

Syracuse Zoning Administration

Application for TOWER, DISH or ANTENNA

City Hall Commons • Room 101 • 201 East Washington St • Syracuse, N.Y. 13202-1426 • (315)448-8640

Please Print or Type Information

For Office use only:

8/21/19	SR-03-08 M2	RA/RAA
Filing date	Case #	District

This APPLICATION is for: Dish Tower Antenna Modifications

SUBJECT PROPERTY ADDRESS - Location of Proposal: (918 Euclid Ave)

920 Euclid Avenue & Roosevelt Avenue (TM #053.-01-01.0)

APPLICANT INFORMATION

PROPERTY OWNER:

Name: Church-Erwin First Methodist Phone: (315) 472-4082

Address: 920 Euclid Avenue
Syracuse, NY 13210

REPRESENTATIVE:

Attorney, Architect, Contractor, Other: Agent

Name: Brenda Blask-Lewis, Site Acq. Consultant at Centerline Comm Phone: (315) 867-3236

Address: 750 West Center Street, Suite 301
West Bridgewater, MA 02379

OTHERS INVOLVED (if applicable):

Lessee, Contract Purchaser, Other:

Name: Phone:

Address:

STRUCTURE INFORMATION:

MAXIMUM HEIGHT from ground level to top of structure: 112'

DISTANCE from structure to front property line: N/A

DISTANCE to closest side property line: N/A

DIAMETER of structure (if dish): N/A

HEIGHT from ground to bottom of structure (if dish): N/A

DECLARATION

I understand that false statements made herein are punishable as a Class A Misdemeanor, pursuant to section 210.45 of the Penal Law of the State of New York. I declare that, subject to the penalties of perjury, any statements made on this application and any attachments are the truth and to the best of my knowledge correct.

I also understand that any false statements and/or attachments presented knowingly in connection with this application will be considered null and void.

CURRENT PROPERTY OWNER SIGNATURE

As listed on the City of Syracuse Tax Assessment Roll. If not listed as the owner on the current rolls, please include a proof of ownership, for example, a copy of the deed. Attorney's signing on behalf of the owner must include a one page letter describing the legal representative arrangement. Architects, engineers, contractors, tenants, etc. cannot sign on behalf of the property owner. If property owner is a Corporation or an Organization, then the person signing must provide verification they are a member of such, and can sign on the owners' behalf.

Brenda Blask-Lewis August 1, 2019
CURRENT PROPERTY OWNER SIGNATURE **DATE**

Brenda Blask-Lewis, Site Acquisition Consultant at Centerline Communications, LLC, as Agent for
Please legibly PRINT SIGNATURE NAME and TITLE New Cingular Wireless PCS, LLC (AT&T)

REQUIRED SUBMITTALS

- APPLICATION:** Completely filled out and signed by owner of property
- *PROPERTY SURVEY:** One full sized, to scale copy of a property survey drawn by a licensed land surveyor *N/A - Existing site/building. Not altering building, not changing existing property. Construction Drawings (CDs) included with application. CDs (15 pgs), date 5/8/2019 prepared by C&S.
- *SITE PLAN:** Showing proposed showing exact location of proposed tower, dish or antenna.*See CDs dated 5/8/2019
- For towers and other antenna support structures, not including satellite dish antennas and antennas on buildings: supporting drawings, calculations, and other documentation, signed and sealed by licensed engineers, showing the location and dimensions of all improvements, including:
 - Information concerning topography
 - Radio frequency coverage
 - Tower height requirements
 - Setbacks
 - Fencing
 - Landscaping
 - Depending on the specifics of the application the City Planning Commission may request additional information necessary to assess the nature of the proposal and its potential impacts.

NOTE: To facilitate review of the application, it is recommended that the applicant submit PHOTOS of the property where structures is to be erected.

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information			
New Cingular Wireless PCS, LLC (AT&T) by its agent, Centerline Communications, LLC			
Name of Action or Project: Euclid / 10000806			
Project Location (describe, and attach a location map): 920 Euclid Avenue & Roosevelt Avenue, Syracuse, NY 13210			
Brief Description of Proposed Action: Existing telecommunications site: Equipment modifications to wireless telecommunications facility located attached to the steeple of the Subject Property building.			
Name of Applicant or Sponsor: New Cingular Wireless PCS, LLC (AT&T) by its agent, Centerline Communications, LL		Telephone: (315) 867-3236	
		E-Mail: bblasklewis@clinellc.com	
Address: 750 West Center Street, Suite 301			
City/PO: West Bridgewater		State: MA	Zip Code: 02379
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		0.97 acres	
b. Total acreage to be physically disturbed?		0 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		0.97 acres	
4. Check all land uses that occur on, adjoining and near the proposed action.			
<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland			

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: New Cingular Wireless PCS, LLC (AT&T) Date: August 1, 2019

Signature: Brenda Black-Lewis of Centerline Communications, as agent

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

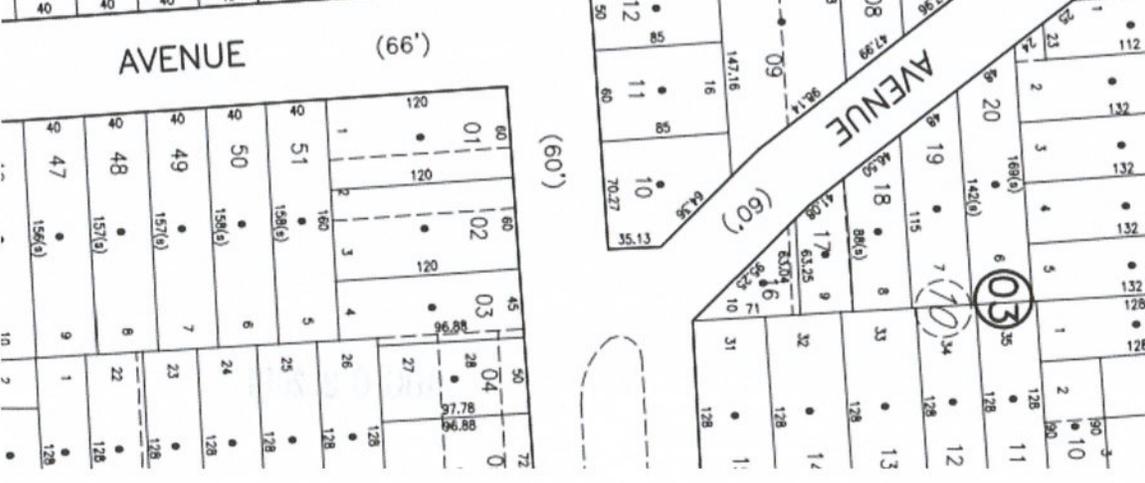
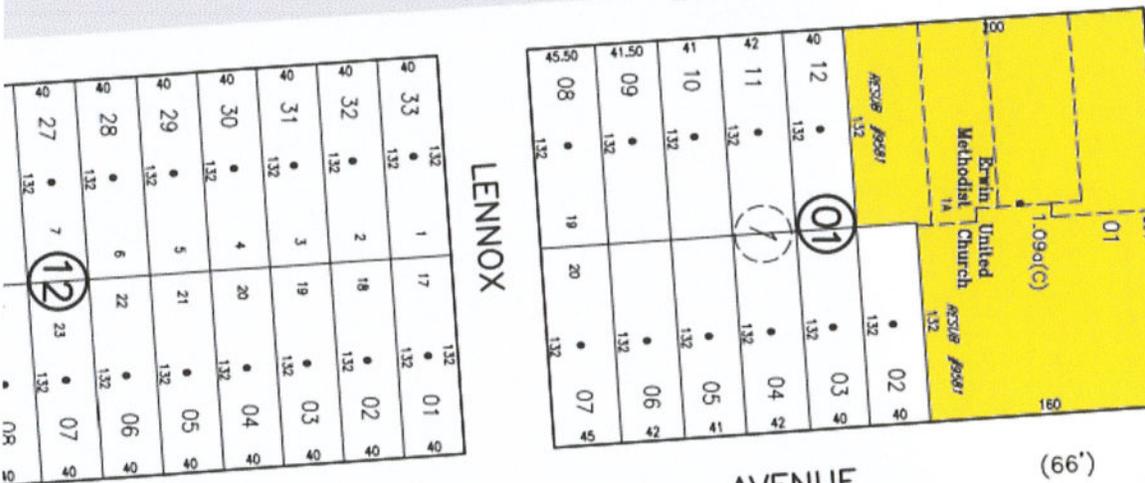
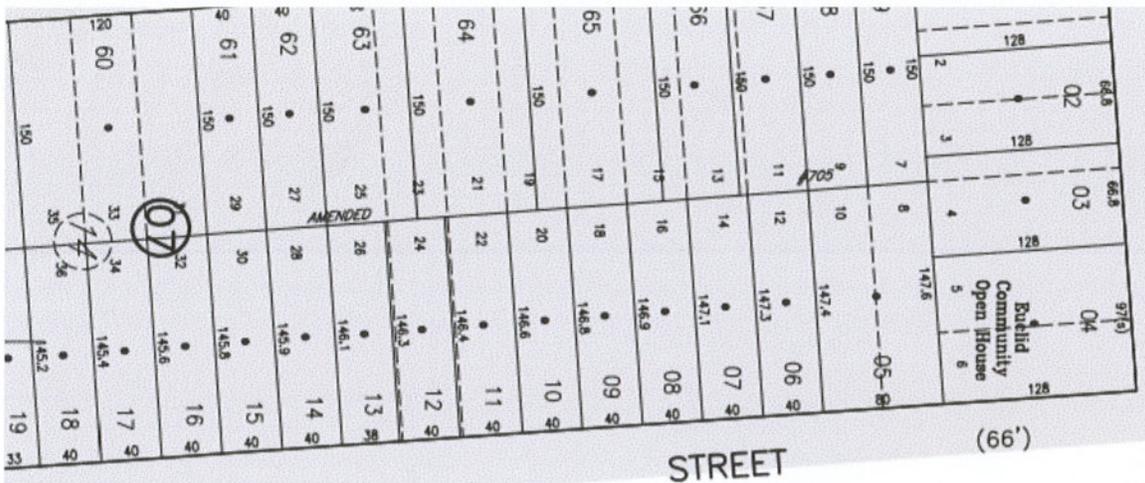
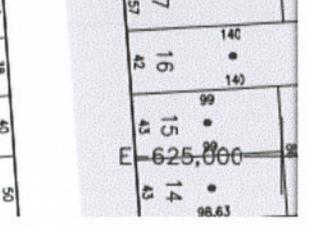
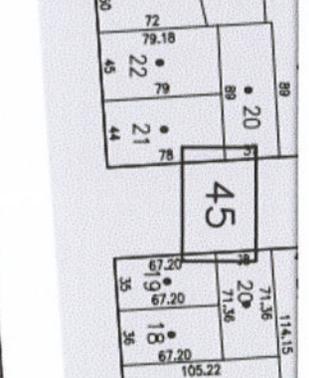
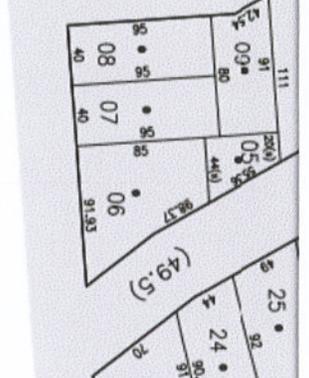
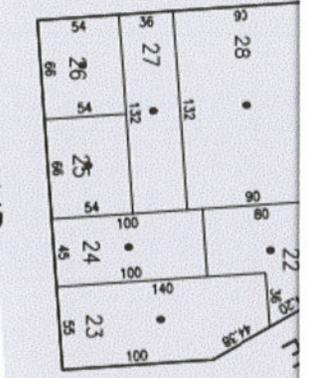
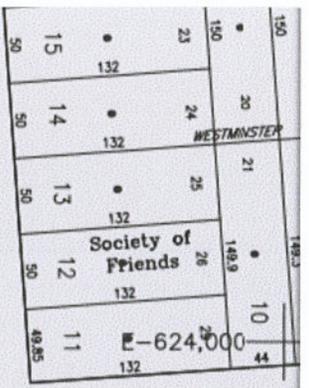
	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:		
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered “moderate to large impact may occur”, or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT



(80')

(66')

(66')

(60')

STREET

EUCLID

AVENUE

STREET

STRONG

AVENUE

WEST

(49.5)

45

000,000

August 1, 2019

City of Syracuse
Office of Zoning Administration
ATTN: Jeff Harrop
201 Washington Street
City Hall – Commons Room 301
Syracuse, NY 13202

Re: New Cingular Wireless PCS, LLC (“AT&T”) Zoning Application (“Application”) for equipment upgrades at the existing wireless telecommunications facility (“Facility”) located at 920 Euclid Avenue, Syracuse, NY 13210

Dear Jeff:

AT&T is seeking to perform equipment upgrades to the above-referenced existing telecommunications facility. I am submitting this application as an eligible-facilities request under Section 6409, referenced below. Please find enclosed the following documents in support of our application to obtain a zoning permit:

1. Zoning Application
2. Excerpt from the FCC Order regarding 6409
3. (3) sets of signed and stamped Construction Drawings
4. (3) copies of Building Structural Letter
5. (3) copies of Short Environmental Assessment Form
6. Letter of Authorization – AT&T
7. Certificates of Insurance from General Contractor

Section 6409 of the Federal Middle-Class Tax Relief and Job Creation Act (“Section 6409”) was adopted in 2012. Under Section 6409, your city retains discretionary zoning review over the construction of *new* towers, but simple collocations and/or equipment upgrades at existing telecommunications facilities must be approved. The new law provides that:

“a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.” (Emphasis added.)

The federal law defines an “eligible facilities request” as **“(A) collocation of new transmission equipment; (B) removal of transmission equipment; or (C) replacement of transmission equipment.”** (Emphasis added.)

Also, the Federal Communications Commission issued a Wireless Infrastructure Report and Order on October 17, 2014 (“FCC Order”) which established regulations that clarify and streamline the

Page 2
Jeff Harrop
August 1, 2019

municipal approval process for eligible facilities requests under Section 6409.

The FCC Order clarifies that municipal review of an eligible facilities request is **limited to determining whether the request falls within Section 6409:**

“a State or local government may require the applicant to provide documentation or information **only to the extent reasonably related to determining whether the request meets the requirements of this section** [Section 6409]. A State or local government **may not require an applicant to submit any other documentation**, including but not limited to documentation intended to illustrate the need for such wireless facilities or to justify the business decision to modify such wireless facilities.”⁴⁷ C.F.R. 1.40001(c)(1) (Emphasis added).

The FCC Order also specifies that the term “base station” includes any structure that “supports or houses” communications equipment. Since this structure already supports communications equipment, it is considered a “base station” under Section 6409

AT&T’s Application is an Eligible Facilities Request under Section 6409

AT&T’s application qualifies as an eligible facilities request under Section 6409 because the proposed installation involves “a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.”

AT&T’s current facility consists of (9) antennas, (6) RRH units, (6) TMAs, (6) Diplexers, (3) Surge Suppression Systems, (12) Coax cables; (2) DC Cables, and (1) Fiber Trunk at the approved centerline of 62-feet above ground level on the existing steeple structure.

