

Jack Andrews
Zoning Manager, Empire Telecom o/b/o AT&T Wireless
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

January 25, 2019

General Manager
Clear Channel Broadcasting
495 Benhaven Street
New Haven, CT 06514

RE: AT&T Wireless Modifications to Telecommunication Facility –
Clear Channel Tower at 360 Gaylord Mountain Road, Hamden, CT 06518
AT&T Site CT5663

Dear General Manager:

In order to accommodate technological changes, implement the Uniform Mobile Telecommunications System and enhance system performance in the State of Connecticut, AT&T Wireless ("AT&T") will be installing replacement fiber optic cable at the above referenced telecommunications facility. AT&T Wireless currently maintains a wireless telecommunications facility on an existing 625 foot tall lattice tower located at 360 Gaylord Mountain Road, in Hamden, CT. The tower is owned by Clear Channel Broadcasting. The property is likewise owned by Clear Channel Broadcasting.

AT&T Wireless now seeks to install new fiber optic cable at this site, which requires installing one new Purcell cabinet; removal of one existing GSM cabinet; installing one new hand hole; installing two new 50 amp DC drops; installing 1350 feet of innerduct; and installing Maxell tape in conduit.

No work or alterations will be performed on the tower or on any equipment attached thereto. Empire Telecommunications USA LLC has been tasked with laying the infrastructure for the new fiber optic cable; actual installation of the new fiber optic cable will be performed by a cable provider at a later date.

As required by the Regulations of Connecticut State Agencies ("RCSA") section 16-50j-73, the Connecticut Siting Council ("CSC") has been notified of the proposed changes and will review AT&T's proposal. Please accept this letter as notification to the property owner under RCSA section 16-50j-73 of construction which constitutes an exempt modification pursuant to RCSA section 16-50j-72(b)(2).

The enclosed letter to the CSC fully describes AT&T's proposal for the above referenced site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachman, Acting Executive Director of the CSC at 860-872-2935.

Respectfully submitted,



Jack Andrews
Zoning Manager, Empire Telecom
o/b/o AT&T Wireless
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144
jandrews@empiretelecomm.com

Enclosures

cc: Melanie Bachman, Connecticut Siting Council

Jack Andrews
Zoning Manager, Empire Telecom o/b/o AT&T Wireless
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

January 25, 2019

Daniel W. Kops, Jr., Hamden Town Planner
Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518-3320

RE: Modifications to Telecommunication Facility - 360 Gaylord Mountain Road, Hamden, CT 06518
AT&T Site CT5663

Dear Mr. Kops:

In order to accommodate technological changes, implement the Uniform Mobile Telecommunications System and enhance system performance in the State of Connecticut, AT&T Wireless ("AT&T") will be installing replacement fiber optic cable at the above referenced telecommunications facility. AT&T Wireless currently maintains a wireless telecommunications facility on an existing 625 foot tall lattice tower located at 360 Gaylord Mountain Road, in Hamden, CT. The tower is owned by Clear Channel Broadcasting. The property is likewise owned by Clear Channel Broadcasting.

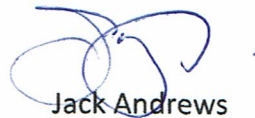
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No work or alterations will be performed on the tower or on any equipment attached thereto. Empire Telecommunications USA LLC has been tasked with laying the infrastructure for the new fiber optic cable; actual installation of the new fiber optic cable will be performed by a cable provider at a later date.

As required by the Regulations of Connecticut State Agencies ("RCSA") section 16-50j-73, the Connecticut Siting Council ("CSC") has been notified of the proposed changes and will review AT&T's proposal. Please accept this letter as notification to the Municipal Planner under RCSA section 16-50j-73 of construction which constitutes an exempt modification pursuant to RCSA section 16-50j-72(b)(2).

The enclosed letter to the CSC fully describes AT&T's proposal for the above referenced site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachman, Acting Executive Director of the CSC at 860-872-2935.

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jandrews@empiretelecomm.com

Enclosures

cc: Melanie Bachman, Connecticut Siting Council

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Zoning Manager, Empire Telecom o/b/o AT&T Wireless
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

January 25, 2019

The Honorable Curt B. Leng, Mayor
Town of Hamden
Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518-3320

RE: Modifications to Telecommunication Facility - 360 Gaylord Mountain Road, Hamden, CT 06518
AT&T Site CT5663

Dear Mayor Leng:

In order to accommodate technological changes, implement the Uniform Mobile Telecommunications System and enhance system performance in the State of Connecticut, AT&T Wireless ("AT&T") will be installing replacement fiber optic cable at the above referenced telecommunications facility. AT&T Wireless currently maintains a wireless telecommunications facility on an existing 625 foot tall lattice tower located at 360 Gaylord Mountain Road, in Hamden, CT. The tower is owned by Clear Channel Broadcasting. The property is likewise owned by Clear Channel Broadcasting.

AT&T Wireless now seeks to install new fiber optic cable at this site, which requires installing one new Purcell cabinet; removal of one existing GSM cabinet; installing one new hand hole; installing two new 50 amp DC drops; installing 1350 feet of innerduct; and installing Maxell tape in conduit.

No work or alterations will be performed on the tower or on any equipment attached thereto. Empire Telecommunications USA LLC has been tasked with laying the infrastructure for the new fiber optic cable; actual installation of the new fiber optic cable will be performed by a cable provider at a later date.

As required by the Regulations of Connecticut State Agencies ("RCSA") section 16-50j-73, the Connecticut Siting Council ("CSC") has been notified of the proposed changes and will review AT&T's proposal. Please accept this letter as notification to the municipality under RCSA section 16-50j-73 of construction which constitutes an exempt modification pursuant to RCSA section 16-50j-72(b)(2).

The enclosed letter to the CSC fully describes AT&T's proposal for the above referenced site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachman, Acting Executive Director of the CSC at 860-872-2935.

Respectfully submitted,



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jandrews@empiretelecomm.com

Enclosures

cc: Melanie Bachman, Connecticut Siting Council

Jack Andrews
Zoning Manager, Empire Telecom
10130 Donleigh Drive
Columbia, MD 21046
443-286-4007
jandrews@empiretelecomm.com

January 25, 2019

Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

NOTICE OF EXEMPT MODIFICATION
AT&T Site CT5663

360 Gaylord Mountain Road, Hamden, CT 06518
Lat: 41-26-1.41 (41.433725)
Long. 72-56-42.86 (-72.94523889)

Dear Ms. Bachman:

AT&T Wireless currently maintains a wireless telecommunications facility on an existing 625 foot tall lattice tower located at 360 Gaylord Mountain Road, in Hamden, CT. The tower is owned by Clear Channel Broadcasting. The property is likewise owned by Clear Channel Broadcasting.

