

ISSUE: Certificate of Appropriateness for alterations (small cell facility)

APPLICANT: Smartlink for AT&T Mobility

LOCATION: Old and Historic Alexandria District
Dominion Energy utility pole near 600 Franklin Street

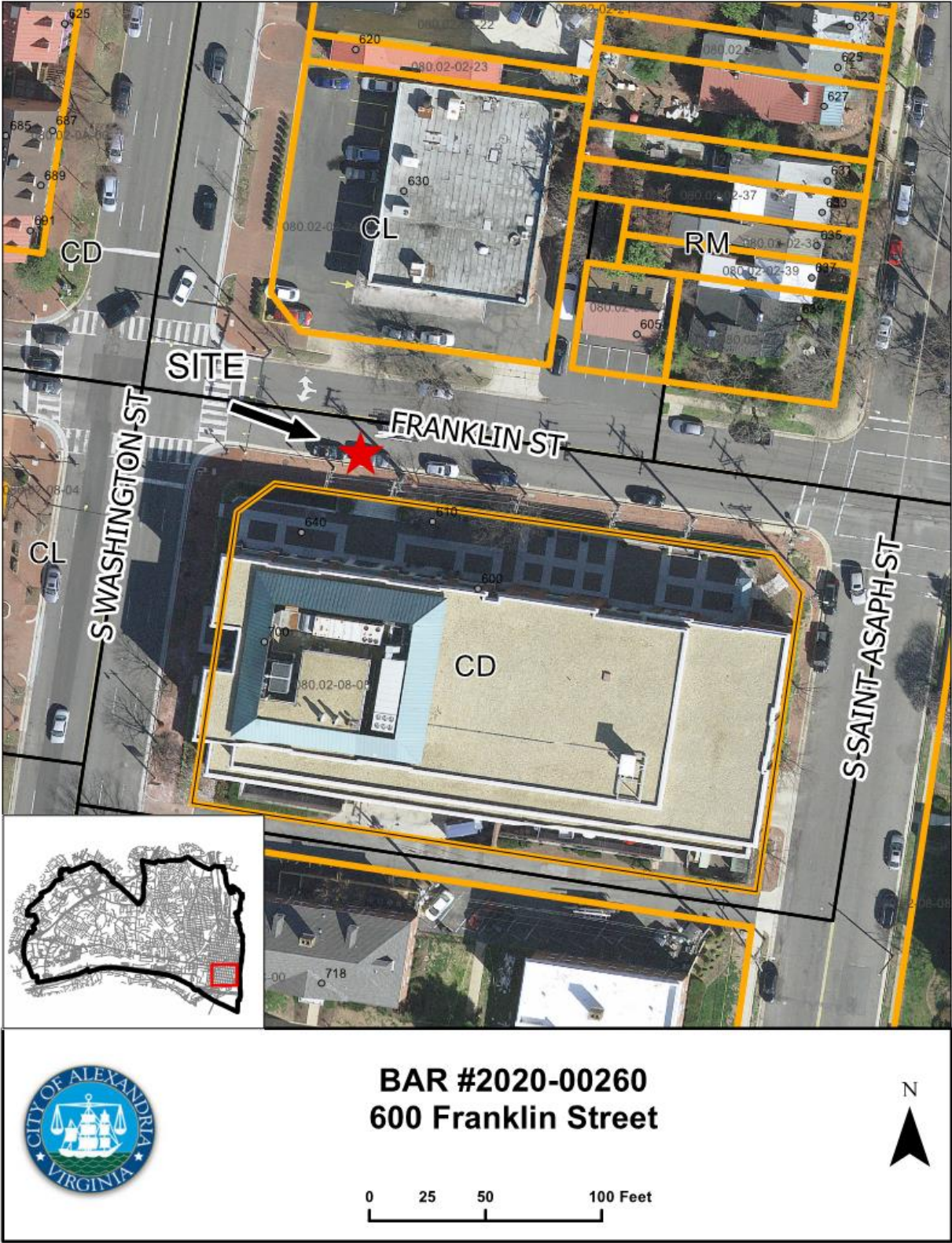
ZONE: CD/Commercial Downtown Zone

STAFF RECOMMENDATION

Staff recommends approval of the Certificate of Appropriateness, provided that prior to seeking a right-of-way permit the applicant demonstrates compliance the height requirements outlined in Section 7-1206(A)(8)(a)(ii) of the zoning ordinance.

GENERAL NOTES TO THE APPLICANT

1. **APPEAL OF DECISION:** In accordance with the Zoning Ordinance, if the Board of Architectural Review denies or approves an application in whole or in part, the applicant or opponent may appeal the Board's decision to City Council on or before 14 days after the decision of the Board.
2. **COMPLIANCE WITH BAR POLICIES:** All materials must comply with the BAR's adopted policies unless otherwise specifically approved.
3. **BUILDING PERMITS:** Most projects approved by the Board of Architectural Review require the issuance of one or more construction permits by Department of Code Administration (including signs). The applicant is responsible for obtaining all necessary construction permits after receiving Board of Architectural Review approval. Contact Code Administration, Room 4200, City Hall, 703-746-4200 for further information.
4. **ISSUANCE OF CERTIFICATES OF APPROPRIATENESS AND PERMITS TO DEMOLISH:** Applicants must obtain a copy of the Certificate of Appropriateness or Permit to Demolish PRIOR to applying for a building permit. Contact BAR Staff, Room 2100, City Hall, 703-746-3833, or preservation@alexandriava.gov for further information.
5. **EXPIRATION OF APPROVALS NOTE:** In accordance with Sections 10-106(B), 10-206(B) and 10-307 of the Zoning Ordinance, any Board of Architectural Review approval will expire 12 months from the date of issuance if the work is not commenced and diligently and substantially pursued by the end of that 12-month period.
6. **HISTORIC PROPERTY TAX CREDITS:** Applicants performing extensive, certified rehabilitations of historic properties may separately be eligible for state and/or federal tax credits. Consult with the Virginia Department of Historic Resources (VDHR) prior to initiating any work to determine whether the proposed project may qualify for such credits.



I. APPLICANT'S PROPOSAL

The applicant is requesting a Certificate of Appropriateness to replace the existing wood pole in the right-of-way in front of the parcel at 600 Franklin with a new wood pole.

- The existing 37'5" high pole will be replaced with a new 48' high pole installed within 2' of the existing pole.
- 4G small cell facility measuring approximately 3'4" high will be mounted on top of the pole.
- AT&T wireless equipment cabinet, meter box and fiber demark panel will be mounted on the pole.
- Cubic volume of the antennas is 1.13.
- Cubic volume of associated equipment is 12.91.
- All features of the wireless facility will be colored matched to the pole.
- All existing utilities, fixtures and signage on the pole will be relocated to the new pole.

Site context

The utility pole is in the right-of-way in front of 600 Franklin Street near the intersection with South Washington Street. Most buildings at this intersection are modern, with the exception of the art deco Suburban Cleaner located across Franklin Street.

II. HISTORY

600 Franklin Street is a brick, three-story office and retail building constructed in **1987** (BAR Case #87-127, 11/4/87).

III. ANALYSIS

To address the growing demand for wireless services across the United States, telecommunication providers are increasing the capacity of their networks by deploying small cell wireless facilities within the public right-of-way to reduce the data traffic load on roof-mounted equipment and larger cell towers. Small cell facilities are low-powered antennas that provide wireless service coverage to a limited geographic area (often with ranges of a few hundred feet) and are used to supplement and expand the coverage provided by the traditional, larger-scale network. The next generation of small cell wireless facilities, known as 5G, is currently being installed across the city. The new 5G networks will not just serve cellphones, but also be used as general internet service providers for laptops, desktop computers, smart home digital devices, urban infrastructure monitoring, smart traffic control, remote health monitoring, emergency monitoring and notification systems, connected and autonomous vehicles, and many more applications.

In the past several years, Federal and State legislation has been enacted to further streamline the local approval process for cellular facilities, shortening the approval time and limiting jurisdictions' authority. In 2017, and again in March 2020, City Council approved amendments to the zoning ordinance to ensure compliance with these laws.

In June 2019, the BAR approved the first small cell facilities in the historic district and shortly after adopted a BAR administrative policy for approval of certain small cell facilities (4G) in the historic districts. City Council has recently approved license agreements for some of the wireless carriers and the City has seen a sharp increase in the number of applications for small cell facilities. Because the design of the antennas has evolved since the BAR administrative policy was adopted in June 2019, BAR staff proposed amendments to the policy to allow for more administrative approvals at the Board's April 22, 2020 electronic hearing (conducted electronically due to the Covid-19 emergency) at which time the Board tabled proposed amendments and rescinded the administrative policy. As a result, at this time all small cell facilities must now be approved by the BAR at public hearing.

A Certificate of Appropriateness is required in the historic districts under Section 10-103 (A) and 203(A) of the zoning ordinance, which state that "No building or structure shall be erected, reconstructed, altered or restored within the Old and Historic Alexandria District unless and until an application for a certificate of appropriateness shall have been approved..." BAR staff has no objection to the modestly taller pole or the installation of the small cell facility equipment in this location and finds that color matching the equipment and antennas the same color as the pole will help to camouflage them.

The existence of utility poles and overhead wires, street signs, and light poles in the rights of way are part of the urban streetscape, and staff does not believe that the installation of the modestly taller pole with the small cell equipment and an overall height of 51'4" will adversely impact the integrity of the historic district. However, staff notes that the top of the proposed small cell facility is over the 50' height limit. Section 7-1206(A)(8)(a)(ii) of the zoning ordinance does allow for taller poles if they are "mounted on structures no more than ten percent taller than other adjacent structures". Prior to applying for a right-of-way permit, the applicant must demonstrate compliance with the zoning ordinance. As part of the right-of-way permit process, T&ES staff will inspect the location and develop specific conditions pertaining to all small cell facilities, considering such things as ADA accessibility, sidewalk widths, tree conflicts and location of equipment boxes.

Therefore, staff recommends approval of the Certificate of Appropriateness with the condition noted above.

STAFF

Stephanie Sample, Historic Preservation Planner, Planning & Zoning

Tony LaColla, AICP, Land Use Services Division Chief, Planning & Zoning

IV. CITY DEPARTMENT COMMENTS

Legend: C- code requirement R- recommendation S- suggestion F- finding

Zoning

- F-1 Height of the pole shall not exceed 50.00 feet without a Special Use Permit.
Pole height indicates that the height is greater than 50.00 feet. The applicant will need to show that the structure is no more than 10 percent of other structures. In addition, the Board of Architecture Review has requested that all Small Cell antennas must come through the Board as they have rescinded the ability of an administrative review.
- F-2 Pole must be in the same general location as existing pole.
In Compliance
- F-3 The replacement pole is not located in a manner that requires the removal of an existing tree or impacts of root zone.
No tree nearby.
- F-4 Replacement people shall be located that meets ADA requirements that do not impede or hinder pedestrian or vehicular travel.
In Compliance
- F-5 Wireless facility shall be painted to match similar infrastructure on the block or earth tone color.
Plans indicate facility to be shrouded to match the color; however, the color appears to be silver.

