

CONNECTICUT SITING COUNCIL  
TEN FRANKLIN SQUARE  
NEW BRITAIN, CT 06051

**MOTION TO REOPEN AND MODIFY  
DOCKET No. 261 DECISION AND ORDER**

Introduction:

T-Mobile (the “Petitioner”) respectfully requests that the Connecticut Siting Council (“Council”) reopen the evidentiary proceeding in Docket No. 261 and modify its Decision and Order (“D&O”) dated December 22<sup>nd</sup>, 2003 as included in Exhibit A. T-Mobile seeks the Council’s approval to modify Condition #1 of the D&O by eliminating the condition requiring antennas be attached to the tower via flush mount configurations so as to permit other types of mounting designs, including but not limited to platform mount systems. The approved modification to Condition #1 of the D&O will create no adverse environmental impacts but will in fact further the public interest by reducing barriers to tower sharing and avoiding the unnecessary proliferations of towers.

Background:

On May 30<sup>th</sup>, 2003, AT&T Wireless PCS, LLC d/b/a AT&T Wireless (“AT&T”) applied to the Council for the construction, operation, and maintenance of a wireless telecommunications facility at one of two sites at 85 Quaker Farms Road, Oxford, Connecticut. The property at 85 Quaker Farms Road is approximately 12.5 acres and is owned by William & Elaine Schiavi. By D&O dated December 22, 2003, the Council issued a CPCN to AT&T granting approval to construct at Site B, as defined in the original application.

Subsequent to the issuance of the CPCN, the Council has acknowledged on three separate occasions T-Mobile’s notice of intent to modify the tower. See Exhibit B for copies of these acknowledgements.

Request to modify:

On December 4<sup>th</sup>, 2020, T-Mobile submitted a Notice of Exempt Modification proposing to replace six (6) existing antennas with six (6) new antennas, as well as add three (3) new antennas. This proposal also included mount modifications primarily involving a change from the existing side-arm mount to a new platform mount. On January 6<sup>th</sup>, 2021, the Council issued an incomplete letter noting that the proposed antenna design and mount modification was not consistent with Condition #1 of the D&O. See Exhibit C for a copy of this letter. Accordingly, T-Mobile now requests that the Council reopen the Docket No. 261 proceeding and modify its D&O to allow

T-Mobile and other service providers to attach antennas to the existing monopole at the Quaker Farms Road property utilizing platform mounting systems in addition to flush mounts. In support of this request, T-Mobile offers the following additional information:

1. The current limitation on antenna mount design restricts wireless carriers', including T-Mobile's, ability to upgrade existing equipment. Flush mount configurations cannot support the additional antennas and supplementary equipment required by wireless carriers in order to provide state-of-the-art reliable wireless service. T-Mobile's existing flush mount configuration is unable to meet the increasing capacity and coverage demands due to the vast changes in T-Mobile's network and technology. For this particular site, T-Mobile can structurally accommodate a platform mount system which will enable T-Mobile to utilize the appropriate antennas/equipment to meet current capacity and coverage demands.
2. T-Mobile's requested modification to the D&O Condition No. 1 will not result in any significant nonuniformity or create substantial visual impact. As indicated on the photo simulations included in Exhibit D and the construction drawings for T-Mobile's proposal included as Exhibit E, the proposed platform mount does not constitute a significant change in the aesthetics of the existing facility.

Conclusion:

For the foregoing reasons, T-Mobile respectfully requests that the Council reopen Docket No. 261 and modify Condition No. 1 of the D&O eliminating the requirement that all antennas installed on the monopole utilize flush mount configurations.

Regards,



Richard Zajac  
Site Acquisition Specialist  
Crown Castle  
Agent for Applicant  
(585) 445-5896  
[Richard.Zajac@crowncastle.com](mailto:Richard.Zajac@crowncastle.com)



4545 E River Rd, Suite 320  
West Henrietta, NY 14586

Phone: (585) 445-5896  
[www.crowncastle.com](http://www.crowncastle.com)

Certification of Service:

I hereby certify that a copy of the foregoing was sent via FedEx to all relevant parties associated with Docket No. 261, including:

The Honorable George Temple, First Selectman  
Town of Oxford  
Oxford Town Hall  
486 Oxford Road  
Oxford, CT 06478

Steven S. Macary, Zoning Enforcement Official  
Town of Oxford  
Oxford Town Hall  
486 Oxford Road  
Oxford, CT 06478

William & Elaine Schiavi, Property Owners  
85 Quaker Farms Road  
Oxford, CT 06478

A notification letter along with a copy of this filing were also sent via FedEx to property owners whose land abuts the parcel at 85 Quaker Farms Road. A list of abutters, a sample letter, and copies of FedEx labels (proof of service) are included in Exhibit F.

ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

WEBSTER, NY 14580  
UNITED STATES US

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340

BILL SENDER

TO **GEORGE TEMPLE - FIRST SELECTMAN**

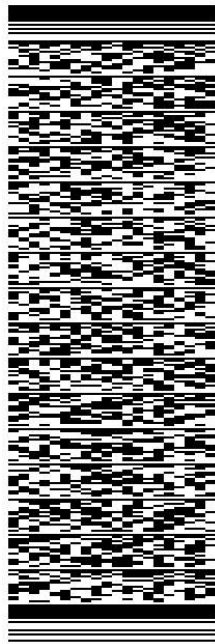
**TOWN OF OXFORD  
486 OXFORD ROAD**

**OXFORD CT 06478**

(585) 445-5896

REF: 799001 7680

INV/ PO: DEPT:



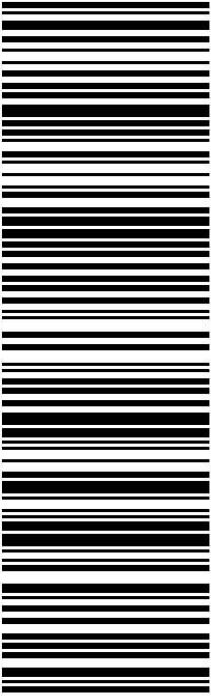
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56DJ3/F9A6/FE4A

TRK# 7735 9899 6524  
0201

MON - 03 MAY 4:30P  
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**XE HFDA**  
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



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RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340

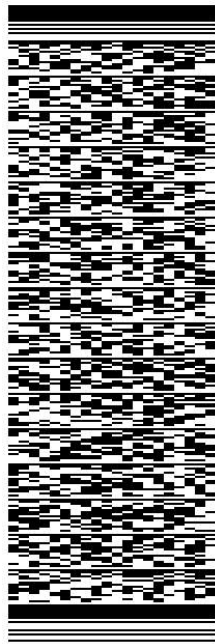
WEBSTER, NY 14580  
UNITED STATES US

BILL SENDER

TO **STEVEN MACARY - ZONING ENFORCEMENT**  
**TOWN OF OXFORD**  
**486 OXFORD ROAD**

**OXFORD CT 06478**

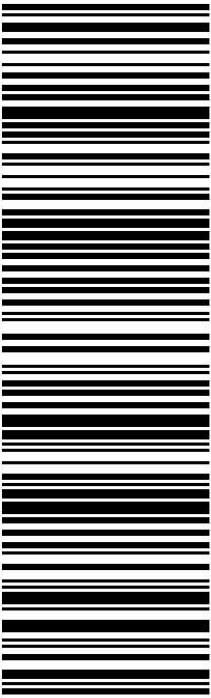
(585) 445-5896 REF: 799001 7680  
INV/ PO: DEPT:



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0201 STANDARD OVERNIGHT

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ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

WEBSTER, NY 14580  
UNITED STATES US

TO **WILLIAM & ELAINE SCHIAVI**

**85 QUAKER FARMS ROAD**

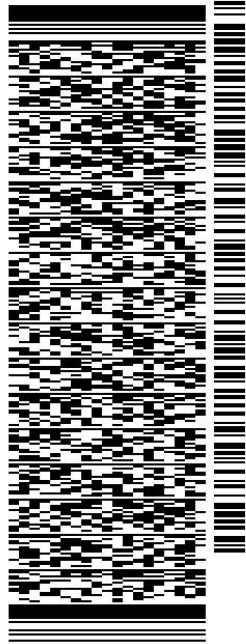
**OXFORD CT 06478**

(585) 445-5896 REF: 799001 7680  
INV/ PO: DEPT:

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364INET4340

BILL SENDER

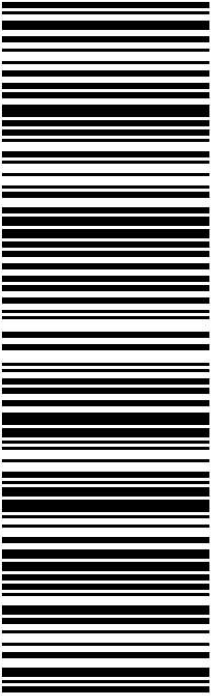
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CT-US BDL



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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

# Exhibit A

**DOCKET NO. 261** - AT&T Wireless PCS, LLC d/b/a AT&T } Connecticut  
Wireless application for a Certificate of Environmental }  
Compatibility and Public Need for the construction, maintenance } Siting  
and operation of a wireless telecommunications facility at one of } Council  
two sites at 85 Quaker Farms Road, Oxford, Connecticut. }

December 22, 2003

### **Decision and Order**

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to AT&T Wireless PCS d/b/a AT&T Wireless for the construction, maintenance and operation of a wireless telecommunications facility at Site B, located at 85 Quaker Farms Road, Oxford, Connecticut. The Council denies certification of Site A, also located at 85 Quaker Farms Road, Oxford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T and other entities, both public and private, but such tower shall not exceed a height of 153 feet above ground level, including appurtenances. Antennas installed on the monopole shall be flush mounted.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) color options for painting the tower, including the color option preferred by the Town of Oxford;
  - b) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
  - c) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. The Certificate Holder shall provide space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.
6. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Waterbury Republican-American.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The party to this proceeding is:

**Applicant**

AT&T Wireless PCS, LLC d/b/a AT&T Wireless (AT&T)

**Its Representative**

Christopher B. Fisher, Esq.  
Cuddy & Feder LLP  
90 Maple Avenue  
White Plains, New York 10601

# Exhibit B



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

January 22, 2007

H. Karina Fournier  
Zoning Department  
T-Mobile  
30 Cold Spring Road  
Rocky Hill, CT 06067

RE: **EM-T-MOBILE-108-061221** - Omnipoint Communications, Inc. (T-Mobile) notice of intent to modify an existing telecommunications facility located at 85 Quaker Farms Road, Oxford, Connecticut.

Dear Ms. Fournier:

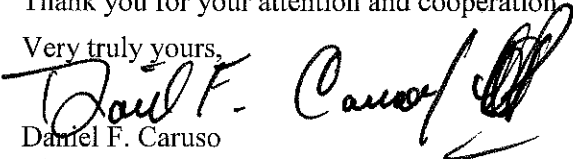
At a public meeting held on January 18, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 20, 2006, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
Daniel F. Caruso  
Chairman

DFC/MP/laf

c: The Honorable August A. Palmer, First Selectman, Town of Oxford  
Vincent Vizzo, Planning & Zoning Chairman, Town of Oxford  
Michele G. Briggs, New Cingular Wireless PCS, LLC  
Christopher B. Fisher, Esq., Cuddy & Feder LLP  
Kenneth C. Baldwin, Esq., Robinson & Cole LLP



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

March 12, 2015

Jerry Feathers  
Real Estate Specialist  
Crown Castle  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277

RE: **EM-T-MOBILE-108-150219** – T-Mobile notice of intent to modify an existing telecommunications facility located at 85 Quaker Farms Road, Oxford, Connecticut.

Dear Mr. Feathers:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Prior to any proposed tower load changes, T-Mobile shall remove the empty antenna mounts at the 99-foot and 109-foot levels of the tower in accordance with the structural analysis report prepared by Crown Castle, dated February 10, 2015 and stamped by Andrew Fandozzi;
- Within 45 days following completion of the equipment installation, T-Mobile shall provide documentation that its installation complied with the recommendations included in the Structural Analysis Report;
- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.





The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated February 19, 2015. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Melanie A. Bachman  
Acting Executive Director

MAB/RM/lm

- c: The Honorable George R. Temple, First Selectman, Town of Oxford  
Steven S. Macary, Zoning Enforcement Official, Town of Oxford  
James W. and Elaine W. Schiavi, Property Owners



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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Phone: (860) 827-2935 Fax: (860) 827-2950  
E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)  
Web Site: [www.ct.gov/csc](http://www.ct.gov/csc)

VIA ELECTRONIC MAIL

September 14, 2020

Anne Marie Zsamba  
Real Estate Specialist  
Crown Castle  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065

RE: **EM-T-MOBILE-108-200827** – T-Mobile notice of intent to modify an existing telecommunications facility located at 85 Quaker Farms Road, Oxford, Connecticut.

Dear Ms. Zsamba:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Prior to T-Mobile's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by B & T Group Engineering, Inc., dated July 21, 2020 and stamped and signed by Scott S. Vance;
2. Within 45 days following completion of equipment installation, T-Mobile shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Antennas installed on the pole shall be flush mounted consistent with Condition No. 1 of the Council's Decision and Order in Docket No. 261;
4. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
5. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and

9. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated August 27, 2020. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,

*s/ Melanie A. Bachman*

Melanie A. Bachman  
Executive Director

MAB/IN/emr

c: The Honorable George R. Temple, First Selectman, Town of Oxford ([selectman@oxford-ct.gov](mailto:selectman@oxford-ct.gov))

# Exhibit C



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

January 6, 2021

Richard Zajac  
Site Acquisition Specialist  
Crown Castle  
4545 East River Road, Suite 320  
West Henrietta, NY 14586

**RE: EM-T-MOBILE-108-201204** – T-Mobile notice of intent to modify an existing telecommunications facility located at 85 Quaker Farms Road, Oxford, Connecticut.

Dear Mr. Zajac:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on December 4, 2020.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the proposed antenna mount that is not compliant with the Council's Decision and Order for Docket No. 261 dated December 22, 2003. Condition No. 1 of the above referenced Decision and Order states "Antennas installed on the monopole shall be flush mounted."

The proposed exempt modification request indicates that T-Mobile's proposed mount is not in compliance with the Council's condition of approval for this facility.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Crown Castle provide a revised request that is in compliance with the Council's Decision and Order in Docket No. 261 or submit a motion to reopen Docket No. 261 to modify the condition requiring flush mounted antennas on the subject tower, on or before February 8, 2021. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to February 8, 2021. **Please provide an electronic version of the requested information for the incomplete exempt modification to be rendered complete and processed. Please include the Council's exempt modification identification number referenced above with the submittal.**

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

*s/ Melanie A. Bachman*

Melanie A. Bachman  
Executive Director

MAB/IN/emr

# Exhibit D



PREPARED FOR:

CROWN CASTLE

SITE NAME:

OXFORD–QUAKER FARMS

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

T-Mobile

T-MOBILE NORTHEAST, LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766

CROWN CASTLE

3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406

B+T GRP  
1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE  
NUMBER: CTL02256

BU #: 845455  
OXFORD-QUAKER  
FARMS

85 QUAKER FARMS  
ROAD  
OXFORD, CT 06478

EXISTING 149'-0"  
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	3/15/21	FWP	CONSTRUCTION	FWP

IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

SHEET NUMBER: PS-1  
REVISION: A





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T-MOBILE NORTHEAST, LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766

CROWN CASTLE

3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406

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SHEET NUMBER: PS-2  
REVISION: A



EXISTING CONDITIONS

LOCATION #1

DATE OF PHOTO: 09/14/2020



VIEW SOUTH FACING TOWER

T-Mobile

T-MOBILE NORTHEAST, LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766

CROWN CASTLE

3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406

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OXFORD-QUAKER  
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SHEET NUMBER: PS-3

REVISION: A



VIEW SOUTH FACING TOWER



T-MOBILE NORTHEAST, LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766



3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406



1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE  
NUMBER: **CTL02256**

BU #: **845455**  
**OXFORD-QUAKER  
FARMS**

85 QUAKER FARMS  
ROAD  
OXFORD, CT 06478

EXISTING 149'-0"  
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	3/15/21	FWP	CONSTRUCTION	FWP

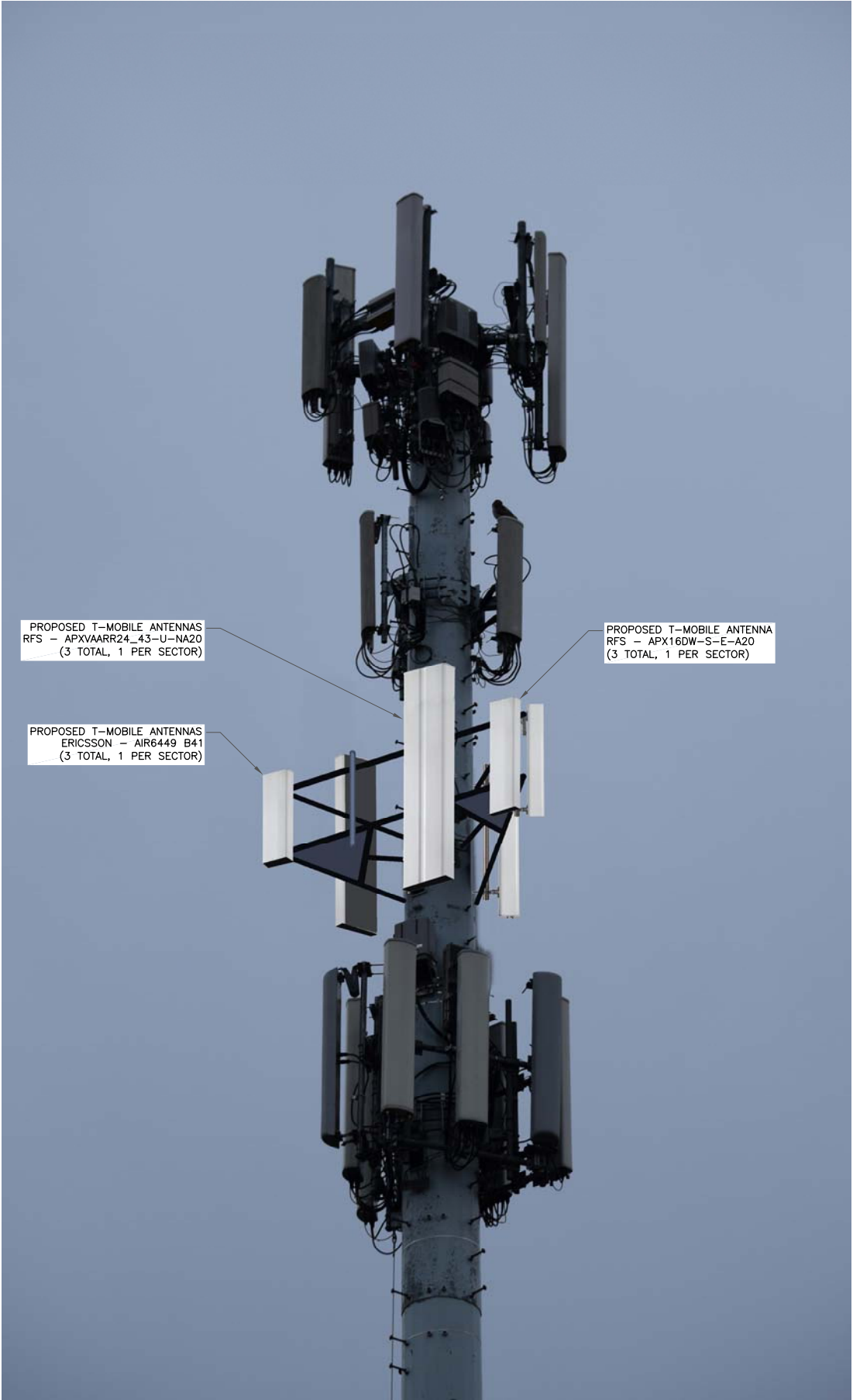
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SHEET NUMBER:

PS-4

REVISION:

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T-MOBILE NORTHEAST, LLC  
15 COMMERCE WAY, SUITE B  
NORTON, MA 02766



3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406



1717 S. BOULDER  
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T-MOBILE SITE  
NUMBER: CTL02256

BU #: 845455  
OXFORD-QUAKER  
FARMS

85 QUAKER FARMS  
ROAD  
OXFORD, CT 06478

EXISTING 149'-0"  
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	3/15/21	FWP	CONSTRUCTION	FWP

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SHEET NUMBER:  
**PS-5**

REVISION:  
**A**

# Exhibit E





T-MOBILE SITE NUMBER:CTNH211B

T-MOBILE SITE NAME: NH211/QUAKER FARMS\_COLLO

SITE TYPE: MONOPOLE

TOWER HEIGHT: 149'-0"

