

THIRD AMENDMENT TO WATER TOWER LEASE AGREEMENT

This Third Amendment to Water Tower Lease Agreement ("**Third Amendment**"), dated as of the latter of the signature dates below, is between the City of West Allis, having a mailing address of West Allis City Hall, 7525 West Greenfield Avenue, West Allis, WI 53214 ("**Owner**"), and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd. NE, Atlanta, GA 30319 ("**Tenant**"). Owner and Tenant are collectively referred to as "**Parties**" and individually as "**Party**."

RECITALS

- A. The Parties, and/or their predecessors in interest, entered into a Water Tower Lease Agreement dated October 19, 1998, as amended by an Estoppel and Consent Certificate and Lease Amendment dated June 22, 2000, and as further amended by a Second Amendment to Water Tower Lease Agreement dated October 6, 2016 (collectively, "**Lease**").
- B. Owner owns property located at 11515 West Rogers Street, West Allis, WI 53227, as legally described on Attachment A-1 to this Third Amendment, ("**Property**") on which Owner maintains a water tower ("**Tower**"). Pursuant to the Lease, Owner leases to Tenant a portion of the Property that is comprised of certain land space on the Property, as legally described on Attachment A-1 and Exhibit 1 to First Amendment to Memorandum of Lease, recorded with the Milwaukee County Register of Deeds on November 1, 2016 as Document No. 10618686, and certain locations on the Tower on which Tenant maintains certain Antenna Facilities ("**Premises**").
- C. As used in this Third Amendment, "**Antenna Facilities**" includes Tenant's existing equipment cabinet and any and all facilities Tenant has or will install on the Property.
- D. The Parties desire to amend the Lease to permit Tenant to undertake an "**Upgrade Project**" to modify its Antenna Facilities on the Premises, including the Tower, subject to the terms of this Third Amendment.
- E. The Parties also desire to amend the Lease to update the site survey to reflect a change in the access easement area and to identify certain utility easements that were previously not identified or recorded.

AGREEMENT

The Parties agree to amend the Lease as follows:

1. Grant of Easement Rights/Release of Prior Easement.

- a. Access Easement. Subject to the provisions of the Lease and throughout its Term, Owner hereby grants to Tenant the right to access the Property via the access easement that is depicted on the site survey in Attachment A-2 and legally described on Attachment A-1.
- b. Utility Easements. Subject to the provisions of the Lease and throughout its Term, Owner hereby grants to Tenant a four-foot wide non-exclusive utility easement for the underground installation and maintenance of utility wires, cables, conduits, and pipes in the location depicted on the site survey in Attachment A-2 and legally described on Attachment A-1.
- c. Release of Easement. On Exhibit 1 to First Amendment to Memorandum of Lease, there is legally described a twenty-foot wide utility and ingress/egress easement. That easement may no longer be used and is hereby released by Owner and Tenant. This released easement is depicted on the site survey in Attachment A-2 and is labeled "(to be released)."

2. Upgrade Project.

- a. Lighting Plan.
 - i. Tenant's Upgrade Project shall include a plan for remediation of the violations of Federal Aviation Administration ("FAA") rules regarding tower lighting, which violations resulted from Tenant's prior work on the Tower. Tenant shall be solely responsible for the cost of implementing the lightening plan, once approved by Owner.
 - ii. Effective upon installation, all such tower lighting equipment shall be owned by Owner, and Owner assumes full responsibility for the operation and maintenance of the Tower in compliance with all federal, state and local laws and regulations applicable to the Tower and the Property. Nothing contained herein shall obligate Tenant to maintain Owner's Tower lighting or alarm system and Owner acknowledges that it, and not Tenant, shall be solely liable and responsible for compliance with all such Tower marking and lighting requirements. Owner's failure to comply with the foregoing obligations of this Section shall be a material default for which Tenant may terminate this Agreement immediately upon written notice to Landlord.
- b. New Railing.
 - i. Tenant's Upgrade Project shall include the design and installation of a new railing on the Tower. Tenant shall be solely responsible for the cost of designing and installing the railing, once approved by Owner, except that, because Owner will be reconditioning the Tower, Owner shall be responsible for the cost of painting inside the Tower. Effective upon installation, the railing shall be owned by Owner and considered part of

the Tower.

- ii. Once installed, Tenant may use up to 50 percent of the linear space on the railing, provided that such use does not exceed 50 percent of the railing's loading capacity.
- c. Governmental Approvals. Tenant shall not begin installation of the Upgrade Project without first obtaining all necessary federal, state, and local governmental approvals and permits for such work.
- d. Required Submissions. Prior to commencing construction of the Upgrade Project, Tenant shall submit all of the following to Owner:
 - i. *Application.* An Antenna Site Application ("**Application**") on a form supplied by Owner. The complete and executed Application is attached as **Attachment B-1** to this Third Amendment.
 - ii. *Deposit.* The required deposit, as set forth in the Application.
 - iii. *Construction Drawings.* Detailed construction plans and drawings ("**CDs**") for all improvements for Owner's written approval, which approval must be obtained before Tenant may commence any construction or installation work on the Property. If Owner disapproves the CDs, Tenant may provide Owner with revised plans for Owner's review. Owner's approval of the CDs shall not be unreasonably withheld, conditioned, or delayed.
 - iv. *Updated Site Survey.* Tenant shall provide an updated site survey, which shall be attachment as **Attachment A-2** once it is approved by Owner.
 - v. *Engineering Study/Structural Analysis.* An engineering study and structural analysis to determine whether the proposed installation of the Upgrade Project will adversely affect the structural integrity of the Tower.
- 3. Additional Rent. Tenant shall not be required to pay additional rent for the Upgrade Project provided that Tenant abides by Section 2(b)(ii) of this Third Amendment, which provides that AT&T may use up to 50% of the linear space on the railing provided that the use does not exceed 50% of the railing's loading capacity.
- 4. Future Modifications.
 - a. Once the Upgrade Project is completed, Tenant shall not seek to add any additional Antenna Facilities or otherwise modify its then-existing Antenna Facilities or make any other additions, alterations, or improvements to the Property ("**Modification Project**") without Owner's prior written approval, which approval shall not be unreasonably withheld, conditioned, or delayed, provided that any Modification Project which increases the number or size of the Antenna Facilities

on the Tower may be subject to an increase in rent and shall not be installed until the Parties have mutually agreed on the amount of the increase.

- b. Prior to commencing construction of a Modification Project, Tenant shall submit to Owner all of the same information required under Section 2.d of this Third Amendment for the Upgrade Project. Such information shall be attached to this Third Amendment and appropriately numbered (e.g., the Site Application for the first Modification Project, if any, shall be attached as **Attachment B-2**).

5. **Additional Project Requirements.**

- a. **Installation to Conform to CDs.** Tenant's installation of the Upgrade Project or a future Modification Project (collectively, "**Projects**" and each, a "**Project**") shall be made at Tenant's sole expense and completed in a neat and workmanlike manner in accordance with sound engineering practices; applicable rules, regulations, and laws; and in strict compliance with the approved CDs. Once approved by Owner, the CDs for the Upgrade Project shall be attached as **Attachment C-1**. Approved CDs for a subsequent Project, if any, shall be attached as **Attachment C-2**.
- b. **As-Built Drawings.** Within (30) days after installation of a Project, Tenant shall provide to Owner electronically formatted as-built drawings ("**As-Built**s") documenting the Antenna Facilities installed on the Property. The As-Built's shall show the actual location of all Tenant's Antenna Facilities and shall be accompanied by a complete and detailed inventory of all the existing and newly installed Antenna Facilities. The As-Built's for the Upgrade Project shall be attached as **Attachment D-1**. As-Built's for a subsequent Project, if any, shall be attached as **Attachment D-2**.

6. **Repair/Replacement Notice.**

- a. With the exception of emergencies, Tenant shall submit to Owner advance written notice of the need for and the nature of any repair of Tenant's existing Antenna Facilities or the replacement of such facilities on a like-for-like basis, using the Antenna Site Service Notice form attached as **Attachment E** ("**Service Notice**") For the sake of clarity, "**like-for-like basis**" means that the existing Antenna Facilities are replaced with Antenna Facilities that are no greater in size (i.e., the dimensions are the same or smaller), weight, or number and that the new Antenna Facilities are attached in the same manner as Tenant's then-existing Antenna Facilities.
- b. If Owner objects to the Service Notice, Owner shall notify Tenant in writing, within two (2) business days from its receipt of the Service Notice. Owner's notice to Tenant shall specify in detail the objection and whether Tenant is authorized to proceed with the repair or replacement. Tenant may resubmit a revised Service Notice as often as necessary until approved by Owner.

- c. In the case of an emergency, Tenant shall provide written notice to Owner describing the replacement or repair, as well an explanation of the reason the repair or replacement constituted an emergency and did not require prior written notice to Owner, with the written notice being transmitted by Tenant to Owner within twenty-four (24) hours following the emergency replacement or repair. As used in this Third Amendment, "**emergency**" shall be deemed to exist only in instances in which the emergency conditions constitute an immediate threat to the health or safety of the public, an immediate danger to the operation of Tenant's communications services, or immediate danger to the Tower and its operations.
7. Review/Inspection. As directed by Owner, Owner's technical consultants shall review and periodically inspect Tenant's Project beginning with the pre-construction conference and continuing through installation, construction, punch-list review, and verification of the post-construction As-Builts.
8. Notices. Section 13 of the Lease is hereby deleted in its entirety and replaced with the following:

Notices. All notices, requests, and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows.

If to Tenant: New Cingular Wireless PCS, LLC
Attn: Network Real Estate Administration
Re: Cell Site #: WI1018; Cell Site Name: West Allis Water Tank (WI)
FA No: 10080397
1025 Lenox Park Blvd. NE
Atlanta, GA 30319

With copy to: New Cingular Wireless PCS, LLC
Attn: AT&T Legal Department
Re: Cell Site #: WI1018; Cell Site Name: West Allis Water Tank (WI)
FA No: 10080397
208 S. Akard Street
Dallas, TX 75202-4206

The copy sent to the Legal Department is an administrative step, which alone does not constitute legal notice.

If to Owner: City of West Allis
Attn: City Attorney
City Hall
7525 West Greenfield Avenue
Room 232
West Allis, WI 53214

With a Copy to: City of West Allis
Attn: Public Works Director
City Hall
6300 W. McGeoch Avenue
Room 232
West Allis, WI 53219

Either party hereto may change the place for the giving of notice to it by thirty (30) days prior written notice to the other as provided herein.

9. Responsibility for Professional Costs.

- a. Tenant shall reimburse Owner for all commercially reasonable third-party professional costs that Owner incurs associated with a Project. Such costs shall include payments Owner makes to Owner's technical consultants for their work associated with a Project as well as payments made to outside legal counsel for their work associated with the Project (collectively, "**Professional Costs**").
- b. In the event that Owner determines that the Professional Costs may exceed the amount of the deposit required in the Application, Owner shall endeavor, within ten (10) business days of making that determination, to notify Tenant in writing (email notice is sufficient) of the amount any expenses in excess of the deposit ("**Additional Professional Costs**"). Owner will invoice Tenant for the Additional Professional Costs, which invoice shall be due and payable within thirty (30) days of its receipt. Owner's failure to provide notice within the ten (10)-business day timeframe will not relieve Tenant of its obligation to pay the Additional Professional Costs to Owner. Owner shall also provide Tenant with an estimate of any "**Future Professional Costs**" to the extent such costs can be estimated.
- c. Owner will provide Tenant, within thirty (30) days of Project Completion, a detailed final invoice for any unpaid Additional Professional Costs and for any Future Professional Costs, and Tenant shall pay such invoice within thirty (30) days of its receipt. Owner shall refund to Tenant any pre-payment amounts Tenant has paid to Owner for Professional Costs to the extent such pre-payment amounts exceed such costs. "**Project Completion**" means the point at which Owner has completed all post-construction inspection, Tenant has completed any and all remedial work to Owner's satisfaction, and Owner has approved in writing Tenant's post-construction As-Builts.
- d. Once the deposit required in the Application is exhausted, this First Amendment supersedes and replaces Tenant's obligation to pay Owner's Costs as provided for in the Application.

10. Work Performed by Owner. Any work performed or service provided by Owner under

the Lease, the cost of which is Tenant's responsibility, shall be charged out at Owner's annually adopted fully loaded labor rate ("**Labor Rate**") and transportation rate ("**Transportation Rate**"), which rates shall include a charge for administrative and general costs. Owner will invoice Tenant for such costs, which invoice shall be due and payable within thirty (30) days of its receipt. Upon Tenant's request, Owner will provide Tenant with documentation of Owner's Labor Rate and Transportation Rate.

11. Tower Maintenance and Repair.

- a. Antenna Facilities Remain in Place. The following process shall be followed when the Tower is to be painted and/or reconditioned and Owner, in its sole discretion, determines that it is reasonable to keep all or any portion of the Antenna Facilities in place while such work is performed.
 - i. Owner shall notify Tenant prior to the end of any calendar year during which Owner has planned and budgeted for Tower painting and/or reconditioning in the subsequent year, and shall further notify Tenant at least ninety (90) days in advance of the week when the work on the Tower is to be scheduled.
 - ii. Owner shall use the following method to determine the impact of the Antenna Facilities on the cost of painting the Tower:
 - (1) The painting contractor will bid on the cost of painting the Tower both with and without the Antenna Facilities. The contractor will then proceed to paint the Tower with the Antenna Facilities left in place.
 - (2) Tenant shall be responsible for the difference between the two (2) bids and shall pay any such invoice therefor within thirty (30) days of its receipt.
- b. Temporary Relocation of Antenna Facilities. When, in Owner's sole discretion, maintenance, repair, repainting, restoration, or other such activity with respect to the Tower requires the Antenna Facilities to be temporarily relocated, Owner shall give Tenant at least (6) months' prior written notice of the date such work has been scheduled. Within that six-month period, Tenant shall relocate its equipment on a temporary basis to another location on the Property. If Tenant requires the use of a cell tower on wheels ("**COW**"), Owner shall permit Tenant, at Tenant's sole expense, to place a COW on the Property in a location mutually agreed upon by Owner and Tenant. Tenant shall cooperate with Owner regarding the placement of the COW on the Property.
- c. Temporary Emergency Relocation. In case of an emergency that requires Owner to remove Tenant's Antenna Facilities, Owner may do so after giving advance telephone notice to Tenant as soon as practical by calling **(800) 298-3553**. In the event the use of Tenant's Antenna Facilities is interrupted, Tenant shall have the

right to maintain a COW temporarily on the Property in a location approved by Owner. If the Property will not accommodate a COW, it is Tenant's responsibility to locate alternative sites.

12. Access.

- a. Tenant shall have 24/7 unsupervised access to its Antenna Facilities located on the ground space portion of the Premises. Tenant may have supervised access to its Antenna Facilities on the Tower by requesting access forty-eight (48) hours in advance. For instances involving regular maintenance, Tenant shall request access to the Tower by calling **(414) 302-8827**. If Tenant needs access to the Tower in an emergency, it shall give advance notice to Owner as soon as reasonably possible by calling **(414) 302-8827**. Tenant shall reimburse Owner for all costs Owner incurs in sending its personnel to the Site and in supervising Tenant's Tower access.
- b. Tenant shall be subject to any and all emergency operation plans adopted by Owner applicable to the Tower. When accessing the Tower, Tenant's employees, contractors, and agents shall have proper identification. Tenant shall be responsible for maintaining a written record of the names of its employees, contractors, and agents who perform work on the Tower, the nature of the work performed, and the date and time such work is performed. Tenant shall make such records available to Owner upon request.

13. Other Provisions Unaffected. To the extent that any provision of this Third Amendment is inconsistent with any provision of the Lease, this Third Amendment shall control. Otherwise, all provisions of the Lease that are not affected by this Third Amendment shall remain in full force and effect.

14. Entire Agreement. This Third Amendment (including the recitals and all attachments to this Third Amendment, which are incorporated into and form part of this Third Amendment), together with the Lease, constitutes the entire understanding of the Parties with respect to the subject matter hereof and no other agreement, statement, or promise made by any Party or any employee, officer, or agent of any Party that is not contained in this Third Amendment or Lease shall be binding or valid.

[Signature Pages Follow]

CITY OF WEST ALLIS, WISCONSIN

By: _____

Print Name: _____

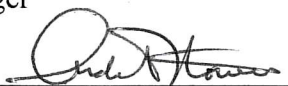
Title: _____

Date: _____

NEW CINGULAR WIRELESS PCS, LLC

By: AT&T Mobility Corporation

Its: Manager

Name: 

Print Name: Andrew T. Flowers

Title: Sr Real Estate & Construction Manager

Date: 5/24/2021

ATTACHMENT A-1

LEGAL DESCRIPTIONS

PROPERTY

Parcel Two (2) of Certified Survey Map No. 5306, being a part of the Southeast One-Quarter (1/4) of Section Six (6), in Township Six (6) North, Range Twenty-One (21) East, in the City of West Allis, County of Milwaukee, State of Wisconsin, and recorded in the Office of the Register of Deeds of Milwaukee County on August 8, 1989 in Reel 2356, Image 1456 to 1459, inclusive, as Document No. 6300590.

PIN: 481-9993-028

PREMISES

A part of Parcel 2 of Certified Survey Map (C.S.M.) No. 5306 of Milwaukee County Records, being a part of the Southeast Quarter (SE 1/4) of Section Six (6), Township Six (6) North, Range Twenty-One (21) East, City of West Allis, Milwaukee County, Wisconsin containing 575 square feet (0.013 acres) of land and being described by:

Commencing at the Center of said Section 6; thence S01°-03'-039"E (Recorded as S00°-15'-05"E) 773.91 feet along the West line of the SE 1/4 of said Section 6 and also being the East line of South 116th Street; thence Southerly 69.37 feet along said East line and the arc of a curve to the left, having a radius of 1952.00 feet, and a chord of which bears S02°-04'-39"E (Recorded as N01°-16'-10"W) 69.36 feet to the Southwest Corner of said C.S.M. No. 5306; thence 89°-22'-01"E (N89°-49'-30"W) 195.09 feet; thence N00°-37'-59"W 65.81 feet to the point of beginning; thence S89°-22'-01"W 25.00 feet; thence N00°-37'-59"W 23.00 feet; thence N89°-22'-01"E 25.00 feet; thence S00°-37'-59"E 23.00 feet to the point of beginning; being subject to any and all easements and restrictions of record.

TWENTY-FOOT WIDE ACCESS EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN PARCEL TWO (2) OF CERTIFIED SURVEY MAP (C.S.M.) NUMBER 5306, BEING A PART OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION SIX (6), TOWNSHIP SIX (6) NORTH, RANGE TWENTY-ONE (21) EAST, CITY OF WEST ALLIS, MILWAUKEE COUNTY, WISCONSIN AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND BRASS CAP IN CONCRETE LOCATING THE SOUTH QUARTER CORNER OF SAID SECTION 6; THENCE N0° 22' 22"E, 2026.52 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 6 TO A FOUND 1" IRON PIPE LOCATING THE NORTHWEST CORNER OF PARCEL ONE OF C.S.M. NUMBER 5306; THENCE S89° 16' 24"E, 100.20 FEET ALONG THE NORTH LINE OF SAID PARCEL ONE

TO A FOUND 1" IRON PIPE LOCATING THE NORTHWEST CORNER OF PARCEL 2; THENCE S89° 13' 45"E, 22.83 FEET ALONG THE NORTH LINE OF PARCEL 2 TO THE POINT OF BEGINNING; THENCE S0° 22' 31"W, 152.90 FEET; THENCE S10° 06' 12"E, 19.97 FEET; THENCE S29° 06' 49"E, 12.18 FEET; THENCE S46° 10' 32"E, 15.61 FEET; THENCE S64° 57' 11"E, 14.95 FEET; THENCE S82° 38' 27"E, 13.95 FEET; THENCE N90° 00' 00"E, 12.64 FEET; THENCE N0° 48' 02"E, 37.13 FEET TO THE SOUTH LINE OF THE EXISTING AT&T 25 FEET X 23 FEET LEASE PARCEL AND THE POINT OF TERMINATION. SAID AT&T ACCESS EASEMENT CENTERLINE CONTAINS 279.33 LINEAR FEET, MORE OR LESS, AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT NORTH LINE OF PARCEL 2 AND TERMINATE AT THE SOUTH LINE OF THE EXISTING AT&T 25 FEET X 23 FEET LEASE PARCEL.