Per Section 7-1206(A)(8), states the following:

- (a) The facilities:
- (i) Are mounted on structures 50 feet or less in height including their antennas; or
 - (ii) Are mounted on structures no more than ten percent taller than other adjacent structures;
or
 - (iii) Do not extend existing structures on which they are located to a height of more than 50 feet or by more than ten percent, whichever is greater;

Pole height indicates that the height is greater than 50.00 feet. The applicant will need to show that the structure is no more than 10 percent of other structures. In addition, the Board of Architecture Review has requested that all Small Cell antennas must come through the Board as they have rescinded the ability of an administrative review.

Code Administration

F-1 No Code comment.

Transportation and Environmental Services

CONDITIONS

- R-1 The building permit must be approved and issued prior to the issuance of any permit for demolition, if a separate demolition permit is required. (T&ES)
- R-2 Applicant shall be responsible for repairs to the adjacent city right-of-way if damaged during construction activity. (T&ES)
- R-3 No permanent structure may be constructed over any existing private and/or public utility easements. It is the responsibility of the applicant to identify any and all existing easements on the plan. (T&ES)

FINDINGS:

- F-1 After review of the information provided, an approved grading plan is not required at this time. Please note that if any changes are made to the plan it is suggested that T&ES be included in the review. (T&ES)
- F-2 If the alley located at the rear of the parcel is to be used at any point of the construction process the following will be required:
For a Public Alley - The applicant shall contact T&ES, Construction Permitting & Inspections at (703) 746-4035 to discuss any permits and accommodation requirements that will be required.
For a Private Alley - The applicant must provide proof, in the form of an affidavit at a minimum, from owner of the alley granting permission of use. (T&ES)

CODE REQUIREMENTS

- C-1 The applicant shall comply with the City of Alexandria's Solid Waste Control, Title 5, Chapter 1, which sets forth the requirements for the recycling of materials (Sec. 5-1-99). (T&ES)
- C-2 The applicant shall comply with the City of Alexandria's Noise Control Code, Title 11, Chapter 5, which sets the maximum permissible noise level as measured at the property line. (T&ES)
- C-3 All secondary utilities serving this site shall be placed underground. (Sec. 5-3-3) (T&ES)
- C-4 Any work within the right-of-way requires a separate permit from T&ES. (Sec. 5-2) (T&ES)

C-5 All improvements to the city right-of-way such as curbing, sidewalk, driveway aprons, etc. must be city standard design. (Sec. 5-2-1) (T&ES)

Alexandria Archaeology

F-1 No archaeological oversight necessary.

V. ATTACHMENTS

1 – Supplemental Materials

2 – Application for BAR 2020-00260: near 600 Franklin Street

ADDRESS OF PROJECT: 600 Franklin StreetDISTRICT: ☒ Old & Historic Alexandria ☐ Parker – Gray ☐ 100 Year Old BuildingTAX MAP AND PARCEL: 080.02-08-05ZONING: CDAPPLICATION FOR: *(Please check all that apply)*☒ CERTIFICATE OF APPROPRIATENESS☐ PERMIT TO MOVE, REMOVE, ENCAPSULATE OR DEMOLISH
(Required if more than 25 square feet of a structure is to be demolished/impacted)☐ WAIVER OF VISION CLEARANCE REQUIREMENT and/or YARD REQUIREMENTS IN A VISION
CLEARANCE AREA (Section 7-802, Alexandria 1992 Zoning Ordinance)☐ WAIVER OF ROOFTOP HVAC SCREENING REQUIREMENT
*(Section 6-403(B)(3), Alexandria 1992 Zoning Ordinance)*Applicant: ☐ Property Owner ☒ Business *(Please provide business name & contact person)*Name: AT&T MobilityAddress: 7150 Standard DriveCity: Hanover State: MD Zip: 21076

Phone: _____ E-mail : _____

Authorized Agent *(if applicable)*: ☐ Attorney ☐ Architect ☒ ContractorName: SmartlinkPhone: 443-690-2926E-mail: alex.miller@smartlinkgroup.com**Legal Property Owner:**Name: Dominion EnergyAddress: 3072 Centreville RoadCity: Herndon State: VA Zip: 20171Phone: _____ E-mail: austin.d.gore@dominionenergy.com

- ☐ Yes ☒ No Is there an historic preservation easement on this property?
- ☐ Yes ☒ No If yes, has the easement holder agreed to the proposed alterations?
- ☐ Yes ☒ No Is there a homeowner's association for this property?
- ☐ Yes ☐ No If yes, has the homeowner's association approved the proposed alterations?

If you answered yes to any of the above, please attach a copy of the letter approving the project.

NATURE OF PROPOSED WORK: *Please check all that apply*

- ☐ NEW CONSTRUCTION
☒ EXTERIOR ALTERATION: *Please check all that apply.*
 ☐ awning ☐ fence, gate or garden wall ☐ HVAC equipment ☐ shutters
 ☐ doors ☐ windows ☐ siding ☐ shed
 ☐ lighting ☐ pergola/trellis ☐ painting unpainted masonry
 ☒ other Utility Pole/Small Cell Installation
☐ ADDITION
☐ DEMOLITION/ENCAPSULATION
☐ SIGNAGE

DESCRIPTION OF PROPOSED WORK: *Please describe the proposed work in detail (Additional pages may be attached).*

Add an Antenna and an Equipment Shroud to a Utility Pole. All equipment will be painted to match the pole.

SUBMITTAL REQUIREMENTS:

Items listed below comprise the **minimum supporting materials** for BAR applications. Staff may request additional information during application review. Please refer to the relevant section of the *Design Guidelines* for further information on appropriate treatments.

Applicants must use the checklist below to ensure the application is complete. Include all information and material that are necessary to thoroughly describe the project. Incomplete applications will delay the docketing of the application for review. Pre-application meetings are required for all proposed additions. All applicants are encouraged to meet with staff prior to submission of a completed application.

Electronic copies of submission materials should be submitted whenever possible.

Demolition/Encapsulation : *All applicants requesting 25 square feet or more of demolition/encapsulation must complete this section. Check N/A if an item in this section does not apply to your project.*

- N/A
- ☐ ☐ Survey plat showing the extent of the proposed demolition/encapsulation.
☐ ☐ Existing elevation drawings clearly showing all elements proposed for demolition/encapsulation.
☐ ☐ Clear and labeled photographs of all elevations of the building if the entire structure is proposed to be demolished.
☐ ☐ Description of the reason for demolition/encapsulation.
☐ ☐ Description of the alternatives to demolition/encapsulation and why such alternatives are not considered feasible.

Additions & New Construction: *Drawings must be to scale and should not exceed 11" x 17" unless approved by staff. All plans must be folded and collated into 3 complete 8 1/2" x 11" sets. Additional copies may be requested by staff for large-scale development projects or projects fronting Washington Street. Check N/A if an item in this section does not apply to your project.*

- ☐ ☐ N/A Scaled survey plat showing dimensions of lot and location of existing building and other structures on the lot, location of proposed structure or addition, dimensions of existing structure(s), proposed addition or new construction, and all exterior, ground and roof mounted equipment.
- ☐ ☐ FAR & Open Space calculation form.
- ☐ ☐ Clear and labeled photographs of the site, surrounding properties and existing structures, if applicable.
- ☐ ☐ Existing elevations must be scaled and include dimensions.
- ☐ ☐ Proposed elevations must be scaled and include dimensions. Include the relationship to adjacent structures in plan and elevations.
- ☐ ☐ Materials and colors to be used must be specified and delineated on the drawings. Actual samples may be provided or required.
- ☐ ☐ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☐ ☐ For development site plan projects, a model showing mass relationships to adjacent properties and structures.

Signs & Awnings: *One sign per building under one square foot does not require BAR approval unless illuminated. All other signs including window signs require BAR approval. Check N/A if an item in this section does not apply to your project.*

- ☐ ☐ N/A Linear feet of building: Front: _____ Secondary front (if corner lot): _____.
- ☐ ☐ Square feet of existing signs to remain: _____.
- ☐ ☐ Photograph of building showing existing conditions.
- ☐ ☐ Dimensioned drawings of proposed sign identifying materials, color, lettering style and text.
- ☐ ☐ Location of sign (show exact location on building including the height above sidewalk).
- ☐ ☐ Means of attachment (drawing or manufacturer's cut sheet of bracket if applicable).
- ☐ ☐ Description of lighting (if applicable). Include manufacturer's cut sheet for any new lighting fixtures and information detailing how it will be attached to the building's facade.

Alterations: *Check N/A if an item in this section does not apply to your project.*

- ☒ ☐ N/A Clear and labeled photographs of the site, especially the area being impacted by the alterations, all sides of the building and any pertinent details.
- ☐ ☒ Manufacturer's specifications for materials to include, but not limited to: roofing, siding, windows, doors, lighting, fencing, HVAC equipment and walls.
- ☒ ☐ Drawings accurately representing the changes to the proposed structure, including materials and overall dimensions. Drawings must be to scale.
- ☐ ☒ An official survey plat showing the proposed locations of HVAC units, fences, and sheds.
- ☐ ☒ Historic elevations or photographs should accompany any request to return a structure to an earlier appearance.

ALL APPLICATIONS: *Please read and check that you have read and understand the following items:*

- ☒ I have submitted a filing fee with this application. (Checks should be made payable to the City of Alexandria. Please contact staff for assistance in determining the appropriate fee.)
- ☐ I understand the notice requirements and will return a copy of the three respective notice forms to BAR staff at least five days prior to the hearing. If I am unsure to whom I should send notice I will contact Planning and Zoning staff for assistance in identifying adjacent parcels.
- ☒ I, the applicant, or an authorized representative will be present at the public hearing.
- ☒ I understand that any revisions to this initial application submission (including applications deferred for restudy) must be accompanied by the BAR Supplemental form and 3 sets of revised materials.

The undersigned hereby attests that all of the information herein provided including the site plan, building elevations, prospective drawings of the project, and written descriptive information are true, correct and accurate. The undersigned further understands that, should such information be found incorrect, any action taken by the Board based on such information may be invalidated. The undersigned also hereby grants the City of Alexandria permission to post placard notice as required by Article XI, Division A, Section 11-301(B) of the 1992 Alexandria City Zoning Ordinance, on the property which is the subject of this application. The undersigned also hereby authorizes the City staff and members of the BAR to inspect this site as necessary in the course of research and evaluating the application. The applicant, if other than the property owner, also attests that he/she has obtained permission from the property owner to make this application.