AT&T Wireless now seeks to install new fiber optic cable at this site, which requires installing one new Purcell cabinet; removal of one existing GSM cabinet; installing one new hand hole; installing two new 50 amp DC drops; installing 1350 feet of innerduct; and installing Maxell tape in conduit.

No work or alterations will be performed on the tower or on any equipment attached thereto. Empire Telecommunications USA LLC has been tasked with laying the infrastructure for the new fiber optic cable; actual installation of the new fiber optic cable will be performed by a cable provider at a later date.

The facility was approved by the Connecticut Siting Council in EM-AT&T-062-160804 on August 22, 2016. Six (6) conditions were enumerated in the Council's decision:

1) Any deviation from the proposed modification as specified in this notice and supporting materials with the council shall render this acknowledgement invalid;

- 2) Any material changes to the modification as proposed shall require the filing of a new notice with the Council;
- 3) Within 45 days after the completion of construction the Council shall be notified in writing that the construction has been completed;
- 4) Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
- 5) the validity of the action shall expire one year from the date of the letter; and
- 6) the applicant may file a request an extension of time beyond the one year deadline provided that such a request is submitted to the Council not less than 60 days prior to the expiration.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies section 16-50j-73 for construction that constitutes an exempt modification pursuant to RCSA section 16-50j-72(b)(2). In accordance with RCSA section 16-50j-73, a copy of this letter and attachments is being sent to the Honorable Curt B. Leng, the Mayor of the Town of Hamden, to Daniel W. Kops, Jr., Hamden Town Planner, as well as to Clear Channel Broadcasting, the property owner (and the tower owner).

The planned modifications to the facility fall squarely within those activities expressly provided for in RCSA section 50j-72(b)(2).

1. The proposed modifications will not result in an increase in height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that will exceed state and local limits.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. No new tower loading is proposed.

For the foregoing reasons, AT&T Wireless respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under RCSA section 16-50j-72(b)(2).

Respectfully submitted,



Jack Andrews
Zoning Manager, Empire Telecom
o/b/o AT&T Wireless
10130 Donleigh Drive
Columbia, MD 21046
443-286-4007
jandrews@empiretelecomm.com

Enclosures

cc: Honorable Curt B. Leng, as Mayor of the Town of Hamden
Daniel W. Kops, Jr., as Hamden Town Planner
Clear Channel Broadcasting, as property owner and the tower owner.

Tracking®

Tracking

Another Package +

Tracking Number: 9505510391979025255947

On Time

Expected Delivery on

MONDAY

28 JANUARY 2019 by 8:00pm ⓘ

Status

Delivered

January 28, 2019 at 11:15 am
Delivered, In/At Mailbox
HAMDEN, CT 06518

Get Updates ▼

Delivered



Quick Tools

Mail & Ship

Track & Manage

Postal Store

Business

International

Tracking®

Another Package +

Tracking

Tracking Number: 9505510391979025255930

On Time

Expected Delivery on

MONDAY

28 JANUARY 2019 by 8:00pm

Status

Delivered

January 28, 2019 at 9:59 am
Delivered, In/At Mailbox
HAMDEN, CT 06514

Get Updates

Delivered



Quick Tools

Mail & Ship

Track & Manage

Postal Store

Business

International

Tracking®

Another Package +

Tracking

Tracking Number: 9505510391979025255923

Expected Delivery on

TUESDAY

29 JANUARY 2019 ⓘ by 8:00pm ⓘ

Status

✓ Delivered

January 29, 2019 at 10:14 am
Delivered, Left with Individual
HAMDEN, CT 06518

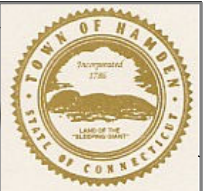
Get Updates ▼

Delivered

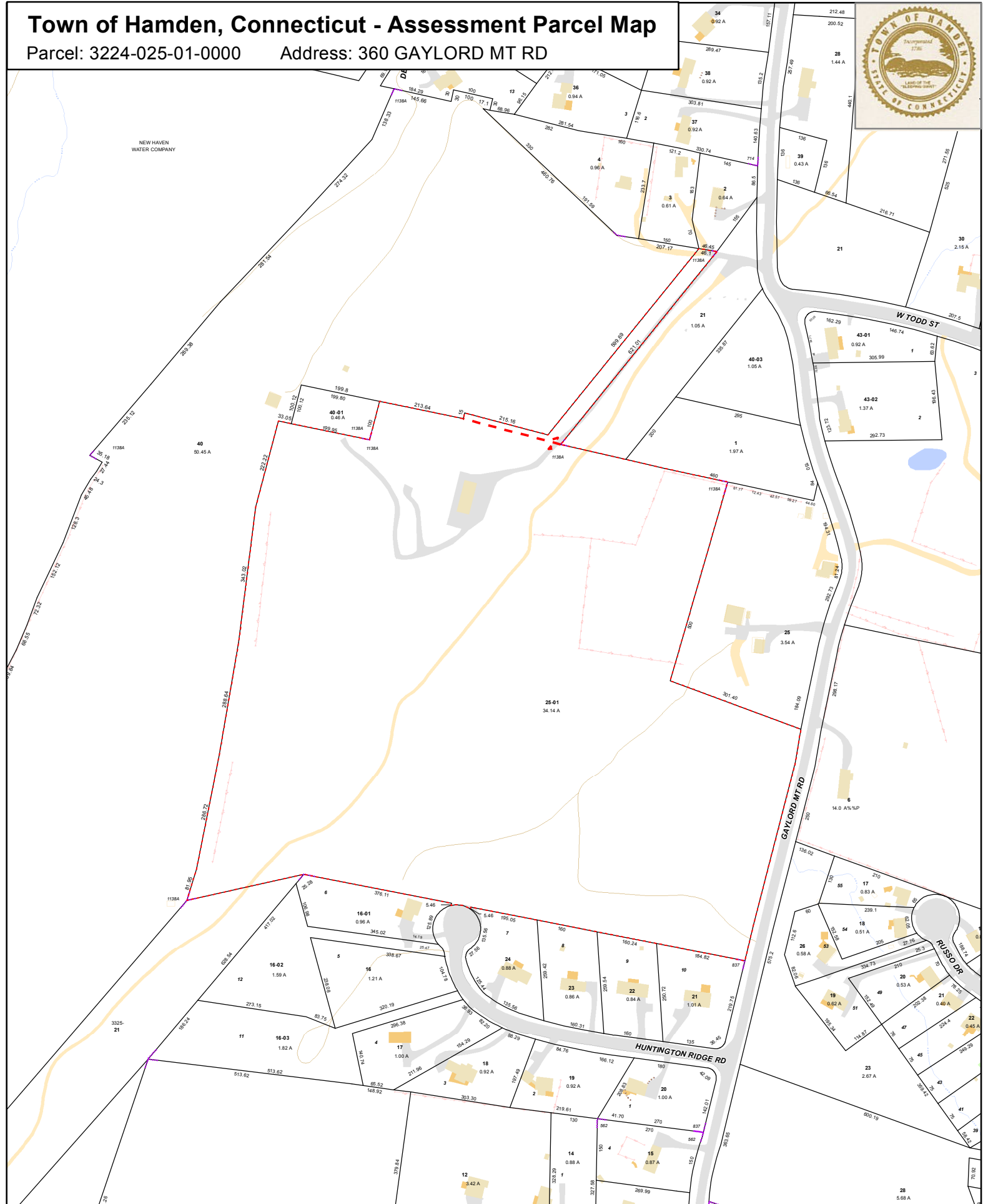
Town of Hamden, Connecticut - Assessment Parcel Map