As shown on the plans prepared by C&S Engineers, Inc. dated May 8, 2019, AT&T’s proposed installation consists principally of the following elements:

Replace (9) existing antennas with (6) proposed antennas (painted to match steeple); replace (6) existing RRH units with (15) proposed RRH units; and the replacement of (6) existing TMAs with (3) proposed TMAs with associated cables, mounted on the existing structure. The proposed antennas to be installed on existing antenna pipe masts attached to the steeple at the approved centerline elevation of 62-feet above ground level. The proposed RRH units and TMAs will be installed inside of the existing steeple structure.

Accordingly, AT&T’s installation involves **the replacement of transmission equipment that will not increase the height of the tower nor the dimensions of the equipment compound**. As a result, the installation “does not substantially change the physical dimensions of such tower or base station.”

Page 3
Jeff Harrop
August 1, 2019

Therefore, these proposed equipment upgrades constitute an "eligible facilities request" under Section 6409 and must be approved.

Timeline for Review and Approval

We would like to highlight an important timing requirement for processing this application. The FCC Order determined that a **municipality must act on an eligible facilities request within sixty (60) days of receiving the application**. 47 C.F.R. 1.40001(c)(2) (Emphasis added). (Note, the sixty (60)-day period is also known as the "Shot Clock"). Thus, the city must approve this application within sixty (60) days of its receipt. The FCC Order provides that upon a municipality's failure to act prior to expiration of the Shot Clock, the **"request shall be deemed granted"** and AT&T will be legally entitled to proceed with construction. 47 C.F.R. 1.40001(c)(4) (Emphasis added).

Note that the FCC Order does allow the Shot Clock to be tolled if an application is incomplete. However, in order to do so, a municipality must provide written notice that the application is incomplete within thirty (30) days of the submittal. 47 C.F.R. 1.40001(c)(3)(i). The notice must "clearly and specifically" describe the missing documents or information, 47 C.F.R. 1.40001(c)(3)(i), and, as previously mentioned, such documentation must be necessary to the determination of whether the application qualifies as an eligible facilities request. If the municipality requests additional information after the first thirty (30) days have passed, we will still provide any "reasonably related" information allowed under the FCC Order, but the Shot Clock will not be tolled.

In light of the foregoing, AT&T respectfully requests that its proposed equipment upgrades be approved.

In the meantime, if you have any questions, please feel free to call or email me. Thank you for your cooperation.

Sincerely,

Brenda Blask-Lewis (electronic signature)

Brenda Blask-Lewis
Site Acquisition Consultant

Cell: (315) 867-3236
e-mail: bblasklewis@clinellc.com

May 8, 2019

Peter Lamontagne
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767

Re: AT&T – Euclid LTE 3C/4C/5C, FA#10000806
920 Euclid Avenue
Syracuse, NY 13210
Structural Certification

Dear Mr. Lamontagne:

It is our understanding that AT&T is proposing the replacement of nine (9) existing antennas with six (6) proposed antennas, the replacement of six (6) existing RRH units with fifteen (15) proposed RRH units, and the replacement of (6) existing TMA's with three (3) proposed TMA's with associated cables, mounted on the existing structure at the above referenced address. The proposed antennas will be installed on existing antenna pipe masts attached to the steeple with a centerline elevation of 62'0" above ground level. The proposed RRH units and TMAs will be installed inside of the existing steeple structure.

Based on the proposed loads imposed by the installation of the above referenced equipment, it is our opinion that the existing building structure is capable of supporting the additional loads imposed by the proposed AT&T equipment, provided that said equipment is installed and supported in accordance with the Construction Drawings prepared by C&S Engineers, Inc., dated May 8, 2019, including the mount replacements shown in the drawings.

If you have any questions, please give me a call.

Very truly yours,

C&S ENGINEERS, INC.



Eric N. Kenna, P.E.
Department Manager

47 USC 1455

Middle Class Tax Relief and Job Creation Act of 2012

SEC. 6409. WIRELESS FACILITIES DEPLOYMENT

(a) FACILITY MODIFICATION.—

(1) **IN GENERAL.**—Notwithstanding section 704 of the Telecommunications Act of 1996 (Public Law 104–104) or any other provision of law, a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.

(2) **ELIGIBLE FACILITIES REQUEST.**—For purposes this subsection, the term “eligible facilities request” means any request for modification of an existing wireless tower or base station that involves –

- (A) collocation of new transmission equipment;
- (B) removal of transmission equipment; or
- (C) replacement of transmission equipment.

(3) **APPLICABILITY OF ENVIRONMENTAL LAWS.** Nothing in paragraph (1) shall be construed to relieve the Commission from the requirements of the National Historic Preservation Act or the National Environmental Policy Act of 1969.



**CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF**

**FA NUMBER: 10000806
SITE ID: 0070
SITE NAME: EUCLID
AT&T UPSTATE NY
LTE 3C/4C/5C PROJECT**

**ABC-D'D'_7TRD'8TRD'2TRD'9TRD'_Ft8u
920 EUCLID AVENUE
SYRACUSE, NY 13210**

C&S PROJECT: N25.001.002

JANUARY 2019



TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ARE IN COMPLIANCE WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE AND THE BUILDING CODE OF NEW YORK STATE
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

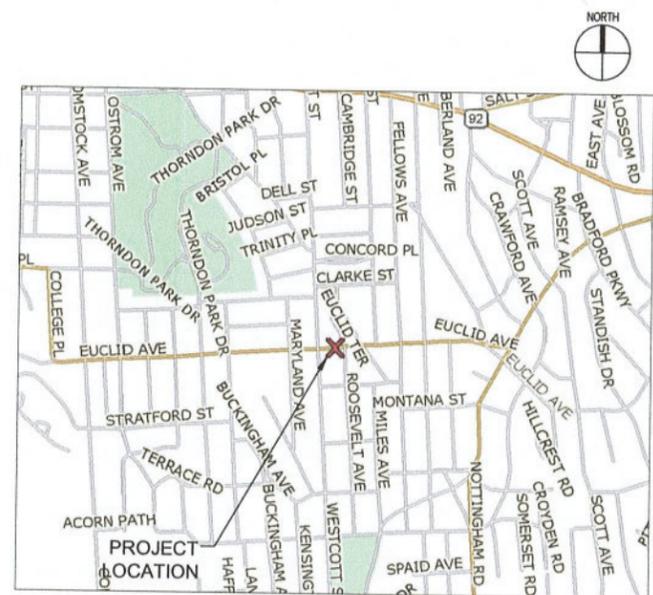
PROJECT INFORMATION	
LANDLORD:	ERWIN FIRST UNITED METHODIST CHURCH 920 EUCLID AVENUE SYRACUSE, NY 13210
SITE CONTACT: PHONE No.:	SCOTT CORR (315) 472-4082
SITE NAME: SITE NUMBER: USID NUMBER:	EUCLID 0070 61402
FA NUMBER: SITE ADDRESS:	10000806 920 EUCLID AVENUE SYRACUSE, NY 13210
LATITUDE:	N43° 02' 12.52"
LONGITUDE:	W76° 07' 5.41"
GROUND ELEVATION:	592± AMSL
RAD CENTER:	62'-0" AGL
ZONING JURISDICTION: COUNTY: TYPE OF SITE: HEIGHT:	CITY OF SYRACUSE ONONDAGA STEEPLE WITH ROOM BUILD 112'-0" AGL.
DESCRIPTION OF WORK:	REMOVE (9) EXISTING ANTENNAS AND REPLACE WITH (6) PROPOSED. PAINT ANTENNA TO MATCH STEEPLE. REPLACE (6) RRH UNITS, ADD (3) RRH UNITS, RESERVE (6) FUTURE RRH UNITS. REPLACE TMAS/DIPLEXERS WITH (3) TWIN TMAS. REMOVE DC2S/F12. INSTALL (3) SQUIDS, RESERVE (3) FUTURE SQUIDS. (6) FIBER TRUNKS, (12) DC 3-PAIR. REMOVE (6) COAX. INSTALL ASSOCIATED EQUIPMENT IN EXISTING ROOM.

PROJECT DIRECTORY	
PROJECT MANAGER:	CENTERLINE COMMUNICATIONS, LLC
CONTACT: PHONE: EMAIL:	PETER LAMONTAGNE (508) 341-7854 plamontagne@clinelic.com
CIVIL ENGINEERING FIRM:	C&S ENGINEERS INC. 499 COL. EILEEN COLLINS BLVD. SYRACUSE, NY 13212 ERIC N. KENNA P.E. (315) 455-2000
CONTACT: PHONE:	at&t MOBILITY CORP. 5841 BRIDGE STREET EAST SYRACUSE, NY 13057 BILL FURDOCK (315) 447-0746
APPLICANT:	at&t MOBILITY CORP. 5841 BRIDGE STREET EAST SYRACUSE, NY 13057 BILL FURDOCK (315) 447-0746
CONTACT: PHONE:	NATIONAL GRID (800) 867-4272
POWER COMPANY: PHONE:	NATIONAL GRID (800) 867-4272
TELEPHONE COMPANY:	VERIZON COMMUNICATIONS (800) 837-4966

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

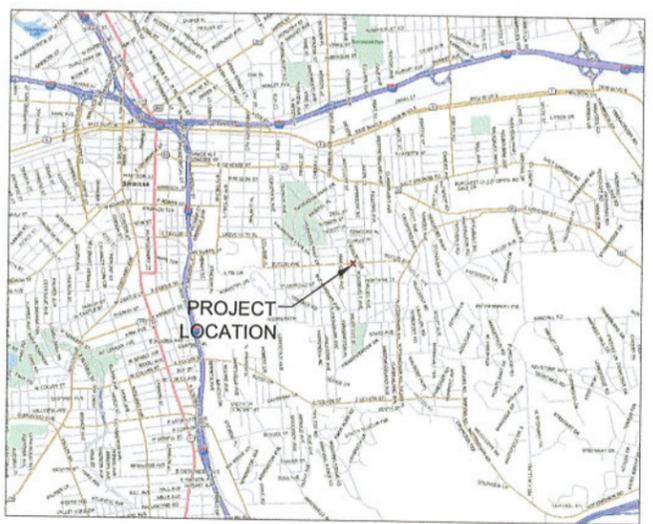
Dig Safely. New York
www.digsafelynewyork.org
811
 Call Before You Dig
 Wait The Required Time
 Confirm Utility Response
 Respect the Marks
 Dig With Care

DRAWING LIST			
SHEET NO.	SHEET NAME	REV	DATE
G-001	TITLE SHEET	2	5-8-19
G-002	GENERAL NOTES	2	5-8-19
G-003	GENERAL NOTES	2	5-8-19
CIVIL			
C-100	PROPERTY PLAN	2	5-8-19
C-101	EQUIPMENT LAYOUT PLAN	2	5-8-19
C-102	STEEPLE PLAN	2	5-8-19
C-201	ELEVATION	2	5-8-19
C-202	ENLARGED ANTENNA ELEVATIONS	2	5-8-19
C-501	DETAILS	2	5-8-19
C-502	DETAILS	2	5-8-19
TELECOMMUNICATIONS			
T-601	RF PLUMBING DIAGRAM	2	5-8-19
T-602	SCHEMATICS, DIAGRAMS AND NOTES	2	5-8-19
ELECTRICAL			
E-501	GROUNDING DETAILS	2	5-8-19
E-502	GROUNDING DETAILS	2	5-8-19
APPROVALS			
AT&T PROJECT MANAGER		DATE	
CENTERLINE COMMUNICATIONS PROJECT MANAGER		DATE	



LOCATION MAP

DIRECTIONS TO SITE: (FROM SYRACUSE AT&T OFFICE) HEAD SOUTHWEST ON BRIDGE ST TOWARD CELI DR. TURN LEFT ONTO NY-5 E/ERIE BLVD E. TURN RIGHT ONTO NY-92 W/E GENESEE ST. TURN LEFT ONTO E GENESEE PKWY. CONTINUE ONTO MEADOWBROOK DR. TURN RIGHT ONTO EUCLID AVE. DESTINATION WILL BE ON THE LEFT



VICINITY MAP

May 08, 2019 - 2:29pm
F:\Project\N25 - Centerline Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Construction\Sheet Files\General\N25001002_C-001.dwg

	<p>GROUNDING NOTES:</p> <ol style="list-style-type: none"> ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS. EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE. EXTERIOR GROUND SHALL ALL BE CADWELDED CONNECTIONS. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS. ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT. 	<p>1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:</p> <p>CONTRACTOR - CENTERLINE SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY CORP.</p> <ol style="list-style-type: none"> ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED 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. 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. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. 	<p>ABBREVIATIONS</p> <p>AC ALTERNATING CURRENT AGL ABOVE GRADE LEVEL AIC AMPERAGE INTERRUPTION CAPACITY ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BCW BARE COPPER WIRE BTC BARE TINNED COPPER CONDUCTOR BTS BASE TRANSCEIVER STATION BATT BATTERY CHG CHARGING COMM COMMON DC DIRECT CURRENT DIA DIAMETER DWG DRAWING (E) EXISTING EC ELECTRICAL CONDUCTOR EG EQUIPMENT GROUND EGR EQUIPMENT GROUND RING EMT ELECTRICAL METALLIC TUBING FIF FACILITY INTERFACE FRAME GEN GENERATOR GPS GLOBAL POSITIONING SYSTEM GSM GLOBAL SYSTEM FOR MOBILE HVAC HEAT/VENTILATION/AIR CONDITIONING IGR INTERIOR GROUNDING RING (HALO) MGB MASTER GROUNDING BAR MIN MINIMUM MW MICROWAVE MTS MANUAL TRANSFER SWITCH NEC NATIONAL ELECTRICAL CODE N.T.S. NOT TO SCALE OC ON CENTER PP POLARIZING PERSERVING PCJ PRIMARY CONTROL UNIT PDJ PROTOCOL DATA UNIT RBS RADIO BASE STATION RECT RECTIFIER REF REFERENCE REQ REQUIRED RET REMOTE ELECTRICAL TILT RF RADIO FREQUENCY RMC RIGID METALLIC CONDUIT RRH REMOTE RADIO HEAD RRU REMOTE RADIO UNIT RWY RACEWAY SIAD SMART INTEGRATED ACCESS DEVICE T.B.D. TO BE DETERMINED T.B.R. TO BE RESOLVED TDMA TIME-DIVISION MULTIPLE ACCESS TMA TOWER MOUNT AMPLIFIER TVSS TRANSIENT VOLTAGE SUPPRESSION SYSTEM TYP TYPICAL UMTS UNIVERSAL MOBILE TELECOMMUNICATION SYSTEM</p>
<p>NOTES:</p> <ol style="list-style-type: none"> ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH.....3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER2 IN. #5 AND SMALLER & WWF1 1/2 IN. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND: SLAB AND WALL3/4 IN. BEAM AND COLUMNS1 1/2 IN. A CHAMFER OF 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL. CONCRETE SHALL COMPLY WITH ACI 304 AND ASTM C94 WITH A MAXIMUM WATER-CEMENT RATIO OF 0.50. TIME BETWEEN INTRODUCTION OF WATER AND THE PLACEMENT OF CONCRETE SHALL NOT EXCEED 1-1/2 HOURS. CONCRETE SLUMP SHALL NOT EXCEED 5 INCHES UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. SLUMP SHALL BE OR AS SPECIFIED ON THE CONCRETE MIX DESIGN. PROVIDE AIR ENTRAINMENT IN EXTERIOR EXPOSED CONCRETE TO OBTAIN TOTAL AIR CONTENT OF 5% ± 1% IN ACCORDANCE WITH ACI 301. 		<p>SYMBOLS:</p> <p> SOLID GROUND BUS BAR SOLID NEUTRAL BUS BAR SUPPLEMENTAL GROUND CONDUCTOR 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER CHEMICAL GROUND ROD GROUND ROD DISCONNECT SWITCH METER CADWELD TYPE CONNECTION COMPRESSION TYPE CONNECTION GROUNDING WIRE GROUND ROD WITH INSPECTION SLEEVE TEST GROUND ROD WITH INSPECTION SLEEVE EXOTHERMIC WITH INSPECTION SLEEVE</p>	
<p>A1 CONCRETE AND REINFORCING STEEL NOTES NOT TO SCALE</p>	<p>A2 GROUNDING NOTES NOT TO SCALE</p>	<p>A3 GENERAL NOTES NOT TO SCALE</p>	<p>A4 ABBREVIATIONS AND SYMBOLS NOT TO SCALE</p>



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
088339



at&t MOBILITY CORP.
5841 BRIDGE STREET
EAST SYRACUSE, NY 13057



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENNA P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GENERAL NOTES

G-002

May 08, 2019 - 2:20pm
 F:\Project\N25 - Centerline Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Project\Euclid\Euclid\3C4C5C Construction Sheet - Title\General\N25001002_G-002.dwg

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTING ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTES THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS BE STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR ALL INDOOR LOCATIONS.
- RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR ALL OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NON-METALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TIGHT FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES (CONTINUED):

- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROSPERITY.