APPLICANT OR AUTHORIZED AGENT:

Signature: Alex Miller

Printed Name: Alex Miller

Date: 05/28/2020

OWNERSHIP AND DISCLOSURE STATEMENT

Use additional sheets if necessary

1. Applicant. State the name, address and percent of ownership of any person or entity owning an interest in the applicant, unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1. AT&T Mobility	7150 Standard Drive	100%
2.		
3.		

2. Property. State the name, address and percent of ownership of any person or entity owning an interest in the property located at 600 Franklin Street (address), unless the entity is a corporation or partnership, in which case identify each owner of more than three percent. The term ownership interest shall include any legal or equitable interest held at the time of the application in the real property which is the subject of the application.

Name	Address	Percent of Ownership
1. Dominion Energy	600 Franklin Street	100%
2.		
3.		

3. Business or Financial Relationships. Each person or entity listed above (1 and 2), with an ownership interest in the applicant or in the subject property is required to disclose **any** business or financial relationship, as defined by Section 11-350 of the Zoning Ordinance, existing at the time of this application, or within the 12-month period prior to the submission of this application with any member of the Alexandria City Council, Planning Commission, Board of Zoning Appeals or either Boards of Architectural Review.

Name of person or entity	Relationship as defined by Section 11-350 of the Zoning Ordinance	Member of the Approving Body (i.e. City Council, Planning Commission, etc.)
1. n/a		
2.		
3.		

NOTE: Business or financial relationships of the type described in Sec. 11-350 that arise after the filing of this application and before each public hearing must be disclosed prior to the public hearings.

As the applicant or the applicant's authorized agent, I hereby attest to the best of my ability that the information provided above is true and correct.

5/28/2020 Alex Miller _____
 Date Printed Name Signature



To whom it may concern,

This letter is to confirm that NEW CINGULAR WIRELESS SERVICES, INC. d/b/a AT&T has an executed facilities license agreement with Virginia Electric and Power Company d/b/a Dominion Energy Virginia (DEV) for wireless attachments on DEV owned distribution poles in the State of Virginia. NEW CINGULAR /AT&T attachments must conform to DEV technical parameters. DEV does not license, apportion, convey, or otherwise transfer to NEW CINGULAR /AT&T any Land Use Right of any sort that DEV may hold, nor does DEV make any representation or warranty as to the status or availability of any Land Use Right of any sort that may be required for NEW CINGULAR /AT&T to make use of any Distribution Pole for any purpose, including without limitation any Land Use Right(s) necessary for placement and maintenance of NEW CINGULAR /AT&T attachments upon any Distribution Pole or for lawful ingress or egress to and from Distribution Poles. Land Use Rights means all licenses, permits, rights (including, but not limited to, licenses, easements or other appropriate agreements from the owners of lands upon which the Attachments will be located or overhang), variances, zoning, or other approvals, and including DEV Real Estate Rights.

Regards,

A handwritten signature in black ink, appearing to read "Jarred Lampé", written over a horizontal line.

Jarred Lampé
Joint-Use Administrator
Joint-Utilities, Northern Region
Dominion Energy Virginia
3072 Centreville Road
Herndon, VA 20171



SITE NAME: CRAN_RWSH_ALEXA_064A
FA#: 14812426
USID: 288196
HUB FA#: 14510358
SITE ADDRESS:
600 FRANKLIN STREET
ALEXANDRIA, VA 22314
PROJECT NAME:
AT&T C-RAN



7150 STANDARD DRIVE,
HANOVER, MD 21076



1362 MELLON ROAD, SUITE 140
HANOVER, MD 21076



Speed, Quality, Credibility
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES
ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	04/07/20	FOR REVIEW	DHR
B	04/10/20	UPDATED AS PER REMARK	DHR
0	05/08/20	ISSUE FOR CONSTRUCTION	DHR

SITE INFORMATION

SITE NAME:
CRAN_RWSH_ALEXA_064A
SITE ADDRESS:
600 FRANKLIN STREET
ALEXANDRIA, VA 22314
COUNTY:
FAIRFAX COUNTY



5-8-2020

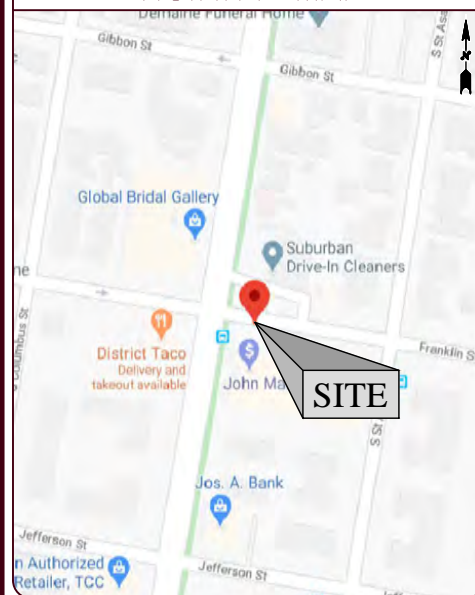
SHEET DESCRIPTION

TITLE SHEET

SHEET NO.

T-1

VICINITY MAP



POLE PHOTO



PROJECT INFORMATION

SITE INFORMATION:

LATITUDE: 38.798111° / 38° 47' 53.2" N
LONGITUDE: -77.048167° / 77° 02' 53.4" W
JURISDICTION: ALEXANDRIA COUNTY
PROPOSED USE: UNMANNED TELECOM FACILITY
HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
ZONING: COMMERCIAL
GROUND ELEVATION: 387' A.M.S.L.
CONSTRUCTION TYPE: UNKNOWN
USE GROUP: II-B
STRUCTURE TYPE: WOODEN UTILITY POLE
POWER: DOMINION ENERGY
TELCO: VERIZON

APPLICANT/LESSEE:

COMPANY: AT&T
ADDRESS: 7150 STANDARD DRIVE
CITY, STATE, ZIP: HANOVER, MD 21076

POLE OWNER:

COMPANY: DOMINION ENERGY
POLE NUMBER: TF90
ADDRESS: 3072 CENTREVILLE ROAD
CITY, STATE, ZIP: HERNDON, VA 20171
CONTACT: AUSTIN GORE
EMAIL: AUSTIN.D.GORE@DOMINIONENERGY.COM
TEL: 571-203-5259

CLIENT REPRESENTATIVE:

COMPANY: SMARTLINK
ADDRESS: 1362 MELLON ROAD, SUITE 140
CITY, STATE, ZIP: HANOVER, MD 21076
CONTACT: ALEX MILLER
EMAIL: ALEX.MILLER@SMARTLINKLLC.COM

A&E ENGINEER:

COMPANY: TRYLON TSF
ADDRESS: 1825 W. WALNUT HILL LANE, SUITE 120
CITY, STATE, ZIP: IRVING, TX 75038
CONTACT: KATYA SERAVALLE
EMAIL: KATYA.SERAVALLE@TRYLON.COM

SCOPE OF WORK

- REPLACE EXISTING WOOD POLE WITH PROPOSED WOODEN POLE
- INSTALL (1) GALTRONICS GQ2410-08621 POLE TOP CANISTER ANTENNA
- INSTALL (2) NOKIA MICRO RRH IN NEW CHARLES SHROUD AT EL. 13'-0"
- INSTALL (1) STANDARD 100AMP METER CAN
- INSTALL (1) 100 AMP MAIN BREAKER
- INSTALL (1) 1-1/4" CONDUIT FOR ELECTRICAL
- INSTALL (1) 3" U-GUARD FOR CABLE RUN
- INSTALL (2) HANDHOLE
- INSTALL (1) 2" CONDUIT FOR FIBER

SHEET INDEX

SHEET #	DESCRIPTION	REV #
T-1	TITLE SHEET	B
C-1	SITE PLAN	B
C-2	EXISTING / PROPOSED ELEVATION VIEWS	B
D-1	EQUIPMENT DETAILS	B
D-2	EQUIPMENT DETAILS	B
D-3	EQUIPMENT DETAILS	B
D-4	PLUMBING / GENERAL WIRING DIAGRAM	B
G-1	GROUNDING DETAILS	B

DRIVING DIRECTIONS

FROM 7150 STANDARD DRIVE, HANOVER, MD 21076:

- GET ON MD-100 E FROM STANDARD DR, PARK CIR DR AND COCA COLA DR
- TAKE BALTIMORE-WASHINGTON PKWY, STATE HWY 295 AND I-295 TO US-1 N/S PATRICK ST IN ALEXANDRIA. TAKE EXIT 177B-177C FROM I-495 S/I-95 S
- CONTINUE ON US-1 N/S PATRICK ST. DRIVE TO FRANKLIN S

