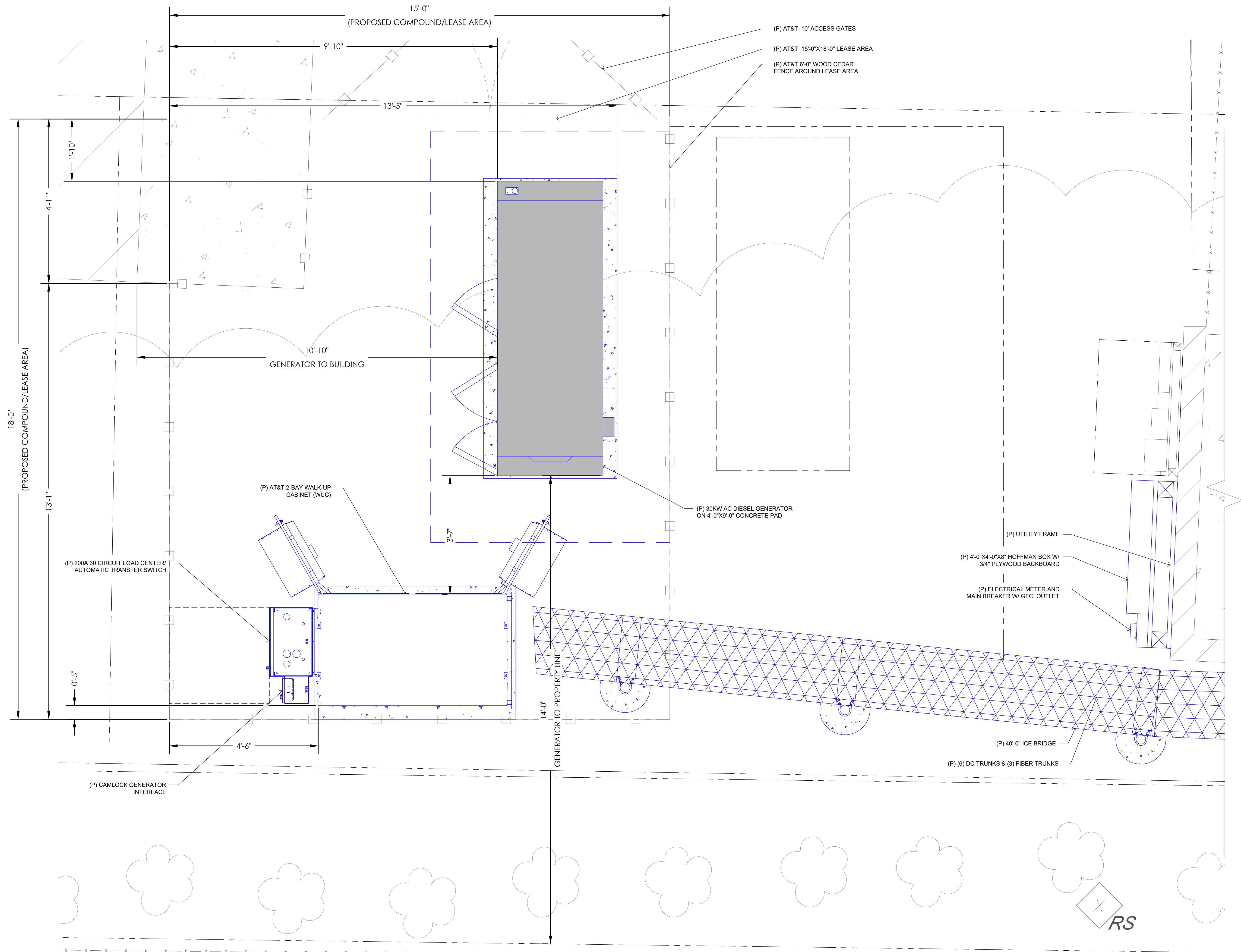
Licenser:

18283
Jim Alexander
STATE OF IDAHO
TIM ALEXANDER
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
PROPOSED
COMPOUND PLAN

SHEET NUMBER:
A-2.1



1 INTERIOR WUC LAYOUT
SCALE: 1"=1'-0" (FULL SIZE)
1/2"=1'-0" (11x17)



SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

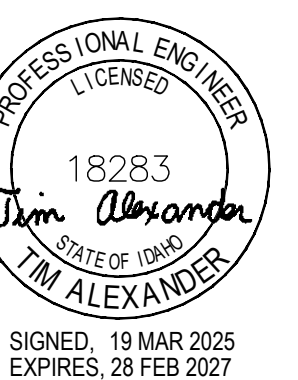
BU NO: 824322

DRAWN BY: NP

CHECKED BY: CM

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Licensior:



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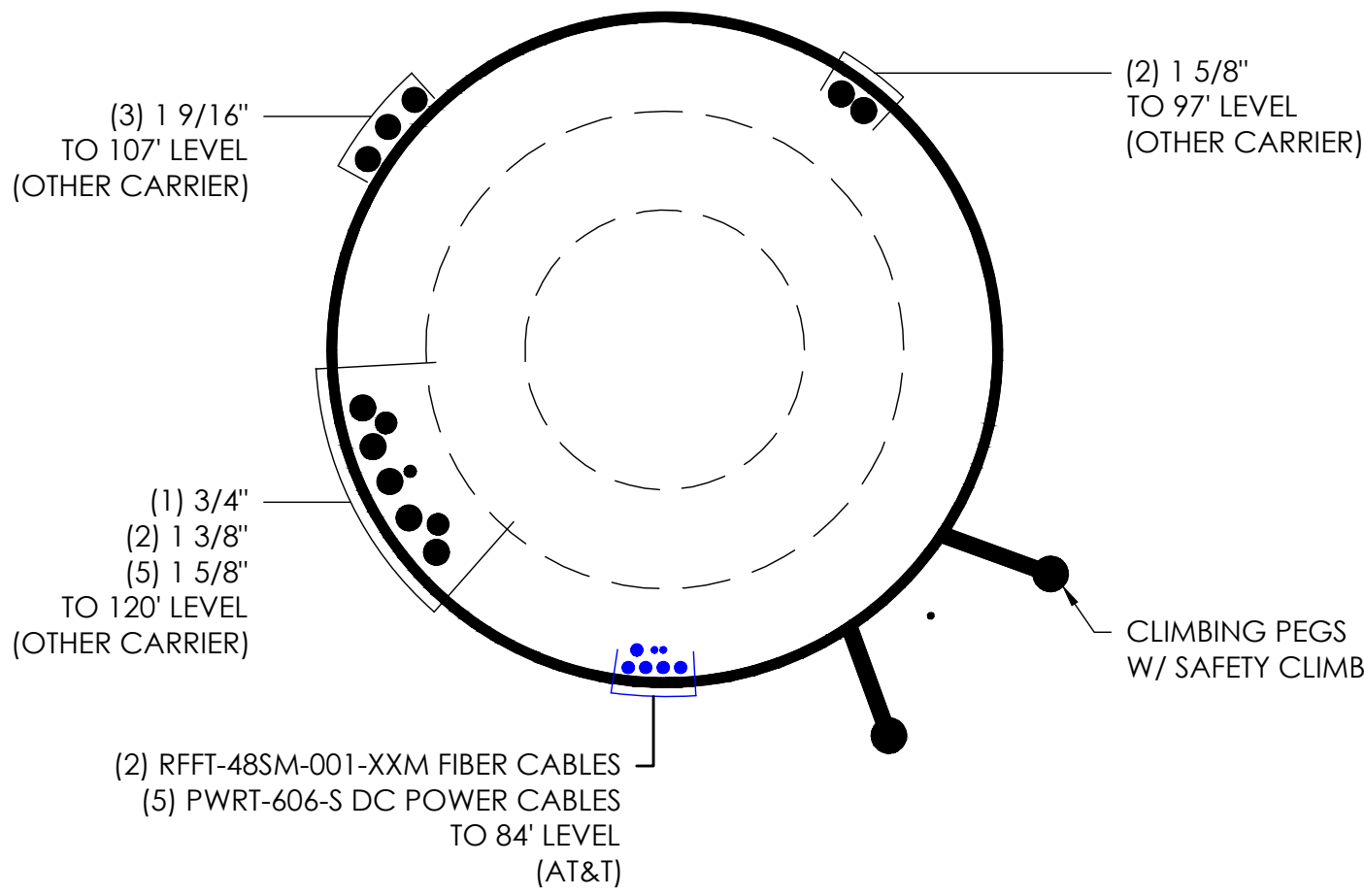
PRELIMINARY CD'S

SHEET TITLE:

INTERIOR WUC LAYOUT

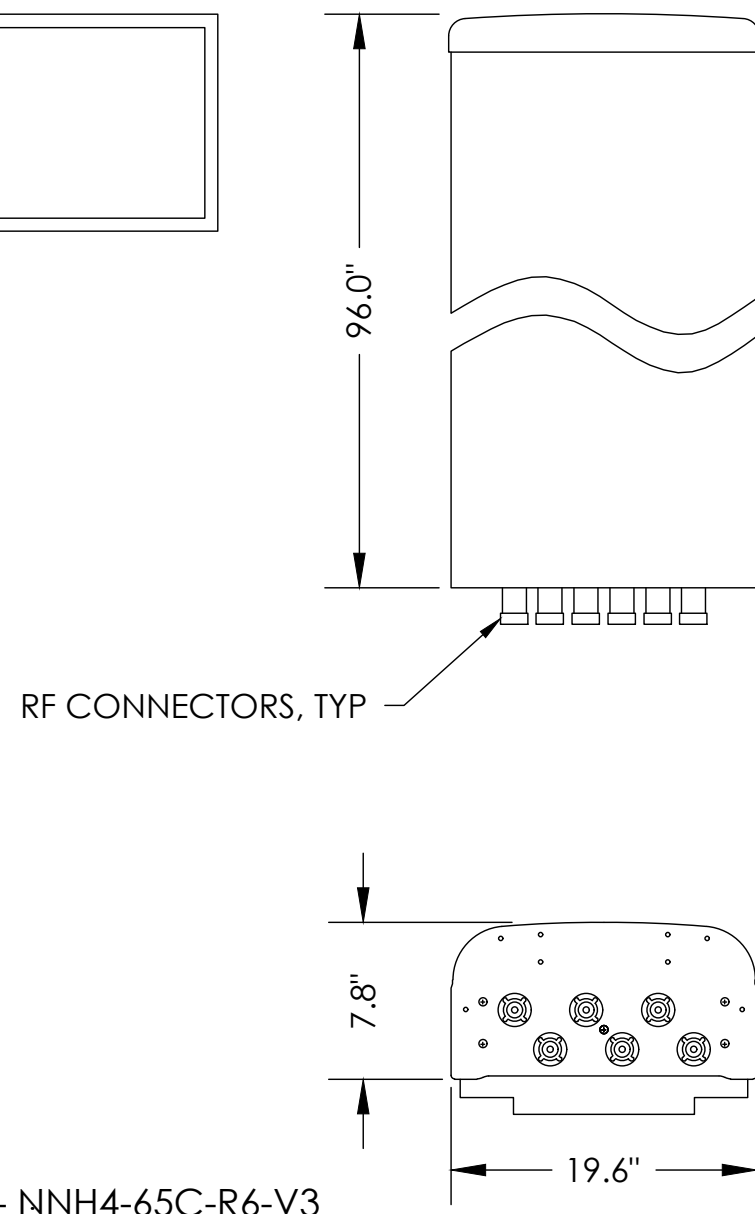
SHEET NUMBER:

A-2.2



5 BASELEVEL
SCALE: NOT TO SCALE

LENGTH: 96.0"
WIDTH: 19.6"
DEPTH: 7.8"
WEIGHT: 102.1 lbs.

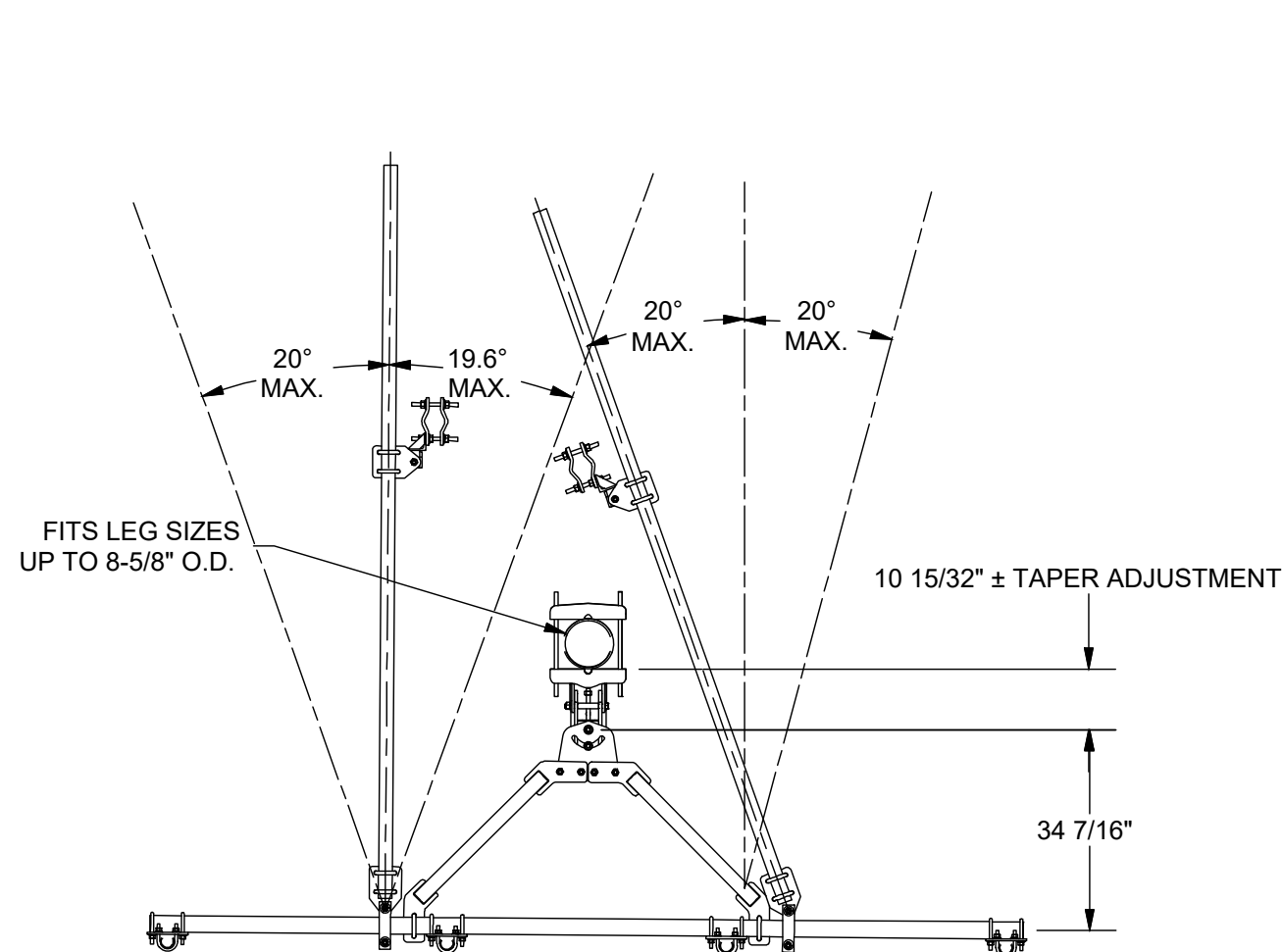


4 COMMSCOPE - NNH4-65C-R6-V3
SCALE: NOT TO SCALE

NEW ANTENNA SCHEDULE							
SECTOR	POSITION	TECH	ANTENNA	RRH	AZIMUTH	TIP HEIGHT	ANTENNA DIMS (HxWxD)
ALPHA	1	5G	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4490 B5/B12A*	SEE FINAL RFDS	84'-0"	96X19.6X7.8
ALPHA	2	5G	AIR6419 B77D (STACKED) AIR6419 B77G (STACKED)	-	-	-	-
ALPHA	3	LTE	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4890 B25/B46 (1) 4478 B14	SEE FINAL RFDS	84'-0"	96X19.6X7.8
ALPHA	4						
BETA	1	5G	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4490 B5/B12A*	SEE FINAL RFDS	84'-0"	96X19.6X7.8
BETA	2	5G	AIR6419 B77D (STACKED) AIR6419 B77G (STACKED)	-	-	-	-
BETA	3	LTE	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4890 B25/B46 (1) 4478 B14	SEE FINAL RFDS	-	-
BETA	4					84'-0"	96X19.6X7.8
GAMMA	1	5G	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4490 B5/B12A*	SEE FINAL RFDS	84'-0"	96X19.6X7.8
GAMMA	2	5G	AIR6419 B77D (STACKED) AIR6419 B77G (STACKED)	-	-	-	-
GAMMA	3	LTE	COMMSCOPE - NNH4-65C-R6-V3*	(1) 4890 B25/B46 (1) 4478 B14	SEE FINAL RFDS	-	-
GAMMA	4					84'-0"	96X19.6X7.8

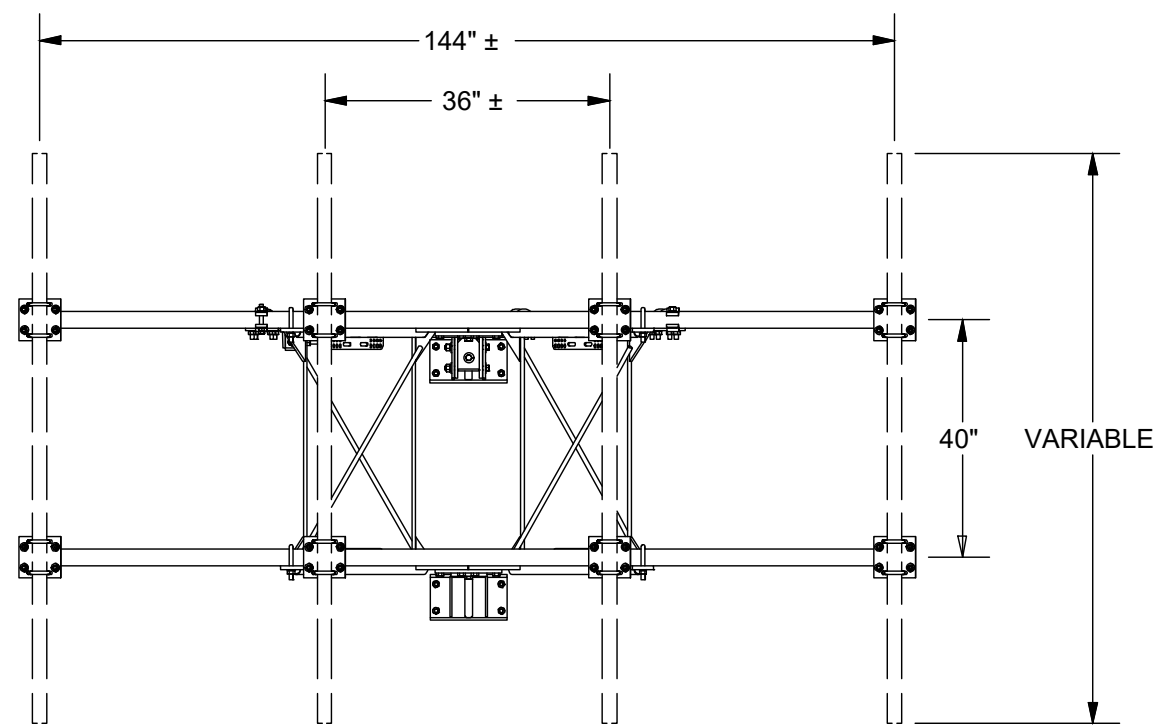
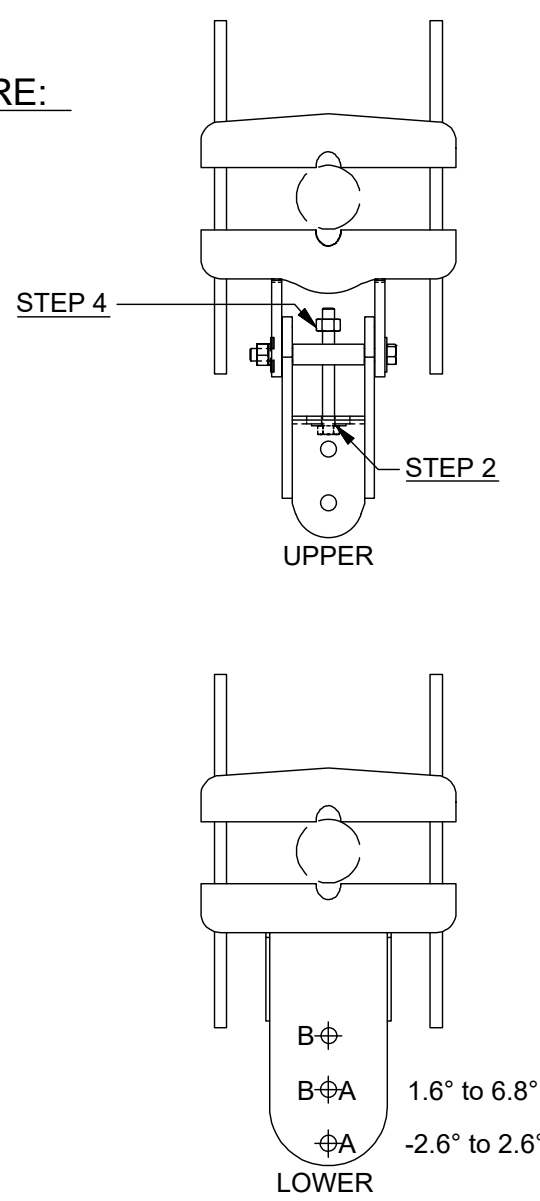
NOTE: CONFIRM THAT GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS.
*OR SIMILAR

2 RF SCHEDULE
SCALE: NOT TO SCALE

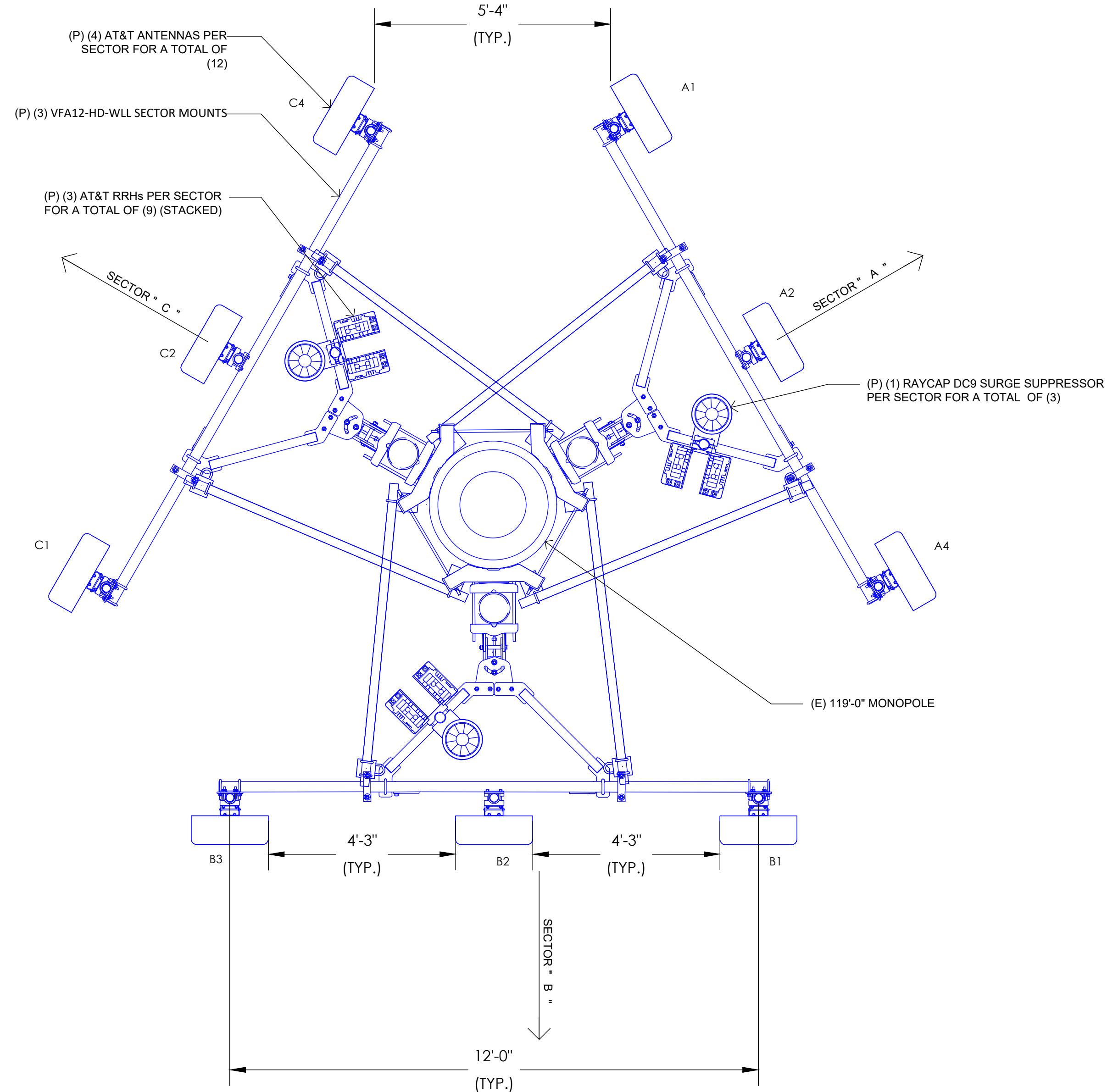


ANGLE CALIBRATING PROCEDURE:

- MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
□ HOLE A = -2.6° TO 2.6°
□ HOLE B = 1.6° TO 6.8°
- USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
- TORQUE LOCKING BOLTS TO 100 ft.-lbs.
- ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.



3 SITEPRO1 VFA12-HD-WLL-30120 HEAVY WLL ANTENNA FRAME DETAIL - ANT# 15997
SCALE: NOT TO SCALE



1 ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
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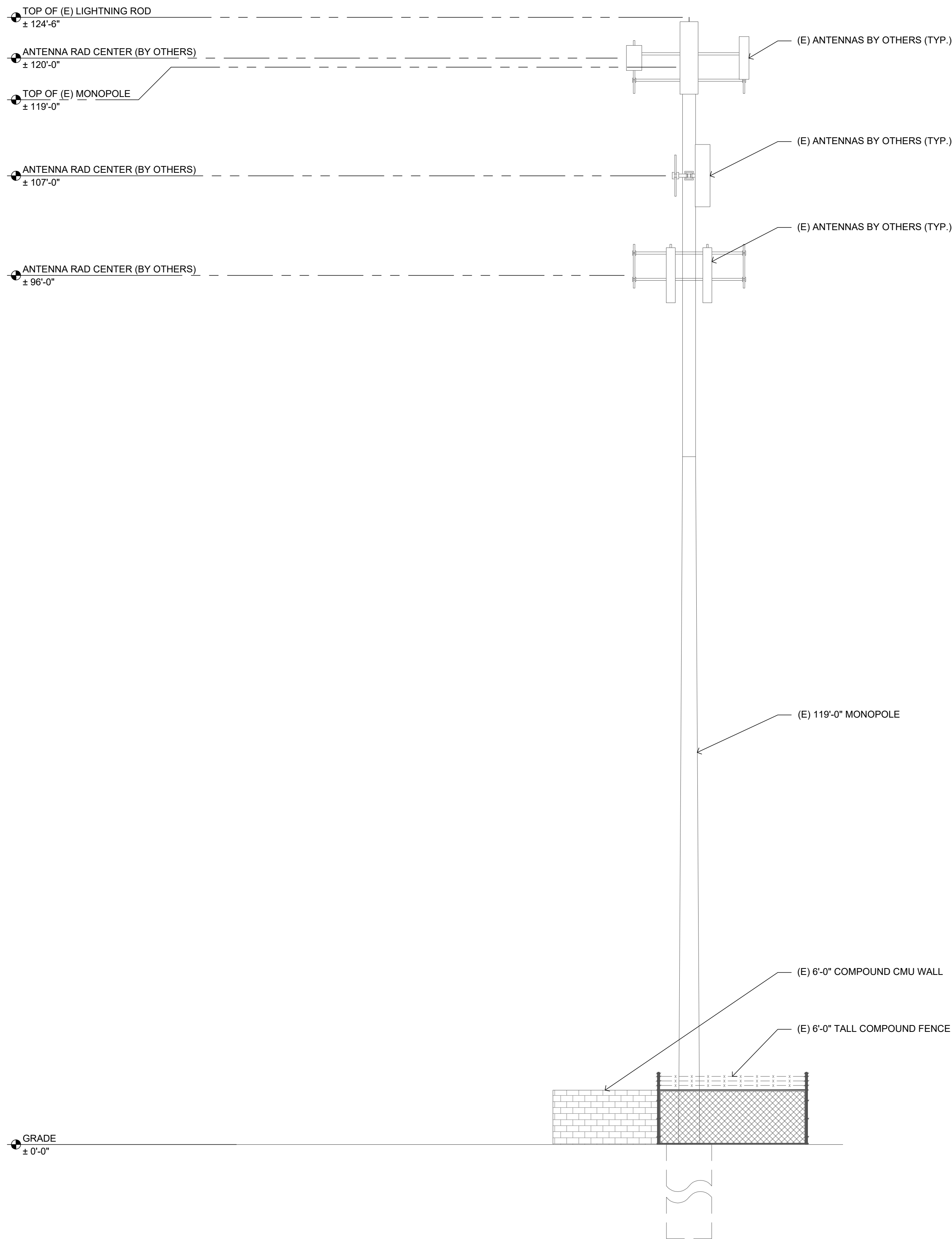
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Licensor:
PROFESSIONAL ENGINEER
LICENSED
18283
Tim Alexander
STATE OF IDAHO
TIM ALEXANDER
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

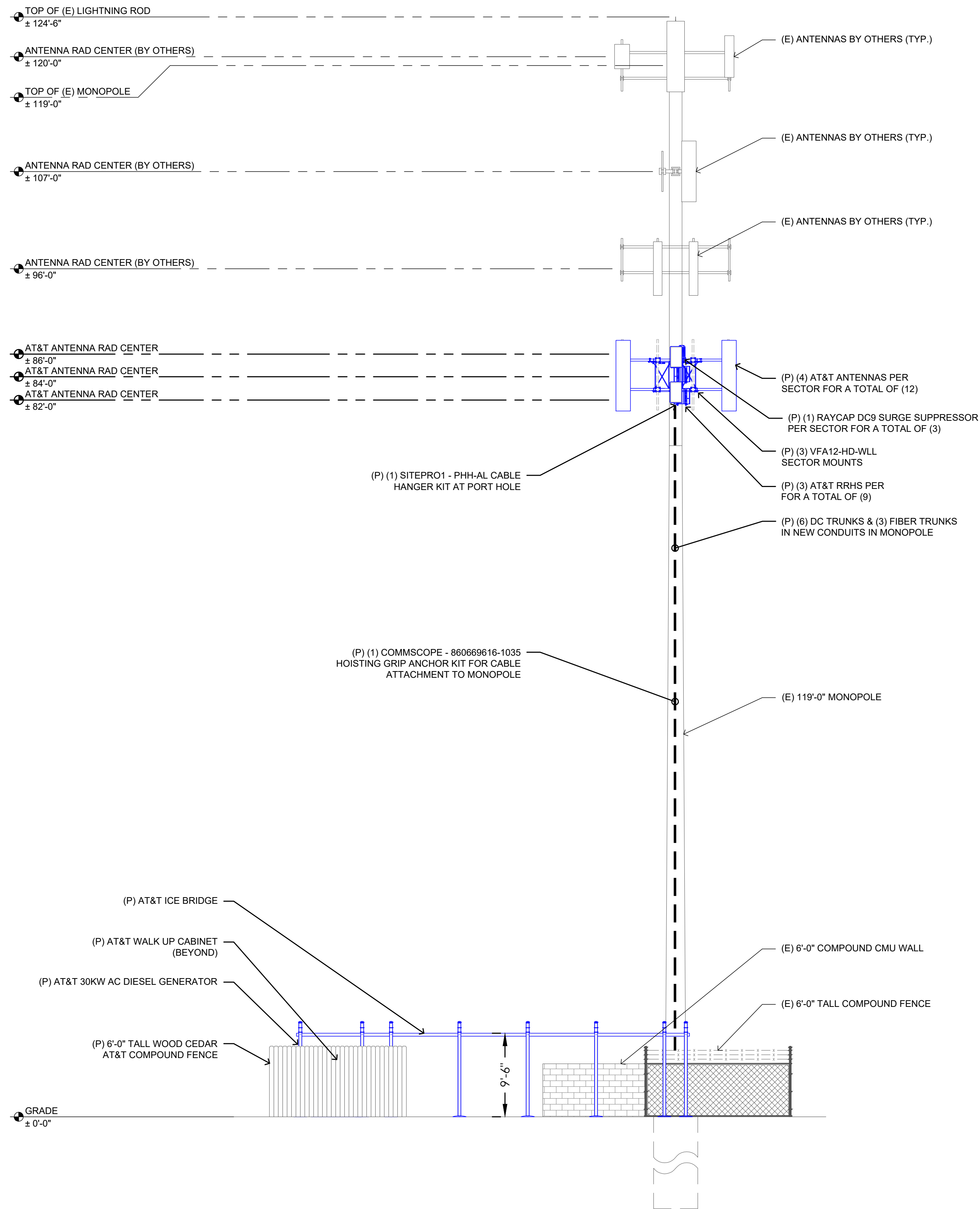
Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
ANTENNA PLAN
& DETAILS

SHEET NUMBER:
A-3



2 EXISTING SOUTH ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



1 PROPOSED SOUTH ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)

SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCOYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
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7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/04/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

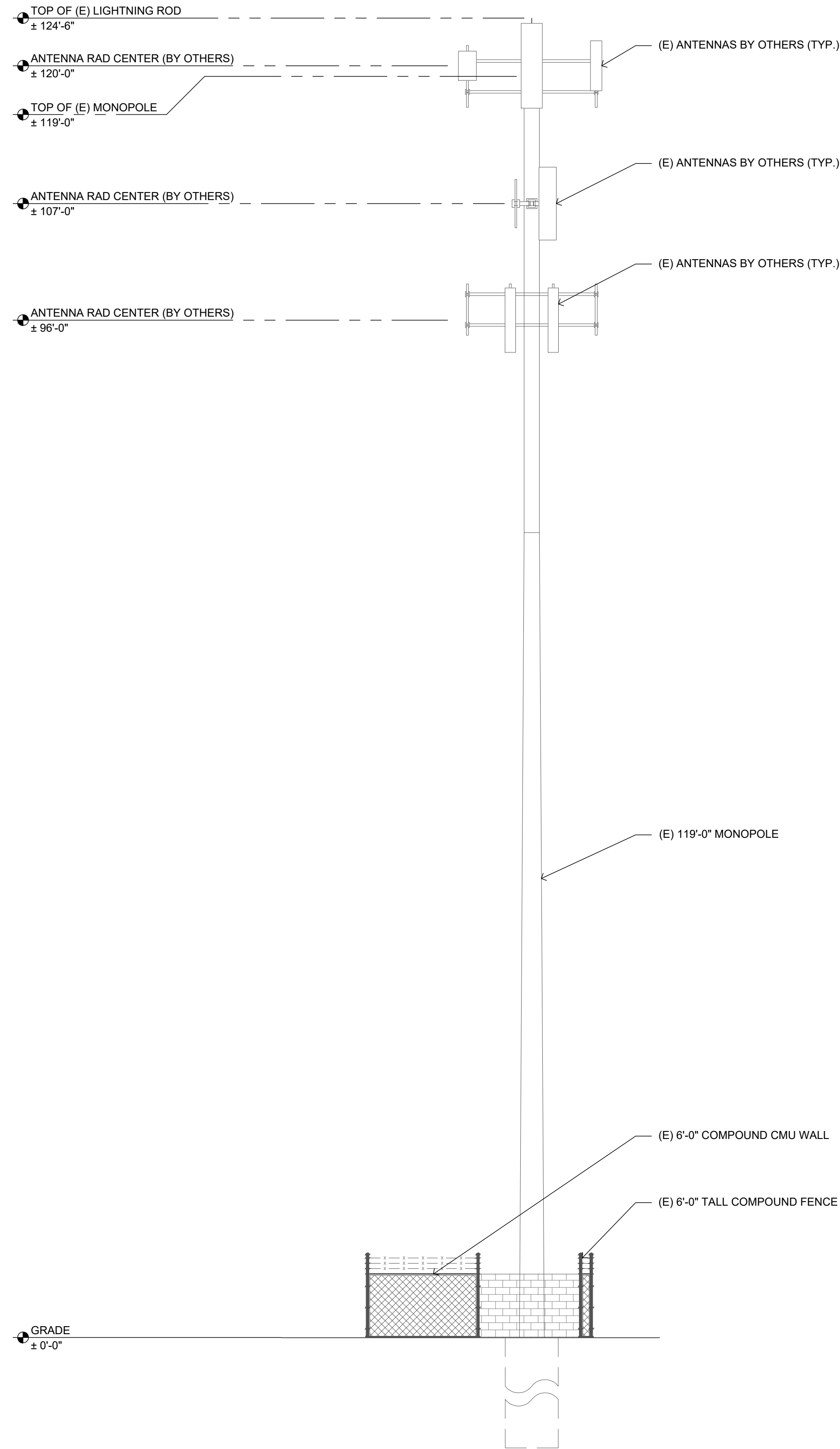
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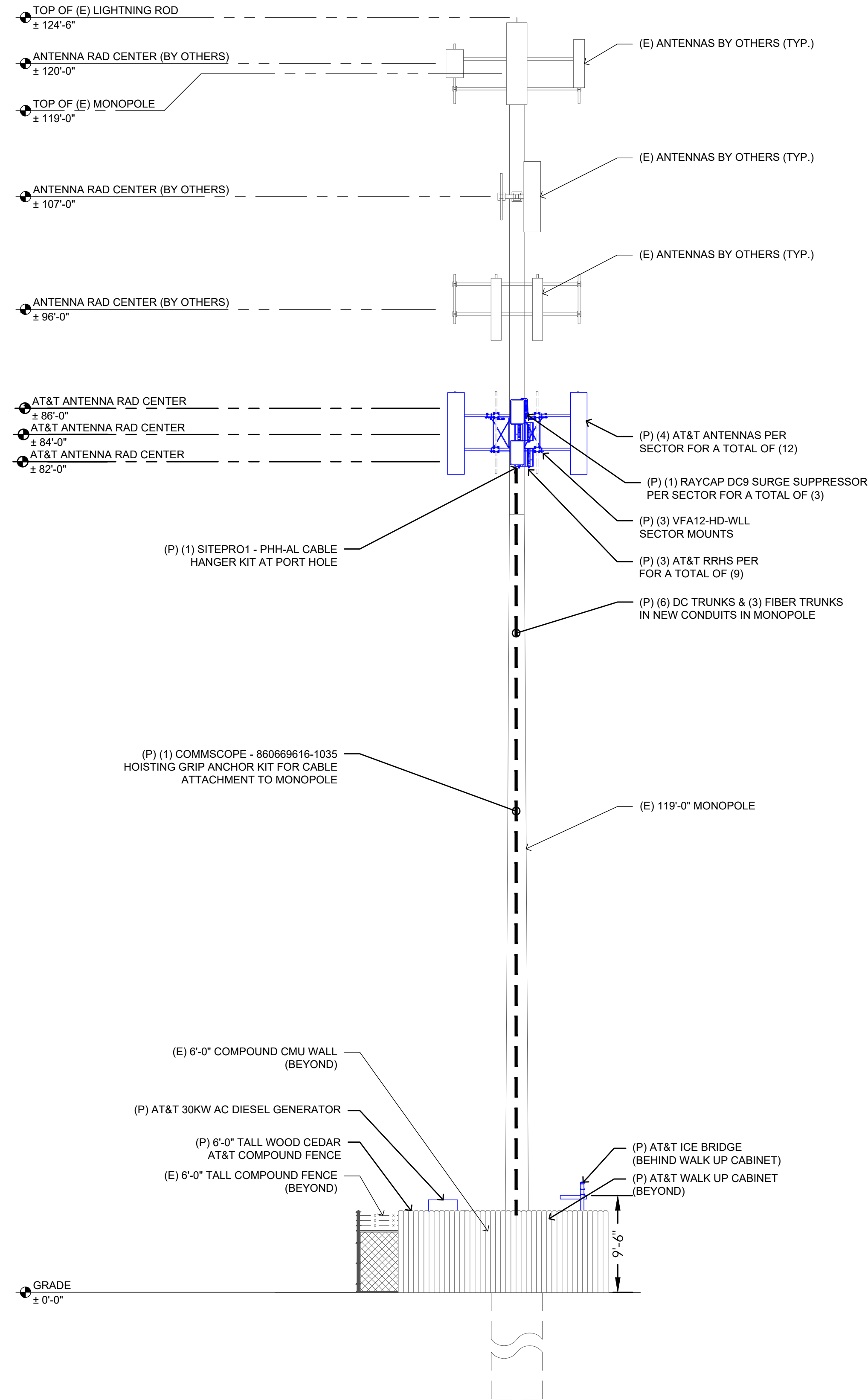
Issued For:
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SHEET TITLE:
PROPOSED
MONOPOLE NORTH -
ELEVATION