C2 ELECTRICAL NOTES
NOT TO SCALE

NOTES:

- SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION.
- TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER AT&T TOWER/ANTENNA CABLE MARKING STANDARD:
- TOP OF TOWER END OF MAIN COAX
- BOTTOM OF TOWER END OF MAIN COAX
- DIRECTLY BEFORE AND AFTER RF EQUIPMENT
- END OF JUMPERS AT BTS EQUIPMENT
- ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.
- PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.
- SUBCONTRACTOR SHALL PROVIDE ALL GROUNDING KITS AND WEATHERPROOFING KITS.
- THE MAIN COAX LENGTH DIFFERS FROM THE RF DATA SHEET BASED ON WALKDOWN BY THE AE.
- BASED UPON RF CONFIGURATION PROVIDED BY at&t MOBILITY CORP. RF SHEET.

B2 ANTENNA AND CABLE SCHEDULE NOTES
NOT TO SCALE

NOTES:

- ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR.
- THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.
- RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
- ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUTDOORS-OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
- RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR LATTICE TOWERS WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. MANUFACTURER RECOMMENDED CABLE SUPPORT ACCESSORIES SHALL BE USED.
- THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.
- DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.
- ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.
- 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.
- USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURE AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. ADD THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.
- ANTENNAS SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.
- CABLE SHIELDS, AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER, WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 100 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 100 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.
- APPROVED GROUNDING KITS, WHICH INCLUDE GROUNDING STRAPS, SHALL BE USED TO GROUND THE COAXIAL CABLE SHIELDS, AND CONDUITS. THE GROUND CONDUCTORS FOR THE KITS AT THE TOP OF THE TOWER, AND IN THE MIDDLE SECTION OF THE TOWER, ARE BONDED DIRECTLY TO GROUND BAR USING EXOTHERMIC OR COMPRESSION CONNECTIONS.
- ALL RADIO SIGNAL CABLE SHALL BE LABELED PER MARKET REQUIREMENTS.
- ANTENNA FEED LINE SYSTEM SWEEP TESTING SHALL BE PERFORMED AND REPORTED IN ACCORDANCE WITH CARRIER REQUIREMENTS. CONTRACTOR WILL NOT ACCEPT A RADIO SIGNAL CABLE INSTALLATION WITH UNSATISFACTORY SWEEP TEST RESULTS. THERE SHALL ALSO BE A HARD COPY OF SWEEPS LEFT AT SITE UPON COMPLETION OF SWEEP TEST.

NOTES:

- ALL STEEL SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION." PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE MANUFACTURER'S STANDARD SADDLE CLAMPS & SCREWS (GALVANIZED).
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.
- ALL METAL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123. ALL SHOP WELDED MEMBERS SHALL BE GALVANIZED AFTER FABRICATION.

C4 STRUCTURAL STEEL NOTES
NOT TO SCALE

NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED ON ANY FILL OR EMBANKMENT.
- THE SUB-GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 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 AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- SUBCONTRACTOR TO PROVIDE COMBINATION LOCKS PER CARRIER SPECIFICATIONS.

A1 ELECTRICAL NOTES
NOT TO SCALE

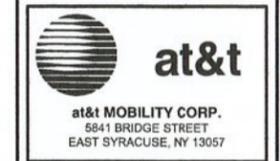
A2 NOT USED
NOT TO SCALE

A3 RF NOTES
NOT TO SCALE

A4 SITE WORK GENERAL NOTES
NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID**
FA#:1000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

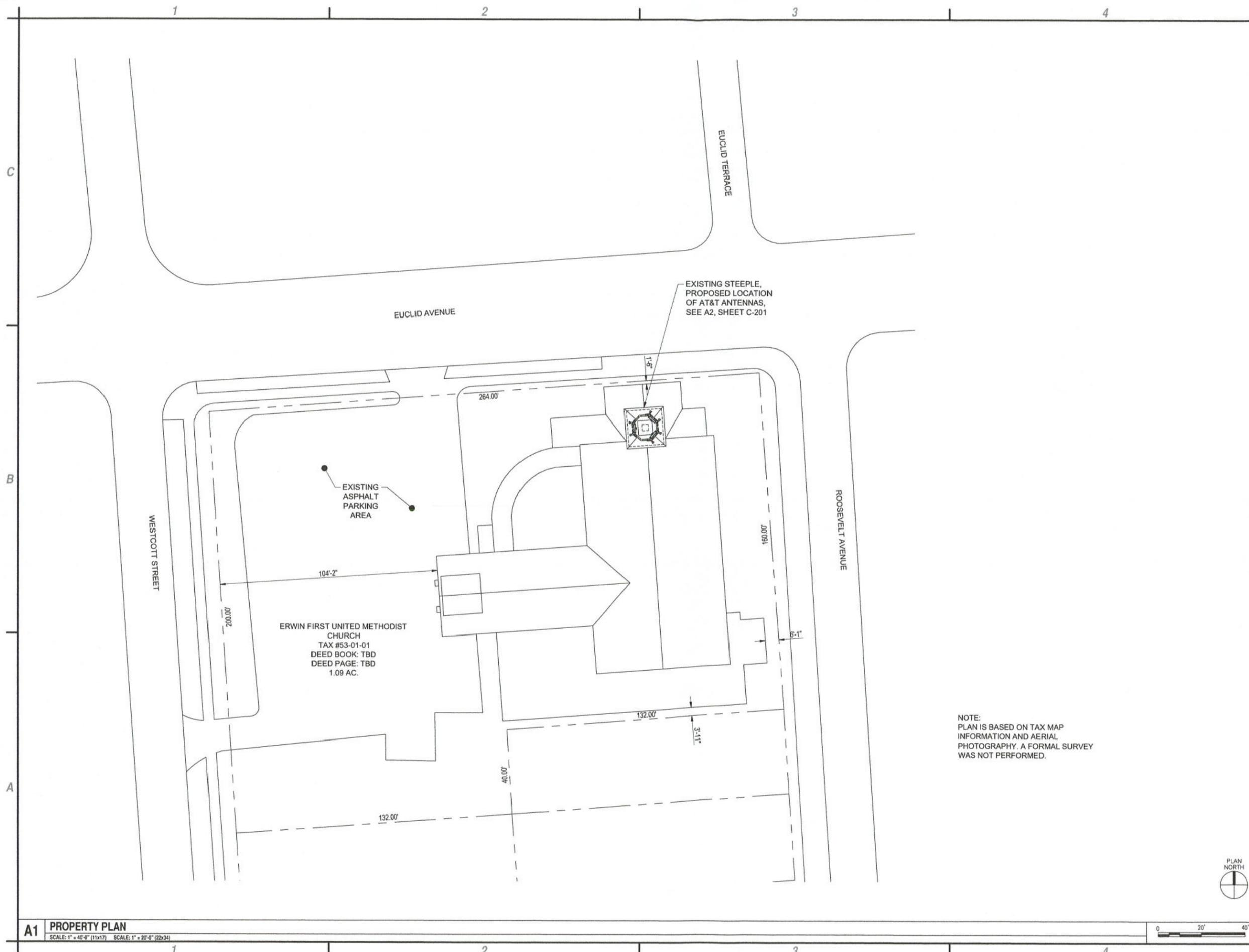
REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J. OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENIA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GENERAL NOTES

G-003

May 08, 2019 - 2:21pm
F:\Project\N25 - Centerline Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Project\Drawings\Sheet\Drawings\N25001002_G-003.dwg



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J. OSWALD
DESIGNED BY: -
CHECKED BY: E.N. KENNA, P.E.

NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

PROPERTY PLAN

C-100

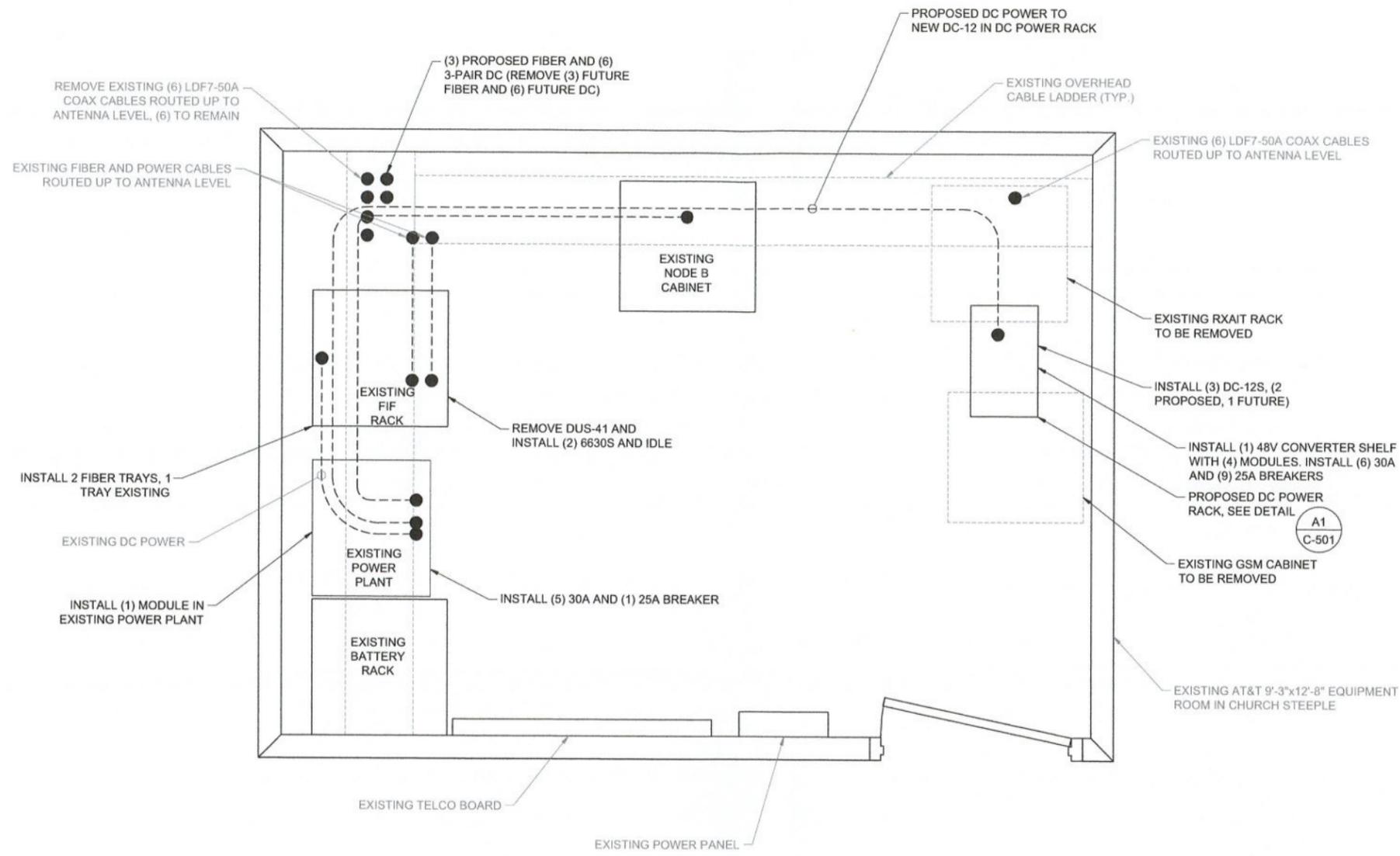
A1 PROPERTY PLAN
SCALE: 1" = 40'-0" (11x17) SCALE: 1" = 20'-0" (22x34)

1 2 3 4

C

B

A



NOTE:
ALL NEW CABLING TO BE ROUTED ON EXISTING CABLE RACKS. ROUTING DEPICTED UTILIZES EXISTING CABLE RACKS. EXISTING CABLE RACK LAYOUT NOT SHOWN FOR CLARITY.