BUSINESS UNIT #:845455

SITE ADDRESS: 85 QUAKER FARMS ROAD

COUNTY: NEW HAVEN

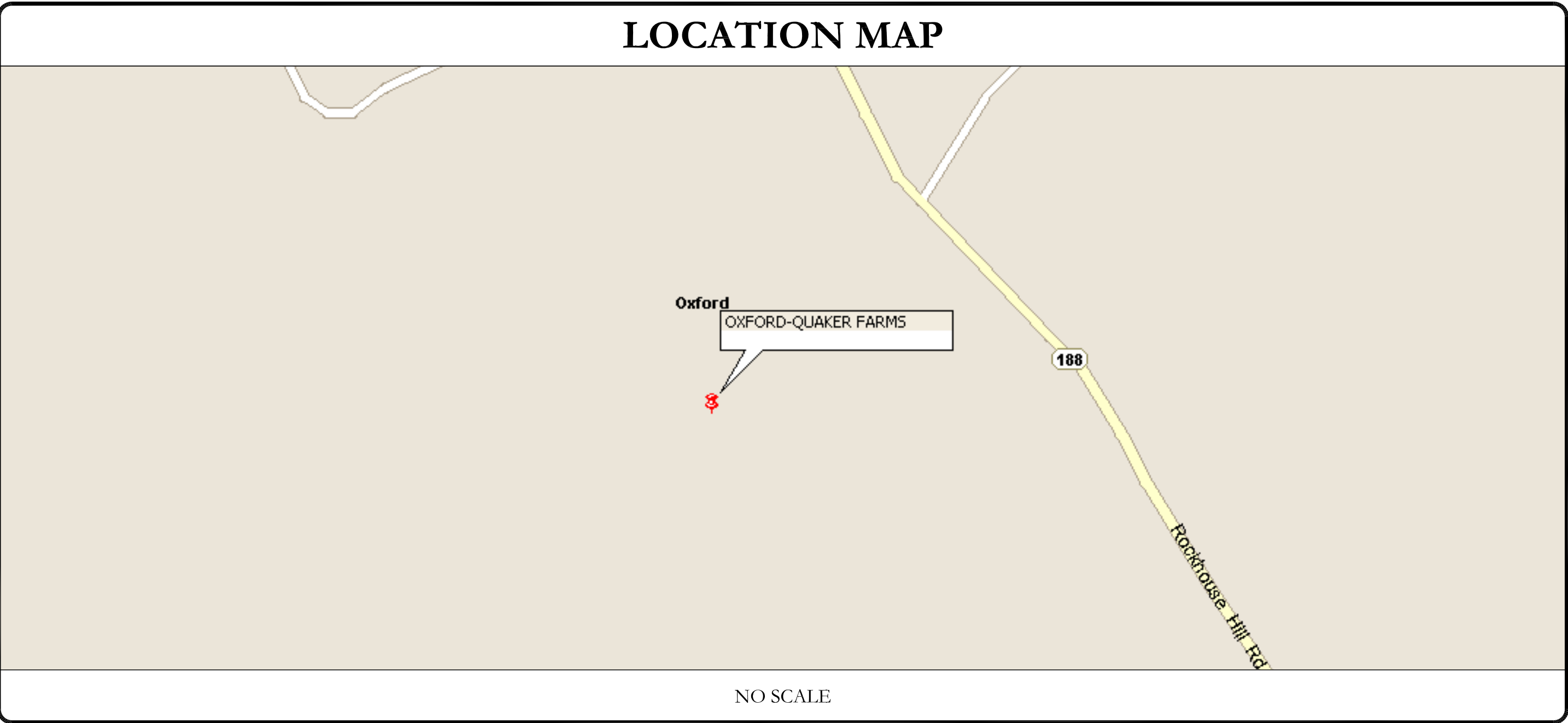
JURISDICTION: TOWN OF OXFORD

T-MOBILE ANCHOR SITE CONFIGURATION: 67D5A998C ODE+6160

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	OXFORD-QUAKER FARMS
SITE ADDRESS:	85 QUAKER FARMS ROAD OXFORD, CT 06478
COUNTY:	NEW HAVEN
MAP/PARCEL #:	23-57-8-CELL
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.383989°
LONGITUDE:	-73.137372°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	609'
CURRENT ZONING:	I
JURISDICTION:	TOWN OF OXFORD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	AT&T 575 MOROSGO DR ATLANTA, GA 30324
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 12920 SE 38TH STREET BELLEVUE, WA 98006
ELECTRIC PROVIDER:	NOT PROVIDED
TELCO PROVIDER:	NOT PROVIDED

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.0	ABUTTERS MAP
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
C-6	PLATFORM MOUNT DETAIL
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	

PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.
TOWER SCOPE OF WORK: <ul style="list-style-type: none"><li>• REMOVE (6) ANTENNAS</li><li>• REMOVE (6) TMAs</li><li>• INSTALL (9) ANTENNAS</li><li>• INSTALL (9) RADIOS</li><li>• INSTALL (3) FIBER CABLES</li><li>• INSTALL (1) PLATFORM MOUNT WITH HANDRAIL KIT</li></ul>
GROUND SCOPE OF WORK: <ul style="list-style-type: none"><li>• INSTALL (1) 6160 CABINET</li><li>• INSTALL (1) B160 BATTERY CABINET</li><li>• INSTALL (1) BB 6630</li><li>• INSTALL (1) BB 6648</li><li>• INSTALL (1) PSU4813 VOLTAGE BOOSTER</li><li>• INSTALL (1) IXRE ROUTER</li><li>• INSTALL CONCRETE PAD EXPANSION</li></ul>
NOTE: PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER



APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE	CODE
BUILDING	2015 IBC / 2018 CT STATE BUILDING CODE
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS:	N/A
DATED:	N/A
MOUNT ANALYSIS:	B+T GROUP
DATED:	15/10/20
RFDS REVISION:	4
DATED:	9/23/20
ORDER ID:	529733
REVISION:	0
CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!	

APPROVALS		
APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.		
LAND USE PLANNER		
T-MOBILE		
OPERATIONS		
RF		
NETWORK		
BACKHAUL		
CONSTRUCTION MANAGER		
THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.		

T-Mobile

4 SYLVAN WAY  
PARSIPPANY, NJ 07054

CROWN CASTLE

3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277

B+T GRP

1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE NUMBER:  
CTNH211B

BU #: 845455  
OXFORD-QUAKER FARMS

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

EXISTING  
149'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	11/9/20	JTS	CONSTRUCTION	MTJ
1	11/16/20	JTS	CONSTRUCTION	MTJ
2	4/6/21	GEH	CONSTRUCTION	MTJ

Professional Engineer Seal

4/6/21

B&T ENGINEERING, INC.  
PEC.0001564  
Expires 2/10/21

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SHEET NUMBER:  
T-1

REVISION:  
2

136377 011 01\_OXFORD-QUAKER FARMS\_CC\_TMO\_NE\_CD\_Upgrade.dwg - SheetT-1 - User: mjonas - Apr 06, 2021 1:23pm



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" -- CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:  
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR 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 CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. 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, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS 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 ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR 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.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 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.

GREENFIELD GROUNDING NOTES:

- 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 CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE CONTRACTOR 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 AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 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 CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 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.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND 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 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 RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING 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 CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION  
CARRIER: T-MOBILE  
TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDUREs. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF 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 CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- THE CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 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.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTUREs. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:  
#4 BARS AND SMALLER 40 ksi  
#5 BARS AND LARGER 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"  
CONCRETE EXPOSED TO EARTH OR WEATHER:  
#6 BARS AND LARGER 2"  
#5 BARS AND SMALLER 1-1/2"  
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:  
SLAB AND WALLS 3/4"  
BEAMS AND COLUMNS 1-1/2"
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- 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.  
4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR 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 AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TIE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION 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 NOT 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.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE 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. SET SCREW FITTINGS NOT ALLOWABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIEMOLD SPECIMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- 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 BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "T-MOBILE".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
	A PHASE	BLACK
120/240V, 1Ø	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
	A PHASE	BLACK
120/208V, 3Ø	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

\* SEE NEC 210.5(C)(1) AND (2)  
\*\* POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

T-Mobile

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CROWN  
CASTLE

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B+T GRP

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SUITE 300  
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PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE NUMBER:  
CTNH211B

BU #: 845455  
OXFORD-QUAKER FARMS

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

EXISTING  
149'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	11/9/20	JTS	CONSTRUCTION	MTJ
1	11/16/20	JTS	CONSTRUCTION	MTJ
2	4/6/21	GEH	CONSTRUCTION	MTJ



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PEC.0001564  
Expires 2/10/21

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OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-2

REVISION:

2



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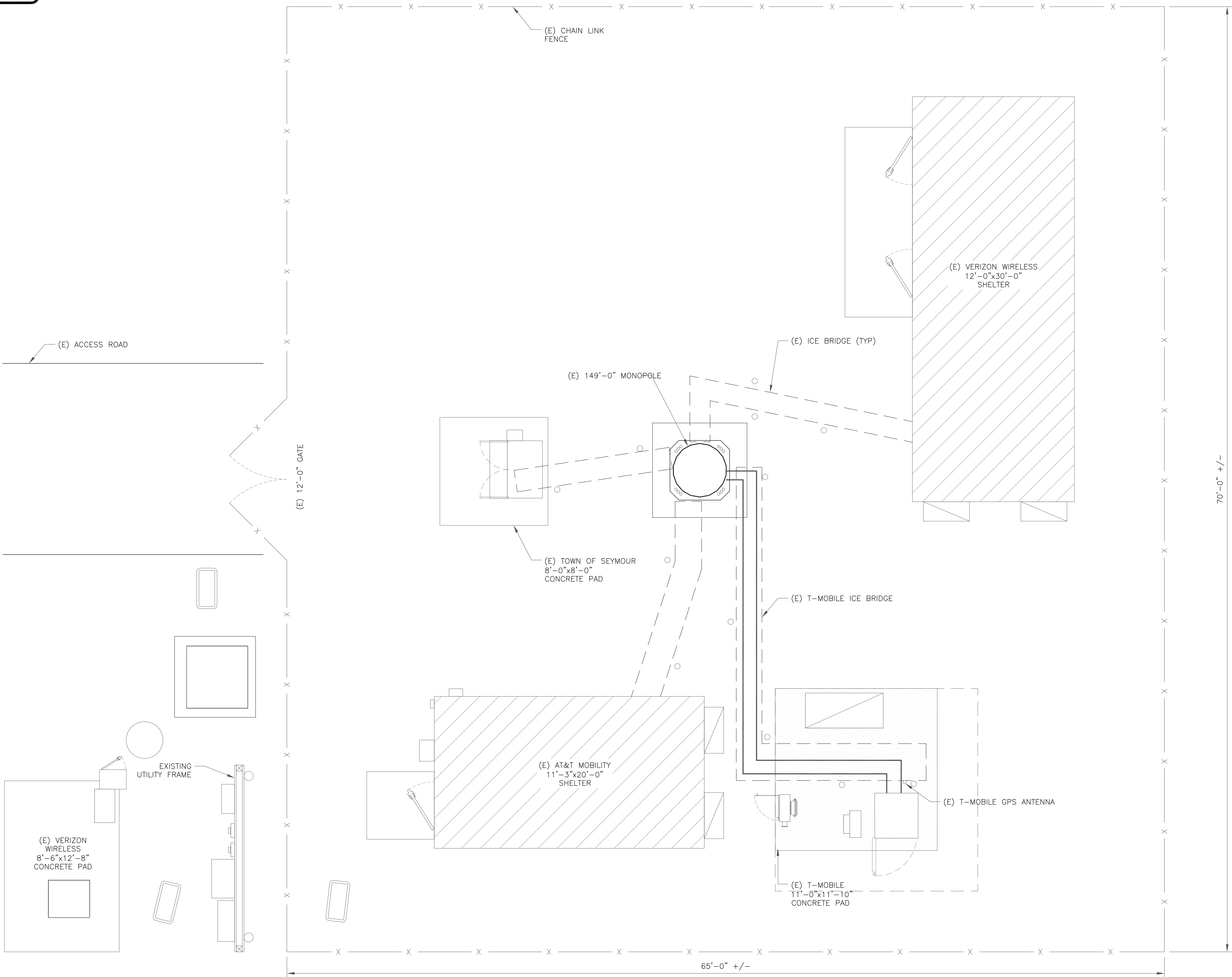
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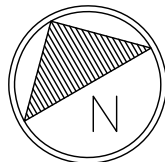
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1 OVERALL SITE PLAN  
SCALE: 1/4"=1'-0" (FULL SIZE)  
1/8"=1'-0" (11x17)



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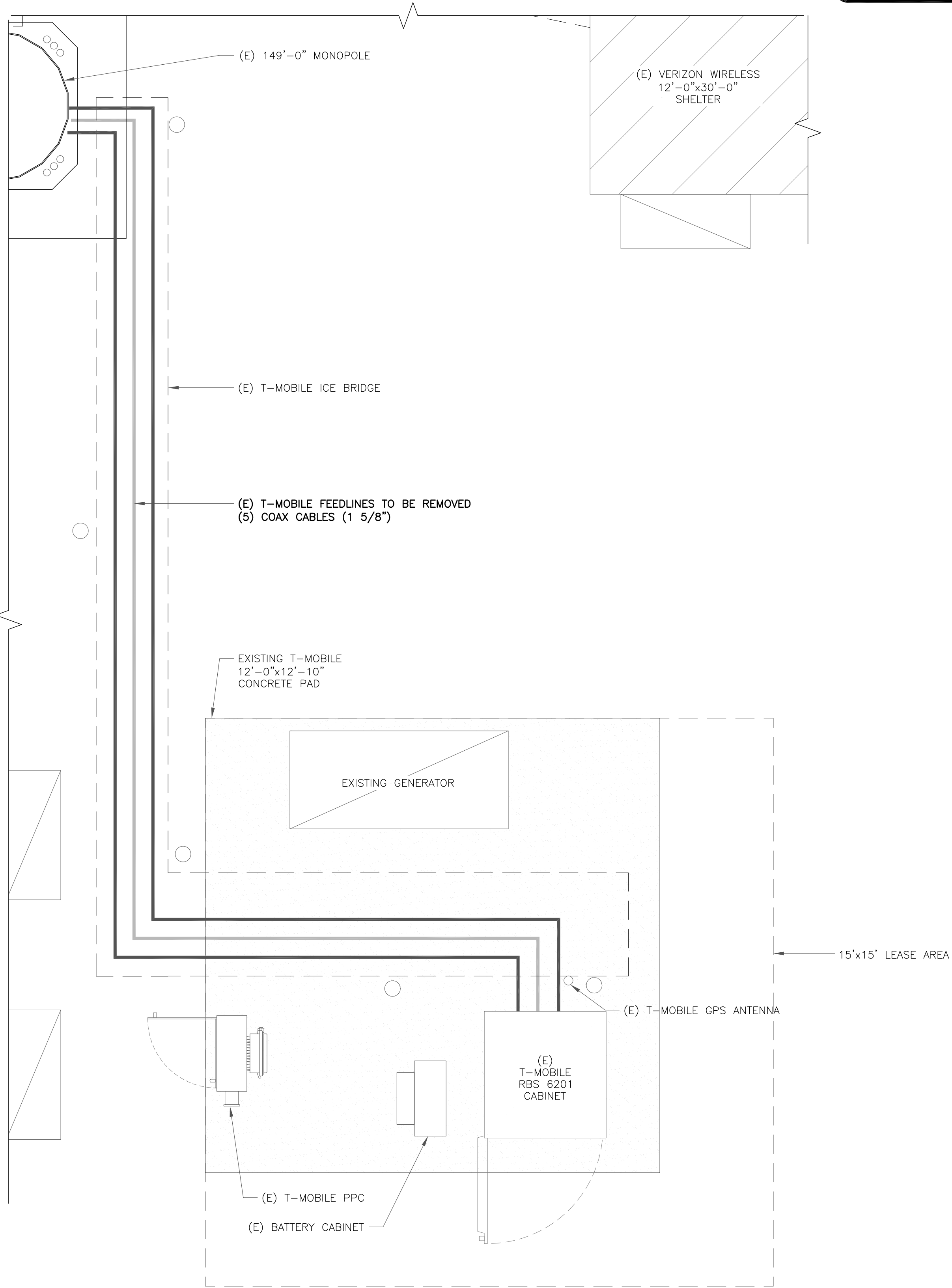
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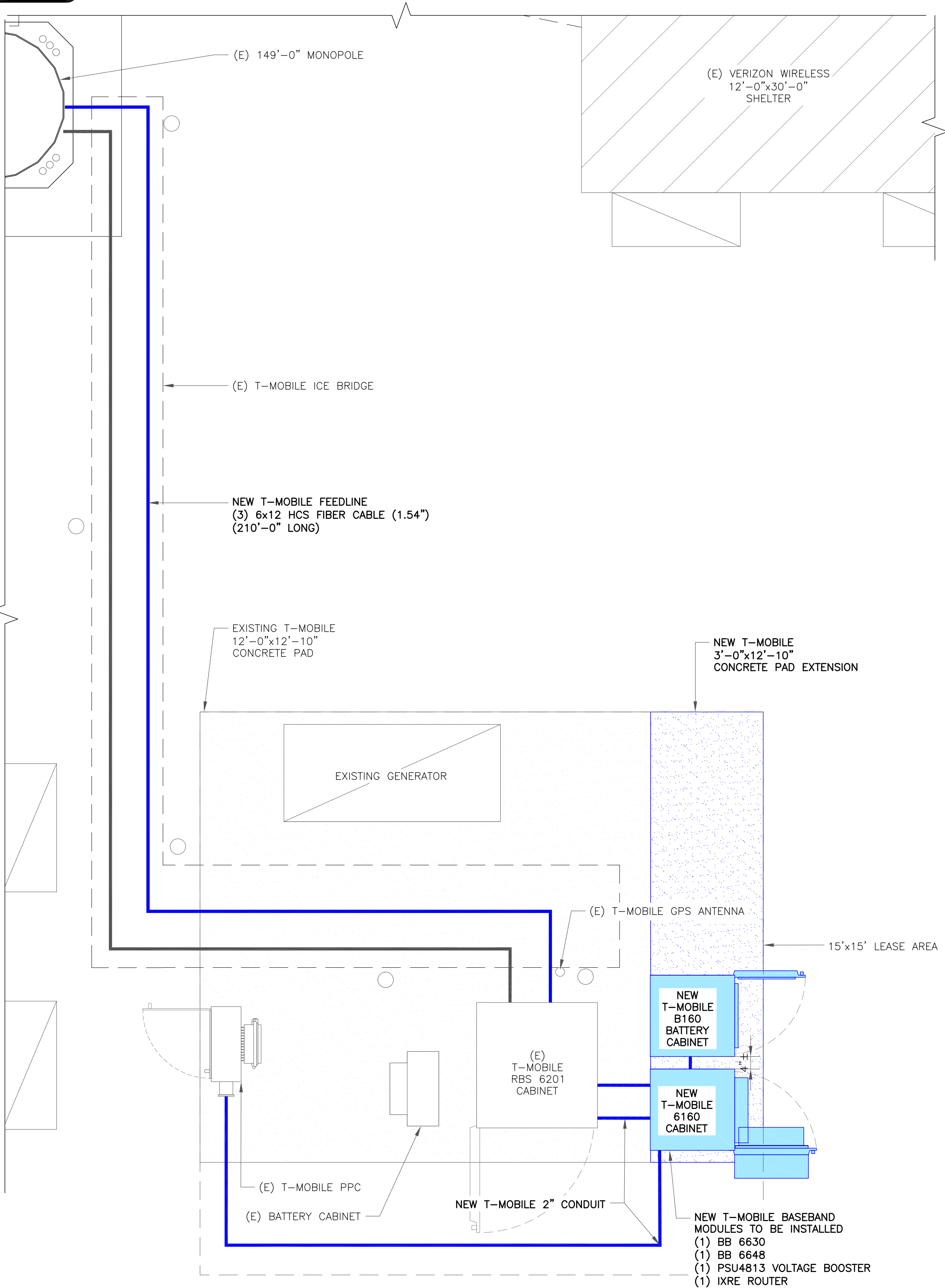
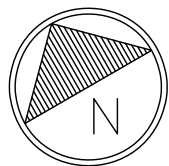
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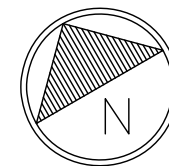
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1 EXISTING EQUIPMENT PLAN  
SCALE: 1/2"=1'-0" (FULL SIZE)  
1/4"=1'-0" (11x17)