Parcel: 3224-025-01-0000

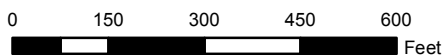
Address: 360 GAYLORD MT RD



NEW HAVEN
WATER COMPANY

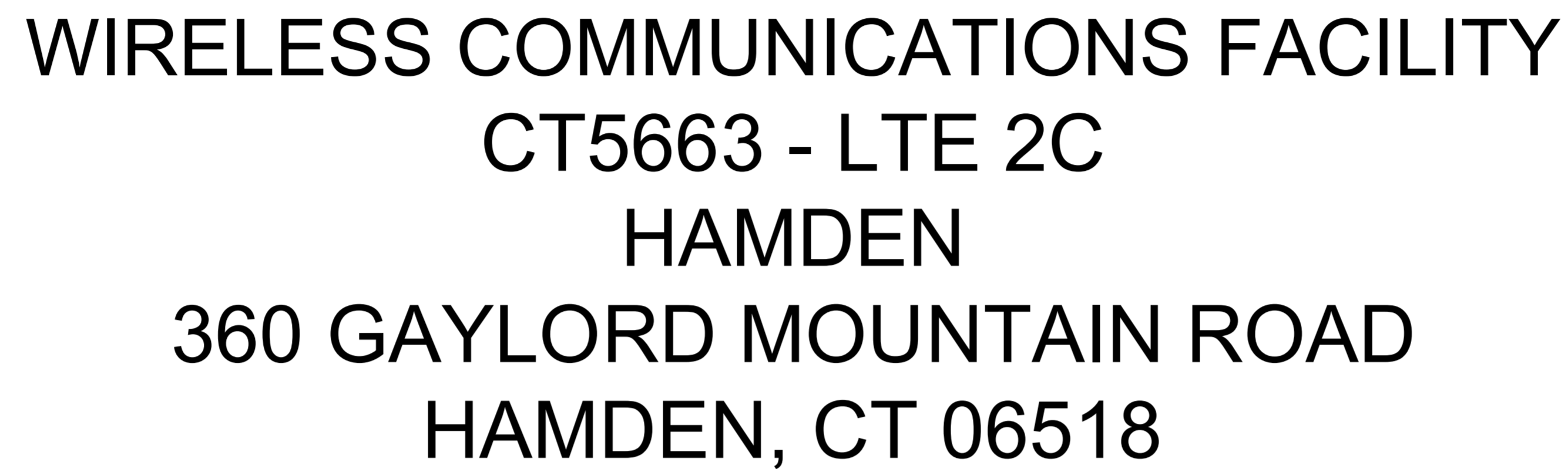


Approximate Scale: 1 inch = 300 feet



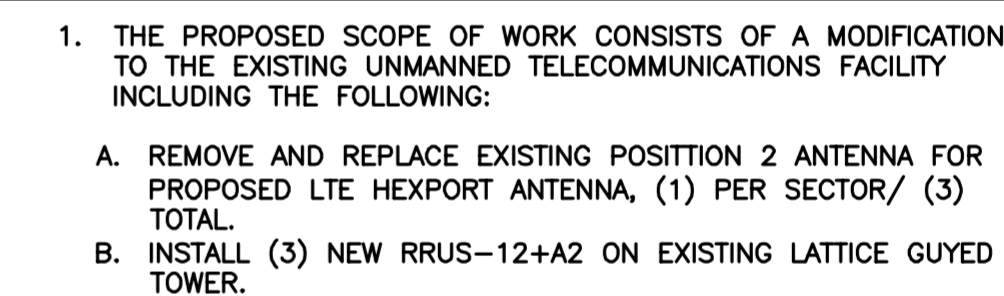
Map Produced: March 2018

Disclaimer: This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Hamden and its mapping contractors assume
no legal responsibility for the information contained herein.



3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2005 CONNECTICUT SUPPLEMENT AND 2009 AMENDMENTS, INCLUDING THE TIA/EIA-222 REVISION "F" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2005 CONNECTICUT FIRE SAFETY CODE AND 2009 AMENDMENTS, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
2. THE COMPOUND, TOWER, PRIMARY GROUND RING, ELECTRICAL SERVICE TO THE METER BANK AND TELEPHONE SERVICE TO THE DEMARCATION POINT ARE PROVIDED BY SITE OWNER. AS BUILT FIELD CONDITIONS REGARDING THESE ITEMS SHALL BE CONFIRMED BY THE CONTRACTOR. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE AT&T CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
21. CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY

FROM:	500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT	TO:	360 GAYLORD MOUNTAIN ROAD HAMDEN, CONNECTICUT
1.	TAKE RAMP LEFT FOR I-91 SOUTH	22.6	MI
2.	AT EXIT 10, TAKE RAMP RIGHT FOR CT-40 TOWARD MT. CARMEL / HAMDEN	2.6	MI
3.	BEAR RIGHT ONTO CT-10 / WHITNEY AVE	1.7	MI
4.	TURN LEFT ONTO TODD ST	0.6	MI
5.	TURN RIGHT ONTO SHEPARD AVE	491	FT
6.	TURN LEFT ONTO W TODD ST	4	MI
7.	BEAR RIGHT ONTO GAYLORD MOUNTAIN RD	385	FT
	ARRIVE AT GAYLORD MOUNTAIN RD AND TURN RIGHT	80	FT