FOUR-FOOT WIDE UTILITY EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN PARCEL TWO (2) OF CERTIFIED SURVEY MAP (C.S.M.) NUMBER 5306, BEING A PART OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION SIX (6), TOWNSHIP SIX (6) NORTH, RANGE TWENTY-ONE (21) EAST, CITY OF WEST ALLIS, MILWAUKEE COUNTY, WISCONSIN AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND BRASS CAP IN CONCRETE LOCATING THE SOUTH QUARTER CORNER OF SAID SECTION 6; THENCE N0° 22' 22"E, 2026.52 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 6 TO A FOUND 1" IRON PIPE LOCATING THE NORTHWEST CORNER OF PARCEL ONE OF C.S.M. NUMBER 5306; THENCE S89° 16' 24"E, 100.20 FEET ALONG THE NORTH LINE OF SAID PARCEL ONE TO A FOUND 1" IRON PIPE LOCATING THE NORTHWEST CORNER OF PARCEL 2; THENCE S89° 13' 45"E, 160.03 FEET TO A FOUND 1" IRON PIPE LOCATING THE NORTHEAST CORNER OF PARCEL 2; THENCE S0° 19' 39"W, 110.96 FEET ALONG THE EAST LINE OF PARCEL 2 TO THE POINT OF BEGINNING; THENCE S79° 11' 48"W, 46.19 FEET; THENCE S54° 21' 40"W, 25.15 FEET; THENCE S0° 48' 02"W, 6.07 FEET TO THE NORTH LINE OF THE EXISTING AT&T 25 FEET X 23 FEET LEASE PARCEL AND THE POINT OF TERMINATION. SAID AT&T UTILITY EASEMENT CENTERLINE CONTAINS 77.41 LINEAR FEET, MORE OR LESS, AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT EAST LINE OF PARCEL 2 AND TERMINATE AT THE NORTH LINE OF THE EXISTING AT&T 25 FEET X 23 FEET LEASE PARCEL.

ATTACHMENT A-2

SITE SURVEY



hereby certify that this Survey Document was prepared and the related Survey Work was performed by me or under my direct personal supervision and that I am a duly licensed Land Surveyor under the Laws of the State of Wisconsin.

Trent D. Nelson / PLS
License Number: 3132-8[illegible]

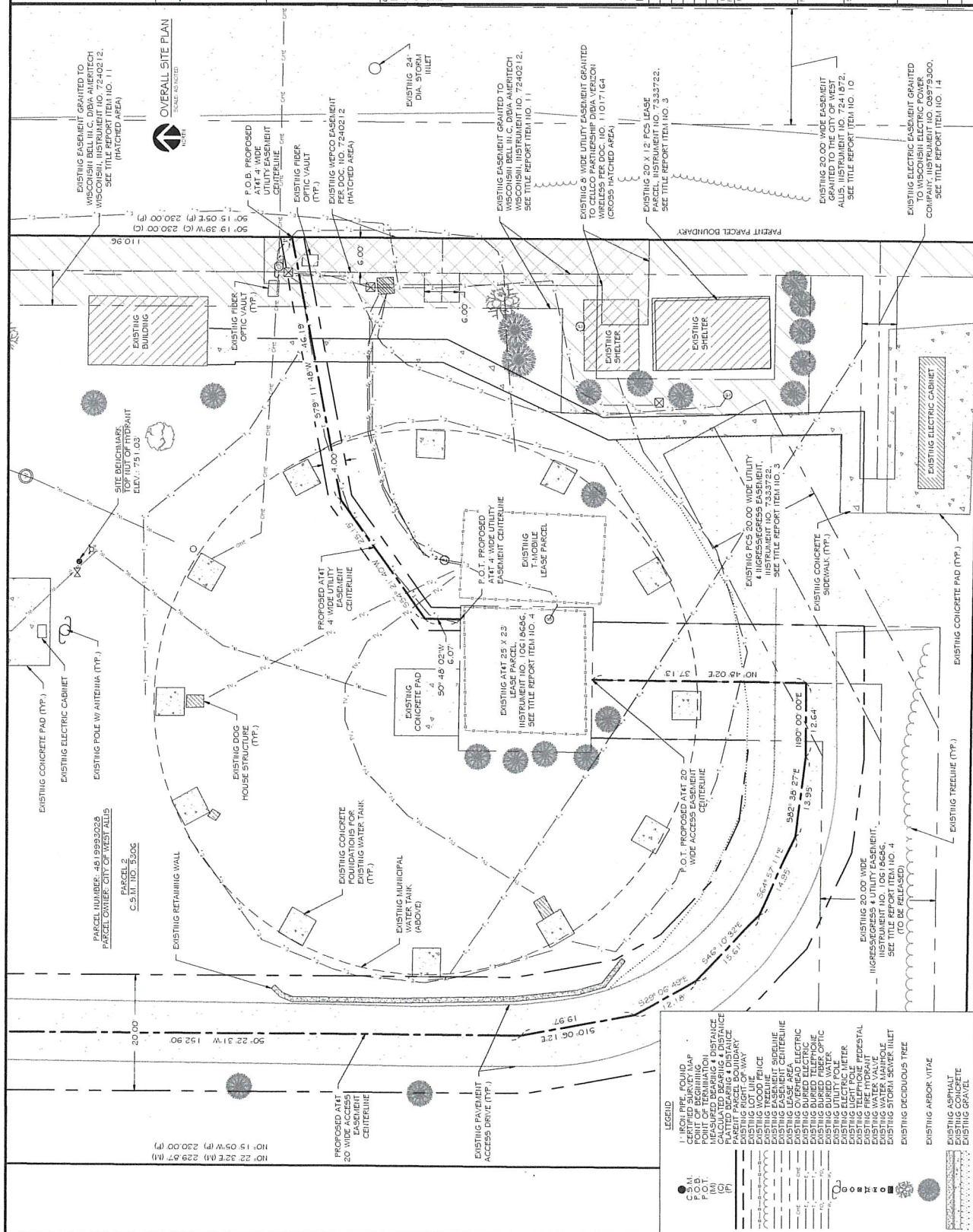
WEST ALLIS WATER
TOWER

PROJECT ADDRESS:
11515 WEST ROGERS ST.
WEST ALLIS, WI 53227
MILWAUKEE COUNTY

SITE SURVEY



PROJECT NUMBER	50114
SHEET NUMBER	2 OF 3



PREPARED BY: AMC SETTLEMENT SERVICES
LOAN NUMBER: SAC20037653
DOCUMENT DATE: 1/03/2020

1.-2.: (NON-SURVEY RELATED EXCEPTION.)

3. THE LOCATION OF THE LEASED PREMISES DESCRIBED IN THE MEMORANDUM OF FCS SITE AGREEMENT BETWEEN CITY OF WEST ALTON AND SPRINT SPECTRUM L.P. RECORDED AS INSTRUMENT NO. 73337222 SHOULD BE VERIFIED TO DETERMINE IF ITS LOCATION INTERFERES WITH THE TOWER SITE. THE LEASED PREMISES SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES AFFECT THE PARENT PARCEL, AND IS SHOWN ON SURVEY)**
4. THE LOCATION OF THE LEASED PREMISES DESCRIBED IN THE MEMORANDUM OF FCS SITE AGREEMENTS BETWEEN CITY OF WEST ALTON AND INDUS, INC. RECORDED AS INSTRUMENT NOS. 72484932 AND 7913920, AS AMENDED BY THAT CERTAIN INSTRUMENT SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES NOT AFFECT THE PARENT PARCEL, AND IS SHOWN ON SURVEY)**
5. THE LOCATION OF THE EASEMENT GRANTED TO THE WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED IN VOLUME 4156, PAGE 465 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE SITE. **(UNABLE TO DETERMINE EXACT LOCATION OF EXISTING EASEMENT DUE TO THE DOCUMENT BEING ILLEGIBLE)**
6. THE LOCATION OF THE EASEMENT GRANTED TO THE WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED IN VOLUME 4086, PAGE 14 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE SITE. **(UNABLE TO DETERMINE EXACT LOCATION OF EXISTING EASEMENT DUE TO THE DOCUMENT NOT PROVIDING A PLOTTABLE DESCRIPTION)**
7. THE LOCATION OF THE EASEMENT GRANTED TO THE WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED IN VOLUME 3924, PAGE 111 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE SITE. **(UNABLE TO DETERMINE EXACT LOCATION OF EXISTING EASEMENT DUE TO THE DOCUMENT NOT PROVIDING A PLOTTABLE DESCRIPTION)**
8. THE LOCATION OF THE EASEMENT GRANTED TO THE WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY RECORDED IN VOLUME 3978, PAGE 615 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE SITE. **(UNABLE TO DETERMINE EXACT LOCATION OF EXISTING EASEMENT DUE TO THE DOCUMENT NOT PROVIDING A PLOTTABLE DESCRIPTION)**
9. THE LOCATION OF THE EASEMENT GRANTED TO THE METROPOLITAN SEWERAGE COMMISSION OF THE COUNTY OF MILWAUKEE INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES NOT AFFECT THE PARENT PARCEL, THEREFORE NOT SHOWN ON SURVEY)**
10. THE LOCATION OF THE EASEMENT GRANTED TO THE CITY OF WEST ALTON RECORDED AS INSTRUMENT NO. 72411873 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES NOT AFFECT THE PARENT PARCEL, EXISTING EASEMENT IS SHOWN ON SURVEY)**
11. THE LOCATION OF THE EASEMENT GRANTED TO WISCONSIN BELL, INC., DBA AMERTECH WISCONSIN RECORDED AS INSTRUMENT NO. 7240202 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES AFFECT THE PARENT PARCEL, EXISTING EASEMENT IS SHOWN ON SURVEY)**
12. THE LOCATION OF THE EASEMENT GRANTED TO THE CITY OF WEST ALTON RECORDED IN VOLUME 174, PAGE 512 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES NOT AFFECT THE PARENT PARCEL, THEREFORE NOT SHOWN ON SURVEY)**
13. CERTIFIED SURVEY MAP NO. 530C, RECORDED AS INSTRUMENT NO. 6300590 IS ACCEPTABLE. **(EXISTING CERTIFIED SURVEY MAP IS SHOWN ON SURVEY)**
14. THE LOCATION OF THE EASEMENT GRANTED TO WISCONSIN ELECTRIC POWER COMPANY RECORDED AS INSTRUMENT NO. 08979300 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER. THE LOCATION SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES AFFECT THE PARENT PARCEL, EXISTING EASEMENT IS SHOWN ON SURVEY)**
15. THE LOCATION OF THE EASEMENT GRANTED TO CELCOLO PARTNERSHIP DBA VERIZON WIRELESS RECORDED AS INSTRUMENT NO. 01414141 SHOULD BE VERIFIED TO THE EXTENT POSSIBLE TO ENSURE THE LOCATION DOES NOT INTERFERE WITH THE TOWER SITE. THE EASEMENT SHOULD BE PLOTTED ON THE SITE PLANS AND CONSTRUCTION DRAWINGS FOR THE TOWER SITE. **(EXISTING EASEMENT DOES AFFECT THE PARENT PARCEL, EXISTING EASEMENT IS SHOWN ON SURVEY)**

COMMENCING AT A FOUND BRASS CAP IN CONCRETE LOCATING THE

PROPOSED AT&T 4" WIDE UTILITY-EASEMENT CENTERLINE DESCRIPTION:

A PORTION OF LAND LOCATED IN PARCEL TWO (2) OF CERTIFIED SURVEY MAP (C.S.M.) NUMBER 5306, BEING A PART OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 5W (6), TOWNSHIP 5W (6) NORTH, RANGE TWENTY-ONE (21) EAST, CITY OF WEST ALIST, MILWAUKEE COUNTY, WISCONSIN AND BEING FURTHER DESCRIBED AS FOLLOWS:

[illegible]

PROPOSED AT 4' 4" WIDE UTILITY EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN PARCEL TWO (2) OF CERTIFIED SURVEY MAP (C.S.M.) NUMBER 5306, BEING A PART OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION SIX (6), TOWNSHIP SIX (6) NORTH, RANGE TWENTY-ONE (21) EAST, CITY OF WEST ALLIS, MILWAUKEE COUNTY, WISCONSIN AND BEING FURTHER DESCRIBED AS FOLLOWS:

[illegible]

I hereby certify that this Survey Document was prepared and the related Survey Work was performed by me or under my direct personal supervision and that I am a duly Licensed Land Surveyor under the Laws of the State of Missouri.



Trent D. Nelson / PLS
License Number: 3132-8

REV	DATE	DESCRIPTION	DATE ISSUED
1	3/23/21	ADD A1A17 PROPOSED TAILMENTS	04/23/2021
2	4/22/21	PROPOSED ACCESS EASEMENT UPDATES	

WEST ALLIS WATER
TOWER

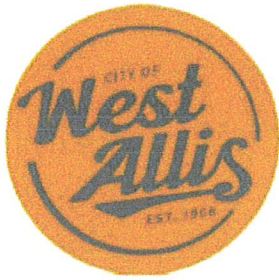
PROJECT ADDRESS:
11515 WEST ROGERS ST.
WEST ALLIS, WI 53227
MILWAUKEE COUNTY

SITE SURVEY

NONE

PROJECT NUMBER	50114
SHEET NUMBER	3 OF 3

ATTACHMENT B-1
ANTENNA SITE APPLICATION



ANTENNA SITE APPLICATION

West Allis Municipal Water Utility
6300 West McGeoch Ave
West Allis, WI 53219
(414) 302-8245

Date Received by
Water Utility

A. SITE APPLICATION

- Water Tower Site Name and Location ("Site"): West Allis Watertank (WI)
- Wireless Carrier's Corporate Designation ("Carrier"): AT&T
- Desired Date of Operation: _____
- Description of Project (example: Install 3 new radio units, relocate 3 antennas):
Replace: (6) Antennas, (9) RRUs; Remove: (12) TMAs, (3) Antennas;
Relocate: (6) Coax [from p3 to p2], (3) RRUs [from p2 to p1];
Add: (2) DC Cables, (1) Fiber, (1) Squid, (1) RET/Alarm Cable, (3) RRUs

1. Applicant Information

- a. Name of Applicant: New Cingular Wireless PCS, LLC a Delaware limited liability company
- b. Applicant's Address: 1025 Lennox Park Blvd. NE 3rd Floor, Atlanta GA 30319
- c. Applicant's Contact Person: Deena Rudmann
 - i. Mobile: 630-881-5338
 - ii. Email: deena.rudmann@sacw.com
- d. Technical Advisor (A&E Firm): CLS David Rogers
 - i. Mobile: 405-348-5460
 - ii. Email: _____

2. RF and Spectrum Information

- a. Proposed Radio Band: 700/850/1900/2100/2300
- b. Proposed Radio Frequencies: (see attached frequency list)
(attach list, if necessary)
- c. Type of Service (e.g., SMR, ESMR, PCS, Wi-Fi): LTE/UMTS/FNET
- d. ☒ Licensed Spectrum ☐ Unlicensed Spectrum (check box)

- e. If unlicensed spectrum, attach a detail description of the portions of the project using unlicensed spectrum.
- f. If this is a Distributed Antenna System project, attach the Radio Frequency Coverage Maps prepared by the FCC Licensee.
- g. This Site will be interconnected via radio frequency transmission to other existing or anticipated site(s) -- Yes or No (circle one)

3. **Antenna Facilities (attach applicable specifications)**

- a. Number of antennas: 9 Antennas
- b. Number of zones: 3
- c. Antenna dimensions: See attachment.
- d. Antenna type, manufacturer, and model number: (3) Commscope NNH4- 65B- R6H4,
(3) Commscope NNH4-65B-R6, (3) SBNHH-1D65C
- e. Number of radio units: 15 RRUs
- f. Radio unit dimensions: See attachment.
- g. Radio unit type, manufacturer, and model number: Ericsson: (3) RRUS 32, (3) RRUS-4478,
(3) RRUS 4415, (3) RRUS-32-B66, (3) RRUS 4449
- h. Transmission line or cable manufacturer and model number: (12) Coax, (6) DC lines, (2) Fiber
- i. Size of cables: Coax- 7/8", DC-7/8", Fiber- .40"
- j. Number of cables: 20 Line count
- k. Antenna location on tower: (Alpha 0, Beta 120, Gamma 240)
(N, S, E, W, NE etc. or specify the exact antenna azimuths)
- l. GPS Antenna -- Yes or No (circle one)
- m. If yes, provide size, dimensions, and weight: _____

4. **Dish Equipment (attach applicable specifications)**

- a. Number of dishes: N/A
- b. Microwave -- Yes or No (circle one) Satellite -- Yes or No (circle one)
- c. Dish dimensions: _____

- d. Dish type, manufacturer, and model number: _____

- e. Provide manufacturer and model number of transmission line or cable:

- f. Size of cables: _____ Number of cables: _____
- g. Dish location on tower: _____

5. **Ground Equipment (attach applicable specifications)**

- a. Square feet required: Existing- 21' x 21'
- b. Inside Tower -- Yes or No (circle one)
- c. Inside Applicant's building -- Yes or No (circle one)
- d. Number of cabinets: 6 Outdoor Cabinets, 1 proposed Outdoor Cabinet swap
- e. Cabinet dimensions: Replacement Purcell FLX21-2520 Cabinet- 39.7" x 25.3" x 30"
- f. Number of air conditioners: N/A Description: _____

- g. Generator on Site -- Yes or No (circle one)
- h. If yes, provide type, size, and location: _____

- i. Isolator manufacturer and model number: _____
- j. Duplexer manufacturer and model number: _____
- k. Filters manufacturer and model number: _____
- l. Controls used in addition to the transmitter/receiver cabinet(s) -- Yes or No (circle one)
- m. If yes, how many? _____ Provide manufacturer and model number: _____

B. **AGREEMENT TO PAY CITY OF WEST ALLIS'S COSTS ("OWNER'S COSTS")**

1. **Owner's Costs.** By signing this Application, Carrier agrees and acknowledges that it is responsible for all Owner's Cost, which include all costs and expenses incurred by Owner associated with Carrier's proposed use of Owner's water tower site. Owner's Costs include, but are not limited to, those costs associated with the following work if performed by Owner, its employees, or its legal or engineering consultants:
 - a. Interference analysis and inter-modulation study
 - b. Review of Carrier's construction drawings ("CDs")
 - c. Negotiation of agreements or amendments to related agreements between Carrier and Owner and related attorney's fees
 - d. Inspection of work done on Carrier's behalf
 - e. Site coordination
 - f. Surveying
2. **Deposit Required.**
 - a. Carrier shall submit a deposit in the form of a certified check payable to **City of West Allis*** in the amount of **\$10,000.00**. The check shall be submitted with a completed and executed Application. Owner shall use the deposit to pay Owner's Costs, as described above.
 - b. If the initial deposit is insufficient to cover all of Owner's Costs, Carrier shall provide Owner with an additional deposit in an amount agreed upon by Owner and Carrier. Upon Owner's request, Carrier shall cease any work at the Site until Owner receives the additional deposit from Carrier.
 - c. Any unused deposit amounts will be returned to Carrier within thirty (30) days after Carrier has completed its proposed project, provided that Owner's post-construction review confirms that the project has been built in accordance with the CDs for the project as approved by Owner.

To be executed by Carrier or Carrier's authorized representative:

Signature: _____ Date: _____

Name: _____
(Print or Type)

Title: _____

***Checks should be sent to:**

West Allis Municipal Water Utility
Attn: Utility Clerk
6300 West McGeoch Ave
West Allis, WI 53219

ATTACHMENT B-1
CONSTRUCTION DRAWINGS AND INVENTORY

(The attached Construction Drawings are approved by Owner.)

**ALL DIGGERS HOTLINE
DAYS BEFORE YOU DIG
811 OR 1-800-242-8511**



RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
CLS PROJECT ID:
24015-10080397-A+E-P2
COA# 3677 EXP. 01/31/2022

REVISIONS			INITIALS
N.	DATE	DESCRIPTION	
	08/27/19	CLIENT COMMENTS	JR
	09/23/20	CLIENT COMMENTS	JT
	10/01/20	CLIENT COMMENTS	JT
	12/09/20	CLIENT COMMENTS	CA
	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS

EXP: 07/31/2022
45562-6

WI1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

GENERAL NOTES

GN1

SHEET NUMBER

GROUNDING NOTES

- [illegible]

ABBREVIATIONS

[illegible]

ELECTRICAL INSTALLATION NOTES CONT.

- [illegible]

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 1. CONTRACTOR – GENERAL CONTRACTOR
 2. SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 3. OWNER – STATE OF MISSOURI
 4. OWNER AGENT – MOBILE HOME MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. THE SUBCONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, QUANTITIES AND DIMENSIONS BEFORE STARTING CONSTRUCTION. THE SUBCONTRACTOR SHALL ADVISE THE OWNER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES TO ALL SUBS. SUBS. SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF THE PUBLIC WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND DRAWINGS. CABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS OF THE SUBCONTRACTOR DRAWINGS.
5. THE SUBCONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE. IF THE SPECIFIED RECOMMENDATION CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE OWNER.
6. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWERS AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND T1 CABLE DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE OWNER. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
7. THE SUBCONTRACTOR SHALL PROVIDE ALL NECESSARY ERECTION, CEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
8. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY REMOVE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS DISPOSED OF THE EXISTING FACILITY. SUBCONTRACTOR SHALL LEAVE PREMISES CLEAN AND FREE OF ALL DEBRIS.
9. SUBCONTRACTOR SHALL LEAVE PREMISES CLEAN AND FREE OF ALL DEBRIS.
10. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
11. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AND BE FINISHED WITH A 3/4" FINISH.
12. ALL CONCRETE WITH A 3/4" FINISH REQUIRED FOR ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 308 CODE REQUIRED.
13. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC 13 EDITION SPECIFICATIONS.
14. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3AP5-A00Z-000002.
15. SUBCONTRACTOR SHALL VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH THE WORK.
16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT SHALL BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY BE INTERRUPTED DUE TO THE NEED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTERNOON.
17. THE CELL SITE MAY BE ACTIVE. ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO ANY DANGEROUS EXPOSURE LEVELS. WORKERS ARE REQUIRED TO BE WORK TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
18. ALL ANTENNA PIPES SHALL BE SCHEDULE 80.
19. LIMITS OF LIABILITY – ITEMS REFERENCED ARE OWNER/CLIENT DICATED ITEMS, OR SUPPLIED ITEMS WHICH ARE REPRODUCED WITHOUT ALTERATION AS DIRECTED BY OWNER/CLIENTS AND OWNER/CLIENT ASSUMES ANY AND ALL LIABILITY FOR USE OF, CONSEQUENCES OF, OR INTERPRETATION OF SAID ITEM, SPECIFICATION, OR DIRECTIVE, AND AGREES TO INDEMNIFY AND HOLD ENGINEER COMPLETELY HARMLESS.
20. PROFESSIONAL SEAL – DETAILS, SPECIFICATION(S), OR ITEMS REFERENCED, ARE NOT PART OF THE PROFESSIONAL DESIGN PERFORMED BY LICENSEE AND THE PROFESSIONAL SEAL DOES NOT APPLY.
21. THE SUBCONTRACTOR SHALL REFERENCED ARE OWNER/CLIENT DICATED ITEMS, OR SUPPLIED ITEMS WHICH ARE REPRODUCED WITHOUT ALTERATION AS DIRECTED BY OWNER/CLIENTS AND OWNER/CLIENT ASSUMES ANY AND ALL LIABILITY FOR USE OF, CONSEQUENCES OF, OR INTERPRETATION OF SAID ITEM, SPECIFICATION, OR DIRECTIVE, AND AGREES TO INDEMNIFY AND HOLD ENGINEER COMPLETELY HARMLESS.