SHEET NUMBER:
A-4.1



2 EXISTING WEST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



1 PROPOSED WEST ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)

SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

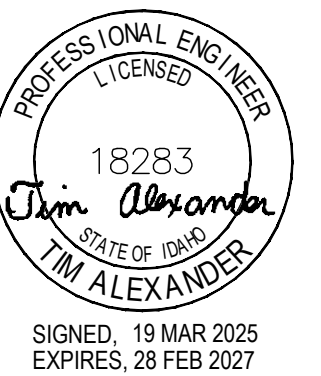
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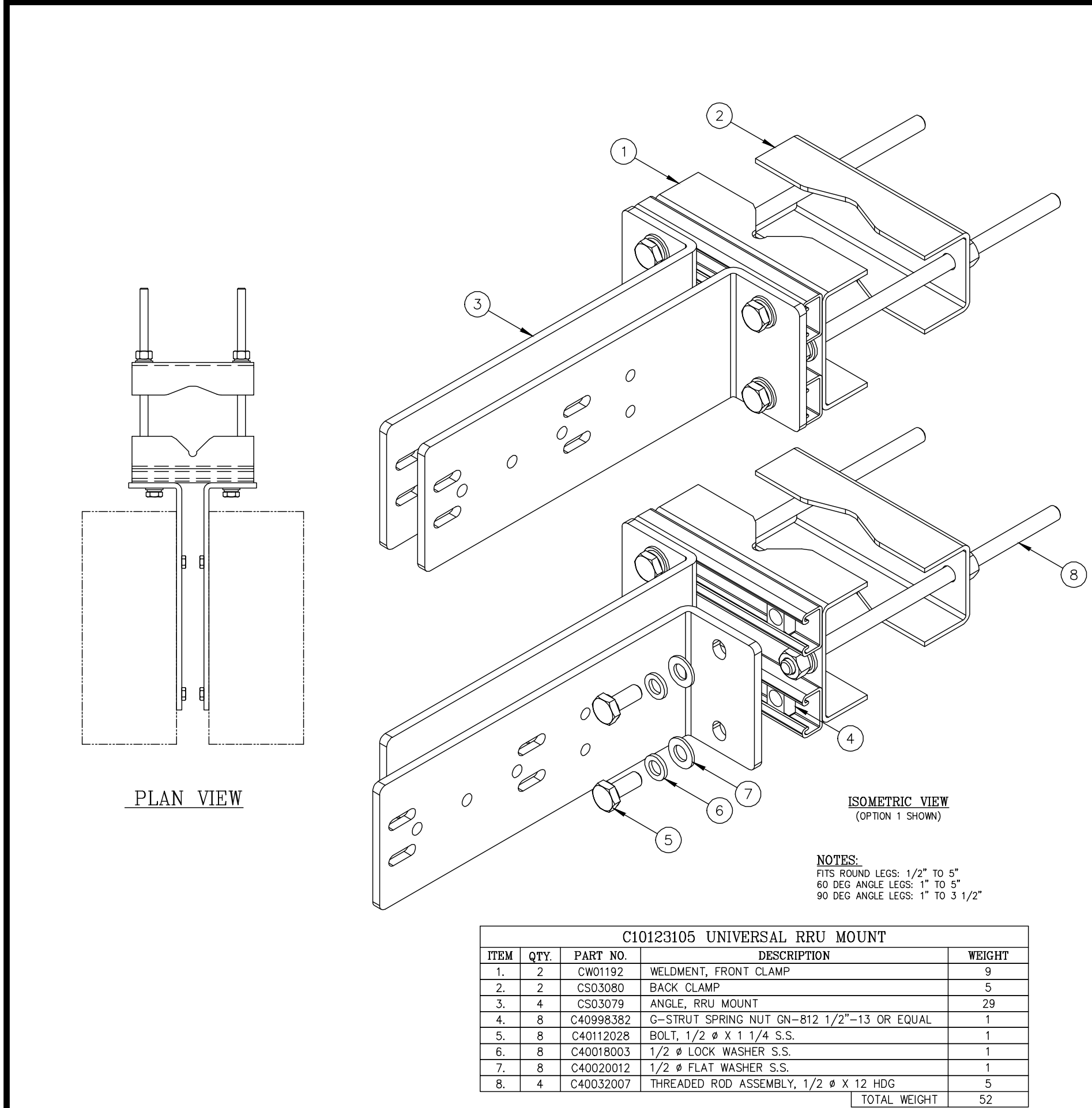
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SHEET TITLE:

PROPOSED
MONOPOLE WEST
ELEVATION

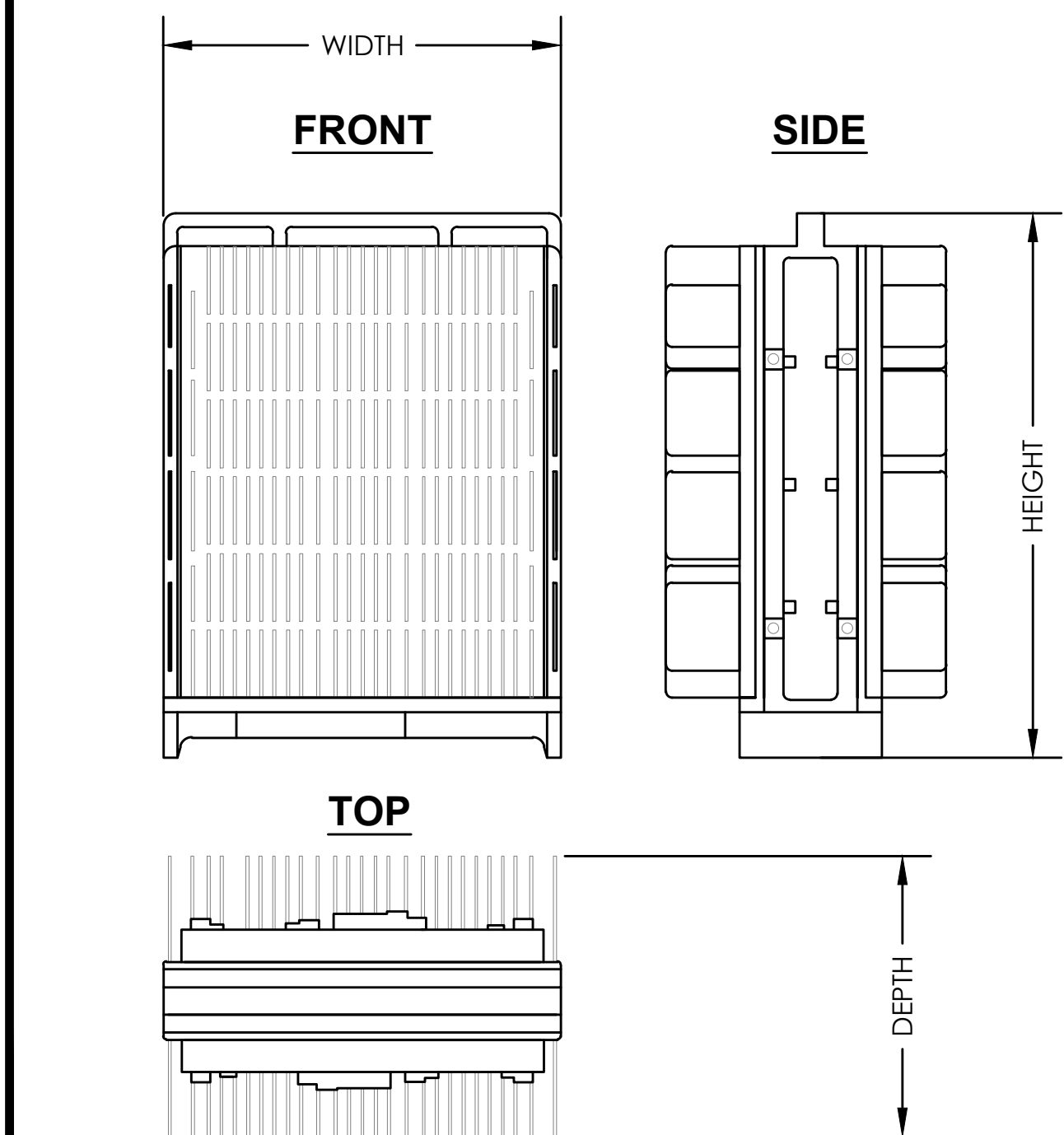
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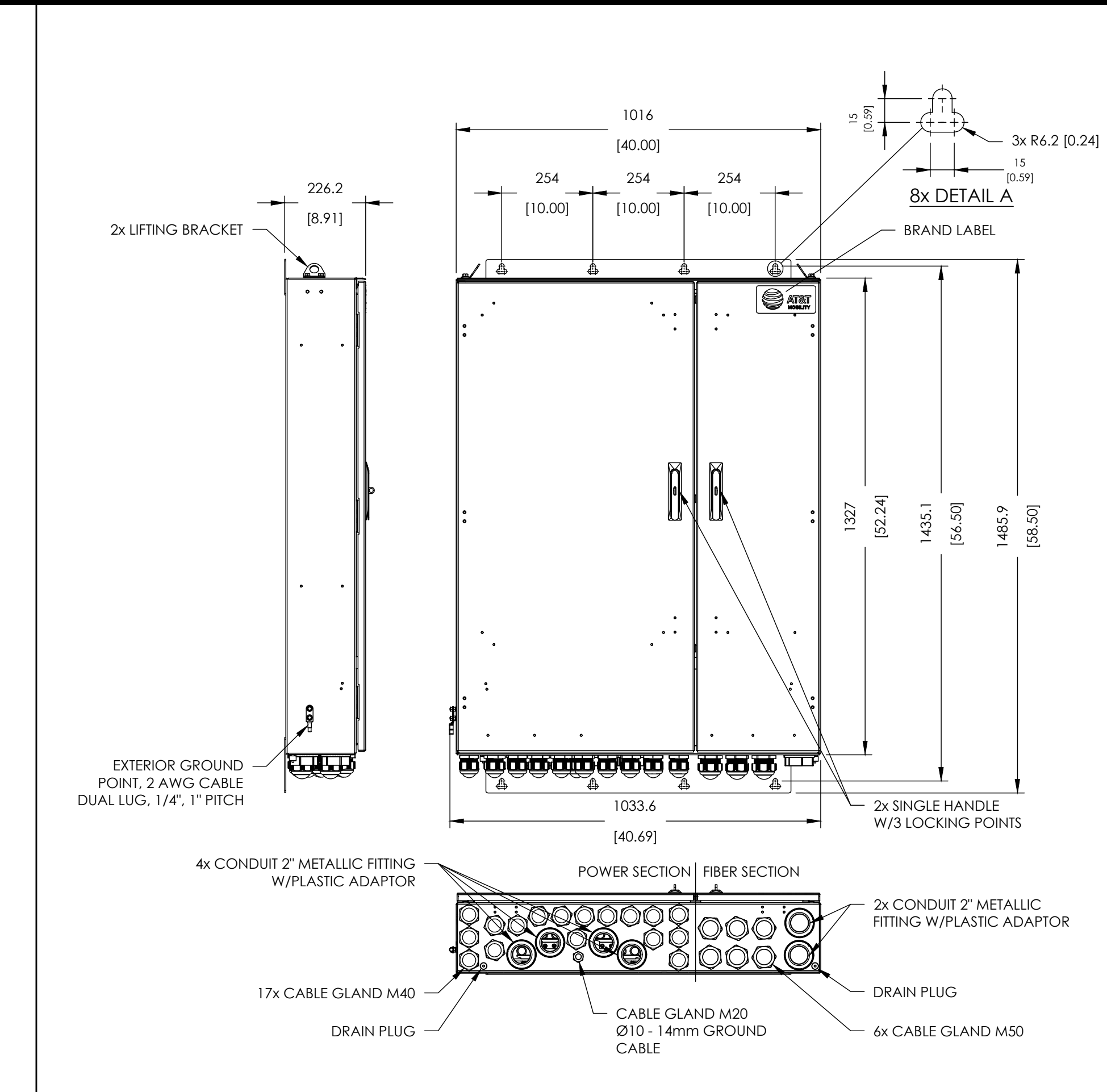


5 DUAL MOUNTING BRACKET
NOT TO SCALE

RRH MODEL	DIMENSIONS (HXWXD)	WEIGHT(LBS)
ERICSSON 4490 B5/B12	17.5"X15.2"X6.8"	68.4
ERICSSON 4890 B25/B66	17.5"X15.1"X6.9"	69.5
ERICSSON 4415 B30	16.5"X13.5"X5.9"	46.3
ERICSSON 4478 B14	15.0"X13.2"X7.3"	59.4

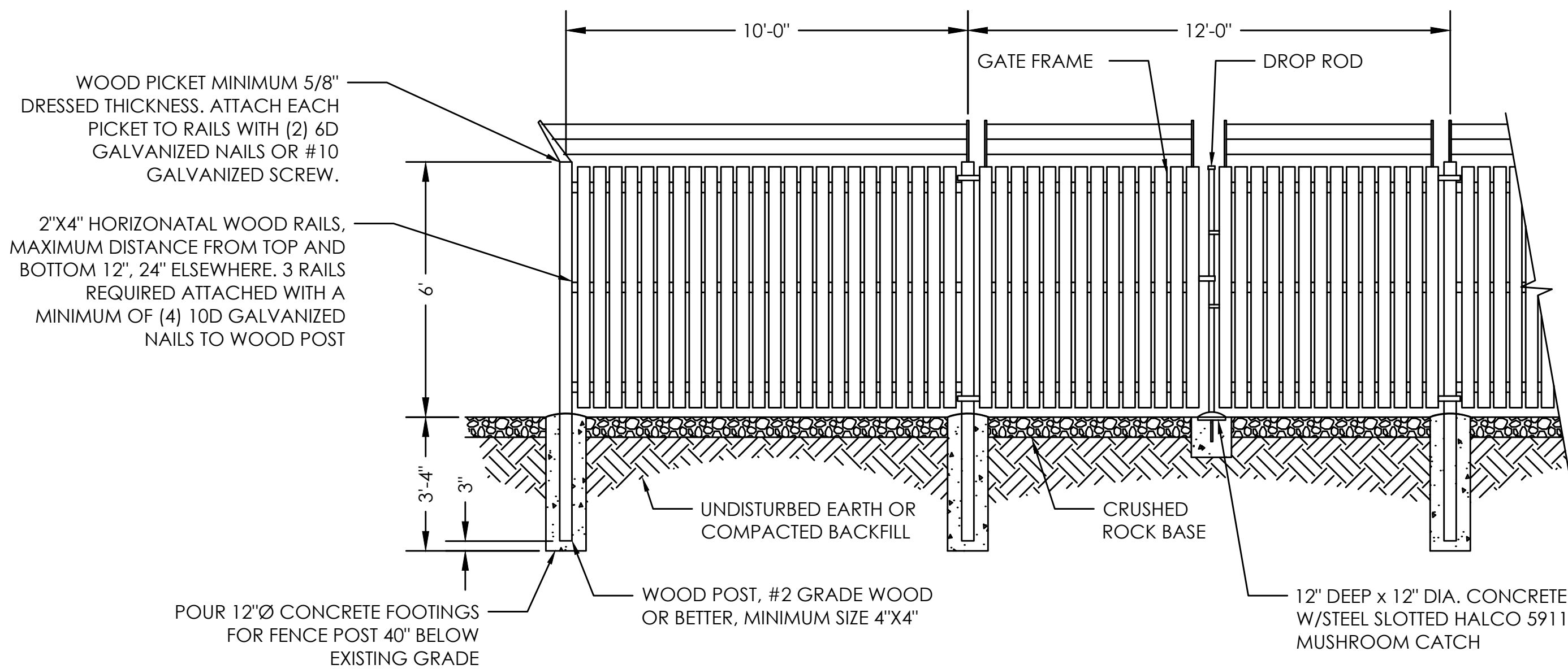


2 RRH DETAILS
NOT TO SCALE

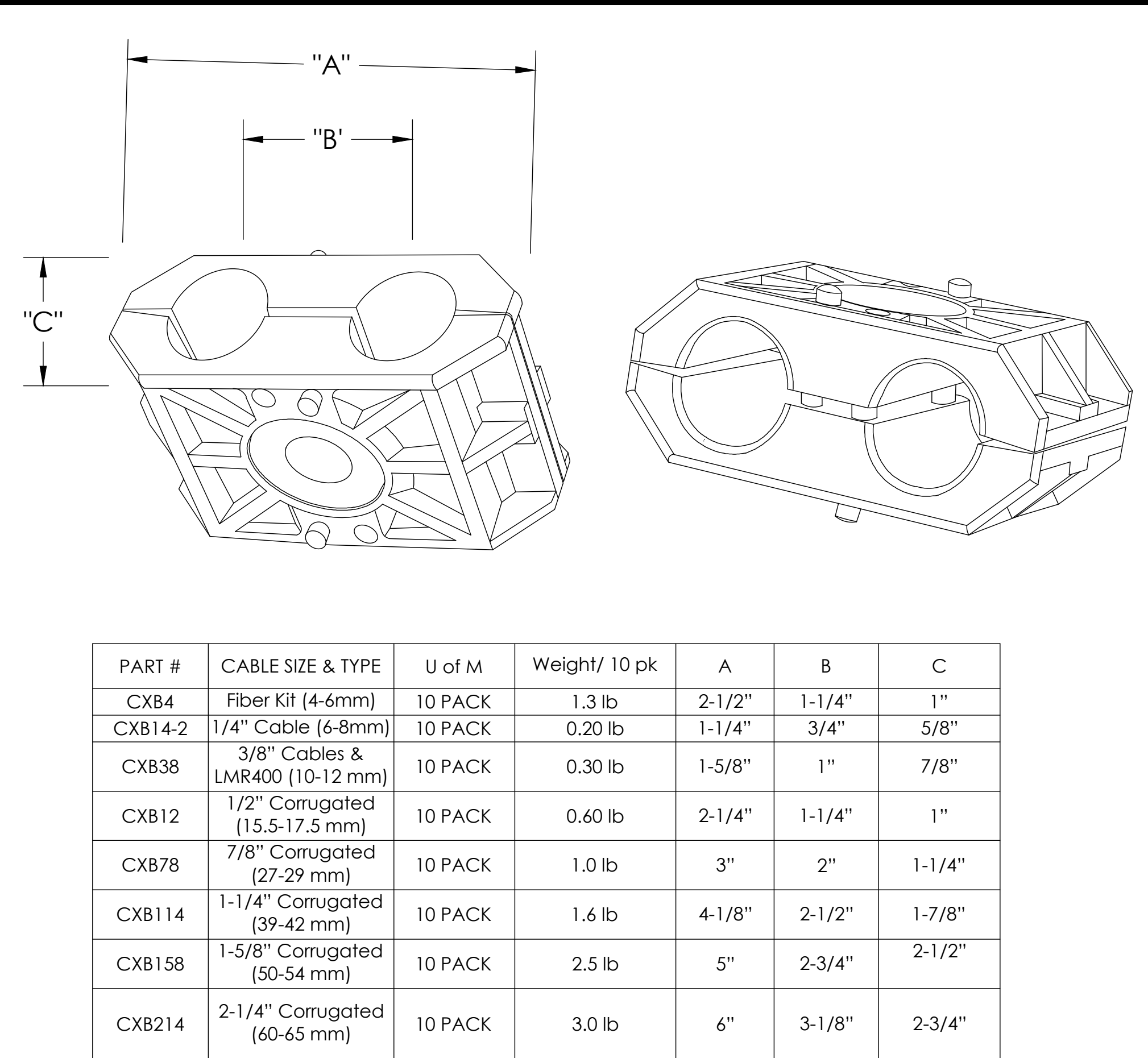


4 DC50 SURGE SUPPRESSOR DETAIL
NOT TO SCALE

- NOTES:
- ALL ITEMS TO CONFORM TO ASTM F1083 FOR HOT DIPPED GALV. FENCING, ASTM F800 FOR GATES, ASTM A392-89 FOR FENCE FABRIC CLASS 2 GALV. AND ASTM A121-86 CLASS 3 FOR BARBED WIRE.
 - ALL PIPE TO BE SCHEDULE 40 UNLESS NOTED OTHERWISE
 - ALL ITEM TO BE GALVANIZED PER ASTM F1083
 - HOG RINGS AND WIRE FASTENERS TO BE SPACED NO MORE THAN 20" OC HORIZONTALLY AT 12" OC VERTICALLY
 - BOTTOM TENSION WIRE TO BE NO MORE THAN 4" ABOVE GRADE
 - PROVIDE STRETCHER BAR AND TENSION BANDS AT ALL GATES, GATE POSTS AND CORNER POSTS
 - PROVIDE 1.75" INSIDE DIAMETER, 17 GAGE GALVANIZED TUBE FOR TOP RAIL SPLICE WHERE REQUIRED
 - PROVIDE TURNBUCKLE OR TIGHTENER AT ALL TRUSS RODS AND TENSION WIRES
 - A FROST FREE GATE LATCH WITH CHAIN AND PADLOCK MAY BE USED INSTEAD OF A DROP ROD UPON APPROVAL FROM THE C.M.



1 WOOD CEDAR FENCE DETAIL
NOT TO SCALE



3 JUMPER ATTACHMENT/CABLE BLOCK DETAIL
NOT TO SCALE

SIZES:

- CORNER POSTS: 2.875" OD
GATE POSTS: 2.875" OD
LINE POSTS: 1.9" OD, 2.875" W/ SLATS
GATE FRAME: 1.66" OD
DROP ROD: 1.375" OD
BRACE RAIL: 1.66" OD
TOP RAIL: 1.66" OD
TRUSS ROD: 3/8" DIA
TENSION ROD: 7 GAUGE
WIRE FASTENERS: 11 GAUGE
HOG RINGS: 9 GAUGE
CHAIN LINK FABRIC: 9 GAUGE, 2" MESH
PRIVACY SLATS: 6"x2" BROWN
BARBED SUPPORT: 1/4" BAR OR
BARBED WIRE: 12 GAUGE FOLD 2.875" OD
12-1/2" GAUGE W/ 4 POINT
14 GAUGE BARBS AT 5" OC

WOODEN FENCE

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BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDLO2365

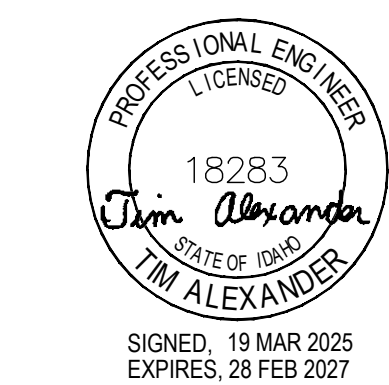
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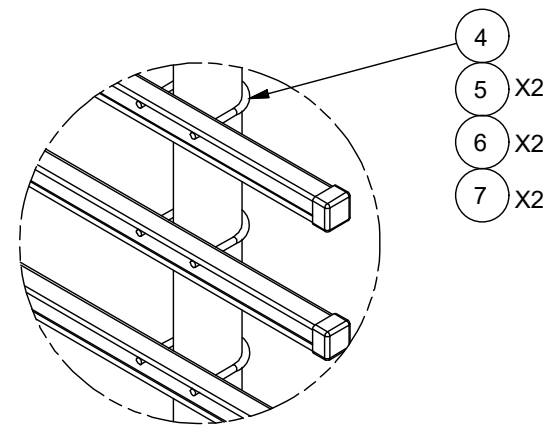
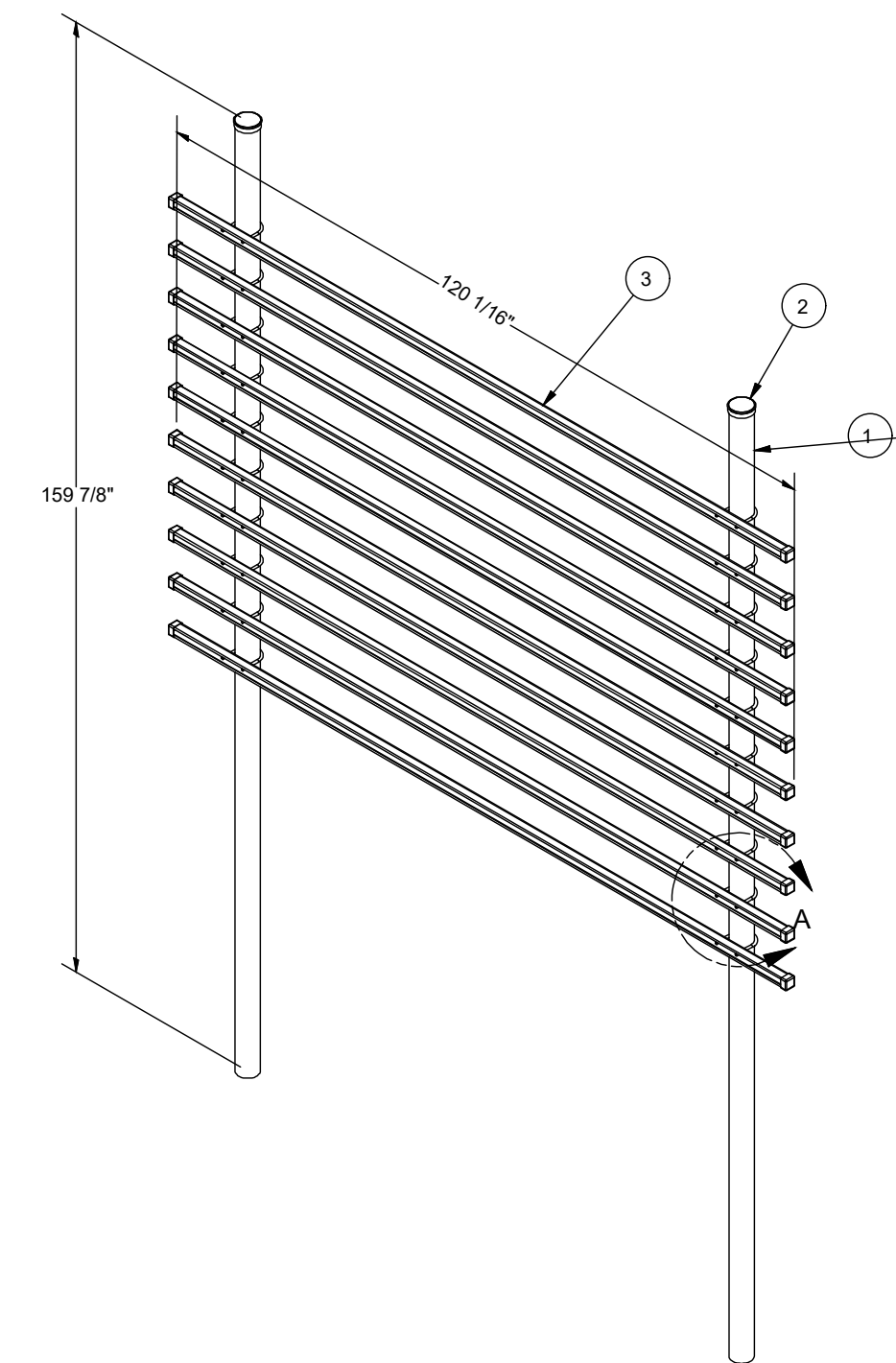
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DETAILS

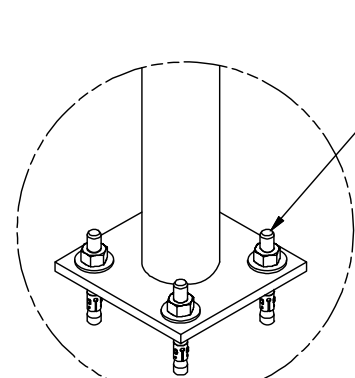
SHEET NUMBER:

A-5

PARTS LIST					
ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
1	2	P3160	3-1/2" X 160" SCH 40 GALVANIZED PIPE	101.25	202.50
2	2	PC312	3-1/2" FENCE POST CAP	0.59	1.17
3	10	UN110	UNISTRUT	20.38	203.79
4	20	X-UB3312	3/8" X 3-1/2" X 4-3/4" X 2" U-BOLT (HDG.)	0.73	14.63
5	40	G38FW	3/8" HDG USS FLATWASHER	0.01	0.47
6	40	G38LW	3/8" HDG LOCKWASHER	0.01	0.27
7	40	G38NUT	3/8" HDG HEAVY 2H HEX NUT	0.03	1.35
8	20	UNICAP	UNISTRUT END CAP	0.03	0.64
TOTAL WT. #				417.77	



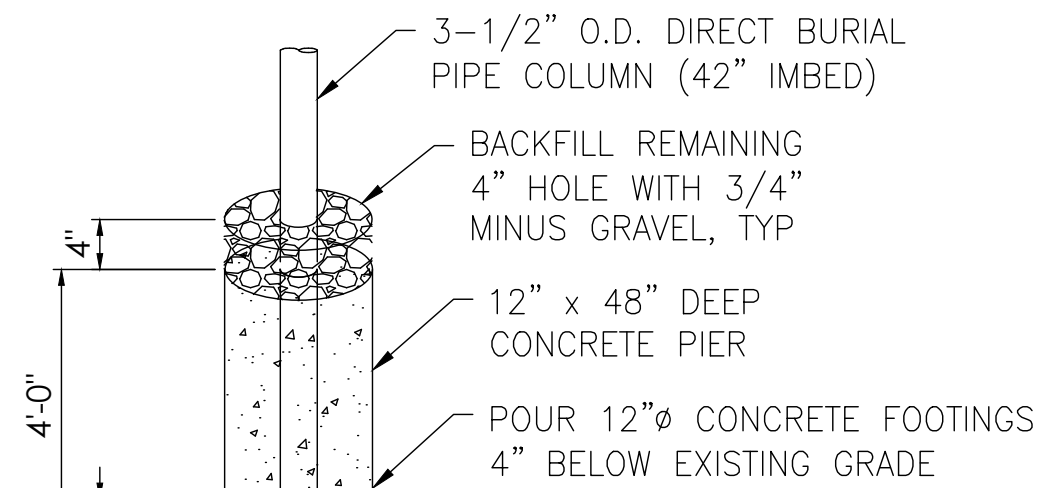
DETAIL A



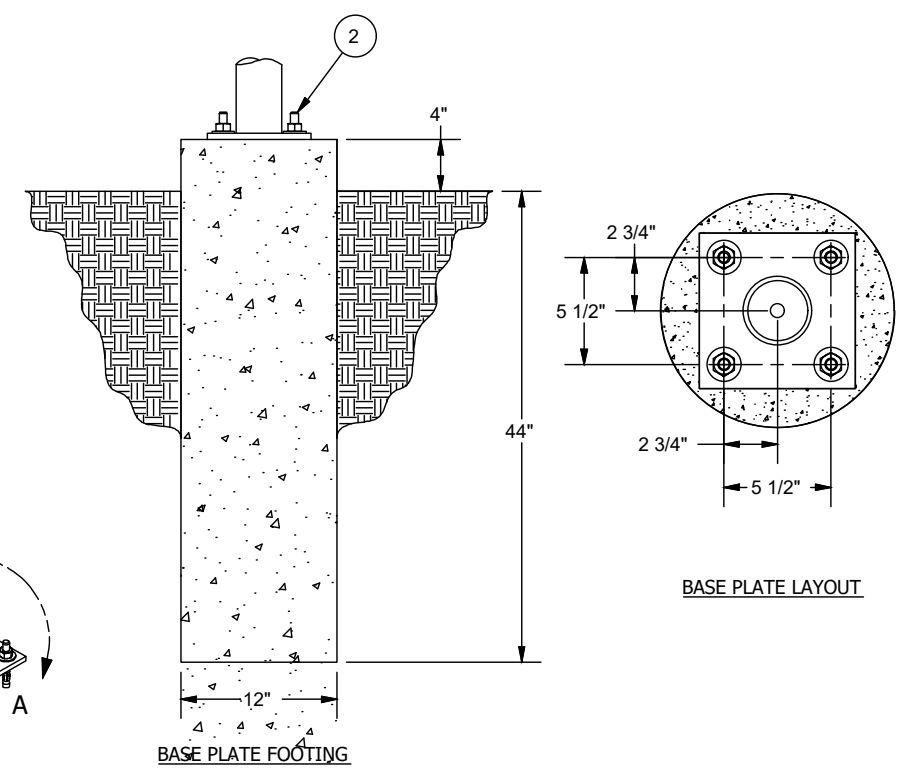
DETAIL A

PARTS LIST					
ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
1	1	X-SP126	BASE SHOE PLATE PIPE COLUMN	89.00	89.00
2	4	SWA585	5/8" X 5" STAINLESS WEDGE ANCHOR	0.64	2.55
TOTAL WT. #				91.55	