- NOTES:**
1. THE CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON THE PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
 2. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES, INDICATING THE CIRCUITS ORIGINATION AND ALL EQUIPMENT TERMINATIONS.
 3. SUBCONTRACTOR SHALL PROVIDE ALL CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
 4. SUBCONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS, CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

A1
C-501



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

REVISIONS		
NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA/RRH REVISION

PROJECT NO: N25 001 002
DATE: JANUARY 2019
DRAWN BY: J OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

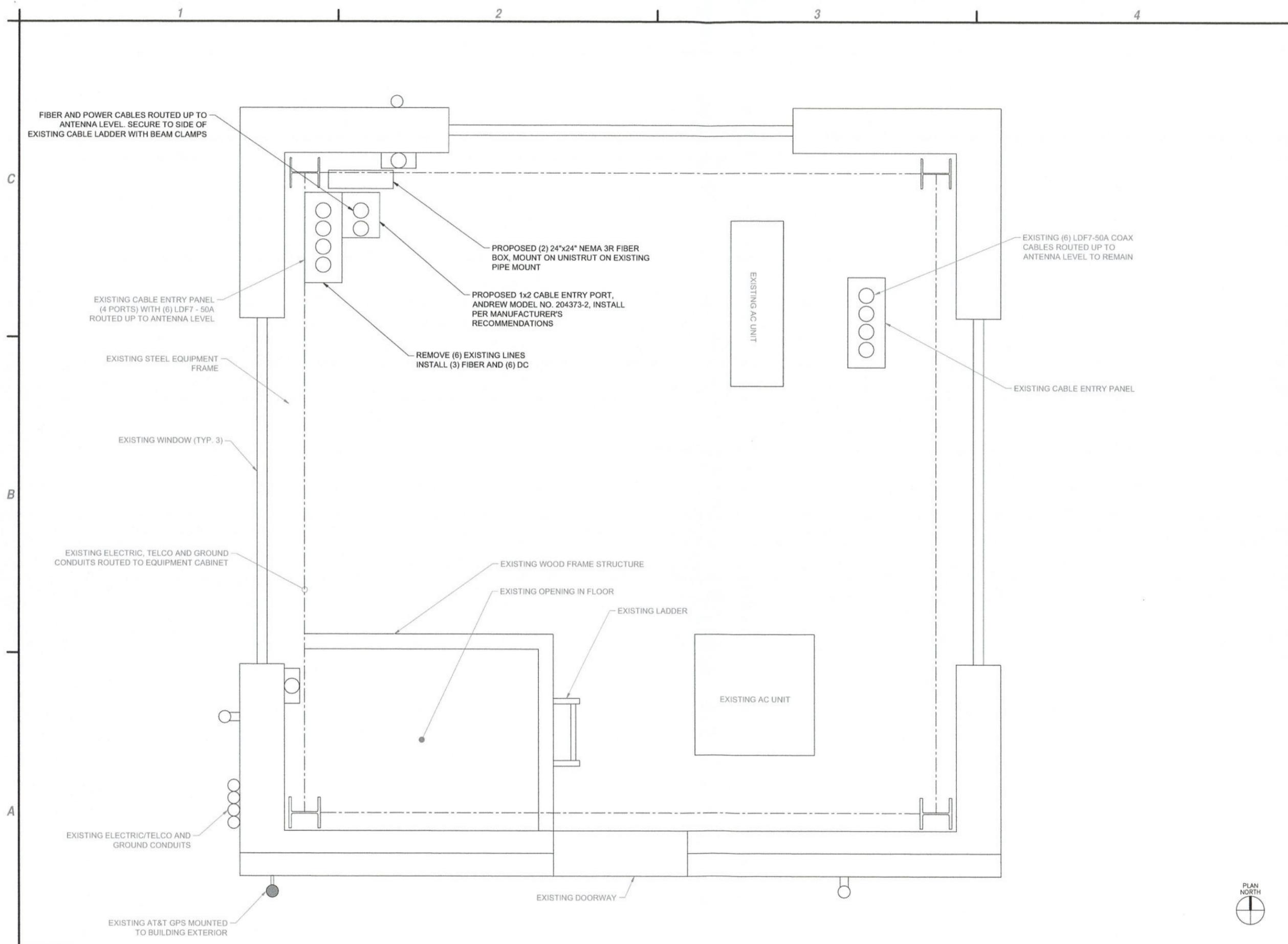
EQUIPMENT LAYOUT PLAN

C-101

A1 EQUIPMENT LAYOUT PLAN
SCALE: 1/2" = 1'-0"



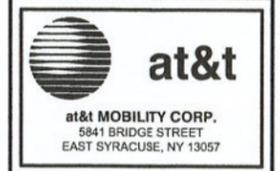
1 2 3 4



A3 STEEPLE PLAN
SCALE: 1/2" = 1'-0"



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID**
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA/RRH REVISION

REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J OSWALD
DESIGNED BY: -
CHECKED BY: E.N. KRINA, P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

STEEPLE PLAN

C-102

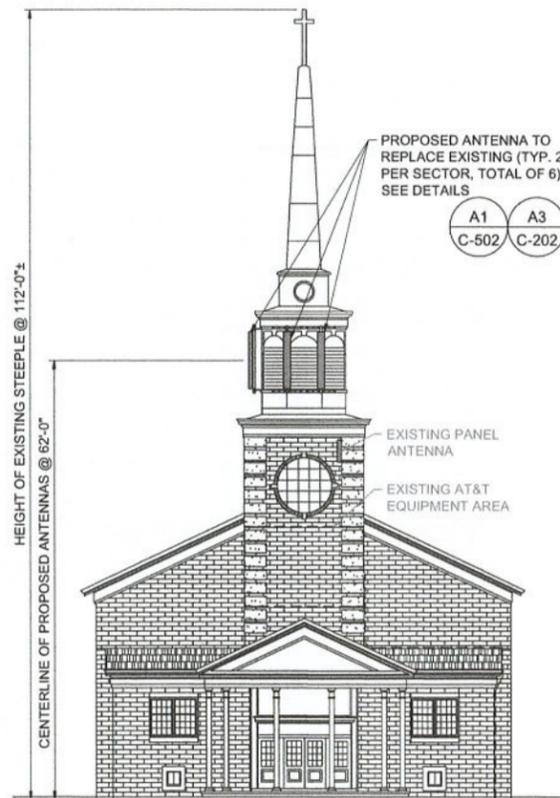
May 08, 2019 - 2:21 pm
 C:\Users\jswald\OneDrive\Documents\Projects\AT&T\Upstate NY\Euclid\3C\4C\5C\Construction\Sheet\Plan\N25001002_C-102.dwg
 AT&T LTE 3C/4C/5C Project - Euclid, Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Project - Euclid, Communications, LLC\N25001002_C-102.dwg

SECTOR	BAND	ANTENNA	ANTENNA ϵ HEIGHT	AZIMUTH	TMA	DIPLEXER	RRU	COAX CABLE	COAX LENGTH
ALPHA	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	30°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF7-50A (2)	34'±
	700 MHz/ PCS	(1) DBXNH-6565A	64'-0" AGL	30°	-	-	(1) RRUS - 11 (E), (1) RRUS - 12 (E)	FIBER	40'±
	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	30°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF7-50A (2)	34'±
BETA	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	130°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF7-50A (2)	34'±
	700 MHz/ PCS	(1) DBXNH-6565A	64'-0" AGL	130°	-	-	(1) RRUS - 11 (E), (1) RRUS - 12 (E)	FIBER	40'±
	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	130°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF7-50A (2)	34'±
GAMMA	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	270°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF7-50A (2)	34'±
	700 MHz/ PCS	(1) DBXNH-6565A	64'-0" AGL	270°	-	-	(1) RRUS - 11 (E), (1) RRUS - 12 (E)	FIBER	40'±
	850 MHz/ 1900MHz	(1) DBXLH-8585A	59'-6" AGL	270°	(1) ETD819HS-12UB	(3) KMW-KDXCV0012017	-	LDF750A (2)	34'±

PROPOSED LTE RRU & CABLE SCHEDULE						
SECTOR	FIBER TRUNK	SINGLE FIBER	DC 3 PAIR	DC SINGLE PAIR	RRU'S	COAX JUMPER
ALPHA	(1) (P) 15 METER	(2) (E) (3) (P) 5 METER	(2) (P) 45 FEET	(5) (P) 8 AWG, 15'	8843 B2/B66A	2 (E)
					4449 B5/B12	2 (E)
					B14 4478	2 (P)
					4415 B30	2 (F)
					4415 B25	2 (F)
					8843 B2/B66A	2 (E)
BETA	(1) (P) 15 METER	(2) (E) (3) (P) 5 METER	(2) (P) 45 FEET	(5) (P) 8 AWG, 15'	4449 B5/B12	2 (E)
					B14 4478	2 (P)
					4415 B30	2 (F)
					4415 B25	2 (F)
					8843 B2/B66A	2 (E)
					4415 B30	2 (F)
GAMMA	(1) (P) 15 METER	(2) (E) (3) (P) 5 METER	(2) (P) 45 FEET	(5) (P) 8 AWG, 15'	4449 B5/B12	2 (E)
					B14 4478	2 (P)
					4415 B30	2 (F)
					4415 B25	2 (F)
					8843 B2/B66A	2 (E)
					4415 B25	2 (F)

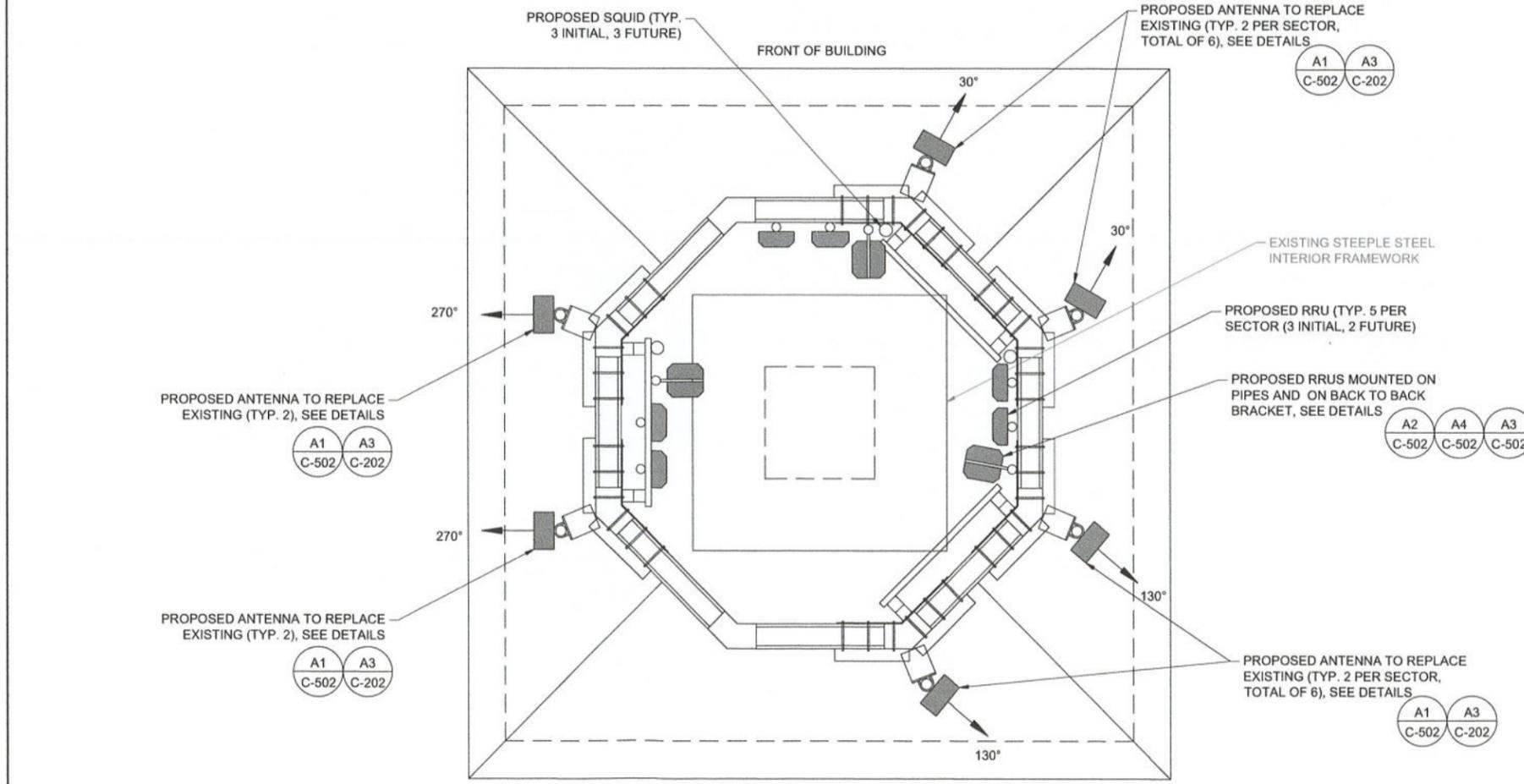
PROPOSED ANTENNA AND EQUIPMENT								
SECTOR	BAND	ANTENNA	ANTENNA ϵ HEIGHT	AZIMUTH	TMA	RRU	ANTENNA CABLE	CABLE LENGTH
ALPHA	PCS/AWS	(1) NNH4-65C-R6	(P)	62'-0" AGL	30°	(1) 8843 B2/B66A (P), (1) 4449 B5/B12 (P)	FIBER (P)	40'± (E)
	850 MHz / 1900MHz	(1) NNH4-65C-R6	(P)	62'-0" AGL	30°	(1) E15Z01P13 (P)	(1) B14 4478 (P), (1) 4415 B30 (F), (1) 4415 B25 (F)	LDF7-50A (2) (E)
BETA	PCS/AWS	(1) NNH4-65C-R6	(P)	62'-0" AGL	130°	(1) 8843 B2/B66A (P), (1) 4449 B5/B12 (P)	FIBER (E)	40'± (E)
	700 MHz	(1) NNH4-65C-R6	(P)	62'-0" AGL	130°	(1) E15Z01P13 (P)	(1) B14 4478 (P), (1) 4415 B30 (F), (1) 4415 B25 (F)	LDF7-50A (2) (E)
GAMMA	PCS/AWS	(1) NNH4-65C-R6	(P)	62'-0" AGL	270°	(1) 8843 B2/B66A (P), (1) 4449 B5/B12 (P)	FIBER (P)	40'± (E)
	850 MHz / 1900MHz	(1) NNH4-65C-R6	(P)	62'-0" AGL	270°	(1) E15Z01P13 (P)	(1) B14 4478 (P), (1) 4415 B30 (F), (1) 4415 B25 (F)	LDF7-50A (2) (E)

C1 EXISTING/PROPOSED TABLES
NOT TO SCALE



NOTE:
PAINT ALL ANTENNAS, MOUNTING
HARDWARE AND EXTERIOR CABLE RUNS
TO MATCH EXISTING BUILDING

A1 STEEPLE ELEVATION
NOT TO SCALE



A2 PROPOSED ANTENNA FRAME DETAIL
SCALE: 1/4" = 1'-0"



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#: 10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA/RRH REVISION