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



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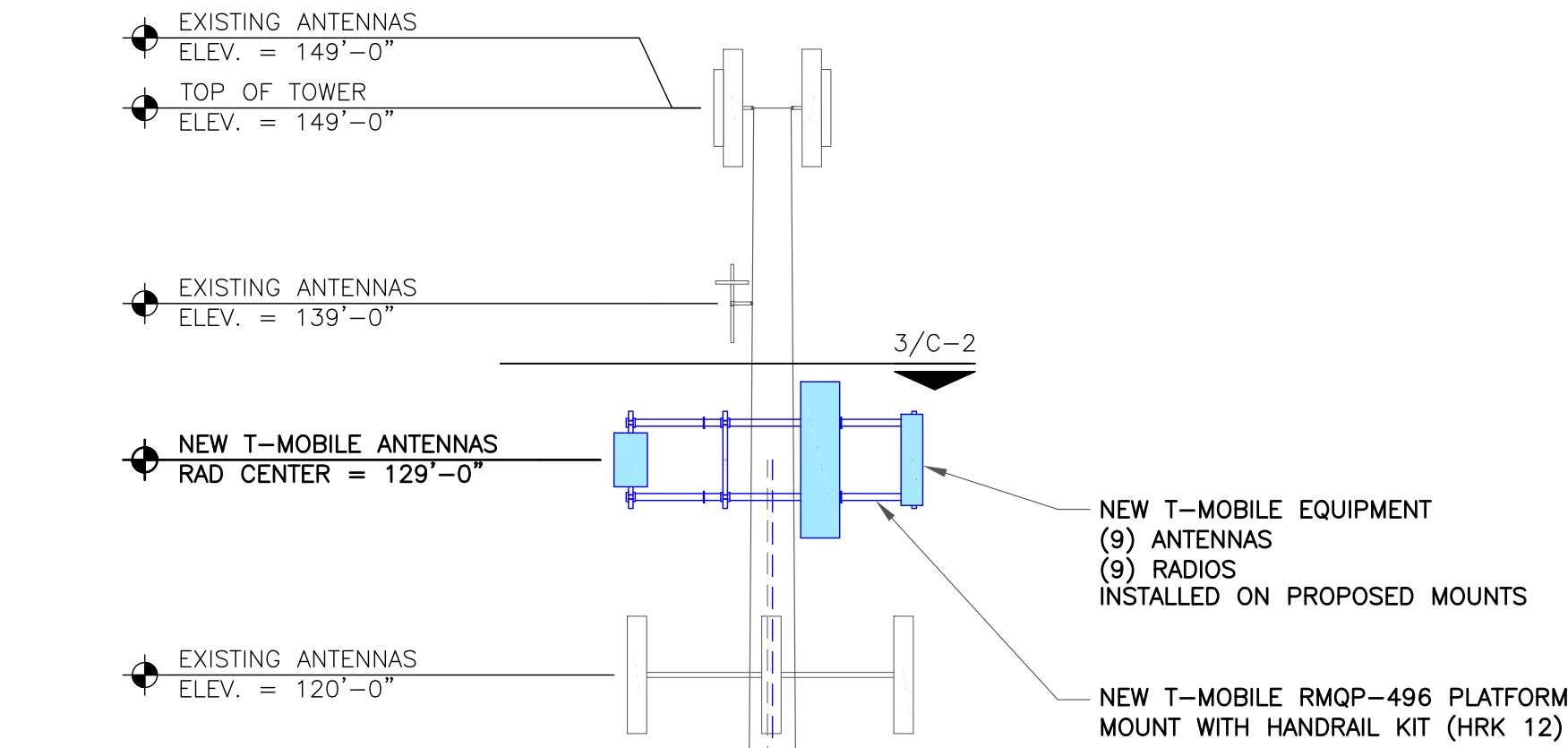
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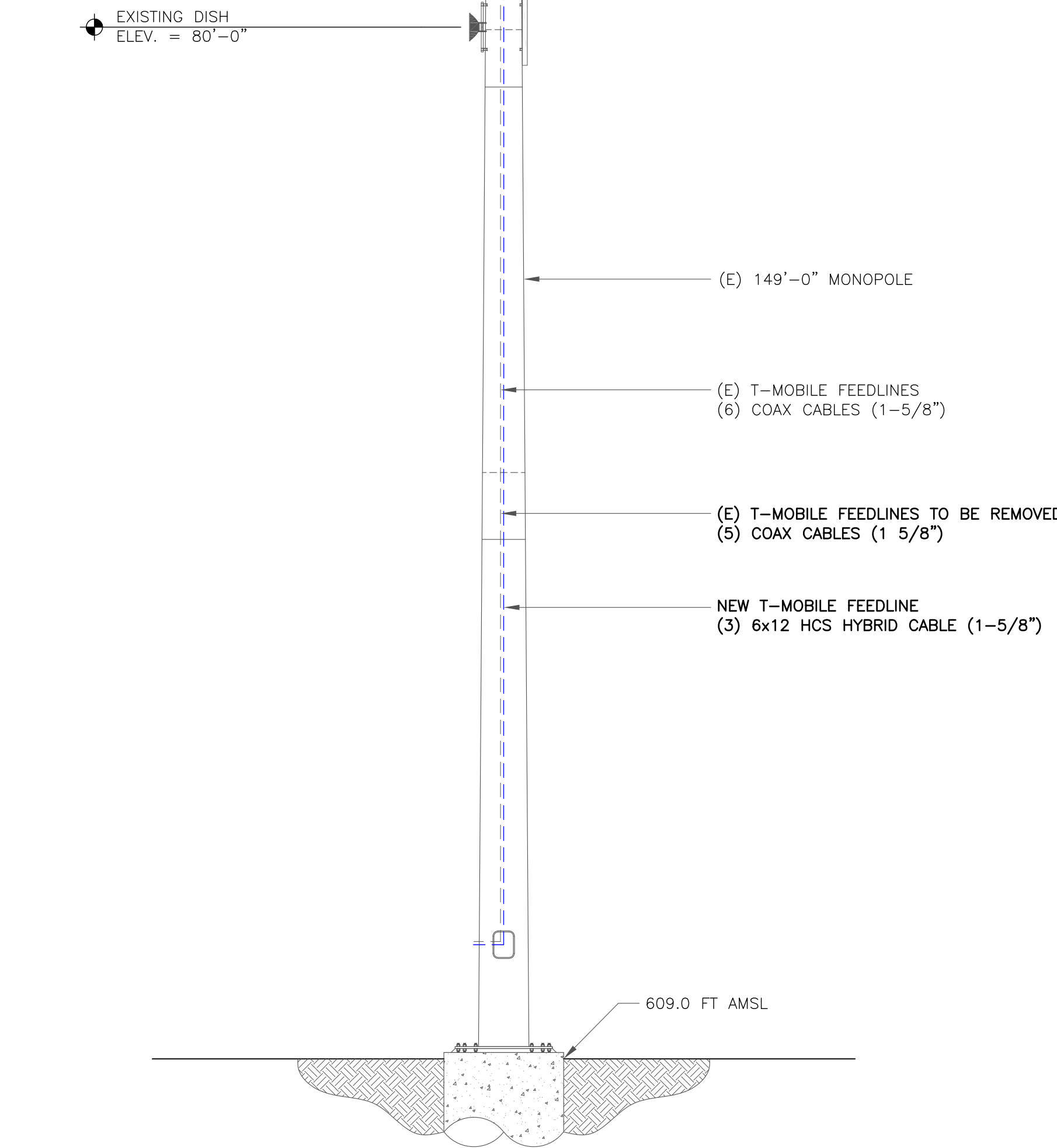
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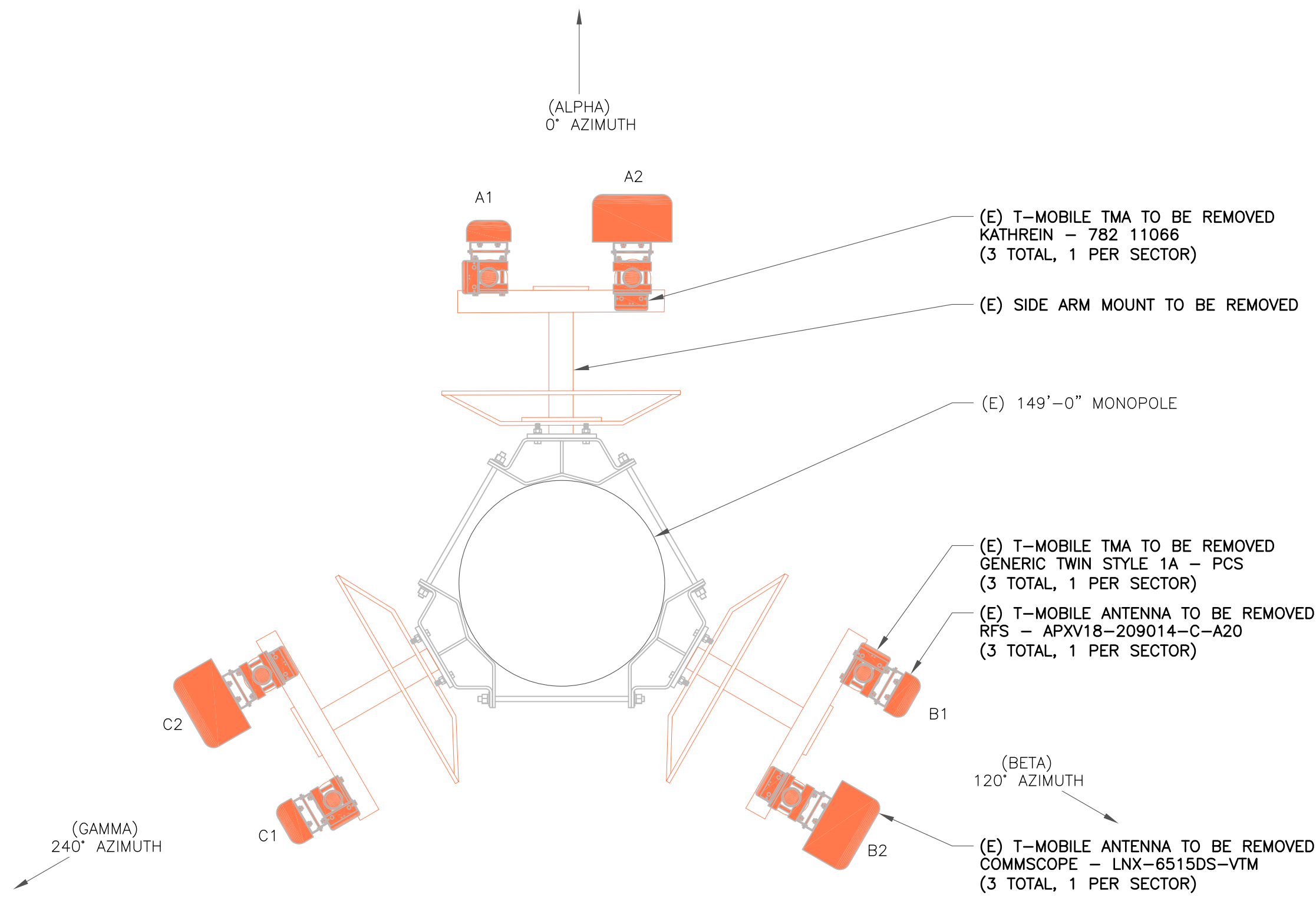
**T-MOBILE EQUIPMENT**

ANTENNA CL: 129'-0"  
MOUNT CL: 131'-0"

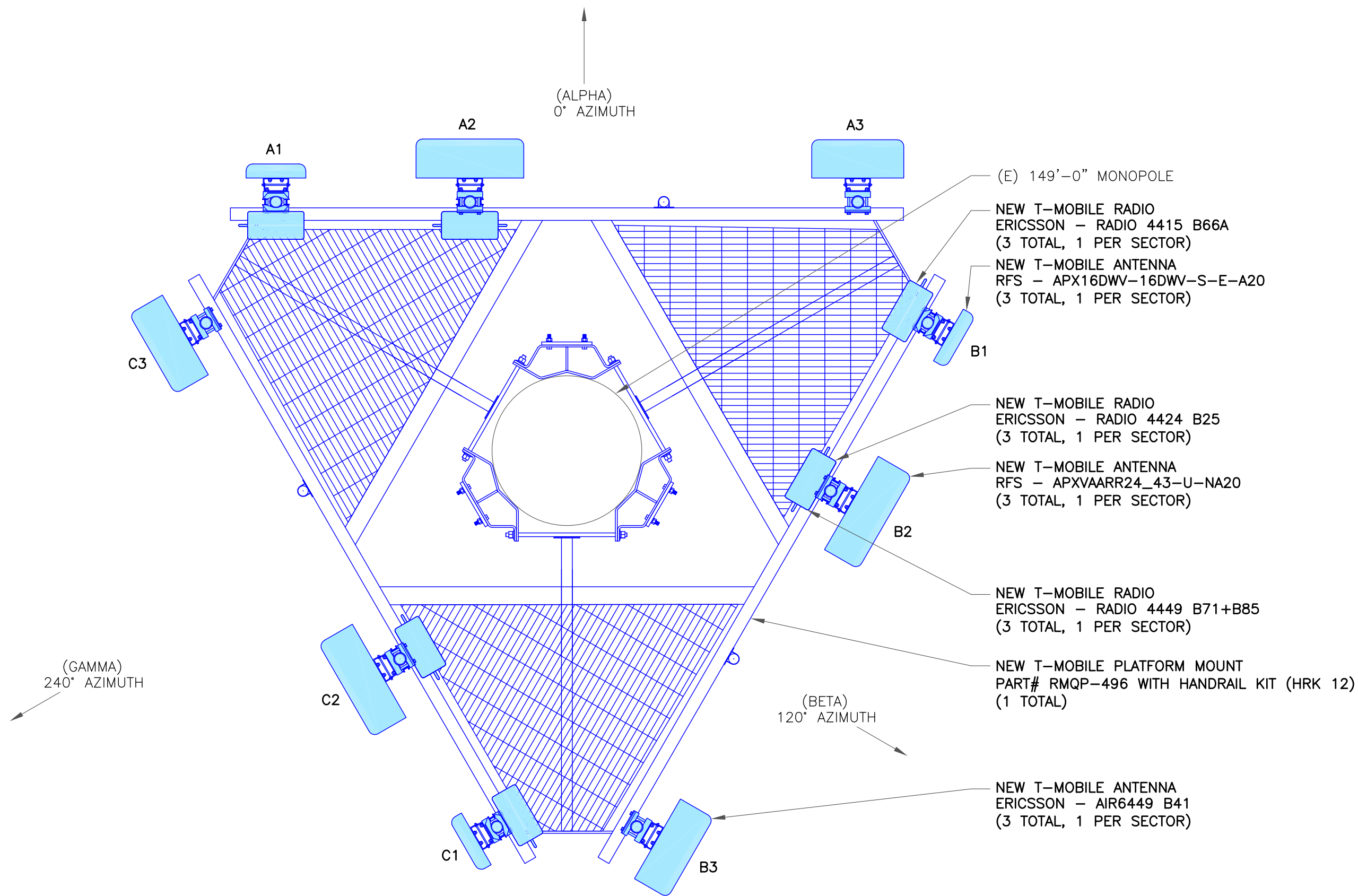
ANY AND ALL TOWER  
MOUNTED EQUIPMENT MUST  
NOT TRAP OR INTERFERE W/  
EXISTING SAFETY CLIMB



1 FINAL ELEVATION  
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN  
SCALE: NOT TO SCALE



3 FINAL ANTENNA PLAN  
SCALE: NOT TO SCALE

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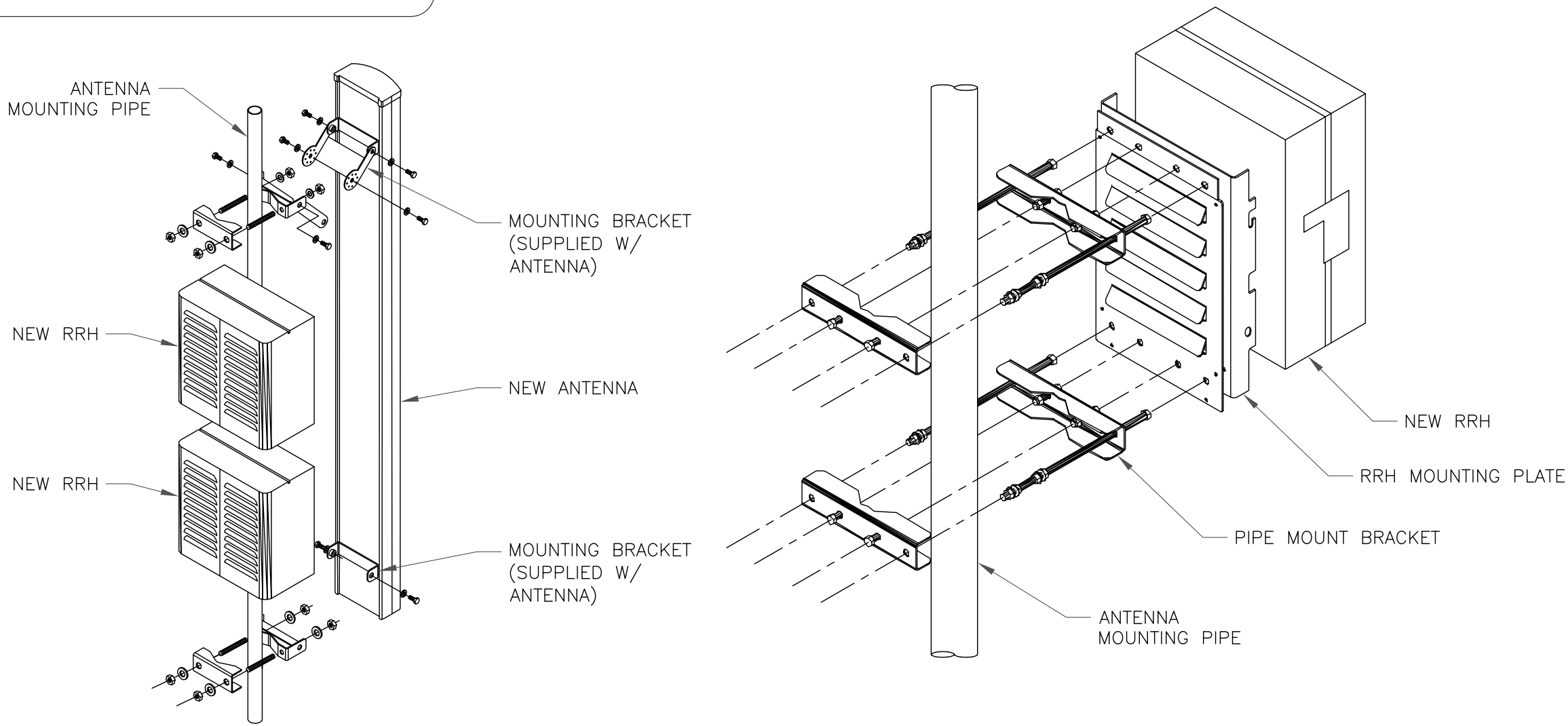
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RF SYSTEM SCHEDULE												
SECTOR	ANTENNA	TECH	MANUFACTURER	ANTENNA MODEL	AZIMUTH	M-TILT	E-TILT	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE DIAMETER	CABLE LENGTH
ALPHA	A-1	L2100	RFS	APX16DW-16DW-S-E-A20	0°	0°	-	129'-0"	(1) RADIO 4415 B66A	(6) COAX (3) FIBER	1 5/8" HCS	210' 210'
	A-2	L700/L600/ N600/L1900/G1900	RFS	APXVAARR24_43-U-NA20	0°	0°	-	129'-0"	(1) RADIO 4424 B25 (1) RADIO 4449 B71+B85			
	A-3	L2500/N2500	ERICSSON	AIR6449 B41	0°	0°	-	129'-0"	-			
BETA	B-1	L2100	RFS	APX16DW-16DW-S-E-A20	120°	0°	-	129'-0"	(1) RADIO 4415 B66A			
	B-2	L700/L600/ N600/L1900/G1900	RFS	APXVAARR24_43-U-NA20	120°	0°	-	129'-0"	(1) RADIO 4424 B25 (1) RADIO 4449 B71+B85			
	B-3	L2500/N2500	ERICSSON	AIR6449 B41	120°	0°	-	129'-0"	-			
GAMMA	C-1	L2100	RFS	APX16DW-16DW-S-E-A20	240°	0°	-	129'-0"	(1) RADIO 4415 B66A			
	C-2	L700/L600/ N600/L1900/G1900	RFS	APXVAARR24_43-U-NA20	240°	0°	-	129'-0"	(1) RADIO 4424 B25 (1) RADIO 4449 B71+B85			
	C-3	L2500/N2500	ERICSSON	AIR6449 B41	240°	0°	-	129'-0"	-			