ELECTRICIAN INSTALLATION NOTES

1. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELLURIDIA.
2. SUBCONTRACTORS SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BITS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.

SEH PAINTING NOTES

SECTION 09 97 15

COATING SYSTEMS FOR TELECOMMUNICATION EQUIPMENT

PART 1 GENERAL

1.01 SUMMARY

- A. SECTION INCLUDES PAINTING AND PAINTING REPAIR WORK ASSOCIATED WITH THE INSTALLATION OF ANTENNAS, COAXIAL CABLES, AND OTHER COMMON COMPONENTS WITH DIRECT ATTACHMENT TO WATER TANK FACILITIES.

1.02 REFERENCES

- A. SOCIETY FOR PROTECTIVE COATINGS (SSPC):
WWW.SSPC.ORG

1. VOLUME 1: GOOD PAINTING PRACTICE
2. VOLUME 2: SYSTEMS AND SPECIFICATIONS
- 3.03 SUBMITTALS

- A. PRODUCT DATA: SUBMIT DATA SHEET FOR EACH COATING SYSTEM.

PART 2 PRODUCTS

2.01 MATERIALS

A. MANUFACTURERS:

1. SHERWIN WILLIAMS COMPANY WWW.SHERWIN-WILLIAMS.COM
2. TNEPEC COMPANY WWW.TNEPEC.COM
3. X-I-M PRODUCTS WWW.XIMBONDER.COM

PART 3 EXECUTION

3.01 EXAMINATION

- A. VISUALLY EVALUATE SURFACE PREPARATION BY COMPARISON WITH PICTORIAL STANDARDS OF SSPC-VIS-1-B9.

3.02 PREPARATION

- A. REMOVE ALL SURFACE CONTAMINANTS IN ACCORDANCE WITH SSPC-SP1 SOLVENT CLEANING.
 1. DO NOT USE HYDROCARBON SOLVENTS ON SURFACES TO BE COATED WITH WATER-BASED COATINGS.
- B. CLEAN AND REMOVE ALL RUST, SLAG, WELD SPLATTER, WELD SCABS, MILL SCALE, AND LOOSE PAINT.
- C. PROTECT AREAS ADJACENT TO WELDING & OR GRINDING OPERATIONS TO PREVENT DAMAGE OF SURROUNDING INTACT PAINT SYSTEM.

D. FERROUS METAL: SSPC-SP6 COMMERCIAL BLAST CLEANING

E. GALVANIZED STEEL: SSPC-SP7 BRUSH OFF BLAST

- F. ANTENNA COVERS, COAXIAL CABLE, NON-METALLIC SUBSTRATES AND PREVIOUSLY PAINTED SURFACES: SCARIFY TO DE-GLOSS. SPC-SP1 WITH A NON-HYDROCARBON SOLVENT.

- G. SURFACE PROFILE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRODUCT RECOMMENDATION.

H. RE-BLAST ALL SURFACES:

1. WHERE RUSTING HAS OCCURRED.
2. THAT DO NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.

3.03 APPLICATION

- A. COATINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- B. SURFACES TO BE COATED SHALL BE CLEAN, DRY, AND FREE OF AIRBORNE DUST AND CONTAMINANTS AT THE TIME OF APPLICATION AND WHILE FILM IS FORMING.
- C. FINISH COAT SHALL BE UNIFORM IN COLOR AND SHEEN WITHOUT STREAKS, LAPS, RUNS, SAGS OR MISSED AREAS.

- D. SHOP PAINTING: TAPE-OFF (2-INCH MINIMUM) SURFACES THAT WILL BE IN THE HEAT-AFFECTED-ZONE DURING FIELD WELDING.

E. COMPONENT PAINTING:

1. INTERIOR EXPOSED FERROUS METAL AND GALVANIZED STEEL:
 - a. PRODUCT: SHERWIN WILLIAMS MACROPOXY 646 OR TNEPEC SERIES 161
 - 1) NUMBER OF COATS: 2

- 2) DRY FILM THICKNESS: 4.0-6.0 MILS (PER COAT)
- 3) COLOR: BY OWNER

2. EXTERIOR EXPOSED FERROUS METAL AND GALVANIZED STEEL:

- a. PRIMER: SHERWIN WILLIAMS MACROPOXY 646 OR TNEPEC SERIES 161 OR N69

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 4.0-6.0 MILS

- 3) COLOR: BY OWNER

- b. FINISH: SHERWIN WILLIAMS ACRYLON 218 OR TNEPEC SERIES 10740/10750

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 2.0-3.0 MILS

- 3) COLOR: BY OWNER

3. ANTENNA COVERS:

- a. PRIMER: SHERWIN WILLIAMS PRO-CRYL PRIMER

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 2.0-4.0 MILS

- b. FINISH: SHERWIN WILLIAMS SHER-CRYL HPA

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 2.5-4.0 MILS

- 3) COLOR: BY OWNER

4. COAXIAL CABLE

- a. PRIMER: X-I-M 1138

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 2.0-3.0 MILS

- b. FINISH: SHERWIN WILLIAMS SHER-CRYL HPA

- 1) NUMBER OF COATS: 1

- 2) DRY FILM THICKNESS: 2.5-4.0 MILS

- 3) COLOR: BY OWNER

3.04 REPAIR OF AREAS DAMAGED BY WELDING

- A. PREPARE THE DAMAGE BY ONE OF THE TWO FOLLOWING METHODS AS DIRECTED BY THE ENGINEER.

1. ABRASIVE-BLAST TO SSPC-SP6.
2. MECHANICALLY CLEAN TO SSPC-SP11.

- B. FEATHER EDGES TO PROVIDE SMOOTH COATING TRANSITION.

- C. APPLY PRIME COAT TO BARE METAL SURFACE.

- D. MASK OFF RECTANGULAR AREA AROUND PRIME COAT.

- E. APPLY FINISH COAT.

3.05 QUALITY CONTROL

- A. MEASURE DRY FILM THICKNESS WITH A MAGNETIC FILM THICKNESS GAGE IN ACCORDANCE WITH SSPC-P42.

- B. VISUALLY INSPECT DRIED FILM FOR RUNS, SAGS, DRY SPRAY, OVERSPRAY, EMBEDDED PARTICLES AND MISSED AREAS.

- C. REPAIR DEFECTIVE OR DAMAGED AREAS IN ACCORDANCE WITH ARTICLES 3.02 AND 3.03.



530 NATIONAL PARKWAY
SCHMIDT, IL 60173



540 W. MADISON ST.
FIFTH FLOOR
CHICAGO, IL 60605
WWW.SQC.COM
312.555.4777



319 CHARLOTTE RD. SUITE 118
RALEIGH, NC 27603
PH: (919) 488-3460 FAX: (919) 481-4425
CLS PROJECT ID:
24015-100807-01-00-00
CON# 3577 EXP. 01/31/2022

REVISIONS		DATE	DESCRIPTION	INITIALS
B	09/27/19		CLIENT COMMENTS	JT
C	09/23/20		CLIENT COMMENTS	JT
D	10/01/20		CLIENT COMMENTS	JT
E	12/09/20		CLIENT COMMENTS	CM
G	03/03/21		FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET



PE# 45582-6 EXP. 07/31/2022

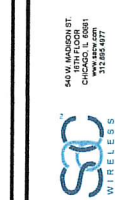
W1018
WEST ALLIS WATER
TOWER
FAX: 1008097
11915 W. ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN2



REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	JTD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
F	02/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

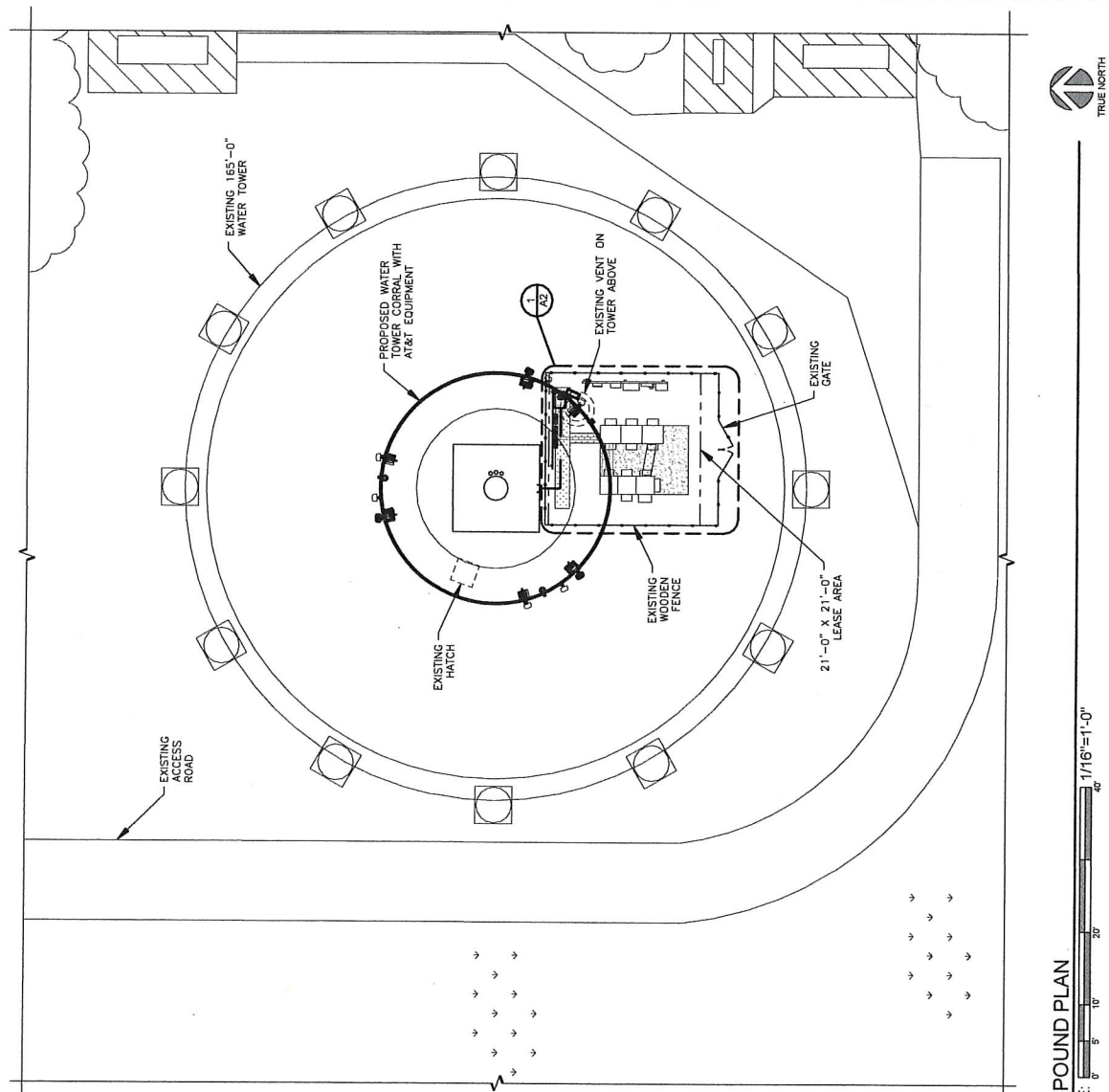


PE# 45552-6 EXP. 07/31/2022

W1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
COMPOUND PLAN

SHEET NUMBER
A1



1 COMPOUND PLAN

SCALE: 1/16"=1'-0"



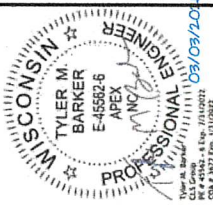
540 W. MADISON ST.
10TH FLOOR
CHICAGO, IL 60661
WWW.S2CW.COM
312.695.4977



RD, SUITE 118
NC 27603
FAX: (405)341-4625
OBJECT ID:
0397-A+E-P2
EXP. 01/31/2022

REVISIONS			INITIALS
REV.	DATE	DESCRIPTION	
B	08/27/19	CLIENT COMMENTS	JRD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
G	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

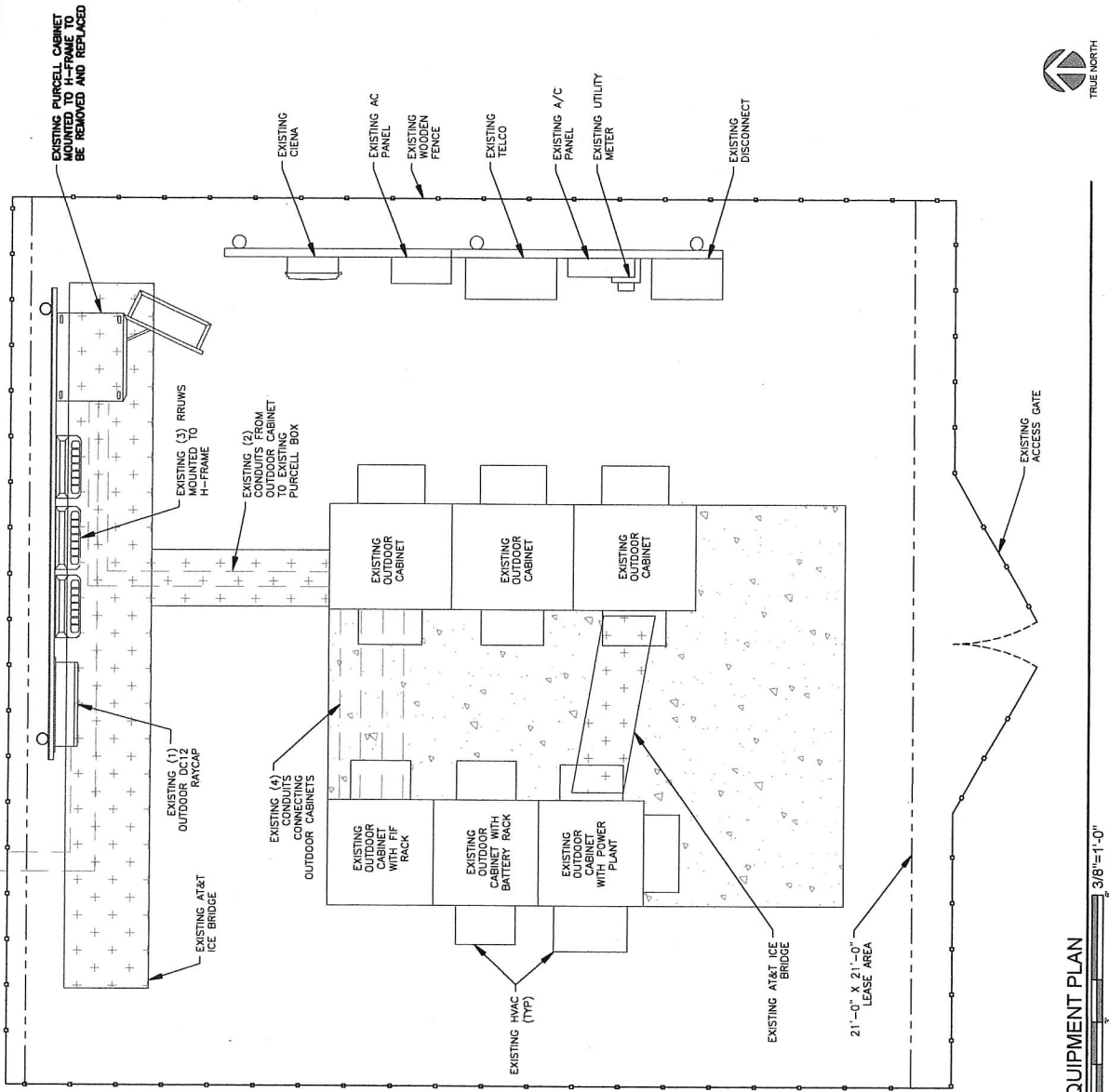


PE# 45562-6 EXP: 07/31/2022

WI1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
EXISTING
EQUIPMENT PLAN

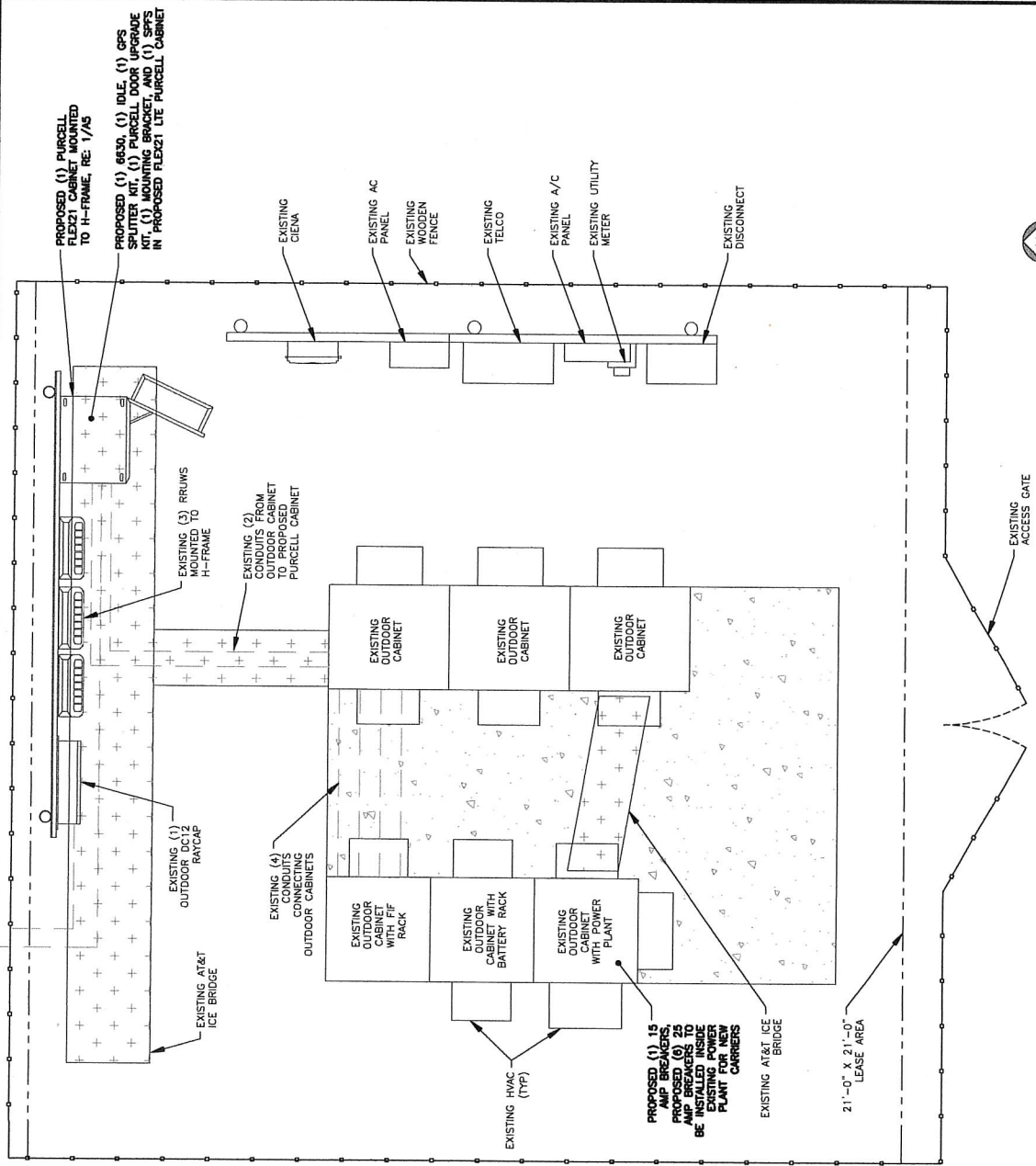
A2



1 EXISTING EQUIPMENT PLAN

SCOPE OF WORK

1. REPLACE (2) EXISTING DUS WITH (2) PROPOSED 5126.
2. REPLACE (2) EXISTING DUS WITH (2) PROPOSED 5126.
3. INSTALL (1) PROPOSED DC12 OUTDOOR RAYCAP.
4. REPLACE (2) EXISTING RECTIFIERS, (6) PROPOSED 25 AMP BREAKERS, AND (6) PROPOSED 30 AMP BREAKERS FOR NEW CARRIERS IN EXISTING POWER PLANT.
5. INSTALL AT&T LOWER FIBER FOR NEW CARRIERS.