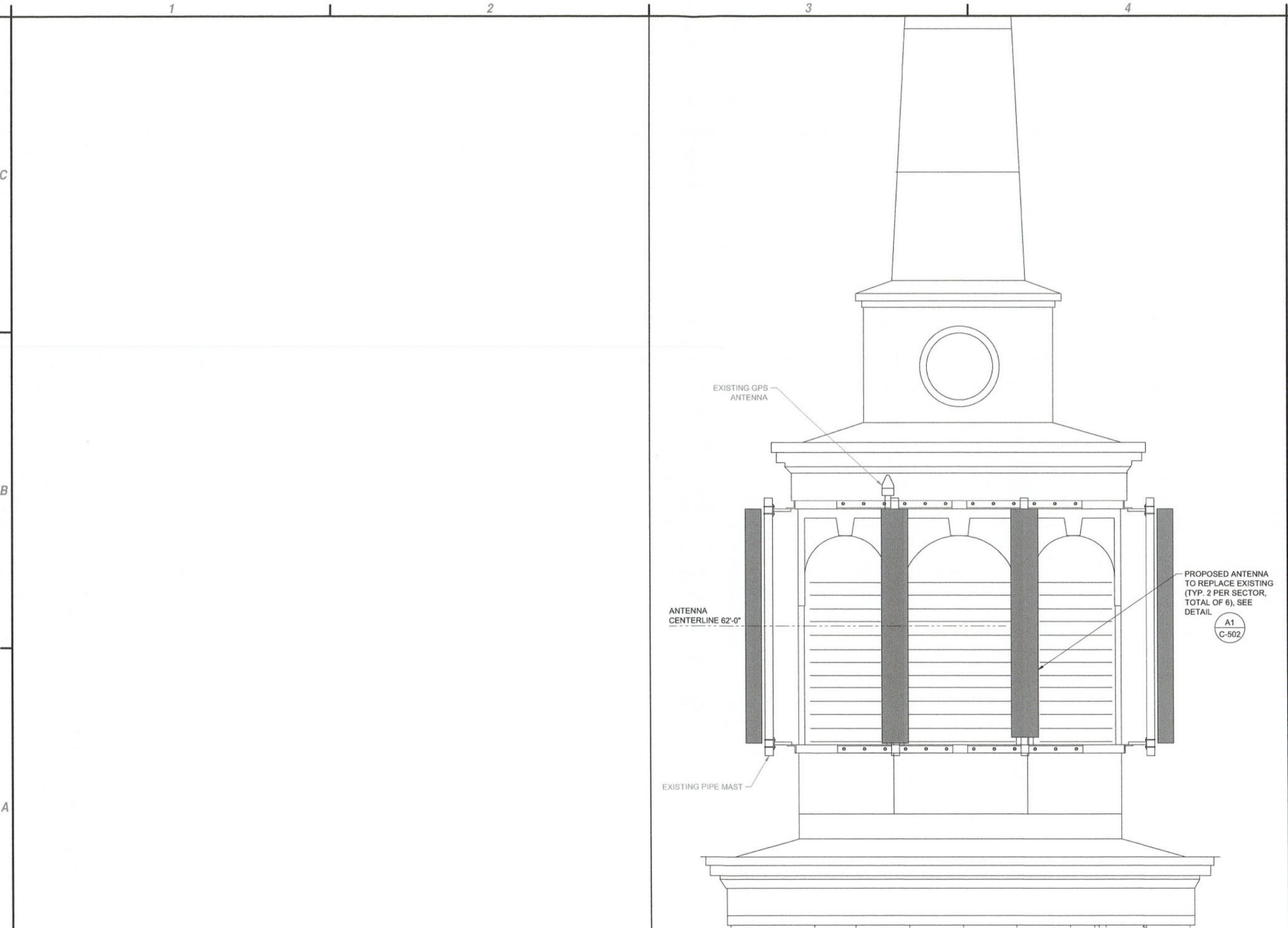
REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: R. AZZOTO
DESIGNED BY: -
CHECKED BY: E. N. KENNA, P.E.

NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

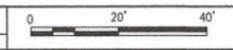
ELEVATION

C-201

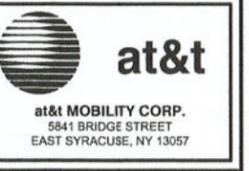


A1 NOT USED
SCALE: 1" = 20'-0" (22x34) 1" = 10'-0" (11x17)

A3 STEEPLE ELEVATION
SCALE: 1" = 20'-0" (22x34) 1" = 10'-0" (11x17)



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#: 10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

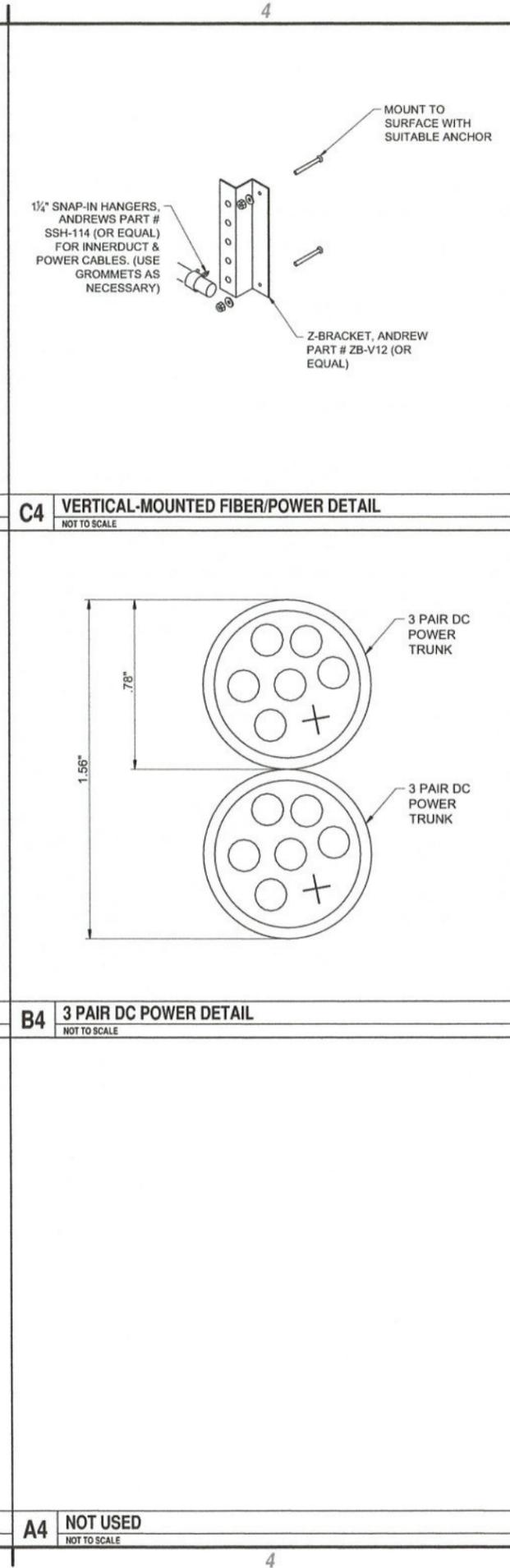
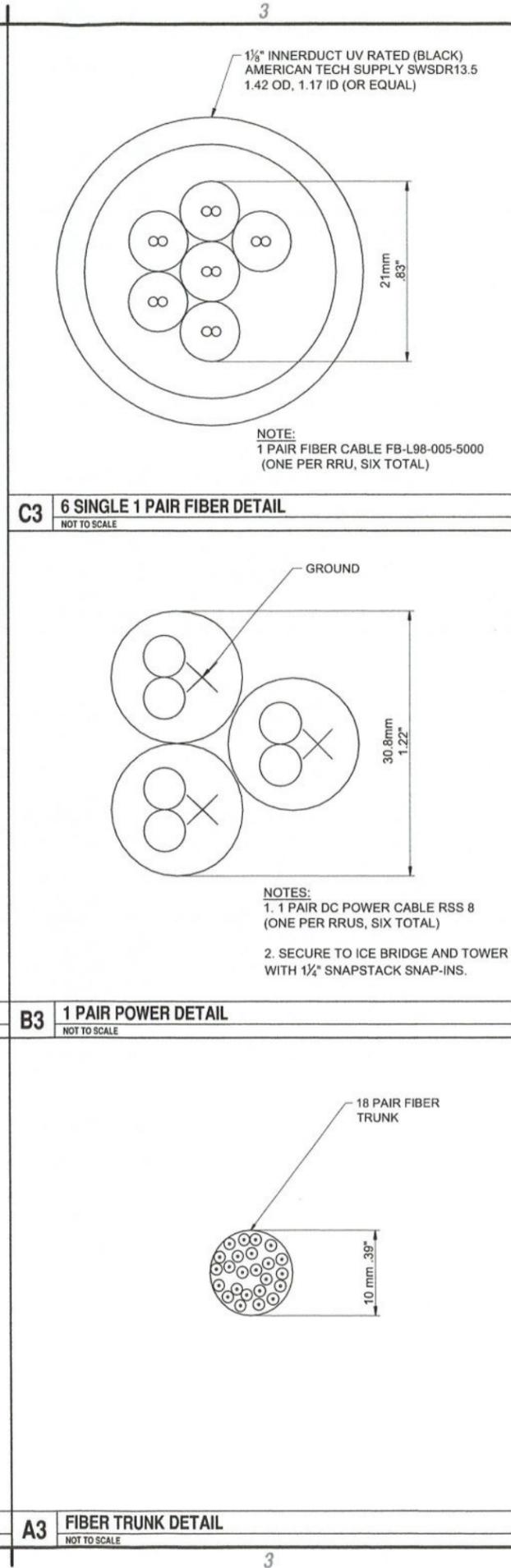
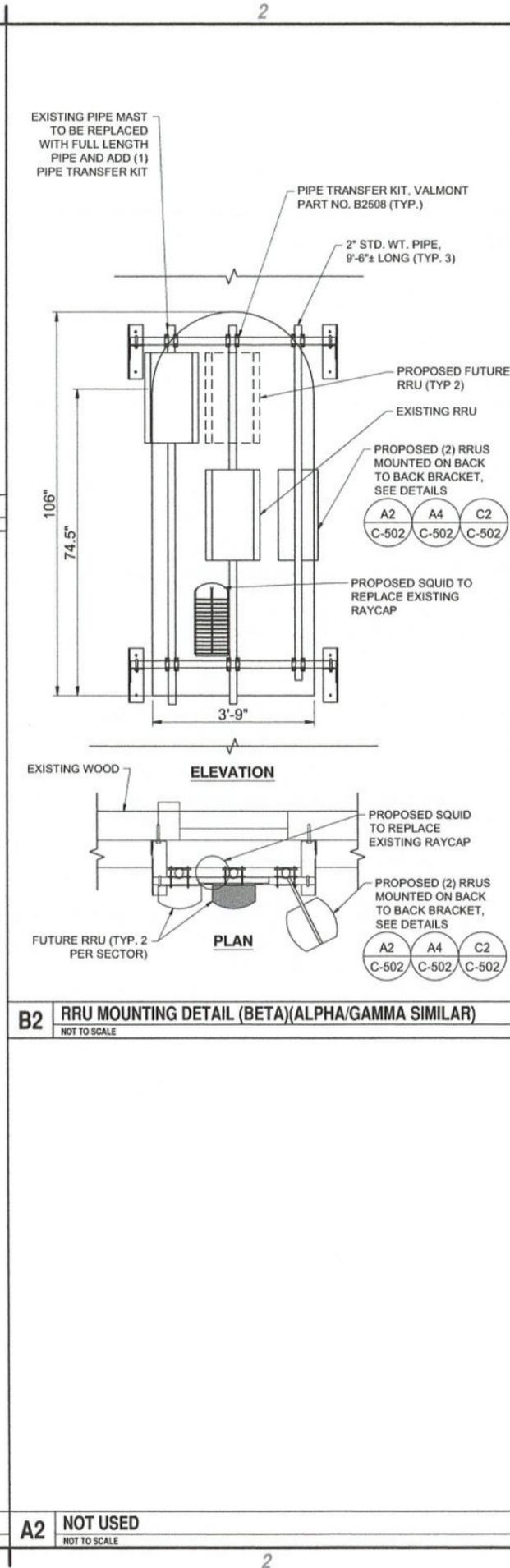
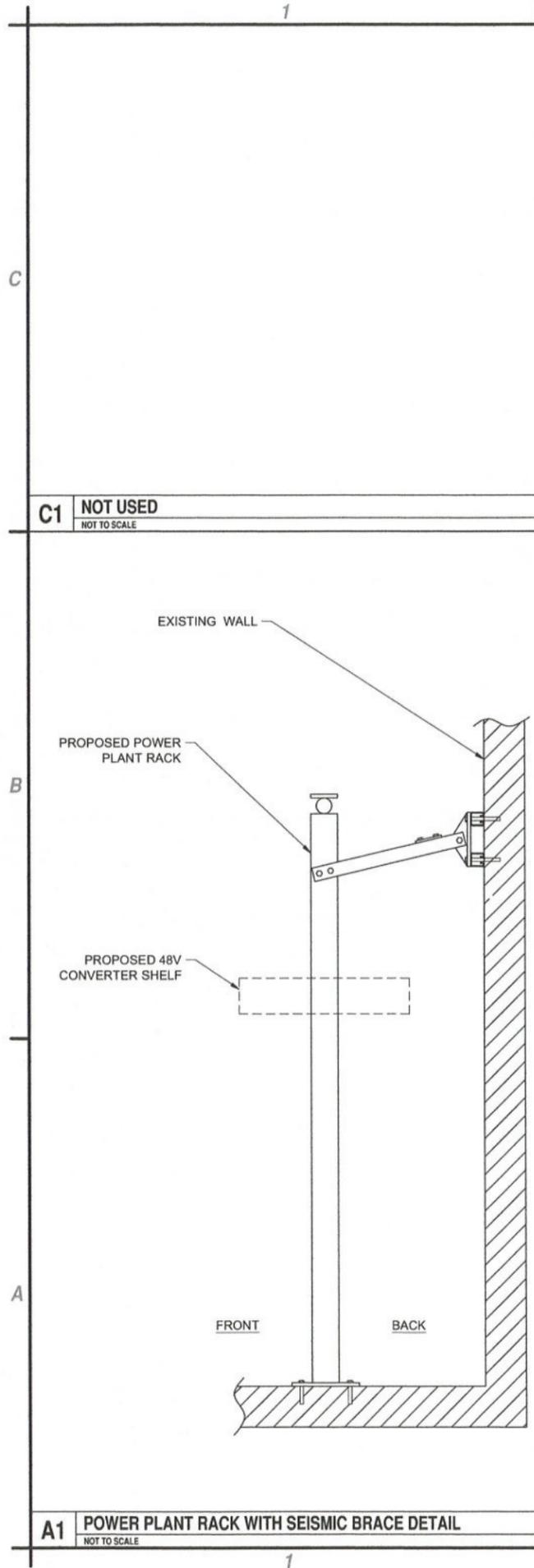
NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA/RRH REVISION

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: R. AZZOTO
DESIGNED BY: -
CHECKED BY: E.N. KBINA, P.E.
NO ALTERATION PERMITTED HEREON
EXCEPT AS PROVIDED UNDER SECTION
7209 SUBDIVISION 2 OF THE NEW YORK
EDUCATION LAW

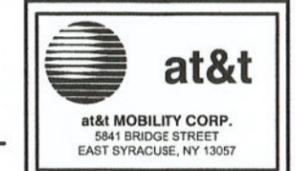
**STEEPLE
ELEVATION**

C-202

May 08, 2019 - 2:27pm
 P:\Project\N25 - Centerline Communications - LLC\N25-001-002 - 11x17 - 11x17 - 20' Centerline\Sheet\A3\A3-01.dwg
 Construction Sheet Plot: C:\Users\N2501002-C-202.dwg



C&S Engineers, Inc.
 499 Col. Eileen Collins Blvd.
 Syracuse, New York 13212
 Phone: 315-455-2000
 Fax: 315-455-9667
 www.cscos.com



**AT&T UPSTATE NY
 EUCLID**
FA#: 1000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA/RRH REVISION

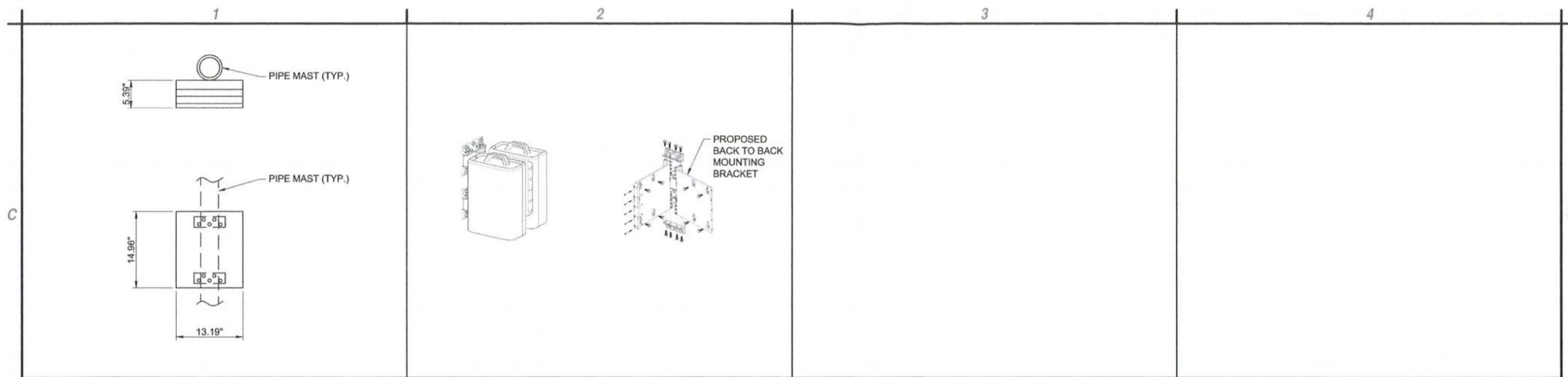
PROJECT NO: N25.001.002
 DATE: JANUARY 2019
 DRAWN BY: R. AZZOTO
 DESIGNED BY: -
 CHECKED BY: E.N. KBINA, P.E.