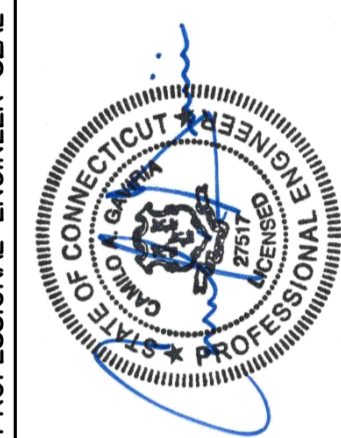


AT&T SITE NUMBER:	CT5663
AT&T SITE NAME:	HAMDEN
SITE ADDRESS:	360 GAYLOAD MOUNTAIN ROAD HAMDEN, CT 06518
LESSEE/APPLICANT:	AT&T MOBILITY 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067
ENGINEER:	CENTEK ENGINEERING, INC. 633-2 NORTH BRANFORD RD. BRANFORD, CT. 06405
PROJECT COORDINATES:	LATITUDE: 41°-26'-1.41" N LONGITUDE: 72°-56'-42.86" W GROUND ELEVATION: ±620' AMSL COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
N-1	NOTES AND SPECIFICATIONS	1
C-1	PLANS, ELEVATION AND DETAILS	1
C-2	LTE 2C EQUIPMENT DETAILS	1
E-1	LTE SCHEMATIC DIAGRAM AND NOTES	1
E-2	LTE WIRING DIAGRAM	1
E-3	TYPICAL ELECTRICAL DETAILS	1

[illegible]

PROFESSIONAL ENGINEER SEAL



CENTEK engineering

(203) 488-0580
(203) 488-8587 Fax
53-2 North Branford Road
Branford, CT 06405

AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
HAMDEN
CT5663 - LTE 2C
360 GAYLORD MOUNTAIN ROAD
HAMDEN, CT 06518

DATE: 06/14/16

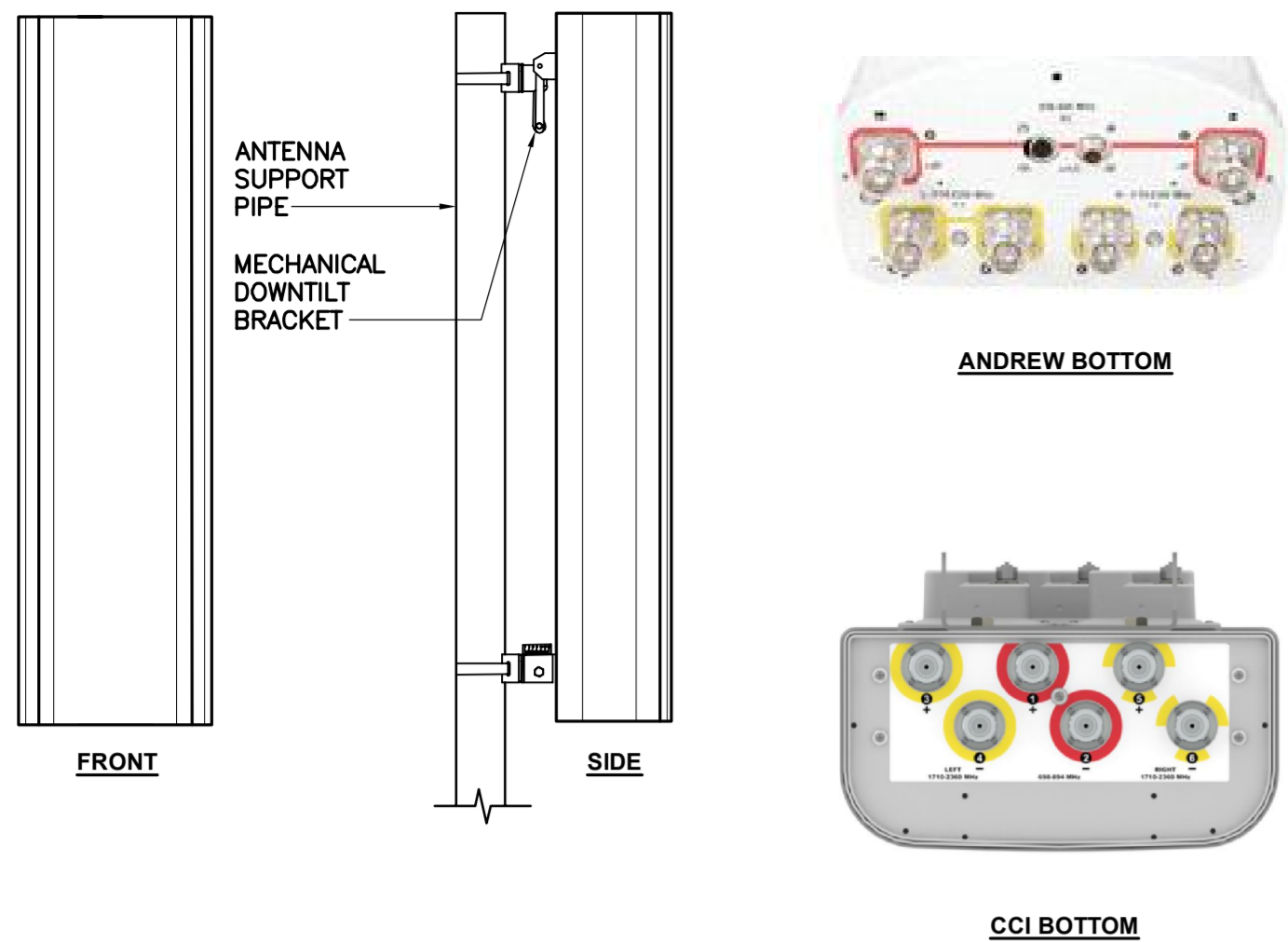
SCALE:	AS NOTED
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JOB NO. 16071.22