1 ANTENNA & FEEDLINE SCHEDULE  
SCALE: NOT TO SCALE

- INSTALLER NOTES:
1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
  2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
  3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



2 ANTENNA WITH RRHs MOUNTING DETAIL  
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:  
CTNH211B

BU #: 845455  
OXFORD-QUAKER FARMS

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

EXISTING  
149'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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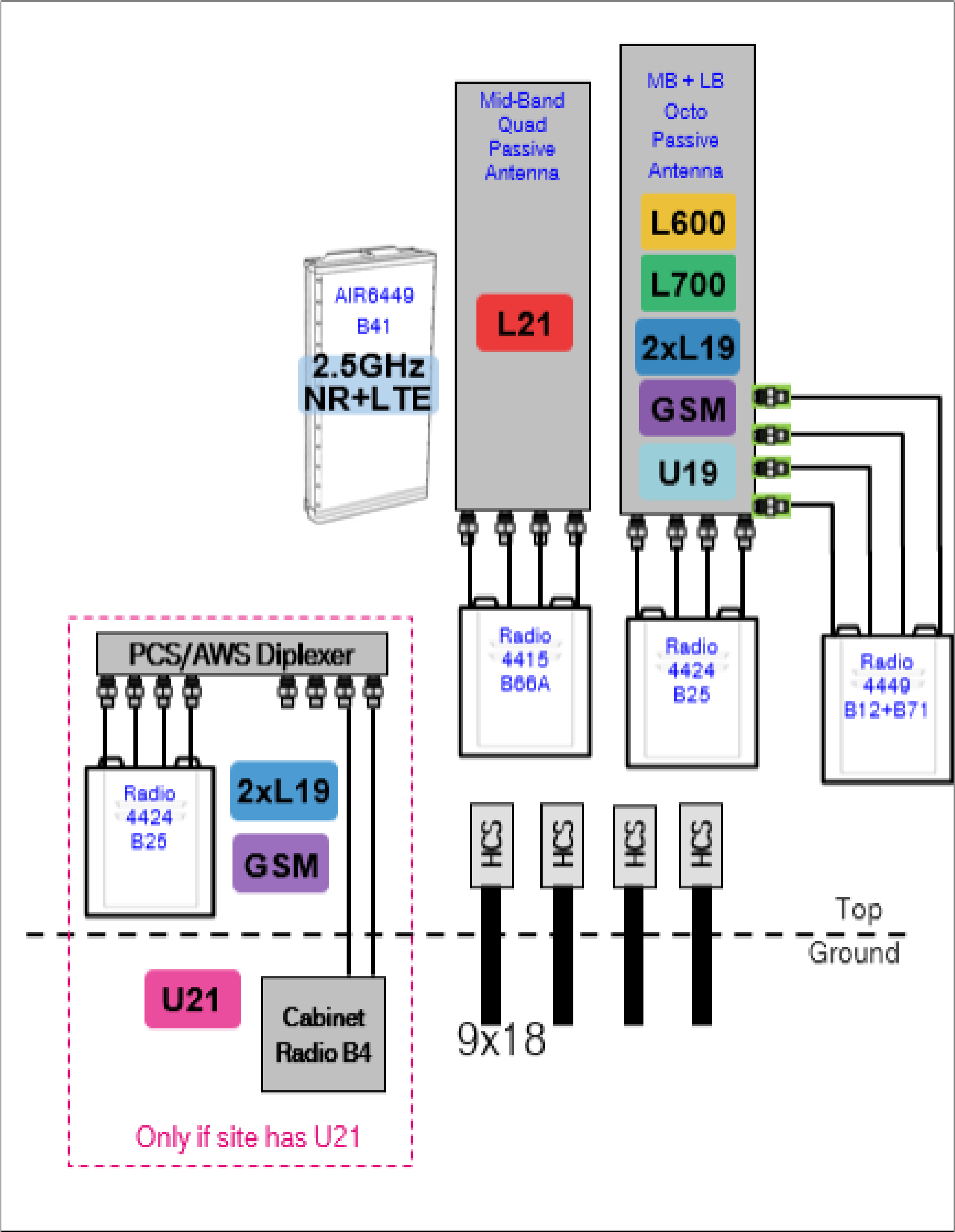
C-3

REVISION:

2



1:36:37 01:11 01\_OXFORD-QUAKER FARMS\_CC\_TWO\_NE\_CD Upgrades.dwg - Sheet: C-4 - User: m.jones - Apr 06, 2021 - 1:25pm



1 PLUMBING DIAGRAM  
SCALE: NOT TO SCALE

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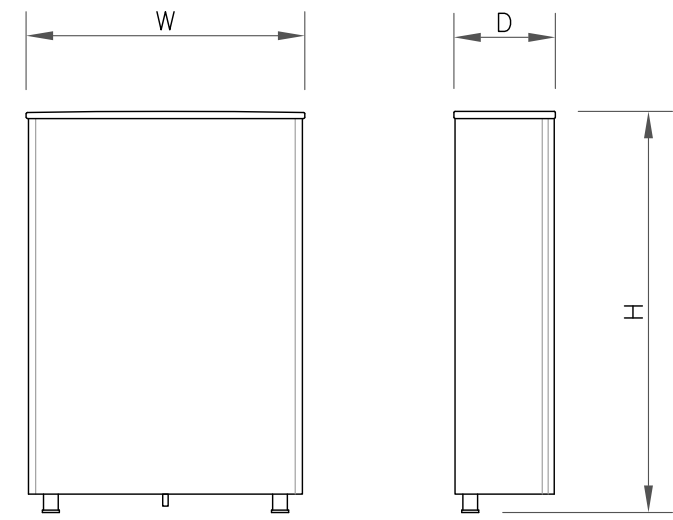
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C-4

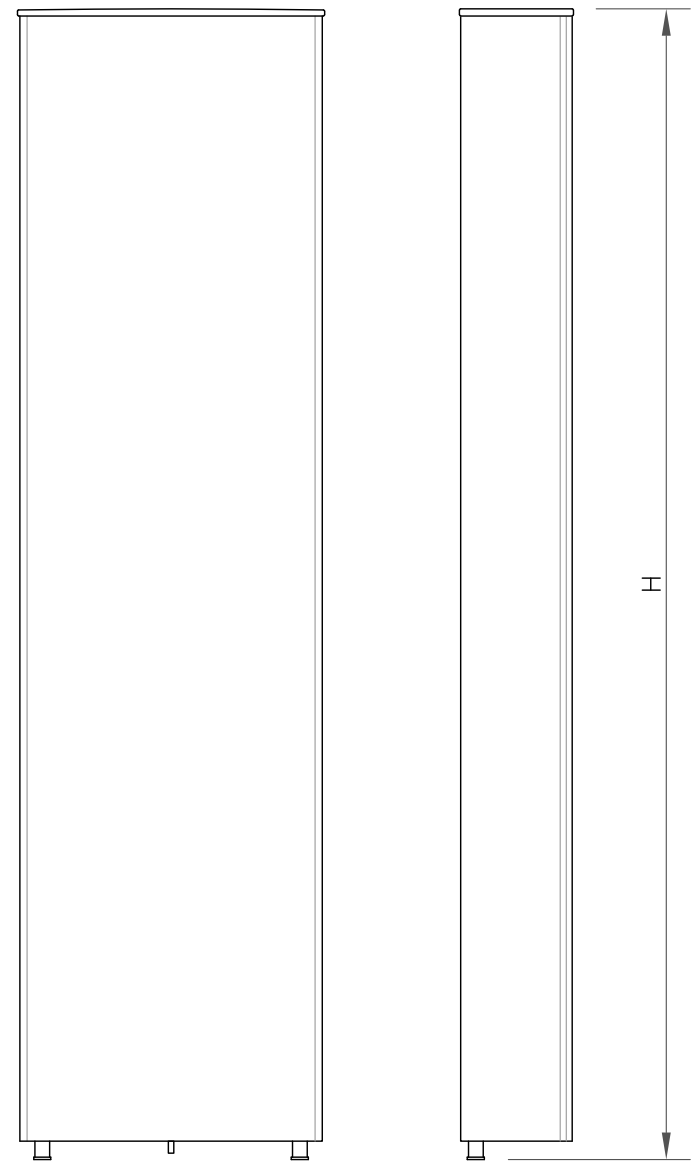
REVISION:

2



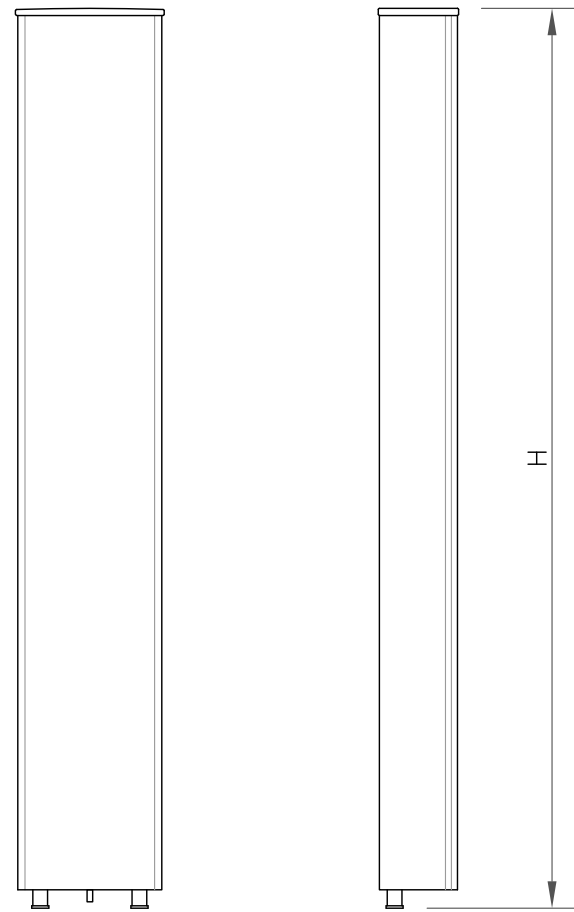
ANTENNA SPECS	
MANUFACTURER	ERICSSON
MODEL #	AIR6449 B41
WIDTH	20.51"
DEPTH	8.54"
HEIGHT	33.11"
WEIGHT	114.63 LBS

1 ANTENNA SPECS  
SCALE: NOT TO SCALE



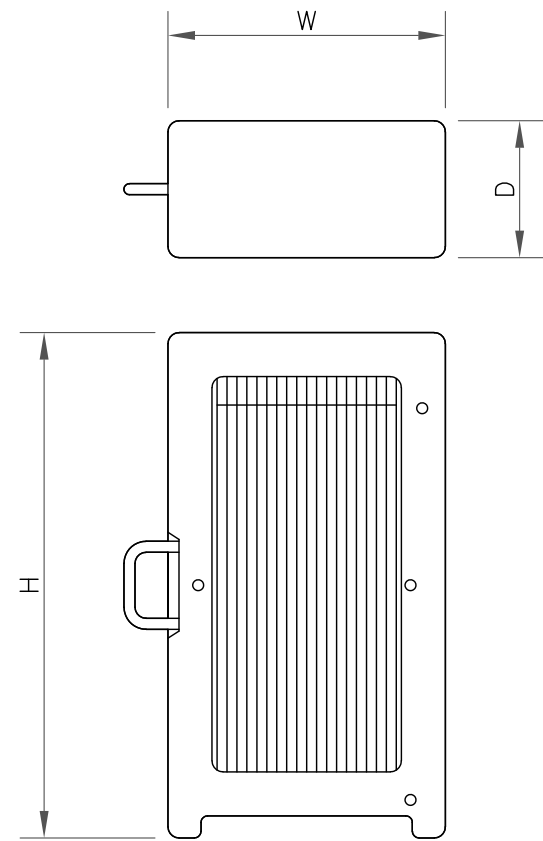
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APXVAARR24_43-U-NA20
WIDTH	24.00"
DEPTH	8.70"
HEIGHT	95.90"
WEIGHT	128.00 LBS

2 ANTENNA SPECS  
SCALE: NOT TO SCALE



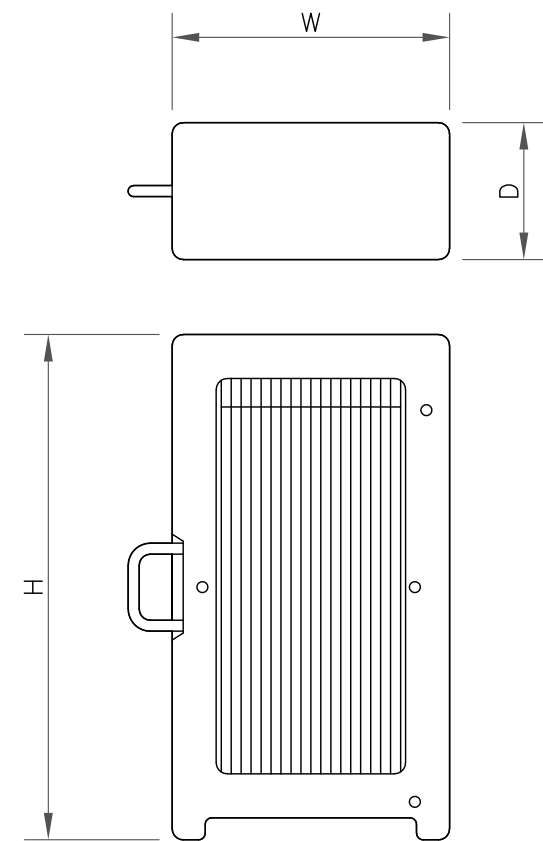
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APX16DWV-16DWV-S-E-A20
WIDTH	13.30"
DEPTH	3.15"
HEIGHT	55.90"
WEIGHT	40.70 LBS

3 ANTENNA SPECS  
SCALE: NOT TO SCALE



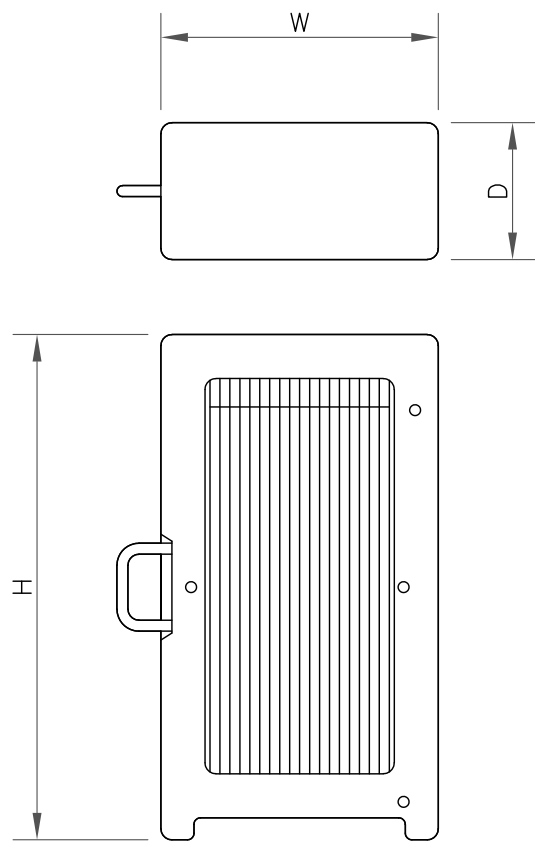
RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	RADIO 4449 B71+B85
WIDTH	13.20"
DEPTH	10.63"
HEIGHT	17.91"
WEIGHT	73.21 LBS

4 RRU SPECS  
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	RADIO 4415 B66A
WIDTH	13.20"
DEPTH	5.40"
HEIGHT	14.90"
WEIGHT	46.30 LBS

5 RRU SPECS  
SCALE: NOT TO SCALE

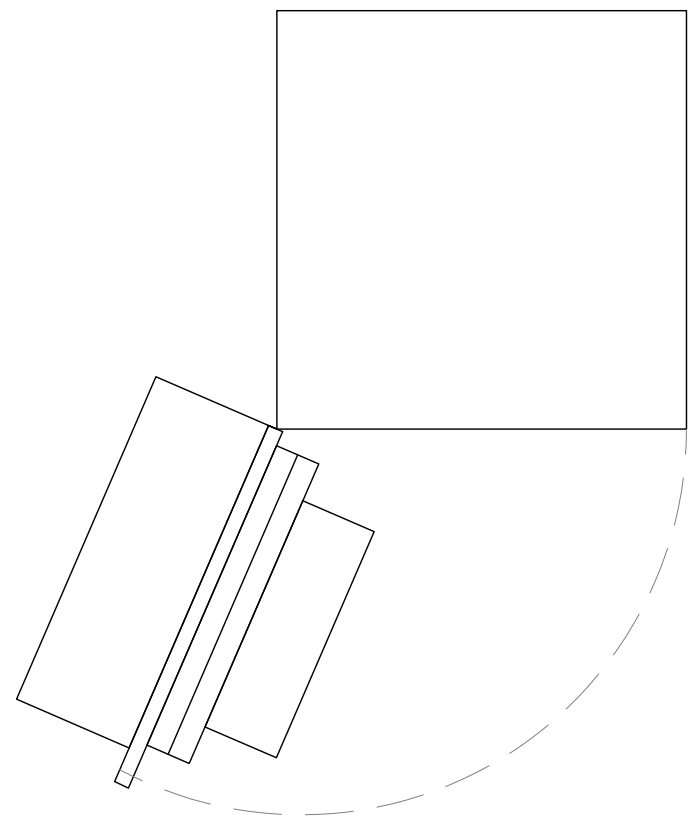


RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	RADIO 4424 B25
WIDTH	14.40"
DEPTH	11.30"
HEIGHT	17.10"
WEIGHT	86.00 LBS

6 RRU SPECS  
SCALE: NOT TO SCALE



ERICSSON 6160 SSC  
WEIGHT: 60.0 LBS  
SIZE (HxWxD): 63"x25.6"x33.5" IN.