1 PROPOSED EQUIPMENT PLAN
SCALE: 3/8"=1'-0"



330 NATIONAL PARKWAY
SCHUMBERG, IL 60173



2415 MADISON ST.
ST. LOUIS, MO 63103
314.288.4077



319 CHAMBERLAIN RD. SUITE 110
RALEIGH, NC 27603
CLS PROJECT ID: 240124-1005037
CLS # 3577 EXP: 07/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	JRO
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
F	03/23/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



PE# 45562-6 EXP: 07/31/2022

WI1018
WEST ALLIS WATER TOWER
FAX: 10060397
11513 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
PROPOSED EQUIPMENT & UTILITY PLAN

SHEET NUMBER
A2.1

LOADING NOTE:

OTHER CARRIERS EQUIPMENT MAY BE OMITTED FOR CLARITY.

TOWER NOTES

WATER TOWER IS SHOWN FOR ILLUSTRATION ONLY AND FOR LOCATION OF APPURTENANCE(S). REFER TO WATER TOWER SURVEY FOR ALL EXISTING WATER TOWER COMPONENTS TO INCLUDE ANTENNAS, LIGHTS, LIGHTNING ROD & WATER TOWER HEIGHT.

CONTRACTOR(S) TO COMPLY WITH ALL FCC AND FAA REGULATIONS ON THIS PROJECT.

COAX ROUTING MUST BE PER STRUCTURAL ANALYSIS.

PRIOR TO CONSTRUCTION:

CONTRACTOR SHALL VERIFY THAT A WATER TOWER AND MOUNT STRUCTURAL ANALYSIS, DEPICTING THE LOADING WITH WIND, SEVERE PERFORMED AND SHOWS A "PASS" OR AN "ACCEPTABLE" RATING. UNDER NO CIRCUMSTANCE SHALL ANY EXISTING EQUIPMENT BE INSTALLED WITHOUT SAID STRUCTURAL ANALYSIS. IF SAID STRUCTURAL ANALYSIS REQUIRES THAT THE WATER TOWER BE MODIFIED, SUCH MODIFICATIONS SHALL BE COMPLETED PRIOR TO INSTALLATION OF THE PROPOSED EQUIPMENT.

MOUNT DONE BY TELAMON CLS, PROJECT #24015-10080397-05-MOD-R4, DATED FEBRUARY 26, 2021. STRUCTURAL ANALYSIS DONE BY TELAMON CLS, PROJECT #24015-10080397-07-STR-02, DATED DECEMBER 18, 2020.

NOTE:

GENERAL CONTRACTORS SHALL MAKE SURE SAFETY CLIMB IS 100% FREE OF COAX AND CABLES. AFTER SYSTEM IS COMPLETE, TOWER HEIGHT SHALL NOT TO EXCEED MAXIMUM TIP HEIGHT OF 188'.



302 NATIONAL PARKWAY
SCHAMBERG, IL 60173



MAIN OFFICE: 312.685.4077
CHICAGO: 312.685.4077
CHICAGO: 312.685.4077



319 CHURCH RD, SUITE 118
BLOOMING, IL 61701
TEL: (815) 244-1440 FAX: (815) 244-1425
CLS PROJECT ID: 24015-10080397-05-MOD-R4
COM# 3577 EXP: 07/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	09/27/19	CLIENT COMMENTS	ARO
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
F	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



PE# 45582-6 EXP: 07/31/2022

WI1018
TOWER
FAX: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
TOWER ELEVATIONS

SHEET NUMBER
A3

EXISTING TOWER BEACON
ELEV. = 187'-0"
EXISTING AT&T ANTENNA
ELEV. = 177'-0"
WATER TOWER HEIGHT
ELEV. = 165'-0" AGL

EXISTING CORRAL MOUNT TO BE REMOVED AND REPLACED

EXISTING VENT

EXISTING HATCH

EXISTING 165'-0" WATER TOWER
RE: NOTES ON THIS PAGE

EXISTING COAX (4) DC POWER TRUNKS, & (1) FIBER TRUNK UP TANK DRY TUBE, RE: 1/E2

EXISTING TOWER BEACON
ELEV. = 187'-0"
PROPOSED AT&T ANTENNA
ELEV. = 177'-0"
WATER TOWER HEIGHT
ELEV. = 165'-0" AGL

PROPOSED CORRAL MOUNT PER MOUNT ANALYSIS DONE BY TELAMON CLS, PROJECT #24015-10080397-05-MOD-R4, DATED FEBRUARY 26, 2021

EXISTING VENT

EXISTING HATCH

EXISTING 165'-0" WATER TOWER
RE: NOTES ON THIS PAGE

PROPOSED (2) 6.6 DC POWER TRUNKS, (1) FIBER TRUNK, & (1) FIBER CABLE UP TANK DRY TUBE, RE: 2/E2

EXISTING COAX, (4) DC POWER TRUNKS, & (1) FIBER TRUNK UP TANK DRY TUBE, RE: 1/E2

1 EXISTING ELEVATION
SCALE: N.T.S.

2 PROPOSED ELEVATION
SCALE: N.T.S.



540 W. MADISON ST.
10TH FLOOR
CHICAGO, IL 60601
WWW.SDW.COM
312.595.4877



319 CHAPANOKE RD., SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
CLS PROJECT ID:
24015-10080397-A+E-P2
COA# 1677 EXP 01/31/2022

REVISIONS			INITIAL
REV.	DATE	DESCRIPTION	
B	08/27/19	CLIENT COMMENTS	JRO
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
D	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS



PE# 45562-6 EXP: 07/31/2022

WI1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11515 W ROGERS ST.

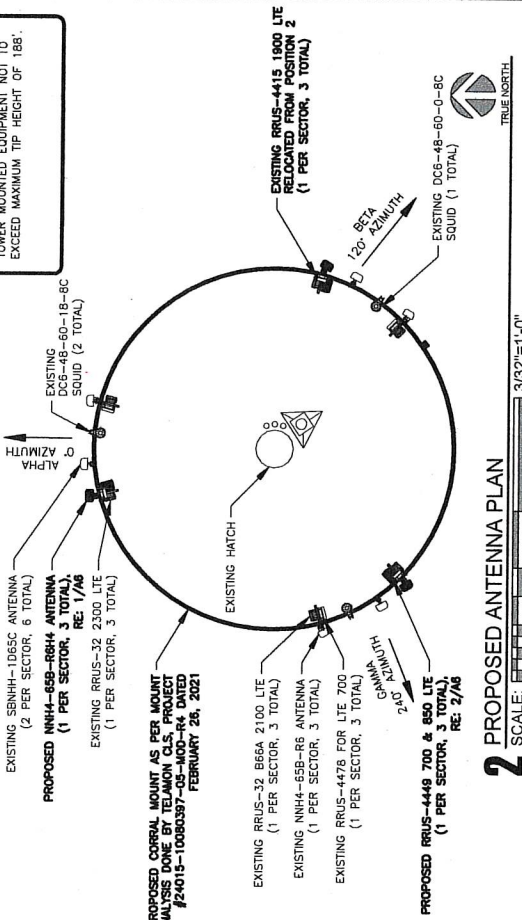
SHEET TITLE
**ANTENNA PLANS / ANTENNA
& COAX SCHEDULE**

SHEET NUMBER

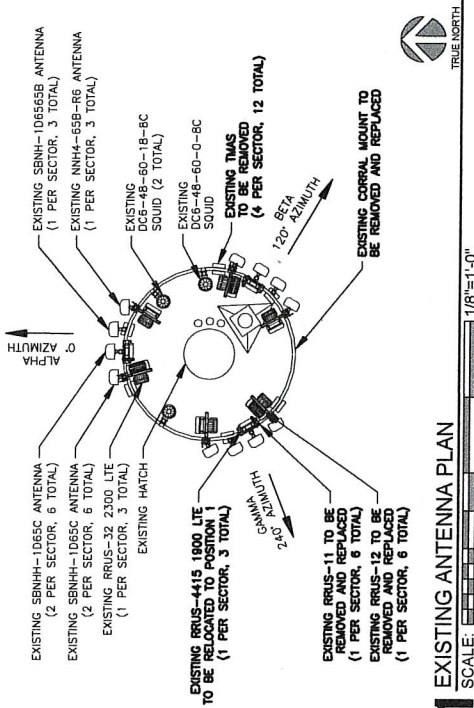
A4

NOTE:

TOWER MOUNTED EQUIPMENT NOT TO EXCEED MAXIMUM TIP HEIGHT OF 188'.



PROPOSED ANTENNA PLAN



EXISTING ANTENNA PLAN

ANTENNA AND COAXIAL CABLE SCHEDULED
BOLD DENOTES PROPOSED EQUIPMENT

ANTENNA AND COAXIAL CABLE SCHEDULE BOLD DENOTES PROPOSED EQUIPMENT										
ANTENNA MARK	SECTOR	DESCRIPTION OF ANTENNAS	ANTENNA ORIENTATION	ANTENNA QUANTITY	BAO CENTER	TMA QUANTITY	COAX/CABLE	SURGE PROTECTION	RRU MODEL	TECHNOLOGY
A1	ALPHA	(P) COMSCOPE NNH4-65C-R6H4	0°	1	177'	--	(E) (2) 7/8" COAX (E) (4) 0.82" DC (E) (1) 0.40" FIBER	(E) (1) RAYCAP DCS-48-60-18-BC	(P) (1) RRUS-4449 (P) (1) RRUS-4415 (E) (1) RRUS-32	LTE 700 LTE 850 LTE 1900 LTE 2300
A2	ALPHA	(E) ANDREW SENHH-1D55C	0°	1	177'	--	(E) (2) 7/8" COAX	--	--	--
A3	ALPHA	--	--	--	--	--	--	--	(E) (2) RRW (GROUND MOUNTED)	UMTS 1900
A4	ALPHA	(E) COMSCOPE NNH4-65C-R6	0°	1	177'	--	(E) (2) 0.82" DC (E) (1) 0.40" FIBER	--	(P) (1) RRUS-4478 (P) (1) RRUS-32 BEBA	LTE 700 LTE 850 LTE 1900
B1	BETA	(P) COMSCOPE NNH4-65C-R6H4	120°	1	177'	--	(E) (2) 7/8" COAX	(E) (1) RAYCAP DCS-48-60-0-BC	(P) (1) RRUS-4449 (P) (1) RRUS-4415 (E) (1) RRUS-32	LTE 700 LTE 850 LTE 1900 LTE 2300
B2	BETA	(E) ANDREW SENHH-1D55C	120°	1	177'	--	(E) (2) 7/8" COAX	--	--	--
B3	BETA	--	--	--	--	--	--	--	(E) (2) RRW (GROUND MOUNTED)	UMTS 1900
B4	BETA	(E) COMSCOPE NNH4-65C-R6	120°	1	177'	--	--	--	(P) (1) RRUS-4478 (P) (1) RRUS-32 BEBA	LTE 700 LTE 2100
G1	GAMMA	(P) COMSCOPE NNH4-65C-R6H4	240°	1	177'	--	(E) (2) 7/8" COAX	(E) (1) RAYCAP DCS-48-60-18-BC	(P) (1) RRUS-4449 (P) (1) RRUS-4415 (E) (1) RRUS-32	LTE 700 LTE 850 LTE 1900 LTE 2300
G2	GAMMA	(E) ANDREW SENHH-1D55C	240°	1	177'	--	(E) (2) 7/8" COAX	--	--	--
G3	GAMMA	--	--	--	--	--	--	--	(E) (2) RRW (GROUND MOUNTED)	UMTS 1900
G4	GAMMA	(E) COMSCOPE NNH4-65C-R6	240°	1	177'	--	--	--	(P) (1) RRUS-4478 (P) (1) RRUS-32 BEBA	LTE 700 LTE 2100

3 ANTENNA AND COAX SCHEDULE

SCALE: N.T.S.

PURCELL FLX21-2520 CABINET

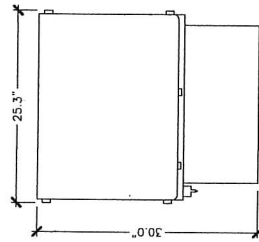
MANUFACTURER: PURCELL

MODEL: FLX21-2520

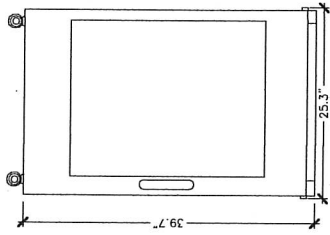
DIMENSIONS: 39.7" x 25.3" x 30"

H X W X D (IN)

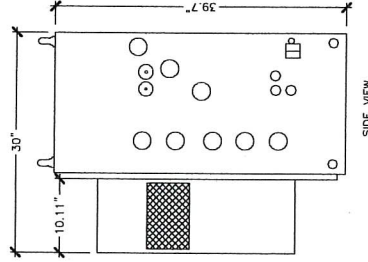
WEIGHT (LBS): 140.0 LBS



TOP VIEW



FRONT VIEW



SIDE VIEW

1 EQUIPMENT ENCLOSURE SPECIFICATIONS

SCALE: N.T.S.

RE: GN22/GNT

2 NOT USED
SCALE: N.T.S.

RE: GN22/GNT



930 NATIONAL PARKWAY
SCHAMBERG, IL 60173



340 W. MADISON ST.
10TH FLOOR
CHICAGO, IL 60601
www.sbcwireless.com
312.355.4077



318 CHURCH ST., SUITE 118
BALDWIN, NC 27003
PH: (403)48-5460 FAX: (403)41-4023
CLS PROJECT ID:
24015-1080397-A4E-P2
CON # 3271 EXP: 07/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	JTD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
O	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET



PE# 45582-6 EXP: 07/31/2022

W1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11615 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE

EQUIPMENT DETAILS

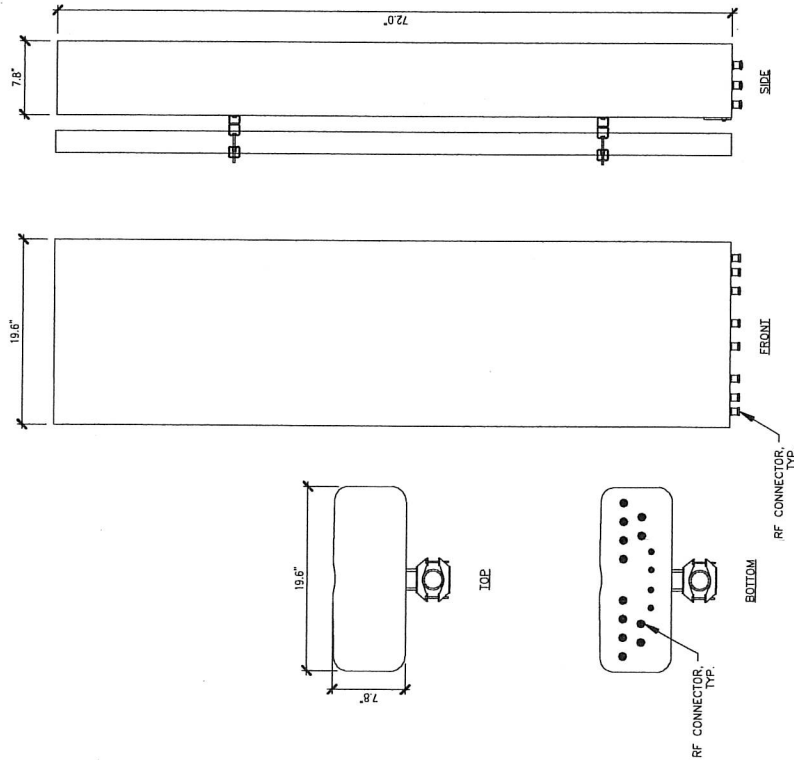
SHEET NUMBER

A5

NOTE:
ANTENNA INFORMATION
PULLED FROM PRELIMINARY
PRODUCT DATA SHEET

COMMSCOPE NNH4-65B-R6

MANUFACTURER: COMMSCOPE
MODEL: NNH4-65B-R6H4
DIMENSIONS: 72.0" x 19.6" x 7.8"
(HxWxD)
WEIGHT: 88.2 LB
FREQUENCY: REFER TO RF DATA SHEET



1 ANTENNA SPECIFICATIONS

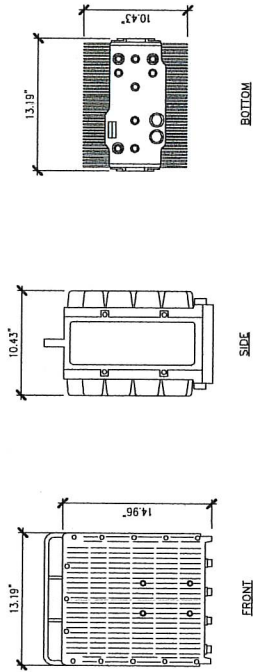
SCALE: N.T.S.

RE: GN22/GN1

ERICSSON RRUS-4449 B5/B12

MANUFACTURER: ERICSSON
MODEL: RRUS-4449 B5/B12
DIMENSIONS: 17.9" x 13.19" x 9.44"
(HxWxD)
WEIGHT: 71.0 LBS
FREQUENCY: REFER TO RF DATA SHEET

NOTE:
RRUS CAN ONLY BE
PAINTED ON SOLAR SHIELD.



2 REMOTE RADIO UNIT SPECIFICATIONS

SCALE: N.T.S.

RE: GN22/GN1



930 NATIONAL PARKWAY
SCHAMBERG, IL 60173



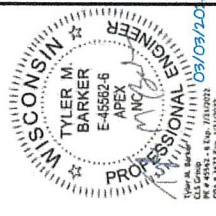
440 W. MADISON ST.
CHICAGO, IL 60601
312.555.4877



319 CHAMBERG RD. SUITE 116
MADISON, NC 27040
PH: (403)448-5460 FAX: (403)441-4623
CLS PROJECT ID:
240115-10580397-AE-P2
COM# 3577 EXP: 07/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	JRD
C	09/21/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
F	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET



PE# 45552-6 EXP: 07/31/2022

W1018
WEST ALLIS WATER
TOWER
FA# 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

A6

330 NATIONAL PARKWAY
SCHAMBERG, IL 60173

SAUL ANDERSON, JR.
15TH FLOOR
CHICAGO, IL 60601
312.865.4077

319 CHURCH ST. SUITE 118
MILWAUKEE, WI 53202
PH: (414) 348-3460 FAX: (414) 341-4825
CLS PROJECT ID: 24015-10080397-A4E-P2
COMP: 3877 EXP: 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	09/27/19	CLIENT COMMENTS	JTD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	DM
F	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

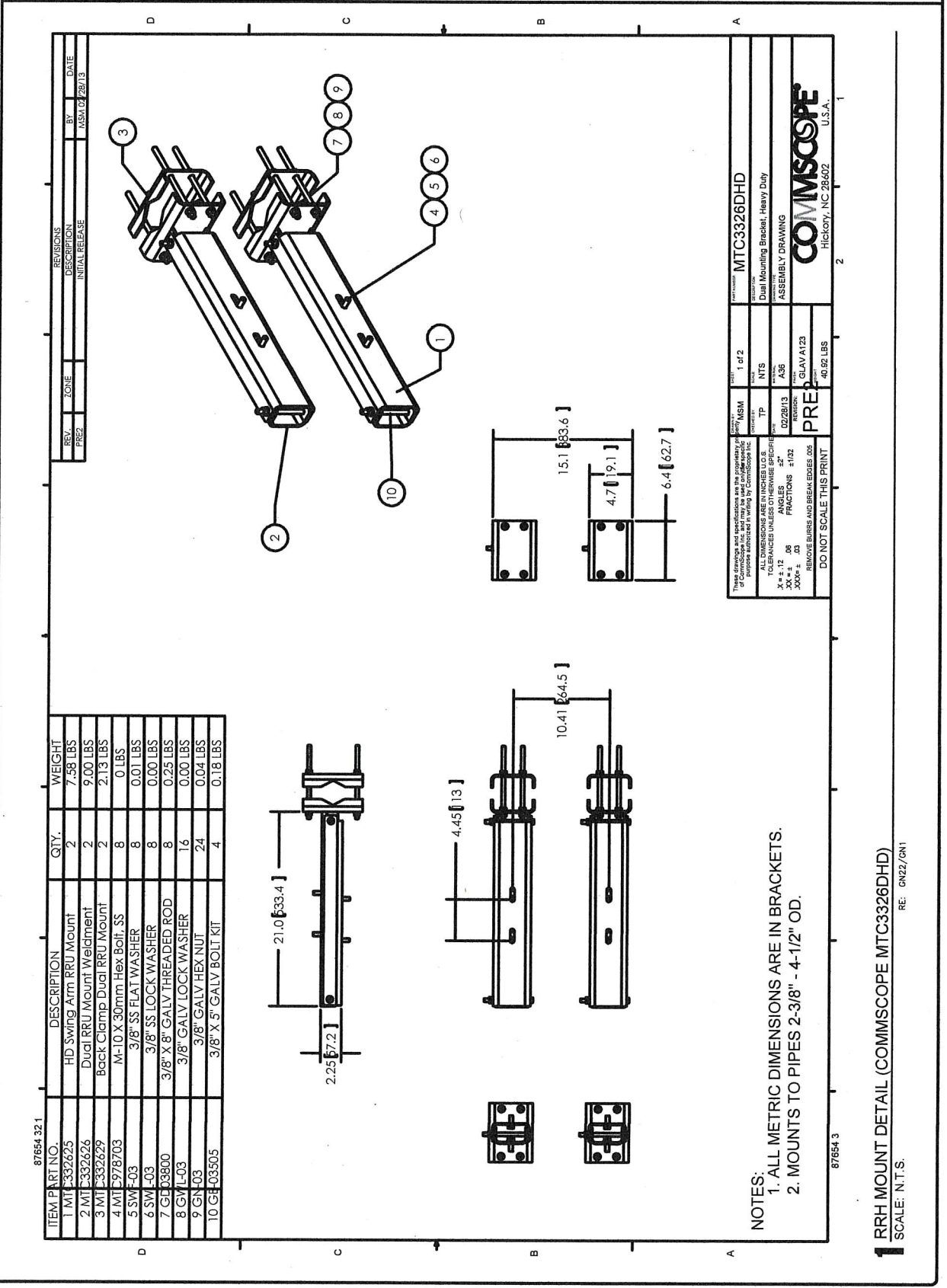
NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