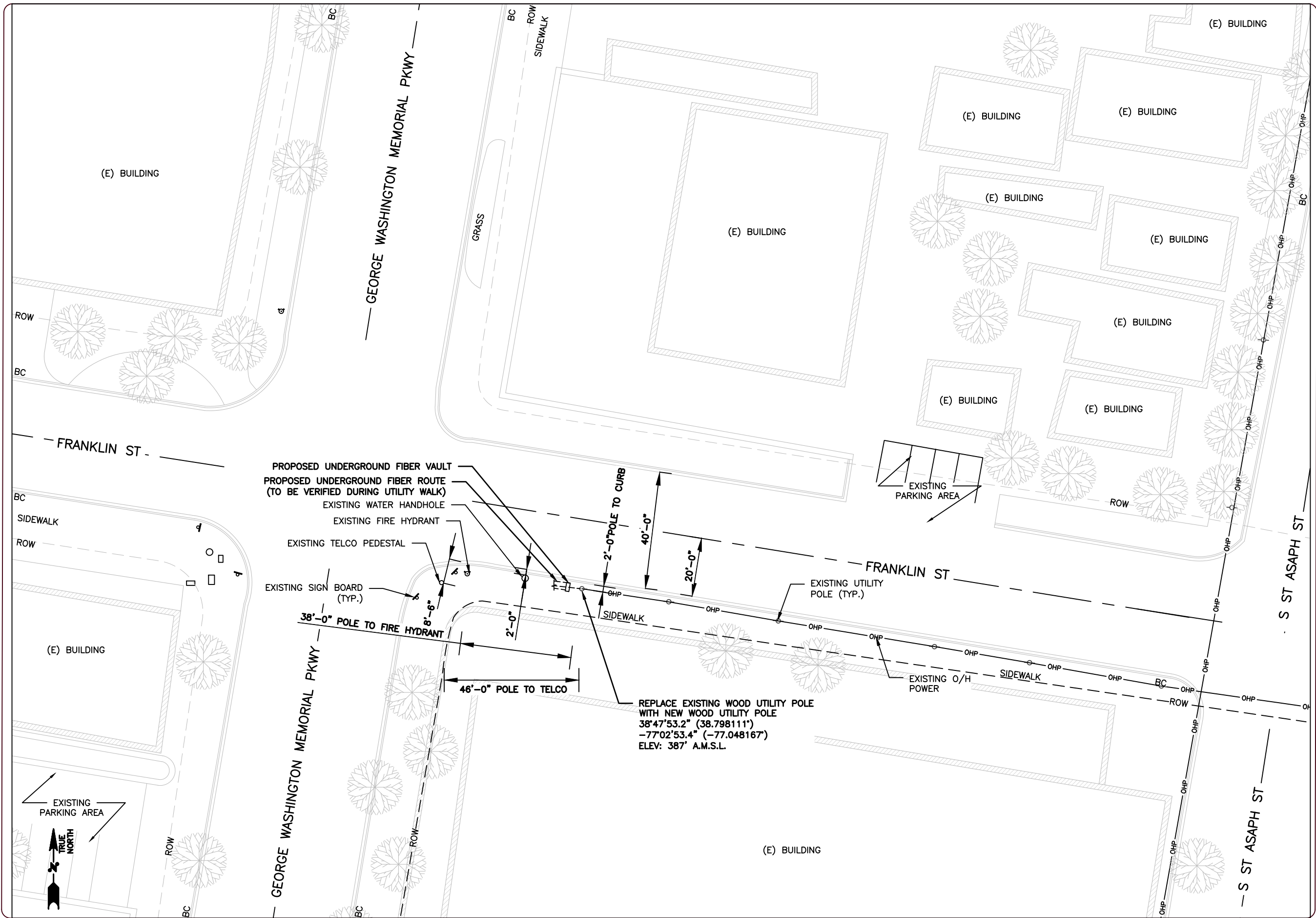
APPLICABLE BUILDING CODE & STANDARDS

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

- 2018 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE - NFPA 70
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2018 LIFE SAFETY CODE - NFPA 101
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10
- AMERICAN CONCRETE INSTITUTE
- ANSI/TIA-222-H
- TIA 607 FOR GROUNDING
- TELCORDIA GR-1275
- AT&T JOB AIDE



IF YOU DIG IN ANY STATE DIAL 811
FOR THE LOCAL "ONE CALL CENTER"
IT'S THE LAW



1 SITE PLAN
C-1 SCALE: 1"=30'



7150 STANDARD DRIVE,
HANOVER, MD 21076



1362 MELLON ROAD, SUITE 140
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COUNTY:
FAIRFAX COUNTY



5-8-2020

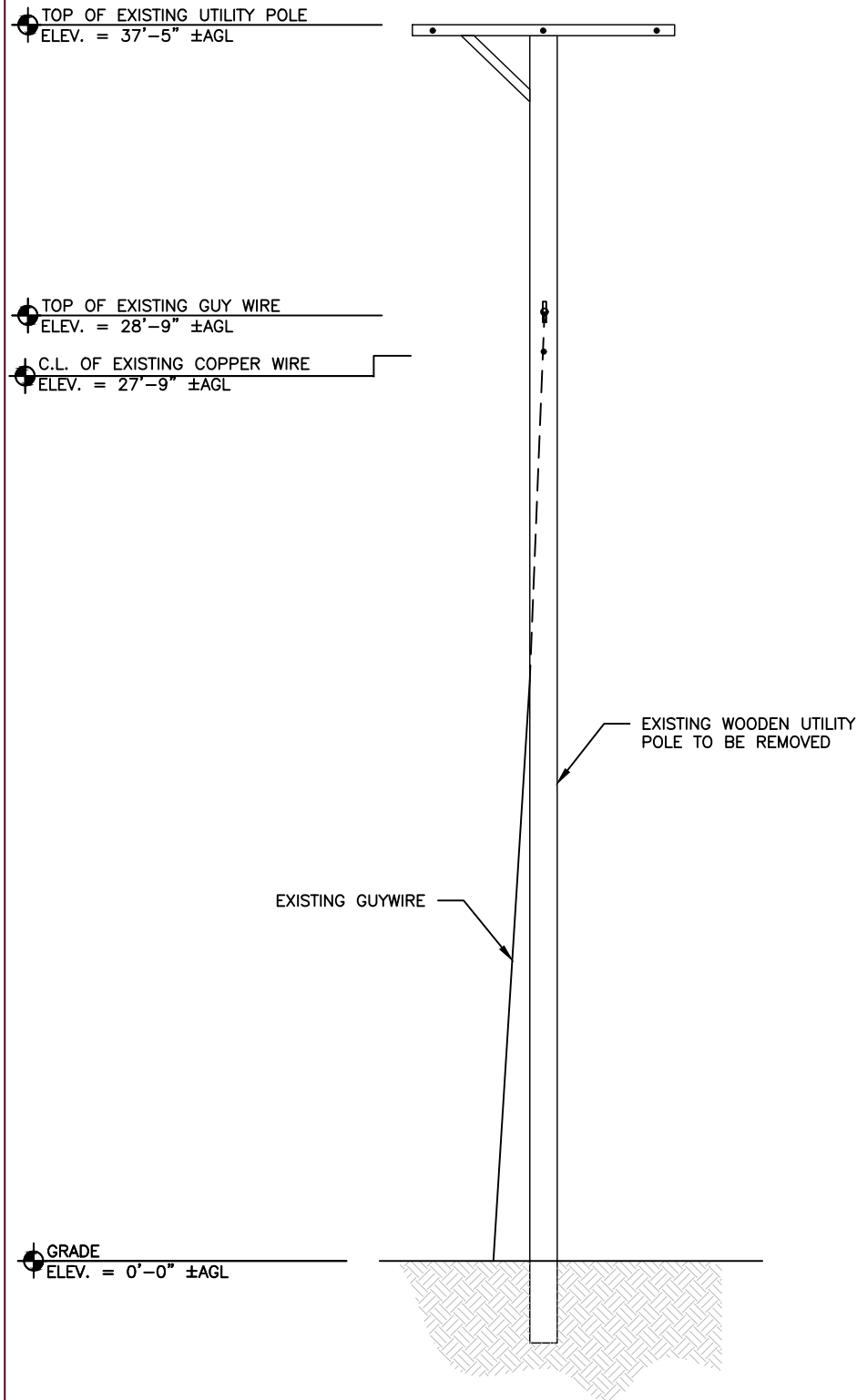
SHEET DESCRIPTION

SITE PLAN

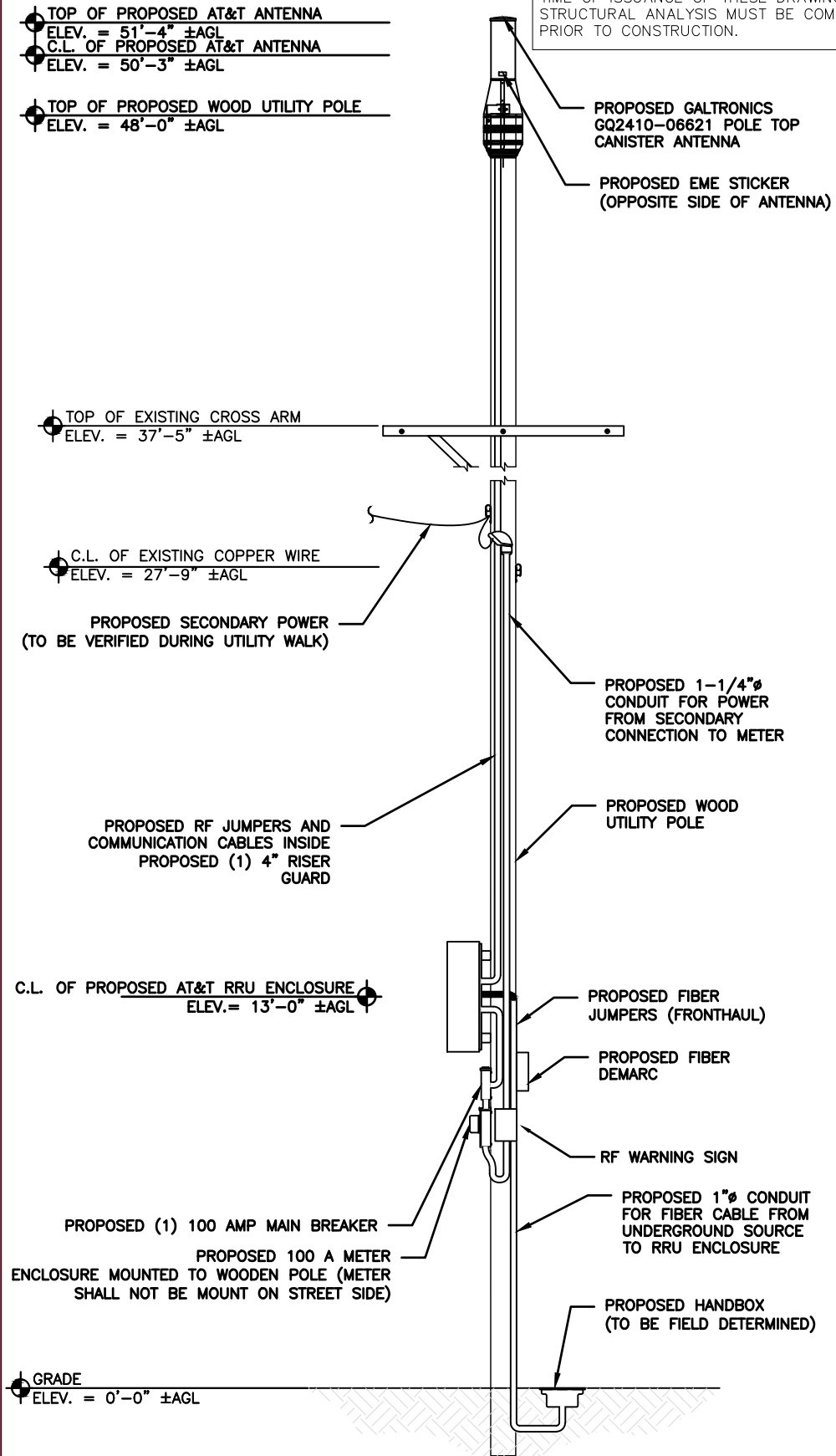
SHEET NO.