TITLE SHEET

T-1

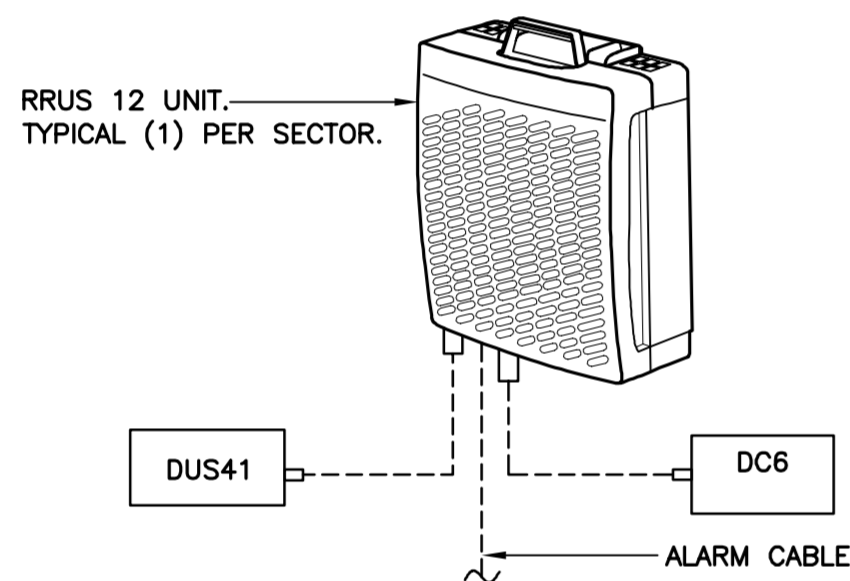
Sheet No. 1 of 7



ALPHA/BETA/GAMMA ANTENNA			
EQUIPMENT	DIMENSIONS	WEIGHT	
MAKE: ANDREW MODEL: SBNHH-1D65A	55"L x 11.9"W x 7.1"D	33.5 LBS.	
MAKE: CCI MODEL: HPA-65R-BU-H6	72.0"H x 14.8"W x 9.0"D	51-LBS	

5 PROPOSED ANTENNA DETAIL

SCALE: 1/2" = 1'-0"

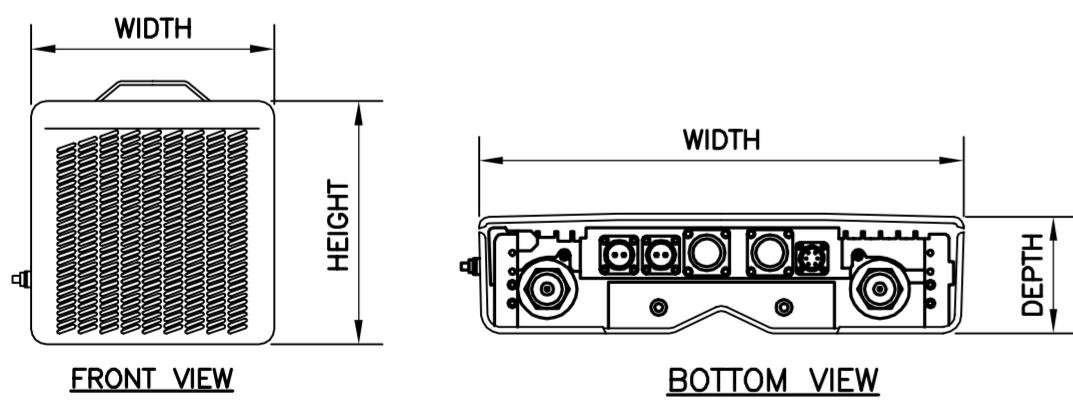


RRU (REMOTE RADIO UNIT)			
EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: RRUS 12	20.4"L x 18.5"W x 7.5"D	50 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

6 ERICSSON RRUS 12 DETAIL

SCALE: 1" = 1'-0"