PE# 45582-6 EXP: 07/31/2022

WH1018
WEST ALLIS WATER
TOWER
FAB: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A7





540 W. MADISON ST.
16TH FLOOR
CHICAGO, IL 60661
WWW.SBCW.COM
312.005.4977



319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625
CLS PROJECT ID:
24015-10080397-A+E-P2
COA# 3677 EXP. 01/31/2022

REVIEWS			INTENT
REV.	DATE	DESCRIPTION	
B	08/27/19	CLIENT COMMENTS	JO
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CA
F	03/03/21	FOR CONSTRUCTION	JT

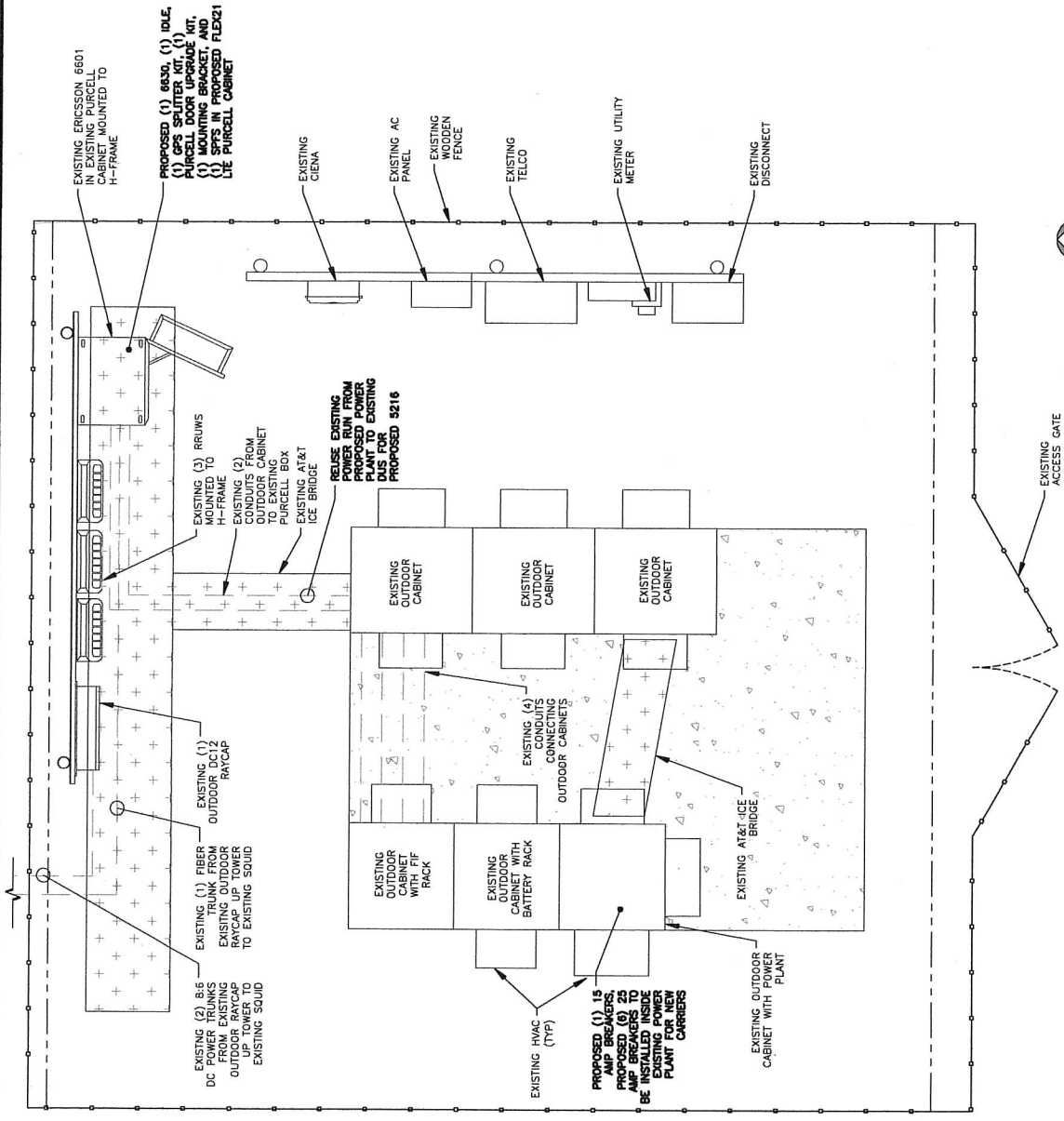


PE# 45562-6 EXP: 07/31/2023

WI1018
WEST ALLIS WATER
TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53091

SHEET TITLE
UTILITY PLAN

E1

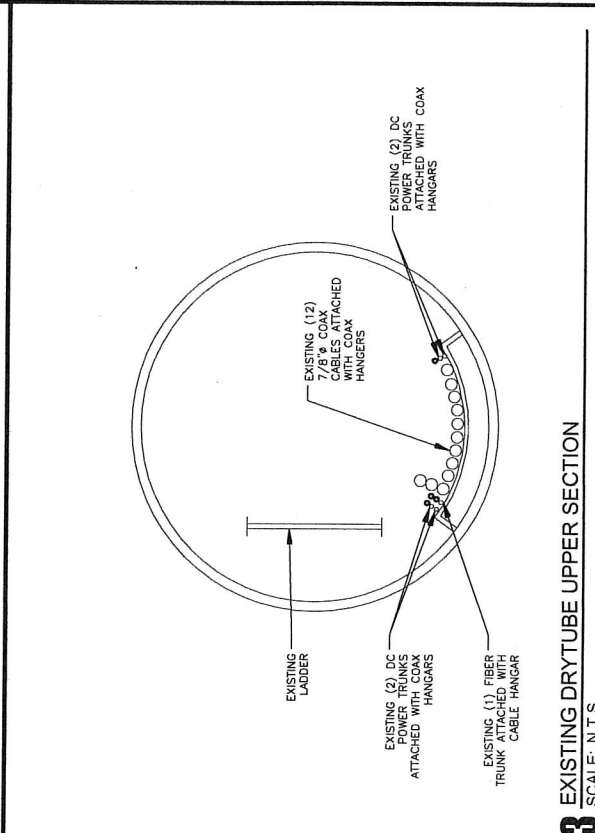
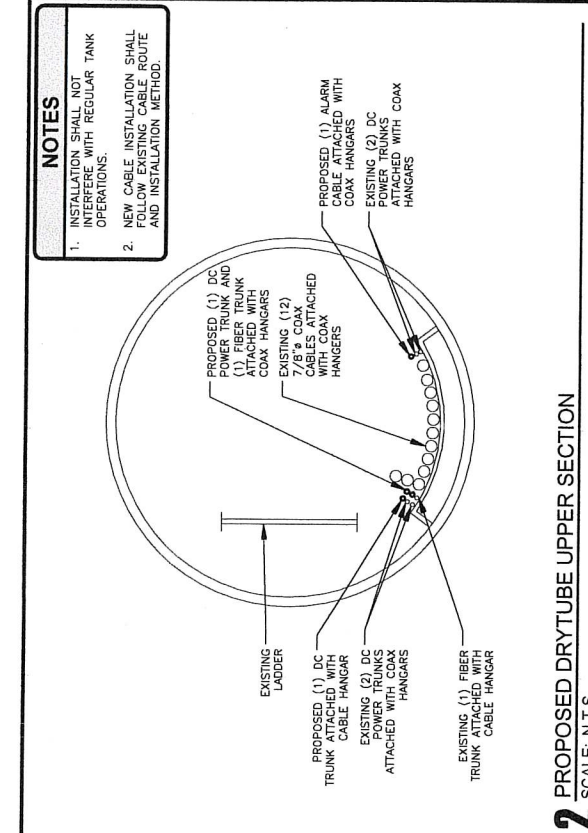
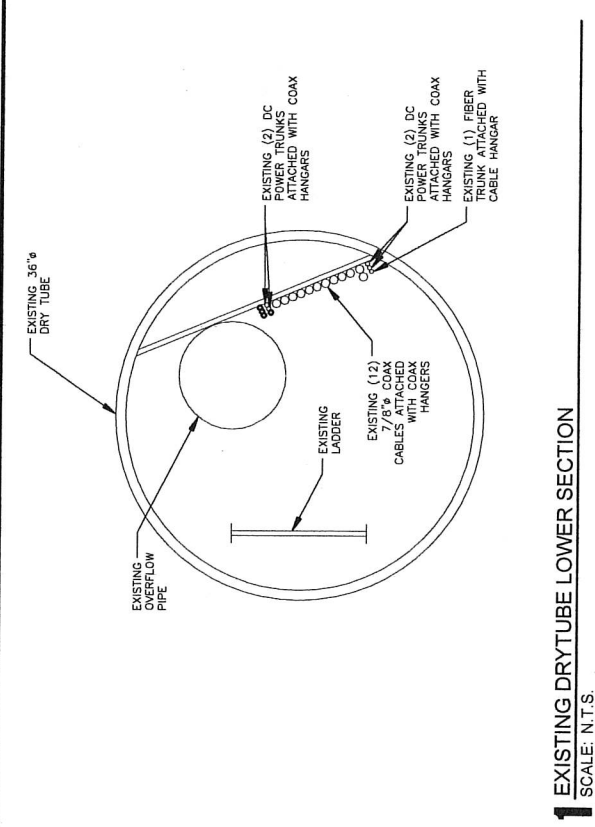
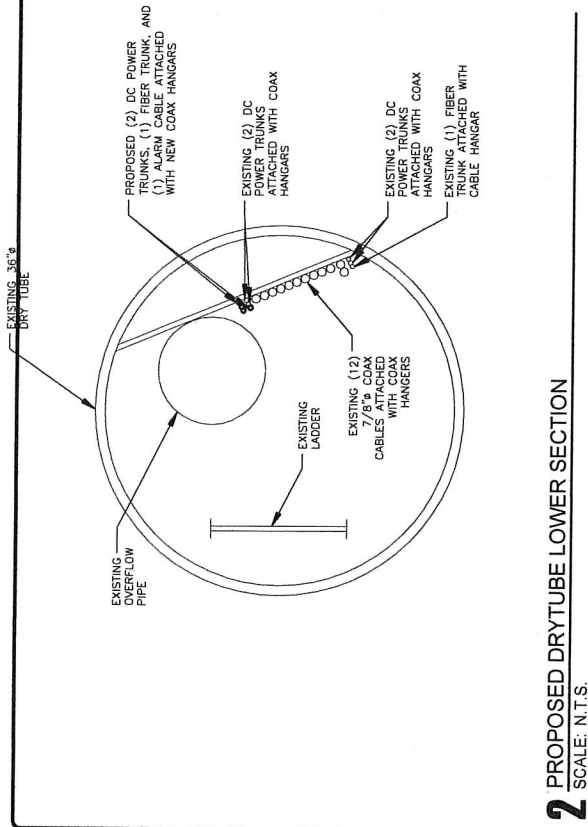


SCOPE OF WORK

1. REPLACE (2) EXISTING DJS WITH (2) PROPOSED 5126.
2. REPLACE IDL2 WITH IDL4.
3. INSTALL (2) PROPOSED DC12 OUTDOOR RAYCAP
4. INSTALL (2) PROPOSED RECTIFIERS, (6) PROPOSED 25 AMP BREAKERS, AND (6) PROPOSED TO AMP BREAKERS FOR NEW CARRIERS IN EXISTING POWER PLANT
5. INSTALL AT&T LOWER FIBER FOR NEW CARRIERS.

UTILITY PLAN

SCALE: 3/8"=1'-0"



NOTES

1. INSTALLATION SHALL NOT INTERFERE WITH REGULAR TANK OPERATIONS.
2. NEW CABLE INSTALLATION SHALL FOLLOW EXISTING CABLE ROUTE AND INSTALLATION METHOD.



930 NATIONAL PARKWAY
SCHMIDT, L. 60173



340 W. MADISON ST.
CHICAGO, IL 60601
312.463.4977



319 CHAMPAINE RD, SUITE 118
MADISON, WI 53703
PH: (608) 261-1000 FAX: (608) 261-1005
CLS 1000-1000-1000-1000
24015-10000397-A-E-P2
COM# 3677 EXP. 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	06/27/19	CLIENT COMMENTS	JT
C	06/27/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
G	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



REF: 45562-6 EXP: 07/31/2022

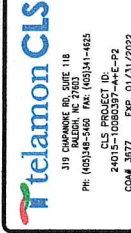
WI1018
WEST ALLIS WATER TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
E2

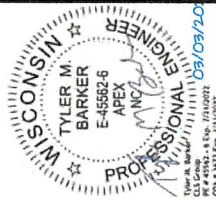
NOTES

1. INSTALLATION SHALL NOT INTERFERE WITH REGULAR TANK OPERATIONS
2. NEW CABLES TO USE EXISTING COAX PORTS/BOOTS.



REV.	DATE	DESCRIPTION	INITIALS
B	08/17/19	CLIENT COMMENTS	JT
C	09/23/20	CLIENT COMMENTS	JT
D	12/01/20	CLIENT COMMENTS	CM
E	12/09/20	CLIENT COMMENTS	JT
F	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS LABELED FOR CONSTRUCTION SET

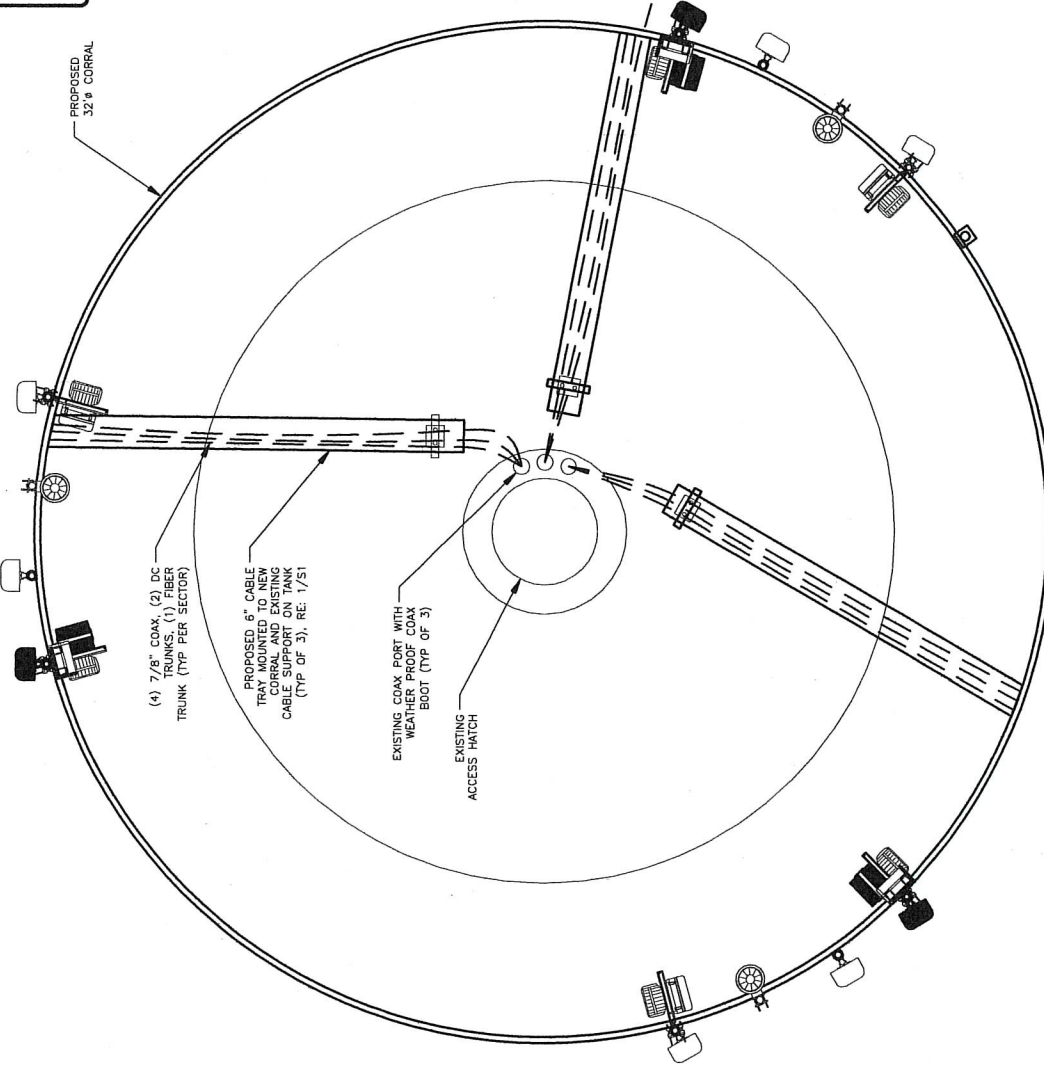


PE # 45582-6 EXP. 07/31/2022

WH1018
WEST ALLIS WATER TOWER
 FAF: 10080397
 11515 W ROGERS ST.
 WEST ALLIS, WI 53227

SHEET TITLE
UTILITY PLAN

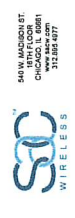
SHEET NUMBER
E2.1



1 TOP OF TANK CABLE ROUTING PLAN
 SCALE: N.T.S.



330 NATIONAL PARKWAY
SCHAMBERG, IL 60173



545 N. JACKSON ST.
CHICAGO, IL 60611
312.695.4177



319 S. JACKSON ST. SUITE 110
CHICAGO, IL 60607
PH: (408)48-5460 FAX: (408)41-4625

CLS PROJECT ID:
24015-10080397-A4E-P2

CD# 3577 EXP: 07/31/2022

REVISIONS		
REV.	DATE	DESCRIPTION
B	06/27/19	INITIALS
C	06/27/20	CLIENT COMMENTS
D	10/01/20	CLIENT COMMENTS
E	12/09/20	CLIENT COMMENTS
F	03/03/21	FOR CONSTRUCTION
G		NOT FOR CONSTRUCTION UNLESS LABELLED AS CONSTRUCTION SET



PE# 45592-6 EXP: 07/31/2022

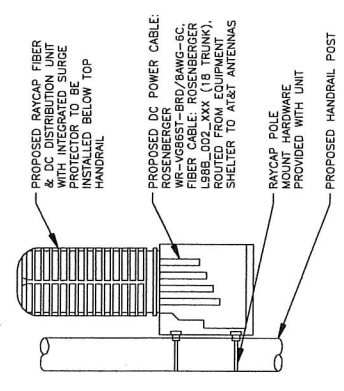
W1018
WEST ALLIS WATER
TOWER
FA# 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
STRUCTURAL DETAILS