4 ERICSSON 6160 SSC  
SCALE: NOT TO SCALE



BATTERY CABINET SPECIFICATIONS	
MODEL #	B160
MANUF.	ERICSSON
HEIGHT	63"
WIDTH	26"
DEPTH	26"
WEIGHT	

8 ERICSSON B160 BATTERY CABINET  
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:  
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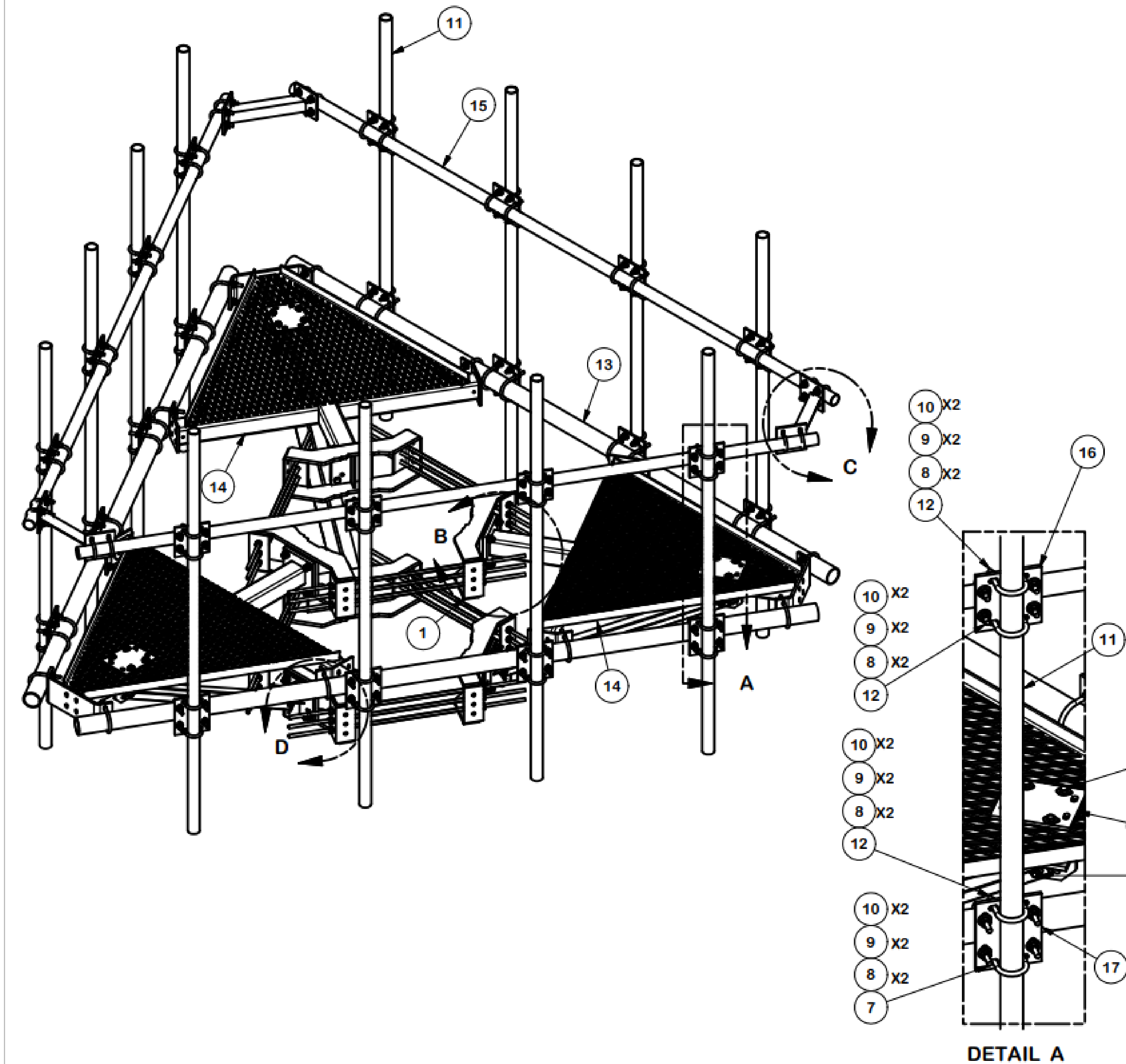
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REVISION:

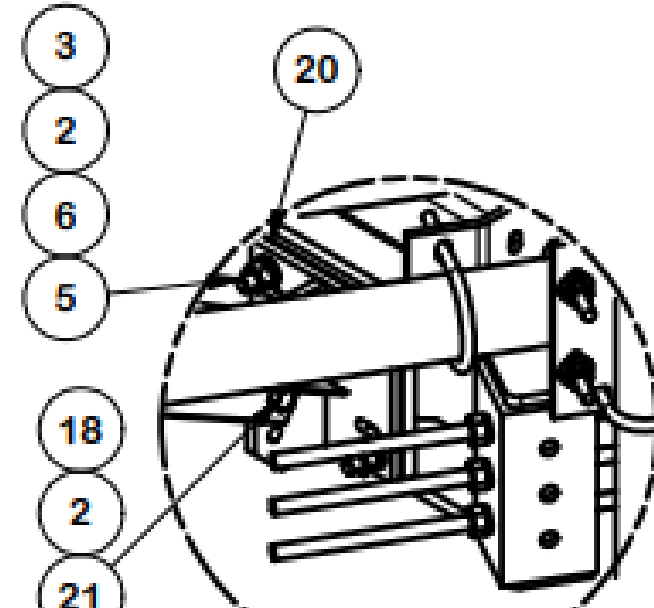
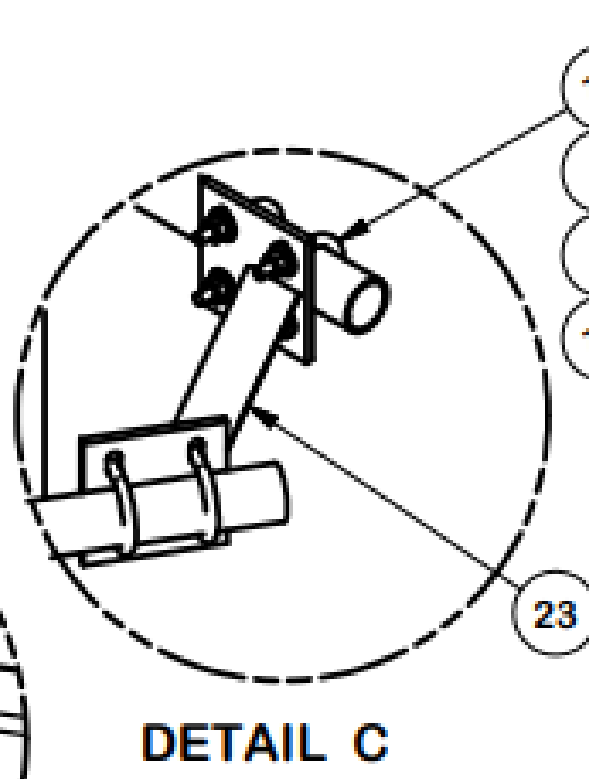
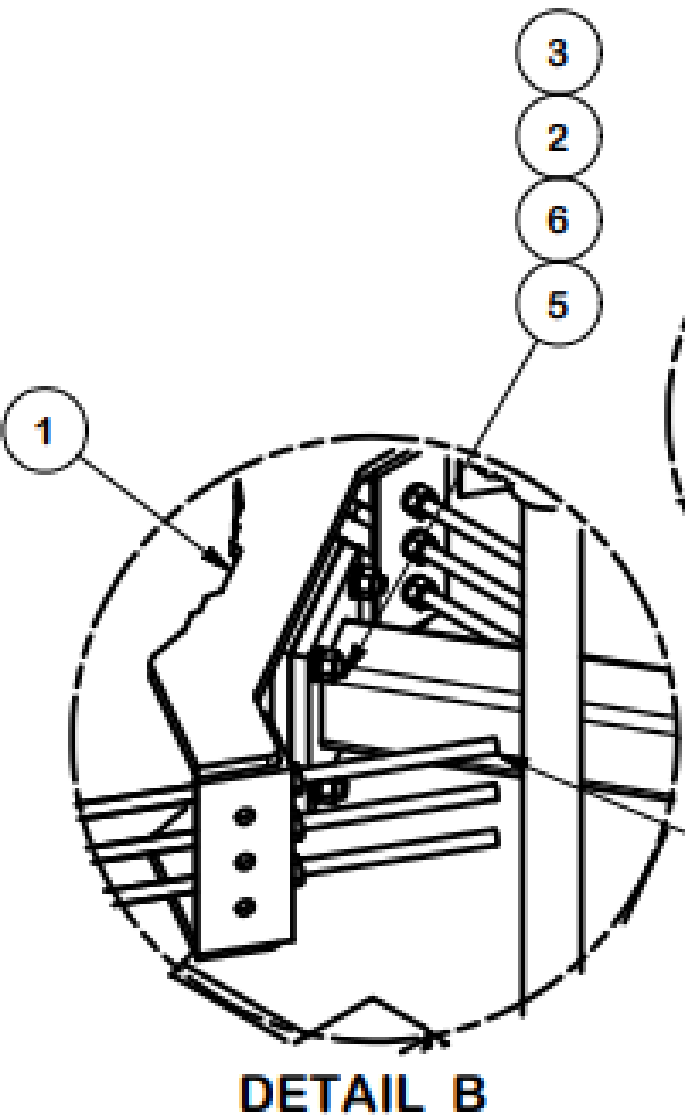
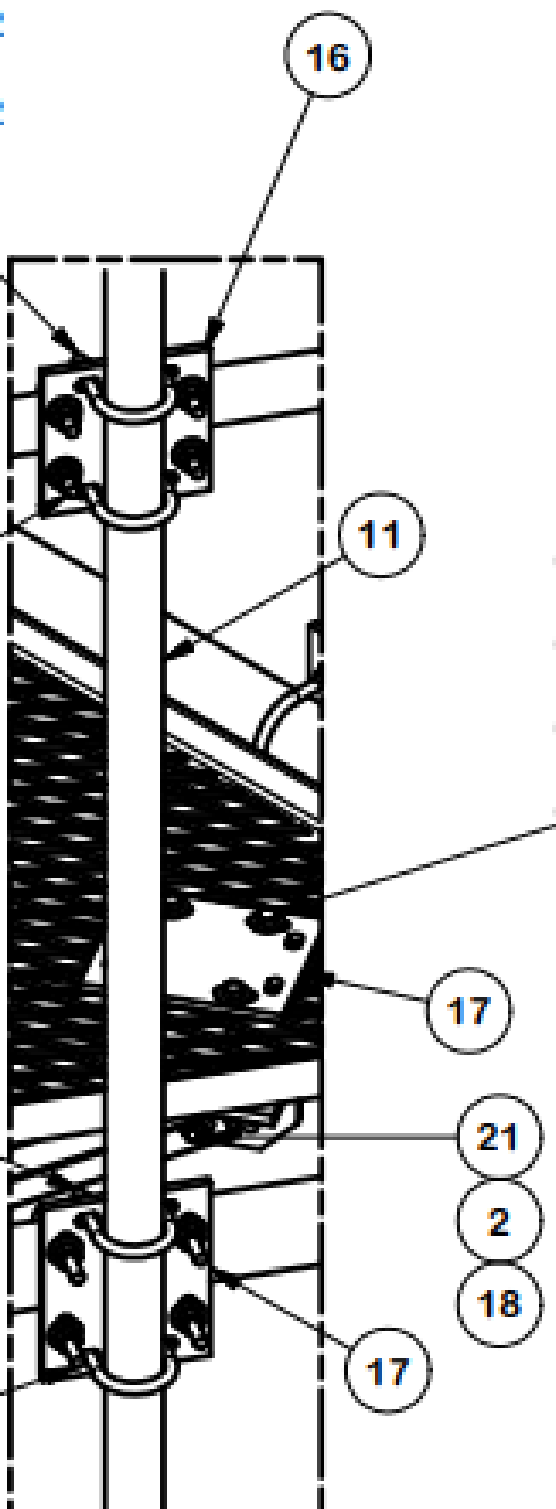
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136377 01 1.01\_OXFORD-QUAKER FARMS\_CC\_TMO\_NE\_CD\_Upgrade.dwg -- Sheet: C-6 -- User: mjpores -- Apr. 06, 2021 -- 1:25pm



- 10 X2
- 9 X2
- 8 X2
- 12
- 10 X2
- 9 X2
- 8 X2
- 12
- 10 X2
- 9 X2
- 8 X2
- 12



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
8	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
9	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	50.17
13	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
TOTAL WT. #						2445.81

1 RMQP-496 PLATFORM MOUNT  
SCALE: NOT TO SCALE

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SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE NUMBER:  
**CTNH211B**

BU #: 845455  
**OXFORD-QUAKER FARMS**

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

EXISTING  
149'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	11/9/20	JTS	CONSTRUCTION	MTJ
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**C-6**

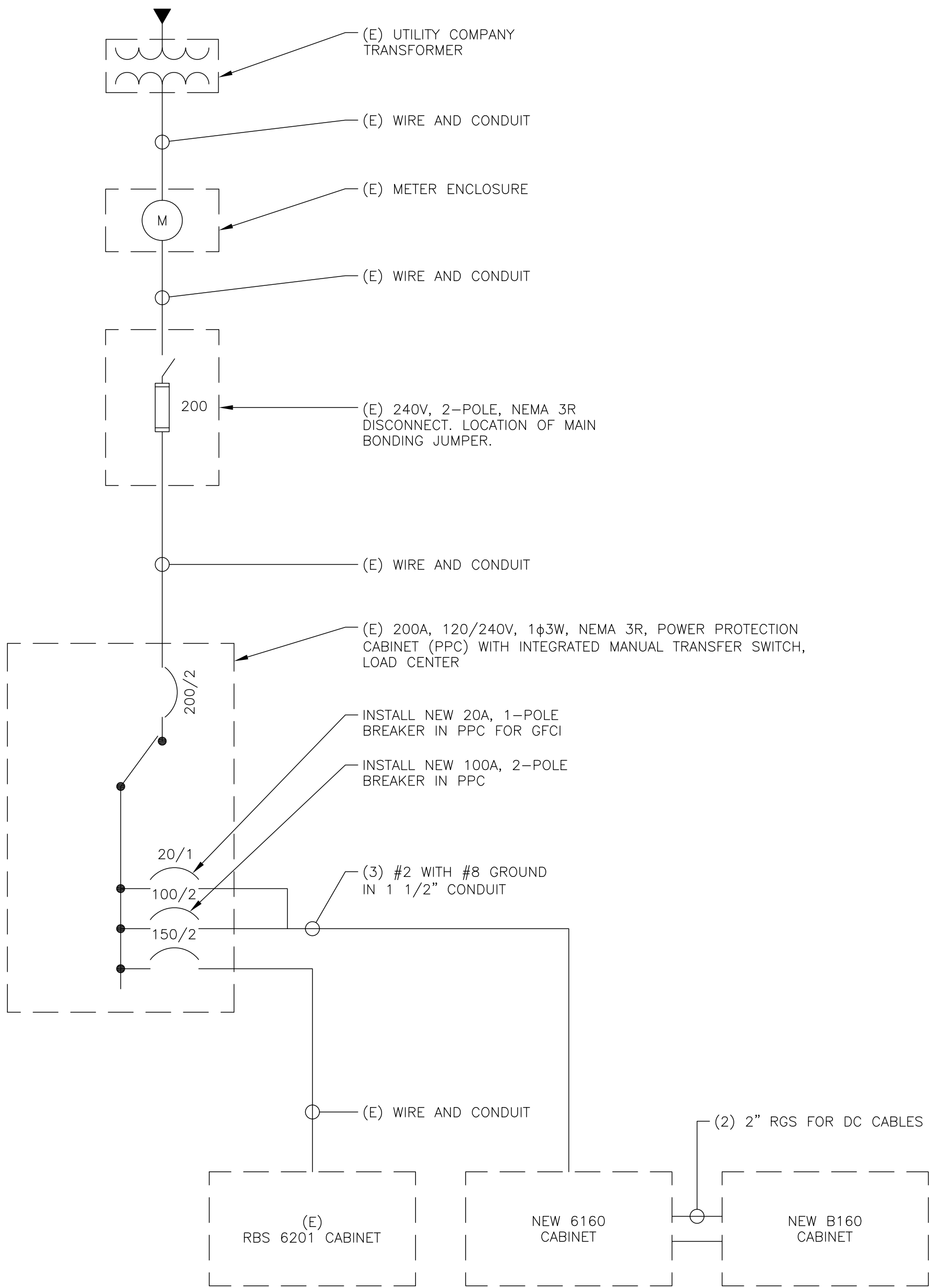
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**2**

1:36:37 01.1.01\_OXFORD--QUAKER\_FARMS\_CC\_TWO\_NE\_CD\_Upgrade.dwg -- Sheet:E-1 -- User: m.jones -- Apr 06, 2021 -- 1:25pm

FINAL PANEL SCHEDULE									
LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD		
			L1	L2					
SURGE	2	60A	1	2	20A	1	LFI RECENT		
			3	4	15A	1	LED FLOOD		
			5	6	100A	2	6160 CABINET		
7	8								
RBS 6201	2	60A	9	10	20A	1	6160 GFCI		
			11	12					
			13	14					
6160 GFCI	2	20A	15	16					
RATED VOLTAGE: <input checked="" type="checkbox"/> 120/240 <input type="checkbox"/> _____ 1 PHASE, 3 WIRE				BRANCH POLES: <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24 <input type="checkbox"/> 30 <input type="checkbox"/> 42			APPROVED MF'RS		
RATED AMPS: <input type="checkbox"/> 100 <input checked="" type="checkbox"/> 200 <input type="checkbox"/> 400 <input type="checkbox"/> _____				CABINET: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH			NEMA <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 3R <input type="checkbox"/> 4X		
<input type="checkbox"/> MAIN LUGS ONLY <input checked="" type="checkbox"/> MAIN 200 AMPS <input checked="" type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCH				<input checked="" type="checkbox"/> HINGED DOOR			<input checked="" type="checkbox"/> KEYED DOOR LATCH		
<input type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER <input type="checkbox"/> BRANCH DEVICES				<input type="checkbox"/> _____ TO BE GFCI BREAKERS			FULL NEUTRAL BUS <input type="checkbox"/> GROUND BAR		
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL									
REPLACE EXISTING BREAKER IN POSITION 6 AND 8 WITH A NEW 2P 100A BREAKER									
REPLACE EXISTING BREAKER IN POSITION 10 WITH A NEW 2P 20A BREAKER									
IF 100A BREAKER WILL NOT PROPERLY FIT IN EXISTING PANEL, REPLACE (E) PANEL WITH SQUARE D PANEL QO12040M200RB (OR APPROVED EQUAL)									
UPGRADE FEEDER WIRES TO MEET AMPACITY IF NEW PANEL IS REQUIRED.									
FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS									

1

FINAL T-MOBILE PANEL DETAIL  
SCALE: NOT TO SCALE



- NOTES:
- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
  - CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
  - ALL GROUNDING AND BONDING PER THE NEC.

2

ONE LINE DIAGRAM  
SCALE: NOT TO SCALE

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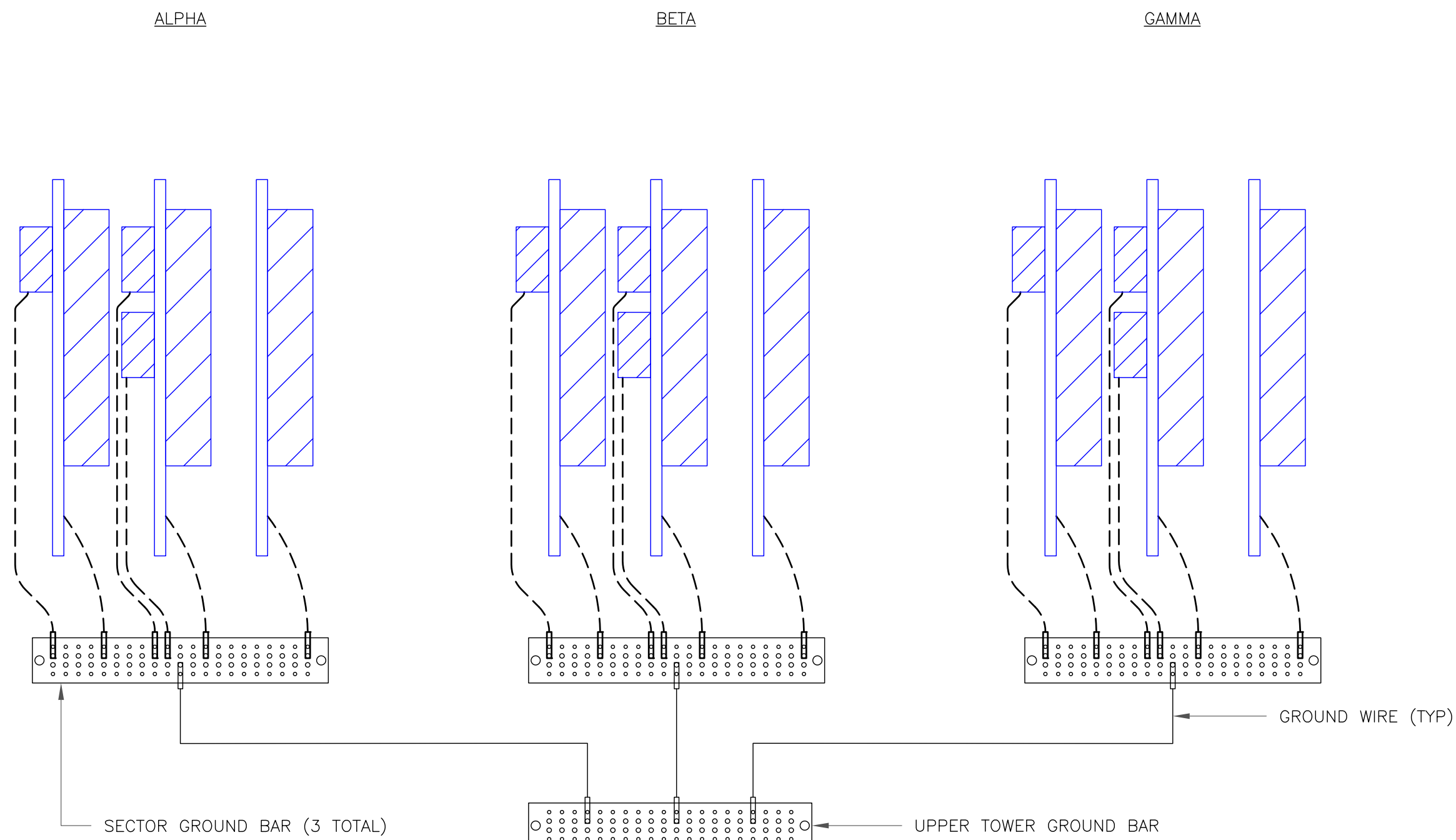
E-1

REVISION:

2



1:36:37 01:1:01\_OXFORD-QUAKER FARMS\_CC\_TWO\_NE\_CD Upgrades.dwg - Sheet:G-1 - User: m.jones - Apr 06, 2021 - 1:25pm



NOTE:  
ALL NEW GROUNDS TO BE #6 STRANDED  
COPPER WITH GREEN INSULATION UNLESS  
NOTED OTHERWISE.