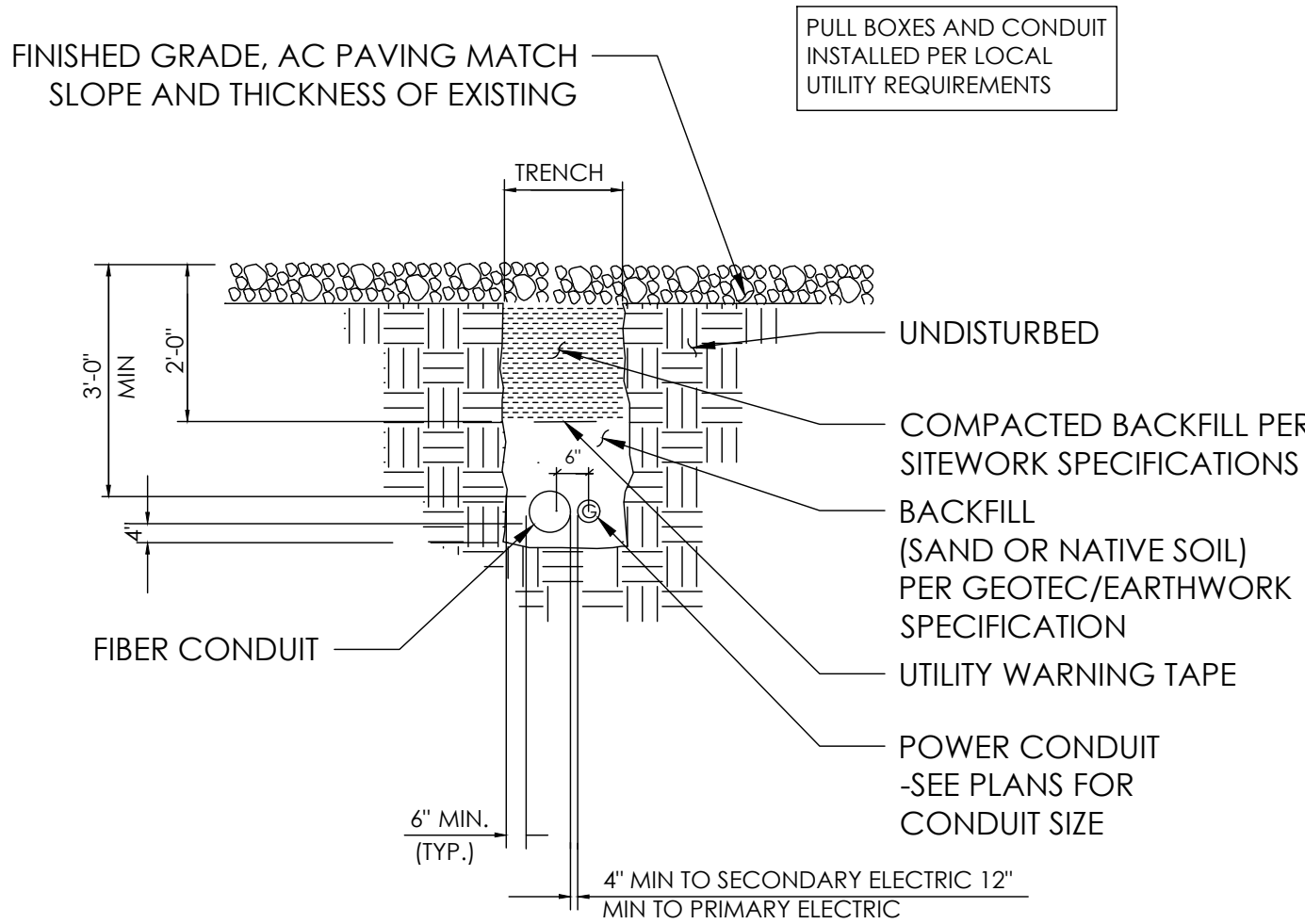
BASE SHOE



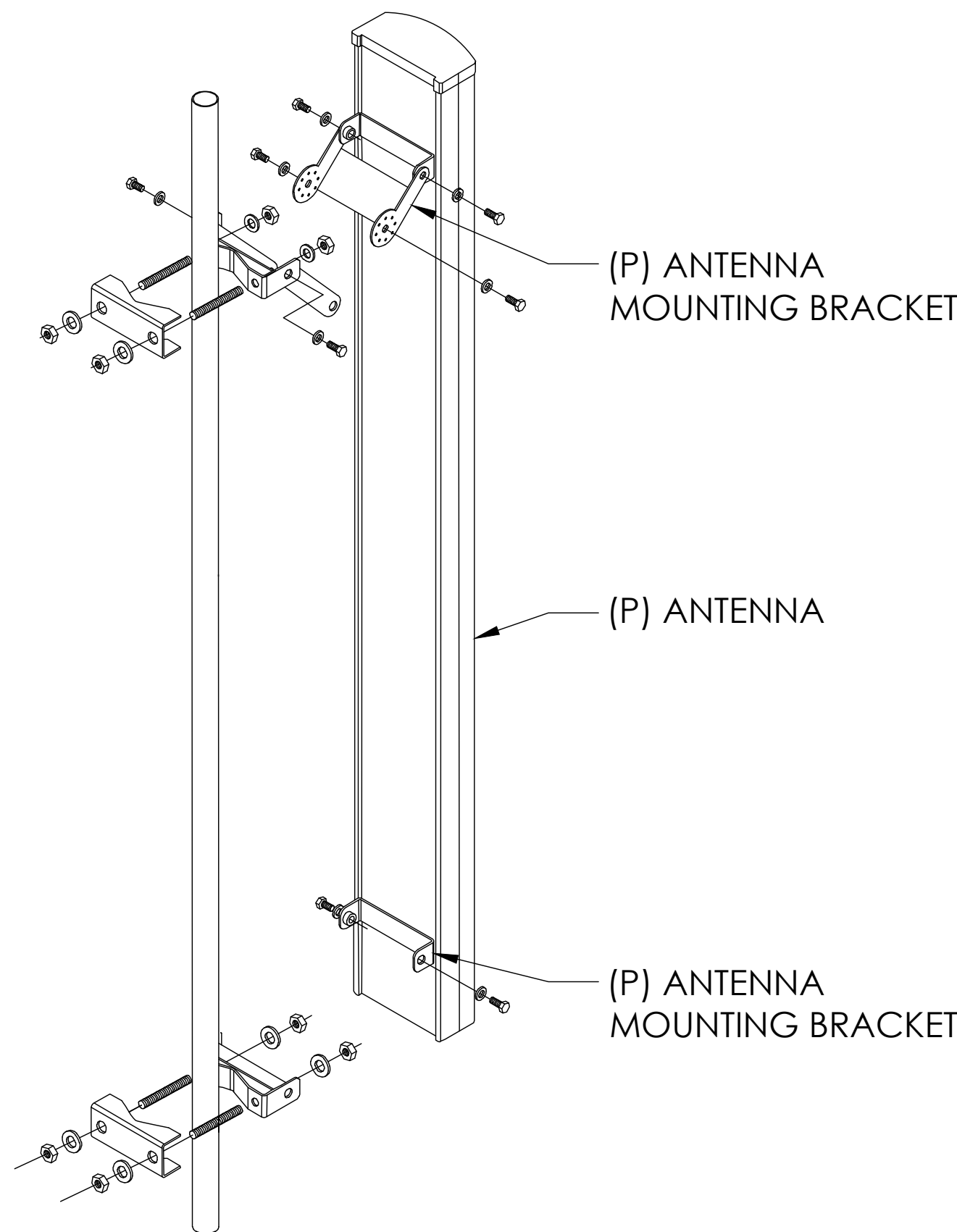
DIRECT BURIAL



BASE PLATE FOOTING



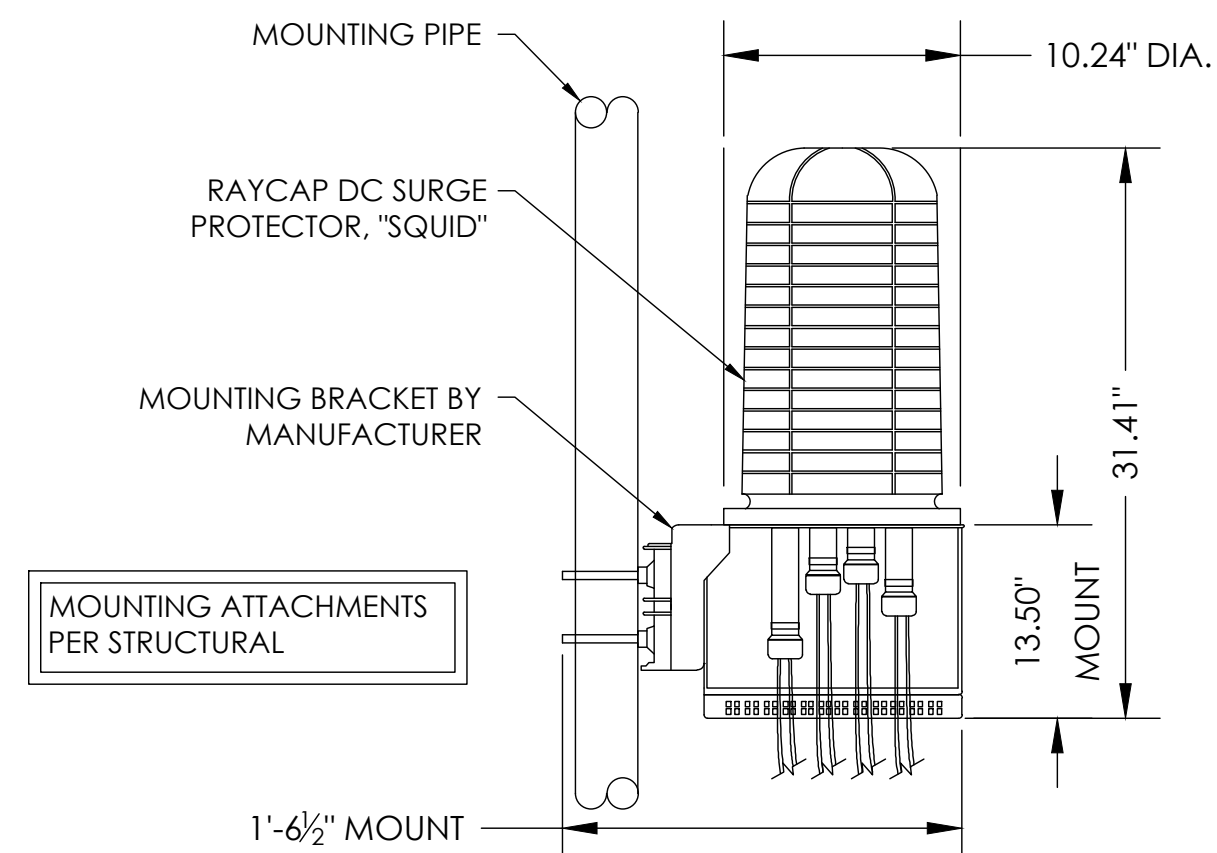
CONDUIT TRENCHING DETAIL



ANTENNA MOUNTING DETAILS

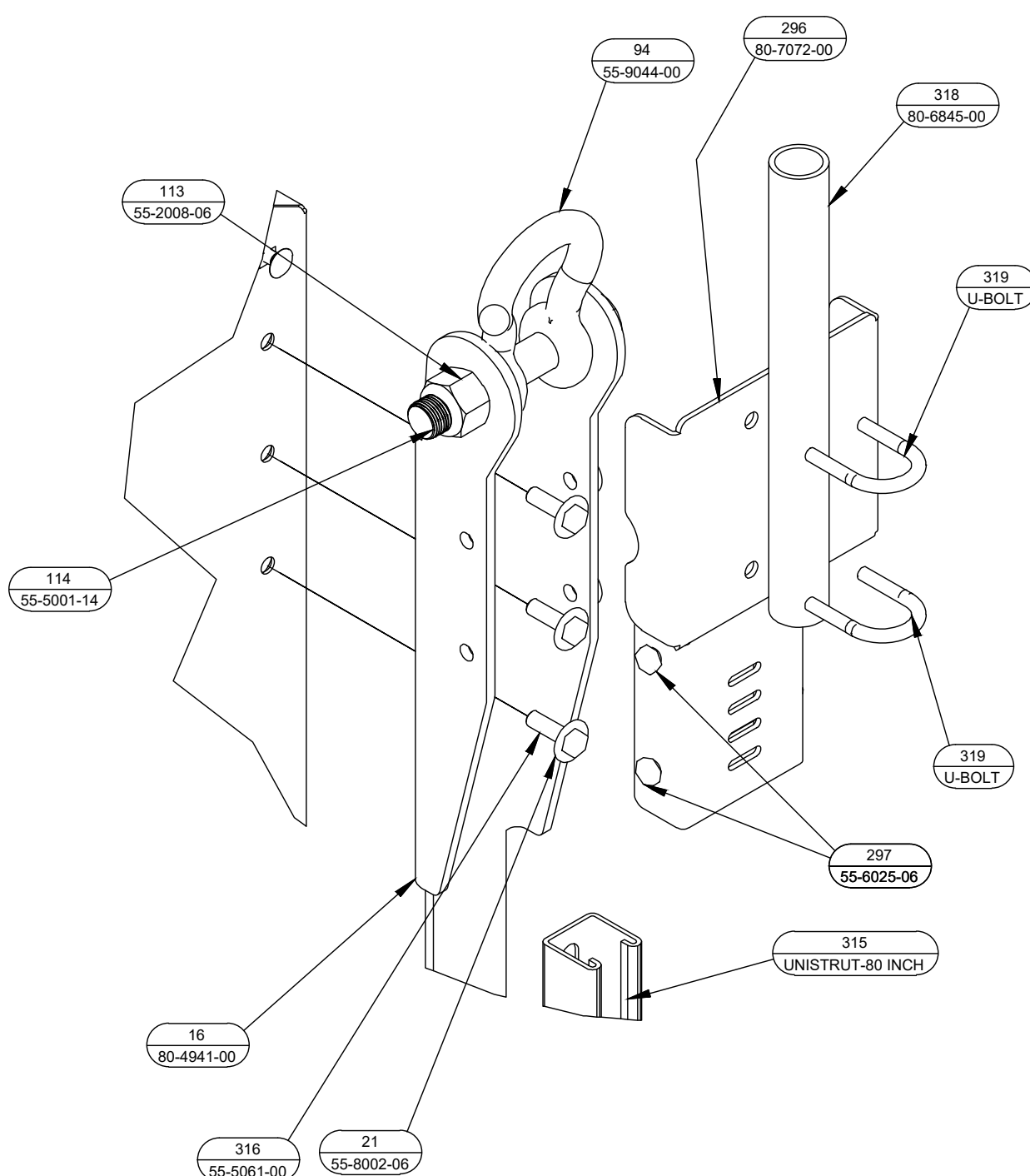
SITEPRO1 - ER105D H-FRAME DETAIL

MANUF: RAYCAP
DESC: SURGE PROTECTOR "SQUID" (OR SIMILAR)
MODEL: DC9-48-60-24-BC-EV
WEIGHT: 26.2 LBS



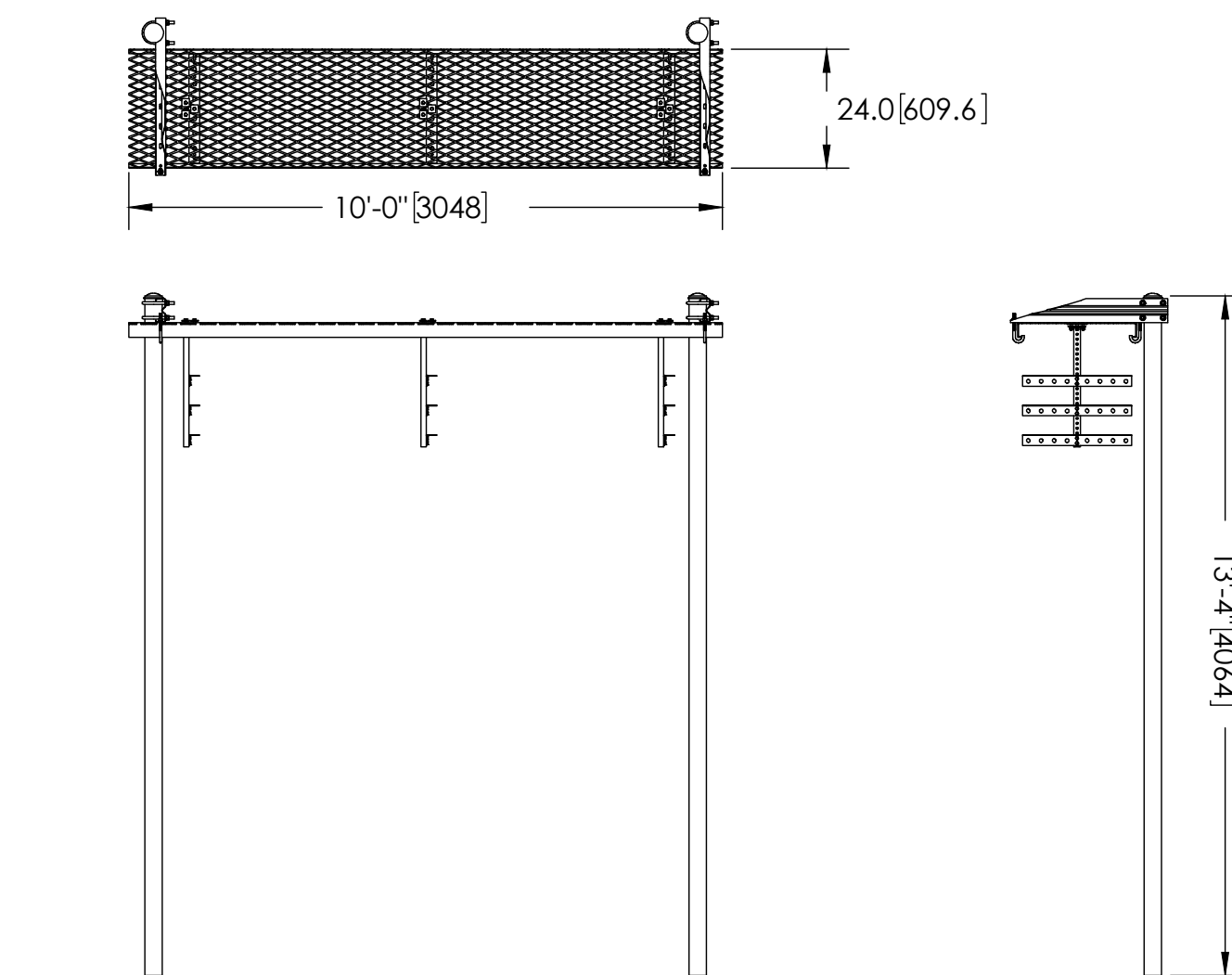
SURGE SUPPRESSOR DETAIL

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
16	4	80-4941-00	LIFTING EYE
21	100	55-8002-06	Washer Flat SS 3/8
94	4	55-9044-00	ANCHOR SHACKLE
113	4	55-2008-06	7/8-14 ZN NYLOCK
114	4	55-5001-14	7/8-14 X 5.00 HHCS
296	4	80-7072-00	GPS MOUNT
297	4	55-6025-06	3/8-16 X 4.5 SS HHCS
315	4	80-7070-00	PAINTED UNISTRUT
316	32	55-5061-00	HHCS ZN 3/8-16 X 1 1/4
318	2	80-6845-00	GPS PIPE MOUNT
319	4	U-BOLT	



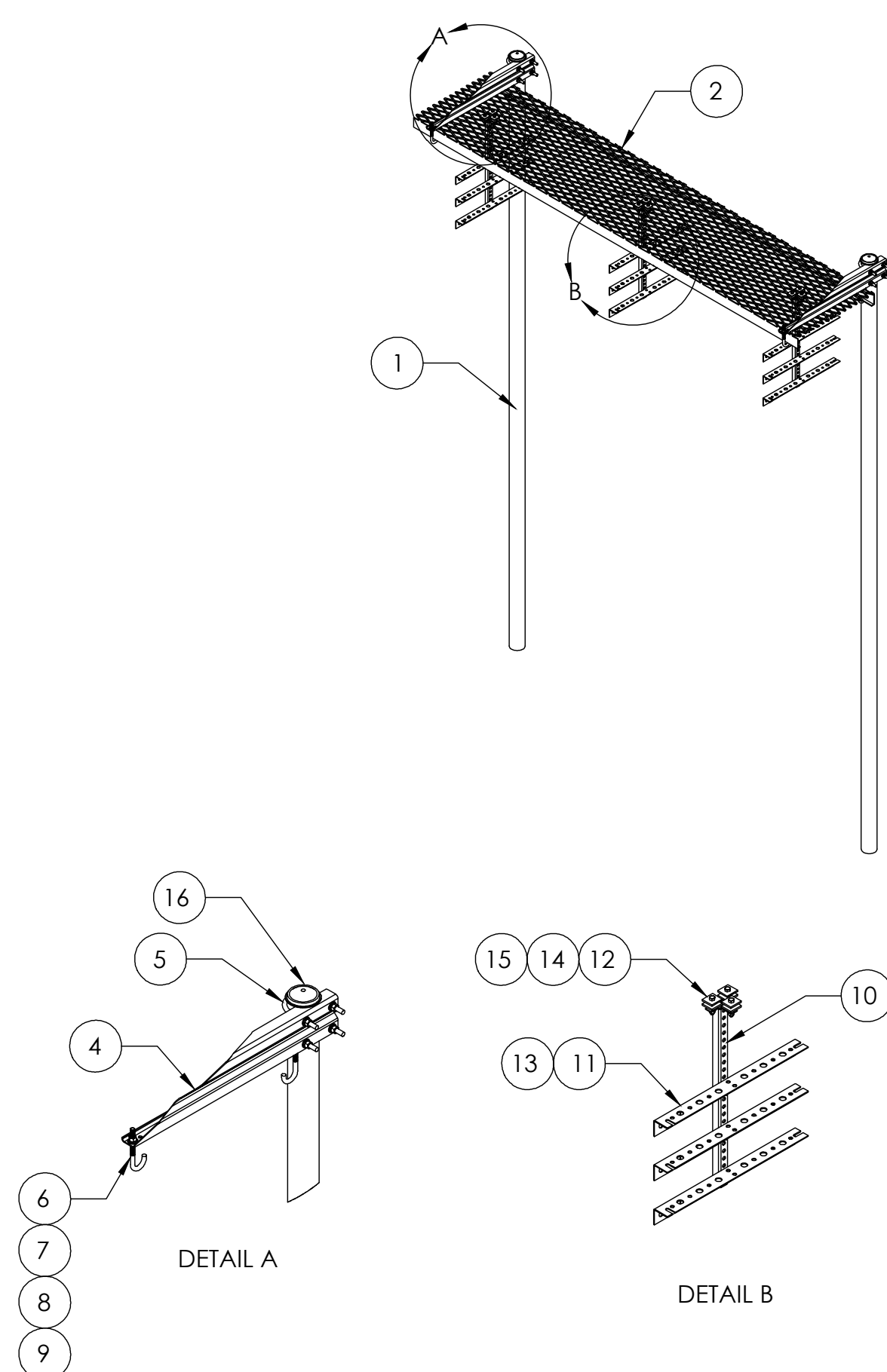
GPS MOUNTING DETAIL

ITEM	PART NO.	DESCRIPTION	QTY	WEIGHT
1	MF-130	Ø 3.5" O.D. X 13'-4" DIRECT BURIAL PIPE COLUMN	2	101.38 LBS
2	WB-CY210	SAFETY GRATING 24" X 10'	1	111.00 LBS
3	WBK210BHK	HARDWARE KIT (ITEMS 4-16)	1	
4	WBLB243.08	24" WAVEGUIDE BRIDGE SUPPORT BRACKET	2	7.14 LBS
5	GUB-4356	1/2" X 3-5/8" X 6" GALV U-BOLT KIT	4	0.83 LBS
6	WBJB6	1/2" J-BOLT	4	0.41 LBS
7	GWFF-04	1/2" GALV FLAT WASHER	4	0.01 LBS
8	GWL-04	1/2" GALV LOCK WASHER	4	0.01 LBS
9	GN-04	1/2" GALV HEX NUT	4	0.04 LBS
10	WBT243.01	VERTICAL TRAPEZE SECTION	3	2.53 LBS
11	WBT243.02	HORIZONTAL TRAPEZE SECTION	9	2.81 LBS
12	MT-387	SQUARE WASHER, 1-1/2" X 1-5/8" W/ 7/16" HOLE	18	0.12 LBS
13	GB-03105	3/8" X 1" GALV BOLT KIT	18	0.04 LBS
14	GB-03205	3/8" X 2" GALV BOLT KIT	9	0.04 LBS
15	GWFF-03	3/8" GALV FLAT WASHER	9	0.01 LBS
16	PC-034	Ø 3 1/2" PIPE CAP	2	0.28 LBS



NOTES:
1. ALL METRIC DIMENSIONS ARE IN BRACKETS.

ICE BRIDGE DETAIL



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BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDLO2365

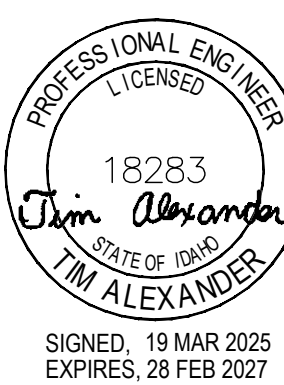
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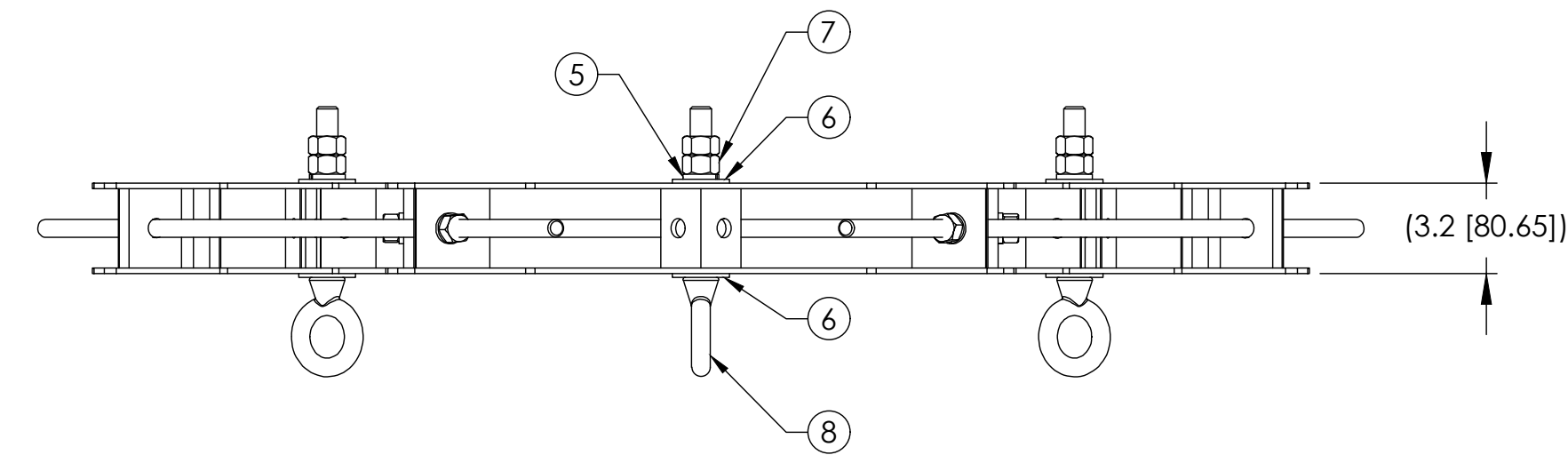
SHEET TITLE:

DETAILS

SHEET NUMBER:

A-5.1

- 1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X.X]
- 1.2 FOR PATENT INFO: <https://www.cs-pat.com>
- 2.0 DESIGN NOTES
- 2.1 ANY HAZARDS OR OBSTRUCTIONS TO THE CLIMBING FACILITY AND SAFETY CLIMB MUST BE IDENTIFIED PRIOR TO INSTALLING THE APPURTENANCE. ADDITIONAL PRODUCTS MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF THE SAFETY CLIMB. DURING INSTALLATION, TEMPORARY AND/OR PERMANENT PRECAUTIONARY MEASURES SHOULD BE TAKEN TO PRESERVE THE CLIMBING FACILITY AND/OR SAFETY CLIMB
- 2.2 INSTALL SO AS TO NOT UNNECESSARILY OBSTRUCT THE CLIMBING PATH OR CLIMBING FACILITY
- 2.3 THREADED RODS CAN BE CUT BACK POST INSTALLATION TO PREVENT OBSTRUCTION AS PER REQUIREMENTS OF TOWER OWNER
- 2.4 REVIEWED FOR USE WITH A MINIMUM POLE DIAMETER OF 10" WITH WALL THICKNESS OF 3/16" AND A YIELD STRENGTH OF 36 KSI. FOR USE ON THINNER MATERIAL REQUIRES ADDITIONAL ENGINEERING REVIEW
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 3.1 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD. TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT
- 4.0 TEST
- 5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET COMMSCOPE REQUIREMENTS PER DOCUMENT IS-PL-3005
- 5.2 PRINTED DOCUMENT TO BE PLACED INSIDE POLYBAG AND THEN IN SHIPPING CONTAINER
- 5.3 EXTRA HARDWARE MAY BE SUPPLIED, BAGGED AND SHIPPED



NOTE: 1 - MAXIMUM NET CABLE WEIGHT FOR STRAIGHT POLES:

- A - PER EYEBOLT = 750 LBS
B - PER MOUNT = 2250 LBS

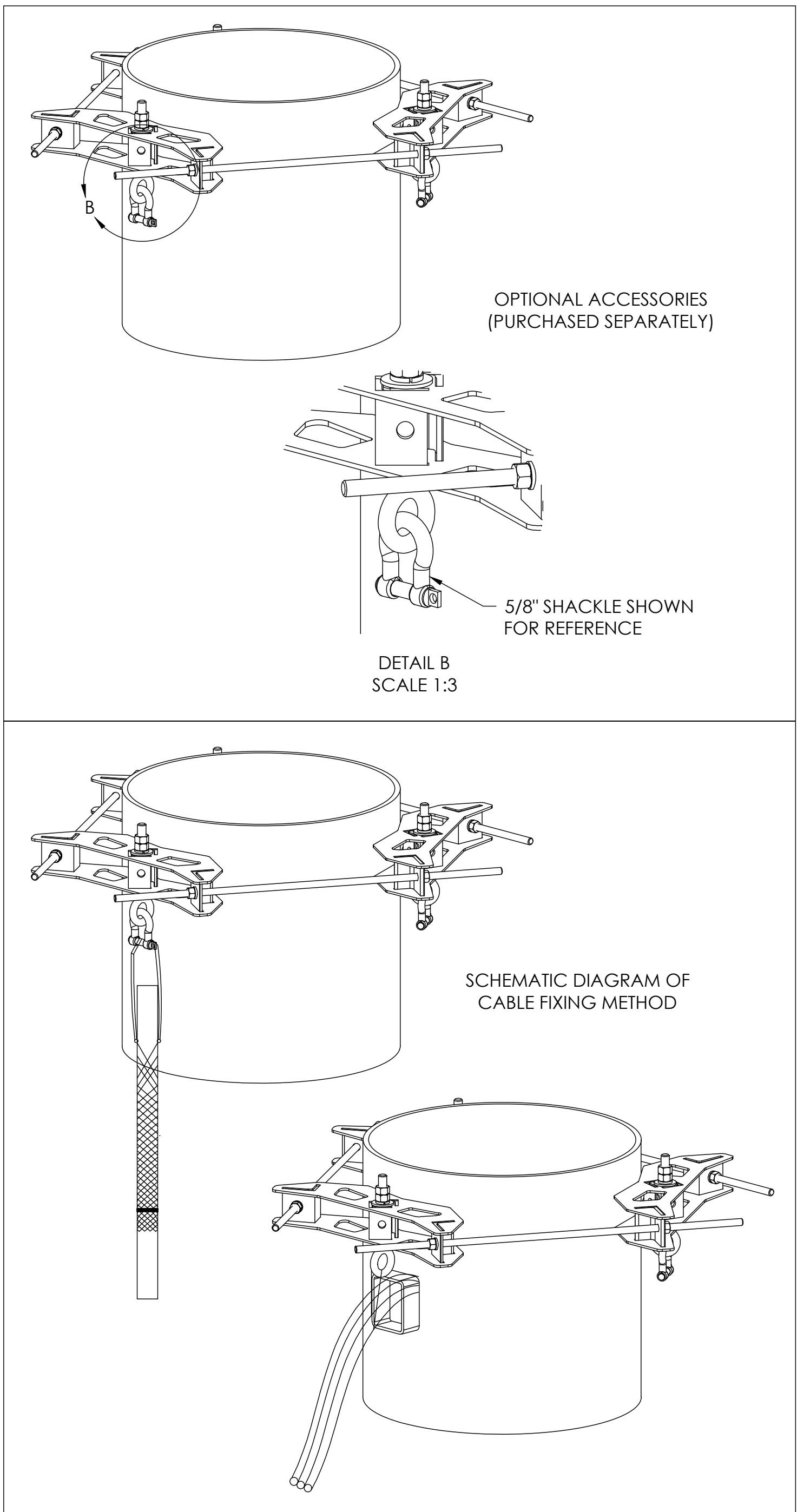
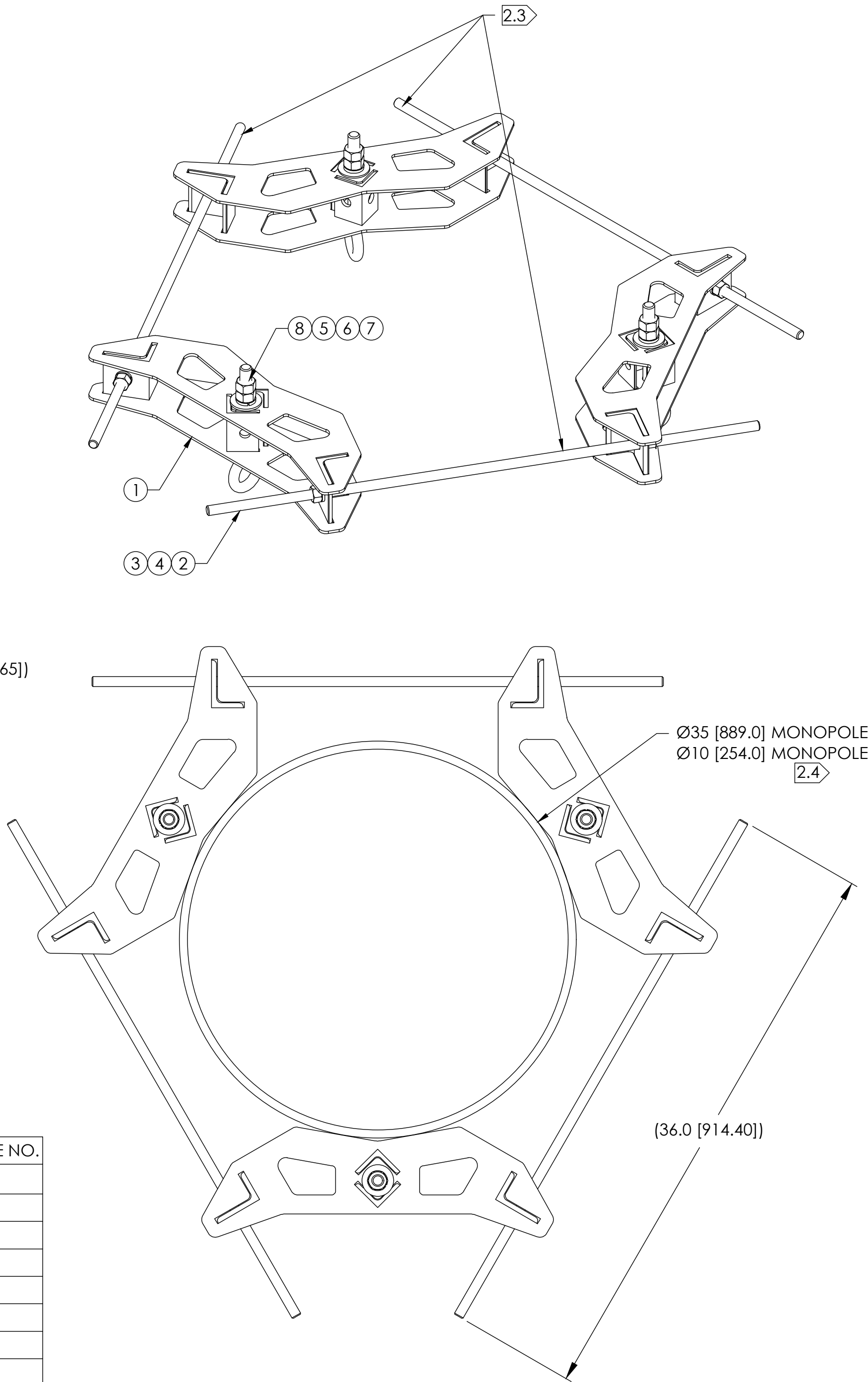
2 - MAXIMUM NET CABLE WEIGHT FOR TAPERED POLES:

- A - PER EYEBOLT = 1000 LBS
B - PER MOUNT = 3000 LBS

3 - REVIEWED FOR USE WITH A MINIMUM POLE DIAMETER OF 10" WITH WALL THICKNESS OF 3/16" AND A YIELD STRENGTH OF 36 KSI. FOR USE ON THINNER MATERIAL REQUIRES ADDITIONAL ENGINEERING REVIEW

COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES;
INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	MTC8606-02-00	HG ANCHOR, MONOPOLE MOUNT WELDMENT	3	12.45 LBS	
2	MT-382-36	5/8" X 36" GALV THREADED ROD	3	3.11 LBS	
3	GN-05	5/8" GALV HEX NUT	6	0.08 LBS	
4	GWL-05	5/8" GALV LOCK WASHER	6	0.03 LBS	
5	GWL-06	3/4" GALV LOCK WASHER	3	0.04 LBS	
6	GWL-06	3/4" GALV FLAT WASHER	6	0.10 LBS	
7	GN-06	3/4" GALV HEX NUT	3	0.15 LBS	
8	9674-4	BOLT,EYE,3/4X6,STL,GALV	3	0.20 LBS	



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Tower Owner:



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A&E:



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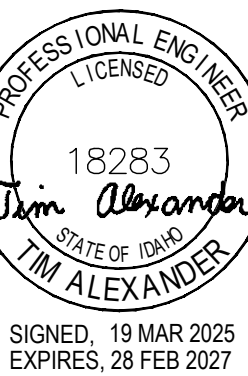
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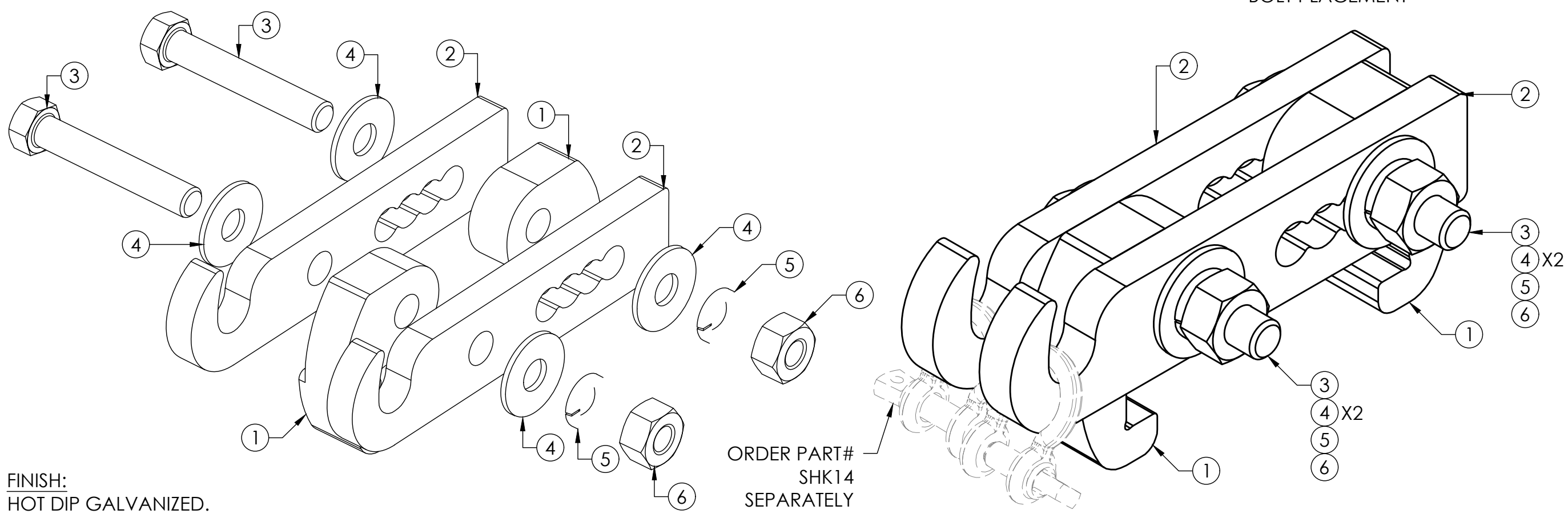
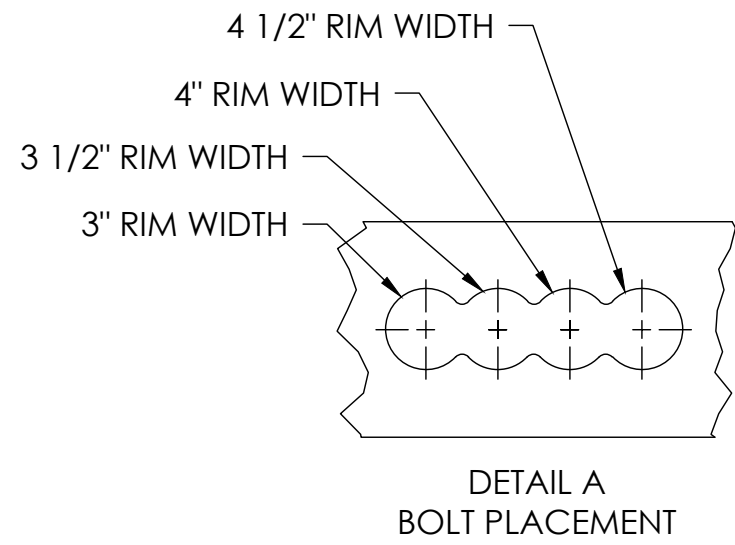
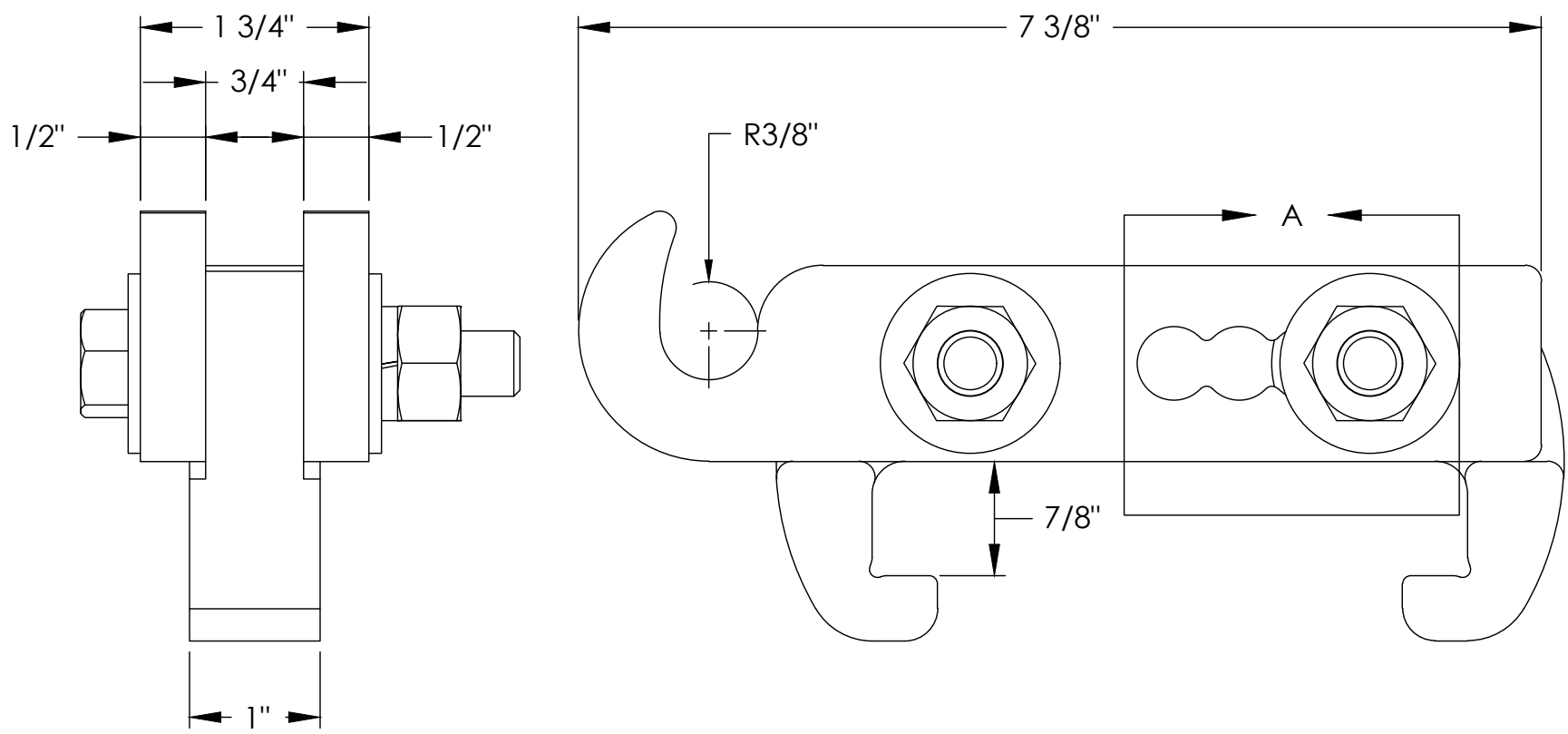
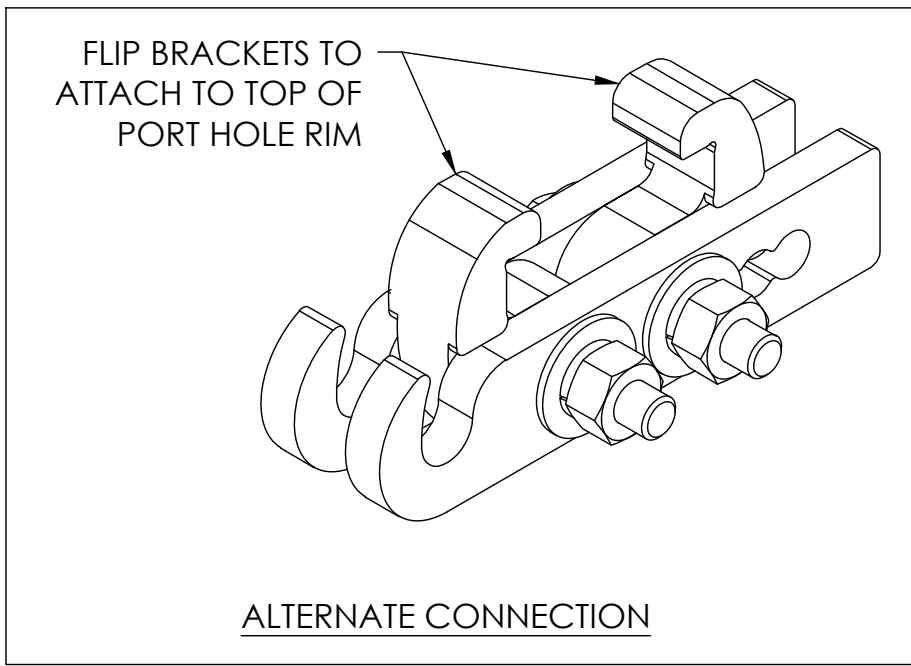
PRELIMINARY CD'S

SHEET TITLE:

SHEET NUMBER:

A-5.2

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
TOTAL WT. #						5.71



AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714


Tower Owner:



**CROWN
CASTLE**

2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:



**at&t
Mobility**

7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

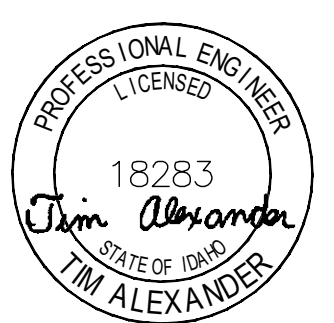


TELCTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
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9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licenser:



SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, TO ALTER THIS
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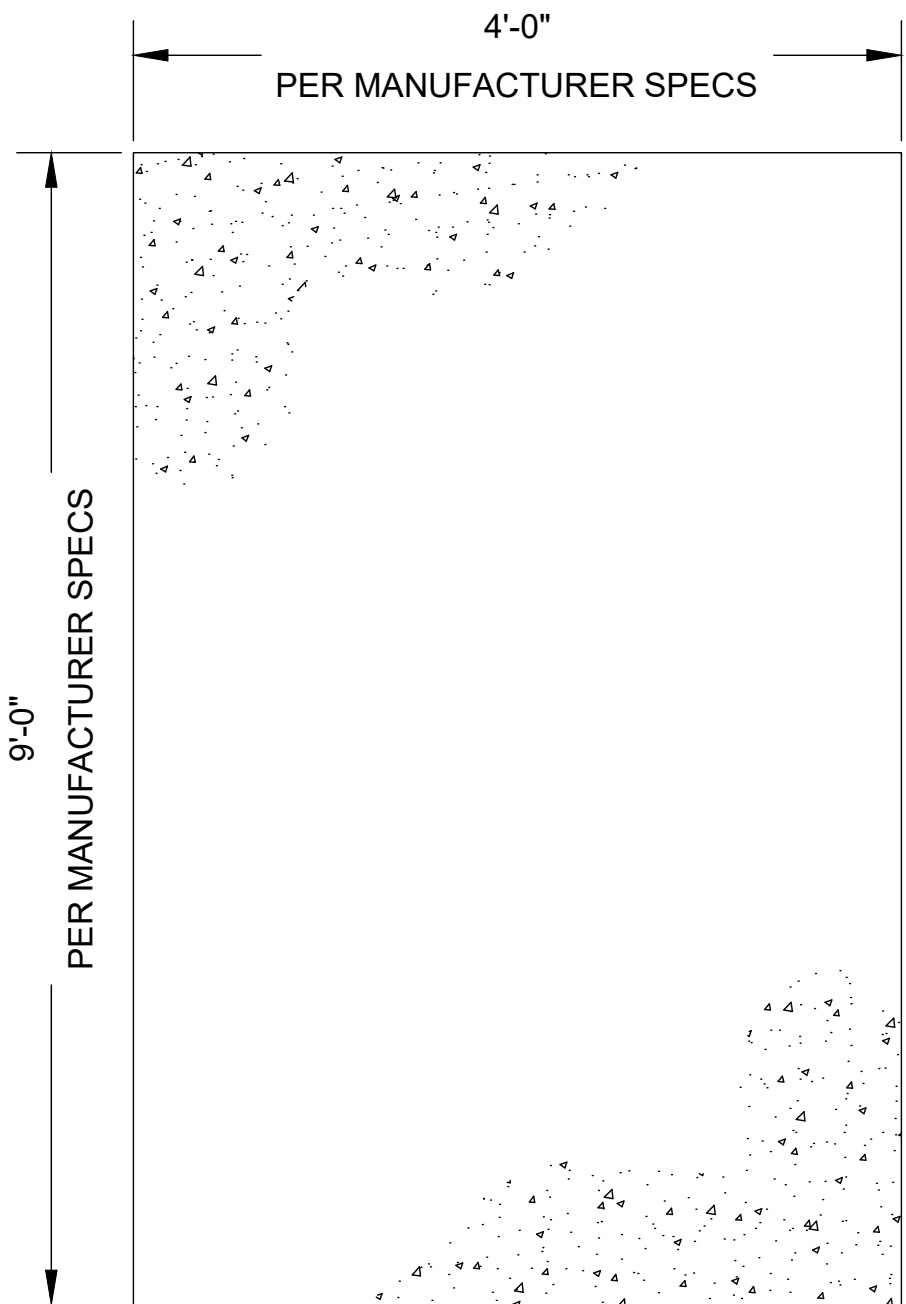
Issued For:
3/19/25
PRELIMINARY CD'S

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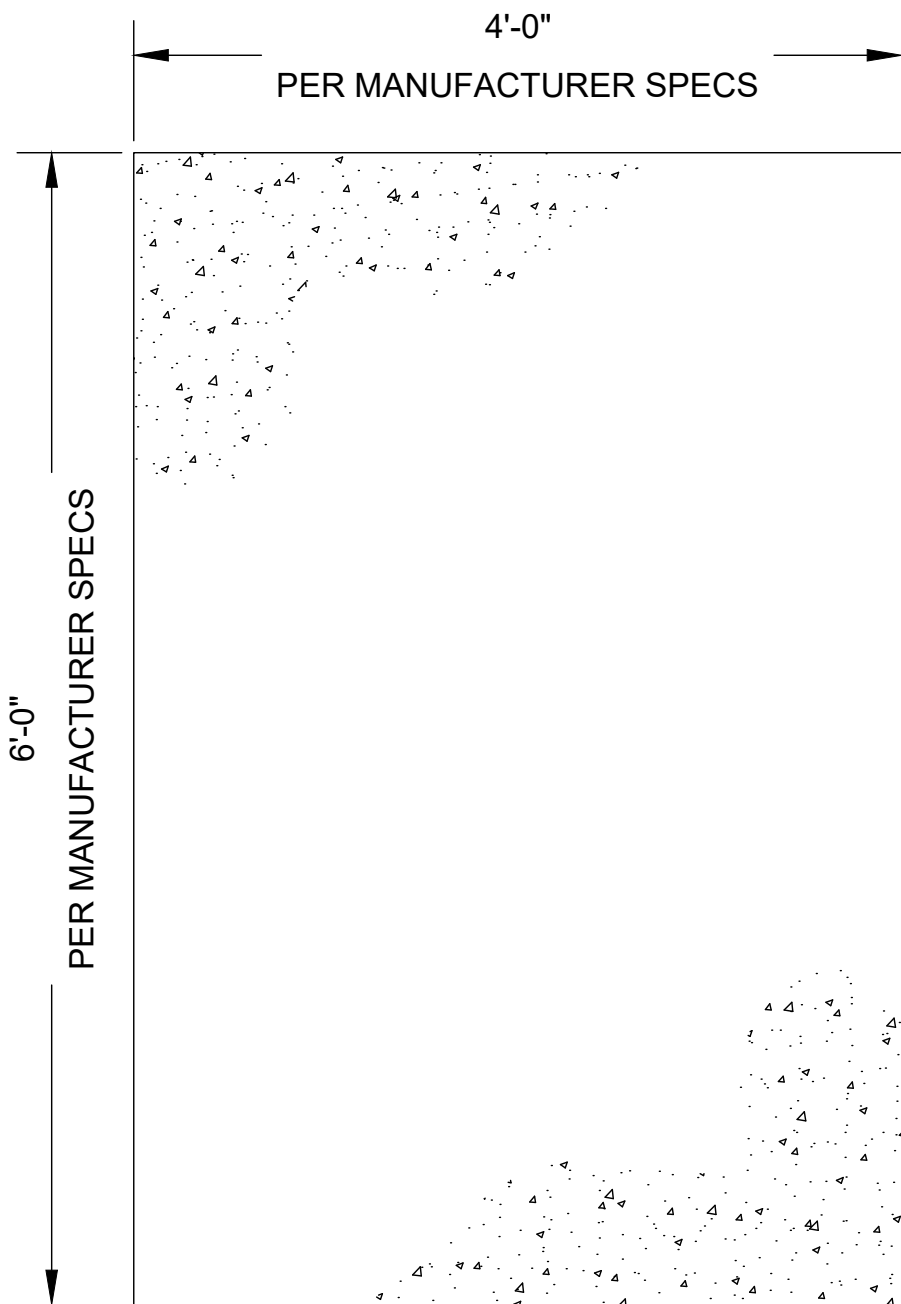
SHEET NUMBER:
A-5.3

NOTES:

- ALL DIMENSIONS OF SHELTER SHALL MATCH MANUFACTURER PROVIDED SPECIFICATIONS
- ALL REQUIRED TIE DOWN PLATES, SHIMS, BOLTS, AND ANCHORS SHALL BE PLACED INSIDE SHELTER PRIOR TO SHIPMENT FROM MANUFACTURER
- SLOPE GRADE AWAY FROM FOUNDATION.
- SLAB DIMENSIONS, ORIENTATION, AND LOCATION OF STOOP TO MATCH CABINET MODEL AND DETAILS
- GENERATOR CONCRETE PAD SHALL MATCH DETAILS AND DIMENSIONS OF THE PROVIDED GENERAC MODEL



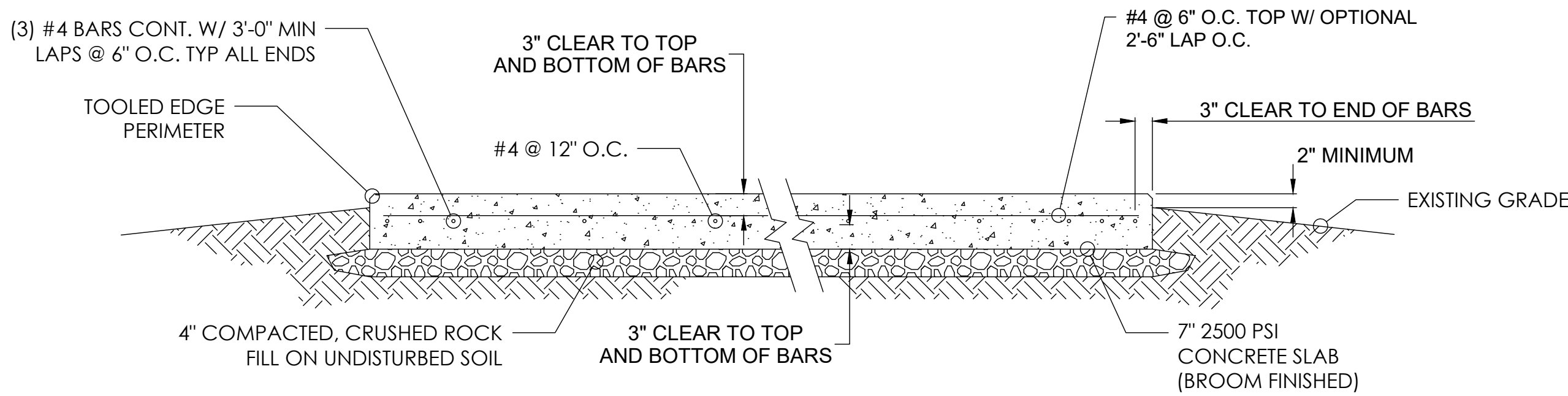
GENERATOR



WALK UP CABINET (WUC)

NOTE:

- VERIFY GENERATOR AND OR PROPANE TANK SPECS PRIOR TO CONSTRUCTION.
- FROST DEPTH NOT CONSIDERED PER IBC 2013 SECTION 1809.5 EXCEPTION 2 (FREE STANDING BUILDINGS WITH 400 SQUARE FEET OR LESS FOR OTHER THAN LIGHT-FRAMED CONSTRUCTION)
- INSTALL (4) HILTI HSL-3M12 ANCHOR BOLTS WITH AN EFFECTIVE EMBEDMENT DEPTH OF 3.15" (SURFACE FLATNESS MAX 1/4" IN 10'-0")
- FIELD VERIFY EXISTING CONDITIONS.



FOUNDATION SECTION DETAIL
NOT TO SCALE

FOUNDATION DETAILS
NOT TO SCALE

AT&T Site ID:

IDL02365

8247 W STATE STREET

BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDL02365

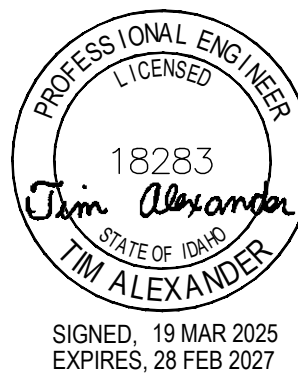
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DRAWN BY: NP

CHECKED BY: CM

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Licenser:



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Issued For:

3/19/25

PRELIMINARY CD'S

SHEET TITLE:

STRUCTURAL PLAN & DETAILS

SHEET NUMBER:

S-1

SITE TYPE: MONOPOLE/WUC

NOT USED
NOT TO SCALE

NOT USED
NOT TO SCALE



Front view



SHEET NUMBER:
S-2

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz



*EPA Certified Prime ratings are not available in the US or its Territories

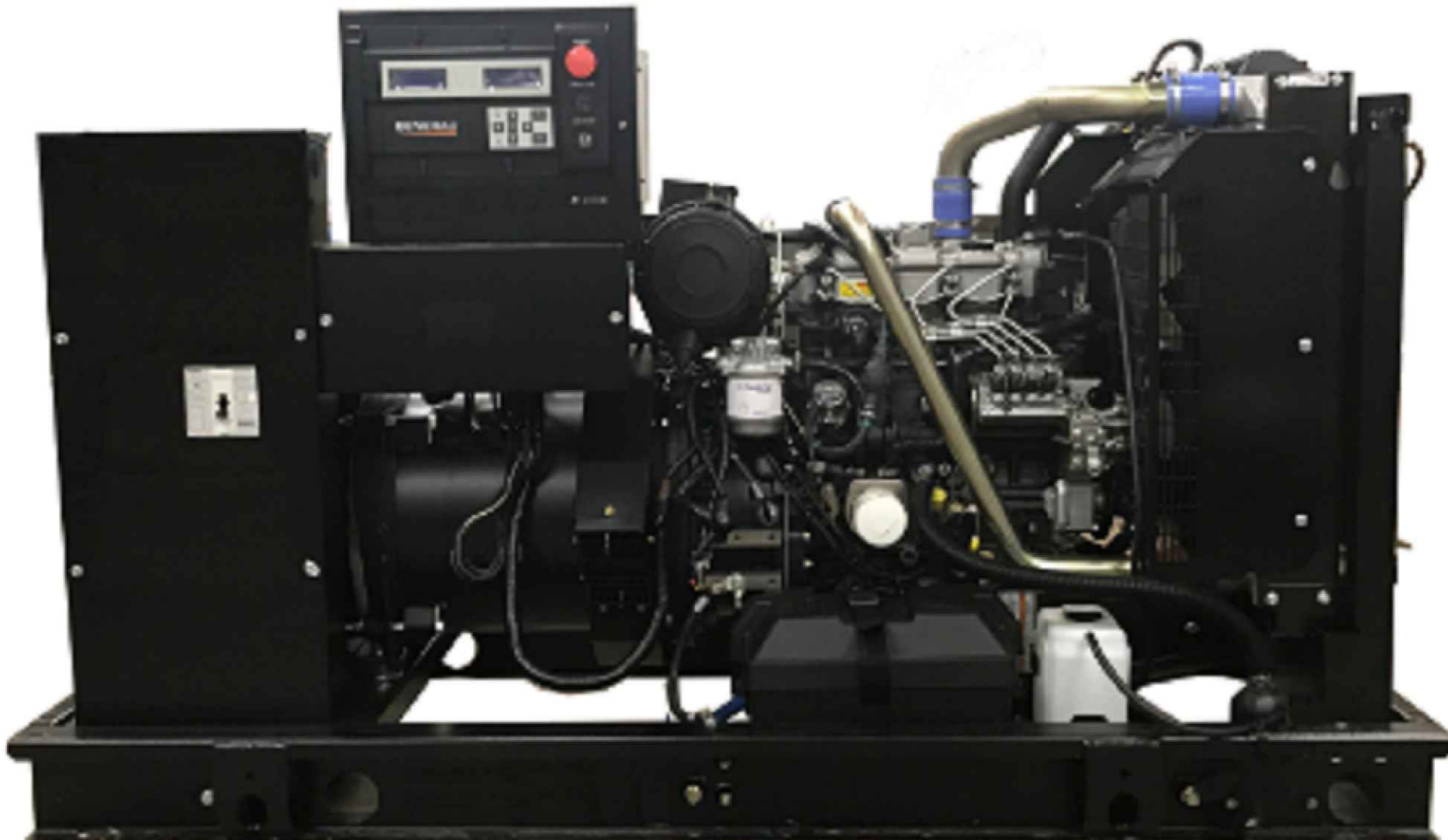


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:

2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:

7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

3450 N HIGLEY RD - SUITE 102
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
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Licensior:

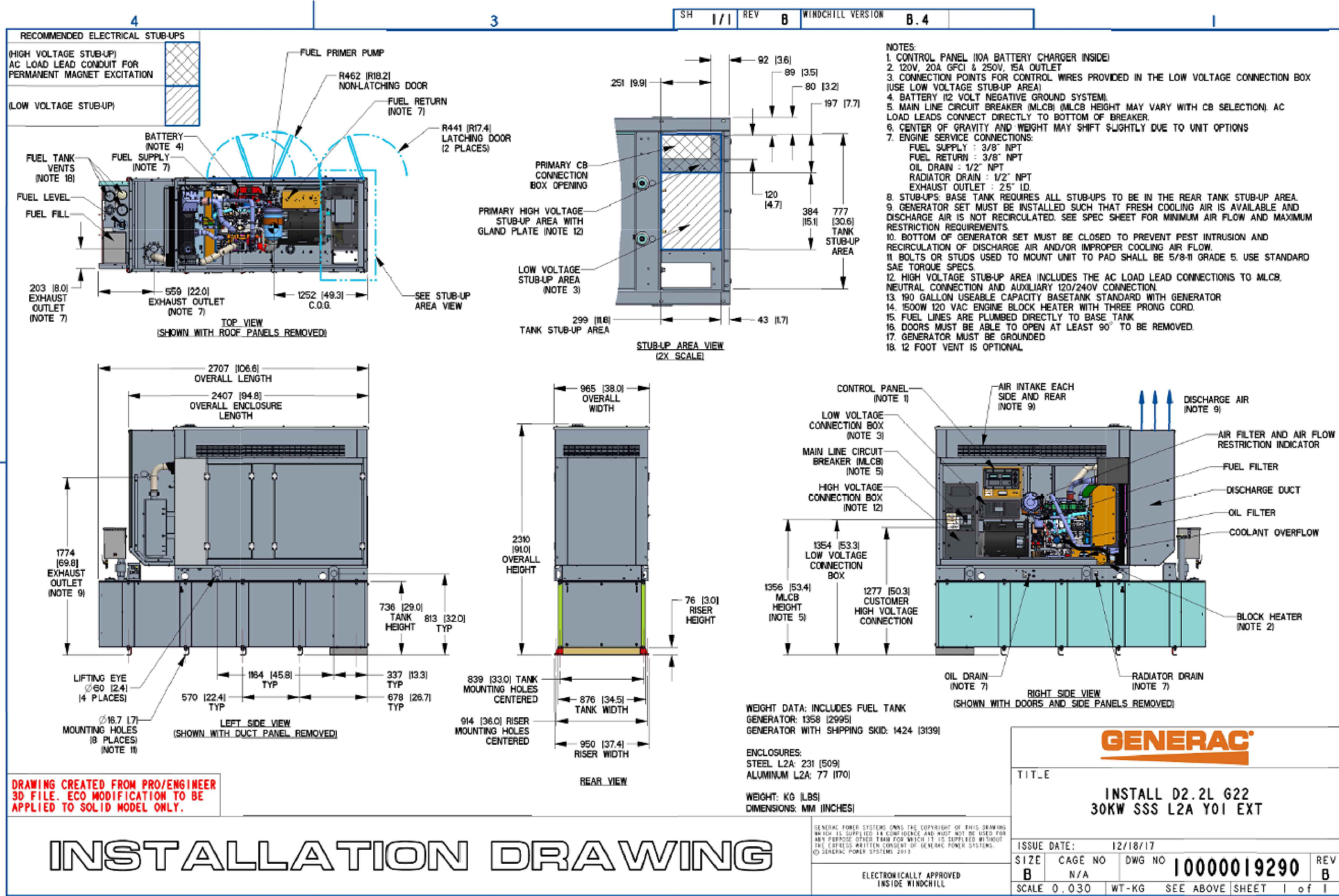
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
GENERATOR DETAILS

SHEET NUMBER:
S-3



AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

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Licensor:
PROFESSIONAL ENGINEER
LICENSED
18283
Jim Alexander
STATE OF IDAHO
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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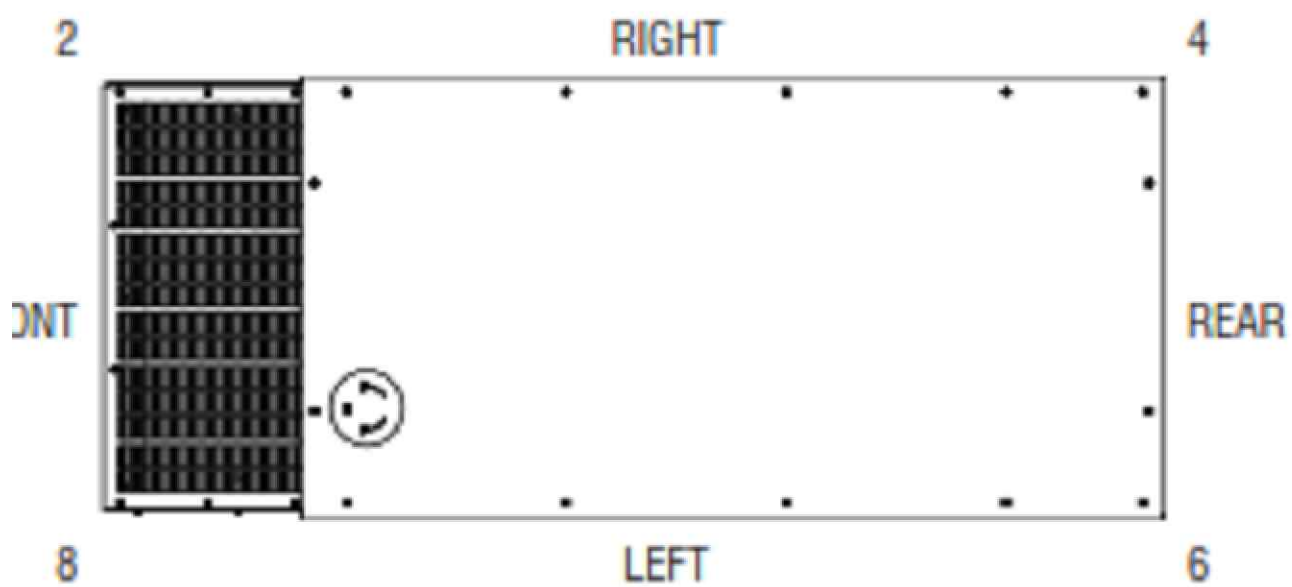
SHEET TITLE:
GENERATOR DETAILS

SHEET NUMBER:
S-4

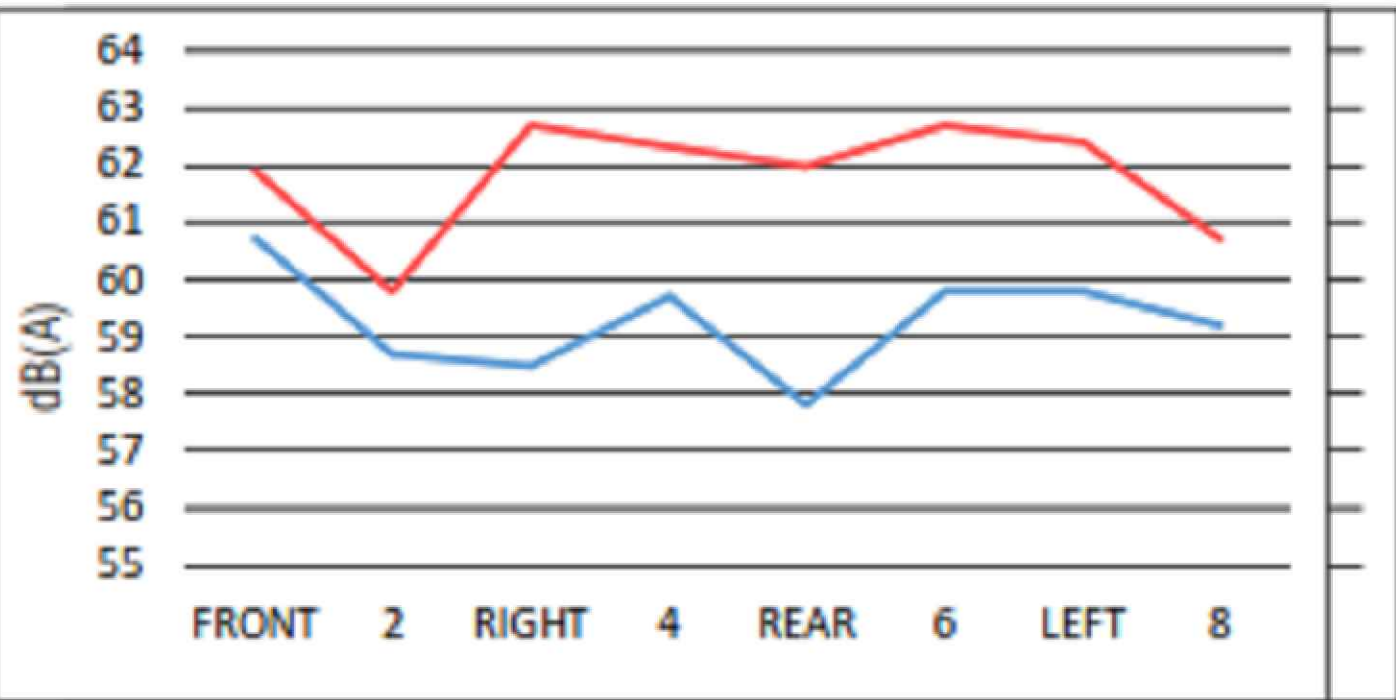
LEVEL 2 SOUND ATTENUATED ENCLOSURE
SD030 2.2L GENERAC

60Hz NO-LOAD, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									dB(A)
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	
1, FRONT	21	42	50	59	53	52	49	46	36	61
2	20	37	48	56	53	54	49	45	37	59
3, RIGHT	19	41	52	55	52	52	49	48	38	59
4	18	53	48	56	54	51	49	44	34	60
5, REAR	16	54	49	52	51	50	47	41	31	58
6	17	55	47	55	52	54	49	45	38	60
7, LEFT	21	54	50	54	53	53	50	46	38	60
8	20	46	47	52	55	55	50	44	38	59
AVERAGE	19	48	49	55	53	53	49	45	36	59

60Hz FULL-LOAD, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									dB(A)
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	
1, FRONT	23	54	52	60	54	52	49	46	36	62
2	21	48	49	55	55	54	49	46	38	60
3, RIGHT	20	50	59	59	54	52	50	50	37	63
4	20	59	49	58	55	52	48	46	35	62
5, REAR	21	60	51	55	54	51	47	41	31	62
6	20	60	49	58	53	53	52	46	38	63
7, LEFT	20	59	55	55	52	54	51	47	39	62
8	21	54	51	54	55	55	50	45	37	61
AVERAGE	21	56	52	57	54	53	49	46	36	62



- All positions at 23 feet (7 meters) from side faces of generator set.
- Test conducted on a 100 foot diameter asphalt surface.
- Sound pressure levels are subject to instrumentation, installation and testing conditions.
- Sound levels are ±2 dB(A)



STATEMENT OF EXHAUST EMISSIONS
2020 PERKINS DIESEL FUELED GENERATOR

The measured emissions values provided here are proprietary to Generac and it's authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Model:	SD030	EPA Certificate Number:	LH3XL2.22TCC-007
kW _e Rating:	30	CARB Certificate Number:	Not Required
Engine Family:	LH3XL2.22TCC	SCAQMD CEP Number:	Not Required
Engine Model:	404D-22TAG	Emission Standard Category:	Tier 4 Interim
Rated Engine Power (BHP)*:	48.8	Certification Type:	Stationary Emergency CI
Fuel Consumption (gal/hr)*:	2.77		(40 CFR Part 60 Subpart IIII)
Aspiration:	Turbo/Aftercooled		
Rated RPM:	1800		

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

Emissions based on engine power of specific Engine Model.
(These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.)

CO	NOx + NMHC	PM	
0.72	5.08	0.116	Grams/kW-hr
0.54	3.79	0.087	Grams/bhp-hr

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- No emissions values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:



PREPARED FOR:



A&E:



AT&T SITE NO: IDLO2365

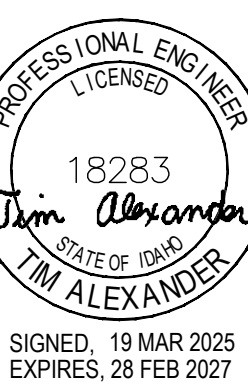
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Licenser:



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Issued For:

3/19/25

PRELIMINARY CD'S

SHEET TITLE:

GENERATOR DETAILS

SHEET NUMBER:

S-5

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.

2. THESE PLANS ARE DIAGRAMMATIC ONLY, AND NOT TO BE SCALED.

3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.

4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDER-WRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "I" WHERE SUBJECT TO SUCH APPROVAL MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.

5. ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

6. ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK WITH ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.

7. ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.

8. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB COMPLETION. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

9. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.

10. PROVIDE THE OWNER WITH ONE SET OF COMPLETE DIMENSIONS AND CIRCUITS, WITHIN 10 WORKING DAYS OF PROJECT COMPLETION. ELECTRICAL "AS BUILT" DRAWINGS, SHOWING ACTUAL LOCATION OF CONDUITS.

11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.

12. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE. ALL CONDUCTORS SHALL BE COPPER.

13. THE EXTERIOR GROUND RING SHALL BE TESTED PER AT&T SPECIFICATIONS AND SHALL HAVE A RESISTANCE TO EARTH OF 5 OHMS OR LESS. IF NOT NOTIFY ENGINEER.

14. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT =CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.

15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.

16. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

17. IN DRILLING HOLES INTO CONCRETE (WHETHER FOR FASTENING OR ANCHORING PURPOSES OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC.) IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND RE-BARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.

18. LOCATION OF TENDONS AN RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.

19. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE LOCAL BUILDING CODES. USING U.L. RATED MATERIALS.

20. ELECTRICAL CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.

21. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT, TO PROJECT MANAGER PRIOR TO COMMENCEMENT OF THE WORK.

22. UPON COMPLETION OF WORK, CONDUCT CONTINUITY AND SHORT CIRCUIT, AS WELL AS, GROUNDING TEST, GROUNDING TEST SHALL BE PREFORMED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.

23. CLEAN PREMISES DAILY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK PREMISES IN A COMPLETE AND UNDAMAGED CONDITION.

24. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH POLYSEAM SEALANT.

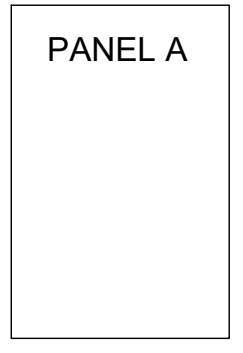
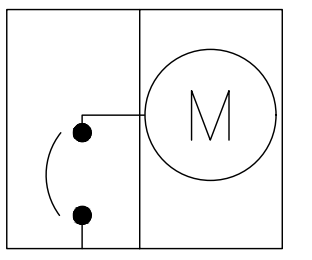

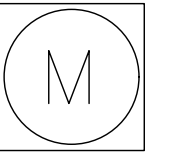
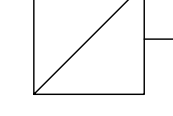
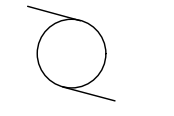
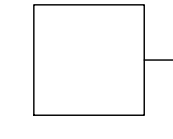
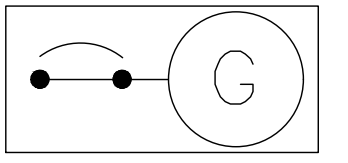
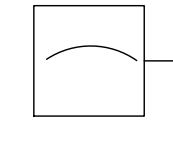
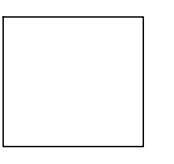
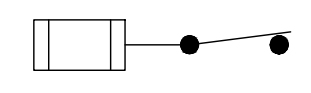
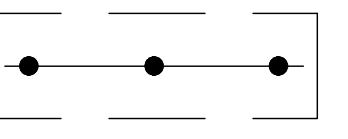

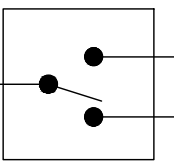

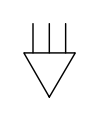

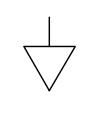
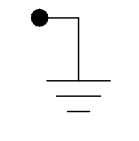

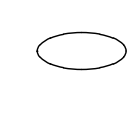
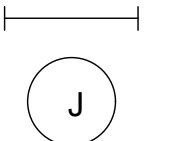
25. ALL #2 TINNED BARE COPPER DOWNLEADS TO BE PROTECTED BY 1/2" P.V.C. PIPE AND SECURED.

26. COMPRESSION FITTINGS TO BE USED ON ALL CONDUITS (NO SET SCREWS).

27. ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE BETWEEN LUG AND BUS BAR.

28. ALL ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED CONDUIT WITH WEATHERPROOF FITTINGS.
- *DATE OF JOB COMPLETION SHALL BE THE DATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER.
- ELECTRICAL NOTES
- | | | | |
|------|-----------------------------|------|--|
| AAV | ALTERNATE ACCESS VENDOR | FMT | FLEXIBLE METALLIC TUBING |
| AC | ALTERNATING CURRENT | G | GROUND |
| AFF | ABOVE FINISHED FLOOR | GEN | GENERATOR |
| AFG | ABOVE FINISHED GRADE | GFCI | GROUND FAULT CURRENT INTERRUPTER |
| AIC | AMPERES INTERRUPT CURRENT | GIP | GENERATOR INTERFACE PANEL |
| AL | ALUMINUM | GND | GROUND |
| A/G | ABOVE GROUND | GPS | GLOBAL POSITIONING SYSTEM |
| AGB | ANTENNA GROUND BAR | GR | GROWTH (CABINET) |
| ATS | AUTOMATIC TRANSFER SWITCH | GRC | GALVANIZED RIGID (STEEL) CONDUIT |
| AWG | AMERICAN WIRE GAUGE | HVAC | HEATING, VENTILATING, AND AIR CONDITIONING |
| AWS | ADVANCED WIRELESS SERVICES | IPC | IDAHO POWER COMPANY |
| BATT | BATTERY | IGB | INTERIOR GROUND BAR |
| BBU | BASEBAND UNIT | IGR | INTERIOR GROUND RING (HALO) |
| BCW | BARE COPPER WIRE | IMC | INTERMEDIATE METALLIC CONDUIT |
| BSCW | BARE STRANDED COPPER WIRE | ISCW | INSULATED STRANDED COPPER WIRE |
| BTCW | BARE TINNED COPPER WIRE | KAIC | KILOAMPERES INTERRUPT CURRENT |
| C | CONDUIT | LTE | LONG TERM EVOLUTION |
| CAB | CABINET | MGB | MAIN (OR MASTER) GROUND BAR |
| CGB | COLLECTOR GROUND BAR | MIN | MINIMUM |
| CKT | CIRCUIT | MTS | MANUAL TRANSFER SWITCH |
| CT | CURRENT TRANSFORMER | MW | MICROWAVE |
| CU | COPPER | N | NEUTRAL |
| DC | DIRECT CURRENT | NEC | NATIONAL ELECTRIC CODE |
| DEI | DIGITAL EXPANSION INTERFACE | NID | NETWORK INTERFACE DEVICE |
| DISC | DISCONNECT | OC | ON CENTER |
| EGB | EXTERIOR GROUND BAR | O/H | OVERHEAD |
| EMT | ELECTRICAL METALLIC TUBING | PCS | PERSONAL COMMUNICATION SERVICES |

	PANELBOARD		TINNED COPPER GROUND BAR
	DISCONNECT SWITCH		COPPER CLAD GROUND ROD
	METER		COPPER GROUND ROD WITH INSPECTION SLEEVE (TEST WELL)
	SIMPLEX RECEPTACLE		MECHANICAL CONNECTION (LUG CRIMP OR C CLAMP)
	DUPLEX RECEPTACLE		COMPRESSION TYPE CONNECTION
	QUADRUPLUX RECEPTACLE		EXOTHERMIC CONNECTION (CADWELD)
	GENERATOR OR SPECIAL RECEPTACLE		BRANCH CKT. HOMERUN TO PANEL. @ INDICATES PANEL, # INDICATES CKT. NO.
	TOGGLE SWITCH, 1P		DIMMER SWITCH, 1P
	3-WAY SWITCH, 1P		
	RECESSED FLUORESCENT LUMINAIRE		A/G AC POWER
	SURFACE MOUNTED FLUORESCENT LUMINAIRE		A/G DC POWER
	WRAPAROUND FLUORESCENT LUMINAIRE		O/H AC POWER
	WALL-MOUNTED LUMINAIRE		U/G AC POWER
	EXIT SIGN		A/G TELEPHONE RUN
	THERMOSTAT		U/G FIBER
	SMOKE DETECTOR		U/G TELEPHONE RUN
	HYDROGEN DETECTOR		HYBRID FLEX CABLE
	FIRE EXTINGUISHER		GAS LINE
	PHOTOCELL		U/G WATER LINE

	PANELBOARD OR SWITCHGEAR		COMBINATION METER & MAIN BREAKER
	COMBINATION MOTOR STARTER		STANDALONE METER
	FUSED DISCONNECT		MOTOR
	UNFUSED DISCONNECT		GENERATOR
	DISCONNECT WITH BREAKER		SPLICE BOX, JUNCTION BOX, OR HANDHOLE
	FUSED SWITCH (INSIDE SWITCHBOARD)		GUTTER OR WIREWAY
	CIRCUIT BREAKER (INSIDE SWITCHGEAR)		AUTOMATIC OR MANUAL TRANSFER SWITCH
	POTENTIAL TRANSFORMER		ELECTRICAL SERVICE WEATHERHEAD
	CURRENT TRANSFORMER		TELEPHONE SERVICE WEATHERHEAD
	GROUND		GENERATOR PLUG
	FEEDER KEY		CONDUIT ADAPTER OR COUPLING


AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:



2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:



7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

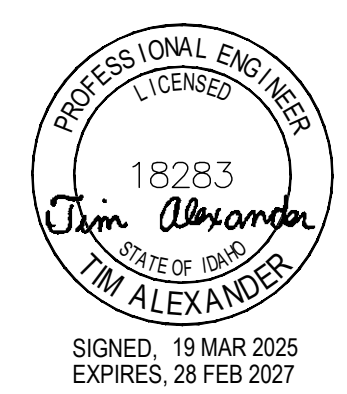


INFRASTRUCTURE SERVICES
3460 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO:	IDL02365
BU NO:	824322
DRAWN BY:	NP
CHECKED BY:	CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
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1	01/10/22	CLIENT REVISIONS
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9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licensor:



SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

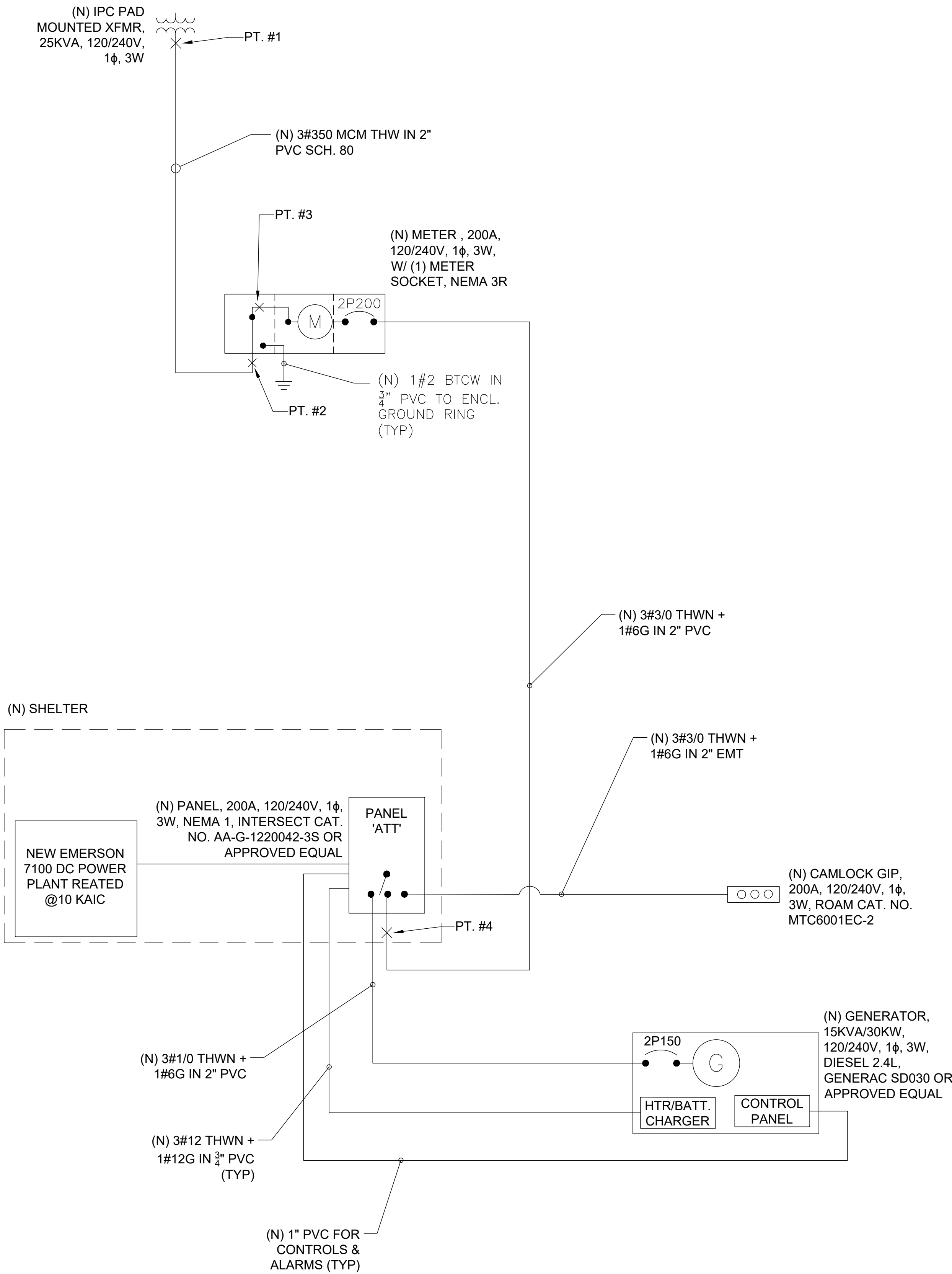
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Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
GENERAL
ELECTRICAL/
GROUNDING NOTES