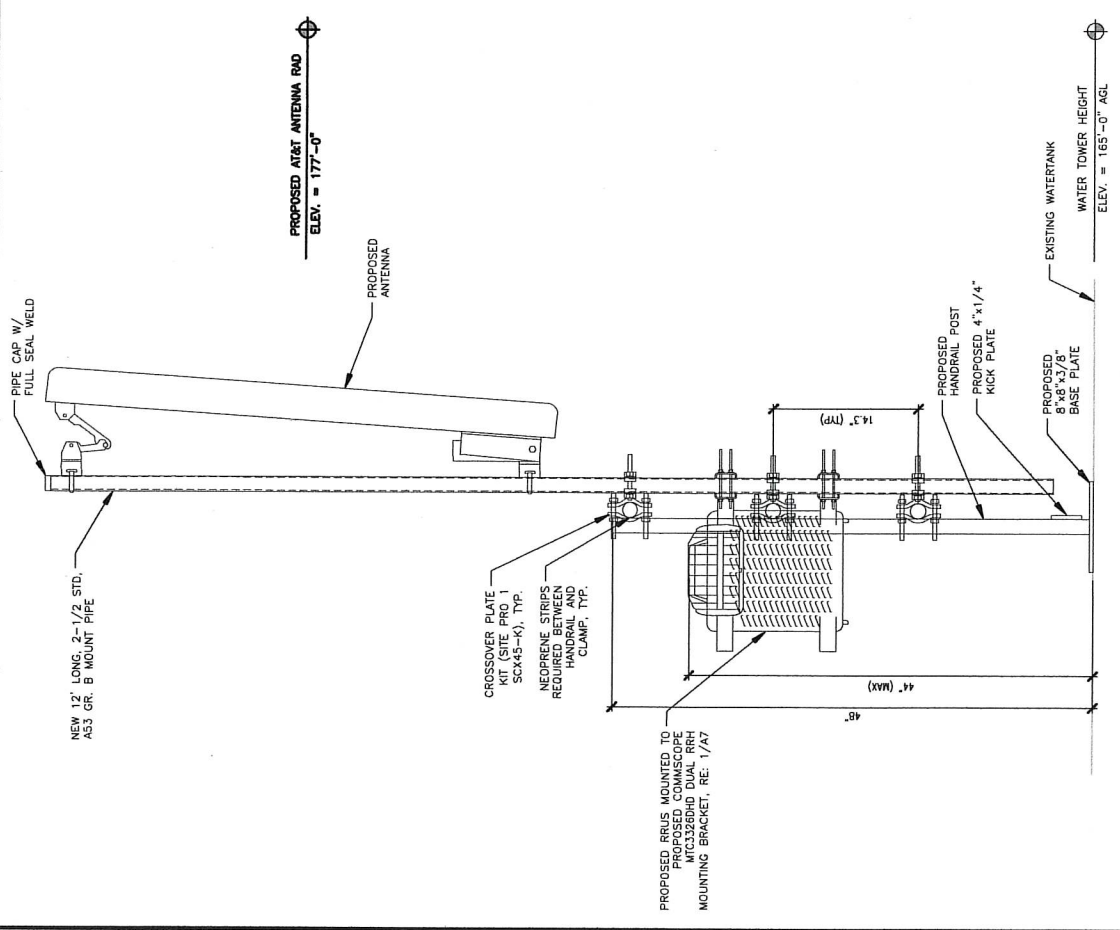
SHEET NUMBER
S1

NOTES

- ALL ATTACHMENTS TO PAINTED SURFACES ARE TO INCLUDE THE PLACEMENT OF NEOPRENE STRIPS BETWEEN HARDWARE AND POINTS OF CONTACT TO PREVENT DAMAGE TO THE PAINTED SURFACE. METAL SHIMS ARE REQUIRED TO BE USED TO PREVENT DAMAGE TO THE PAINTED SURFACE. WHERE POSSIBLE, EXPOSED NEOPRENE SHOULD BE WRAPPED WITH WHITE TAPE. FASTENING SEQUENCE SHOULD INCLUDE NYLON WASHERS BETWEEN THE PAINTED SURFACE AND THE GALVANIZED WASHER.
- PROPOSED ANTENNAS INSTALLED ON THE EXTERIOR OF THE WATER TOWER SHALL BE SHOP PAINTED TO MATCH THE COLOR OF THE WATER TOWER (VERIFY COLOR).
- PROPOSED MOUNTING PIPES ARE TO HAVE WELDED END CAPS. EXISTING MOUNTING PIPES ARE TO BE CAPPED AT BOTH ENDS WITH WHITE RUBBER CAPS.
- DRILLING HOLES IN EXISTING HANDRAIL IS NOT ACCEPTABLE. FOR A TUBULAR HANDRAIL, SEE RECOMMENDS USING VALMONT SCP-K PIPE TO PIPE CLAMP SET.
- ALL EXPOSED JUMPERS, COAX AND OTHER CABLES ARE TO BE PROVIDED WITH MANUFACTURED WHITE JACKETING OR TAPED WHITE.
- CONTRACTOR TO TOUCH UP PAINTING ON EXISTING ANTENNAS. SPOT REPAIRS MADE WITH BRUSH AND W/O FEATHERING AND SHOULD BE COMPLETELY ROLLED FOR UNIFORMITY.
- CONTRACTOR TO TOUCH UP EXISTING ANTENNA PIPE MASTS. DEFENDING UPON THEIR CONDITION (DAMAGED/FAILED), THE CITY MAY REQUEST REPLACEMENT.
- ALL ANTENNA FEED LINES, JUMPERS, COAX AND HYBRID CABLE CANNOT INTERFERE WITH TOP OF THE HANDRAIL AND MUST BE ROUTED AS SUCH THAT THEY COMPLY WITH OSHA REQUIREMENTS REGARDING HANDRAILS.
- THE INSTALLATION OF NEW EQUIPMENT WILL BE PLACED BEHIND THE ANTENNAS AND IN A MANNER THAT MAINTAINS THE HANDRAILS COMPLIANCE WITH CURRENT OSHA GUIDELINES FOR ACCESS.
- ALL ABANDONED ANTENNAS, COAXIAL CABLE AND DETACHABLE EQUIPMENT THAT IS NO LONGER USED ARE TO BE REMOVED DURING THE FINAL MIGRATION.
- ALL EQUIPMENT ON THE WATER TOWER IS TO BE TAGGED (IDENTIFIED) BY THE TENANT.



2 SURGE UNIT MOUNTING DETAIL (TYP.)
SCALE: N.T.S.



1 ANTENNA & RADIO MOUNTING DETAIL
SCALE: N.T.S.

NOTES

1. NEW HARDWARE SHALL BE PAINTED PER SEH REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING BRACKET LOCATIONS AND ORDER MATERIAL ACCORDINGLY.



330 NATIONAL PARKWAY
SCHMIDT, IL 60173



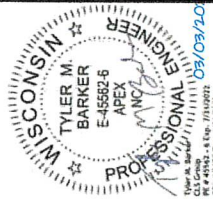
3414 JACOBSON ST.
WHEELER
CHICAGO, IL 60631
312.865.4077



319 CAMPBELL RD. SUITE 118
AUBURN, IL 62603
PH: (618) 248-3440 FAX: (618) 241-4825
CLS PROJECT ID:
24015-10080397-A4C-P2
CON# 2577 EXP: 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	ARD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	CM
O	03/03/21	FOR CONSTRUCTION	JT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

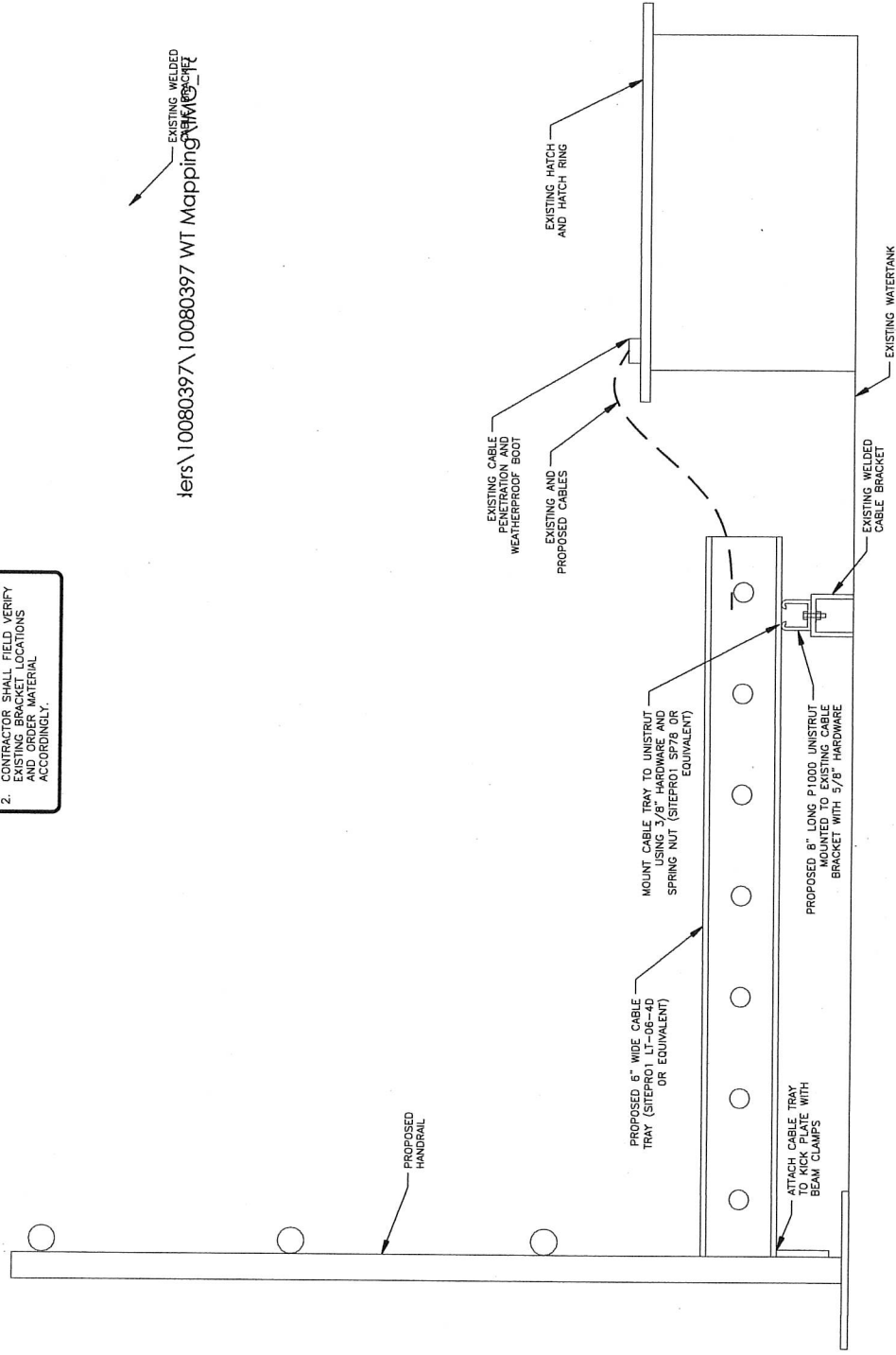


PE# 45582-6 EXP: 07/31/2022

WH1018
WEST ALLIS WATER
TOWER
FAC: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
STRUCTURAL DETAILS

SHEET NUMBER
S2



1 CABLE TRAY DETAIL
SCALE: N.T.S.



933 ARNDT PARKWAY
SCHWAUBURG, IL 60173



9401 WILSON ST
MILWAUKEE, WI 53215
312.885.4077



310 CAMPBELL RD, SUITE 118
PH: (408) 340-5460 FAX: (408) 341-4423
CLS PROJECT ID:
24015-1000397-A-E-P2
COM# 3577 EXP: 07/31/2022

REV.	DATE	DESCRIPTION	INITIALS
B	03/27/19	CLIENT COMMENTS	JTB
C	09/23/20	CLIENT COMMENTS	JTB
D	10/21/20	CLIENT COMMENTS	JTB
E	12/01/20	CLIENT COMMENTS	CM
F	03/03/21	FOR CONSTRUCTION	JTB

NOT FOR CONSTRUCTION UNLESS
Labeled as such in this sheet.

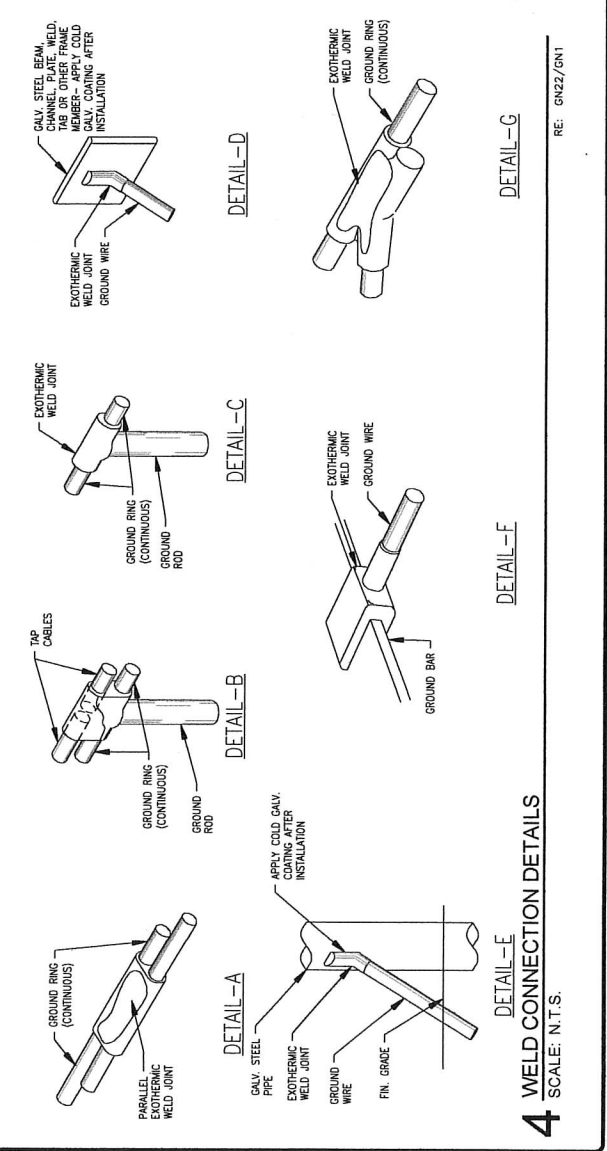
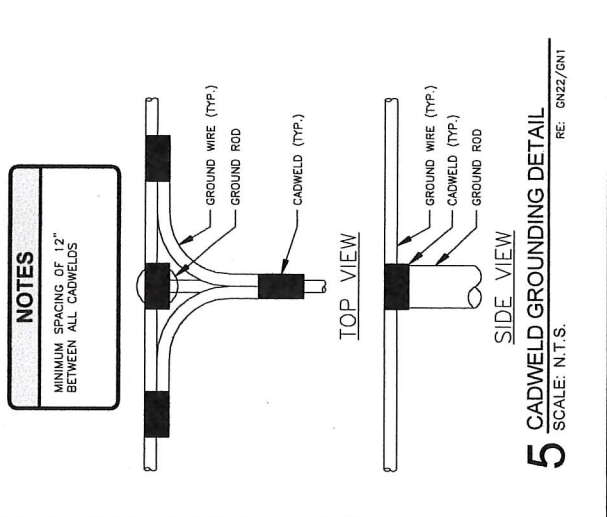
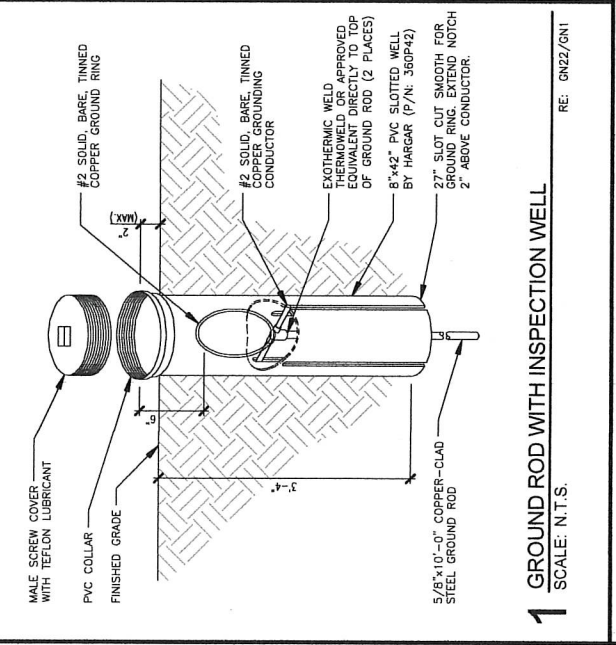
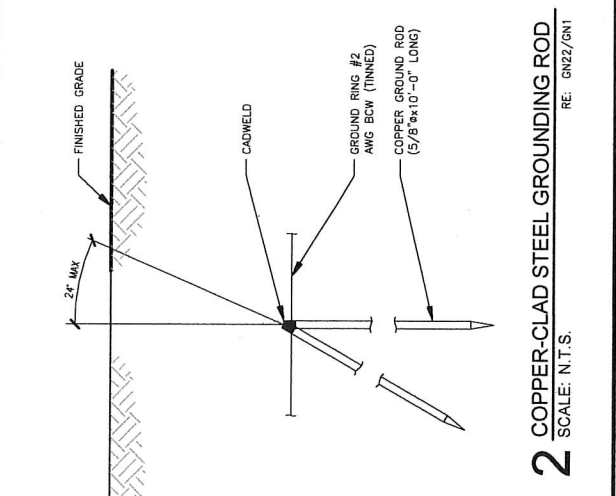
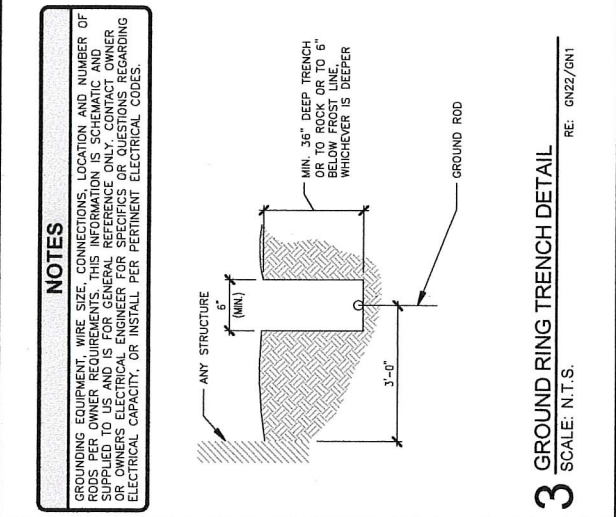


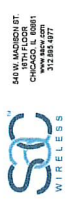
PE# 45562-6 EXP: 07/31/2022

W1018
WEST ALLIS WATER TOWER
FA# 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

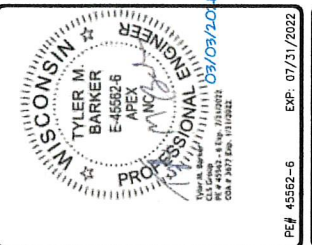
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G1





REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
B	08/27/19	CLIENT COMMENTS	JTD
C	09/23/20	CLIENT COMMENTS	JT
D	10/01/20	CLIENT COMMENTS	JT
E	12/09/20	CLIENT COMMENTS	DM
F	03/03/21	FOR CONSTRUCTION	JT



PE# 45582-6 EXP. 07/31/2022

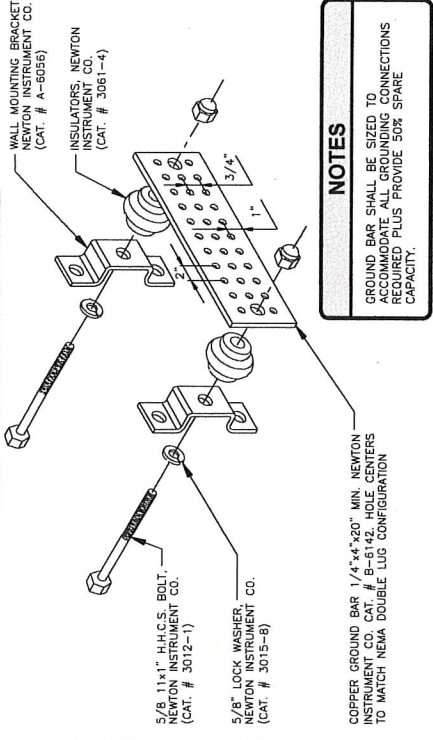
W1018
WEST ALLIS WATER TOWER
FA#: 10080397
11515 W ROGERS ST.
WEST ALLIS, WI 53227

SHEET TITLE
GROUNDING DETAILS

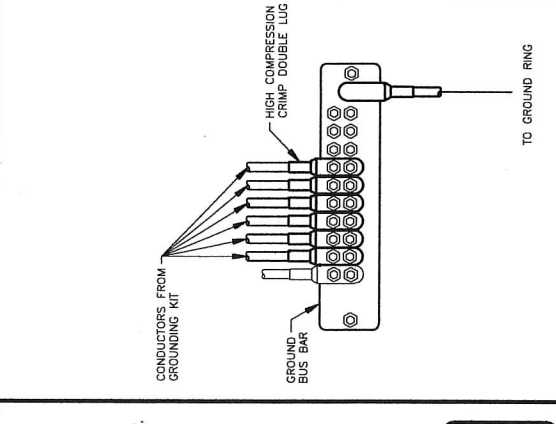
SHEET NUMBER
G2

NOTES

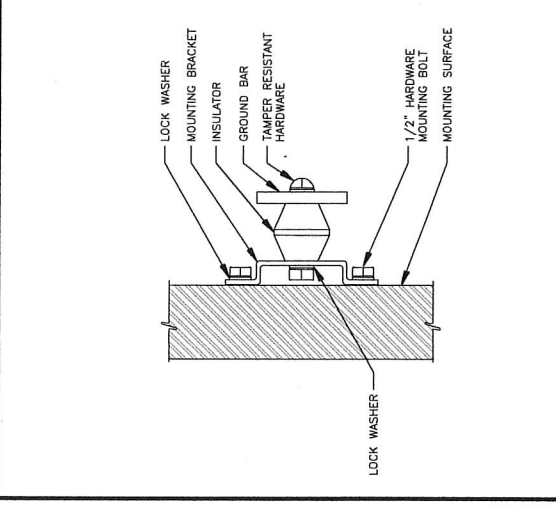
GROUNDING EQUIPMENT, WIRE SIZE, CONNECTIONS, LOCATION AND NUMBER OF RODS PER OWNER REQUIREMENTS. THE SUBMITTER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND IS FOR GENERAL REFERENCE ONLY. CONTACT OWNER OR OWNERS ELECTRICAL ENGINEER FOR SPECIFICS OR QUESTIONS REGARDING ELECTRICAL CAPACITY, OR INSTALL PER PERTINENT ELECTRICAL CODES.