1 ANTENNA GROUNDING DIAGRAM  
SCALE: NOT TO SCALE

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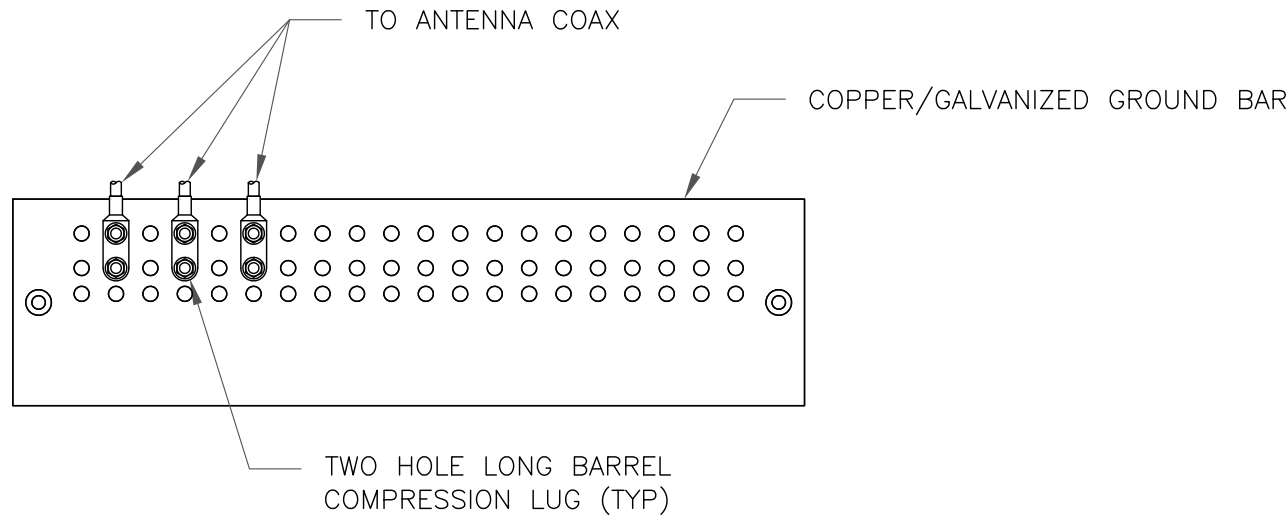
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G-1

REVISION:

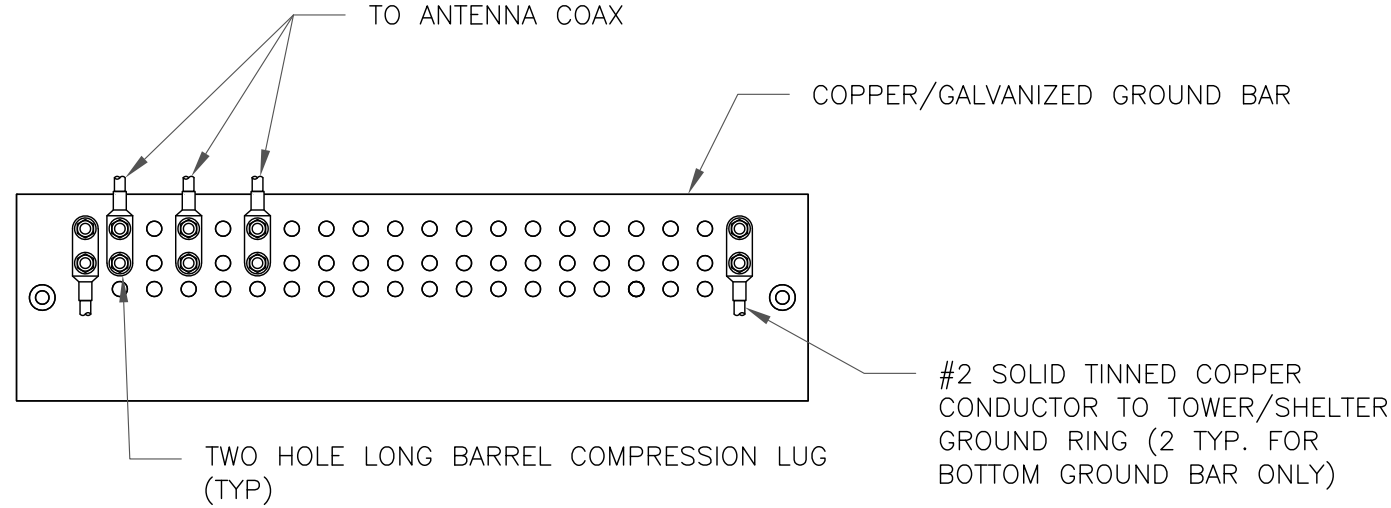
2



NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

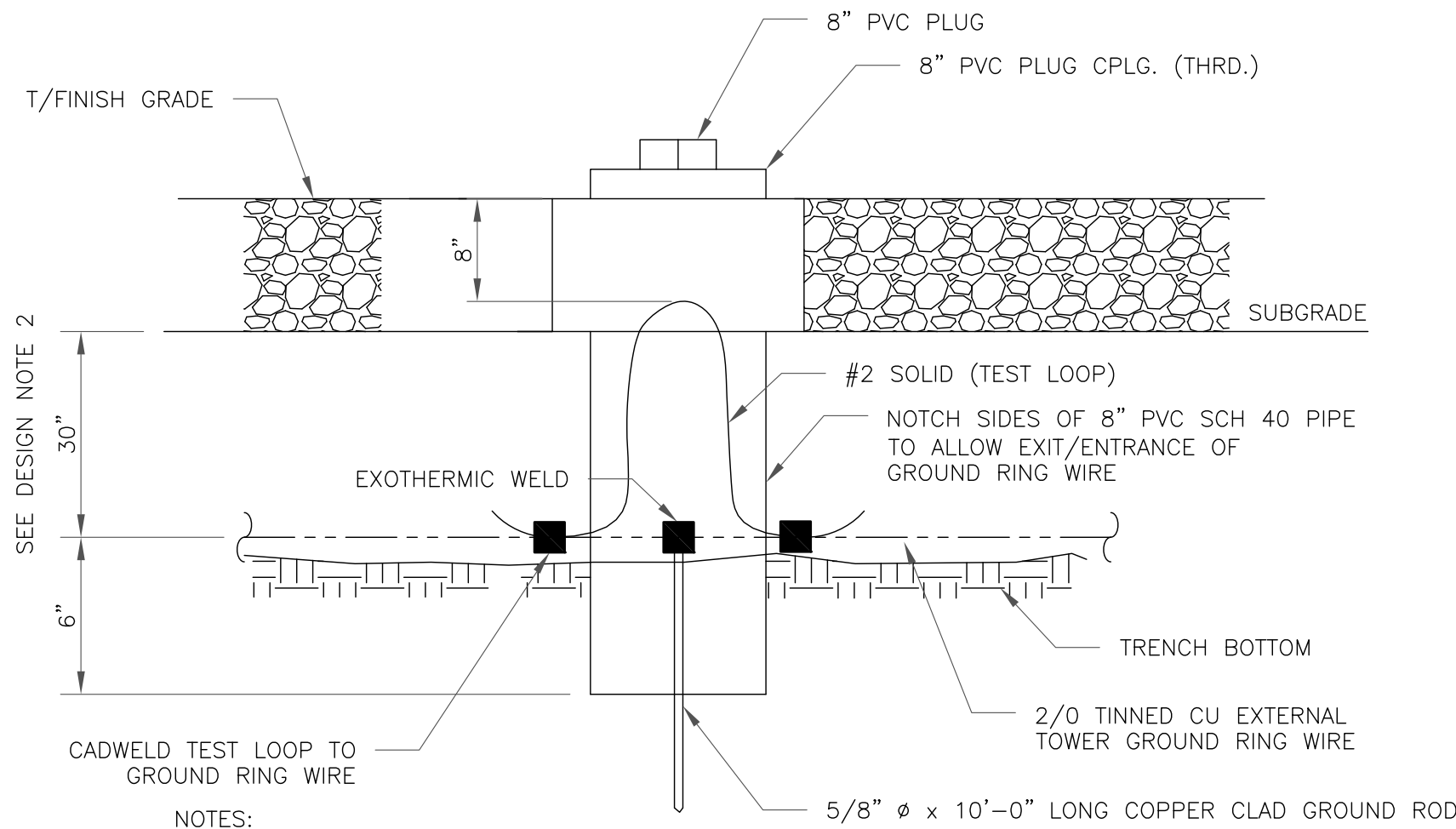
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

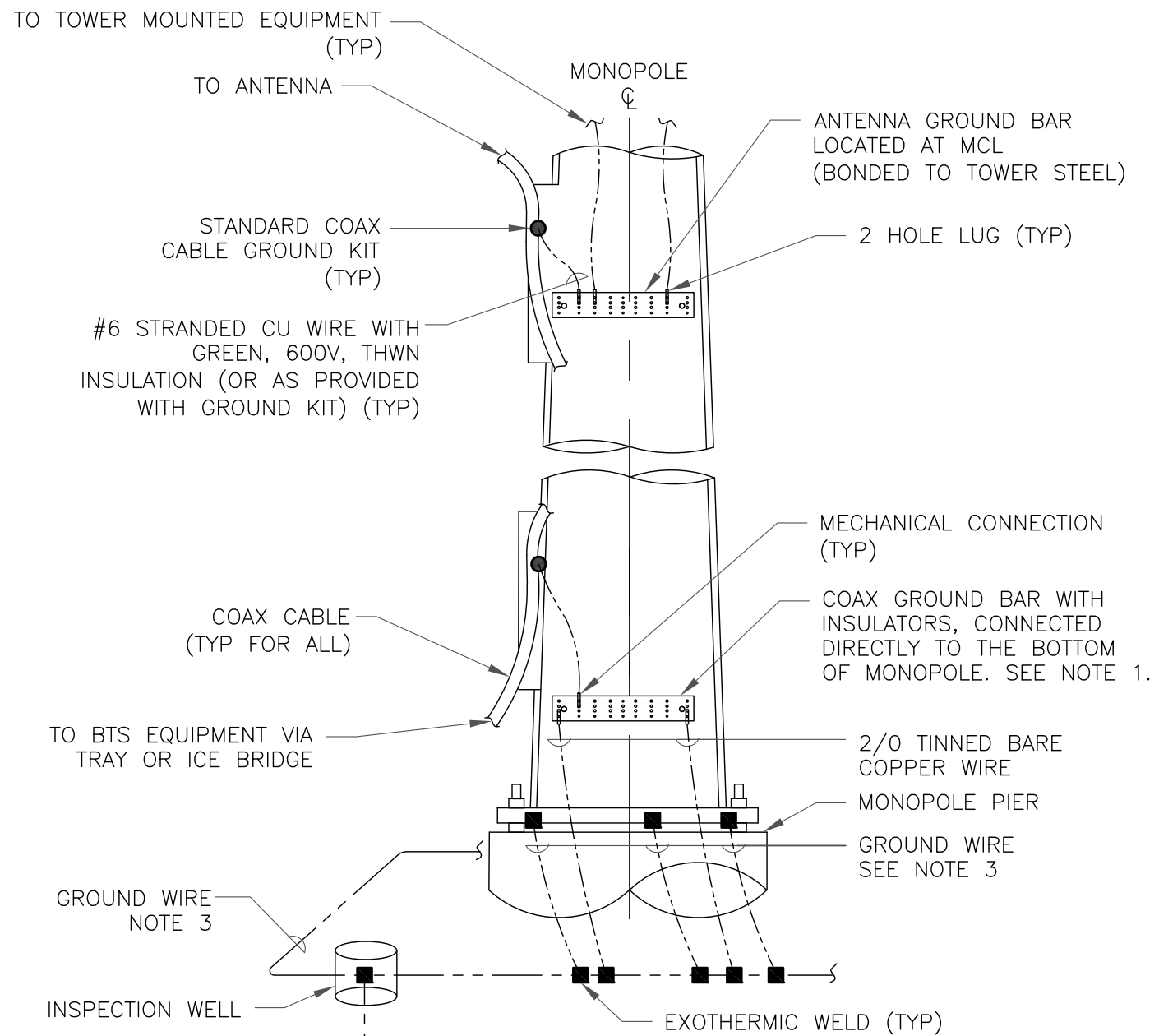
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

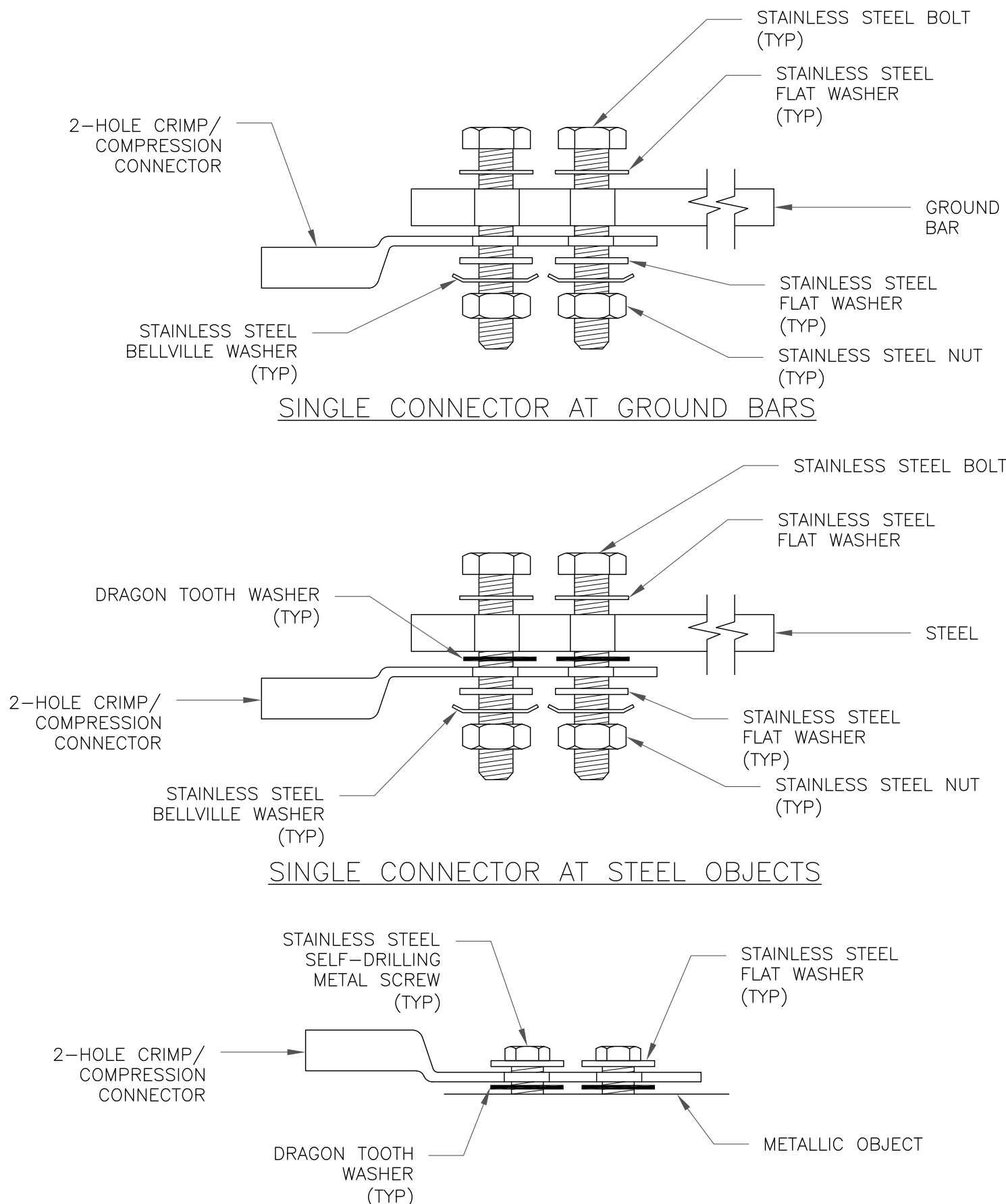
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



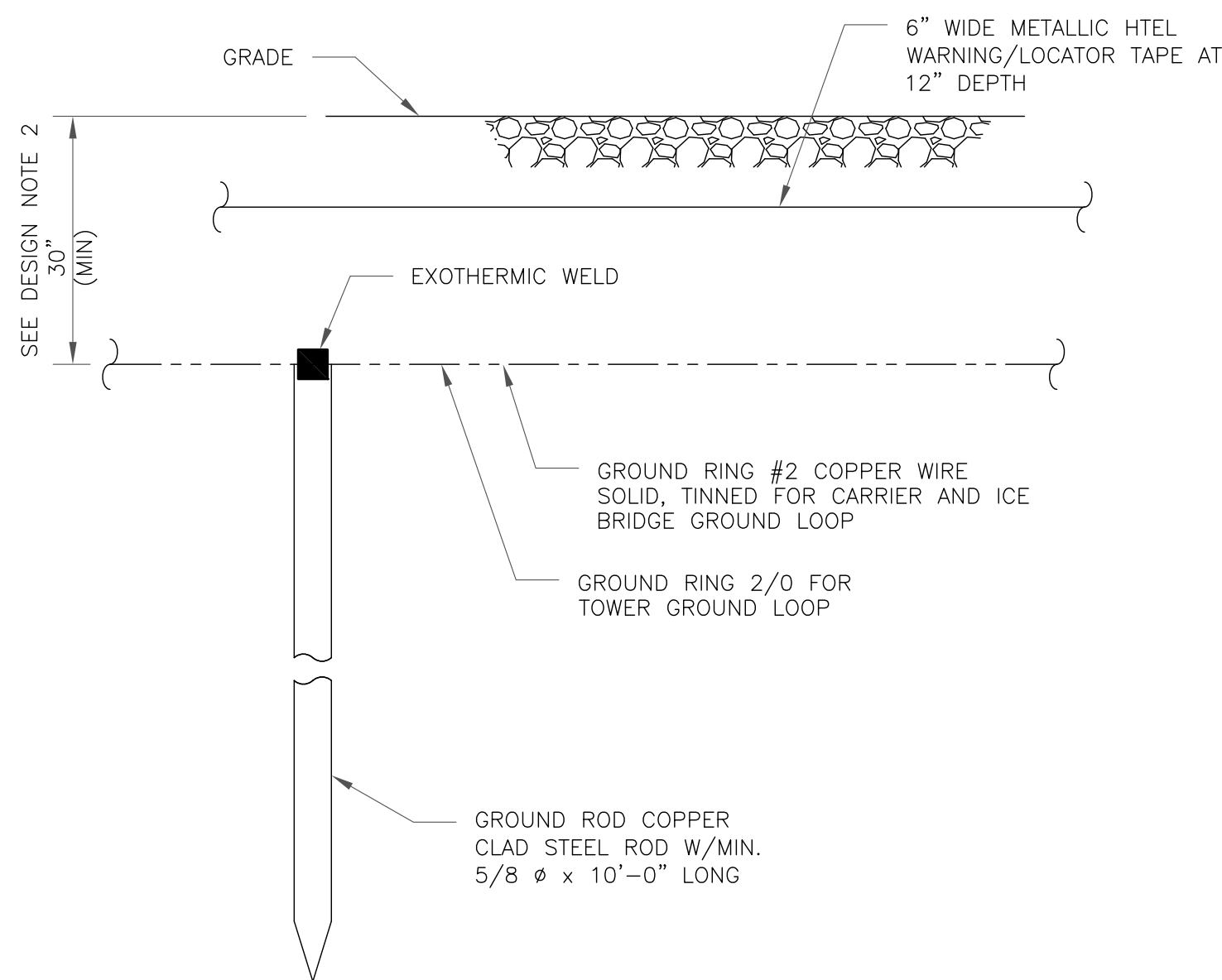
NOTES:

- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

T-Mobile

4 SYLVAN WAY  
PARSIPPANY, NJ 07054

CROWN  
CASTLE

3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277

B+T GRP

1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

T-MOBILE SITE NUMBER:  
CTNH211B

BU #: 845455  
OXFORD-QUAKER FARMS

85 QUAKER FARMS ROAD  
OXFORD, CT 06478

EXISTING  
149'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	11/9/20	JTS	CONSTRUCTION	MTJ
1	11/16/20	JTS	CONSTRUCTION	MTJ
2	4/6/21	GEH	CONSTRUCTION	MTJ