SHEET NUMBER:
E-1

SITE TYPE: MONOPOLE/WUC



NOTES:

1. ACTUAL VALUES FOR FAULT CURRENT SHOWN IN DETAIL 1.

AC POWER PANEL No. 1											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200											
MAIN BREAKER RATING (A) :						SYSTEM VOLTAGE (V) : 240					
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
RECTIFIER # 1	1725	c	30	1	3450		2	30	c	1725	RECTIFIER # 4
	1725	c		3		3450	4		c	1725	
RECTIFIER # 2	1725	c	30	5	3450		6	30	c	1725	RECTIFIER # 5
	1725	c		7		3450	8		c	1725	
RECTIFIER # 3	1725	c	30	9	3450		10	30	c	1725	RECTIFIER # 6
	1725	c		11		3450	12		c	1725	
RECTIFIER # 7	1725	c	30	13	1725		14	30			RECTIFIER # 10 / SPARE
	1725	c		15		1725	16				
RECTIFIER # 8 / SPARE			30	17	0		18	30			RECTIFIER # 11 / SPARE
				19		0	20				
RECTIFIER # 9 / SPARE			30	21	0		22	30			RECTIFIER # 12 / SPARE
				23		0	24				
HVAC	2122	c	25	25	2482		26	20	nc	360	EXTERIOR LIGHT
	2122	c		27		2482	28		nc	360	DUPLEX RECPT
GFCI	180	nc	20	29	360		30	20	c	180	GENERATOR BLOCK HTR
PHASE TOTALS (VA):					14917	14557					
CURRENT PER PHASE (A):					154	151	Amperes/phase cannot exceed main breaker rating				
PANEL TOTAL (VA):					29474	Legend: c = continuous, nc = non-continuous					
PANEL CAPACITY (kVA):					48.0	CONNECTED LOAD (kVA): 29.5					
PANEL LOADING (100% non-cont. load) (kVA):					0.9						
PANEL LOADING (125% continuous load) (kVA):					35.7						
PANEL LOADING (TOTAL) (kVA):					36.6						
SPARE CAPACITY (kVA):					11.4						

NOTE:
BLOCK HEATER AND BATTERY CHARGER ARE
TO BE ISOLATED AS INDEPENDENT BREAKERS
AND NOT TIED TO ANY GFCI CIRCUITS

3 PANEL SCHEDULE

SHORT CIRCUIT CALCULATIONS BASED UPON POINT METHOD AS ILLUSTRATED IN BUSSMAN PUBLICATION SPD-90.
FAULT VALUES SHOWN ARE FOR LINE-TO-LINE FAULT @ 208 VAC

FAULT CURRENT AT TRANSFORMER SECONDARY PER LOCAL POWER COMPANY											
I _{sc1}	=	V _{F-UT} /V _{S-UT} X M _{UT} X I _{SC-PUT}	=								12175 A
f ₁	=	$\frac{2 \times L \times I_{SC1(L-L)}}{C_1 \times n \times V_{L-L}}$	=	$\frac{2 \times 10 \times 12175}{22737 \times 1 \times 208}$	=						0.0515
M ₁	=	$\frac{1}{1 + f_1}$	=	$\frac{1}{1 + 0.0515}$	=						0.9510
FAULT CURRENT AT METER BANK											
I _{sc2}	=	M ₁ X I _{sc1}	=	0.951 X 12175	=						11579 A
f ₂	=	$\frac{2 \times L \times I_{SC2(L-L)}}{C_2 \times n \times V_{L-L}}$	=	$\frac{2 \times 3 \times 11579}{36500 \times 208}$	=						0.0092
M ₂	=	$\frac{1}{1 + f_2}$	=	$\frac{1}{1 + 0.0092}$	=						0.9909
FAULT CURRENT AT METER BANK BUSBAR											
I _{sc3}	=	M ₂ X I _{sc2}	=	0.9909 X 11579	=						11474 A
f ₃	=	$\frac{2 \times L \times I_{SC3(L-L)}}{C_3 \times n \times V_{L-L}}$	=	$\frac{2 \times 50 \times 11474}{13923 \times 1 \times 208}$	=						0.3962
M ₃	=	$\frac{1}{1 + f_3}$	=	$\frac{1}{1 + 0.3962}$	=						0.7162
FAULT CURRENT AT PANEL 'ATT'											
I _{sc4}	=	M ₃ X I _{sc3}	=	0.7162 X 11474	=						8218 A

1 FAULT CALCULATIONS

SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDLO2365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:

CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:

at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:

TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDLO2365
BU NO: 824322
DRAWN BY: NP
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Licenser:

PROFESSIONAL ENGINEER
LICENSED
18283
Jim Alexander
STATE OF IDAHO
JIM ALEXANDER
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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SHEET TITLE:
POWER ONE-LINE
DIAGRAM

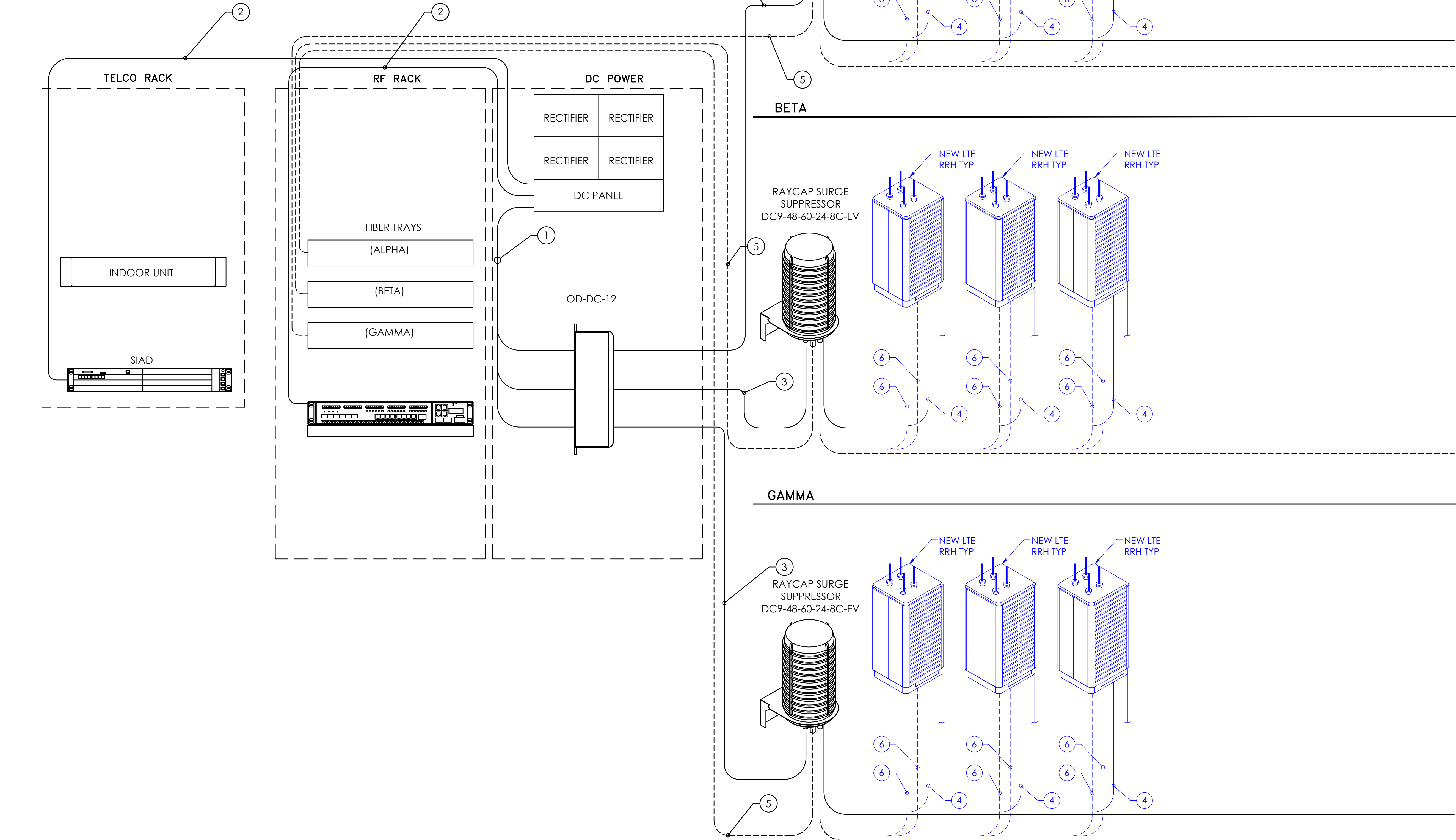
SHEET NUMBER:
E-3

2 ONE-LINE DIAGRAM

CIRCUIT SCHEDULE	
①	-48VDC 50A CIRCUIT (6-AWG)
②	-48VDC 50A CIRCUIT (6-AWG)
③	3 PAIR #6-AWG DC TRUNK CABLE
④	#8-AWG DC JUMPER
⑤	18 PAIR FIBER OPTIC TRUNK CABLE
⑥	FIBER OPTIC JUMPER CABLE

NOTES:

- REFER TO FINAL RFDS FOR RF DESIGN AND PLUMBING.
- REFER TO FINAL RFDS FOR FINAL RADIO HEAD COUNT.
- REFER TO EQUIPMENT LAYOUT FOR RACK LOCATION.
- WIRE LENGTH NOT TO EXCEED 15' FROM SURGE SUPPRESSOR TO RRH.
- RRH & SQUID DESIGN TYPICAL PER SECTOR.
- ROUTE TO THE NEAREST GROUND BAR TYP.
- DAISY CHAIN RRHs ONLY WHEN REQUIRED BY SPECTRUM CONSTRAINTS.



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8247 W STATE STREET
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CHANDLER, AZ 85286

PREPARED FOR:
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7670 S. CHESTER ST.
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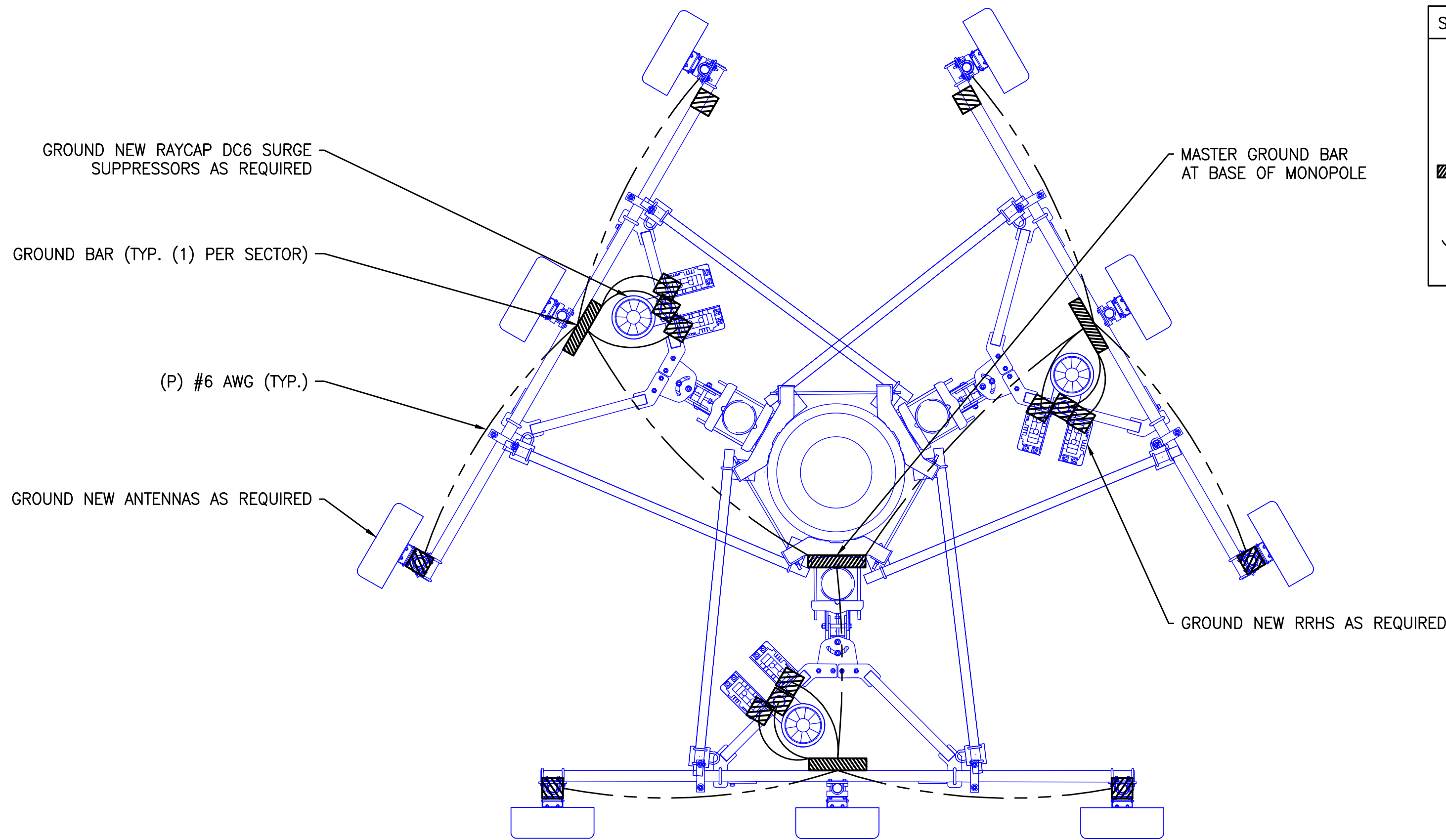
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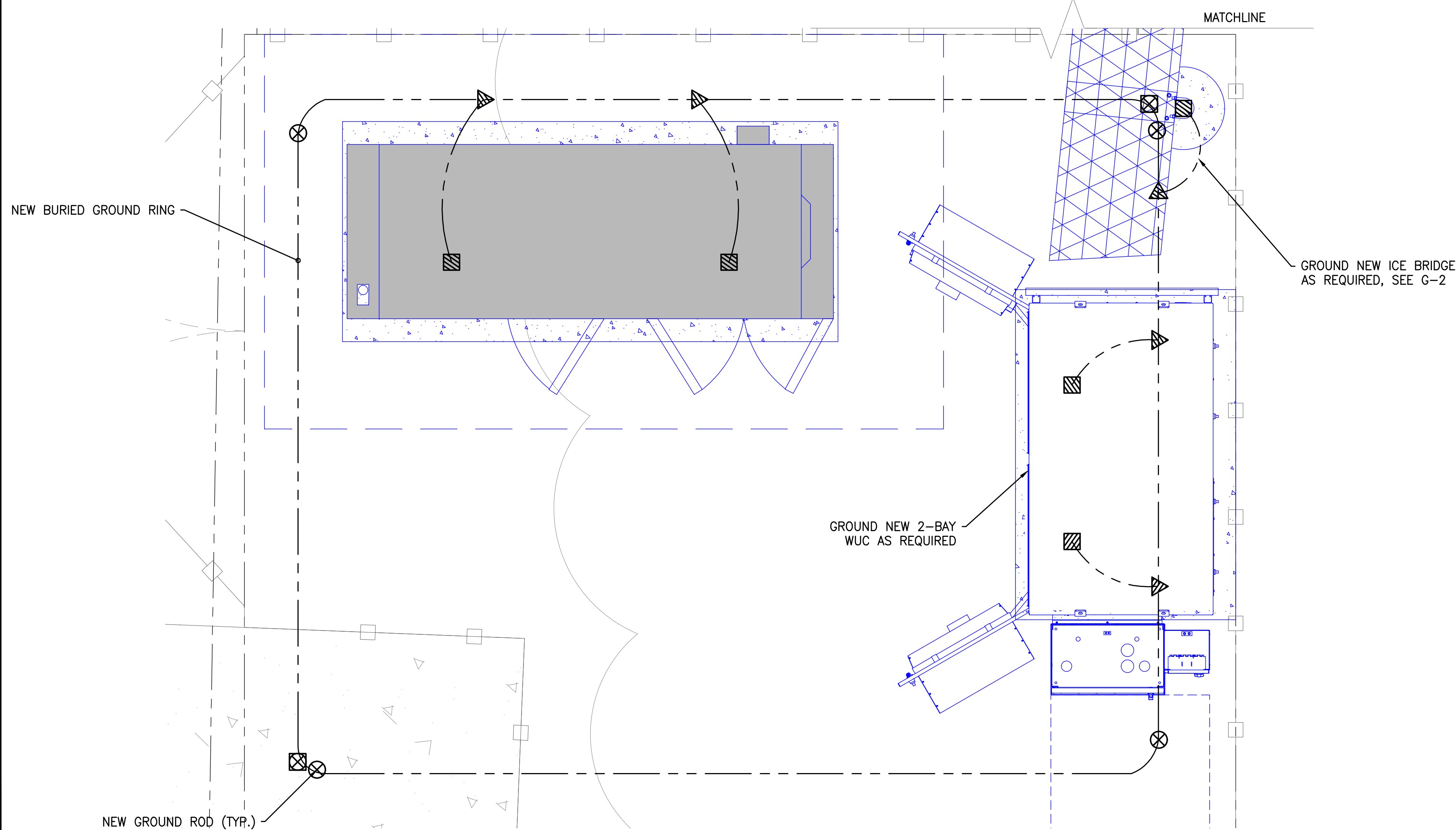
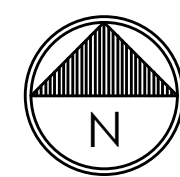
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SHEET TITLE:
ELECTRICAL DC &
FIBER CABLE DIAGRAM

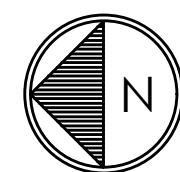
SHEET NUMBER:
E-5



1 ANTENNA GROUNDING PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



1 EQUIPMENT GROUNDING PLAN
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)



SYMBOL	DESCRIPTION
	COPPER GROUND ROD
	TEST WELL
	CADWELD CONNECTION
	GROUND BAR
	MECHANICAL CONNECTION
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM

GENERAL GROUNDING NOTES:

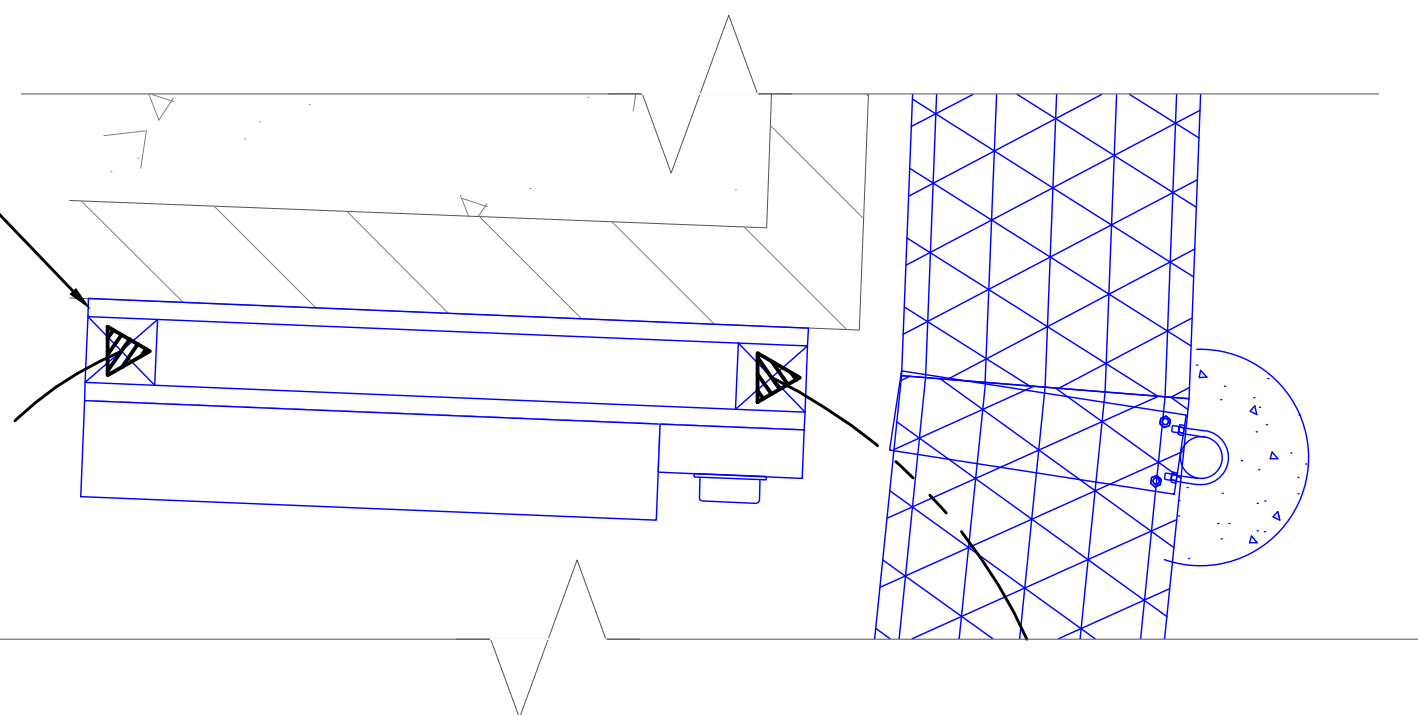
- GROUNDING SHALL BE INSTALLED 6" BELOW FROST DEPTH OR 30" BELOW GRADE, WHICHEVER IS GREATER. CONFIRM FROST DEPTH WITH JURISDICTION.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
- ALL GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY AT&T REPRESENTATIVE.
- ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

GENERAL ROD NOTES (WHERE APPLICABLE):

- ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- 2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFOREMENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

GROUND NEW H-FRAME
AS REQUIRED, SEE G-2

MATCHLINE



SITE TYPE: MONOPOLE/WUC

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7	01/14/25	CLIENT COMMENTS
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9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licenser:

SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027

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SHEET TITLE:
GROUNDING PLAN,
NOTES & DETAILS

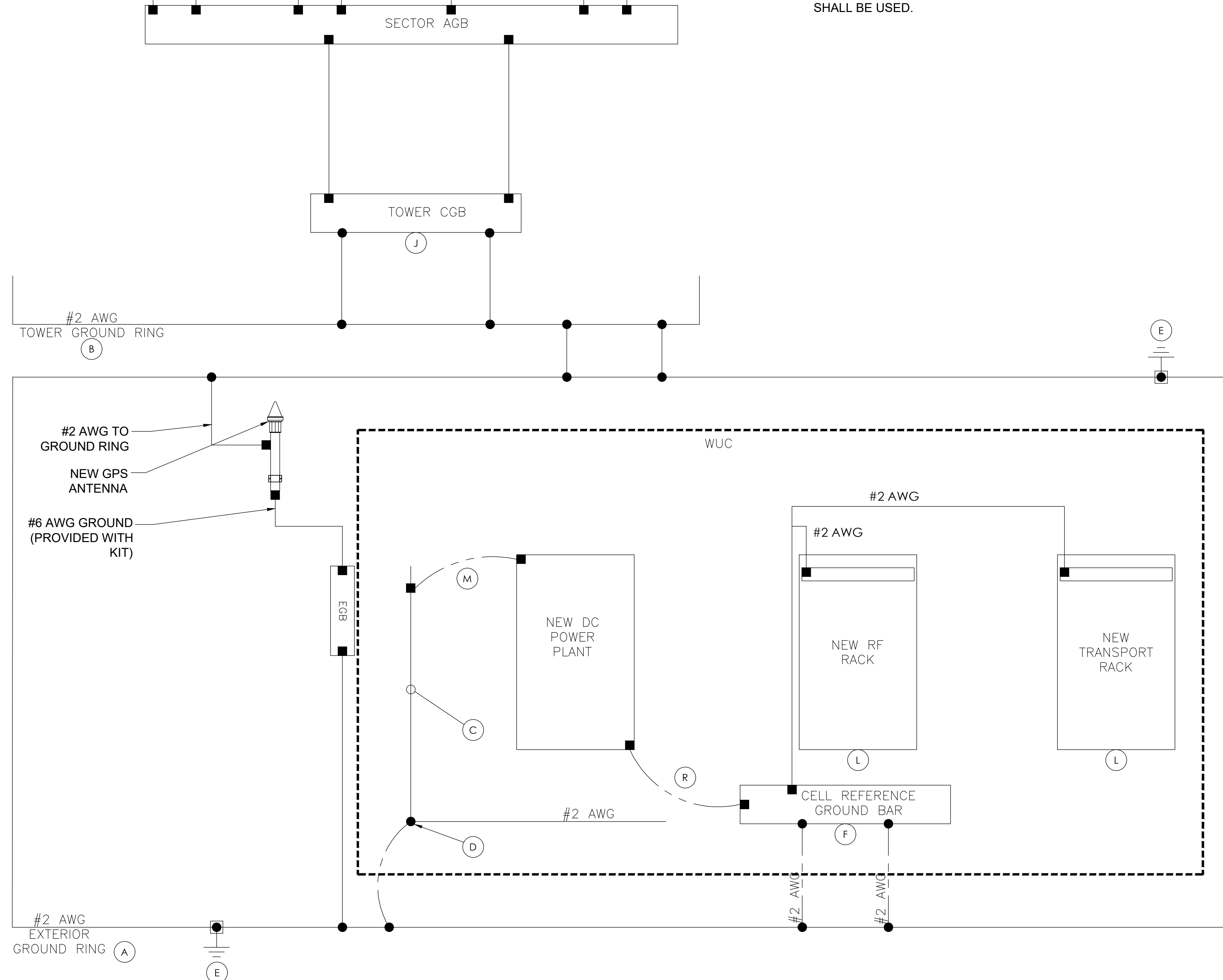
SHEET NUMBER:
G-1

The diagram illustrates the network architecture for a 4G-LTE system. At the bottom, a horizontal bar represents the 'SECTOR AGB'. From this bar, several vertical lines (cables) extend upwards. On the left, two cables are labeled '#6 AWG'. In the center, two cables are labeled '#6 AWG', and a single cable labeled '#2 AWG' connects to a 'SPD' (Surge Protection Device) symbol. To the right of the SPD, three cables are labeled '#6 AWG'. At the top of the diagram, there are four antenna assemblies labeled 'ANT. 1', 'ANT. 2', 'ANT. 3', and 'ANT. 4'. Each antenna assembly consists of a vertical rectangular antenna unit and two smaller 'RRHs' (Remote Radio Heads) connected to it by short cables. The cables from the antennas and RRHs connect to the corresponding cables from the 'SECTOR AGB'.

● EXOTHERMIC CONNECTION ||| ● GROUND ROD
 ■ MECHANICAL CONNECTION ||| ■ TEST GROUND ROD WITH INSPECTION SLEEVE

NOTES

1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND AT&T GROUNDING AND BONDING REQUIREMENTS (ATT-TP-76416) AND MANUFACTURER'S SPECIFICATIONS.
3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.



(A)

(B)

©

(D)

⑤

(F)

G

(H)

1

○

(M)

(Q)

®

—

Tower Owner:



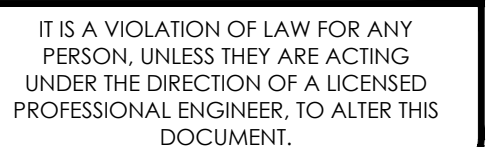
BU NO: 824322

DRAWN BY: NP

CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/23/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
3	12/08/22	JDX COMMENTS
4	01/16/23	CLIENT COMMENTS
5	05/18/24	CLIENT COMMENTS
6	08/19/24	CLIENT COMMENTS
7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licensors:



Issued For:

PRELIMINARY CD'S

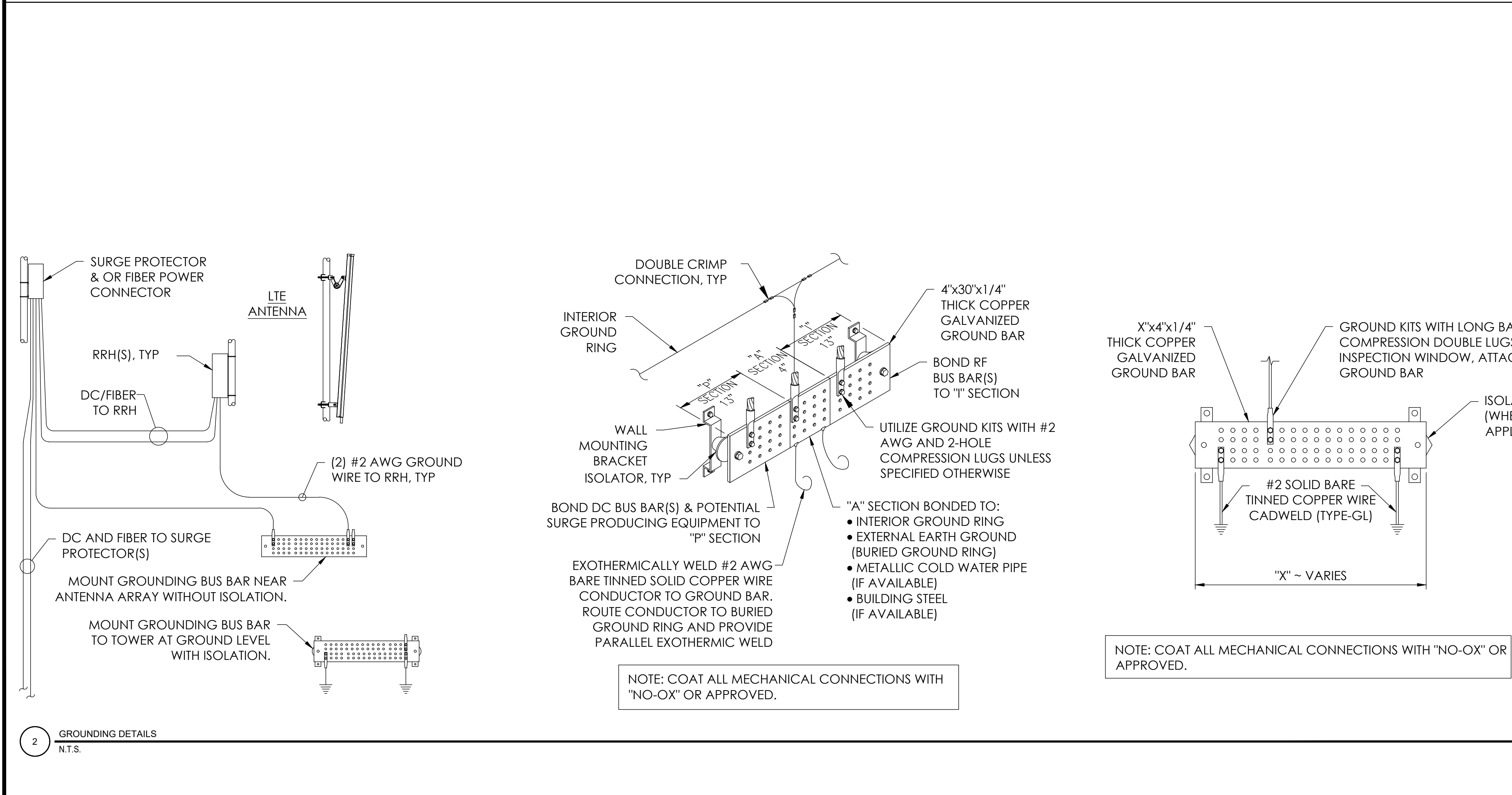
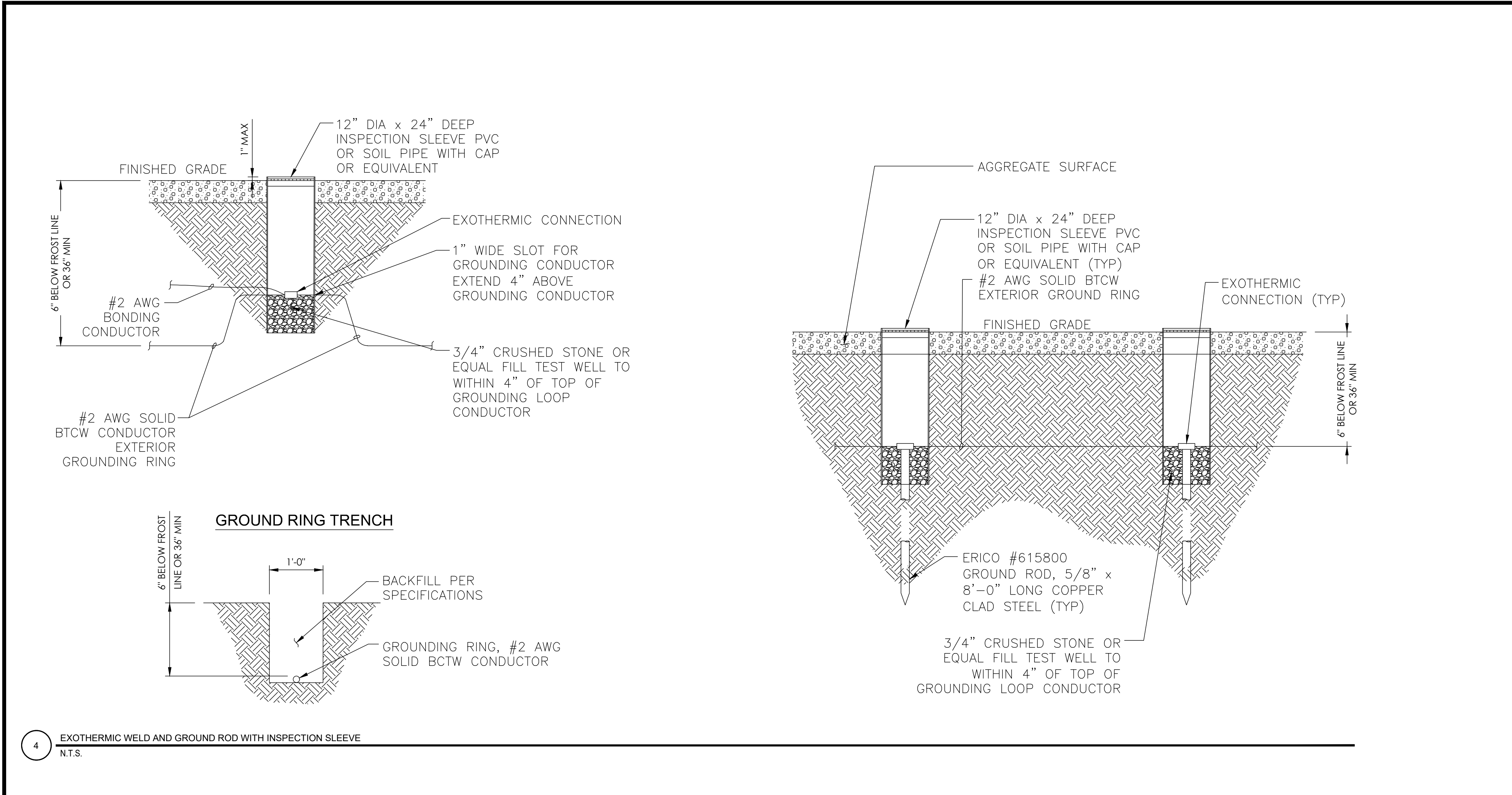
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GROUNDING DETAILS

SHEET NUMBER:

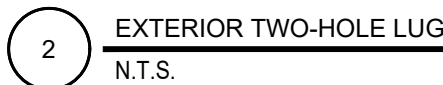
G-2

TYPICAL GROUNDING SCHEMATIC





6 NOT USED
N.T.S.

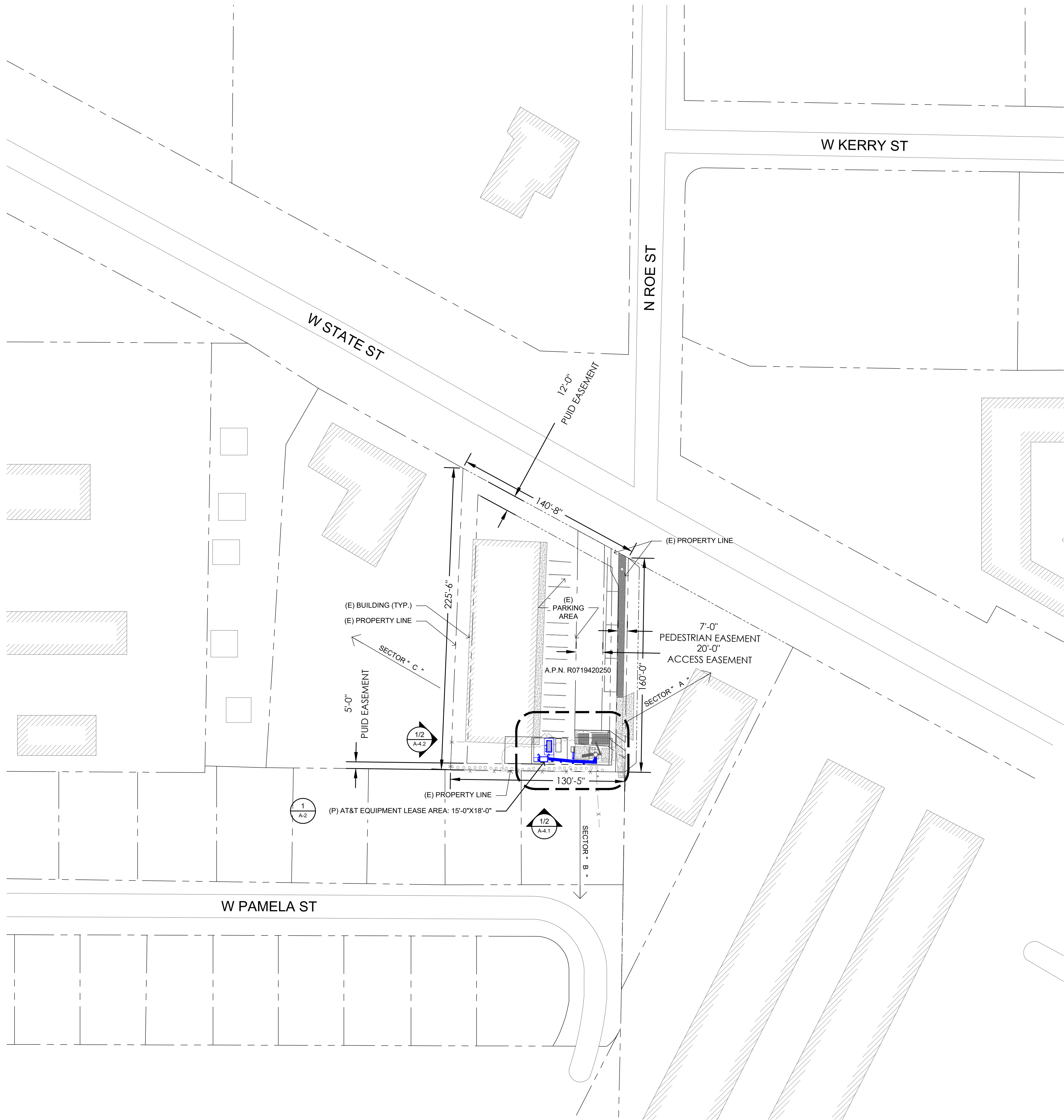


3 NOT USED
N.T.S.

G-4

NOTE

THERE IS NO LANDSCAPING ON SITE AT THIS TIME.