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

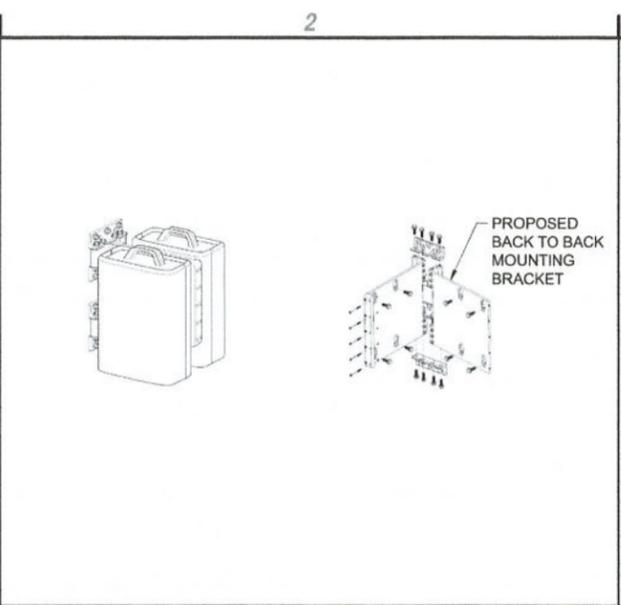
DETAILS

C-501

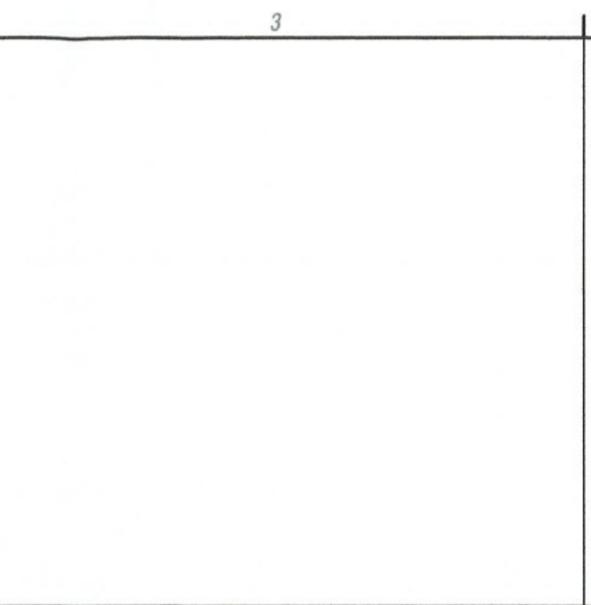
May 08, 2019 - 2:22pm
 P:\Project\N25 - Centerline Communications - LCC\N25\001\002 - LTE 3C/4C/5C - Construction\Sheet - Final\Cad\N2501002_C-501.dwg



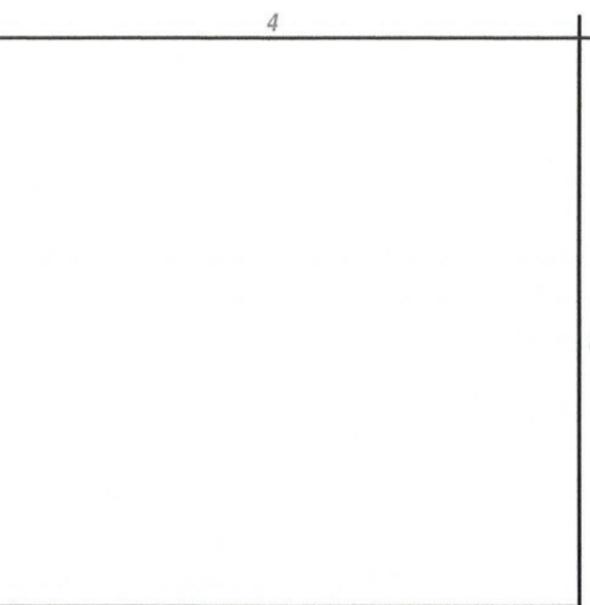
C1 RRH-4415 B30 DETAIL
NOT TO SCALE



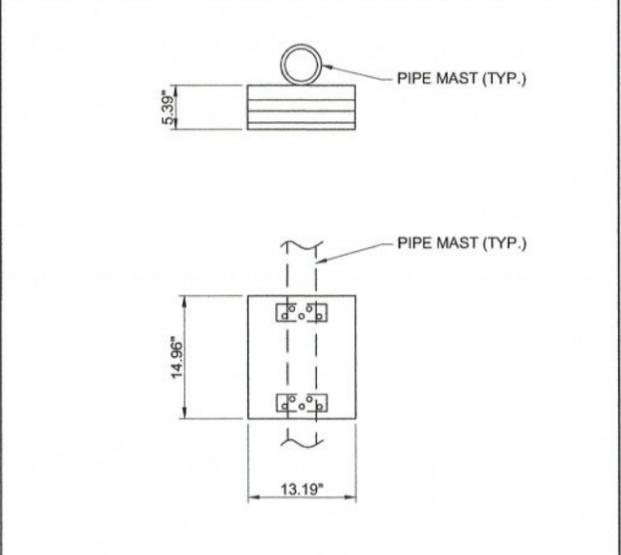
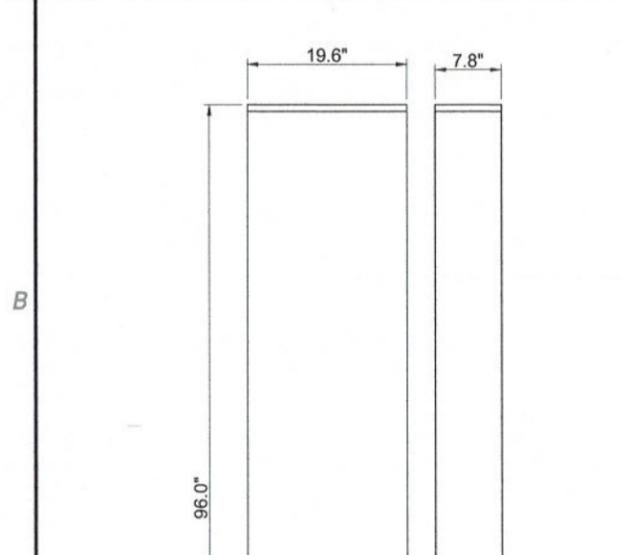
C2 RRU MOUNTING DETAIL
NOT TO SCALE



C3 NOT USED
NOT TO SCALE



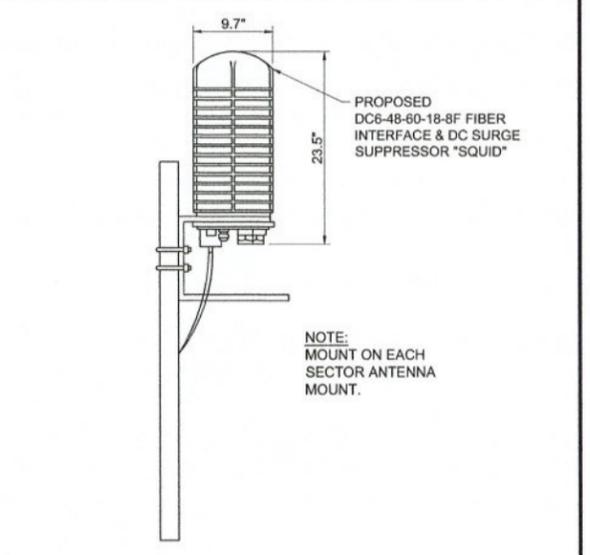
C4 NOT USED
NOT TO SCALE



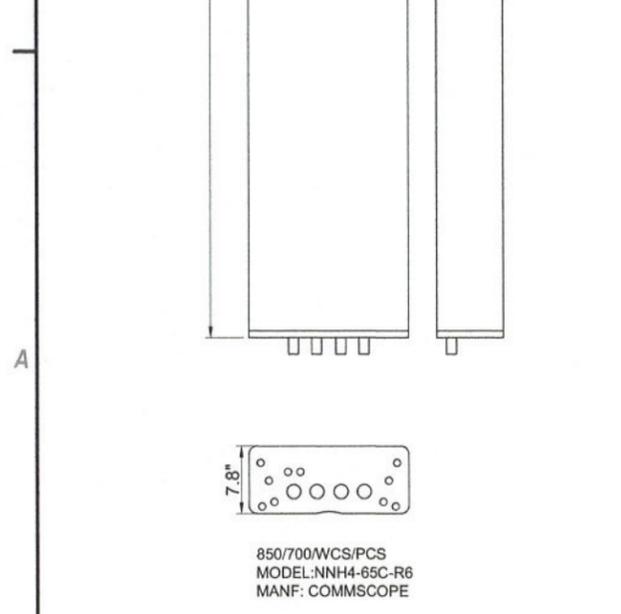
B2 RRH-4415 B25 DETAIL
NOT TO SCALE



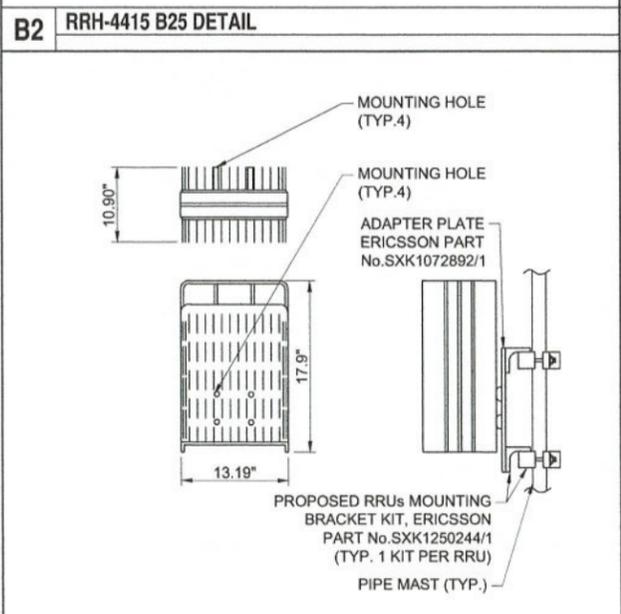
B3 NOT USED
NOT TO SCALE



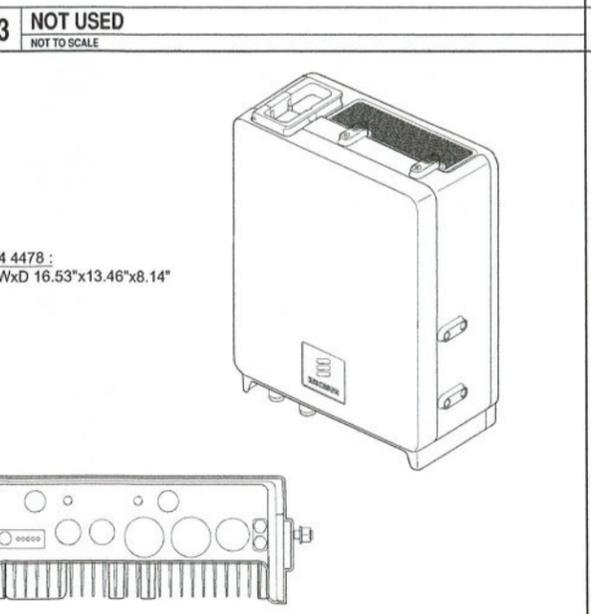
B4 SQUID DETAIL
NOT TO SCALE



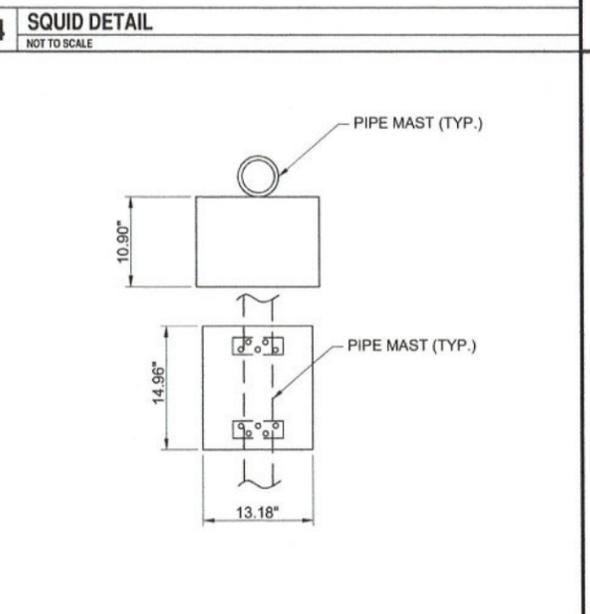
A1 PANEL ANTENNA DETAIL
NOT TO SCALE



A2 RRH-4449 B5/B12 DETAIL
NOT TO SCALE



A3 RRU-B14 4478 DETAIL
NOT TO SCALE



A4 RRH-8843 B2 B66 DETAIL
NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



at&t MOBILITY CORP.
6641 BRIDGE STREET
EAST SYRACUSE, NY 13057



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J. OSWALD
DESIGNED BY: -
CHECKED BY: E.N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