B&T ENGINEERING, INC.  
PEC.0001564  
Expires 2/10/21

IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

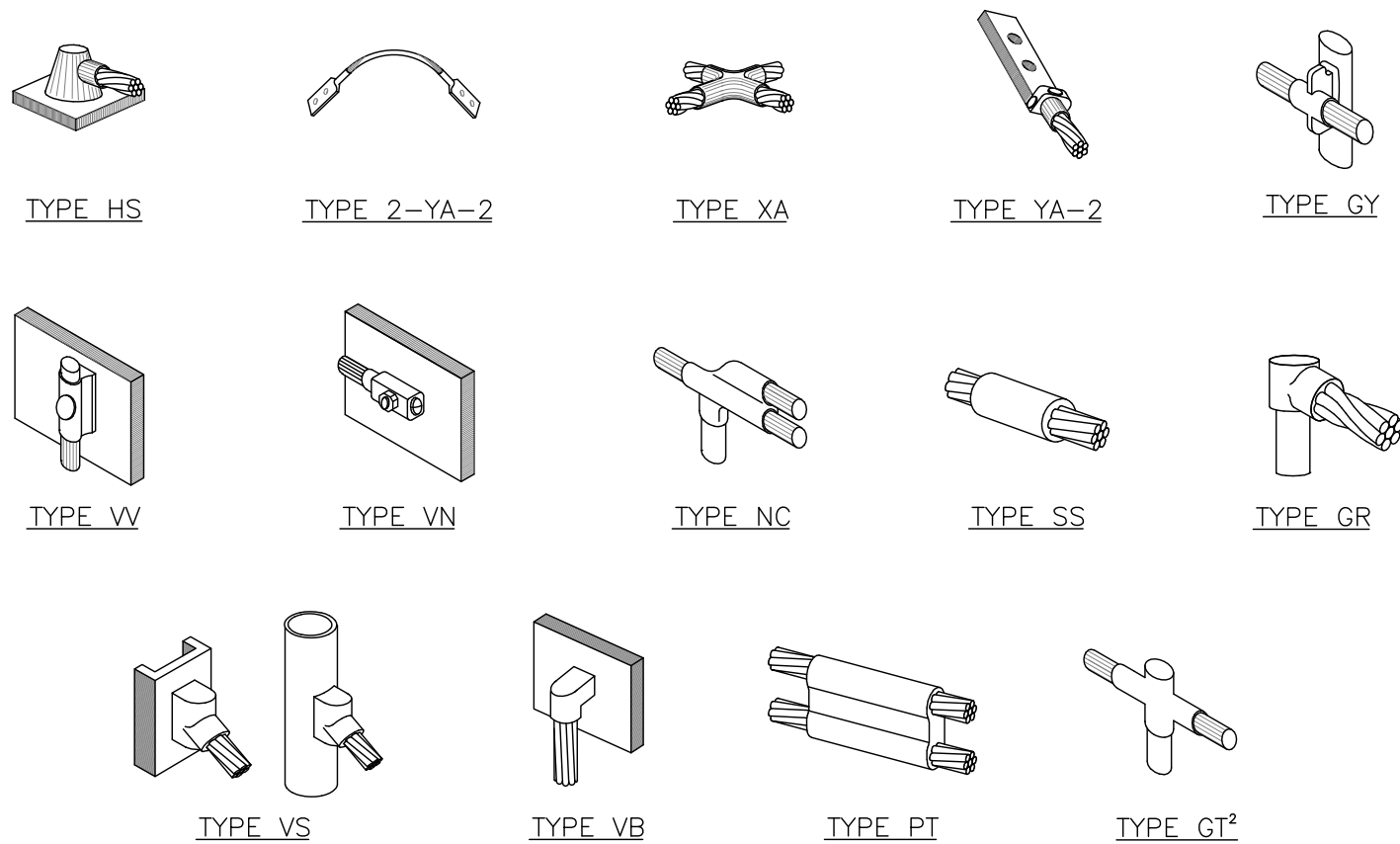
SHEET NUMBER:

G-2

REVISION:

2

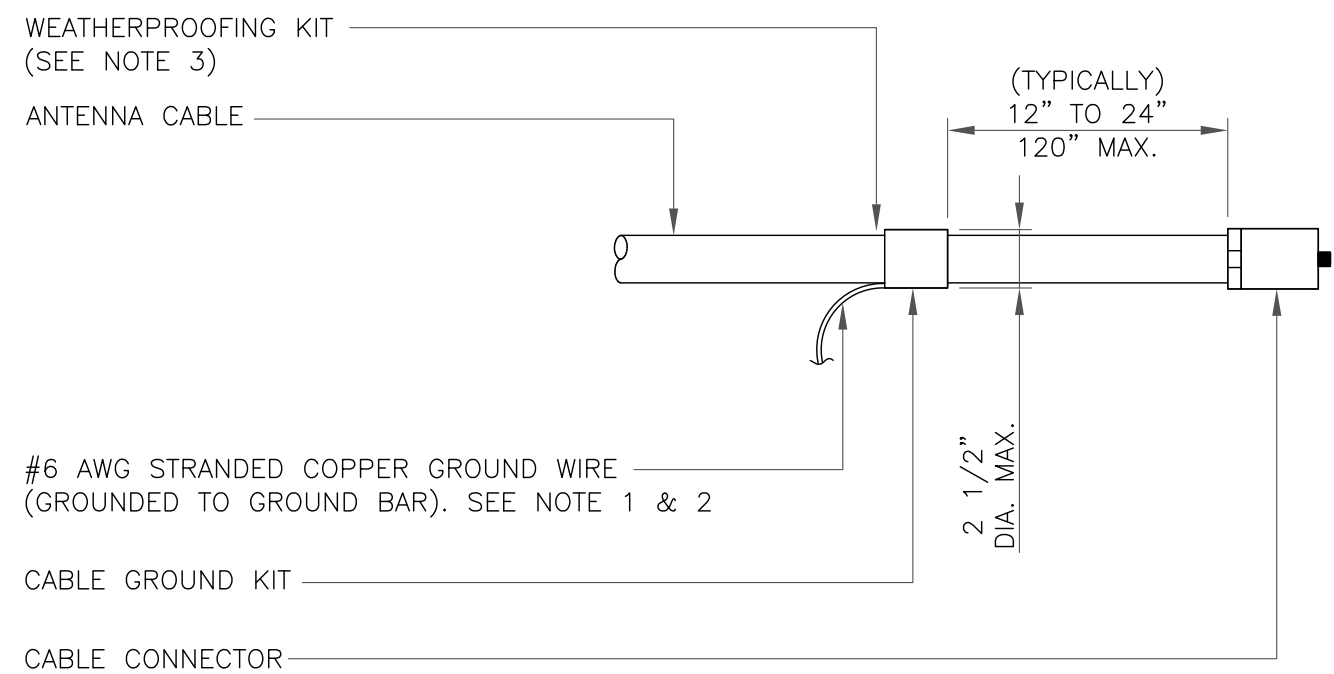




NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

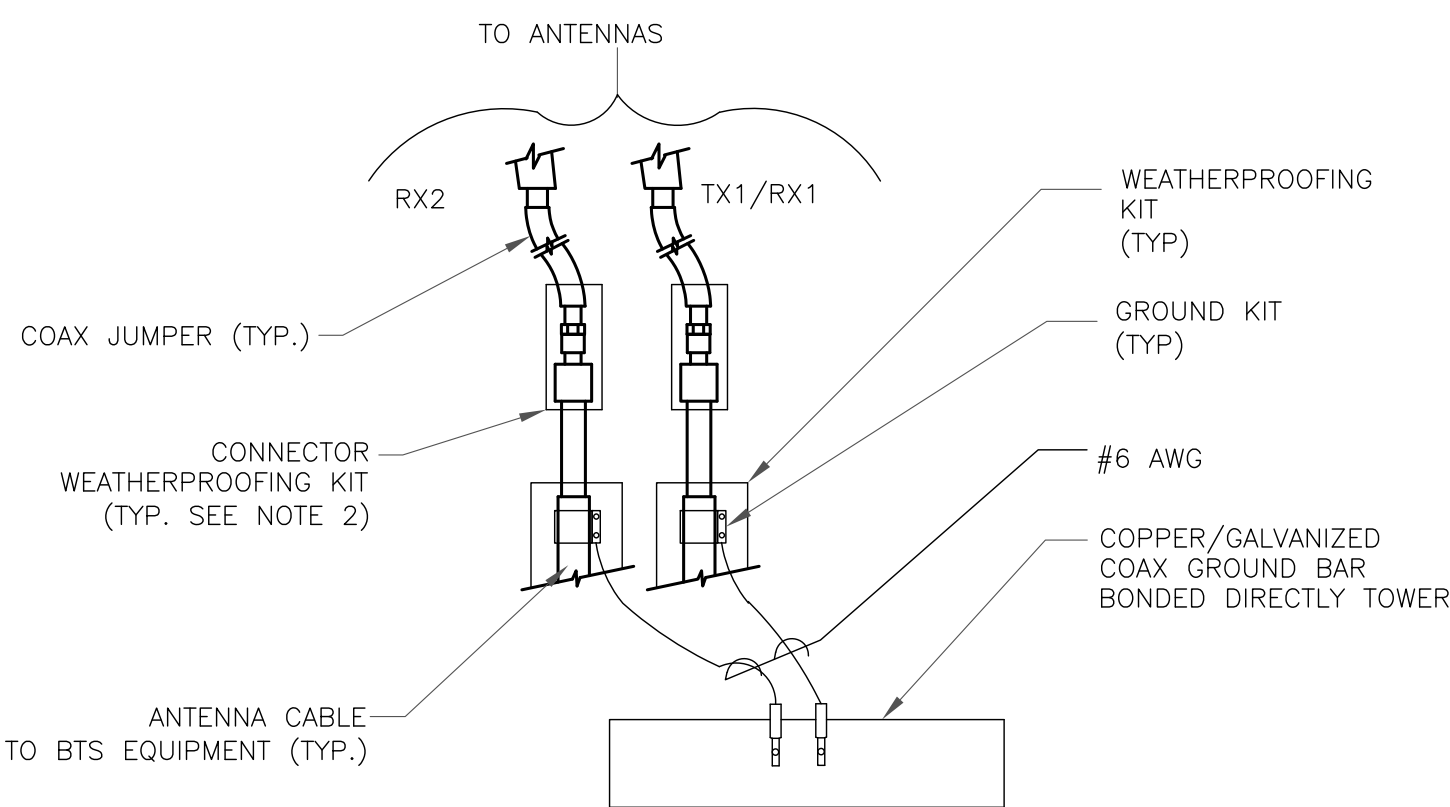
1 CADWELD GROUNDING CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

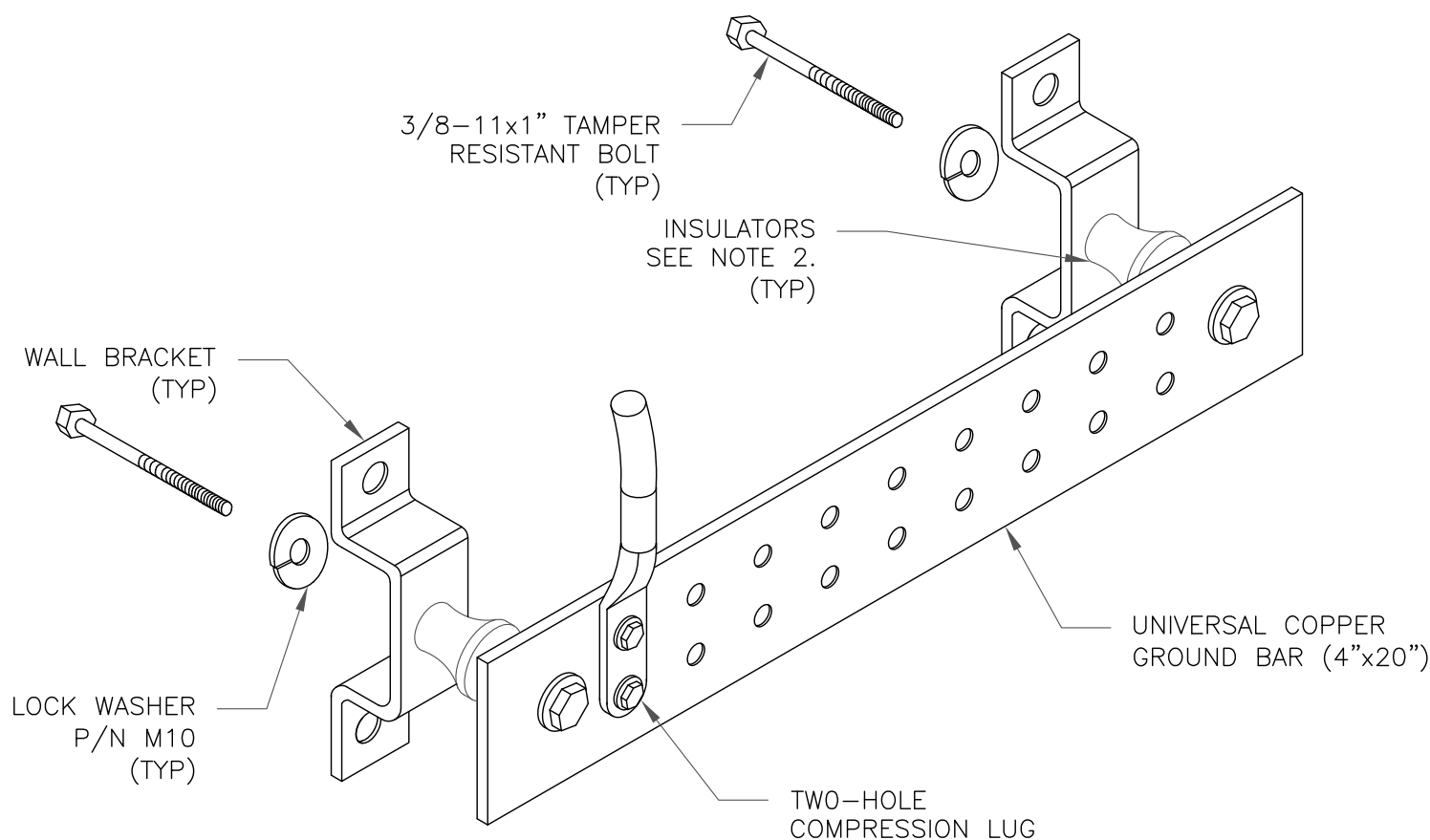
3 CABLE GROUND KIT CONNECTION  
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

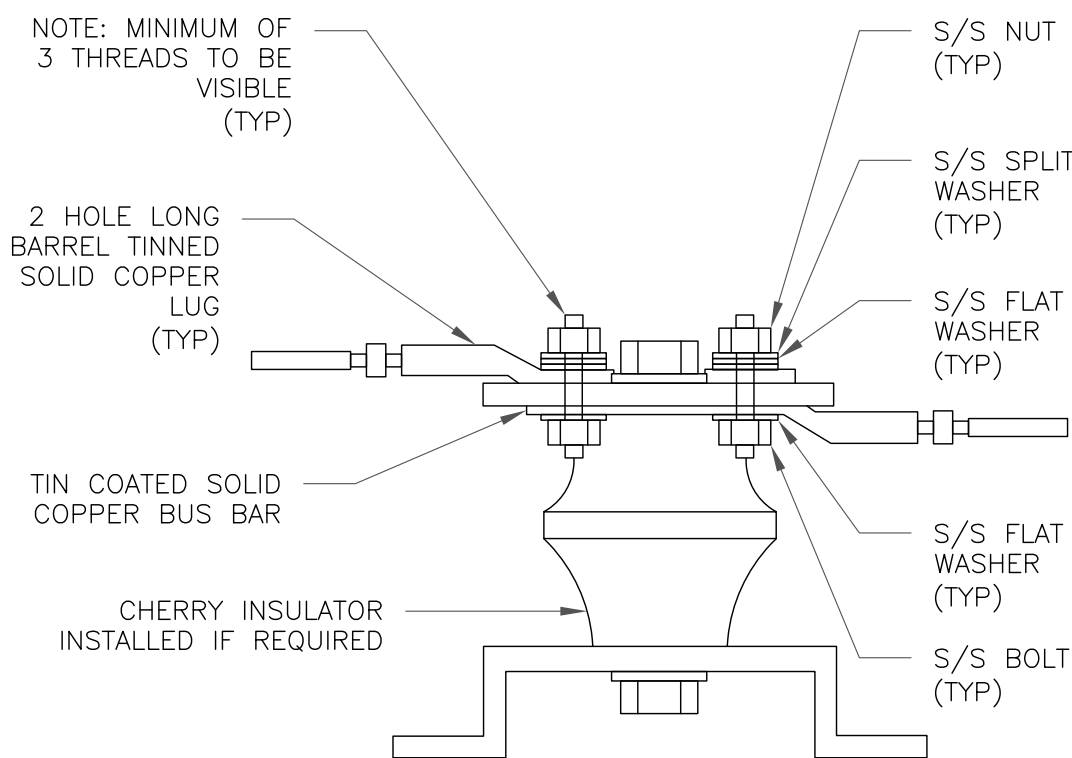
4 GROUND CABLE CONNECTION  
SCALE: NOT TO SCALE



NOTES:

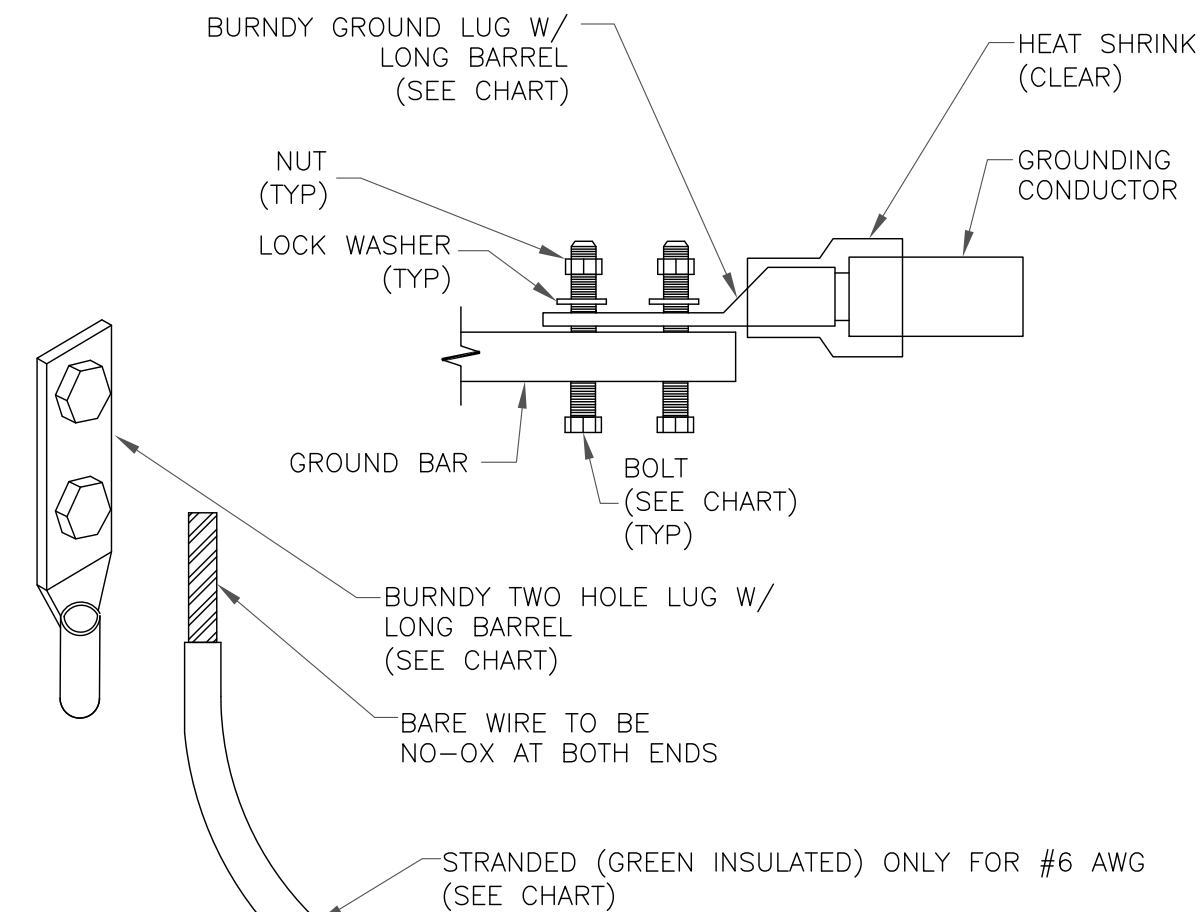
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL  
SCALE: NOT TO SCALE