C-1

1
C-2
EXISTING ELEVATION PHOTO
SCALE: NTS



2
C-2
EXISTING ELEVATION
SCALE: 3/16"=1'-0"



3
C-2
PROPOSED ELEVATION
SCALE: 3/16"=1'-0"



7150 STANDARD DRIVE,
HANOVER, MD 21076



1362 MELLON ROAD, SUITE 140
HANOVER, MD 21076



Speed, Quality, Credibility
1825 W. WALNUT HILL LANE, SUITE 120
IRVING, TEXAS 75038

DRAWING SCALES ARE INTENDED FOR 11"x17" SIZE
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SUBMITTALS			
REV	DATE	DESCRIPTION	BY
A	04/07/20	FOR REVIEW	DHR
B	04/10/20	UPDATED AS PER REMARK	DHR
0	05/08/20	ISSUE FOR CONSTRUCTION	DHR

SITE INFORMATION

SITE NAME:
CRAN_RWSH_ALEXA_064A

SITE ADDRESS:
600 FRANKLIN STREET
ALEXANDRIA, VA 22314

COUNTY:
FAIRFAX COUNTY



5-8-2020

SHEET DESCRIPTION

EXISTING / PROPOSED
ELEVATION VIEWS

SHEET NO.

C-2



2" Pseudo Omni 10-Port Canister Antenna (1695-2360, 3550-3700 and 5150-5925 MHz)

GQ2410-06621

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for U-NII Band 5150-5925 MHz*



*Compliant to 789033 D02 General U-NII Test Procedures New Rules v01r04: The antenna meets current U-NII-1 requirements for gain and upper side-lobe performance. Guidelines for Compliance Testing of Unlicensed National Information

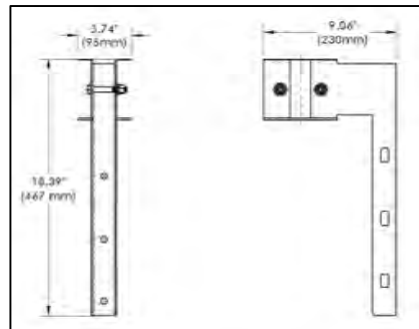
Electrical Specifications

Frequency Band [MHz]	1695-2180	2305-2360	3550-3700	5150-5925
Input Connector Type	4x 4.3-10 (F)	4x 4.3-10 (F)	2x 4.3-10 (F)	
Isolation (Typ.)		20 dB		
VSWR/Return Loss (Typ.)		1.5:1 / 14.0 dB		
Impedance		50 Ω		
Polarization		Dual slant 45° (±45°)		
Horizontal Beamwidth		Omni (360°)		
Vertical Beamwidth	19°	15.4°	18.7°	23.0°
Max. Gain	8.9 dBi	8.3 dBi	8.0 dBi	5.5 dBi
Avg. Gain	7.7 dBi	7.9 dBi	7.8 dBi	4.7 dBi
Downlink		0° Fixed		
Max Power / Port	100 Watts		50 Watts	1 Watt
PIIM @ 2x43 dBm	<-153 dBc		N/A	N/A

Mechanical Specifications

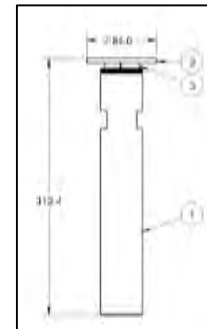
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	16.3 lbs (7.4 kg)
Antenna Dimension (Diameter x Height)	10.0" (255 mm) x 24.0" (634 mm)
Radome Material	ASA
Radome Color	Gray, Brown, Black, 3M™ Conceal Film
Ingress Protection	Outdoor (IP65)
Wind Survival Rating	150 mph (241 km/h)

1 GALTRONICS — GQ2410-06621 ANTENNA
D-1 SCALE: NTS



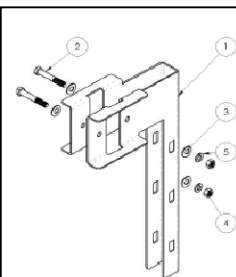
Specifications	
Model Number	MK-06479
Environmental Conditions	Outdoor
Weight	5.14lbs (2.33kg)
Dimensions	L 9.06" X H 18.39" X W 3.74" (230mm X 467mm X 95mm)
Material	Steel
Wind Speed Resistance	150mph (240kmh)
Pole Diameter Range	Ø4" (101mm) to Ø12" (305mm)
Mounting Style	Top Pole Mount
Mounting Hardware to Antenna	Supplied with Bracket
Mounting Hardware to Pole	Not Supplied with Bracket

2 POLE MOUNTING BRACKET — MK06679
D-1 SCALE: NTS

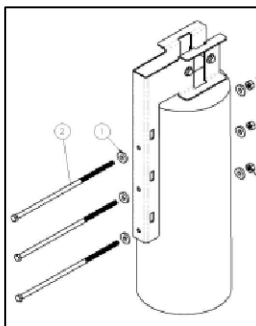


ITEM	QTY	DESCRIPTION
1	1	Rod Adapter
2	1	Plain Washer 1"
3	1	Stainless Steel Split Lock Washer 1"

3 ROD ADAPTER — MK-06678
D-1 SCALE: NTS



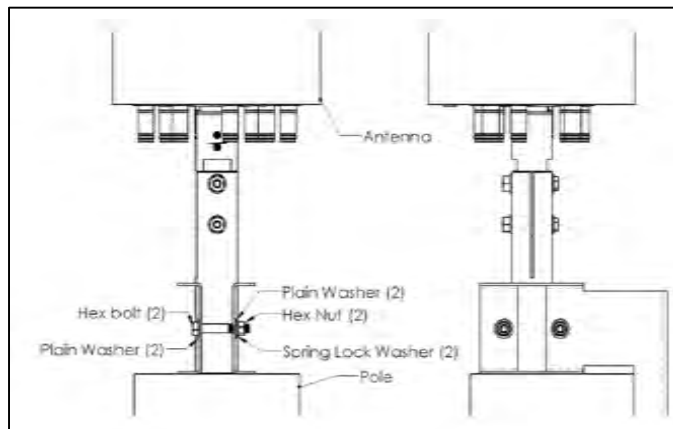
ITEM	QTY	DESCRIPTION
1	1	Bracket
2	2	3/8"x2.5 Hex Bolt
3	4	3/8" Plain Washer
4	2	3/8" Nut
5	2	3/8" Spring Lock Washer



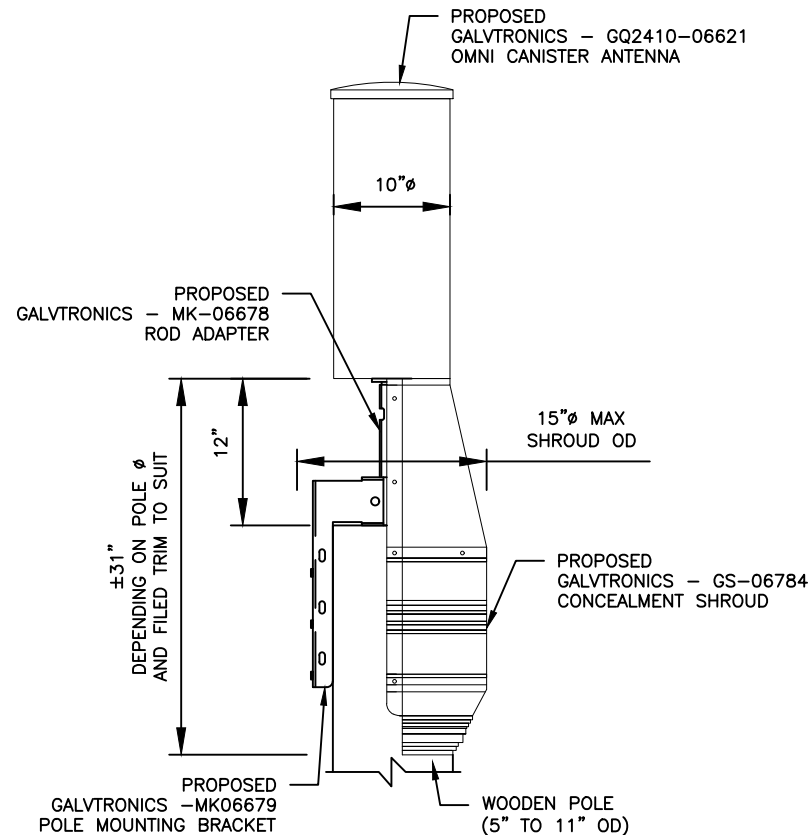
ITEM	QTY	DESCRIPTION
1	3	Metal Strapping Kit
1	6	3/8" Large Diameter Flat Washer
2	3	3/8" Hex Bolt
3	6	3/8" Spring Lock Washer

Notes:
1. Required bolt length varies with pole diameter.

4 MOUNTING BRACKET DETAIL
D-1 SCALE: NTS



5 ANTENNA MOUNTING DETAIL
D-1 SCALE: NTS



6 CONCEALMENT SHROUD DETAIL
D-1 SCALE: NTS



7150 STANDARD DRIVE,
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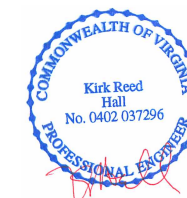
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EQUIPMENT DETAILS

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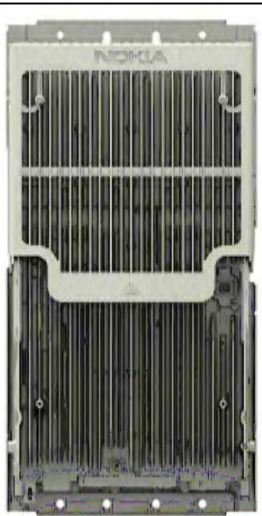
D-1



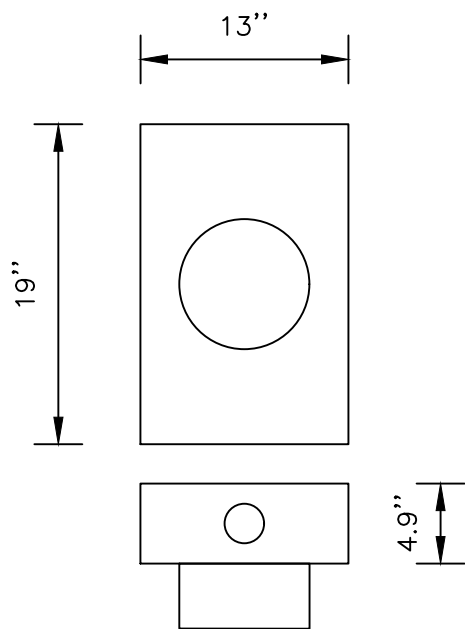
100A SINGLE PHASE PDS OUTDOOR BREAKER PANEL	
HEIGHT	10.13"
DEPTH	6.15"
WIDTH	6"
WEIGHT	10 LBS.
PICO LOAD BREAKERS	(5) 10 AMP
MICRO LOAD BREAKERS	(5) 20 AMP
LOAD BREAKERS POSITION	5