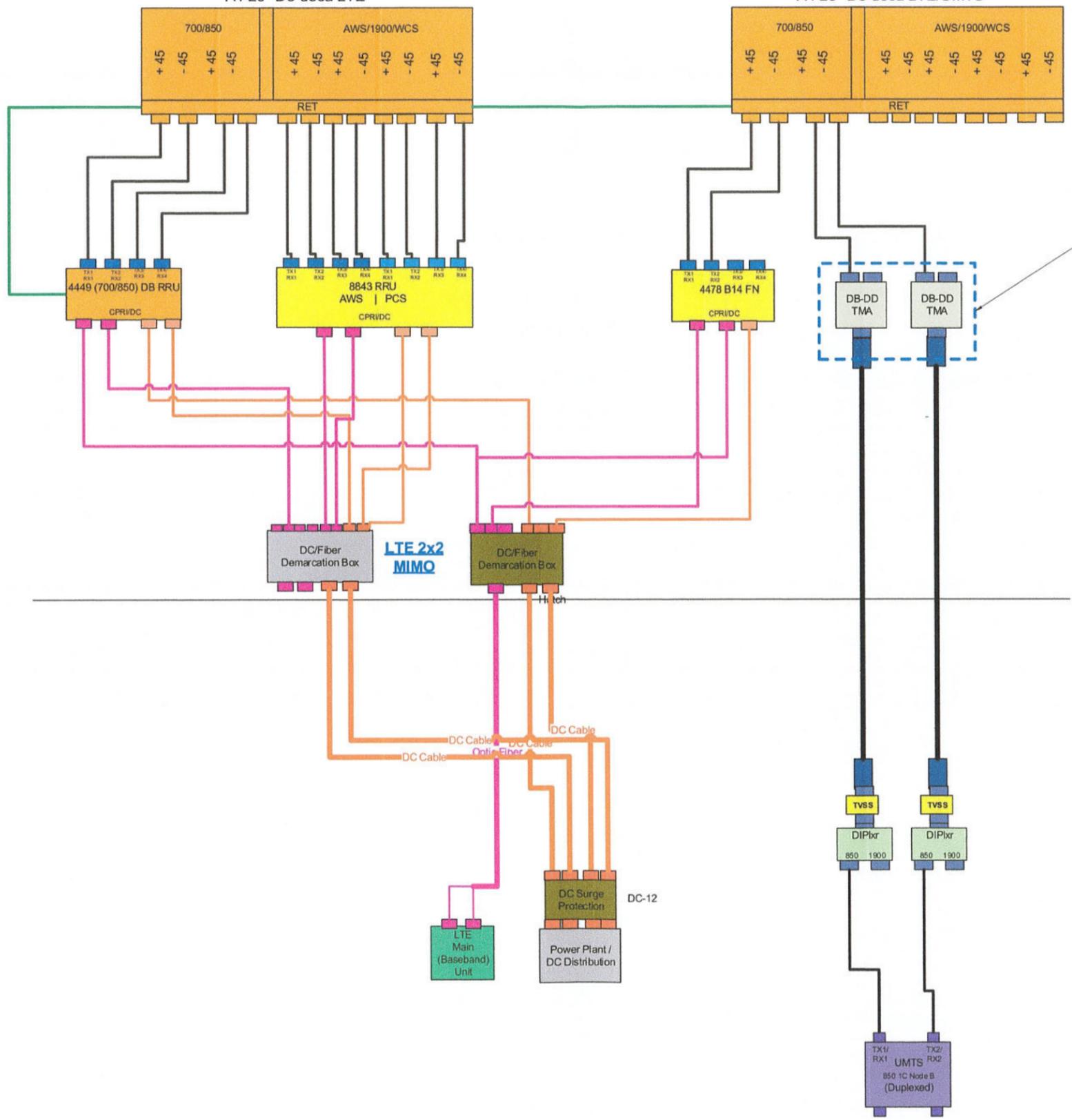
DETAILS

C-502

May 08, 2019 - 2:22pm
 F:\Project\N25 - Centerline Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Construction\Sheet Files\Conf\N25001002_C-502.dwg

A1 20" Do-deca LTE

A4 20" Do-deca LTE/UMTS



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRR REVISION

REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J. OSWALD
DESIGNED BY:
CHECKED BY: E. N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

RF PLUMBING DIAGRAM

T-601

CABLE MARKING LOCATIONS TABLE	
NO	LOCATIONS
1	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS. JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3	CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

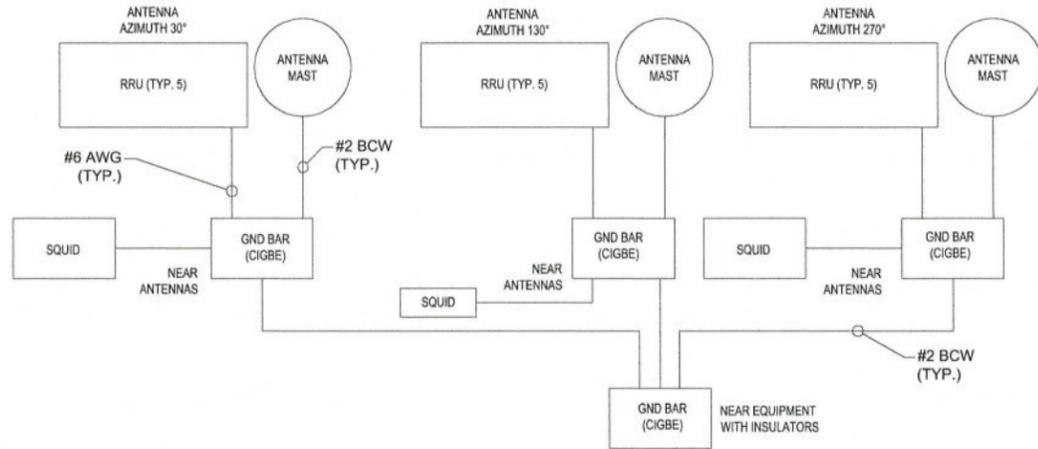
COAX COLOR CODING & IDENTIFICATION NOTES

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION TO REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THE PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES-RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136/TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-0027. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THE GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-3S AND SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 1/2" OF SPACE BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.

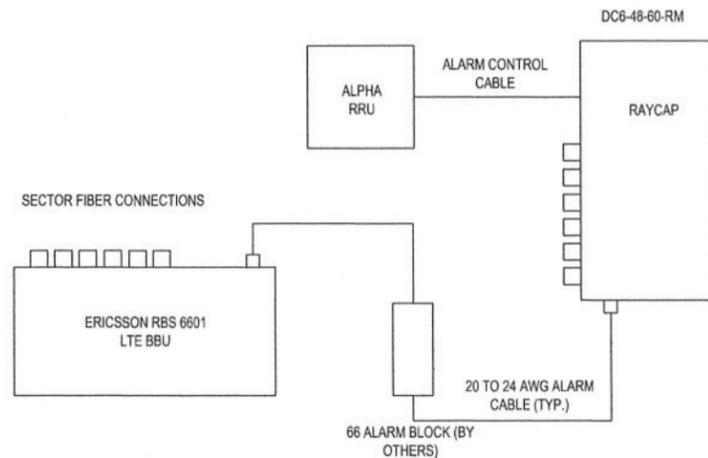
COAX COLOR CODING & IDENTIFICATION NOTES CONT.

- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.
- CABLE MARKING TAGS**
- WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1 1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATING THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER. THE ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

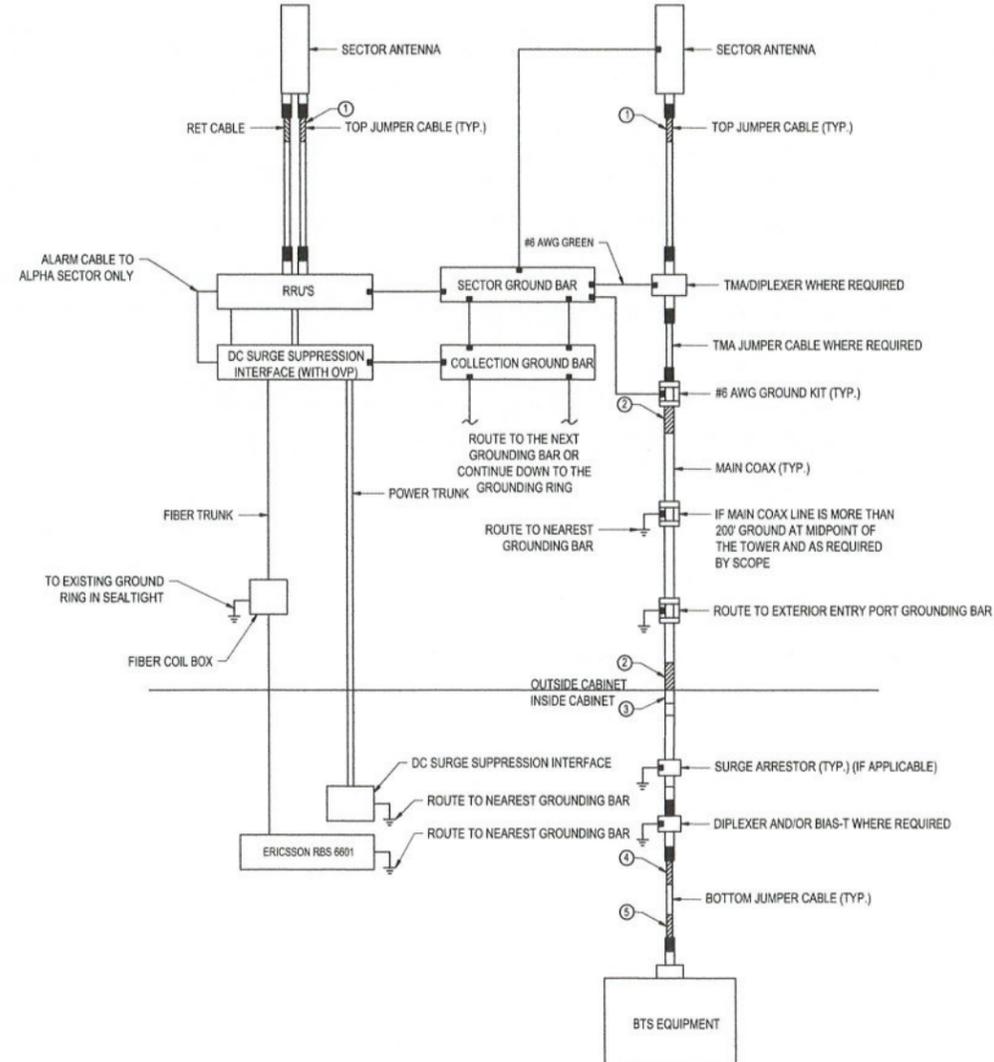
C1 CABLE MARKING LOCATIONS TABLE AND NOTES
NOT TO SCALE



B1 SCHEMATIC DIAGRAM GROUNDING SYSTEM
NOT TO SCALE



A1 ALARM BLOCK CONNECTIONS
NOT TO SCALE



A3 CABLE MARKING LOCATIONS DIAGRAM
NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

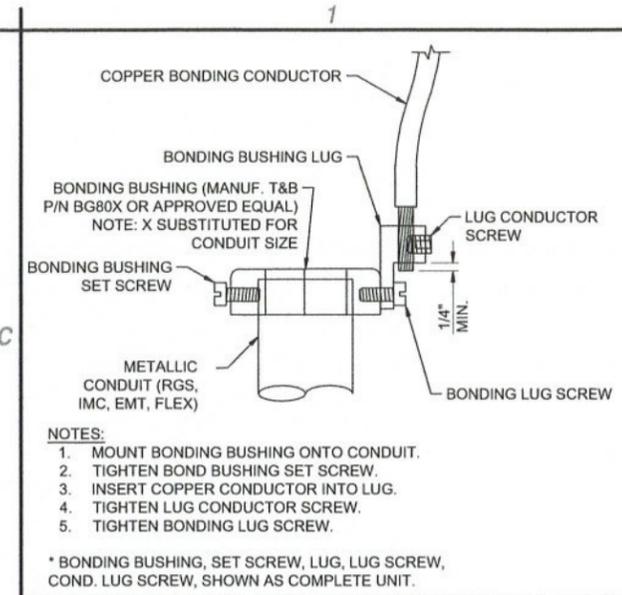
NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNA RRRH REVISION

REVISIONS

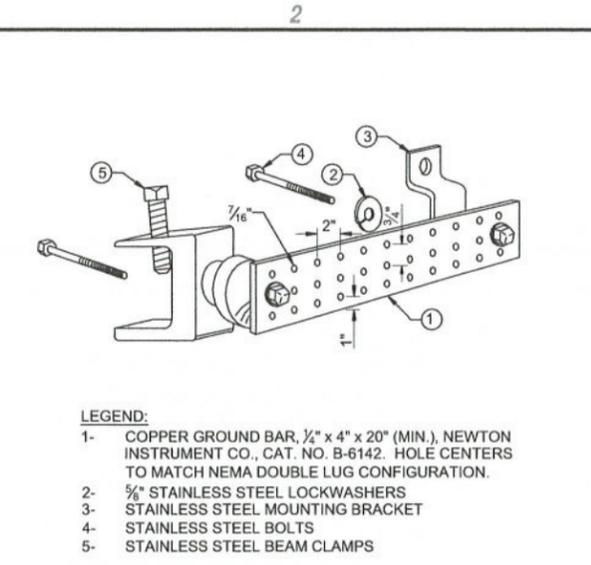
PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

**SCHEMATICS,
DIAGRAMS AND
NOTES**

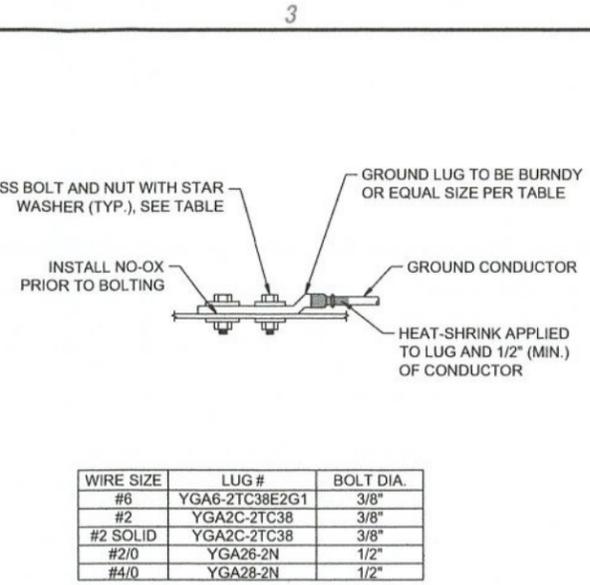
T-602



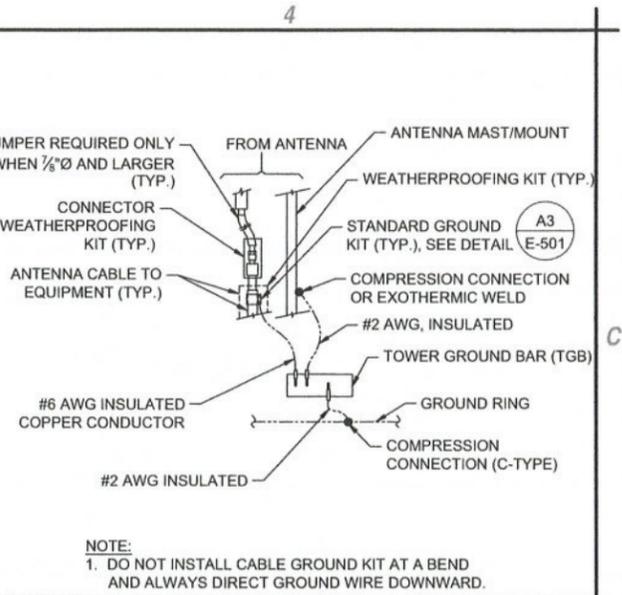
C1 CONDUIT BOND / GROUND BUSHING
NOT TO SCALE