7 LUG DETAIL  
SCALE: NOT TO SCALE

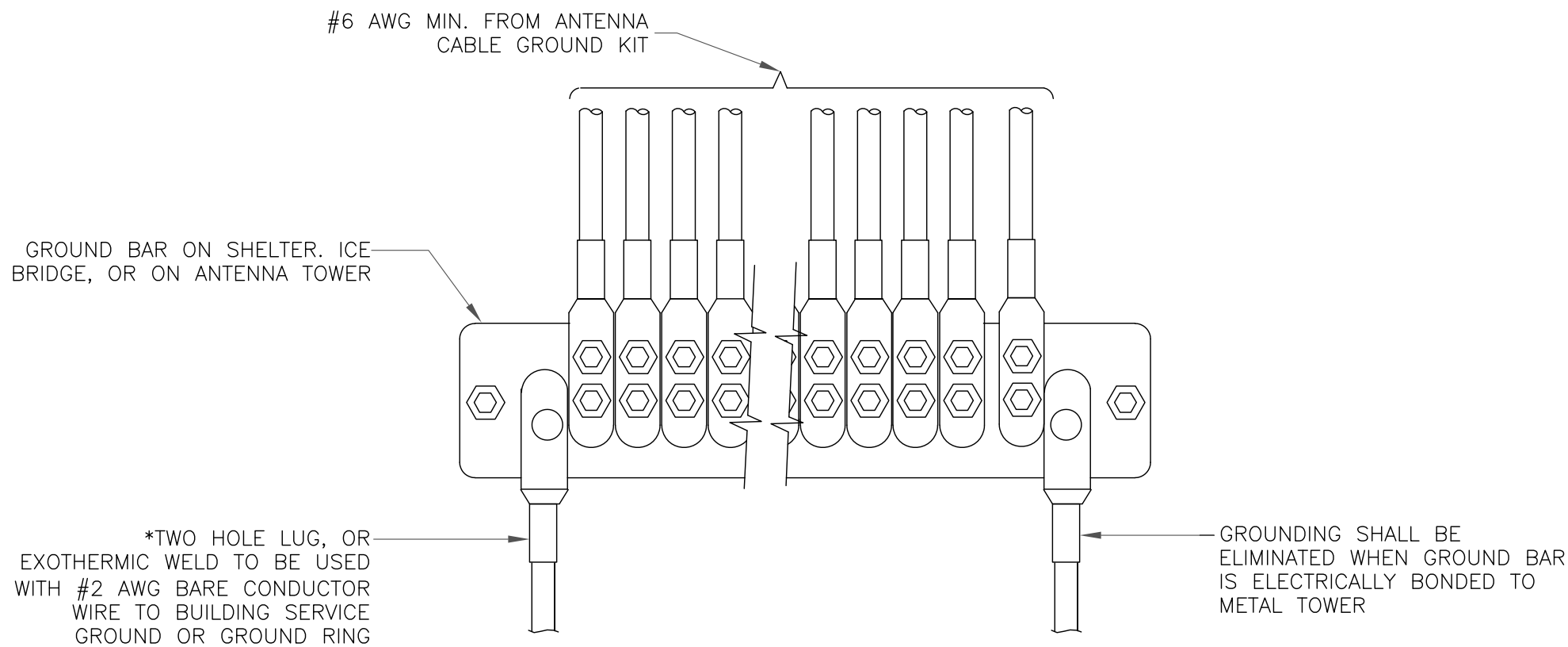
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



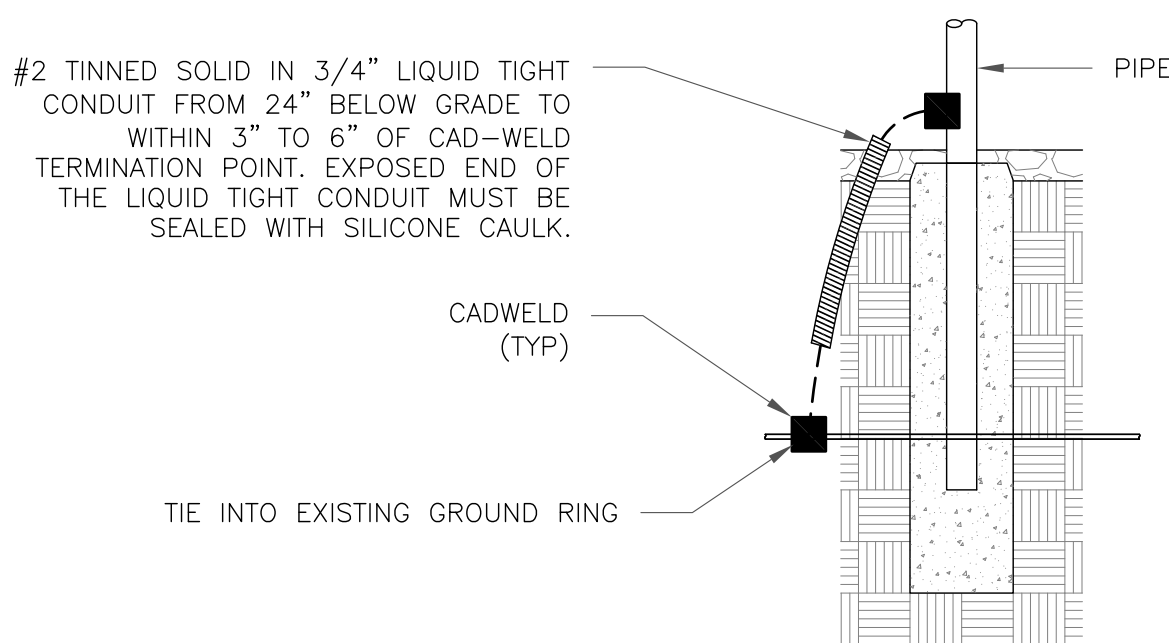
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION  
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION  
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL  
SCALE: NOT TO SCALE

T-Mobile

4 SYLVAN WAY  
PARSIPPANY, NJ 07054

CROWN  
CASTLE

3530 TORINGDON WAY, SUITE 300  
CHARLOTTE, NC 28277

B+T GRP

1717 S. BOULDER  
SUITE 300  
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T-MOBILE SITE NUMBER:  
CTNH211B

BU #: 845455  
OXFORD-QUAKER FARMS

85 QUAKER FARMS ROAD  
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B&T ENGINEERING, INC.  
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OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

G-3

REVISION:

2

# Exhibit F



4545 E River Rd, Suite 320  
West Henrietta, NY 14586

Phone: (585) 445-5896  
www.crowncastle.com

Name  
Address  
City State Zip

Re: **Motion to Reopen and Modify Condition No. 1 of Docket No. 261 Decision and Order to Attach Antennas to the Existing Monopole**

Dear Sir or Madam:

On behalf of T-Mobile, Crown Castle has submitted a Motion to Reopen and Modify Condition No. 1 of the Connecticut Siting Council Docket No. 261 Decision and Order ("D&O") for a telecommunications facility at 85 Quaker Farms Road in Oxford. T-Mobile's Motion seeks to eliminate the D&O condition requiring antennas be attached to the tower via flush mount configuration so as to allow T-Mobile to utilize platform mount design systems.

This modification will promote tower sharing, support new state-of-the-art technology and equipment on the tower, allow for safe and cost-efficient maintenance of antennas and equipment, and will create minimal visual change to the area. A copy of the motion is attached for your review.

This notice is being sent to you because you are listed on the Town Assessor's records as an owner of land that abuts the property.

Please do not hesitate to contact me with any questions or concerns regarding this matter.

Regards,

*Richard Zajac*

Richard Zajac  
Site Acquisition Specialist  
Crown Castle  
Agent for Applicant  
(585) 445-5896  
Richard.Zajac@crowncastle.com



Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A1

Account Z9105150

## Property Information

Owner	MUCCIACCIARO MICHAEL & MAIKA
Address	1 JENSEN FARM RD
Mailing Address	1 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	1.66
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	406300	284400
Outbuildings	0	0
Improvements	406300	284400
Extras	0	0
Land	147000	102900
Total	553300	387300
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Hip
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Gas
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	11/17/2003
Sale Price	539900
Book/ Page	273/ 436



Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A2

Account Z9105160

## Property Information

Owner	BURNS JR RICHARD J & DIANA
Address	3 JENSEN FARM RD
Mailing Address	3 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	1.78
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	400800	280600
Outbuildings	19800	13900
Improvements	420600	294500
Extras	0	0
Land	147900	103500
Total	568500	398000
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	Carpet

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	5/1/2017
Sale Price	527000
Book/ Page	415/1137



Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A3

Account Z9105170

## Property Information

Owner	GUERRIERO RICHARD
Address	5 JENSEN FARM RD
Mailing Address	5 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	1.95
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	353800	247700
Outbuildings	23700	16600
Improvements	377500	264300
Extras	0	0
Land	149300	104500
Total	526800	368800
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	Carpet

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	10/18/2019
Sale Price	550000
Book/ Page	433/ 48





Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A4

Account Z9105180

## Property Information

Owner	DENIGRIS MICHAEL F & MELISSA
Address	7 JENSEN FARM RD
Mailing Address	7 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	1.54
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	330300	231200
Outbuildings	11900	8300
Improvements	342200	239500
Extras	0	0
Land	146000	102200
Total	488200	341700
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	Carpet

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	4/17/2004
Sale Price	501500
Book/ Page	281/1162



Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A5

Account Z9105190

## Property Information

Owner	LYONS CHRISTOPHER R & KAREN A
Address	9 JENSEN FARM RD
Mailing Address	9 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	1.55
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	361900	253300
Outbuildings	11200	7900
Improvements	373100	261200
Extras	0	0
Land	146100	102300
Total	519200	363500
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Hip
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	Carpet

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	4/12/2004
Sale Price	550000
Book/ Page	279/ 940



Town of Oxford  
Property Listing Report

Parcel ID 23/57/8 A28

Account Z9106740

## Property Information

Owner	LIZAK DAVID A & HULFORD JAQUELYN
Address	13 JENSEN FARM RD
Mailing Address	13 JENSEN FARM RD OXFORD , CT 06478
Land Use	- Res Dwelling
Land Class	R

Census Tract	L 6
Neighborhood	120
Zoning	RESA
Acreage	2.5
Utilities	
Lot Setting/ Desc	/ Clear

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	337700	236400
Outbuildings	1900	1300
Improvements	339600	237700
Extras	0	0
Land	146400	102500
Total	486000	340200
Previous		

## Construction Details

Year Built	
Stories	2.00
Building Style	Colonial
Building Use	Residential
Building Condition	B
Total Rooms	
Bedrooms	4 Bedrooms
Full Bathrooms	0
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Arch Shingles

### EXTERIOR WALLS:

Primary	Vinyl Siding
Secondary	

### INTERIOR WALLS:

Primary	Drywall
Secondary	

### FLOORS:

Primary	Hardwood
Secondary	Carpet

### HEATING/AC:

Heating Type	Hydro-air
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	2/6/2006
Sale Price	630151
Book/ Page	310/ 941



Town of Oxford  
Property Listing Report

Parcel ID 23/57/9

Account A0014700

## Property Information

Owner	OXFORD TOWN OF
Address	61 QUAKER FARMS RD
Mailing Address	486 OXFORD RD OXFORD , CT 06478
Land Use	- Exempt Comm/Res
Land Class	E

Census Tract	L 5
Neighborhood	C04
Zoning	RESA
Acreage	67.46
Utilities	
Lot Setting/ Desc	/

## Photo



## PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	25924700	18147300
Outbuildings	376600	263700
Improvements	26555600	18589100
Extras	254300	178100
Land	2399700	1679800
Total	28955300	20268900
Previous		

## Construction Details

Year Built	
Stories	3
Building Style	School
Building Use	Comm/Ind
Building Condition	Good +20
Total Rooms	
Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	n/a
Kitchen Style	n/a
Roof Style	Flat
Roof Cover	Tar & Gravel

### EXTERIOR WALLS:

Primary	Brick Veneer
Secondary	Pre-finish Metl

### INTERIOR WALLS:

Primary	Drywall/Sheet
Secondary	Minim/Masonry

### FLOORS:

Primary	Vinyl/Asphalt
Secondary	

### HEATING/AC:

Heating Type	Forced Air-Duc
Heating Fuel	Oil
AC Type	Central

### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

### SALES HISTORY:

Sale Date	12/3/1998
Sale Price	0
Book/ Page	206/ 810

ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340

WEBSTER, NY 14580  
UNITED STATES US

BILL SENDER

TO **MICHAEL & MAIKA MUCCIACCIARO**

**1 JENSEN FARM ROAD**

**OXFORD CT 06478**

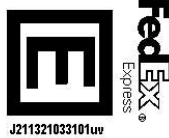
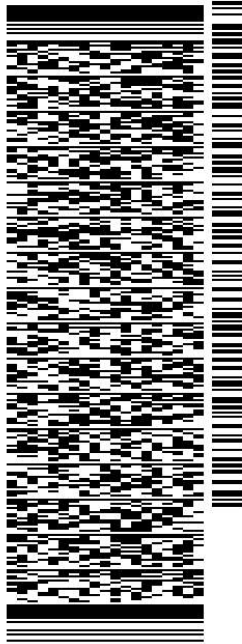
(585) 445-5896

REF: 799001 7680

INV/  
PO:

DEPT:

56DJ3/F9A6/FE4A

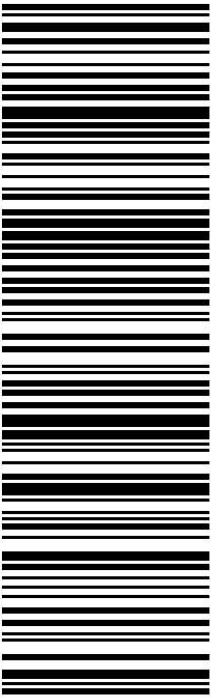


J211321033101uv

TRK# 7735 9869 2704  
0201

MON - 03 MAY 4:30P  
STANDARD OVERNIGHT

**XE HFDA**  
06478  
CT-US BDL



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**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

WEBSTER, NY 14580  
UNITED STATES US

TO **RICHARD & DIANA BURNS**

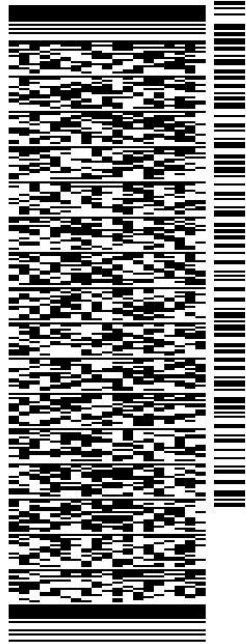
SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340  
BILL SENDER

**3 JENSEN FARM ROAD**

**OXFORD CT 06478**

(585) 445-5896 REF: 799001 7680  
INV/ PO: DEPT:

56DJ3/F9A6/FE4A

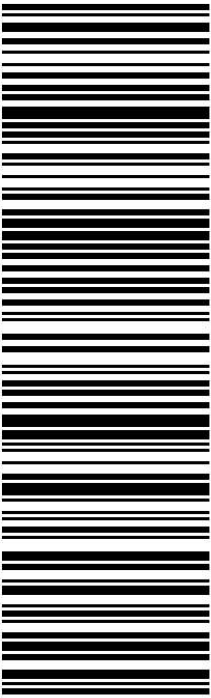


J211321033101uv

TRK# 7735 9871 5856  
0201

MON - 03 MAY 4:30P  
STANDARD OVERNIGHT

**XE HFDA** 06478  
CT-US BDL



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ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

WEBSTER, NY 14580  
UNITED STATES US

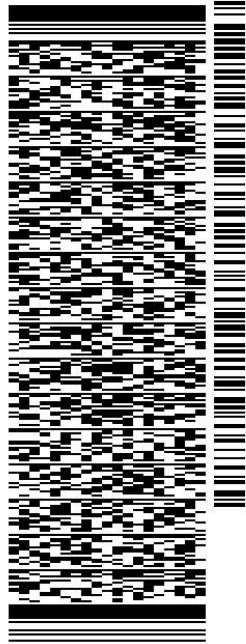
TO **RICHARD GUERRIERO**

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340  
BILL SENDER

**5 JENSEN FARM ROAD**

**OXFORD CT 06478**

(585) 445-5896 REF: 799001 7680  
INV/ PO: DEPT:

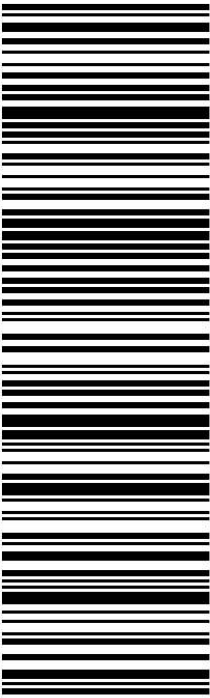


J211321033101uv

56DJ3/F9A6/FE4A

TRK# **7735 9873 5983** MON - 03 MAY 4:30P  
0201 STANDARD OVERNIGHT

**XE HFDA** 06478  
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ORIGIN ID: ONHA (585) 445-5896  
RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340

WEBSTER, NY 14580  
UNITED STATES US

BILL SENDER

TO **MICHAEL & MELISSA DENIGRIS**

**7 JENSEN FARM ROAD**

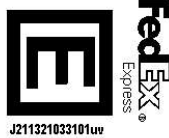
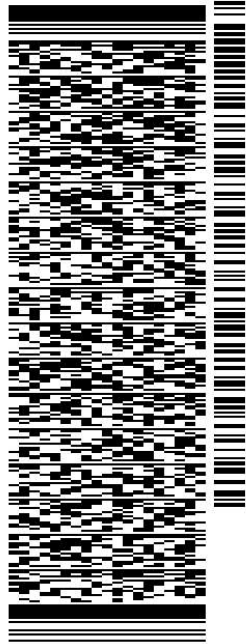
**OXFORD CT 06478**

REF: 799001 7690

(585) 445-5896  
INV/  
PO:

DEPT:

56DJ3/F9A6/FE4A

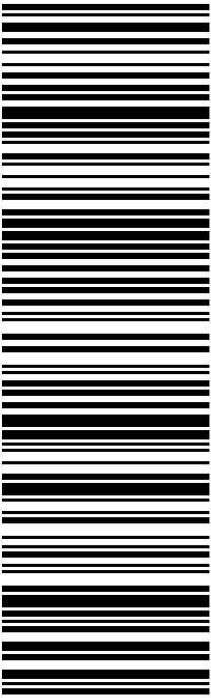


J211321033101uv

TRK# 7735 9875 7690  
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RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

WEBSTER, NY 14580  
UNITED STATES US

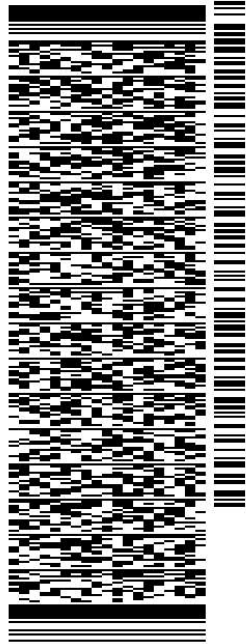
TO **CHRISTOPHER & KAREN LYONS**

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340  
BILL SENDER

**9 JENSEN FARM ROAD**

**OXFORD CT 06478**

(585) 445-5896 REF: 799001 7680  
INV/ DEPT:  
PO:



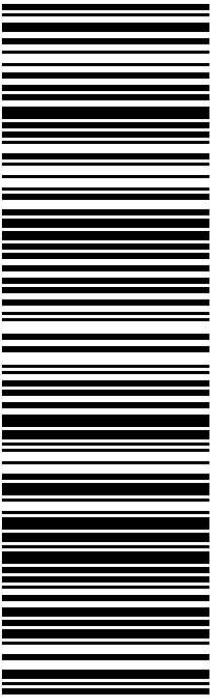
J211321033101uv

56DJ3/F9A6/FE4A

TRK# 7735 9877 9114  
0201

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RICHARD ZAJAC  
CROWN CASTLE  
629 KAYLEIGH DR

SHIP DATE: 30APR21  
ACTWGT: 1.00 LB  
CAD: 112911364/NET4340

WEBSTER, NY 14580  
UNITED STATES US

BILL SENDER

TO **DAVID LIZAK & JAQUELYN HULFORD**

**13 JENSEN FARM ROAD**

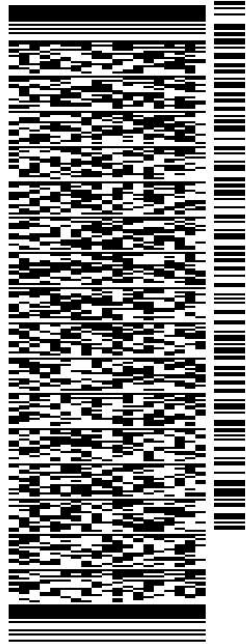
**OXFORD CT 06478**

REF: 799001 7680

(585) 445-5896  
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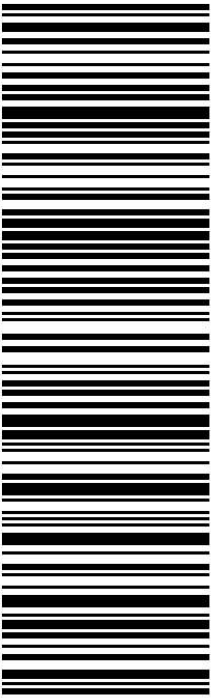


J211321033101uv

TRK# 7735 9880 3785  
0201

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06478  
CT-US BDL



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