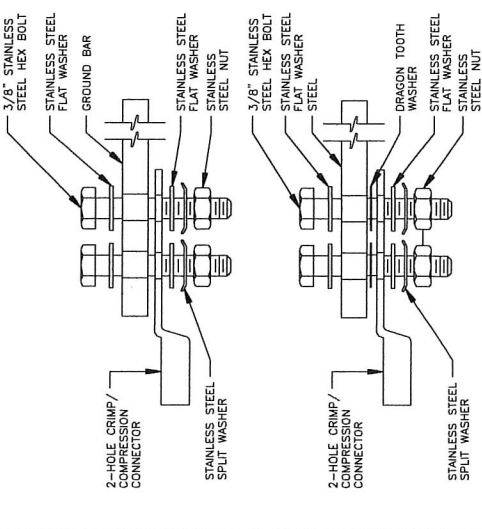
1 STANDARD GROUND BAR DETAIL
SCALE: N.T.S.



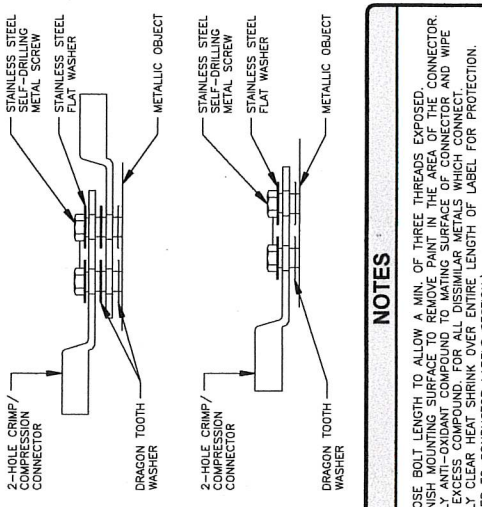
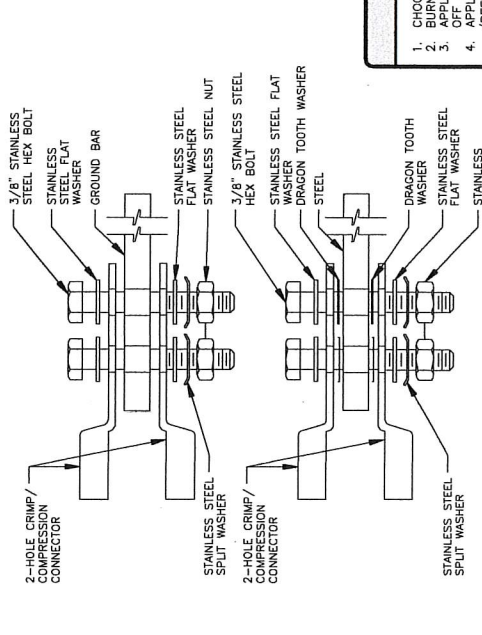
2 GROUND BAR DETAIL
SCALE: N.T.S.



3 ISOLATED GND BAR MOUNTING DETAIL
SCALE: N.T.S.



4 TYPICAL GROUND BAR CONNECTION DETAILS
SCALE: N.T.S.



NOTES

1. CHOOSE BOLT LENGTH TO ALLOW A MIN. OF THREE THREADS EXPOSED.
2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF THE CONNECTOR.
3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF CONNECTOR AND WIPE OFF EXCESS COMPOUND. FOR ALL DISSIMILAR METALS WHICH CONNECT.
4. APPLY CLEAR HEAT SHRINK OVER ENTIRE LENGTH OF LABEL FOR PROTECTION. (REFER TO CONDUCTOR LABELS SECTION.)

RE: GN22/GN1



930 NATIONAL PARKWAY
SCHAUENBURG, IL 60173

WEST ALLIS WATER TOWER

10080397 | W1018

5G NR

MRCHI049230

165'-0" WATER TOWER

WATER TOWER CORRAL REPLACEMENT

SITE NAME:

FA # | SITE ID:

PROJECT TYPE:

PAGE #:

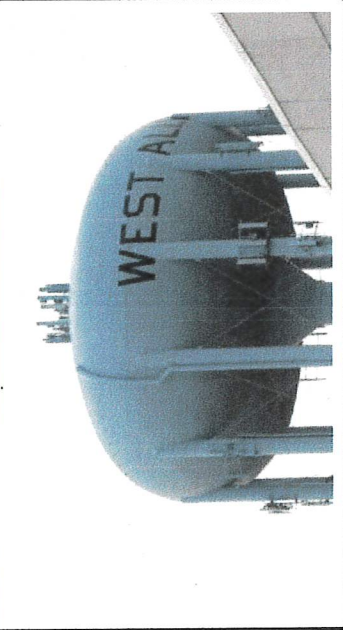
STRUCTURE TYPE:

PROJECT SCOPE:

LOCATION MAP



STRUCTURE ELEVATION PHOTOGRAPH



DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
T-1	TITLE SHEET & DRAWING INDEX	4
GN-1	STRUCTURAL NOTES	0
IN-1	MODIFICATION INSPECTION NOTES	0
S-1	CORRAL VIEWS & SCHEDULE	4
S-2	CORRAL DETAIL VIEWS	2
S-3	CORRAL MOUNTING VIEWS & SCHEDULE	4
S-4	MOUNTING DETAIL VIEWS	4
S-5	MOUNTING DETAIL VIEWS	2

SCOPE OF WORK

- THIS MODIFICATION PLAN HAS BEEN DESIGNED UTILIZING THE STRUCTURAL ANALYSIS BY CLS GROUP, REPORT #24015-10080397-05-MOD-R4, DATED FEBRUARY 28, 2021.
- FULL MODIFICATION SCHEDULE CAN BE FOUND ON S-1.
- CONTRACTOR SHALL SCHEDULE A SITE VISIT TO CONFIRMATE EXISTING REINFORCING DIMENSIONS, THE CLEARANCES OF THE PROPOSED REINFORCING, EXISTING FOUNDATION INFORMATION, EXISTING SITE UTILITIES, AND ALL OTHER INFORMATION NECESSARY TO ELIMINATE THE RISK OF RPT'S ONCE CONSTRUCTION AND FABRICATION HAVE BEGUN. THE CONTRACTOR SHALL NOT BEGIN FABRICATION OR CONSTRUCTION UNTIL AFTER THE SITE VISIT. THE CONTRACTOR SHALL PROVIDE THE SITE VISIT DRAWINGS AND ANY ADDITIONAL INFORMATION THE CONTRACTOR NEEDS TO PERFORM THE WORK.
- THE CONTRACTOR SHALL PERFORM THIS PRE-CONSTRUCTION WORK AND REPORT ALL DISCREPANCIES TO THE CUSTOMER AND THE ENGINEER OF RECORD OR BE LIABLE FOR THE LABOR & MATERIALS FOR DISCREPANCIES NOT CAUGHT BY THE CONTRACTOR'S DUE DILIGENCE SITE VISIT.

DRIVING DIRECTIONS

FROM GENERAL MITCHELL INTERNATIONAL AIRPORT:
TAKE W-119 W. (SIGNS FOR I-94 / MILWAUKEE / CHICAGO)
EXIT TOWARD I-94 W. CONTINUE ANOTHER 1.2 MILES AND
KEEP LEFT. FOLLOW SIGNS FOR I-43 S. CONTINUE FOR 1.0
MILES ONTO I-41 / I-43 S/I-894 W. TRAVEL FOR 4.6
MILES AND THEN KEEP RIGHT TO CONTINUE ON I-41 /
I-894 W. AND FOLLOW SIGNS FOR I-894 W. ON I-41 /
I-894 W. AND FOLLOW SIGNS FOR I-894 W. ON I-41 /
NATIONAL AVENUE AND TURN LEFT AT THE FIRST CROSS
STREET ONTO S 99TH ST. TURN LEFT AT THE FIRST CROSS
STREET ONTO W LINCOLN AVE. CONTINUE 0.5 MILES AND
TURN RIGHT ONTO S 100TH ST. CONTINUE FOR 0.4 MILES
UNTIL YOU REACH W RODGERS ST. THE SITE WILL BE IN
0.5 MILES ON THE LEFT.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS,
CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY
DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE
RESPONSIBLE FOR THE SAME.

PROJECT TEAM

ENGINEER/ARCHITECT:
CLS GROUP, INC.
319 CHAPANOKE ROAD, SUITE 118
RALEIGH, NC 27603
(405) 348-5460

OWNER SITE NAME:
WEST ALLIS WATER TOWER

OWNER SITE NUMBER:
N/A

APPLICANT/CUSTOMER:
APL PROPERTY
912 N. LINCOLN PARKWAY
SCHAUENBURG, IL 60173

PROJECT INFORMATION

STRUCTURE TYPE:	WATER TOWER
STRUCTURE HEIGHT:	165'-0"
LATITUDE:	43.09786 (NAD 83)
LONGITUDE:	-88.66608 (NAD 83)
ADDRESS:	W1018 - WEST ALLIS WATER TOWER 11516 W RODGERS STREET
COUNTY:	MILWAUKEE
CITY JURISDICTION:	CITY OF WEST ALLIS
GROUND ELEVATION:	745' AMSL

ONE CALL



319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405) 348-5460 FAX: (405) 348-5465
WWW.CLSGROUP.COM
COM 3077 EXP: 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
A	07/17/19	PRELIMINARY ISSUE	CND
0	07/22/19	FOR CONSTRUCTION	CND
1	11/21/19	REPORT CHANGE	CND
2	07/20/20	SCOPE CHANGE	CND
3	12/15/20	REPORT CHANGE	CND
4	02/28/21	CLIENT COMMENTS	CND

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET



PE# 45562-6 EXP: 07/31/2022

WEST ALLIS WATER TOWER
SITE NUMBER: W1018
FA LOCATION: 10080397
11515 W RODGERS STREET
WEST ALLIS, WI 53227

SHEET TITLE
DRAWING INDEX

SHEET NUMBER
T-1



REVISIONS			INITIALS
REV.	DATE	DESCRIPTION	
A	07/19/19	PRELIMINARY ISSUE	CND
B	07/23/19	FOR CONSTRUCTION	CND
1	11/21/19	SCOPE CHANGE	CND
2	07/20/20	SCOPE CHANGE	CND
3	12/15/20	REPORT CHANGE	CND
4	02/26/21	CLIENT COMMENTS	CND
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET			



PE# 45562-6 EXP: 07/31/2022

WEST ALL IS WATER TOWER

SITE NUMBER: WI1018
FA LOCATION: 10080397
11515 W RODGERS STREET
WEST ALIS, WI 53227

SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

1-NG

STANDARD ABBREVIATIONS

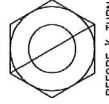
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BOLT TIGHTENING PROCEDURE

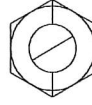
1. TIGHTEN BOLTS BY AISC TURN OF THE NUT METHOD USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS:	
+1/3 TURN BEYOND SNUG TIGHT	
BOLT LENGTHS OVER FOUR AND UP TO EIGHT DIAMETERS:	
+1/2 TURN BEYOND SNUG TIGHT	
BOLT LENGTHS OVER EIGHT AND UP TO TWELVE DIAMETERS:	
+2/3 TURN BEYOND SNUG TIGHT	
2. SPICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.6(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS AS FOLLOWS:

"FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.6(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION."



BEFORE & TURN



AFTER 1/2 TURN

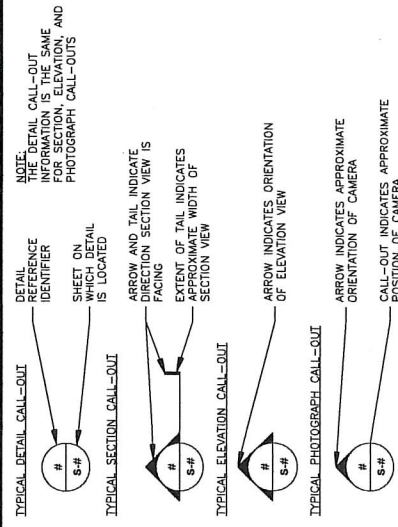
SECTION / ELEVATION / DETAIL VIEW CALLOUTS

TITLE VIEW TITLE SHEET(S) ON WHICH VIEW IS CALLED OUT
SCALE: 1/16" = 1'-0" S-XXX SCALE USED FOR THIS VIEW
DETAIL REFERENCE IDENTIFIER

CONTRACTOR NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, ALL CONTRACTORS AND SUBCONTRACTORS MUST ACKNOWLEDGE IN WRITING TO STRUCTURE OWNER THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW STRUCTURE OWNER STANDARDS OF PRACTICE, PROCEDURES, METHODS, MATERIALS, SPECIFICATIONS, AND INSTALLATION PROCEDURES USED ON ALL PROJECTS. LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, ANY PROPOSED MODIFICATIONS DESCRIBED, RECEIPT OF ACKNOWLEDGEMENT MUST OCCUR BEFORE THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CONTRACTOR TO PROVIDE THIS DOCUMENTATION FOR THE STRUCTURE OWNER ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM ANY SUBCONTRACTORS (GENERAL SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO THE STRUCTURE OWNER.
2. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REFLECTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE SIGNIFICANCE OF THE DEVIATION.
3. THE CONTRACTOR SHALL SOLICIT AND HIRE THE SERVICES OF A QUALIFIED MODIFICATION INSPECTOR PRIOR TO BEGINNING CONSTRUCTION. THE MODIFICATION INSPECTOR MAY BE AN EMPLOYEE OF THE CONTRACTOR'S FIRM, HOWEVER THE INSPECTOR'S ONLY DUTIES SHALL BE INSPECTION, TESTING, AND REPORT CREATION REGARDING THE MODIFICATIONS. THE MODIFICATION INSPECTOR SHALL BE QUALIFIED AS REGISTERED PROFESSIONAL ENGINEER (P.E.) OR REGISTERED PROFESSIONAL ENGINEER IN TRAINING (EIT) UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER (P.E.). IT IS ALSO ACCEPTABLE FOR THE CONTRACTOR TO SUB-CONTRACT THE MODIFICATION INSPECTOR DUTIES TO A THIRD PARTY FIRM MEETING THE ABOVE REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND TOWER OWNER OF THE SCHEDULE, WITHIN TWO BUSINESS DAYS OF THE COMPLETION OF THE CHANGES TO THE SCHEDULE OR SCHEDULE REVISION BOTH PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE START OF EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHEN PHASES OF CONSTRUCTION HAVE BEEN MOVED UP AND SHALL GIVE THE ENGINEER ADEQUATE NOTICE SO THAT THE ENGINEER DEFENDMENT, TO HIS DISCRETION, INSPECT PORTIONS OF THE WORK, THAT ARE DEEMED NECESSARY, TO VERIFY THE CORRECTNESS OF THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY THE ENGINEER OF RECORD AND THE STRUCTURE OWNER WHEN THE WORK IS ASSOCIATED MODIFICATION INSPECTIONS ARE COMPLETED.
5. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK PERFORMED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WHOSE OWNERS CONSTRUCTION EXPERIENCE THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE STRUCTURE OWNER AND ENGINEER INCLUDING BUT NOT LIMITED TO: LICENSED ELECTRICAL ENGINEER, LICENSED MECHANICAL ENGINEER, CERTIFICATES, CERTIFIED WELDING INSPECTOR CREDENTIALS, ET CETERA.
6. THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES.
7. CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE STRUCTURE OWNER'S PROPERTY OR LEASED AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMISSIONS FROM THE LAND OWNER. THE LAND EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. THE CONTRACTOR SHALL MAINTAIN SHADING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SYMBOLS AND CALL-OUTS



GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222, ASCE 7, AWS, AISC, AND AISC. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE-MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
2. ALL MATERIALS UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS.
3. ALL PRODUCT OR MATERIAL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER, INCLUDING SUBSTITUTION DATA SHEETS, PRODUCT DATA SHEETS, AND THE ORIGINAL DESIGN CRITERIA DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PREPARE STRUCTURAL STEEL SHOP DRAWINGS(S) TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
5. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS AND REINFORCING SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
6. ANY CONTRACTOR-CAUSED DAMAGE TO PROPERTY OF THE LAND OWNER, PROPERTY OF THE STRUCTURE OWNER, PROPERTY OF THE CUSTOMER, SITE FENCING OR GATES, ANY AND ALL EXISTING UTILITIES, OR ANY OTHER EXISTING STRUCTURES SHALL BE REPAIRED OR REPLACED AT THE SOLE COST OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR OR SUB-CONTRACTOR AS APPROVED BY THE ENGINEER OF RECORD. LAND OWNER DAMAGE TO EQUIPMENT OR PROPERTY OF ANY KIND CAUSED BY THE CONTRACTOR OR SUB-CONTRACTOR SHALL BE REPAIRED OR REPLACED AS ORDERED BY THE CONTRACTOR WITH THE COMPANIES THAT OWN THE DAMAGED ITEMS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 - A. STRUCTURAL STEEL SHAPES, PLATES AND BARS (EXCEPT W-SHAPES) – ASTM A36, Fy=36 KSI
 - B. PIPES – ASTM A53, GRADE B, Fy=35 KSI
 - C. HSS-SHAPES – ASTM A500, GRADE B, Fy=42 KSI (ROUND)
Fy=46 KSI (SQUARE & RECTANGULAR)
 - D. ANCHOR & ALL-THREAD RODS – ASTM F1554, GRADE 55
 - E. STRUCTURAL BOLTS 1/2" & LARGER – ASTM A325
 - F. STRUCTURAL BOLTS SMALLER THAN 1/2" – DIMENSIONS: ASME B18.2.1
MATERIAL: SAE J429 GRADE 5 | THREADING: ASME B1.1, UNC, CLASS 2A | FINISH: HOT-DIP GALVANIZED OR ZINC-PLATED
 - G. SHEET METAL SCREENS – DIMENSIONS: ASME B18.6.3
MATERIAL: SAE J933 | FINISH: HOT-DIP GALVANIZED OR ZINC-PLATED
 - H. NUTS FOR BOLTS/ALL-THREAD – ASTM A563 (WASHERS TO MATCH BOLT)
 - I. WASHERS FOR BOLTS/ALL-THREAD – ASTM F436
 - J. W & WT SHAPES – ASTM A36, Fy=36 KSI
ALTERNATE SPEC: ASTM A992 (IF OTHER SPEC IS UNAVAILABLE)