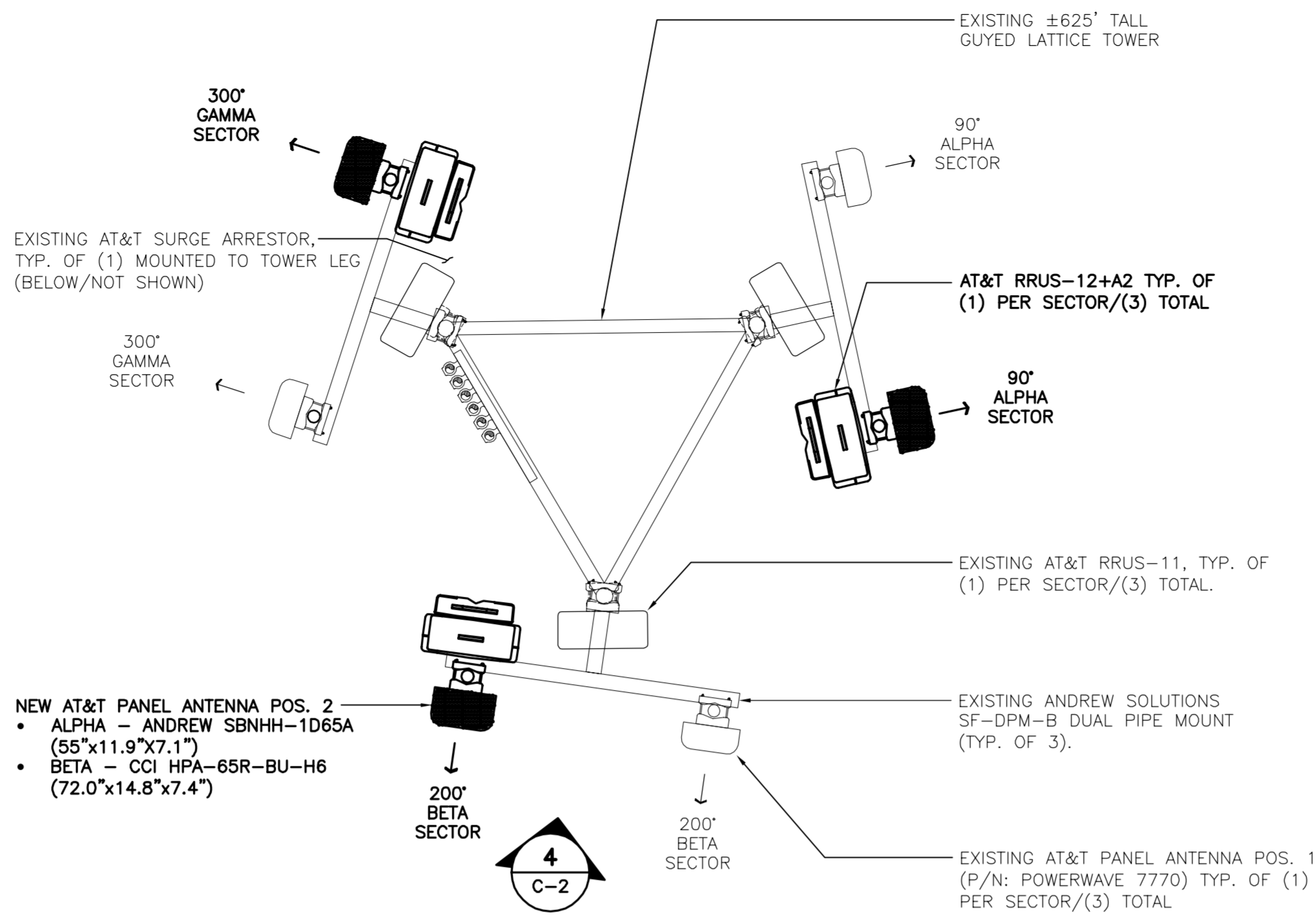


RRU (REMOTE RADIO UNIT)			
EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: RRUS A2	16.42"L x 15.19"W x 3.35"D	22.05 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

7 ERICSSON RRUS A2 DETAIL

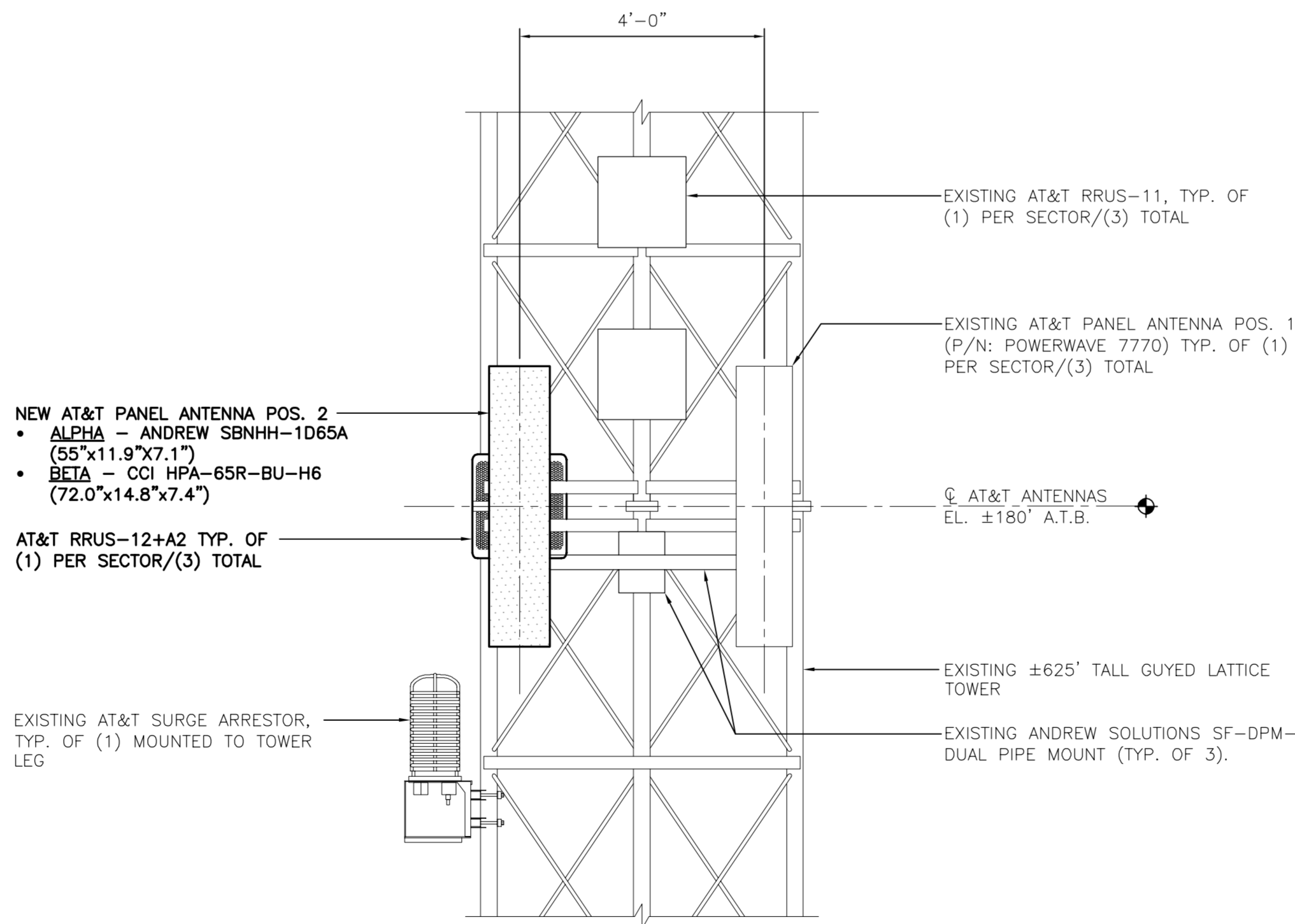
SCALE: 1" = 1'-0"