1 OVERALL SITE PLAN
SCALE: 1"=40'-0" (FULL SIZE)
1"=80'-0" (11x17)



SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDL02365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
3	12/08/22	JDX COMMENTS
4	01/16/23	CLIENT COMMENTS
5	07/18/24	CLIENT COMMENTS
6	08/19/24	CLIENT COMMENTS
7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/06/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licenser:

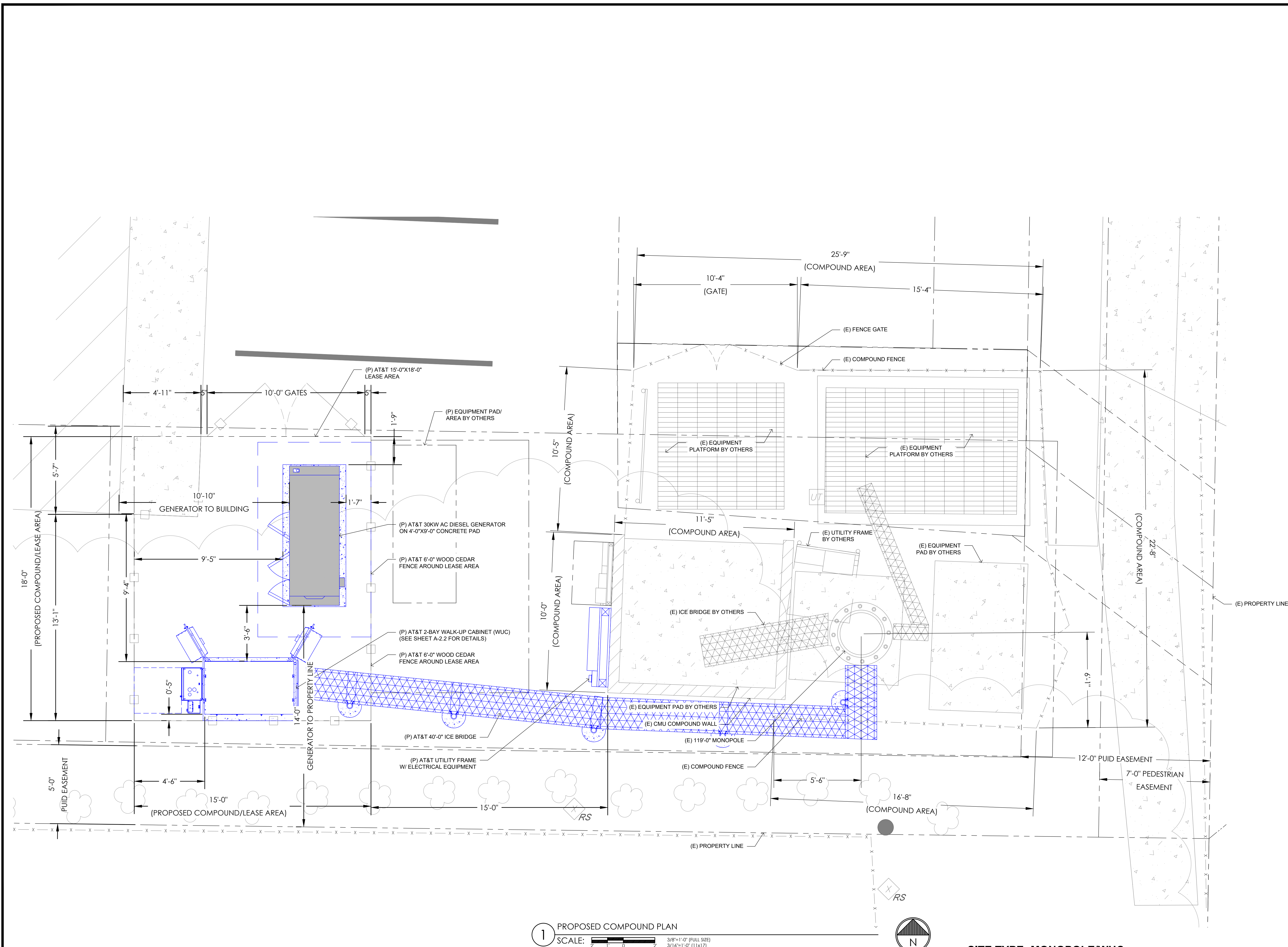
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PRELIMINARY CD'S

SHEET TITLE:
OVERALL SITE
PLAN

SHEET NUMBER:
A-1



1 PROPOSED COMPOUND PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



SITE TYPE: MONOPOLE/WUC

AT&T Site ID:
IDL02365
8247 W STATE STREET
BOISE, ID 83714

Tower Owner:
CROWN CASTLE
2055 SOUTH STEARMAN DRIVE
CHANDLER, AZ 85286

PREPARED FOR:
at&t
Mobility
7670 S. CHESTER ST.
CENTENNIAL, CO 80112

A&E:
TELCYTE
INFRASTRUCTURE SERVICES
3450 N HIGLEY RD - SUITE 102,
MESA, AZ 85215

AT&T SITE NO: IDL02365
BU NO: 824322
DRAWN BY: NP
CHECKED BY: CM

REV	DATE	DESCRIPTION
A	09/16/21	PRELIMINARY CD'S
B	12/03/21	CLIENT REVISIONS
0	12/24/21	CLIENT REVISIONS
1	01/10/22	CLIENT REVISIONS
2	02/14/22	CLIENT REVISIONS
3	12/08/22	JDX COMMENTS
4	01/16/23	CLIENT COMMENTS
5	07/18/24	CLIENT COMMENTS
6	08/19/24	CLIENT COMMENTS
7	01/14/25	CLIENT COMMENTS
8	02/06/25	CLIENT COMMENTS
9	03/19/25	CLIENT COMMENTS
10	03/19/25	CLIENT COMMENTS

Licenser:
PROFESSIONAL ENGINEER
LICENSED
18283
Jim Alexander
STATE OF IDAHO
TIM ALEXANDER
SIGNED: 19 MAR 2025
EXPIRES: 28 FEB 2027
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Issued For:
3/19/25
PRELIMINARY CD'S

SHEET TITLE:
PROPOSED
COMPOUND PLAN

SHEET NUMBER:
A-2.1

Parcel: **R0719420250**

Year: 2025 ▼

Parcel Status: **Active**

Property Details

Primary Owner: DBII LLC

Address: 8247 W STATE ST GARDEN CITY, ID 837140000

Instrument #: 2020069819

Subdivision: AZALEA SUB

Assessor ID: LOT 11 BLK 2 AZALEA SUBDIVISION

Township/Range/Section: 4N1E24

Land Group Type: SUB

Zone Code: C-2

Total Acres: 0.567

Tax Code Area: 06-3



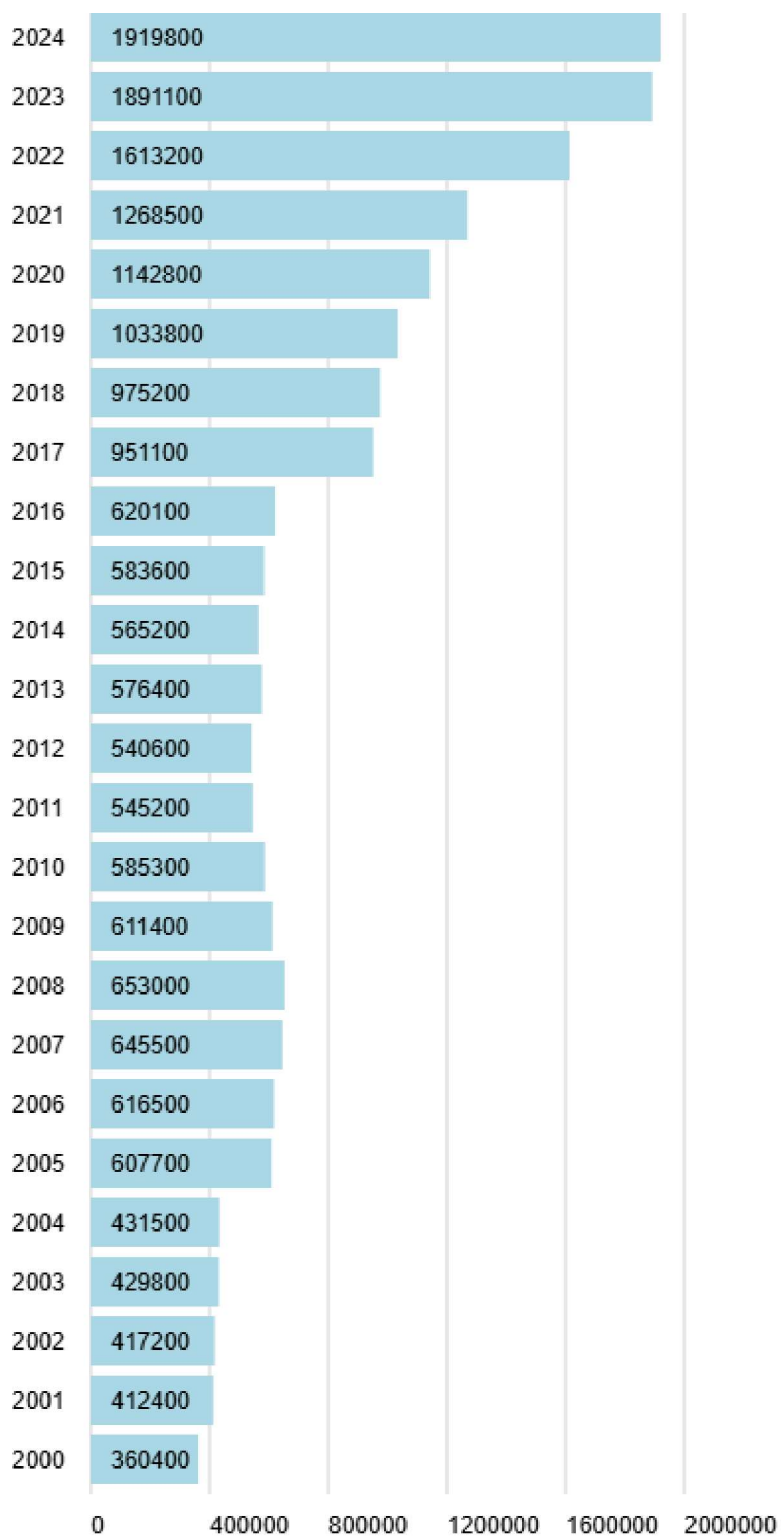


Valuation

Valuation Details

Roll	State Category Code	Acreage	Assessed Value	Valuation Method	Code Area
Property	420	0.000	1210900	INCOME	06-3
Property	401	0.000	162000	COST	06-3
Property	210	0.567	281000	MARKET	06-3
Property	450	0.000	265900	MARKET	06-3

Valuation History by Year



Tax Districts

Tax District	Levy	Description	Phone
1	0.001544150	ADA COUNTY	2082877000
3	0.000084684	EMERGENCY MEDICAL	2082872975

Tax District	Levy	Description	Phone
6	0.000495404	ADA COUNTY HIGHWAY DIST	2083876100
7	0.002796979	SCHOOL DISTRICT NO. 1	2084722607
16	0.001948532	GARDEN CITY	2084722907
19	0.000020371	DRY CREEK CEMETERY	2088531940
26	0.001607290	N ADA CO FIRE & RESCUE	2083750906
43	0.000015041	MOSQUITO ABATEMENT	2085774646
45	0.000068291	FLOOD CONTROL DIST. #10	2088612766
100	0.000085194	COLLEGE OF WESTERN IDAHO	2085623291

Total Levy: 0.008665936

Note: The current year levies are estimated using the previous year, they will be updated when the districts set them in October.

Taxes

Year	Total Taxes	Taxes Paid	Taxes Due	Delinquent	Tax Data Current as of
2024	16641.86	-16641.86	0.00	No	3/21/2025
2023	17317.62	-17317.62	0.00	No	3/21/2025
2022	13683.66	-13683.66	0.00	No	3/21/2025
2021	13739.00	-13739.00	0.00	No	3/21/2025
2020	13480.92	-13480.92	0.00	No	3/21/2025
2019	13942.94	-13942.94	0.00	No	3/21/2025
2018	14049.62	-14049.62	0.00	No	3/21/2025
2017	14163.74	-14163.74	0.00	No	3/21/2025
2016	9543.12	-9543.12	0.00	No	3/21/2025
2015	9189.22	-9189.22	0.00	No	3/21/2025
2014	9045.14	-9045.14	0.00	No	3/21/2025

"Total Taxes" is the full annual property tax charge and may not reflect any certifications, special assessments, adjustments, or fees.

"Taxes Paid" includes payments made by the taxpayer or on their behalf, such as payments by mortgage servicers and the State of Idaho for the Property Tax Reduction Program (circuit breaker), Veteran's Property Tax Reduction Program, and the Homeowner's Tax Relief credit.

"Taxes Due" includes all taxes owing for the first and second half installments. If the first half is paid timely, the second half is due by June 20.

Please refer to your tax bill or contact the Treasurer's Office for information about taxes due and due dates. You can find your most recent tax bill and contact information for the Treasurer's Office at adacounty.id.gov/treasurer (<https://adacounty.id.gov/treasurer/>).

*Interest accrues daily on delinquencies. Please call the Ada County Treasurer's Office at (208) 287-6800 (tel:2082876800) for the total amount due with interest calculated to date of payment.

For Tax inquires please contact the [Treasurer \(https://adacounty.id.gov/treasurer/\)](https://adacounty.id.gov/treasurer/) at (208) 287-6800 (tel:2082876800).

Characteristics

Land

Characteristic	Value
Residential Acres	0.000
Commercial Acres	0.567
Other Acres	0.000
Street	None
Sidewalks	No
Curb-gutters	No
Corner	No

Commercial

Characteristic	Value
Commercial Group Type	CELL TOWERS (UPDATE LAND YEARLY)
Year Built	2005
Year Remodel	N/A
Business Name	Mono Pole 120'
Number of Floors	1
Number of Units	0

Characteristic	Value
Leasable Sq Ft	0
Ground Floor Sq Ft	1
Total Square Feet	1
Total Land Acres	0.000
Method	COST

Sketch



Ada County appraisers follow American National Standards Institute (ANSI) building measurement standards for square footage calculations. This information is to be used ONLY for reference purposes and Ada County is not responsible for any inaccuracies. If you have questions concerning the accuracy, please use the Help option in the Menu at the top of this screen.

Date: **June 11, 2024**



Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: IDL02365
Site Name: NW Boise City
FA Number: 15201834

Crown Castle Designation: **BU Number:** 824322
Site Name: GrdnCity_Roe
JDE Job Number: 2110929
Work Order Number: 2294676
Order Number: 665802 Rev. 2

Engineering Firm Designation: **Morrison Hershfield Project Number:** CN5-036R8 / 2400001

Site Data: **8247 W State Street, Garden City, Ada County, ID 83714**
Latitude 43° 40' 22.63", Longitude -116° 17' 21.27"
118 Foot – EEI Monopole Tower

Morrison Hershfield is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

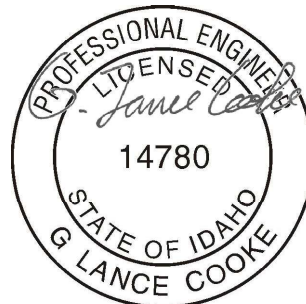
LC5: Proposed Equipment Configuration

Sufficient Capacity

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 102 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, C.E. (ID License No. P-14780)
Senior Engineer



EXP 6/30/25

Digitally signed by G.
Lance Cooke
Date: 2024.06.11
18:56:06+05'30'

TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

Table 2 - Other Considered Equipment

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Table 5 – Tower Component Stresses vs. Capacity – LC5

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 118 ft Monopole tower designed by Engineered Endeavors, Inc

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-H
Risk Category: II
Wind Speed: 102 mph
Exposure Category: C
Topographic Factor: 1
Service Wind Speed: 60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
80.0	82.0	3	ericsson	AIR 6419 B77G	5 2	7/8 3/8
	80.0	6	commscope	NNH4-65C-R6-V3 w/ Mount Pipe		
		3	ericsson	4490 B5/B12		
		3	ericsson	4890 B25/B66		
		3	ericsson	RADIO 4478 B14		
		2	raycap	DC9-48-60-24-PC16-EV		
		3	Commscope	12.5' Sector Mount [# MCG23HDXL-12M12126]		
	78.0	3	ericsson	AIR 6419 B77D w/ Mount Pipe		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
120.0	120.0	4	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	5 2 1	1-5/8 1-3/8 3/4
		4	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		4	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		4	ericsson	RRUS 4415 B25_CCIV2		
		4	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		1	-	T-Arm Mount [TA 601-1]		
		1	-	T-Arm Mount [TA 601-3]		
107.0	107.0	3	rfs celwave	APXVBBLL20X_43-C-I20 w/ Mount Pipe	3	1-9/16
		3	samsung telecommunications	RFD01F-26A		
		3	samsung telecommunications	RRH-P4		
		1	tower mounts	T-Arm Mount [TA 702-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
97.0	97.0	2	raycap	RHSDC-3315-PF-48	2	1-5/8
96.0	97.0	3	ericsson	RADIO 4449 B13/B5	1	1-7/8
		3	ericsson	RADIO 8843 B2/B66A_CCIV2		
	96.0	1	-	Platform Mount [LP 602-1]		
	94.0	3	commscope	NHH-65C-R2B w/ Mount Pipe		
		3	commscope	NHHSS-65B-R2B w/ Mount Pipe		
		3	ericsson	AIR 6449 w/ Mount Pipe		
		3	ericsson	RADIO 4408		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	3489772	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	3489771	CCISITES
4-TOWER MANUFACTURER DRAWINGS	3489773	CCISITES

3.1) Analysis Method

tnxTower (version 8.2.4.3), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P _{allow} (K)	% Capacity	Pass / Fail
L1	118 - 77.04	Pole	TP27.2x18x0.1875	1	-11.26	955.27	47.6	Pass
L2	77.04 - 48.17	Pole	TP33.18x25.9445x0.1875	2	-19.99	1168.39	87.2	Pass
L3	48.17 - 0	Pole	TP43.5x31.7745x0.25	3	-29.16	2108.03	80.9	Pass
							Summary	
						Pole (L2)	87.2	Pass
						Rating =	87.2	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	65.9	Pass
1	Base Plate		67.8	Pass
1	Base Foundation (Structure)	0	42.1	Pass
1	Base Foundation (Soil Interaction)		32.5	Pass

Structure Rating (max from all components) =	87.2%*
---	---------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) *Rating per TIA-222-H, Section 15.5.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

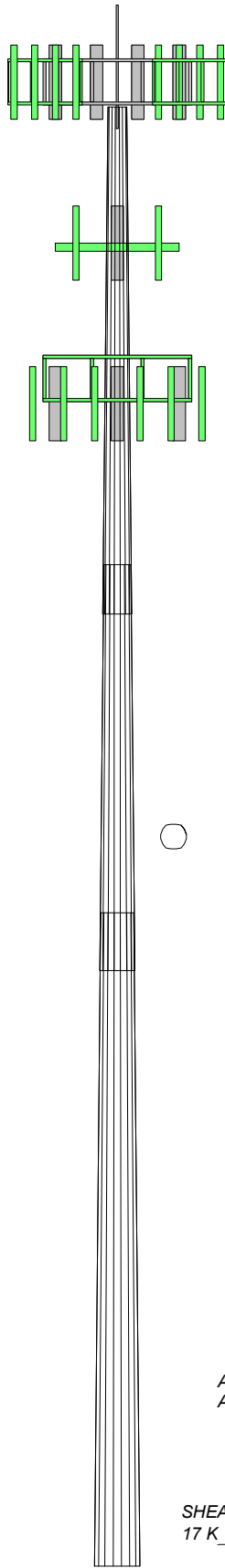
Section	1	2	3
Length (ft)	40.96	32.79	52.84
Number of Sides	18	18	18
Thickness (in)	0.1875	0.1875	0.2500
Socket Length (ft)	3.92	4.67	
Top Dia (in)	18.0000	25.9445	31.7745
Bot Dia (in)	27.2000	33.1800	43.5000
Grade		A572-65	
Weight (K)	1.9	2.0	5.3

118.0 ft

77.0 ft

48.2 ft

0.0 ft



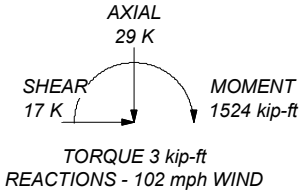
MATERIAL STRENGTH


GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES


1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 102 mph basic wind in accordance with the TIA-222-H Standard.
3. Deflections are based upon a 60 mph wind.
4. Tower Risk Category II.
5. Topographic Category 1 with Crest Height of 0.00 ft
6. TOWER RATING: 87.2%

ALL REACTIONS
ARE FACTORED





Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
Phone: (770) 379-8500
FAX: (770) 379-8501



Consulting Engineers

Job: CN5-036R8 / 2400001		
Project: 824322 / GrdnCity_Roe		
Client: Crown Castle USA	Drawn by: PKD	App'd:
Code: TIA-222-H	Date: 06/11/24	Scale: NTS
Path: C:\Users\PKumar\Desktop\PKD\CN5-036R8 SA\Analysis\CN5-036R8_BU_824322_WO_2294676.ed		Dwg No. E-1

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower base elevation above sea level: 2605.00 ft.

Basic wind speed of 102 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$.

Maximum demand-capacity ratio is: 1.05.

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

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	118.00-77.04	40.96	3.92	18	18.0000	27.2000	0.1875	0.7500	A572-65 (65 ksi)
L2	77.04-48.17	32.79	4.67	18	25.9445	33.1800	0.1875	0.7500	A572-65 (65 ksi)
L3	48.17-0.00	52.84		18	31.7745	43.5000	0.2500	1.0000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	18.2488	10.6007	424.9328	6.3234	9.1440	46.4712	850.4248	5.3013	2.8380	15.136
	27.5907	16.0758	1481.9720	9.5894	13.8176	107.2525	2965.8939	8.0394	4.4572	23.772
L2	27.1942	15.3287	1284.7927	9.1437	13.1798	97.4818	2571.2760	7.6658	4.2362	22.593

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L3	33.6629	19.6347	2700.1713	11.7123	16.8554	160.1958	5403.8956	9.8192	5.5097	29.385
	33.2784	25.0147	3140.7226	11.1912	16.1415	194.5750	6285.5778	12.5097	5.1523	20.609
	44.1325	34.3189	8110.4083	15.3537	22.0980	367.0200	16231.488	17.1627	7.2160	28.864
4										

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1 118.00- 77.04				1	1	1			
L2 77.04- 48.17				1	1	1			
L3 48.17-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	C	No	Surface Ar (CaAa)	118.00 - 12.00	1	1	0.000 0.000	0.3750		0.22
Climbing Pegs	C	No	Surface Ar (CaAa)	118.00 - 12.00	1	1	-0.050 0.050	0.7050		1.80
** TYPE 3(1-9/16)	A	No	Surface Ar (CaAa)	107.00 - 8.00	3	3	0.000 0.150	1.5700		0.80
**										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		CAAA ft ² /ft	Weight plf
** HCS 6X12 4AWG(1-5/8)	A	No	No	Inside Pole	118.00 - 8.00	4	No Ice	0.00	2.40
MLE HYBRID 9POWER/18FIBE R RL 2(1-5/8)	A	No	No	Inside Pole	118.00 - 8.00	1	No Ice	0.00	1.07
HCS 6X12 6AWG(1-3/8)	A	No	No	Inside Pole	118.00 - 8.00	2	No Ice	0.00	1.70
WR-VG86ST- BRD(3/4)	A	No	No	Inside Pole	118.00 - 8.00	1	No Ice	0.00	0.58
** HB158-1-08U8- S8J18(1-5/8)	B	No	No	Inside Pole	97.00 - 8.00	2	No Ice	0.00	1.30
** 85096867_CCIV2(1-7/8)	B	No	No	Inside Pole	96.00 - 0.00	1	No Ice	0.00	3.20
** PWRT-606-S(7/8)	B	No	No	Inside Pole	80.00 - 0.00	5	No Ice	0.00	0.89
RFFT-48SM-001- XXX(3/8)	B	No	No	Inside Pole	80.00 - 0.00	2	No Ice	0.00	0.06
** **									

Feed Line/Linear Appurtenances Section Areas

Tower Section <i>n</i>	Tower Elevation <i>ft</i>	Face	A_R <i>ft²</i>	A_F <i>ft²</i>	$C_A A_A$ In Face <i>ft²</i>	$C_A A_A$ Out Face <i>ft²</i>	Weight <i>K</i>
L1	118.00-77.04	A	0.000	0.000	14.111	0.000	0.67
		B	0.000	0.000	0.000	0.000	0.13
		C	0.000	0.000	4.424	0.000	0.08
L2	77.04-48.17	A	0.000	0.000	13.598	0.000	0.49
		B	0.000	0.000	0.000	0.000	0.30
		C	0.000	0.000	3.118	0.000	0.06
L3	48.17-0.00	A	0.000	0.000	18.920	0.000	0.69
		B	0.000	0.000	0.000	0.000	0.48
		C	0.000	0.000	3.906	0.000	0.07

Feed Line Center of Pressure

Section	Elevation <i>ft</i>	CP_x <i>in</i>	CP_z <i>in</i>	CP_x Ice <i>in</i>	CP_z Ice <i>in</i>
L1	118.00-77.04	-1.8415	-0.8132	-1.2392	-0.5472
L2	77.04-48.17	-2.3773	-1.2454	-1.5950	-0.8356
L3	48.17-0.00	-2.0957	-1.1607	-1.3644	-0.7557

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor K_a

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	1	Safety Line 3/8	77.04 - 118.00	1.0000	1.0000
L1	2	Climbing Pegs	77.04 - 118.00	1.0000	1.0000
L1	9	TYPE 3(1-9/16)	77.04 - 107.00	1.0000	1.0000
L2	1	Safety Line 3/8	48.17 - 77.04	1.0000	1.0000
L2	2	Climbing Pegs	48.17 - 77.04	1.0000	1.0000
L2	9	TYPE 3(1-9/16)	48.17 - 77.04	1.0000	1.0000
L3	1	Safety Line 3/8	12.00 - 48.17	1.0000	1.0000
L3	2	Climbing Pegs	12.00 - 48.17	1.0000	1.0000
L3	9	TYPE 3(1-9/16)	8.00 - 48.17	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft²	C _A A _A Side ft²	Weight K

Lightning Rod 3/4" x 7'	A	From Leg	0.00 0.00 3.25	0.0000	118.00	No Ice	0.53	0.53	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K

AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	3.76	3.15	0.19
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	3.76	3.15	0.19
(2) AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	3.76	3.15	0.19
APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	14.69	6.87	0.18
APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	14.69	6.87	0.18
(2) APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	14.69	6.87	0.18
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	5.19	2.71	0.13
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	5.19	2.71	0.13
(2) AIR6449 B41_T- MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	5.19	2.71	0.13
RADIO 4449 B71 B85A_T- MOBILE	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.97	1.59	0.07
RADIO 4449 B71 B85A_T- MOBILE	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.97	1.59	0.07
(2) RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.97	1.59	0.07
RRUS 4415 B25_CCIV2	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.84	0.82	0.05
RRUS 4415 B25_CCIV2	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.84	0.82	0.05
(2) RRUS 4415 B25_CCIV2	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.84	0.82	0.05
T-Arm Mount [TA 601-3]	C	None		0.0000	120.00	No Ice	12.56	12.56	0.73
T-Arm Mount [TA 601-1]	C	From Leg	2.00 0.00 0.00	0.0000	120.00	No Ice	7.97	2.50	0.24
6' x 2" Horizontal Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.14	0.01	0.02
6' x 2" Horizontal Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.14	0.01	0.02
(2) 6' x 2" Horizontal Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.14	0.01	0.02
4' x 2" Horizontal Face Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	0.87	0.01	0.01
4' x 2" Horizontal Face Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	0.87	0.01	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
(2) 4' x 2" Horizontal Face Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	0.87	0.01	0.01
**									
APXVBLL20X_43-C-I20 w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	9.99	5.59	0.12
APXVBLL20X_43-C-I20 w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	9.99	5.59	0.12
APXVBLL20X_43-C-I20 w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	9.99	5.59	0.12
RFD01F-26A	A	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.32	0.81	0.05
RFD01F-26A	B	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.32	0.81	0.05
RFD01F-26A	C	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.32	0.81	0.05
RRH-P4	A	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	2.74	1.79	0.06
RRH-P4	B	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	2.74	1.79	0.06
RRH-P4	C	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	2.74	1.79	0.06
6' x 2" Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.43	1.43	0.02
6' x 2" Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.43	1.43	0.02
6' x 2" Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	107.00	No Ice	1.43	1.43	0.02
T-Arm Mount [TA 702-3] **	A	None		0.0000	107.00	No Ice	4.75	4.75	0.34
RHSDC-3315-PF-48	B	From Leg	4.00 0.00 0.00	0.0000	97.00	No Ice	3.71	2.19	0.03
RHSDC-3315-PF-48	C	From Leg	4.00 0.00 0.00	0.0000	97.00	No Ice	3.71	2.19	0.03
**									
NHHSS-65B-R2B w/ Mount Pipe	A	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	3.89	3.14	0.09
NHHSS-65B-R2B w/ Mount Pipe	B	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	3.89	3.14	0.09
NHHSS-65B-R2B w/ Mount Pipe	C	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	3.89	3.14	0.09
NHH-65C-R2B w/ Mount Pipe	A	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.56	4.47	0.08
NHH-65C-R2B w/ Mount Pipe	B	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.56	4.47	0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
NHH-65C-R2B w/ Mount Pipe	C	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.56	4.47	0.08
AIR 6449 w/ Mount Pipe	A	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.18	2.72	0.12
AIR 6449 w/ Mount Pipe	B	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.18	2.72	0.12
AIR 6449 w/ Mount Pipe	C	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	5.18	2.72	0.12
RADIO 4449 B13/B5	A	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.71	0.08
RADIO 4449 B13/B5	B	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.71	0.08
RADIO 4449 B13/B5	C	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.71	0.08
RADIO 4408	A	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	0.60	0.33	0.01
RADIO 4408	B	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	0.60	0.33	0.01
RADIO 4408	C	From Leg	4.00 0.00 -2.00	0.0000	96.00	No Ice	0.60	0.33	0.01
RADIO 8843 B2/B66A_CCIV2	A	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.70	0.08
RADIO 8843 B2/B66A_CCIV2	B	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.70	0.08
RADIO 8843 B2/B66A_CCIV2	C	From Leg	4.00 0.00 1.00	0.0000	96.00	No Ice	1.98	1.70	0.08
8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	96.00	No Ice	1.90	1.90	0.03
8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	96.00	No Ice	1.90	1.90	0.03
8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	96.00	No Ice	1.90	1.90	0.03
3' x 2" Pipe Mount	C	From Leg	1.00 0.00 0.00	0.0000	96.00	No Ice	0.58	0.58	0.01
Platform Mount [LP 602-1] **	C	None		0.0000	96.00	No Ice	31.07	31.07	1.34
(2) NNH4-65C-R6-V3 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	9.68	5.17	0.16
(2) NNH4-65C-R6-V3 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	9.68	5.17	0.16
(2) NNH4-65C-R6-V3 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	9.68	5.17	0.16
AIR 6419 B77D w/ Mount Pipe	A	From Leg	4.00 0.00 -2.00	0.0000	80.00	No Ice	3.43	1.95	0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
AIR 6419 B77D w/ Mount Pipe	B	From Leg	4.00 0.00 -2.00	0.0000	80.00	No Ice	3.43	1.95	0.08
AIR 6419 B77D w/ Mount Pipe	C	From Leg	4.00 0.00 -2.00	0.0000	80.00	No Ice	3.43	1.95	0.08
AIR 6419 B77G	A	From Leg	4.00 0.00 2.00	0.0000	80.00	No Ice	4.64	1.87	0.07
AIR 6419 B77G	B	From Leg	4.00 0.00 2.00	0.0000	80.00	No Ice	4.64	1.87	0.07
AIR 6419 B77G	C	From Leg	4.00 0.00 2.00	0.0000	80.00	No Ice	4.64	1.87	0.07
4490 B5/B12	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.20	0.85	0.02
4490 B5/B12	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.20	0.85	0.02
4490 B5/B12	C	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.20	0.85	0.02
4890 B25/B66	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.70	1.22	0.07
4890 B25/B66	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.70	1.22	0.07
4890 B25/B66	C	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.70	1.22	0.07
RADIO 4478 B14	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.02	1.25	0.06
RADIO 4478 B14	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.02	1.25	0.06
RADIO 4478 B14	C	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.02	1.25	0.06
DC9-48-60-24-PC16-EV	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.26	1.12	0.03
DC9-48-60-24-PC16-EV	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.26	1.12	0.03
(2) 8' x 2" Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	80.00	No Ice	1.90	1.90	0.03
(2) 8' x 2" Mount Pipe	B	From Leg	2.00 0.00 0.00	0.0000	80.00	No Ice	1.90	1.90	0.03
(2) 8' x 2" Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	80.00	No Ice	1.90	1.90	0.03
10'6"x2-3/8" Pipe Mount	A	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.49	2.49	0.04
10'6"x2-3/8" Pipe Mount	B	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.49	2.49	0.04
10'6"x2-3/8" Pipe Mount	C	From Leg	4.00 0.00 0.00	0.0000	80.00	No Ice	2.49	2.49	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
12.5' Sector Mount [# MCG23HDXL-12M12126]	A	From Leg	0.00 2.00 0.00 0.00	0.0000	80.00	No Ice	25.38	21.09	0.80
12.5' Sector Mount [# MCG23HDXL-12M12126]	B	From Leg	2.00 0.00 0.00	0.0000	80.00	No Ice	25.38	21.09	0.80
12.5' Sector Mount [# MCG23HDXL-12M12126]	C	From Leg	2.00 0.00 0.00	0.0000	80.00	No Ice	25.38	21.09	0.80
** **									

Load Combinations

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

Maximum Member Forces

Sectio n No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	118 - 77.04	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	24	-11.38	122.90	202.43
			Max. Mx	20	-11.29	261.45	-13.98
			Max. My	14	-11.35	15.59	-245.88
			Max. Vy	20	-9.65	261.45	-13.98
			Max. Vx	14	9.25	15.59	-245.88
			Max. Torque	12			-3.10
L2	77.04 - 48.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	24	-20.08	317.25	537.39
			Max. Mx	20	-20.01	664.14	-22.38
			Max. My	14	-20.06	24.08	-637.59
			Max. Vy	20	-14.96	664.14	-22.38
			Max. Vx	14	14.58	24.08	-637.59
			Max. Torque	12			-2.96
L3	48.17 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	24	-29.16	725.26	1241.19
			Max. Mx	20	-29.16	1504.89	-37.02
			Max. My	14	-29.16	38.90	-1458.92
			Max. Vy	20	-16.73	1504.89	-37.02
			Max. Vx	14	16.38	38.90	-1458.92
			Max. Torque	12			-2.96

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	20	29.18	16.70	-0.26
	Max. H _x	20	29.18	16.70	-0.26
	Max. H _z	2	29.18	-0.26	16.35
	Max. M _x	2	1453.32	-0.26	16.35
	Max. M _z	8	1495.55	-16.70	0.26
	Max. Torsion	24	2.95	8.12	14.03
	Min. Vert	25	21.89	8.12	14.03
	Min. H _x	8	29.18	-16.70	0.26
	Min. H _z	15	21.89	0.26	-16.35
	Min. M _x	14	-1458.92	0.26	-16.35
	Min. M _z	20	-1504.89	16.70	-0.26
	Min. Torsion	12	-2.95	-8.12	-14.03

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	24.32	-0.00	0.00	2.28	3.81	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	29.18	0.26	-16.35	-1453.32	-29.57	-2.38
0.9 Dead+1.0 Wind 0 deg - No Ice	21.89	0.26	-16.35	-1429.27	-30.14	-2.29
1.2 Dead+1.0 Wind 30 deg - No Ice	29.18	8.57	-14.29	-1275.21	-775.10	-1.21
0.9 Dead+1.0 Wind 30 deg - No Ice	21.89	8.57	-14.29	-1254.13	-762.90	-1.15
1.2 Dead+1.0 Wind 60 deg - No Ice	29.18	14.59	-8.40	-754.78	-1311.61	0.27

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 60 deg - No Ice	21.89	14.59	-8.40	-742.53	-1290.26	0.27
1.2 Dead+1.0 Wind 90 deg - No Ice	29.18	16.70	-0.26	-31.44	-1495.55	1.67
0.9 Dead+1.0 Wind 90 deg - No Ice	21.89	16.70	-0.26	-31.49	-1471.11	1.61
1.2 Dead+1.0 Wind 120 deg - No Ice	29.18	14.33	7.95	701.19	-1277.60	2.65
0.9 Dead+1.0 Wind 120 deg - No Ice	21.89	14.33	7.95	688.64	-1256.95	2.55
1.2 Dead+1.0 Wind 150 deg - No Ice	29.18	8.12	14.03	1246.78	-715.94	2.95
0.9 Dead+1.0 Wind 150 deg - No Ice	21.89	8.12	14.03	1224.86	-704.96	2.83
1.2 Dead+1.0 Wind 180 deg - No Ice	29.18	-0.26	16.35	1458.92	38.89	2.45
0.9 Dead+1.0 Wind 180 deg - No Ice	21.89	-0.26	16.35	1433.32	36.90	2.35
1.2 Dead+1.0 Wind 210 deg - No Ice	29.18	-8.57	14.29	1280.81	784.43	1.28
0.9 Dead+1.0 Wind 210 deg - No Ice	21.89	-8.57	14.29	1258.19	769.66	1.22
1.2 Dead+1.0 Wind 240 deg - No Ice	29.18	-14.59	8.40	760.37	1320.94	-0.27
0.9 Dead+1.0 Wind 240 deg - No Ice	21.89	-14.59	8.40	746.58	1297.03	-0.27
1.2 Dead+1.0 Wind 270 deg - No Ice	29.18	-16.70	0.26	37.01	1504.89	-1.74
0.9 Dead+1.0 Wind 270 deg - No Ice	21.89	-16.70	0.26	35.53	1477.89	-1.68
1.2 Dead+1.0 Wind 300 deg - No Ice	29.18	-14.33	-7.95	-695.62	1286.93	-2.72
0.9 Dead+1.0 Wind 300 deg - No Ice	21.89	-14.33	-7.95	-684.59	1263.72	-2.62
1.2 Dead+1.0 Wind 330 deg - No Ice	29.18	-8.12	-14.03	-1241.20	725.25	-2.95
0.9 Dead+1.0 Wind 330 deg - No Ice	21.89	-8.12	-14.03	-1220.81	711.72	-2.83
Dead+Wind 0 deg - Service	24.32	0.08	-5.33	-467.42	-7.19	-0.77
Dead+Wind 30 deg - Service	24.32	2.79	-4.66	-410.01	-247.70	-0.39
Dead+Wind 60 deg - Service	24.32	4.75	-2.74	-242.11	-420.82	0.09
Dead+Wind 90 deg - Service	24.32	5.44	-0.08	-8.73	-480.14	0.55
Dead+Wind 120 deg - Service	24.32	4.67	2.59	227.61	-409.81	0.86
Dead+Wind 150 deg - Service	24.32	2.65	4.57	403.58	-228.62	0.95
Dead+Wind 180 deg - Service	24.32	-0.08	5.33	472.02	14.85	0.78
Dead+Wind 210 deg - Service	24.32	-2.79	4.66	414.60	255.36	0.40
Dead+Wind 240 deg - Service	24.32	-4.75	2.74	246.70	428.48	-0.09
Dead+Wind 270 deg - Service	24.32	-5.44	0.08	13.31	487.80	-0.55
Dead+Wind 300 deg - Service	24.32	-4.67	-2.59	-223.03	417.47	-0.87
Dead+Wind 330 deg - Service	24.32	-2.65	-4.57	-398.99	236.28	-0.95

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-24.32	0.00	0.00	24.32	-0.00	0.000%
2	0.26	-29.18	-16.35	-0.26	29.18	16.35	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
3	0.26	-21.89	-16.35	-0.26	21.89	16.35	0.000%
4	8.57	-29.18	-14.29	-8.57	29.18	14.29	0.000%
5	8.57	-21.89	-14.29	-8.57	21.89	14.29	0.000%
6	14.59	-29.18	-8.40	-14.59	29.18	8.40	0.000%
7	14.59	-21.89	-8.40	-14.59	21.89	8.40	0.000%
8	16.70	-29.18	-0.26	-16.70	29.18	0.26	0.000%
9	16.70	-21.89	-0.26	-16.70	21.89	0.26	0.000%
10	14.33	-29.18	7.95	-14.33	29.18	-7.95	0.000%
11	14.33	-21.89	7.95	-14.33	21.89	-7.95	0.000%
12	8.12	-29.18	14.03	-8.12	29.18	-14.03	0.000%
13	8.12	-21.89	14.03	-8.12	21.89	-14.03	0.000%
14	-0.26	-29.18	16.35	0.26	29.18	-16.35	0.000%
15	-0.26	-21.89	16.35	0.26	21.89	-16.35	0.000%
16	-8.57	-29.18	14.29	8.57	29.18	-14.29	0.000%
17	-8.57	-21.89	14.29	8.57	21.89	-14.29	0.000%
18	-14.59	-29.18	8.40	14.59	29.18	-8.40	0.000%
19	-14.59	-21.89	8.40	14.59	21.89	-8.40	0.000%
20	-16.70	-29.18	0.26	16.70	29.18	-0.26	0.000%
21	-16.70	-21.89	0.26	16.70	21.89	-0.26	0.000%
22	-14.33	-29.18	-7.95	14.33	29.18	7.95	0.000%
23	-14.33	-21.89	-7.95	14.33	21.89	7.95	0.000%
24	-8.12	-29.18	-14.03	8.12	29.18	14.03	0.000%
25	-8.12	-21.89	-14.03	8.12	21.89	14.03	0.000%
26	0.08	-24.32	-5.33	-0.08	24.32	5.33	0.000%
27	2.79	-24.32	-4.66	-2.79	24.32	4.66	0.000%
28	4.75	-24.32	-2.74	-4.75	24.32	2.74	0.000%
29	5.44	-24.32	-0.08	-5.44	24.32	0.08	0.000%
30	4.67	-24.32	2.59	-4.67	24.32	-2.59	0.000%
31	2.65	-24.32	4.57	-2.65	24.32	-4.57	0.000%
32	-0.08	-24.32	5.33	0.08	24.32	-5.33	0.000%
33	-2.79	-24.32	4.66	2.79	24.32	-4.66	0.000%
34	-4.75	-24.32	2.74	4.75	24.32	-2.74	0.000%
35	-5.44	-24.32	0.08	5.44	24.32	-0.08	0.000%
36	-4.67	-24.32	-2.59	4.67	24.32	2.59	0.000%
37	-2.65	-24.32	-4.57	2.65	24.32	4.57	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00001729
2	Yes	5	0.00000001	0.00044383
3	Yes	5	0.00000001	0.00020870
4	Yes	6	0.00000001	0.00036592
5	Yes	6	0.00000001	0.00012512
6	Yes	6	0.00000001	0.00038016
7	Yes	6	0.00000001	0.00012977
8	Yes	5	0.00000001	0.00022165
9	Yes	5	0.00000001	0.00010357
10	Yes	6	0.00000001	0.00037837
11	Yes	6	0.00000001	0.00013187
12	Yes	6	0.00000001	0.00030555
13	Yes	6	0.00000001	0.00010555
14	Yes	6	0.00000001	0.00008455
15	Yes	5	0.00000001	0.00048014
16	Yes	6	0.00000001	0.00040856
17	Yes	6	0.00000001	0.00013876
18	Yes	6	0.00000001	0.00040195
19	Yes	6	0.00000001	0.00013592
20	Yes	5	0.00000001	0.00081966
21	Yes	5	0.00000001	0.00038822
22	Yes	6	0.00000001	0.00031094
23	Yes	6	0.00000001	0.00010669
24	Yes	6	0.00000001	0.00037799
25	Yes	6	0.00000001	0.00013178
26	Yes	4	0.00000001	0.00082343
27	Yes	5	0.00000001	0.00014348
28	Yes	5	0.00000001	0.00015392
29	Yes	4	0.00000001	0.00058736
30	Yes	5	0.00000001	0.00018096
31	Yes	5	0.00000001	0.00011803
32	Yes	5	0.00000001	0.00007744
33	Yes	5	0.00000001	0.00018859
34	Yes	5	0.00000001	0.00017901
35	Yes	4	0.00000001	0.00084714
36	Yes	5	0.00000001	0.00011912
37	Yes	5	0.00000001	0.00018360