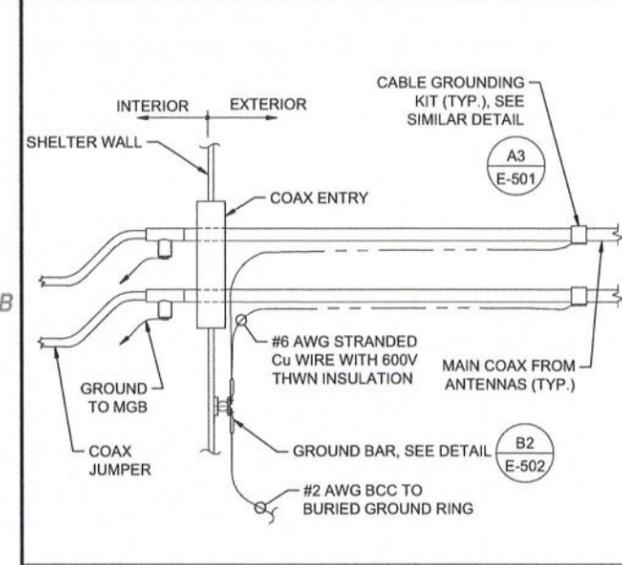
C2 ANTENNA GROUND BAR DETAIL
NOT TO SCALE



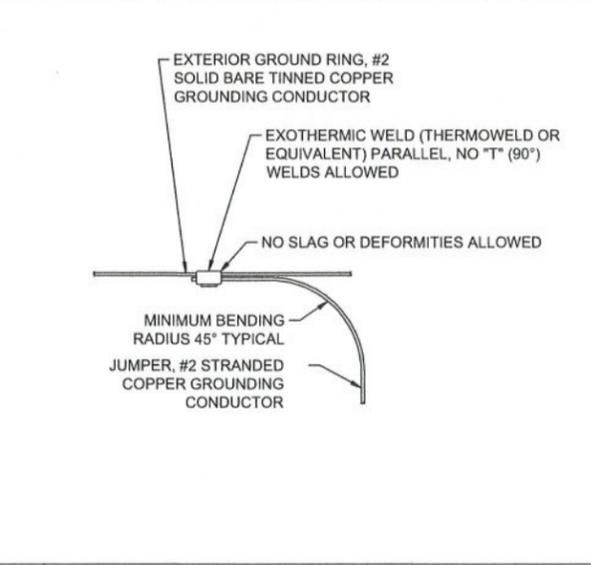
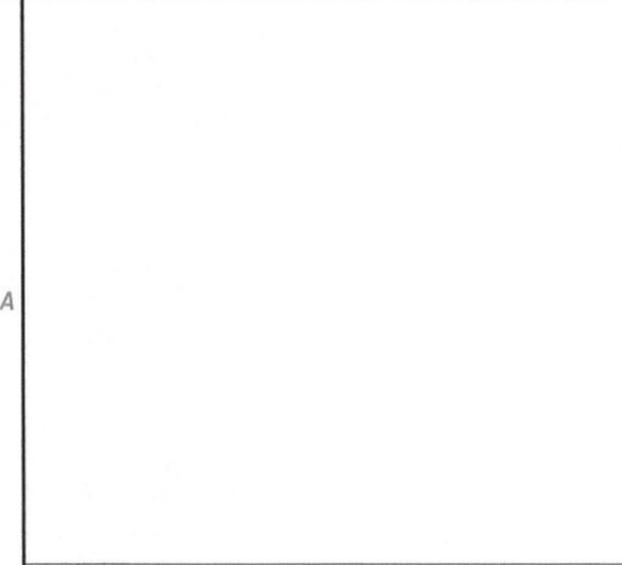
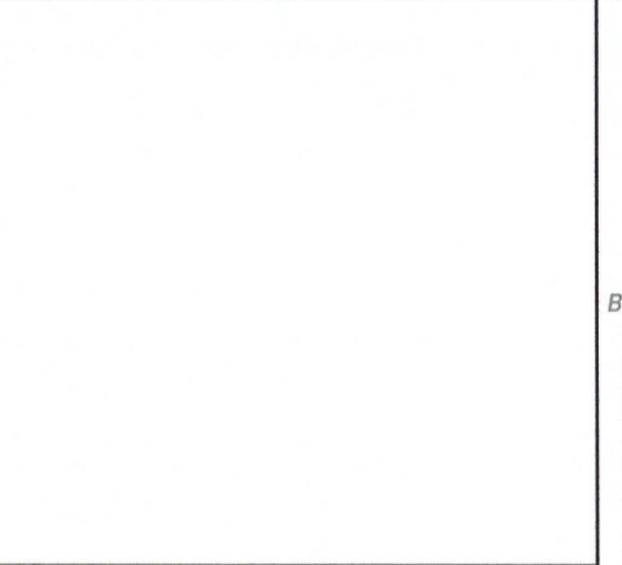
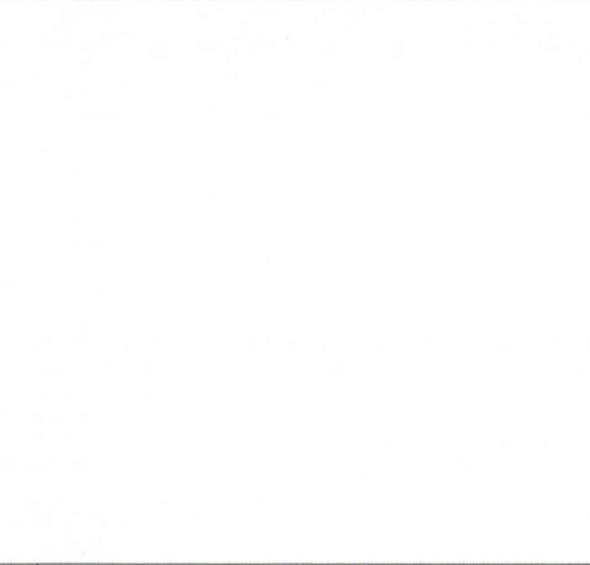
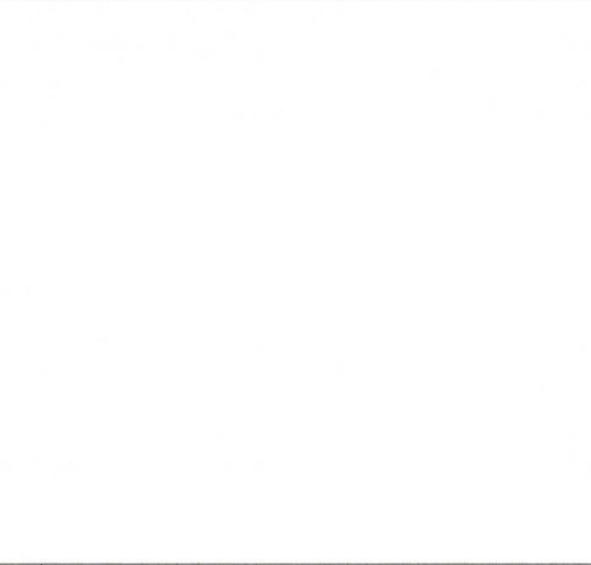
C3 TWO HOLE LUG GROUND CONNECTION
NOT TO SCALE



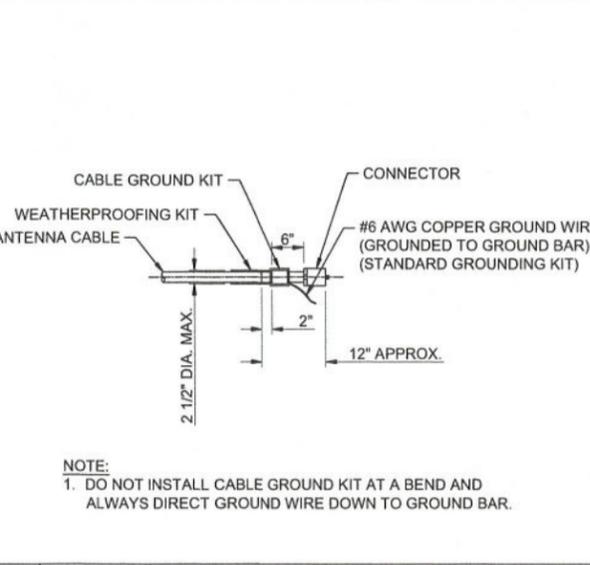
C4 GROUNDING BAR CONNECTION
NOT TO SCALE



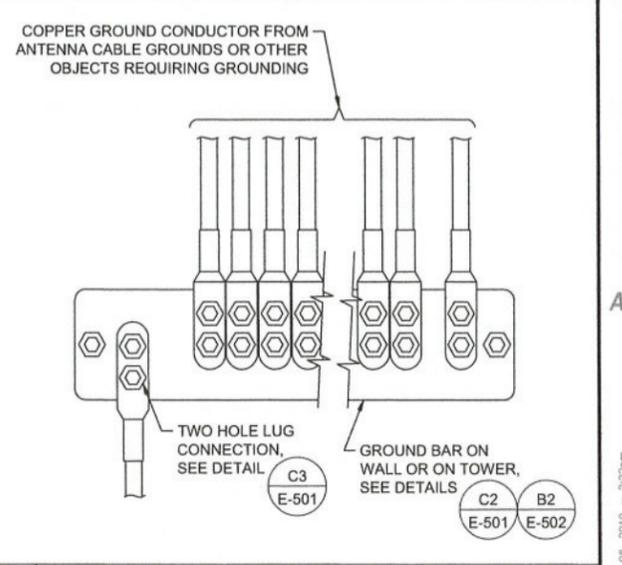
B1 EXTERIOR ANTENNA CABLE GROUND AT COAX ENTRY
NOT TO SCALE



A2 TYPICAL GROUNDING CONNECTION DETAIL
NOT TO SCALE



A3 CABLE GROUND KIT CONNECTION
NOT TO SCALE



A4 INSTALLATION OF CONDUCTOR TO GROUNDING BAR
NOT TO SCALE



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

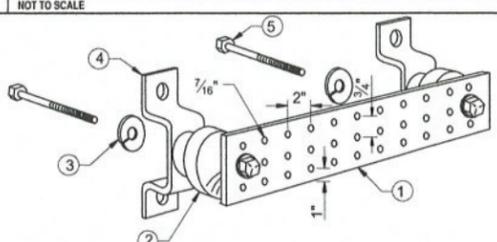
REVISIONS

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

**GROUNDING
DETAILS**

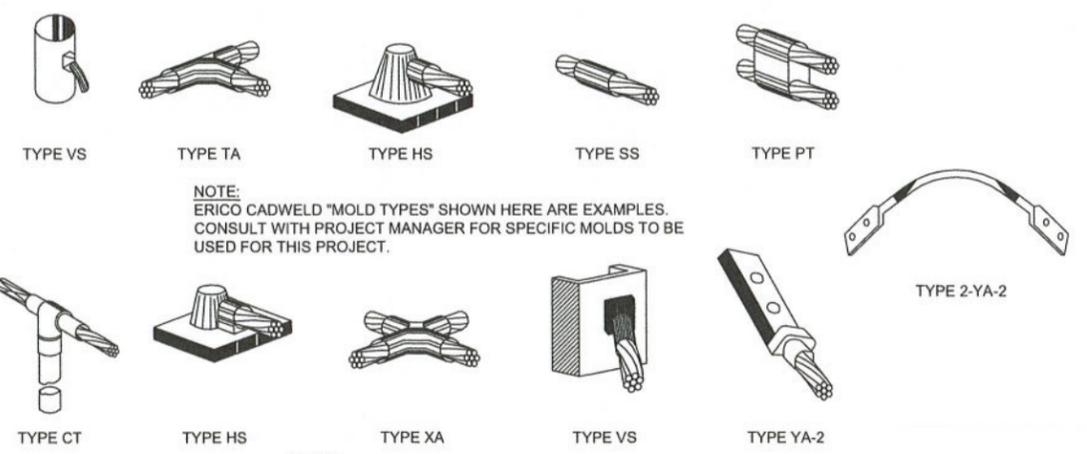
E-501

	1	2	3	4			
C							
C1	NOT USED NOT TO SCALE	C2	NOT USED NOT TO SCALE	C3	NOT USED NOT TO SCALE	C4	NOT USED NOT TO SCALE



- LEGEND:**
- 1- COPPER GROUND BAR, 1/4" x 4" x 20" (MIN.), NEWTON INSTRUMENT CO., CAT. NO. B-6142. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - 2- INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 3061-4
 - 3- 5/8" STAINLESS STEEL LOCKWASHERS.
 - 4- STAINLESS STEEL MOUNTING BRACKET.
 - 5- STAINLESS STEEL BOLTS.
 - 6- GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY.
 - 7- GROUND BARS SHALL BE NEITHER FIELD FABRICATED NOR NEW HOLES DRILLED.
 - 8- GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR.
 - 9- HARDWARE DIAMETER SHALL BE MINIMUM 3/8".

B							
B1	NOT USED NOT TO SCALE	B2	EXTERNAL GROUND BAR (EGB) DETAIL NOT TO SCALE	B3	NOT USED NOT TO SCALE	B4	NOT USED NOT TO SCALE



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

NOTE:
USE AS REQUIRED BASED ON SITE SPECIFIC CONDITIONS.

A				
A1	EXOTHERMIC WELD DETAILS NOT TO SCALE	A3	NOT USED NOT TO SCALE	



C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com



**AT&T UPSTATE NY
EUCLID
FA#:10000806 / SITE ID: 0070
LTE 3C/4C/5C PROJECT**

NO.	DATE	DESCRIPTION
2	5-8-19	ISSUED FOR PERMITTING
1	4-5-19	ANTENNARRH REVISION

PROJECT NO: N25.001.002
DATE: JANUARY 2019
DRAWN BY: J. OSWALD
DESIGNED BY:
CHECKED BY: E.N. KENNA, P.E.
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GROUNDING DETAILS

E-502

May 08, 2019 - 2:23pm
F:\Project\N25 - Centerline Communications, LLC\N25.001.002 - AT&T LTE 3C/4C/5C Project\Drawings\Sheet Files\Electrical\N25001002_E-502.dwg