2 PROPOSED ANTENNA PLAN

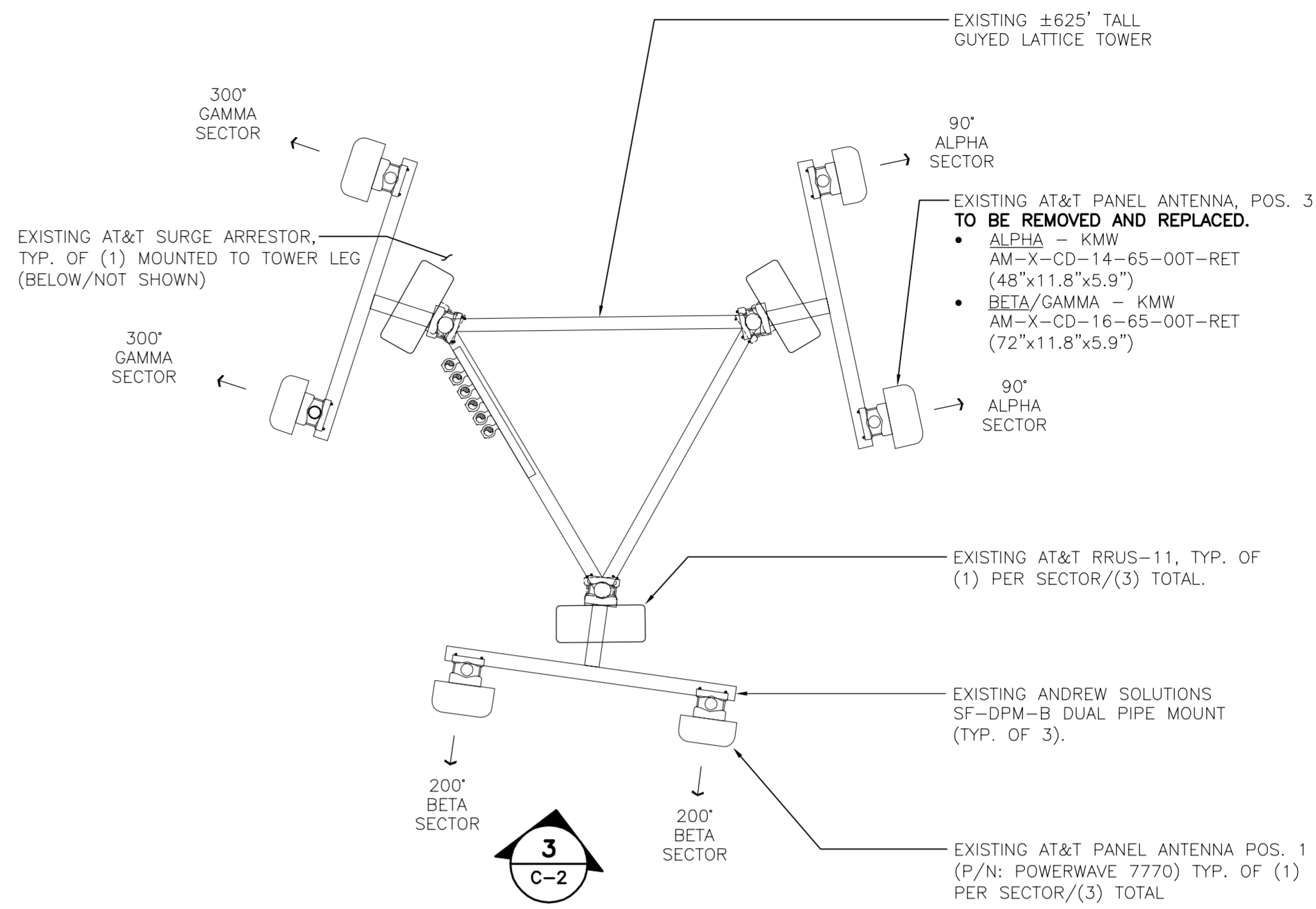
SCALE: 1/2" = 1'-0"

APPROX. NORTH



4 TYP. SECTOR ELEVATION - PROPOSED

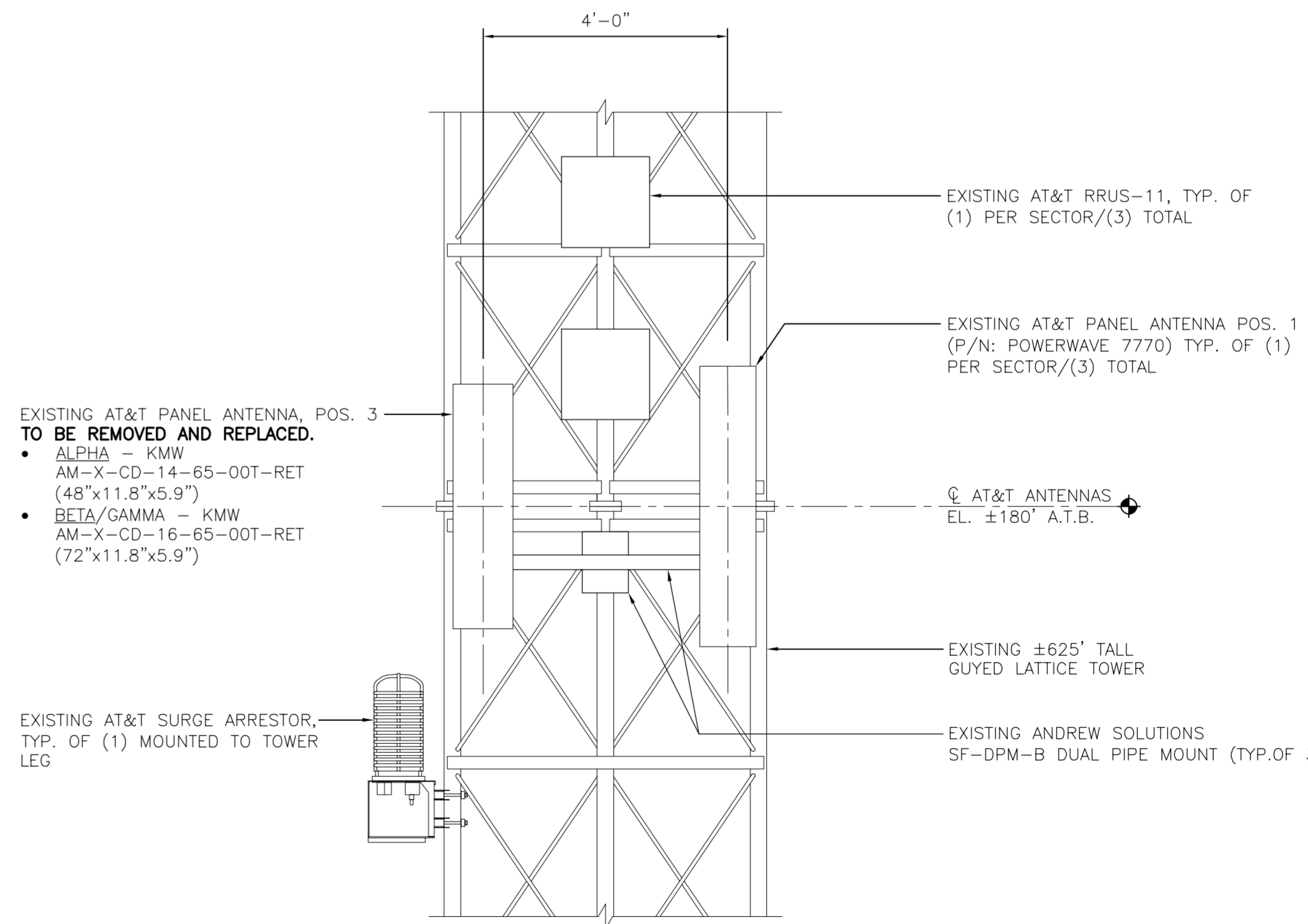
SCALE: 1/2" = 1'-0"