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	118 - 77.04	27.491	34	2.0480	0.0243
L2	80.96 - 48.17	13.074	34	1.5816	0.0083
L3	52.84 - 0	5.400	34	0.9628	0.0034

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
120.00	AIR 32 B2A/B66AA w/ Mount Pipe	34	27.491	2.0480	0.0243	21482
118.00	Lightning Rod 3/4" x 7'	34	27.491	2.0480	0.0243	21482
107.00	APXVBLL20X_43-C-I20 w/ Mount Pipe	34	22.953	1.9393	0.0189	9764
97.00	RHSDC-3315-PF-48	34	18.953	1.8259	0.0142	5114
96.00	NHHSS-65B-R2B w/ Mount Pipe	34	18.564	1.8133	0.0138	4881
80.00	(2) NNH4-65C-R6-V3 w/ Mount Pipe	34	12.752	1.5636	0.0080	2882

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	118 - 77.04	84.226	18	6.2113	0.0752
L2	80.96 - 48.17	40.250	18	4.8648	0.0259
L3	52.84 - 0	16.648	18	2.9685	0.0107

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
120.00	AIR 32 B2A/B66AA w/ Mount Pipe	18	84.226	6.2113	0.0753	7355
118.00	Lightning Rod 3/4" x 7'	18	84.226	6.2113	0.0753	7355
107.00	APXVBLL20X_43-C-I20 w/ Mount Pipe	18	70.406	5.9093	0.0584	3342
97.00	RHSDC-3315-PF-48	18	58.213	5.5869	0.0441	1748
96.00	NHHSS-65B-R2B w/ Mount Pipe	18	57.026	5.5504	0.0428	1668
80.00	(2) NNH4-65C-R6-V3 w/ Mount Pipe	18	39.262	4.8104	0.0250	979

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	118 - 77.04 (1)	TP27.2x18x0.1875	40.96	0.00	0.0	15.551 8	-11.26	909.78	0.012
L2	77.04 - 48.17 (2)	TP33.18x25.9445x0.1875	32.79	0.00	0.0	19.021 4	-19.99	1112.75	0.018
L3	48.17 - 0 (3)	TP43.5x31.7745x0.25	52.84	0.00	0.0	34.318 9	-29.16	2007.65	0.015

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	118 - 77.04 (1)	TP27.2x18x0.1875	268.55	552.27	0.486	0.00	552.27	0.000
L2	77.04 - 48.17 (2)	TP33.18x25.9445x0.1875	675.65	754.69	0.895	0.00	754.69	0.000
L3	48.17 - 0 (3)	TP43.5x31.7745x0.25	1524.16	1828.22	0.834	0.00	1828.22	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	118 - 77.04 (1)	TP27.2x18x0.1875	9.81	272.94	0.036	0.27	624.61	0.000
L2	77.04 - 48.17 (2)	TP33.18x25.9445x0.1875	15.12	333.82	0.045	0.27	934.40	0.000
L3	48.17 - 0 (3)	TP43.5x31.7745x0.25	16.87	602.30	0.028	0.27	2281.27	0.000

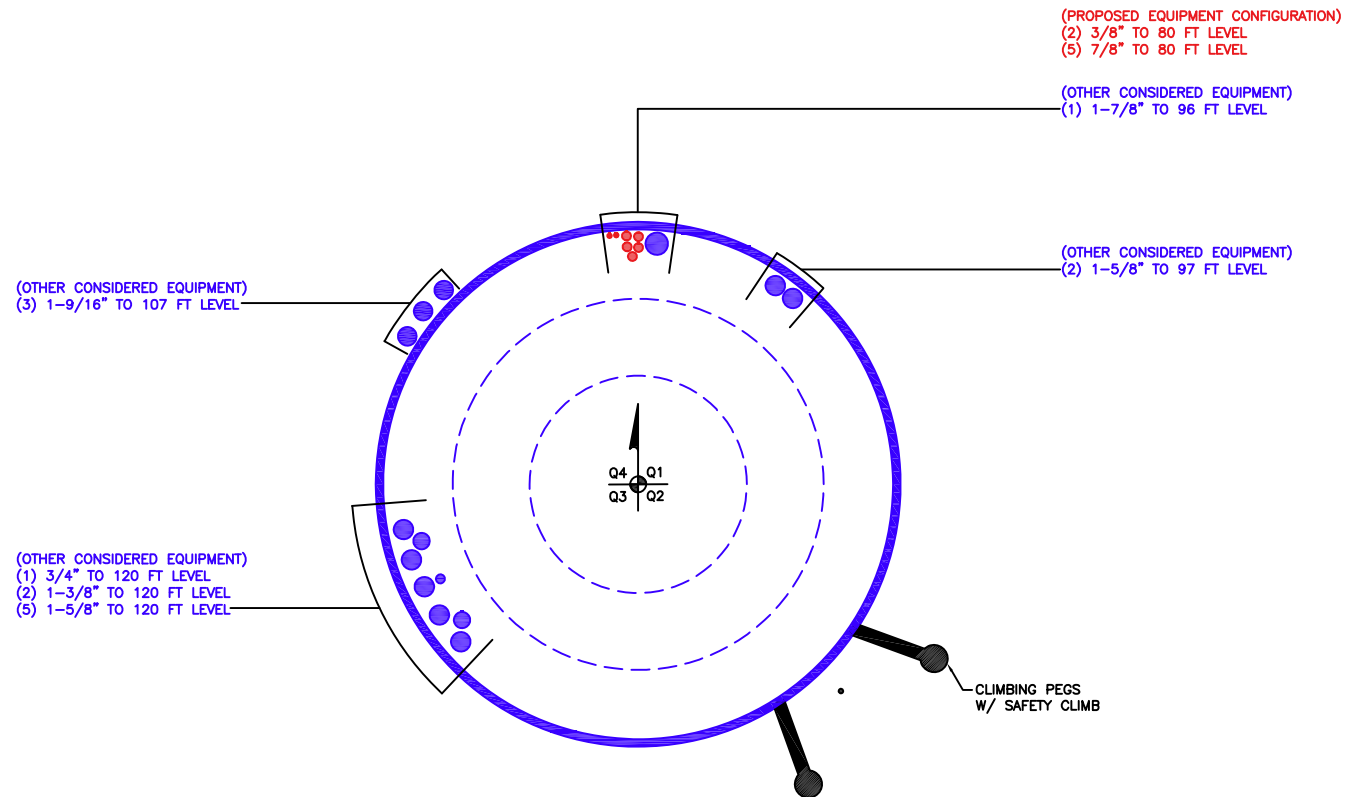
Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	118 - 77.04 (1)	0.012	0.486	0.000	0.036	0.000	0.500	1.050	
L2	77.04 - 48.17 (2)	0.018	0.895	0.000	0.045	0.000	0.915	1.050	
L3	48.17 - 0 (3)	0.015	0.834	0.000	0.028	0.000	0.849	1.050	

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	118 - 77.04	Pole	TP27.2x18x0.1875	1	-11.26	955.27	47.6	Pass
L2	77.04 - 48.17	Pole	TP33.18x25.9445x0.1875	2	-19.99	1168.39	87.2	Pass
L3	48.17 - 0	Pole	TP43.5x31.7745x0.25	3	-29.16	2108.03	80.9	Pass
							Summary	
							Pole (L2)	87.2
							RATING =	87.2
								Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

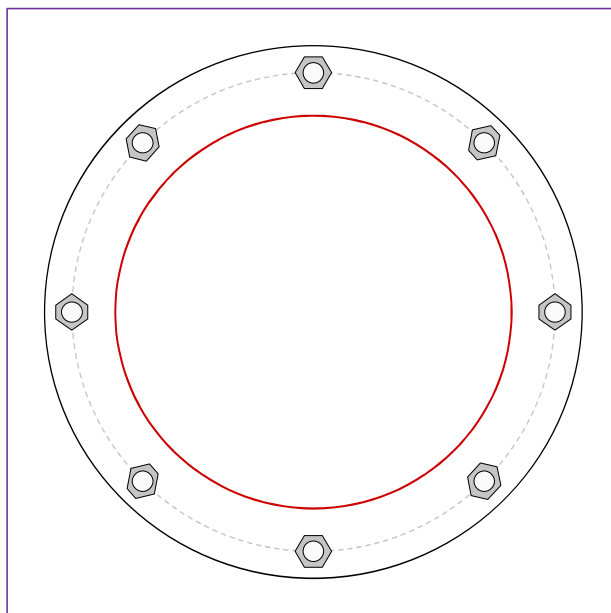
Monopole Base Plate Connection

Site Info	
BU #	824322
Site Name	GrdnCity_Roe
Order #	665802 Rev. 2

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
I_{ar} (in)	0

Applied Loads	
Moment (kip-ft)	1524.15
Axial Force (kips)	29.16
Shear Force (kips)	16.87

*TIA-222-H Section 15.5 Applied



Connection Properties

Anchor Rod Data

(8) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 53" BC

Base Plate Data

59" OD x 1.75" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi)

Stiffener Data

N/A

Pole Data

43.5" x 0.25" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Analysis Results

Anchor Rod Summary

(units of kips, kip-in)

$Pu_t = 168.77$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 2.11$	$\phi Vn = 149.1$	65.9%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Base Plate Summary

Max Stress (ksi):	38.42	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	67.8%	Pass

Drilled Pier Foundation

BU # :	824322
Site Name:	GrdnCity_Roe
Order Number:	665802 Rev. 2
TIA-222 Revision:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	1524.15	
Axial Force (kips)	29.18	
Shear Force (kips)	16.84	

Material Properties	
Concrete Strength, f _c :	4 ksi
Rebar Strength, F _y :	60 ksi
Tie Yield Strength, F _y :	60 ksi

Pier Design Data	
Depth	23 ft
Ext. Above Grade	1 ft
Pier Section 1	
From 1' above grade to 23' below grade	
Pier Diameter	6.5 ft
Rebar Quantity	30
Rebar Size	8
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check		
D _{u=0} (ft from TOC)	5.93	-
Soil Safety Factor	3.90	-
Max Moment (kip-ft)	1608.53	-
Rating*	32.5%	-
Soil Vertical Check		
Skin Friction (kips)	200.78	-
End Bearing (kips)	231.45	-
Weight of Concrete (kips)	93.65	-
Total Capacity (kips)	432.24	-
Axial (kips)	122.83	-
Rating*	27.1%	-
Reinforced Concrete Flexure		
Critical Depth (ft from TOC)	5.81	-
Critical Moment (kip-ft)	1608.46	-
Critical Moment Capacity	3636.79	-
Rating*	42.1%	-
Reinforced Concrete Shear		
Critical Depth (ft from TOC)	17.83	-
Critical Shear (kip)	189.10	-
Critical Shear Capacity	569.97	-
Rating*	31.6%	-
Structural Foundation Rating*	42.1%	
Soil Interaction Rating*	32.5%	

*Rating per TIA-222-H Section 15.5



Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile														
Groundwater Depth		3	# of Layers		5									
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	Y _{soil} (pcf)	Y _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	120	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	5	2	57.6	87.6	0	38	0.000	0.000	0.32	0.21			Cohesionless
3	5	10	5	57.6	87.6	0	40	0.000	0.000	0.56	0.37			Cohesionless
4	10	15	5	57.6	87.6	0	31	0.000	0.000	0.43	0.28			Cohesionless
5	15	23	8	57.6	87.6	0	40	0.000	0.000	0.94	0.62	9.3		Cohesionless

Standard:	ASCE/SEI 7-16	Latitude:	43.672953
Risk Category:	II	Longitude:	-116.289242
Soil Class:	D - Default (see Section 11.4.3)	Elevation:	2605.1169200304057 ft (NAVD 88)

No Address at This Location

ASCE/SEI 7-16

43.672953

11

:-116.289242

D - Default (see Section 11.4.3)

2605.1169200304057 ft
(NAVD 88)



Results:

Wind Speed	102 Vmph
10-year MRI	71 Vmph
25-year MRI	77 Vmph
50-year MRI	82 Vmph
100-year MRI	87 Vmph

Date Accessed: Tue Jun 11 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

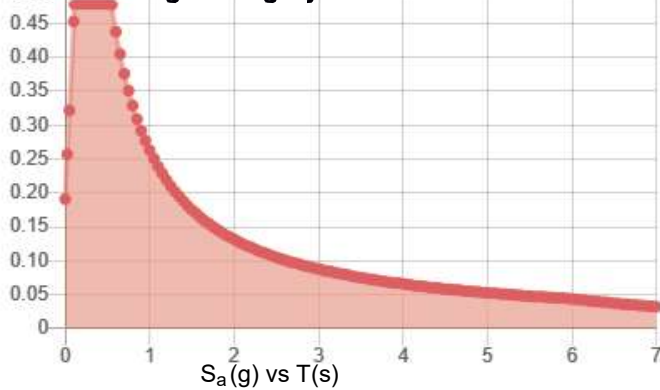
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Site Soil Class: D - Default (see Section 11.4.3)

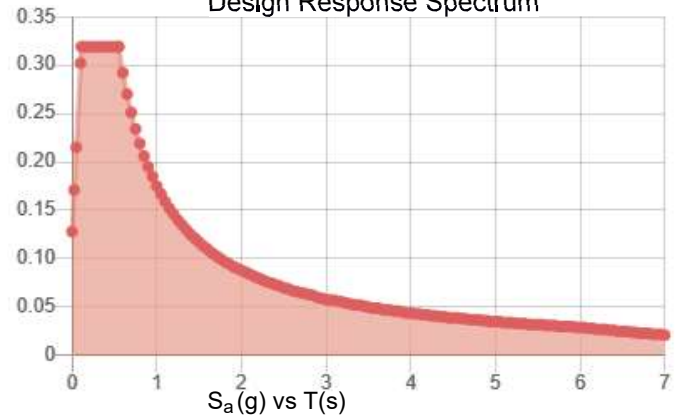
Results:

S_S :	0.308	S_{D1} :	0.175
S_1 :	0.111	T_L :	6
F_a :	1.553	PGA :	0.136
F_v :	2.379	PGA _M :	0.208
S_{MS} :	0.479	F_{PGA} :	1.527
S_{M1} :	0.263	I_e :	1
S_{DS} :	0.319	C_v :	0.905

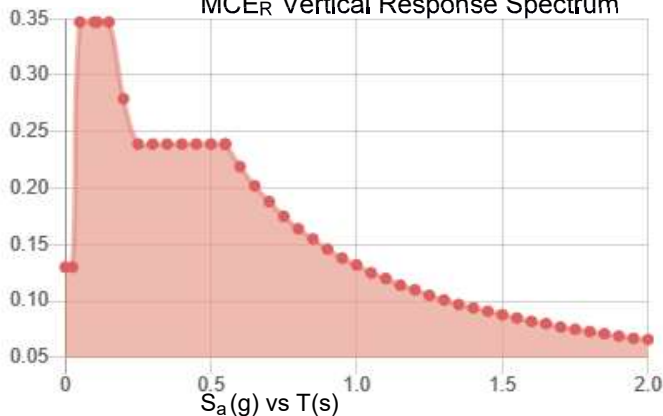
Seismic Design Category: C
MCE_R Response Spectrum



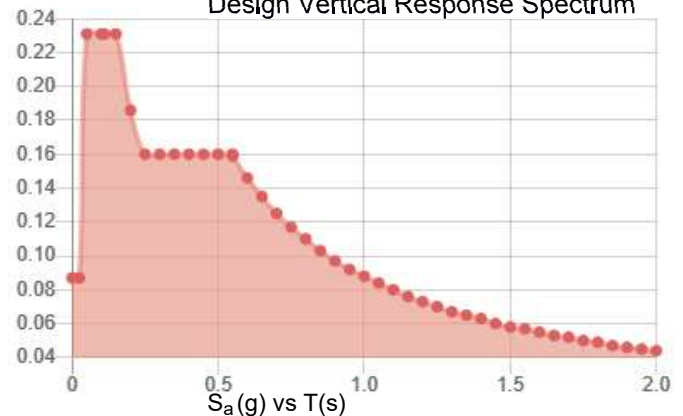
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Tue Jun 11 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 0.50 in.
Concurrent Temperature: 15 F
Gust Speed 40 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Tue Jun 11 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

EMPIRE
TITLE & ESCROW

5620EID TT

WARRANTY DEED

FOR VALUE RECEIVED

Blynn Properties, L.L.C., a Limited Liability Company as to Parcel 1 and Blynn Properties, LLC, an Idaho Limited Liability Company as to Parcel 2 GRANTOR(s) does(do) hereby GRANT, BARGAIN, SELL and CONVEY unto:

DBII LLC, an Idaho limited liability company

GRANTEE(s), whose current address is: 9884 Stony Brook Way, Middleton, ID 83644 the following described real property in Ada County, State of ID more particularly described as follows, to wit:

SEE ATTACHED EXHIBIT A

TO HAVE AND TO HOLD the said premises, with their appurtenances unto said Grantee(s), and Grantee(s) heirs and assigns forever. And Grantor(s) does(do) hereby covenant to and with said Grantee(s) that Grantor(s) is/are the owner(s) in fee simple of said premises, that said premises are free from all encumbrances, EXCEPT those to which this conveyance is expressly made subject and those made, suffered or done by the Grantee(s); and subject to reservations, restrictions, dedications, easements, rights of way and agreements, if any, of record, and general taxes and assessments, (including irrigation and utility assessments, if any) for the current year which are not yet due and payable and the Grantor(s) will warrant and defend the same from all lawful claims whatsoever.

Dated this 10th day of June, 2020

Blynn Properties, L.L.C., an Idaho limited liability company as to Parcel 2 and Blynn Properties, L.L.C., an Idaho limited liability company as to Parcel 1

by:

Robert A Miller, Jr., Member

State of Idaho
County Ada

On this 10th day of June, in the year of 2020, before me the undersigned Notary Public in and for said State, personally appeared Robert A. Miller Jr. known or identified to me to be the member, of the limited liability company that executed the instrument or the person who executed the instrument on behalf of said limited liability company and acknowledged to me that such limited liability company executed the same.



Notary Public for IDAHO
Residing at: Kuna, ID
My Commission Expires: 3/29/22

TAYLER TIBBITTS
COMMISSION #67394
NOTARY PUBLIC
STATE OF IDAHO
COMMISSION EXPIRES 03/29/2022

TAYLER TIBBITTS
COMMISSION #67394
NOTARY PUBLIC
STATE OF IDAHO
MY COMMISSION EXPIRES 03/29/2022

EXHIBIT A

Parcel I:

Commencing at the quarter section common to Section 23 and 24, Township 4 North, Range 1 East, Boise Meridian, Ada County, Idaho, thence
South 89 degrees 37' East 1451.10 feet to an iron pin, thence
North 83 degrees 21' West 299.67 feet to an iron pin, thence
North 21 degrees 23'30" East 475.89 feet to an iron pin, thence
North 62 degrees 00' West 127.49 feet to a point, thence
North 26 degrees 22' East 286.30 feet to an iron pin, the REAL POINT OF BEGINNING, thence
North 26 degrees 22' East 326.11 feet to a point on the Southerly boundary of the real right of way of Highway No. 44 thence
North 61 degrees 50' West 159.98 feet along said right of way to an iron pin, thence
South 0 degrees 35'30" West 367.72 feet to the REAL POINT OF BEGINNING.
Except that portion conveyed to Ada County Highway District by Instrument No. 95052011, records of Ada County.

Parcel II:

Lot 11 in Block 2 of Azalea Subdivision, according to the plat thereof file in Book 71 of Plats at Pages 7243 and 7244, records of Ada County, Idaho and amended by Warranty Deed recorded December 27, 1996 under Instrument No. 96106001.

**ASSIGNMENT AND ASSUMPTION OF EASEMENT AGREEMENT
DATED OCTOBER 3, 2019**

Prepared by:

Robert W. Mouton, Esq.
Locke Lord LLP
601 Poydras Street, Suite 2660
New Orleans, LA 70130

Return to:

Tara Groda
Crown Castle Post-Closing Department
1220 Augusta Drive, Suite 600, Houston, TX 77057

ASSIGNMENT AND ASSUMPTION OF EASEMENT AGREEMENT

This Assignment and Assumption of Easement Agreement (this "**Assignment**") is made and entered into as of the 3 day of October, 2019, but effective as of the 31st day of October, 2019 (the "**Effective Date**") by and between **Ulysses Asset Sub II, LLC**, a Delaware limited liability company, f/k/a T6 Unison Site Management LLC, a Delaware limited liability company (the "**Assignor**"), and **Global Signal Acquisitions IV LLC**, a Delaware limited liability company (the "**Assignee**"). Assignor and Assignee are sometimes referred to herein individually as a "**Party**" and collectively referred to herein as the "**Parties**".

WHEREAS, Assignor and Assignee are parties to that certain Site Exchange Agreement dated November 7, 2016, as amended by that certain Amended and Restated Site Exchange Agreement dated as of March 6, 2017 (as the same may have been further amended from time to time, collectively, the "**Exchange Agreement**"), pursuant to, and upon the terms of which, Assignor and Assignee have agreed to assign, transfer and convey all of their respective right, title and interest in and to certain assets, including, without limitation, real property interests, to each other, and to transfer certain obligations related thereto, all as more particularly described in the Exchange Agreement; and

WHEREAS, Assignor is the grantee pursuant to that certain easement agreement described on **Exhibit A** attached hereto and by this reference incorporated herein (as the same may have been

amended, modified or assigned from time to time, collectively, the "**Easement Agreement**", and together with any hereinbelow described Net Profits Agreement, Letter Agreement and Ground Lease, as applicable, the "**Easement Documents**"), pursuant to which the grantor specified in **Exhibit A** (hereinafter, the "**Grantor**") granted and conveyed to Assignor an easement in, to, under and over a certain portion of real property owned by the Grantor (the real property owned by the Grantor, hereinafter, the "**Property**", which Property is more particularly described in **Exhibit A-1** attached hereto and by this reference incorporated herein; and such portion of the Property subject to the Easement Agreement, hereinafter, the "**Easement Area**", which Easement Area is more particularly described in **Exhibit B** attached hereto and by this reference incorporated herein); and

WHEREAS, Assignor is also the current landlord under that certain lease agreement described on **Exhibit C** attached hereto and by this reference incorporated herein (as the same may have been amended, modified or assigned from time to time, collectively, the "**Ground Lease**"), and which Ground Lease demises a portion of the Property; and

WHEREAS, Assignor is also party to that certain Net Profits Agreement dated August 19, 2010 by and between Assignor and the Grantor (as the same may have been amended, modified or assigned from time to time, collectively the "**Net Profits Agreement**");

WHEREAS, the Parties hereby desire to effect such assignments, transfers and assumptions;

NOW, THEREFORE, in consideration of the representations, warranties, covenants and agreements contained in the Exchange Agreement, the Parties hereto hereby agree as follows:

1. **Capitalized Terms.** Capitalized terms used but not defined herein shall have the meaning given to such terms in the Exchange Agreement.
2. **Assignment and Transfer of Easement Documents.** As of the Effective Date, Assignor hereby assigns and transfers unto Assignee, and Assignee hereby accepts from the Assignor, all of the right, title and interest of Assignor in, to and under the Easement Documents, upon the terms and subject to the conditions of the Exchange Agreement and the Easement Documents, respectively. Notwithstanding anything in this Assignment to the contrary, but without limiting any of the Parties' duties and obligations arising under this Assignment, this Assignment shall not constitute an assignment or transfer hereby of any right, title and interest of Assignor in, to and under an Easement Document if an attempted assignment or transfer, without the authorization of a third party thereto, would constitute a breach or violation of such Easement Document, or in any way adversely affect the rights of Assignee thereunder, but only to the extent such authorization has not been obtained. If any authorization described in the preceding sentence is not obtained, or if any attempt at an assignment, transfer or other conveyance thereof would be ineffective or would affect the rights of the Assignor thereunder so that, after the applicable Closing Date, the Assignee would not in fact receive all such rights or obtain the benefits and rights contemplated by this Assignment and the Exchange Agreement, then the

Assignee may elect to pursue certain options, as more particularly described in Section 2(c) of the Exchange Agreement.

3. **Assumption of Easement Documents.** As of the Effective Date, Assignor hereby assigns and transfers to Assignee, and Assignee assumes and agrees to keep, observe and perform all of the terms, covenants, agreements, conditions and obligations (other than Pre-Closing Liabilities), pursuant to the Easement Documents. The Assignee assumes and agrees to keep, observe and perform those terms, covenants, agreements, conditions and obligations (other than Pre-Closing Liabilities), with the same force and effect as if the Assignee instead of Assignor (or any predecessor of the Assignor) had originally signed the Easement Documents.
4. **Terms of Exchange Agreement Control.** The provisions of this Assignment are subject, in all respects, to the terms and conditions of the Exchange Agreement, including, without limitation, all of the covenants, agreements, representations, and warranties contained therein, which shall survive the execution and delivery of this Assignment to the extent provided in the Exchange Agreement. Neither the making nor the acceptance of this Assignment shall in any way supersede, modify, replace, amend, change, rescind, waive, exceed, expand, enlarge, or in any way affect the terms and conditions of the Exchange Agreement. In the event of any conflict or inconsistency between the terms and conditions of this Assignment and the terms and conditions of the Exchange Agreement, the terms and conditions of the Exchange Agreement shall control.
5. **Amendments.** This Assignment may not be amended, modified or terminated except by an instrument in writing executed by the parties to this Assignment.
6. **Interpretation and Construction.** This Assignment shall be subject to the provisions set forth in Sections 30(g) and 30(h) of the Exchange Agreement, except to the extent that any contrary or different terms are set forth herein.
7. **Successors and Assigns.** This Assignment shall inure to the benefit of and be binding upon Assignor, Assignee, and their respective successors and assigns. Except as permitted under Section 30(d) of the Exchange Agreement, no Party may transfer or assign this Assignment or any of its rights hereunder, without the prior written consent of the other Party. Notwithstanding the foregoing, a Party may assign this Assignment to an Affiliate or to a party acquiring such Party or all or substantially all of the assets of such Party, provided, however, that the terms of any such acquisition may not impair, in any substantive way, either Party's ability to perform this Assignment.

8. **Notice.** All notices must be in writing and shall be valid upon receipt when delivered by hand, by nationally recognized courier service, or by First Class United States Mail, certified, return receipt requested to the addresses set forth below:

To Assignor: American Towers LLC
Attn: Landlord Relations
10 Presidential Way
Woburn, MA 01801

To Assignee: Crown Castle USA Inc
c/o Crown Castle International Corp.
Attn: Senior Vice President,
Corporate Development
1220 Augusta Drive, Suite 600
Houston, TX 77057

With copy to: American Towers LLC
Attn: General Counsel
116 Huntington Avenue
11th Floor
Boston, MA 02116

With copy to: Crown Castle USA Inc
c/o Crown Castle International Corp.
Attn: Senior Vice President and
General Counsel
1220 Augusta Drive, Suite 600
Houston, TX 77057

American Towers LLC
Attn: Shawn Lanier, VP Legal
10 Presidential Way
Woburn, MA 01801

Either Party, by written notice to the other in the manner provided herein, may designate one or more different notice addresses from those set forth above. Refusal to accept delivery of any notice or the inability to deliver any notice because of a changed address for which no notice was given as required herein, shall be deemed to be receipt of any such notice.

9. **Governing Law.** Notwithstanding anything to the contrary contained in this Assignment, this Assignment shall be governed and construed in all respects in accordance with the laws of the State of New York (except to the extent the laws of the State or Commonwealth in which the Property is situated are mandatorily applicable, in which case the laws of such State or Commonwealth shall govern to the extent required), without regard to the conflicts of laws provisions of New York, or, as applicable, such State or Commonwealth. Any dispute directly related to the breach of this Assignment shall be resolved in accordance with Section 30(e) of the Exchange Agreement.
10. **Counterpart Signatures.** This Assignment may be executed in several counterparts, each of which when so executed and delivered shall be deemed an original, and all of which, when taken together, shall constitute one and the same instrument, binding on all of the Parties, even

though all Parties are not signatories to the original or the same counterpart. Furthermore, the Parties may execute and deliver this Assignment by electronic means such as .pdf or similar format. Each of the Parties agrees that the delivery of the Assignment by electronic means will have the same force and effect as delivery of original signatures and that each of the Parties may use such electronic signatures as evidence of the execution and delivery of the Assignment by all Parties to the same extent as an original signature.

- 11. No Merger.** It is the intent of the Assignee that the landlord interest in the Ground Lease shall not merge with the tenant interest in the Ground Lease, notwithstanding that both leasehold interests may be held at any time by the same party.

END OF DOCUMENT – SIGNATURE PAGES TO FOLLOW

IN WITNESS WHEREOF, each Party has caused this Assignment to be executed by their respective duly authorized officers to be duly effective as of the Effective Date written above.

ASSIGNOR:

Ulysses Asset Sub II, LLC
a Delaware limited liability company

Signature: _____
Print Name: Shawn Lanier
Title: Vice President, US Legal

WITNESSES:

Signature: _____
Print Name: Kevin P. McMahon

Signature: _____
Print Name: Michael D. Peto

WITNESS AND ACKNOWLEDGEMENT

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF MIDDLESEX

On this 29th day of October, 2019, before me, Julie E. Kaplan the undersigned Notary Public, personally appeared Shawn Lanier, Vice President – US Legal, proved to me through satisfactory evidence of identity, which was/were personally known, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she/they signed it voluntarily for its stated purpose(.).

X as Vice-President, US Legal for Ulysses Asset Sub II, LLC, a Delaware limited liability company



JULIE E. KAPLAN
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 12, 2020

Signature of Notary Public

Printed name of Notary

Place Notary Seal and/or Stamp Above

My Commission Expires _____

SIGNATURES CONTINUE ON NEXT PAGE



JULIE E. KAPLAN
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 12, 2020

ASSIGNEE:

Global Signal Acquisitions IV LLC,
a Delaware limited liability company

Signature: _____

Print Name: _____

Title: _____

R.Christopher Mooney
Vice President

WITNESSES:

Signature: _____

Print Name: _____

J.V. BUDET

Signature: _____

Print Name: _____

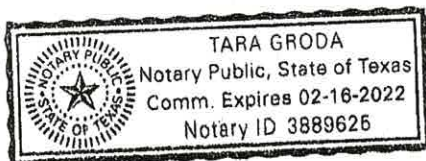
Caren Shaughnessy

WITNESS AND ACKNOWLEDGEMENT

STATE OF TEXAS

COUNTY OF HARRIS

This instrument was acknowledged before me on October 3, 2019, by R.Christopher Mooney,
the VP of Global Signal Acquisitions IV LLC, a Delaware
limited liability company, on behalf of said company.



SEAL

Notary Public
My commission expires: 2/16/2022

Attachments:

Exhibit A: Easement Agreement

Exhibit A-1: Property

Exhibit B: Easement Area

Exhibit C: Ground Lease

EXHIBIT A

EASEMENT AGREEMENT

That certain Wireless Communication Easement and Assignment Agreement dated as of August 18, 2010, by and between Blynn Properties, L.L.C. a/k/a LLC ("Site Owner") and Treasure Valley Collision Center L.L.C. ("Joinder Party") ("**Grantor**"), as original easement grantor, and T6 Unison Site Management LLC, a Delaware limited liability company ("**T6**"), as original easement grantee, recorded on September 16, 2010, with the records of Ada County, Idaho, as Document No. 110086348, as amended by that certain First Amendment to Wireless Communication Easement and Assignment dated as of March 16, 2016, by and between the aforesaid Grantor and Ulysses Asset Sub II, LLC, a Delaware limited liability company, as grantee, and recorded on April 19, 2016, with the records of Ada County, Idaho, as Document No. 2016-032648.

EXHIBIT A-1

LEGAL DESCRIPTION OF PROPERTY

The following described premises, to-wit:

Lot 11 in Block 2 of Azalea Subdivision, according to the official plat thereof filed in Book 71 of Plats at Pages 7243 and 7244, records of Ada County, Idaho and amended by warranty deed recorded December 27, 1996 under Instrument No. 96106001.

AND BEING the same property conveyed to Treasure Valley Collision Center L.L.C., an Idaho limited liability company from Steven G. Gregory, a married man as his sole and separate property by Warranty Deed dated October 03, 2005 and recorded October 04, 2005 in Instrument No. 105148172; AND FURTHER CONVEYED to Blynn Properties, L.L.C., a limited liability company from Treasure Valley Collision Center, L.L.C. by Quitclaim Deed dated July 28, 2008 and recorded July 30, 2008 in Instrument No. 108086742.

Tax Parcel No. R0719420250

EXHIBIT B

LEGAL DESCRIPTION OF EASEMENT AREA

Communication Easement

That portion of the Property on which any Facilities exist on the date of this Agreement together with the portion of the Property leased by Site Owner under the Existing Agreements, and the portion of the Property described as follows:

COMMENCING AT THE NORTHEASTERLY CORNER OF THE PROPERTY AT THE SOUTHERLY LINE OF W. STATE STREET; THENCE SOUTH, ALONG THE EAST LINE OF SAID PROPERTY, 155.00 FEET TO T A POINT; THENCE WEST AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 10.00 FEET TO THE SOUTHEASTERLY CORNER OF THE HEREIN DESCRIBED COMMUNICATION EASEMENT AND POINT OF BEGINNING; THENCE CONTINUE WEST, 60.00 FEET; THENCE NORTH AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 20.00 FEET; THENCE EAST AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 60.00 FEET; THENCE SOUTH AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 20.00 FEET TO THE POINT OF BEGINNING; AND

AN ADDITIONAL 20.00 FEET BY 20.00 FEET ADJOINING THE WESTERLY LINE OF THE ABOVE DESCRIBED PREMISES.

Commencing at the southeast corner of said Lot 11; Thence along the south line of said Lot, N89°02'23"W, 11.14 feet; Thence N00°57'37"E, 7.10 feet; Thence N85°45'42"W, 27.30 feet; Thence N04°14'18"E, 11.80 feet; Thence N00°00'00"E, 4.56 feet (L8) to the Point of Beginning; Thence continuing N00°00'00"E, 5.85 feet (L9); Thence S88°51'23"E, 26.00 feet; Thence S01°08'37"W, 5.77 feet (L10); Thence N89°02'23"W, 25.88 to the Point of Beginning.

ACCESS AND UTILITY EASEMENTS

That portion of the Property on which any Facilities exist on the date of this Agreement or provided by Site Owner under the Existing Agreements for access and utility providers, including the following:

All rights of ingress and egress across the Property, more fully described on Exhibit "A" hereof, to and from the Communication Easement described in Exhibit B-1 hereof, providing access to a publicly dedicated roadway, including but not limited to W. State Street (hereinafter the "Access Easement"), along with the right to use said Access Easement for the development, repair, maintenance and removal of utilities providing service to the Communication Easement and the Facilities, as defined herein, and any related activities and uses.

EXHIBIT C

GROUND LEASE

1. That certain Site Lease with Option by and between Steven G. Gregory, as landlord, and VoiceStream PCS II Corporation, a Delaware corporation, as tenant, dated November 19, 2003, a memorandum of which was recorded on July 22, 2005 with the records of Ada County, Idaho as Document No. 105099836, as assigned by Steven G. Gregory to Treasure Valley Collision Center, L.L.C., an Idaho limited liability company, by that certain Assignment of Lease dated October 3, 2005 and recorded on October 5, 2005, with the records of Ada County, Idaho, as Document No. 105148893, as affected by that certain Master Prepaid Lease and Management Agreement dated November 30, 2012, in favor of CCTMO LLC, a memorandum of which was recorded on June 21, 2016, with the records of Ada County, Idaho, as Document No. 2016-054363.
2. That certain unrecorded Communication Site Lease Agreement (Ground Space) by and between Steven G. Gregory, an unmarried person, as landlord, and Clearwire LLC, a Nevada limited liability company, as tenant, dated as of September 15, 2005, as assigned by Steven G. Gregory to Treasure Valley Collision Center, L.L.C., an Idaho limited liability company, by that certain Assignment of Lease recorded on October 5, 2005, with the records of Ada County, Idaho, as Document No. 105148893.

**FIRST AMENDMENT TO WIRELESS COMMUNICATION EASEMENT AND ASSIGNMENT AGREEMENT
DATED MARCH 16, 2016**

Prepared by and Return to:

Ulysses Asset Sub II, LLC
c/o American Tower Corporation
Attn: Land Management/Michael Abodeely, Esq.
10 Presidential Way
Woburn, MA 01801
Site No: 276123 / ID-9501
Site Name: Blynn Properties G ID
Assessor's Parcel No(s): R0719420250

Prior Recorded Easement Reference:

Document No: 110086348
State of Idaho
County of Ada

**First Amendment to
Wireless Communication Easement and Assignment Agreement**

THIS FIRST AMENDMENT TO WIRELESS COMMUNICATION EASEMENT AND ASSIGNMENT AGREEMENT (the "***First Amendment***") is made effective as of the latter signature date hereof (the "***Effective Date***") by and between Ulysses Asset Sub II, LLC, a Delaware limited liability company, formerly known as T6 Unison Site Management, LLC (having a mailing address of c/o American Tower Corporation, 10 Presidential Way, Woburn, MA 01801) ("***Ulysses***"), Blynn Properties, LLC, an Idaho limited liability company (having a mailing address of 8247 W. State Street, Garden City, Idaho 83714) ("***Site Owner***"), and Treasure Valley Collision Center, L.L.C., an Idaho limited liability company (having a mailing address of 8247 W. State Street, Garden City, Idaho 83714) ("***Joinder Party***"). Site Owner, Joinder Party and Ulysses being collectively referred to herein as the "***Parties***" and individually as a "***Party***".

WHEREAS, Site Owner is the fee simple owner of real property located in Ada County, State of Idaho, having an address of 8247 W. State Street, Garden City, Idaho 83714, and as more particularly described on Exhibit A attached hereto (the "***Property***");

WHEREAS, Site Owner, Joinder Party and Ulysses entered into that certain Wireless Communication Easement and Assignment Agreement dated August 18, 2010 and recorded in Ada County, Idaho, Instrument No. 110086348 (the "***Agreement***"), whereby Site Owner and Joinder Party granted Ulysses and its Customers (as defined in the Agreement) certain Easements (as defined in the Agreement) over the Property (such Easements, collectively, the

“**Site**”) and assigned Site Owner’s and Joinder Party’s interests in certain Existing Agreements (as defined in the Agreement) to Ulysses; and

WHEREAS, Ulysses, Site Owner and Joinder Party desire to enter into this Amendment to expand the Communication Easement (as defined in the Agreement) granted to Ulysses and to secure the rights necessary for Ulysses and its Customers to operate the Site.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual covenants set forth herein and other good and valuable consideration, the receipt, adequacy, and sufficiency of which are hereby acknowledged, Site Owner, Joinder Party and Ulysses agree that the Agreement is hereby amended as follows:

1. **Recitals and Definitions.** Capitalized terms used and not otherwise defined herein shall have the same meaning as used in the Agreement. The recitals set forth above are hereby incorporated herein by this reference.
2. **Expansion of Communication Easement.**
 - a. Site Owner and Ulysses desire to amend the Agreement in order to expand the Communication Easement granted to Ulysses. Site Owner and Ulysses agree and acknowledge that Exhibit B-1 to the Agreement is hereby deleted in its entirety as of the Effective Date of this Amendment and shall be replaced with Exhibit BB-1 attached hereto and incorporated herein by reference. In the event of inconsistency or discrepancy between Exhibit BB-1 attached hereto and Exhibit B-1 to the Agreement, Exhibit BB-1 shall control.
 - b. Site Owner hereby grants to Ulysses and its Customers the right and privilege to enter upon the Property and/or Easements at any time to perform or cause to be performed test borings of the soil, environmental audits, sampling, tests, engineering studies and to conduct a survey of the Property and/or the Easements. Site Owner shall not unreasonably interfere with Ulysses’ and/or its Customers’ use of the Property in conducting these activities. Site Owner will provide Ulysses with any necessary keys or access codes to the Site if needed for ingress and egress.
3. **Rights.** Site Owner expressly confirms, ratifies, acknowledges and affirms the rights granted to Ulysses and its Customers pursuant to the Agreement to construct, maintain, repair, replace, improve, operate, and remove Facilities (as defined in the Agreement) and, notwithstanding any terms of the Agreement to the contrary, to conduct any related activities and uses to comply with the Existing Agreements, without notice to or consent of Site Owner.
4. **Additional Customers.** Site Owner and Ulysses agree to amend the right of first refusal granted by Site Owner to Ulysses. Therefore, Site Owner and Ulysses agree that the following sentence shall be included in Section 13 of the Agreement as the eight (8th) sentence:

"Unison shall give Site Owner notice of its intent to acquire same within thirty (30) days of receipt of Site Owner's notice."