1
D-2 AC PANEL/DISCONNECT DETAIL
SCALE: NTS

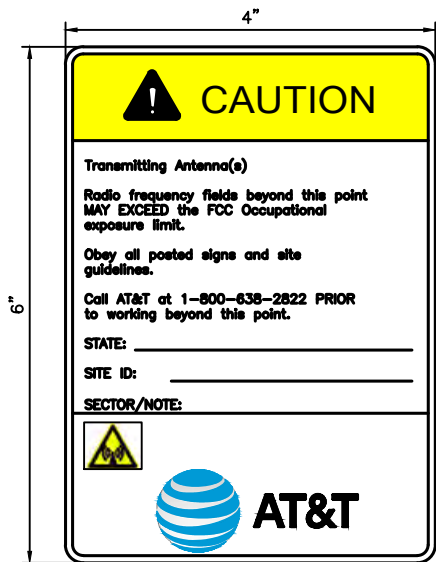
Product name	AirScale Dual RRH 4T4R 825/66 320W, AIFIB -- 4742 16A
Supported Frequency bands	3GPP Bands 25 and 66
Frequencies	Band 25: DL 1930-1995MHz, UL 1850-1915MHz Band 66: DL 2110-2200MHz, UL 1710-1780MHz
Number of TX/RX ports	4/4
Instantaneous Bandwidth IBW	Band 25/ Band 66 -- full band
Occupied Bandwidth OBW	Band 25: full band, Band 66: 80MHz
Output Power	40W per band, 80W per TX
Supply Voltage / Voltage Range	DC-48 V / -36V to -60V
Typical Power Consumption	525W (ETSI 24h Avg - 4x20W per band, 40W per TX port)
Antenna Ports	4 ports, 4.3-10+
Optical Ports	2 x CPRI 9.8 Gbps
ALD Control Interfaces	AISG3.0 from ANT 1,2,3,4 and RET (Power supply ANT1 and ANT3)
Other Interfaces	External Alarm MDR-26 Serial connector (4 inputs, 1 Output) DC Circular Power Connector
Operational Temperature Range	-40°C to 55°C (with no solar load)
Dimensions (mm)	560x308x149 mm (without covers or mounting bracket)
Height x width x depth	
Volume (liters)	< 26 (without covers or mounting bracket)
Weight (kg)	< 30 (without covers or mounting bracket)
Ingress protection class	IP65
Installation options	Pole, Wall, Rack mount: Vertical wall/pole, Horizontal wall
Surge protection	Class II 5kA



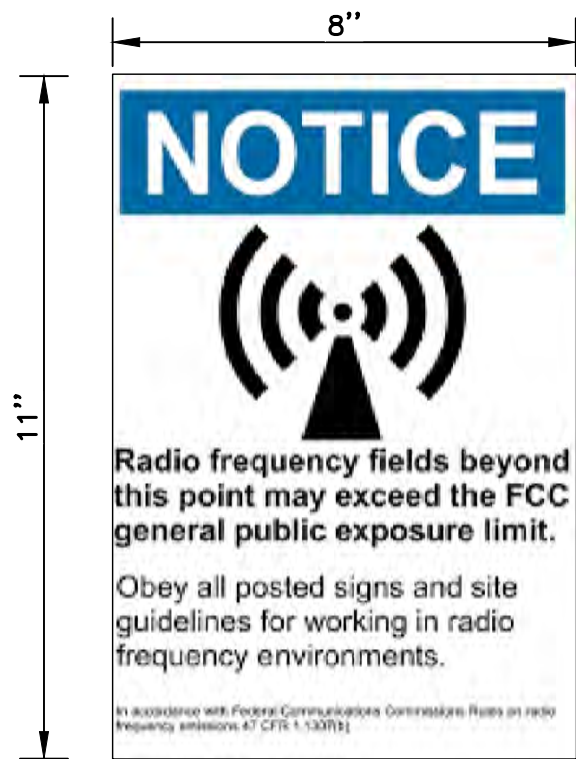
2
D-2 NOKIA -- AIRSCALE 4T4R/2T2R MICRO RRH DETAIL
SCALE: NTS



3
D-2 STANDARD 100 AMP METER CAN
SCALE: NTS



4
D-2 RF WARNING SIGN
SCALE: NTS



5
D-2 RF WARNING SIGN
SCALE: NTS



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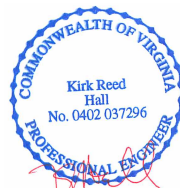
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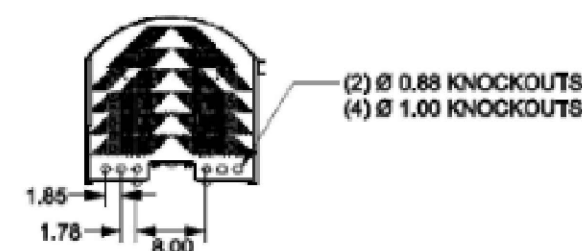
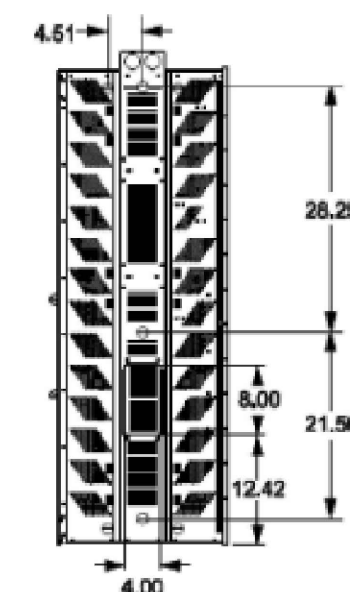
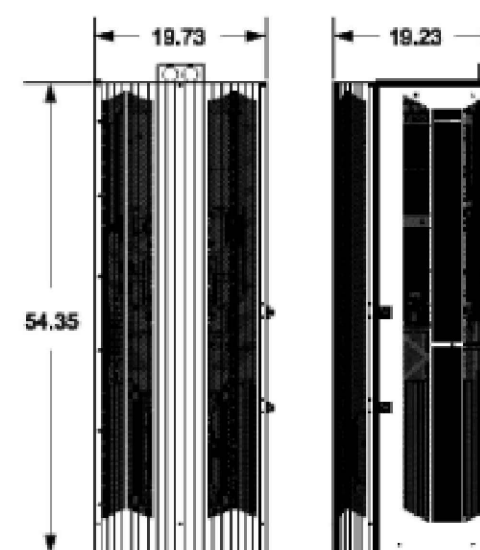
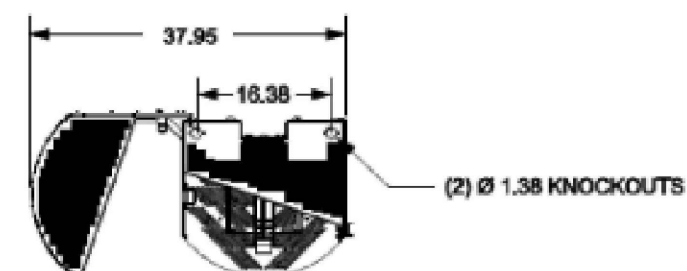
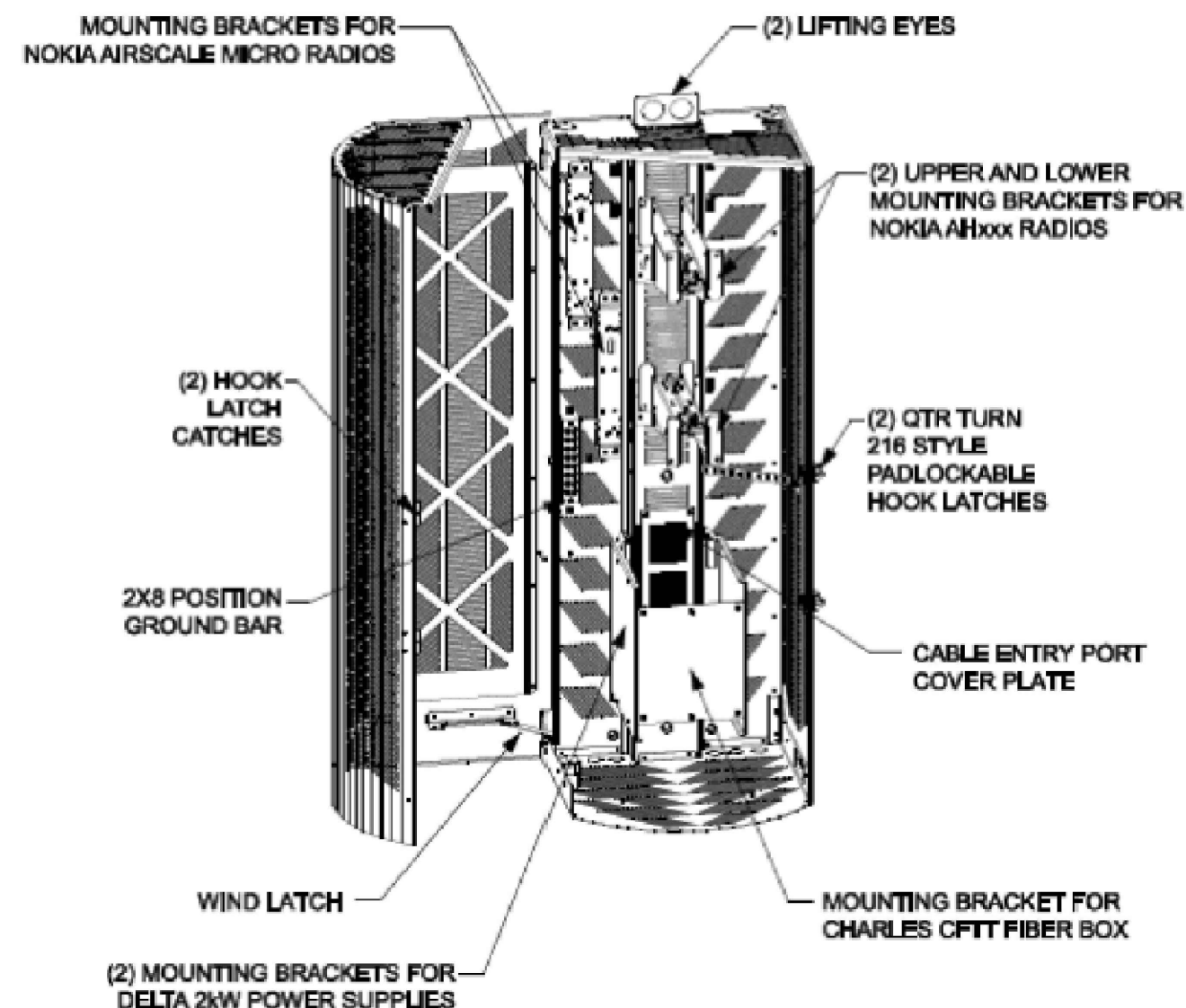
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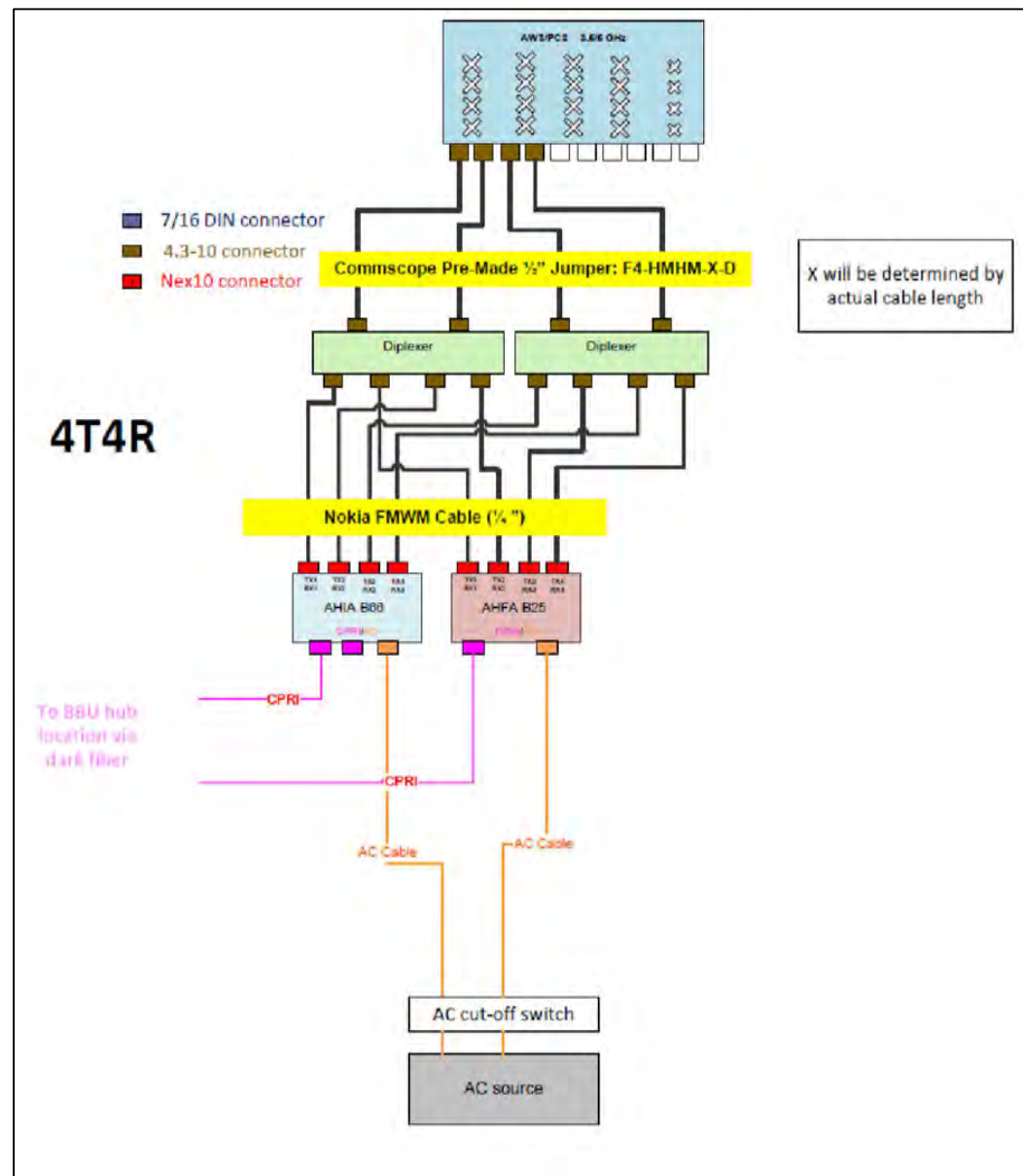
D-3