1 EXISTING ANTENNA PLAN

SCALE: 1/2" = 1'-0"

APPROX. NORTH



3 TYP. SECTOR ELEVATION - EXISTING

SCALE: 1/2" = 1'-0"

PROFESSIONAL ENGINEER SEAL

203) 488-0380
203) 488-3387 Fax
632 North Branford Road
Branford, CT 06405
www.CentekEng.com

AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
HAMDEN
CT5663 - LTE 2C
360 GAYLORD MOUNTAIN ROAD
HAMDEN, CT 06518

DATE: 06/14/16
SCALE: AS NOTED
JOB NO. 16071.22

LTE 2C
EQUIPMENT
DETAILS

C-2

Sheet No. 4 of 7

CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION
CONSTRUCTION DOCUMENTS - ISSUED FOR CLIENT REVIEW

CAG CAG CAG
ASC KAWR
DATE 7/21/16 06/16/16
REV 1 0

DRAWN BY CHKD BY DESCRIPTION



1. TINNED COPPER GROUND BAR, 1/4"x 4"x 20",
NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH
NEMA DOUBLE LUG .
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 2.
3061-4.
3. 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO.
CAT. NO. 3015-8.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO.
4. CAT. NO. A-6056.
5. STAINLESS STEEL SECURITY SCREWS.

Diagram illustrating the tower grounding connections. The diagram shows a vertical tower structure with various grounding components and their connections:

- STANDARD GROUND KIT (TYPICAL)**: Indicated by a line pointing to the top ground connection.
- ANTENNA GROUND BAR (CIGBE) @ TOP OF TOWER, CONNECT TO TOWER CROSS BRACING WITH ANGLE ADAPTERS. (TYPICAL)**: Indicated by a line pointing to the top antenna ground bar.
- #2 AWG BCW LUG (TYP)**: Indicated by a line pointing to the lug connecting the top antenna ground bar to the tower.
- CADWELD TO TOP OF TOWER LEG SPLICE PLATE.**: Indicated by a line pointing to the weld connection at the top of the tower leg.
- #2 AWG LUG, TYPICAL.**: Indicated by a line pointing to the lug connecting the middle antenna ground bar to the tower.
- STANDARD GROUND KIT (TYPICAL)**: Indicated by a line pointing to the middle ground connection.
- COAX CABLE (TYPICAL)**: Indicated by a line pointing to the coax cable connection at the middle ground kit.
- #6 AWG (PROVIDED WITH GROUNDING KIT, TYPICAL)**: Indicated by a line pointing to the ground wire connecting the bottom antenna ground bar to the middle ground kit.
- ANTENNA GROUND BAR (CIGBE) @ BOTTOM OF TOWER**: Indicated by a line pointing to the bottom antenna ground bar.
- EXISTING TOWER GROUND RING**: Indicated by a line pointing to the ground ring at the base of the tower.

NOTE:

1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.

Diagram illustrating the antenna mounting and grounding system:

- ANTENNA MOUNTING PIPE (SEE NOTE 3)
- ANTENNA (SEE NOTE 3)
- TOWER MOUNTED EQUIPMENT, TYP. (TMA, RRU, RRH, SURGE SUPPRESSER, GPS RECEIVER, ECT.)
- #6 AWG GROUND WIRE
- COAXIAL CABLE DIN CONNECTOR
- COAXIAL CABLE GROUNDING KIT (NOTE 1) TYP.
- COAXIAL CABLE
- GROUND BAR
- GROUND WIRE TO GROUND BAR AT BASE OF TOWER
- TO NEXT GROUND BAR (TYPICAL)

- NOTES:

1. BOND COAXIAL CABLE GROUND KITS TO EACH OWNER'S GROUND BAR ALONG ENTIRE COAX RUN FROM ANTENNA TO SHELTER.
2. BOND ALL EQUIPMENT TO GROUND PER NEC AND MANUFACTURERS SPECIFICATIONS.
3. DETAIL IS TYPICAL FOR ALL ANTENNA SECTORS, INCLUDING GPS ANTENNA.

Diagram illustrating the antenna cable support assembly. The assembly includes four antenna cables (labeled RX and TX) connected to a ground bar (CIGBE) and a ground wire (GROUND WIRE TO CIGRE/MIGRE). The cables are supported by a cablewave weatherproofing kit and a cablewave ground kit (typical). The ground bar is mounted near/below the antenna. The ground wire is connected to the ground bar and the antenna frame support. The diagram also shows the connection of the antenna cables to the antenna frame support.

Labels and components shown in the diagram:

- FROM ANTENNA
- RX
- TX
- JUMPER REQUIRED ONLY WHEN 1 1/4" Ø AND LARGER (TYP.)
- CABLEWAVE CONNECTOR WEATHERPROOFING KIT (TYP.)
- CABLEWAVE WEATHERPROOFING KIT,
- CABLEWAVE GROUND KIT (TYP.) (SEE NOTE)
- ANTENNA CABLE TO CABLE TRAY (TYP.)
- #6 AWG
- CIGBE GROUND BAR NEWTON, SIMILAR TO MOUNTED NEAR/BELOW ANTENNA
- FROM ANTENNA FRAME SUPPORT
- #2 SOLID TINNED COPPER WIRE
- GROUND WIRE TO CIGRE/MIGRE

NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

Diagram illustrating the assembly of the antenna cable connection. The components and dimensions shown are:

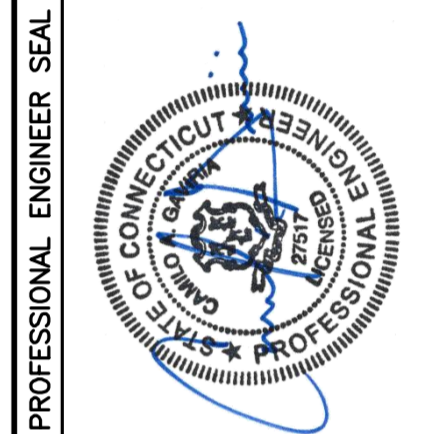
- #6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR) (STANDARD CABLEWAVE GROUNDING KIT)
- CABLE GROUND KIT
- CABLEWAVE WEATHERPROOFING KIT
- ANTENNA CABLE
- 1 1/4" DIA. MAX.
- 3 3/4"
- 6"
- 12" APPROX.
- ENCLOSURE

NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

[illegible]

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DATE:	06/14/16
SCALE:	AS NOTED
JOB NO.	16071.22

TYPICAL ELECTRICAL DETAILS

E-3

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