5. **Attorney-in-fact.** Site Owner hereby confirms, ratifies, acknowledges and affirms that pursuant to the Agreement, it irrevocably appointed Ulysses as its true and lawful attorney-in-fact, with full power of substitution and re-substitution, to apply for and obtain any and all licenses, permits, consents or approvals which may be required in connection with the use of the Easements by Ulysses and as necessary to comply with applicable laws, statutes or regulations as set forth in Section 5 of the Agreement.

6. **Site Owner Statements.** Site Owner hereby represents and warrants to Ulysses that: (i) to the extent applicable, Site Owner is duly organized, validly existing, and in good standing in the jurisdiction in which Site Owner was organized, formed, or incorporated, as applicable, and is otherwise in good standing and authorized to transact business in each other jurisdiction in which such qualifications are required; (ii) Site Owner has the full power and authority to enter into and perform its obligations under this Amendment, and, to the extent applicable, the person(s) executing this Amendment on behalf of Site Owner, have the authority to enter into and deliver this Amendment on behalf of Site Owner; (iii) no consent, authorization, order, or approval of, or filing or registration with, any governmental authority or other person or entity is required for the execution and delivery by Site Owner of this Amendment; (iv) Site Owner is the sole owner of the Property; and (v) there are no agreements, liens, encumbrances, claims, claims of lien, proceedings, or other matters (whether filed or recorded in the applicable public records or not) relating to, encumbering, asserted against, threatened against, and/or pending with respect to the Easements or any other portion of the Property which do or could (now or any time in the future) adversely impact, limit, and/or impair Ulysses' rights under the Agreement, as amended and modified by this Amendment. Site Owner hereby does and agrees to indemnify Ulysses for any damages, losses, costs, fees, expenses, or charges of any kind sustained or incurred by Ulysses as a result of the breach of the representations and warranties made herein or if any of the representations and warranties made herein prove to be untrue. The representations and warranties of Site Owner made in this Section shall survive the execution and delivery of this Amendment.

7. **Notice.** Notwithstanding anything to the contrary contained in the Agreement, the address of Ulysses for all purposes as set forth in Section 17 of the Agreement shall be as set forth below:

Ulysses:	Ulysses Asset Sub II, LLC c/o American Tower Corporation 10 Presidential Way Woburn, MA 01801 Attn: Land Management
----------	---

With a copy to: American Towers LLC
c/o American Tower Corporation
116 Huntington Avenue
Boston, MA 02116
Attn: Legal Department

Site Owner: Blynn Properties, LLC
8247 W. State Street
Garden City, ID 83714

Either party may change its notice address by designating one or more different notice addresses from those set forth above, with such change being effective thirty (30) days after receipt of notice thereof. Refusal to accept delivery of any notice or the inability to deliver any notice because of a changed address for which no notice was given as required herein, shall be deemed to be receipt of any such notice.

8. **General Terms and Conditions.** (a) the Agreement, as amended by this Amendment, constitutes the entire agreement and understanding of Site Owner and Ulysses and supersedes all offers, negotiations and any other written or verbal agreements; (b) any amendments to this Amendment must be in writing and executed by both parties; (c) if any term of this Amendment is found to be void or invalid, or ineffective as to third parties such provision shall be fully severable herefrom and such invalidity shall not affect the remaining terms of the Agreement, which shall continue in full force and effect, and the Agreement shall be reformed and construed as if such invalid provision had never been contained herein, and if possible, such provisions shall be reformed to the maximum extent permitted under applicable law to render same valid, operative and enforceable to reflect the intent of the Parties as expressed herein; (d) upon the request of Ulysses, Site Owner shall execute such instruments or plats or surveys as deemed reasonably necessary to describe the Property and Building, or for recordation in the public records of the County in which the Property is located; (e) the paragraph headings of this Amendment have been inserted for convenience of reference only, and shall in no way modify or restrict the terms of the Amendment; and (f) Site Owner agrees to provide Ulysses with such certificates, permit applications, and other instruments and reasonable assurances as reasonably required to fulfill the intent of the terms hereof.

9. **Full Force and Effect; Entirety; Amendment; Successors.** Except as modified herein, the Agreement and all the easements, covenants, agreements, terms, provisions and conditions thereof remain in full force and effect and are hereby ratified and affirmed. This Amendment, together with the Agreement constitutes the entire agreement among the undersigned parties hereto. Any modification to this Amendment or the Agreement must be in writing and signed and delivered by authorized representatives of the affected parties in order to be effective. In the event of a conflict between the terms of this Amendment and the terms of the Agreement, this Amendment and the terms herein shall at all times supersede and control and any ambiguity between such conflicting terms shall be interpreted and resolved based on the terms of this Amendment. This Amendment and the Agreement shall be binding on and inure to the benefit of the parties hereto and their respective heirs, personal representatives, lessees,

successors and assigns. It is the intention of the Parties hereto that all of the various rights, obligations, restrictions and easements created herein shall run with the affected lands and shall inure to the benefit of and be binding upon all future owners and assignees of the affected lands and all persons claiming under them.

10. **Signature; Counterparts.** This Amendment may be executed in several counterparts, each of which when so executed and delivered, shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument, even though the Parties are not signatories to the same counterpart. Furthermore, the Parties may execute and deliver this Amendment by electronic means such as .pdf or similar format. Each Party agrees that the delivery of this Amendment by electronic means will have the same force and effect as delivery of original signatures and that each of the Parties may use such electronic signatures as evidence of the execution and delivery of the Amendment by all Parties to the same extent as an original signature.

11. **Governing Law.** Notwithstanding anything to the contrary contained in the Agreement and in this Amendment, the Agreement and this Amendment shall be governed by and construed in all respects in accordance with the laws of the state or commonwealth in which the Property is situated, without regard to the conflicts of laws provisions of such state or commonwealth.

12. **Joinder Party.** And now to these presents, intervenes Joinder Party, who joins with the Site Owner in entering into this Amendment and does hereby agree to be bound by all of the covenants, agreements, terms, provisions and conditions hereof and joins Site Owner in granting the Communication Easement to Ulysses as set forth in Exhibit BB-1 attached hereto.

IN WITNESS WHEREOF, Site Owner, Joinder Party and Ulysses have each executed this Amendment as of the Effective Date.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

SITE OWNER:

Blynn Properties, LLC,
an Idaho limited liability company

By: [Signature]

Name: Robert Miller
Title: owner

Date: 3-1-16

WITNESS:

Kenneth W. Pierson
Print Name:

Vince Pantalone
Print Name:

STATE OF Idaho
COUNTY OF Ada

I, a Notary Public of the County and State aforesaid, certify that Robert Miller, who is the general partner/manager/member of Blynn Properties, LLC, an Idaho limited liability company, came before me this day and acknowledged the execution of the foregoing instrument.

Witness my hand and official stamp or seal, this 1st day of March, 2016.

[Affix Notary Seal]



[Signature]
Notary Public
My commission expires:
July 14, 2021

[SIGNATURES CONTINUE ON NEXT PAGE]

JOINDER PARTY:

Treasure Valley Collision Center, L.L.C.,
an Idaho limited liability company

By: [Signature]

Name: Robert Miller
Title: _____

Date: 3-1-16

WITNESS:

Kenneth W. Benson
Print Name: _____

Vince Pantalone
Print Name: _____

STATE OF Idaho

COUNTY OF Ada

I, a Notary Public of the County and State aforesaid, certify that Robert Miller, who is the general partner/manager/member of Treasure Valley Collision Center, L.L.C., an Idaho limited liability company, came before me this day and acknowledged the execution of the foregoing instrument.

Witness my hand and official stamp or seal, this 1st day of March, 2016.

[Affix Notary Seal]



[Signature]

Notary Public

My commission expires:

July 14, 2021

[SIGNATURES CONTINUE ON NEXT PAGE]

ULYSSES:

Ulysses Asset Sub II, LLC, a Delaware
limited liability company

By: _____

Name: _____

Title: _____

Edward P. Maggio, Jr.
Senior Counsel, US Tower

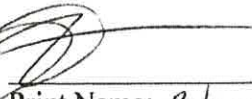
Date: _____

3/16/16

WITNESS:



Print Name: Alexander Sunkin



Print Name: Rahim Akram

COMMONWEALTH OF MASSACHUSETTS)

) ss:

COUNTY OF MIDDLESEX)

On this 16 day of March, 2016, before me, the undersigned
Notary Public, personally appeared Edward P. Maggio, Jr., personally known
to me to be the person whose name is subscribed to the within instrument and acknowledged to
me that he executed the same in his authorized capacity, and that by his signature on the
instrument, the person or the entity upon which the person acted, executed the instrument.




Notary Public
My Commission Expires: 12-17-2021

Exhibit A
Legal Description of Property

The following described premises, to-wit:

Lot 11 in Block 2 of Azalea Subdivision, according to the official plat thereof filed in Book 71 of Plats at Pages 7243 and 7244, records of Ada County, Idaho and amended by warranty deed recorded December 27, 1996 under Instrument No. 96106001.

AND BEING the same property conveyed to Treasure Valley Collision Center L.L.C., an Idaho limited liability company from Steven G. Gregory, a married man as his sole and separate property by Warranty Deed dated October 03, 2005 and recorded October 04, 2005 in Instrument No. 105148172; AND FURTHER CONVEYED to Blynn Properties, L.L.C., a limited liability company from Treasure Valley Collision Center, L.L.C. by Quitclaim Deed dated July 28, 2008 and recorded July 30, 2008 in Instrument No. 108086742.

Tax Parcel No. R0719420250

Exhibit BB-1
Communication Easement

That portion of the Property on which any Facilities exist on the date of this Agreement together with the portion of the Property leased by Site Owner under the Existing Agreements, and the portion of the Property described as follows:

COMMENCING AT THE NORTHEASTERLY CORNER OF THE PROPERTY AT THE SOUTHERLY LINE OF W. STATE STREET; THENCE SOUTH, ALONG THE EAST LINE OF SAID PROPERTY, 155.00 FEET TO T A POINT; THENCE WEST AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 10.00 FEET TO THE SOUTHEASTERLY CORNER OF THE HEREIN DESCRIBED COMMUNICATION EASEMENT AND POINT OF BEGINNING; THENCE CONTINUE WEST, 60.00 FEET; THENCE NORTH AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 20.00 FEET; THENCE EAST AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 60.00 FEET; THENCE SOUTH AND PERPENDICULAR TO THE LAST MENTIONED COURSE, 20.00 FEET TO THE POINT OF BEGINNING; AND

AN ADDITIONAL 20.00 FEET BY 20.00 FEET ADJOINING THE WESTERLY LINE OF THE ABOVE DESCRIBED PREMISES.


Commencing at the southeast corner of said Lot 11; Thence along the south line of said Lot, N89°02'23"W, 11.14 feet; Thence N00°57'37"E, 7.10 feet; Thence N85°45'42"W, 27.30 feet; Thence N04°14'18"E, 11.80 feet; Thence N00°00'00"E, 4.56 feet (L8) to the Point of Beginning; Thence continuing N00°00'00"E, 5.85 feet (L9); Thence S88°51'23"E, 26.00 feet; Thence S01°08'37"W, 5.77 feet (L10); Thence N89°02'23"W, 25.88 to the Point of Beginning.

Site Owner herein agrees that this legal description may be substituted at a later date upon presentation of a survey of the property more clearly defining the location hereof.

Agreed and Approved:

SITE OWNER:

Blynn Properties, LLC,
an Idaho limited liability company

Signature: 

Print Name: Robert Miller

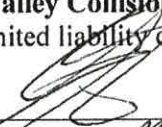
Its: owner

Date: 3-1-16

Exhibit BB-1
Communication Easement
(Continued)

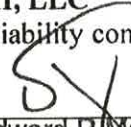
JOINDER PARTY:

Treasure Valley Collision Center, L.L.C.,
an Idaho limited liability company

Signature: 
Print Name: Robert Miller
Its: owner
Date: 3-1-16

ULYSSES:

Ulysses Asset Sub II, LLC
a Delaware limited liability company

Signature: 
Print Name: Edward P. Maggio, Jr.
Its: Senior Counsel, US Tower
Date: 3/12/16

4

**WIRELESS COMMUNICATION EASEMENT AND ASSIGNMENT AGREEMENT
DATED AUGUST 18, 2010**



1070338

Prepared by:
Victoria M. de Lisle
Locke Lord Bissell & Liddell LLP
601 Poydras Street, Suite 2660
New Orleans, LA 70130
File: #0590924/03685

Record and Return to:
Dione Carter
Fidelity National Title Group
7130 Glen Forest Drive, Suite 300
Richmond, VA 23226
Phone: 1.804.267.2049
Fax: 1.804.267.2330
File: #11896145
Unison Site: #316984

WIRELESS COMMUNICATION EASEMENT AND ASSIGNMENT AGREEMENT

THIS WIRELESS COMMUNICATION EASEMENT AND ASSIGNMENT AGREEMENT ("Agreement") is made as of the 18th day of August, 2010 ("Effective Date"), by and between Blynn Properties, L.L.C. a/k/a LLC, whose address is 8247 W. State Street, Garden City, Idaho 83714 ("Site Owner"), Treasure Valley Collision Center L.L.C. whose address is 8247 West State Street, Boise, Idaho 83714 ("Joinder Party"), and T6 Unison Site Management LLC, a Delaware limited liability company, whose address is P.O. Box 1951, Frederick, Maryland 21702-0951 ("Unison"). All references hereafter to "Unison", "Site Owner" and "Joinder Party" shall include their respective heirs, successors, personal representatives, lessees, licensees and assigns (Unison and Site Owner, collectively, "Parties").

RECITALS

WHEREAS, Site Owner is the owner of that certain property ("Property") located in the City of Garden City, and County of Ada in the State of Idaho, having a street address of 8247 W. State Street, Garden City, Idaho 83714, and which Property is more particularly described on Exhibit A attached hereto.

NOW, THEREFORE, for and in consideration of the sum of Ten and No/100 Dollars and other good and valuable consideration, the receipt and sufficiency of which Site Owner does hereby acknowledge and grant Unison full discharge and acquittance therefor, Site Owner and Unison agree to the following:

1. Grant of Easement.

(a) Site Owner grants, bargains, sells, transfers and conveys to Unison:

- (i) an exclusive easement in, to, under and over the portion of the Property substantially as shown and/or described on Exhibit B-1 ("Communication Easement") for the transmission and reception of any and all wireless communication signals and the construction, maintenance, repair, replacement, improvement, operation and removal of towers, antennas, buildings, fences, gates, generators and related facilities

(collectively, "Facilities") and any related activities and uses including those necessary for Unison to comply with its obligations under the agreements listed on Exhibit C ("Existing Agreements") together with the right to enter the Property and access the Easements described below, without notice to Site Owner, twenty-four (24) hours a day, seven (7) days a week, as may be required in connection with the activities and uses described in this Agreement, and

(ii) a non-exclusive easement in, to, under and over portions of the Property substantially as shown and/or described on Exhibit B-2 ("Access and Utility Easements," Communication Easement and Access and Utility Easements, collectively "Easements") for ingress and egress to and from the Communication Easement and a publicly dedicated roadway, and for the installation, repair, replacement, improvement, maintenance and removal of utilities providing service to the Communication Easement and the Facilities, and any related activities and uses.

- (b) The Parties agree that the Communication Easement includes, without limitation, (i) the portion of the Property leased by Site Owner under the Existing Agreements, plus an additional 20.00 feet by 20.00 feet adjoining the westerly line of the area leased under the Existing Agreements and (ii) the portion of the Property upon which any Facilities are located on the Effective Date.

2. Assignment of Existing Agreements. Site Owner transfers and assigns to Unison, as of the Effective Date, all of its right, title and interest in, to and under the Existing Agreements, including without limitation, all rents, security deposits and other monies due the Site Owner specified therein. The Parties intend that this Agreement serve as an absolute assignment and transfer to Unison of all rents and other monies due the Site Owner pursuant to the Existing Agreements. Unison assumes the obligations and liabilities of Site Owner under the Existing Agreements only to the extent that such obligations and liabilities (i) are not the responsibility of the Site Owner pursuant to the terms of this Agreement; and (ii) accrue on or after the Effective Date.

3. Use of Easements. Consistent with the uses set forth in Section 1 above, Unison shall have the unrestricted right to lease, license, transfer or assign, in whole or in part, or permit the use of the Easements and/or its rights under this Agreement by any third parties including communication service providers or tower owners or operators, and any lessee or licensee under the Existing Agreements and the affiliates, agents, contractors, invitees and employees of Unison and/or Unison's present or future lessees or licensees (collectively, "Customers").

4. Term. This Agreement and the Easements shall be perpetual commencing on the Effective Date. Notwithstanding the foregoing, in the event Unison and Customers voluntarily cease to use the Easements (as defined in Section 1) for a period of more than five years (for reasons other than casualty, condemnation or Act of God), the Easements shall be deemed surrendered. Unison may surrender the Easements for any reason or at any time by giving thirty (30) days' notice to Site Owner. Upon surrender, this Agreement shall be terminated, and Unison and Site Owner shall execute and record such documents reasonably required to terminate the Easements. This Agreement may not be terminated by Site Owner.

5. Improvements; Utilities. Unison and its Customers, may, at their discretion and expense, construct such improvements in, to, under and over the Easements, consistent with the uses specified in Section 1, all of which shall be deemed part of the Facilities. The Facilities shall remain the property of Unison and its Customers, as applicable, and Site Owner shall possess no right, title or interest therein. In the event that utilities necessary to serve the Facilities cannot be installed within the Easements, Site Owner agrees to cooperate (at no cost to Site Owner) with Unison and to act reasonably and in good faith in granting Unison the right to locate such utilities on the Property without requiring the payment of additional fees. If necessary, Site Owner shall, upon Unison's request, execute and record a separate written easement with Unison or with the utility company providing the utility service to reflect such right. Site Owner hereby irrevocably constitutes and appoints Unison as its true and lawful attorney-in-fact, with full power of substitution and resubstitution, to apply for and obtain any and all licenses, permits, consents or approvals which may be required in connection with the use of the Easements by Unison and as necessary to comply with applicable laws, statutes or regulations.

6. Taxes. Site Owner acknowledges that a portion of the purchase price delivered by Unison to Site Owner is for and in consideration of the continuing obligation of Site Owner to pay, on or before the due date, all present and future real property taxes, transfer taxes, penalties, interest, roll-back or additional taxes, sales and use taxes and all other

fees and assessments, regardless of the taxing method (the "Taxes") attributable to the Property, this Agreement and the Easements. Without limiting the foregoing, except to the extent Taxes are the obligation of tenants under the Existing Agreements, Site Owner shall be solely responsible for the payment of such Taxes. Within ten (10) days of receiving a request from Unison, Site Owner shall furnish to Unison a copy of each bill for any such Taxes and evidence of Site Owner's payment of such bill. In the event that Site Owner fails to pay any Taxes when due, Unison shall have the right, but not the obligation, to pay such Taxes on behalf of Site Owner. Site Owner shall reimburse Unison for the full amount of such Taxes paid by Unison on Site Owner's behalf within five (5) business days of Site Owner's receipt of an invoice from Unison.

7. Property Maintenance and Access. Site Owner agrees to maintain the Property. Without limiting the foregoing, except to the extent maintenance is the obligation of tenants under the Existing Agreements, Site Owner shall be solely responsible for the maintenance of the Property. Site Owner agrees to provide Unison and its Customers access to and from the Easements and all other space in the Property consistent with the grant of the Easements set forth in Section 1 above, twenty-four (24) hours a day, seven (7) days a week.

8. Representations; Other Covenants of Site Owner. Site Owner represents, warrants and agrees that: (a) it is the legal owner of indefeasible and marketable title to the Property with the right, power and authority to enter into this Agreement and to grant the Easements to Unison, and any consents and authorizations required in connection with the execution and delivery of this Agreement have been obtained; (b) except for the Existing Agreements and as disclosed on Exhibit D, no leases, mortgages, deeds of trust or other encumbrances affect the Property as of the Effective Date; (c) Site Owner will comply with all governmental laws, rules and regulations applicable to the Property; (d) Site Owner has delivered to Unison true, correct and complete copies of the Existing Agreements, and, to Site Owner's best knowledge, no party is in default of any of their respective obligations under the Existing Agreements; (e) no party under the Existing Agreements has advised of any intention to exercise, nor have they exercised, any right of early termination set forth in its Existing Agreements, and further, no party has requested a reduction in the rental amount or escalator due under the Existing Agreements; (f) as of the Effective Date, Site Owner shall not, without the prior written consent of Unison, amend or modify the Existing Agreements in any respect or exercise any rights granted by Site Owner to Unison under this Agreement, including, without limitation, any and all rights and remedies of Site Owner under the Existing Agreements; (g) notwithstanding anything to the contrary in this Agreement, Site Owner shall comply with all obligations of the lessor under the Existing Agreements which relate to the use, ownership and operation of Property; and (h) Site Owner shall not use nor permit its affiliates, licensees, invitees or agents to use any portion of the Property or any other property owned or controlled by Site Owner, either directly, indirectly or by action or inaction, in a manner which in any way could result in default of the Existing Agreements or otherwise interfere with the operations of Unison and/or any Customers.

9. Environmental Covenants and Indemnity. Site Owner represents that it has not permitted or engaged in the use of, and has no knowledge of, any substance, chemical or waste (collectively "Substance") located on, under or about the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Neither Site Owner nor Unison will introduce or use any such Substance on, under or about the Property in violation of any applicable law or regulation. No underground storage tanks for petroleum or any other Substance, or underground piping or conduits, are or have previously been located on the Property, and no asbestos-containing insulation or products containing PCB or other Substances have been placed anywhere on the Property by Site Owner or, to Site Owner's knowledge, by any prior owner or user of the Property. Site Owner and Unison shall each defend, indemnify, protect and hold the other party harmless from and against all claims, costs, fines, judgments and liabilities, including attorney's fees and costs, arising out of or in connection with the presence, storage, use or disposal of any Substance on, under or about the Property caused by the acts, omissions or negligence of the indemnifying party and their respective agents, contractors and employees. The foregoing indemnity shall survive any termination of this Agreement.

10. General Indemnity. In addition to the Environmental Indemnity set forth above, Site Owner and Unison shall each indemnify, defend and hold the other harmless against any and all costs (including reasonable attorney's fees) and claims of liability or loss arising (a) due to the breach of any representation, warranty or covenant of such indemnifying party set forth herein; and (b) out of the use and/or occupancy of the Property and Easements by the indemnifying party. This indemnity shall not apply to any claims to the extent arising from the gross negligence or intentional misconduct of the indemnified party.

11. Assignment; Secured Parties. Unison has the unrestricted right to assign, mortgage or grant a security interest in all of Unison's interest in and to this Agreement and the Easements, and may assign this Agreement and the Easements to any such assignees, mortgagees or holders of security interests, including their successors and assigns ("Secured Party" or, collectively, "Secured Parties"). Site Owner agrees to notify Unison and Secured Parties (provided Unison has given Site Owner notice and contact information of Secured Parties) simultaneously of any default by Unison and give Secured Parties the same right to cure any default. If a termination, disaffirmation or rejection of this Agreement shall occur, pursuant to any laws (including any bankruptcy or insolvency laws), Site Owner will notify Secured Parties (provided Unison has given Site Owner notice and contact information of Secured Parties) promptly and Site Owner shall enter into a new easement agreement with any such Secured Party upon the same terms of this Agreement, without requiring the payment of any additional fees. If any Secured Party shall succeed to Unison's interest under this Agreement, such Secured Party shall have no obligation to cure and no liability for any defaults of Unison accruing prior to the date that such Secured Party succeeds to such interest. Site Owner will enter into modifications of this Agreement reasonably requested by any Secured Party. Site Owner hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Easements and/or the Facilities or any portion thereof.

12. Estoppel Certificate. At any time during the term hereof, each party shall have the right to deliver to the other a statement of such party certifying: (i) that this Agreement is unmodified and in full force and effect (or, if there have been modifications, stating the modifications and that the modified Agreement is in full force and effect); (ii) whether or not, to the best knowledge of the responding party, the requesting party is in default in performance of any of its obligations under this Agreement, and, if so, specifying each such default; (iii) that there are no amounts due to the responding party from the requesting party; and (iv) any other information reasonably requested concerning this Agreement (the "Estoppel Certificate"). In the event the responding party fails to dispute the Estoppel Certificate by delivery to the requesting party of a notice specifying the nature and circumstances of any matter in the Estoppel Certificate that is disputed by the responding party within ten (10) days of receipt of the Estoppel Certificate, then all matters specified in the Estoppel Certificate shall be deemed true and correct, and the Estoppel Certificate shall thereafter be binding on the Parties, Secured Party or any party designated by the requesting party, and all of such parties may thereafter rely on the Estoppel Certificate as a conclusive statement of fact by the responding party as to the matters set forth therein.

13. Additional Customers. It is the intent of the Parties to encourage the addition of Customers to the Property throughout and after the term hereof. Site Owner hereby irrevocably constitutes and appoints Unison as its true and lawful attorney-in-fact, with full power of substitution and resubstitution to negotiate and consummate leases, licenses and/or other agreements of use with Customers having a duration beyond the term of this Agreement. Site Owner ratifies and acknowledges the right of Unison to enter into such agreements, and the Property and Site Owner will be bound by such agreements throughout and after the termination of this Agreement for any reason. Site Owner acknowledges that all such agreements entered into by Unison shall survive the termination of this Agreement for any reason. Site Owner agrees that it shall not, directly or indirectly, divert or solicit the business of any of Unison's Customers on behalf of itself or on behalf of any third party. Unison shall have a right of first refusal to acquire, on the same terms and conditions offered by or to a third party, any interest in the Property or any portion thereof being transferred by Site Owner for wireless communication purposes such as described in Section 1 above. Site Owner shall, prior to granting or transferring such interest, notify Unison with a copy of the offer including the price and terms thereof. The foregoing is a continuing right in favor of Unison and shall not be extinguished by Unison's exercise or non-exercise of such right on one or more occasions. Upon the grant or transfer of the Property, or any portion thereof, to a third party, Site Owner shall immediately notify Unison in writing of such grant or transfer, with the name and address of the purchaser.

14. Condemnation. In the event of any condemnation of the Easements in whole or in part, Unison shall be entitled to file claims against the condemning authority for, and to receive, the value of the portion of the Property so taken on which the Easements are located, business dislocation expenses and any other award or compensation to which Unison may be legally entitled. Site Owner hereby assigns to Unison any such claims and agrees that any claims made by Site Owner will not reduce the claims made by Unison.

15. Covenant Running with the Land. The provisions of and covenants contained in this Agreement shall run with the land and shall bind and inure to the benefit of the Parties and their respective successors, heirs and assigns.

16. Dispute Resolution.

(a) If Unison fails to perform any of its obligations under this Agreement, Site Owner agrees to notify Unison and any Secured Parties, provided Unison has given Site Owner notice and contact information of Secured Parties, in writing of any default by Unison, and to give Unison and/or any Secured Parties the right to cure any default within a period of not less than sixty (60) days from Unison's receipt of the written default notice. If Unison or any Secured Parties shall fail to cure any default in accordance with this Section, Site Owner agrees that its only remedies for such default shall be specific performance or damages. Any and all damages for which Site Owner may be compensated is limited to the actual damages of Site Owner and Unison's liability shall be limited to its interest in the Property. In the event that any dispute or claim arises that could impair the use or possession of the Facilities by Unison or its Customers, Unison shall have the right to seek injunctive relief, without the necessity of posting a bond.

(b) Except as set forth in Section 16(a), in the event of any dispute arising out of this Agreement, the following dispute resolution process shall be followed: (i) upon a party's written notice of dispute to the other party, an authorized representative of the Site Owner and Unison shall, through a good faith negotiation, attempt to settle a written resolution within thirty (30) days and (ii) if such negotiation attempts fail, the dispute shall be submitted by the parties to a mutually agreed upon arbitrator for a binding and final arbitration decision in accordance with the rules of the American Arbitration Association ("AAA") and using the Federal Rules of Evidence and Civil Procedure. In the event the parties are unable to mutually agree to an arbitrator, each party shall select their own arbitrator, and each such arbitrator shall thereafter mutually agree on a third arbitrator, and the majority decision by all such arbitrators shall be final and binding on the parties. Each party shall pay one-half of all arbitrator professional fees and the prevailing party, in any proceedings under this Section 16, shall be entitled to recover all costs incurred in connection therewith, including legal fees.

17. Notices. All notices, requests, demands and other communications hereunder shall be in writing and shall be deemed given one (1) business day after posting with a nationally recognized overnight courier service, or the earlier of receipt or ten (10) days after posting by registered or certified mail, return receipt requested, to the addresses of Site Owner and Unison set forth on the signature page. Either party may change its notice address by providing a new recipient name and address by notice as set forth in this paragraph.

18. Miscellaneous. (a) This Agreement and all Exhibits attached hereto constitute the entire agreement and understanding of Site Owner and Unison with respect to the subject matter of this Agreement, and supersedes all offers, negotiations and any other written or verbal agreements; (b) any amendments to this Agreement must be in writing and executed by both parties; (c) this Agreement is governed by the laws of the State in which the Property is located; (d) if any term of this Agreement is found to be void or invalid, such provision shall be fully severable herefrom and such invalidity shall not affect the remaining terms of this Agreement, which shall continue in full force and effect, and this Agreement shall be reformed and construed as if such invalid provision had never been contained herein, and if possible, such provisions shall be reformed to the maximum extent permitted under applicable law to render same valid, operative and enforceable to reflect the intent of the Parties as expressed herein; (e) upon the request of Unison, Site Owner shall execute a Memorandum of this Agreement and such plats or surveys as deemed reasonably necessary by Unison for recordation in the public records of the County in which the Property is located; (f) the paragraph headings of this Agreement have been inserted for convenience of reference only, and shall in no way modify or restrict the terms of this Agreement; (g) Site Owner acknowledges that Unison has not provided any legal or tax advice to Site Owner in connection with the execution of this instrument; and (h) this Agreement may be executed in any number of counterparts, each of which shall, when executed, be deemed to be an original and all of which shall be deemed to be one and the same instrument.

19. Joinder Party. And now to these presents, intervenes Treasure Valley Collision Center L.L.C., who joins with Site Owner in entering into this Agreement and does hereby agree to be bound by all of the terms hereof and joins Site Owner in granting the easement to Unison and assigns all of its right, title and interest in the Existing Agreements to Unison in all respects.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first written above.

WITNESSES:

Print Name: _____

Print Name: _____

"SITE OWNER":

BLYNN PROPERTIES, L.L.C. *a/k/a LLCB*

By: _____

Print Name: Robert Allen Miller, Jr.

a/k/a Robert A. Miller, Jr.

Title: Member

Address: 8247 W. State Street

City: Garden City

State: Idaho

Zip: 83714

Tel: *208 853 2461*

Fax: *NA*

STATE OF IDAHO)

) ss.

COUNTY OF ADA)

On this *18th* day of *Aug*, in the year 2010, before me (here insert the name and quality of the officer), personally appeared Robert Allen Miller, Jr. a/k/a Robert A. Miller, Jr., known or identified to me to be the Member of the limited liability company that executed the instrument or the person who executed the instrument on behalf of said limited liability company and acknowledged to me that such limited liability company executed the same.

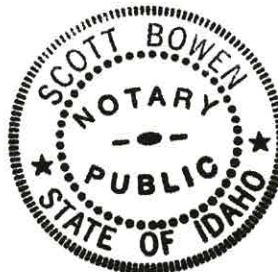
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Scott Bowen

Notary Public

Residing at *Boise*

My commission expires *11/14/12*



IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first written above.

WITNESSES:

"JOINDER PARTY":

Print Name: _____

Treasure Valley Collision Center L.L.C., an
Idaho limited liability company

Print Name: _____

By: [Signature]
Print Name: Robert Allen Miller, Jr.
Title: Manager

Address: 8247 West State Street
City: Boise
State: Idaho
Zip: 83714
Tel: 208 8530461
Fax: NA

STATE OF IDAHO)
) ss.
COUNTY OF ADA)

On this 18th day of Aug, in the year 2010, before me (here insert the name and quality of the officer), personally appeared Robert Allen Miller, Jr., known or identified to me to be the manager of the limited liability company that executed the instrument or the person who executed the instrument on behalf of said limited liability company and acknowledged to me that such limited liability company executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

[Signature: Scott Bowen]
Notary Public
Residing at Boise
My commission expires 11/14/12



IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first written above.

WITNESSES:

Print Name: TINO WONG

Print Name: MAISHA SMITH

"UNISON":

T6 UNISON SITE MANAGEMENT LLC,
a ~~Delaware limited liability company~~

By: [Signature]
Name: James R. Holmes
Title: Authorized Signatory

Address: P.O. Box 1951
City: Frederick
State: Maryland
Zip: 21702-0951
Tel: (646) 452-5455
Fax: (301) 360-0635

STATE OF NEW YORK)
) ss.
COUNTY OF NEW YORK)

On the 9TH day of AUGUST in the year of 2010, before me, the undersigned, a Notary Public in and for said state, personally appeared James R. Holmes, Authorized Signatory of T6 Unison Site Management LLC, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the individual or the entity upon behalf of which the individual acted, executed the instrument.

WITNESS my hand and official seal.

Signature: [Signature]
My Commission Expires: _____
Commission Number: _____

STEPHANIE NOVICK
Notary Public, State of New York
No. 01NO5035998
Qualified in New York County
Commission Expires Nov. 14, 2010

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

The following described premises, to-wit:

Lot 11 in Block 2 of Azalea Subdivision, according to the official plat thereof filed in Book 71 of Plats at Pages 7243 and 7244, records of Ada County, Idaho and amended by warranty deed recorded December 27, 1996 under Instrument No. 96106001.

AND BEING the same property conveyed to Treasure Valley Collision Center L.L.C., an Idaho limited liability company from Steven G. Gregory, a married man as his sole and separate property by Warranty Deed dated October 03, 2005 and recorded October 04, 2005 in Instrument No. 105148172; AND FURTHER CONVEYED to Blynn Properties, L.L.C., a limited liability company from Treasure Valley Collision Center, L.L.C. by Quitclaim Deed dated July 28, 2008 and recorded July 30, 2008 in Instrument No. 108086742.

Tax Parcel No. R0719420250

EXHIBIT B-1

COMMUNICATION EASEMENT

That portion of the Property on which any Facilities exist on the date of this Agreement together with the portion of the Property leased by Site Owner under the Existing Agreements, and the portion of the Property described as follows:

Commencing at the northeasterly corner of the Property at the southerly line of W. State Street; thence South, along the East line of said Property, 155.00 feet to a point; thence West and perpendicular to the last mentioned course, 10.00 feet to the southeasterly corner of the herein described Communication Easement and point of Beginning; thence continue West, 60.00 feet; thence North and perpendicular to the last mentioned course, 20.00 feet; thence East and perpendicular to the last mentioned course, 60.00 feet; thence South and perpendicular to the last mentioned course, 20.00 feet to the point of Beginning.

Site Owner herein agrees that this legal description may be substituted at a later date upon presentation of a survey of the property more clearly defining the location thereof.

Agreed and Approved:

Site Owner:

Blynn Properties, L.L.C. *a/k/a UCB*

By: 

Name: Robert Allen Miller, Jr. a/k/a Robert A. Miller, Jr.

Title: Member

Date: 8/18/2010

Joinder Party:

Treasure Valley Collision Center L.L.C.

By: 

Name: Robert Allen Miller, Jr.

Title: Manager

Date: 8/18/2010

Unison:

By:

Name: James R. Holmes

Title: Authorized Signatory

Date: 8/9/10

EXHIBIT B-2

ACCESS AND UTILITY EASEMENTS

That portion of the Property on which any Facilities exist on the date of this Agreement or provided by Site Owner under the Existing Agreements for access and utility providers, including the following:

All rights of ingress and egress across the Property, more fully described on Exhibit "A" hereof, to and from the Communication Easement described in Exhibit B-1 hereof, providing access to a publicly dedicated roadway, including but not limited to W. State Street (hereinafter the "Access Easement"), along with the right to use said Access Easement for the development, repair, maintenance and removal of utilities providing service to the Communication Easement and the Facilities, as defined herein, and any related activities and uses.

Site Owner herein agrees that this legal description may be substituted at a later date upon presentation of a survey of the property more clearly defining the location thereof.

Agreed and Approved:

Site Owner:

Blynn Properties, L.L.C. *a/k/a L.L.C. B*

By: 

Name: Robert Allen Miller, Jr. a/k/a Robert A. Miller, Jr.

Title: Member

Date: 8/18/2010

Joinder Party:

Treasure Valley Collision Center L.L.C.

By: 

Name: Robert Allen Miller, Jr.

Title: Manager

Date: 8/18/2010

Unison:

By: 

Name: James R. Holmes

Title: Authorized Signatory

Date: 8/9/10

EXHIBIT C

EXISTING AGREEMENTS

Site Owner assigns and transfers to Unison, as of the effective date herein, all of its right, title and interest in, to and under any existing lease agreements, and any amendments, transfers, modifications and/or assignments thereof, affecting any portion of the Property leased by Site Owner under any Existing Agreements, including, without limitation, the following:

1. That certain Site Lease With Option by and between Steven G. Gregory, as landlord, and VoiceStream PCS II Corporation, a Delaware corporation, as tenant, dated November 19, 2003, as assigned by Steven G. Gregory to Treasure Valley Collision Center, L.L.C., an Idaho limited liability company, by Assignment of Lease recorded on October 5, 2005 in Instrument No. 105148893.
2. That certain Communication Site Lease Agreement (Ground Space) by and between Steven G. Gregory, an unmarried person, as landlord, and Clearwire LLC, a Nevada limited liability company, as tenant, dated as of September 15, 2005, as assigned by Steven G. Gregory to Treasure Valley Collision Center, L.L.C., an Idaho limited liability company, by Assignment of Lease recorded on October 5, 2005 in Instrument No. 105148893.

Read, Agreed and Approved:

Site Owner:

Blynn Properties, L.L.C. *a/k/a LLCB*

By: 

Name: Robert Allen Miller, Jr. a/k/a Robert A. Miller, Jr.

Title: Member

Date: 8/18/2010

Joinder Party:

Treasure Valley Collision Center L.L.C.

By: 

Name: Robert Allen Miller, Jr.

Title: Manager

Date: 8/18/2010

Unison:

By:

Name: James R. Holmes

Title: Authorized Signatory

Date: 8/9/10

EXHIBIT D

TITLE ENCUMBRANCES

1. That certain Deed of Trust by Blynn Properties, LLC to Pioneer Title Co., as Trustee for the benefit of KeyBank National Association, in the amount of \$389,500.00 dated July 29, 2008 and recorded on July 30, 2008 in Document No. 108086743, together with that Assignment of Rents dated July 29, 2008 and recorded on July 30, 2008 in Instrument No. 108086745, Official Records of ADA County, Idaho, for which a Non-Disturbance Agreement has been executed in favor of Unison and recorded in Instrument No. 110086350 Official Records of Ada County, Idaho.

2. That certain Deed of Trust by Treasure Valley Collision Center L.L.C. to TitleOne Corporation, as Trustee for the benefit of Capital Matrix, Inc., in the amount of \$286,000.00 dated January 8, 2007 and recorded January 29, 2007, in Document No. 107013852, as assigned by the Assignment of Deed of Trust by Capital Matrix, Inc. to the Small Business Administration, dated January 8, 2007 and recorded January 29, 2007, in Document No. 107013853, and as subordinated by that certain Subordination Agreement in favor of KeyBank National Association, dated July 10, 2008 and recorded on July 30, 2008 in Document No. 108086744, together with the UCC Financing Statement recorded on January 29, 2007 in Instrument No. 107013851, Official Records of Ada County, Idaho, for which a Non-Disturbance Agreement has been executed in favor of Unison and recorded in Instrument No. 110086351, Official Records of Ada County, Idaho.