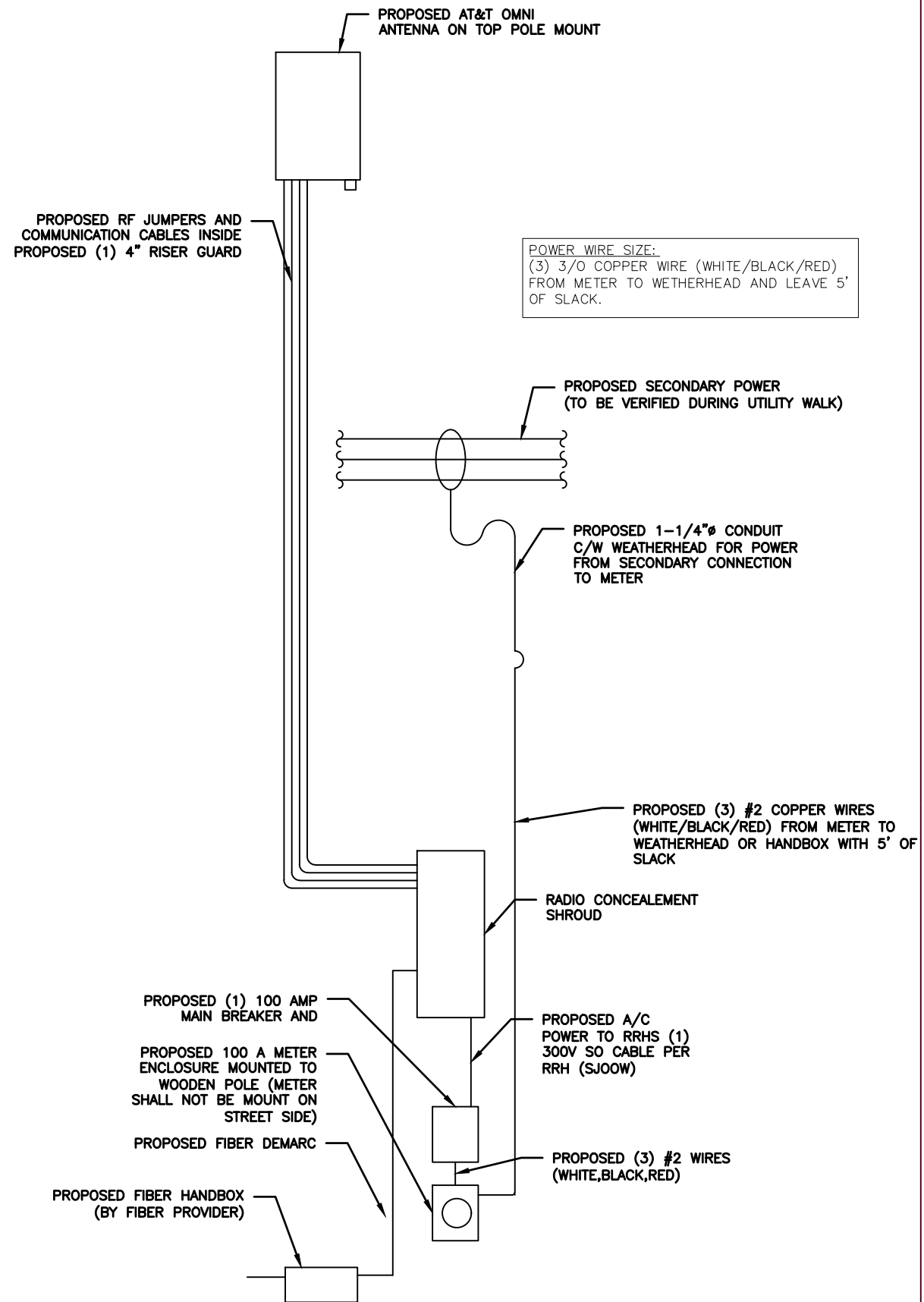
1
D-3 MICRO CHARLES SHROUD
SCALE: NTS

RF SCHEDULE							
ANTENNA SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER (AGL)	TIP HEIGHT (AGL)	CABLE LENGTH	RRH
ALPHA	PROPOSED	GALTRONICS	GQ2410-06621	42'-3"	43'-4"	50'-4"	B25 & B66 DUAL BAND

1 ANTENNA SCHEDULE
D-4 SCALE: NTS



2 PLUMBING DIAGRAM
D-4 SCALE: NTS



3
D-4

GENERAL WIRING DIAGRAM
SCALE: NTS



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SHEET DESCRIPTION

PLUMBING / GENERAL
WIRING DIAGRAM

SHEET NO.

D-4

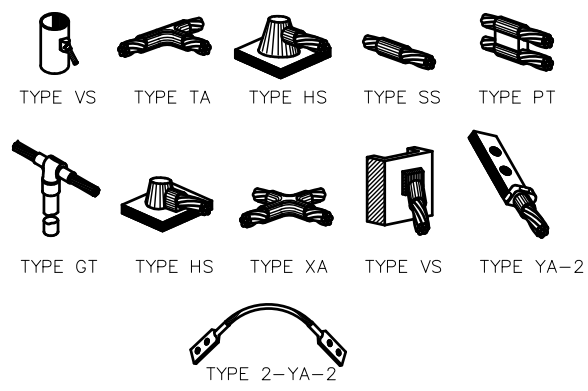
GENERAL GROUNDING AND BONDING NOTES:

- 1. GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
- 2. CONTRACTOR TO INSTALL GROUNDING KITS ON ALL COAXIAL CABLES WHEN APPLICABLE..
- 3. METAL TO METAL CONTACT IS NOT ALLOWED WITHOUT AN INTENTIONAL BOND.
- 4. DISSIMILAR METALS IN DIRECT CONTACT, CAUSES CHEMICAL REACTION BETWEEN THE METALS, LEADING TO CORROSION.
- 5. ALL ABOVE GROUND CONNECTIONS TO THE VERTICAL GROUND RISER (VGR) SHALL BE IRREVERSIBLE CLAMP TYPE AND WEATHER PROOFED.
- 6. WHERE APPLICABLE EARTH GROUND RESISTANCE OF 5 OHMS OR LESS IS PREFERRED. 25 OHMS IS ACCEPTABLE.
- 7. ALL METALLIC SURFACES AND/OR GROUND COMPONENTS INSTALLED W/IN 6' OF EACH OTHER MUST BE PROPERLY BONDED TO VGR., INCLUDING BUT NOT LIMITED TO, RADIO SHROUD, ANTENNA BRACKETS, STREET LIGHTS AND THE DISCONNECT OF AC SERVICE.
- 8. COAXIAL CABLES SHALL BE GROUNDED USING A GROUND KIT INSTALLED BEFORE THE DRIP LOOP AT THE ENTRY TO THE RADIO CABINET. FOR TOP ENTRY RADIOS WHERE RF SURGE PROTECTIVE DEVICES (SPDS) ARE INSTALLED, GROUND THE SPD WILL SUFFICE.
- 9. ALL POLE MOUNTED DEVICES, INCLUDING BUT NOT LIMITED TO, ANTENNA MOUNTS, ANTENNAS WITH FACTORY GROUND TERMINAL, MOUNTING BRACKETS, AND RADIO EQUIPMENT CABINETS SHALL BE BONDED WITH A #6 AWG STRAP/JUMPER TO THE MAIN VGR CONDUCTOR WITH IRREVERSIBLE COMPRESSION CLAMPS. PROPER CRIMPING TOOLS ARE REQUIRED. INSTALL BONDING JUMPER TO THE VGR WITH MINIMUM 8" BENDING RADIUS AND IN A DOWNWARD DIRECTION TOWARD TO MGB AND ITS ASSOCIATED SITE GROUND BOND. AVOID GROUND LOOPS FROM THE EQUIPMENT CHASSIS TO THE CONDUCTIVE SHROUD VIA NON CONDUCTIVE BACKING PLATE.
- 10. FOR A CONDUCTIVE POLE, ALL METALLIC COMPONENTS AND THE CONDUCTIVE POLE ITSELF SHOULD HAVE AN INTENTIONAL BOND TO THE VGR AND BETWEEN ALL COMPONENTS. FOR ELECTRIC METERS SERVICE DISCONNECT AND RADIO EQUIPMENT INSTALLED ON CONDUCTIVE POLES, AVOID UNINTENTIONAL BONDING THROUGH THE CHASSIS AND THE METAL POLE BY INSTALLING NON-CONDUCTIVE ATTACHMENT HARDWARE AND A NON-CONDUCTIVE BACKING PLATE BETWEEN ENERGIZED EQUIPMENT AND A CONDUCTIVE SHROUD BODY. THE METER CHASSIS AND/OR SERVICE DISCONNECT IS TO BE BONDED IN ACCORDANCE TO LOCAL NATIONAL ELECTRICAL CODES. DO NOT ALLOW THE CLAMP OR VGR TO HAVE INTENTIONAL CONTACT WITH THE CONDUCTIVE POLES.
- 11. WHEN SITE IS POWERED UP, BEFORE ACCEPTANCE, TEST FOR OBJECTIONABLE CURRENT AND FOREIGN VOLTAGE.
- 12. SEE NEC CODE 250.24(A)(1) FOR NEUTRAL GROUND BONDING CONNECTION.
- 13. IF UTILITY GROUND IS PRESENT, INSTALL #6 COPPER BOND BETWEEN UTILITY COMPANY GROUND AND THE VGR.
- 13. CONTRACTOR SHALL FOLLOW ALL APPLICABLE SMARTLINK SMALL CELL DESIGN AND CONSTRUCTION STANDARDS.

- STEP WHEN APPROACHING POLE:
- 1. CHECK FOR CONTACT VOLTAGE.
 - 2. PERFORM VISUAL INSPECTION THAT MATERIALS CAN CARRY CURRENT ARE PROPERLY BONDED.
 - 3. TEST GROUNDING SYSTEM.
 - 4. ONLY QUALIFIED TRAINED PERSONNEL SHOULD WORK ON THE NODE.
 - 5. FOLLOW APPROVED CONSTRUCTION DRAWINGS. SPECIFIC OEM PRODUCT MANUALS, PANS, MOPS, & SOW.

- RELATED DOCUMENTS:
- 1. NATIONAL ELECTRIC SAFETY CODE (NESC)
 - 2. 2015 NATIONAL ELECTRIC CODE (NEC)
 - 3. LOCAL POWER UTILITY STANDARDS
 - 4. LOCAL POLE OWNER STANDARDS
 - 5. LOCAL MUNICIPAL STANDARDS

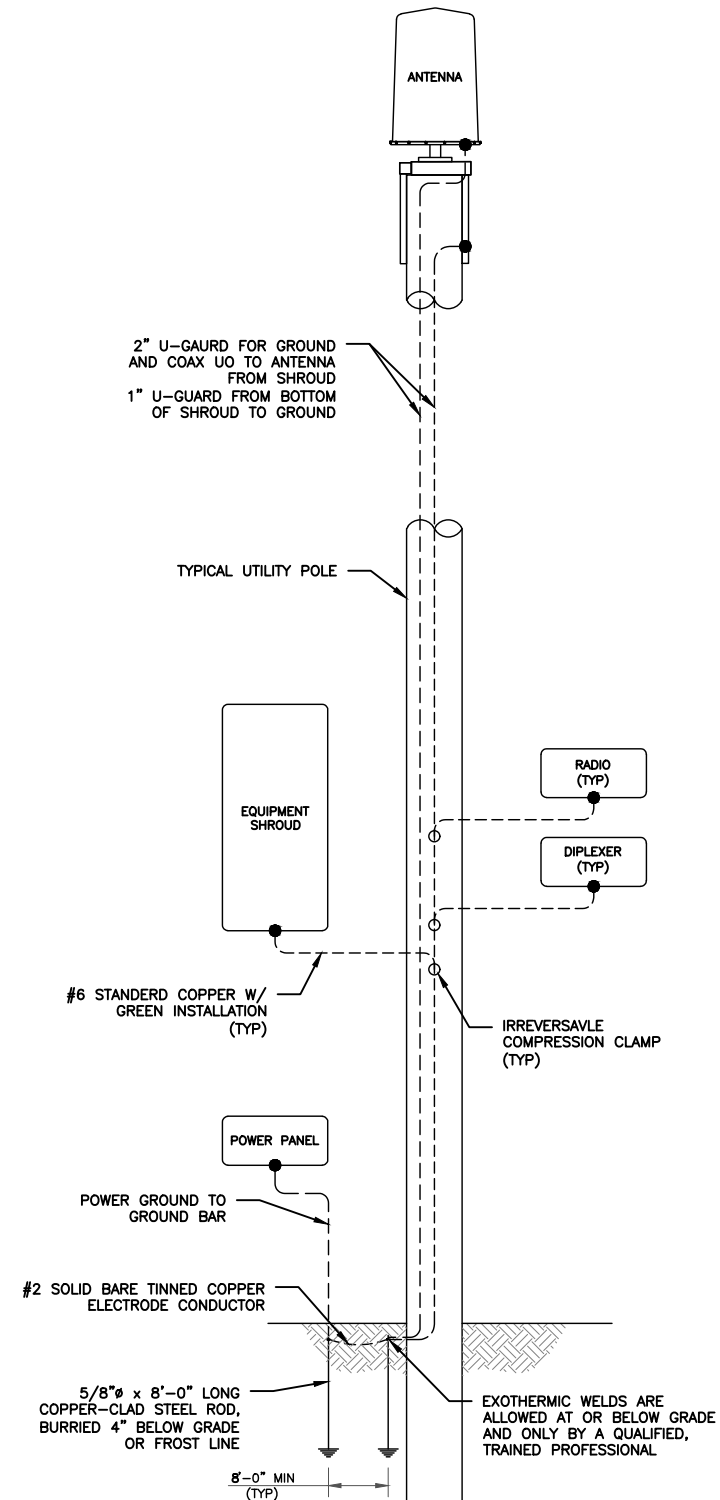
NOTE:
ERICO CADWELD "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER OR CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



1 G-1 EXOTHERMIC WELD DETAILS
SCALE: NTS

GROUNDING PLAN LEGEND:

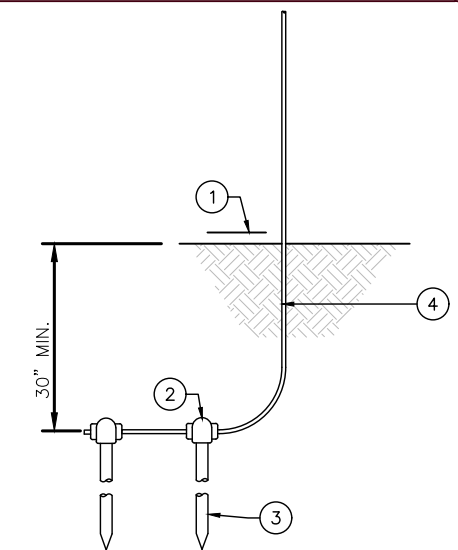
- COMPRESSION CONNECTION
- EXOTHERMIC WELD
- MECHANICAL CONNECTION



2 G-1 GROUNDING RISER DIAGRAM
SCALE: NTS

GROUND ROD INSTALLATION KEYED NOTES:

- 1. FINISHED GRADE
- 2. EXOTHERMIC CONNECTION (TYPE GT)
- 3. 5/8"x10' LONG COPPER CLAD GROUND ROD WITH EXOTHERMIC CONNECTION TO GROUND RING
- 4. #2 AWG GREEN JACKET STRANDED GROUND WIRE (TO EQUIPMENT GROUND BAR)

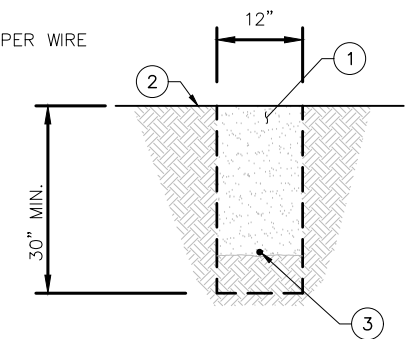


- NOTES:
- 1. ALL GROUNDING AND BONDING AT THE SERVICE ENTRANCE SHALL COMPLY WITH NEC 250.28, 250.50, 250.66, 250.92, 250.102(C) & 250.56
 - 2. GROUNDING SYSTEM RESISTANCE IS 25 OHMS OR LESS

3 G-1 GROUND ROD INSTALLATION DETAIL
SCALE: NTS

GROUND RING TRENCHING KEYED NOTES:

- 1. BACKFILL PER SPECIFICATIONS
- 2. FINISHED GRADE
- 3. #2 AWG OR COARSER SOLID TINNED BARE COPPER WIRE



- NOTES:
- 1. DEPTH TO BE 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
 - 2. GROUND RINGS SHOULD CONSIST OF AT LEAST 20' OF #2 AWG OR LARGER BARE COPPER CONDUCTOR.
 - 3. BURY THE RINGS IN DIRECT CONTACT WITH SOIL.

4 G-1 GROUND TRENCH DETAIL
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SHEET NO.
G-1

SATELLITE VIEW



PROPOSED SECTOR VIEW

PROPOSED AT&T GALTRONICS GQ2410-06621 TOP MOUNTED ANTENNA CANISTER & LOWER CONCEALMENT SHROUD COLORED TO MATCH (ANTENNA TIP HEIGHT = 51'-4")

PROPOSED NEW 48' WOOD POLE TO REPLACE EXIST. 37'-5" WOOD UTILITY POLE.

PROPOSED CHARLES MICRO RRH SHROUD COLORED TO MATCH AT 13' CENTER HEIGHT.

PROPOSED 100 AMP MAIN BREAKER AND 100 AMP METER MOUNTED AT 8' HEIGHT AWAY FROM STREET SIDE.



EXISTING SECTOR VIEW