2. STRUCTURAL BOLTS SHALL CONFORM TO THIS NOTE. ALL BOLTS SHALL BE STANDARD SIZE BOLT, HOLTS PER AISC 360, UNLESS OTHERWISE NOTED. ALL HOLES SHALL BE SHOP DRILLED OR SUB-PUNCHED AND REAMED. BURNING OF HOLES IS NOT PERMITTED. WHERE PLATE OR OTHER MEMBER IS SPECIFIED ON THE DRAWINGS, EXCEPT WHERE ASTM A36 PLATE OR OTHER MEMBER IS SPECIFIED, THE THICKNESS OF THE MEMBER SHALL BE AVAILABLE TO COVER THE EXTENTS OF THE SLOT OR HOLE. BOLTS SHALL BE HEAVY-HEX WHERE AVAILABLE IN THE SIZE AND GRADE SPECIFIED, OTHERWISE BOLTS SHALL BE HEX HEAD CAP SCREWS.
3. ALL STEEL HARDWARE, INCLUDING ADHESIVE OR EMBEDDED ANCHOR BOLTS AND THEIR NUTS, SHALL BE OF THE SAME TYPE AND GRADE AS THE STEEL THEY ARE TO BE USED ON. BOLTS SMALLER THAN 1/2" SHALL CONFORM TO F1554, 1/2" TO F1554, 3/4" TO F1554, 1" TO F1554, 1 1/2" SHALL CONFORM TO F1554, 2" TO F1554, 2 1/2" TO F1554, 3" TO F1554, 3 1/2" TO F1554, 4" TO F1554, 4 1/2" TO F1554, 5" TO F1554, 5 1/2" TO F1554, 6" TO F1554, 6 1/2" TO F1554, 7" TO F1554, 7 1/2" TO F1554, 8" TO F1554, 8 1/2" TO F1554, 9" TO F1554, 9 1/2" TO F1554, 10" TO F1554, 10 1/2" TO F1554, 11" TO F1554, 11 1/2" TO F1554, 12" TO F1554, 12 1/2" TO F1554, 13" TO F1554, 13 1/2" TO F1554, 14" TO F1554, 14 1/2" TO F1554, 15" TO F1554, 15 1/2" TO F1554, 16" TO F1554, 16 1/2" TO F1554, 17" TO F1554, 17 1/2" TO F1554, 18" TO F1554, 18 1/2" TO F1554, 19" TO F1554, 19 1/2" TO F1554, 20" TO F1554, 20 1/2" TO F1554, 21" TO F1554, 21 1/2" TO F1554, 22" TO F1554, 22 1/2" TO F1554, 23" TO F1554, 23 1/2" TO F1554, 24" TO F1554, 24 1/2" TO F1554, 25" TO F1554, 25 1/2" TO F1554, 26" TO F1554, 26 1/2" TO F1554, 27" TO F1554, 27 1/2" TO F1554, 28" TO F1554, 28 1/2" TO F1554, 29" TO F1554, 29 1/2" TO F1554, 30" TO F1554, 30 1/2" TO F1554, 31" TO F1554, 31 1/2" TO F1554, 32" TO F1554, 32 1/2" TO F1554, 33" TO F1554, 33 1/2" TO F1554, 34" TO F1554, 34 1/2" TO F1554, 35" TO F1554, 35 1/2" TO F1554, 36" TO F1554, 36 1/2" TO F1554, 37" TO F1554, 37 1/2" TO F1554, 38" TO F1554, 38 1/2" TO F1554, 39" TO F1554, 39 1/2" TO F1554, 40" TO F1554, 40 1/2" TO F1554, 41" TO F1554, 41 1/2" TO F1554, 42" TO F1554, 42 1/2" TO F1554, 43" TO F1554, 43 1/2" TO F1554, 44" TO F1554, 44 1/2" TO F1554, 45" TO F1554, 45 1/2" TO F1554, 46" TO F1554, 46 1/2" TO F1554, 47" TO F1554, 47 1/2" TO F1554, 48" TO F1554, 48 1/2" TO F1554, 49" TO F1554, 49 1/2" TO F1554, 50" TO F1554, 50 1/2" TO F1554, 51" TO F1554, 51 1/2" TO F1554, 52" TO F1554, 52 1/2" TO F1554, 53" TO F1554, 53 1/2" TO F1554, 54" TO F1554, 54 1/2" TO F1554, 55" TO F1554, 55 1/2" TO F1554, 56" TO F1554, 56 1/2" TO F1554, 57" TO F1554, 57 1/2" TO F1554, 58" TO F1554, 58 1/2" TO F1554, 59" TO F1554, 59 1/2" TO F1554, 60" TO F1554, 60 1/2" TO F1554, 61" TO F1554, 61 1/2" TO F1554, 62" TO F1554, 62 1/2" TO F1554, 63" TO F1554, 63 1/2" TO F1554, 64" TO F1554, 64 1/2" TO F1554, 65" TO F1554, 65 1/2" TO F1554, 66" TO F1554, 66 1/2" TO F1554, 67" TO F1554, 67 1/2" TO F1554, 68" TO F1554, 68 1/2" TO F1554, 69" TO F1554, 69 1/2" TO F1554, 70" TO F1554, 70 1/2" TO F1554, 71" TO F1554, 71 1/2" TO F1554, 72" TO F1554, 72 1/2" TO F1554, 73" TO F1554, 73 1/2" TO F1554, 74" TO F1554, 74 1/2" TO F1554, 75" TO F1554, 75 1/2" TO F1554, 76" TO F1554, 76 1/2" TO F1554, 77" TO F1554, 77 1/2" TO F1554, 78" TO F1554, 78 1/2" TO F1554, 79" TO F1554, 79 1/2" TO F1554, 80" TO F1554, 80 1/2" TO F1554, 81" TO F1554, 81 1/2" TO F1554, 82" TO F1554, 82 1/2" TO F1554, 83" TO F1554, 83 1/2" TO F1554, 84" TO F1554, 84 1/2" TO F1554, 85" TO F1554, 85 1/2" TO F1554, 86" TO F1554, 86 1/2" TO F1554, 87" TO F1554, 87 1/2" TO F1554, 88" TO F1554, 88 1/2" TO F1554, 89" TO F1554, 89 1/2" TO F1554, 90" TO F1554, 90 1/2" TO F1554, 91" TO F1554, 91 1/2" TO F1554, 92" TO F1554, 92 1/2" TO F1554, 93" TO F1554, 93 1/2" TO F1554, 94" TO F1554, 94 1/2" TO F1554, 95" TO F1554, 95 1/2" TO F1554, 96" TO F1554, 96 1/2" TO F1554, 97" TO F1554, 97 1/2" TO F1554, 98" TO F1554, 98 1/2" TO F1554, 99" TO F1554, 99 1/2" TO F1554, 100" TO F1554, 100 1/2" TO F1554, 101" TO F1554, 101 1/2" TO F1554, 102" TO F1554, 102 1/2" TO F1554, 103" TO F1554, 103 1/2" TO F1554, 104" TO F1554, 104 1/2" TO F1554, 105" TO F1554, 105 1/2" TO F1554, 106" TO F1554, 106 1/2" TO F1554, 107" TO F1554, 107 1/2" TO F1554, 108" TO F1554, 108 1/2" TO F1554, 109" TO F1554, 109 1/2" TO F1554, 110" TO F1554, 110 1/2" TO F1554, 111" TO F1554, 111 1/2" TO F1554, 112" TO F1554, 112 1/2" TO F1554, 113" TO F1554, 113 1/2" TO F1554, 114" TO F1554, 114 1/2" TO F1554, 115" TO F1554, 115 1/2" TO F1554, 116" TO F1554, 116 1/2" TO F1554, 117" TO F1554, 117 1/2" TO F1554, 118" TO F1554, 118 1/2" TO F1554, 119" TO F1554, 119 1/2" TO F1554, 120" TO F1554, 120 1/2" TO F1554, 121" TO F1554, 121 1/2" TO F1554, 122" TO F1554, 122 1/2" TO F1554, 123" TO F1554, 123 1/2" TO F1554, 124" TO F1554, 124 1/2" TO F1554, 125" TO F1554, 125 1/2" TO F1554, 126" TO F1554, 126 1/2" TO F1554, 127" TO F1554, 127 1/2" TO F1554, 128" TO F1554, 128 1/2" TO F1554, 129" TO F1554, 129 1/2" TO F1554, 130" TO F1554, 130 1/2" TO F1554, 131" TO F1554, 131 1/2" TO F1554, 132" TO F1554, 132 1/2" TO F1554, 133" TO F1554, 133 1/2" TO F1554, 134" TO F1554, 134 1/2" TO F1554, 135" TO F1554, 135 1/2" TO F1554, 136" TO F1554, 136 1/2" TO F1554, 137" TO F1554, 137 1/2" TO F1554, 138" TO F1554, 138 1/2" TO F1554, 139" TO F1554, 139 1/2" TO F1554, 140" TO F1554, 140 1/2" TO F1554, 141" TO F1554, 141 1/2" TO F1554, 142" TO F1554, 142 1/2" TO F1554, 143" TO F1554, 143 1/2" TO F1554, 144" TO F1554, 144 1/2" TO F1554, 145" TO F1554, 145



POST-CONSTRUCTION INSPECTION CHECKLIST

POST-CONSTRUCTION INSPECTION CHECKLIST	
CONSTRUCTION AND/OR INSPECTION REPORTS REQUIRED FOR REPORTS (CHECK=YES, BLANK=NO)	INSPECTION REPORT ITEM
✓	MODIFICATION INSPECTOR'S ISSUE LIST (INCLUDING CORRECTIVE ACTIONS TAKEN AND/OR REDUNDANT RECORD DRAWINGS)
	POST-INSTALLED ADHESIVE ANCHOR ROD PULL-OUT TESTING
✓	PHOTOGRAPHS OF MODIFICATIONS (INCLUDE PHOTOS OF BOTH SIDES OF EXPOSED OR COVERED JOINTS, OVERLAP JOINTS, DETAIL VIEWS OF INSTALLED MODIFICATIONS, AND BEFORE/AFTER PHOTOS OF ANY ISSUES IDENTIFIED BY THE INSPECTOR)

REMEDICATION OF FAILING INSPECTION

1. IN THE EVENT THAT ANY PORTION OF THE MODIFICATION WORK IS DETERMINED TO BE NECESSARY BY THE MODIFICATION INSPECTOR, THE PRIME CONTRACTOR SHALL WORK WITH THE MODIFICATION INSPECTOR TO CREATE A PLAN OF ACTION THAT WILL EITHER:
 - 1.1. REPAIR THE DEFICIENT WORK TO SATISFACTORY CONDITION AND INCLUDE A SUBSEQUENT RE-INSPECTION OF THE WORK TO VERIFY THAT IT IS SATISFACTORY;
 - 1.2. OR, WITH THE PERMISSION OF THE STRUCTURAL ENGINEER/OWNER, THE PRIME CONTRACTOR SHALL REMOVE THE DEFICIENT PORTION OF THE MODIFICATION, REPAIR THE AS-BUILT CONDITION OF THE MODIFICATION TO DETERMINE IF IT IS STRUCTURALLY ACCEPTABLE. IF THIS ACTION IS NOT ACCEPTABLE TO ANY PARTY, THE PRIME CONTRACTOR SHALL PROCEED TO REPAIR THE DEFICIENT WORK TO A SATISFACTORY CONDITION.

OWNER INSPECTIONS

1. THE STRUCTURE OWNER MAY CONDUCT INSPECTIONS TO VERIFY THE QUALITY AND COMPLETENESS OF THE PREVIOUSLY COMPLETED MODIFICATION INSPECTION REPORTS FOR THE MODIFICATION INSTALLATION WORK.
2. INSPECTIONS MAY BE COMPLETED BY A 3RD-PARTY FIRM OF THE STRUCTURE OWNER'S CHOOSING AFTER A MODIFICATION PROJECT IS COMPLETED AND A PASSING MODIFICATION INSPECTION REPORT IS ISSUED.



REV.	DATE	DESCRIPTION	INITIALS
1	07/19/19	PRELIMINARY ISSUE	END
2	07/26/19	FOR CONSTRUCTION	END
3	11/21/19	REPORT CHANGE	END
4	07/20/20	REPORT CHANGE	END
5	12/13/20	REPORT CHANGE	END
6	02/26/21	CLIENT COMMENTS	END



PE# 45562-6 EXP. 07/31/2022

WEST ALLIS WATER TOWER
SITE NUMBER W1018
FA LOCATION 1080397
11515 W RODGERS STREET
WEST ALLIS, WI 53227

SHEET TITLE
CORRAL VIEWS
& SCHEDULE

SHEET NUMBER
S-1

CONSTRUCTION NOTES

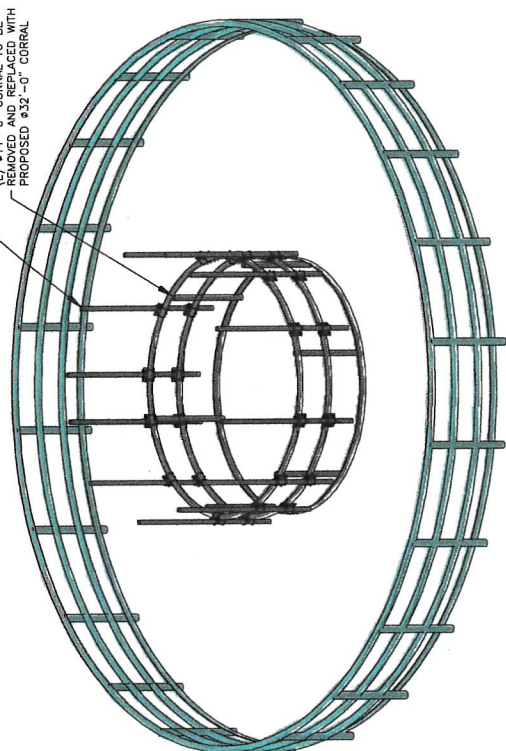
- SCOPE OF WORK MUST BE COMPLETED AT WIND SPEEDS < 20 MPH.
- ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHOULD FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF STEEL AND COMMENCEMENT OF WORK. FIELD CUT MEMBERS AS REQUIRED.
- ALL HARDWARE SHOULD BE INSTALLED WITH "TURN OF THE NUT" METHOD (RE: GN-1).

CORRAL SCHEDULE

LABEL	ELEVATION	SCOPE	MATERIAL	NOTES
1	±172'-6"	INSTALL (1) PROPOSED WATER TANK CORRAL MOUNT AS SPECIFIED.	PIPE 3 X-STRONG PL 1/4"x4" PL 3/8"x8"x0'-8"	S-1 S-2 S-3
2	±172'-6"	INSTALL (1) PROPOSED CORRAL POST BETWEEN RAILS USING (1) SITE PRO 1 DCP12K CROSSOVER CLAMP SET. ATTACH AT TOP AND BASE OF THE PROPOSED CORRAL POST USING 3/8"x9" x 0'-6" PLATES AND 5/8" x 6" LONG A325 BOLTS. SHIM AS REQUIRED. ATTACH (2) 3/4"x6"-1/2" x 1'-3/4" LONG A325X BOLTS FORMING A HINGE AT BASE. FIELD-CUT PROPOSED PIPE AS REQUIRED. NOTE: BEACON TP HEIGHT NOT TO EXCEED 187'-6".	PIPE 3-1/2 X-STRONG X 20'-0" LONG SITE PRO 1 DCP12K PL 1/4"x4" PL 3/8"x8"x0'-8" (4) 5/8" x 6" LONG A325 BOLTS (2) 3/4"x6"-1/2" x 1'-3/4" LONG A325X BOLTS	S-3 S-4 S-5
3	±172'-6"	INSTALL (4) 12'-0" LONG PIPE 2-1/2 STD. A33 GR. B. MOUNT PIPES AT EACH SECTOR OF PROPOSED CORRAL MOUNT (12 TOTAL). CONNECT MOUNT PIPES TO CROSSOVER CLAMP SETS WITH SITE PRO 1 SCX45-R CROSSOVER PLATE KITS OR EQUAL.	PIPE 2-1/2 STD X 12'-0" LONG SITE PRO 1 SCX45-K	S-3 S-5

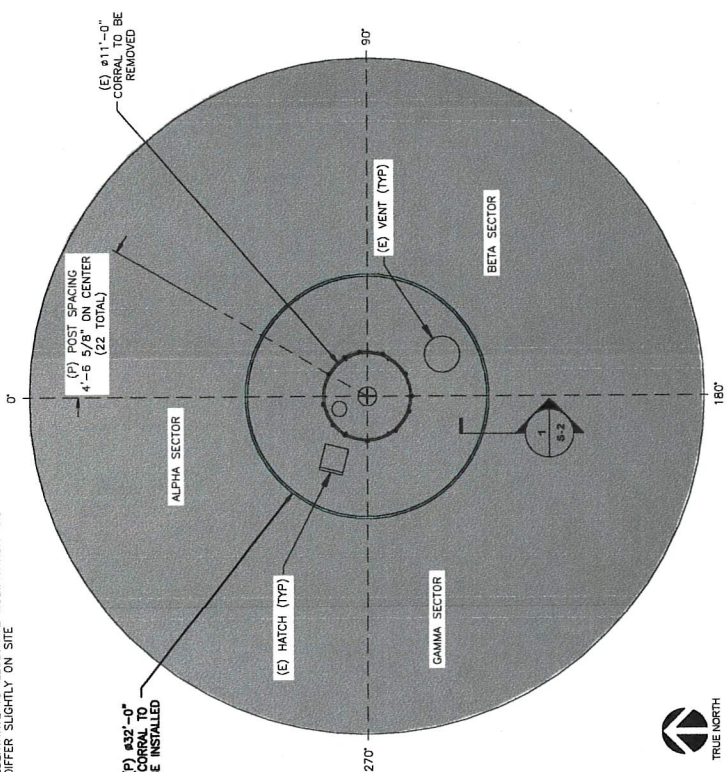
(E) ANTENNAS TO BE REMOVED AND INSTALLED ON PROPOSED CORRAL

(E) 911'-0" CORRAL TO BE REMOVED AND REPLACED WITH PROPOSED 932'-0" CORRAL

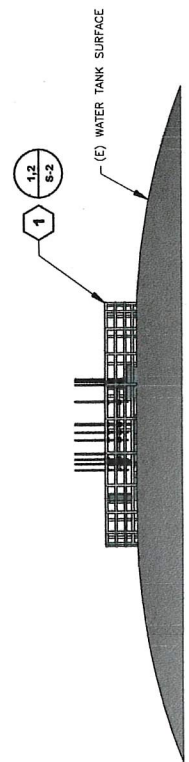


3 CORRAL - ISOMETRIC VIEW
SCALE: N.T.S.

NOTE:
EXISTING CORRAL AND WATER TANK SHOWN IS REPRESENTATIVE TO ILLUSTRATE MODIFICATION AND MAY DIFFER SLIGHTLY ON SITE



2 CORRAL - PLAN VIEW
SCALE: N.T.S.



1 CORRAL - FRONT ELEVATION VIEW
SCALE: N.T.S.



318 CAMPBELL RD, SUITE 118
WILSON, WI 53190
PH: (408) 546-5460 FAX: (408) 541-4625
TELAMON CLS PROJECT ID:
70000000000000000000000000000000
CON 3077 EXP. 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
A	07/19/19	PRELIMINARY ISSUE	CND
B	07/28/19	FOR CONSTRUCTION	CND
1	11/21/19	REPORT CHANGE	CND
2	07/20/20	SCOPE CHANGE	CND
3	12/15/20	REPORT CHANGE	CND
4	02/28/21	CLIENT COMMENTS	CND

NOT FOR CONSTRUCTION UNLESS
LABELLED AS CONSTRUCTION SET

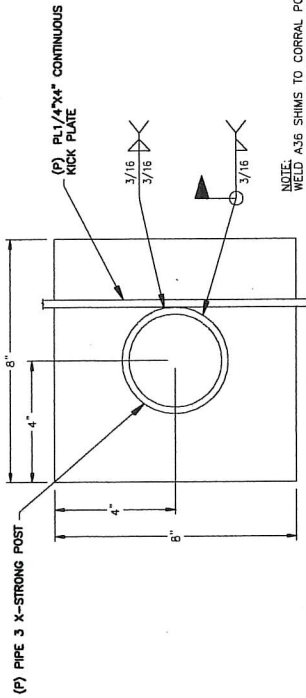


PE# 45552-6 EXP. 07/31/2022

WEST ALLIS WATER TOWER
SITE NUMBER W1018
FA LOCATION: 10880397
11515 W RODGERS STREET
WEST ALLIS, WI 53227

SHEET TITLE
CORRAL DETAIL
VIEWS

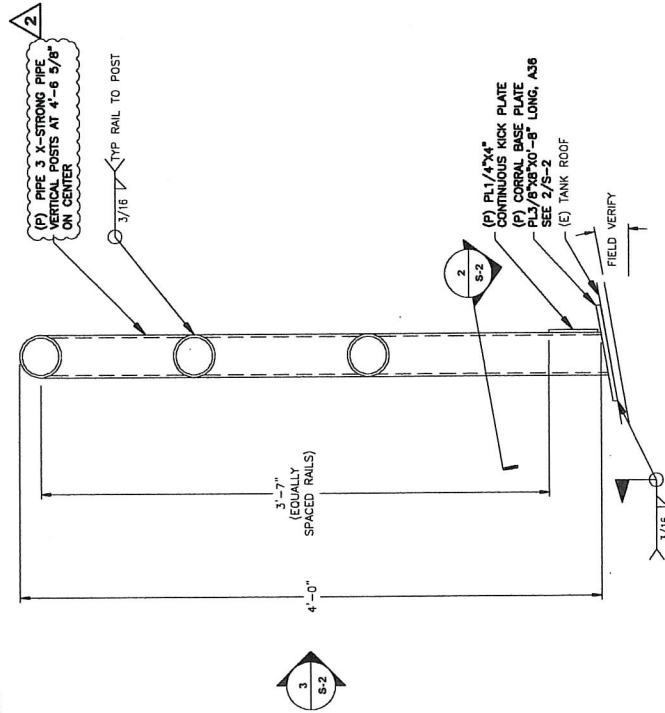
SHEET NUMBER
S-2



2 CORRAL BASEPLATE WELD DETAIL

SCALE: N.T.S.

NOTE:
FABRICATE CORRAL STRUCTURE ON THE
GROUND AND INSTALL ON BASE PLATES AS
A COMPLETE UNIT



1 PROPOSED CORRAL SECTION VIEW

SCALE: N.T.S.

3 PROPOSED CORRAL FRONT ELEVATION VIEW

SCALE: N.T.S.



315 CHAMBERS RD, SUITE 118
RALEIGH, NC 27603
PH: (408)445-5400 FAX: (408)441-4625
26015-1030397-A4E-P2
CON 3077 EXP: 01/31/2022

REV.	DATE	DESCRIPTION	INITIALS
0	07/16/19	PRELIMINARY ISSUE	CHD
1	07/26/19	FOR CONSTRUCTION	CHD
2	11/21/19	REPORT CHANGE	CHD
3	07/20/20	SCOPE CHANGE	AND
4	12/15/20	REPORT CHANGE	CHD
5	02/26/21	CLIENT COMMENTS	CHD

NOT FOR CONSTRUCTION UNLESS
LABELLED AS CONSTRUCTION SET

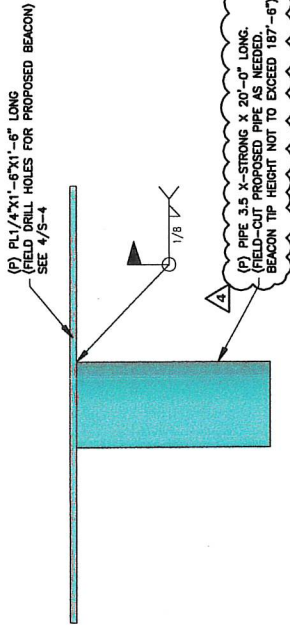


PE# 45562-6 EXP: 07/31/2022

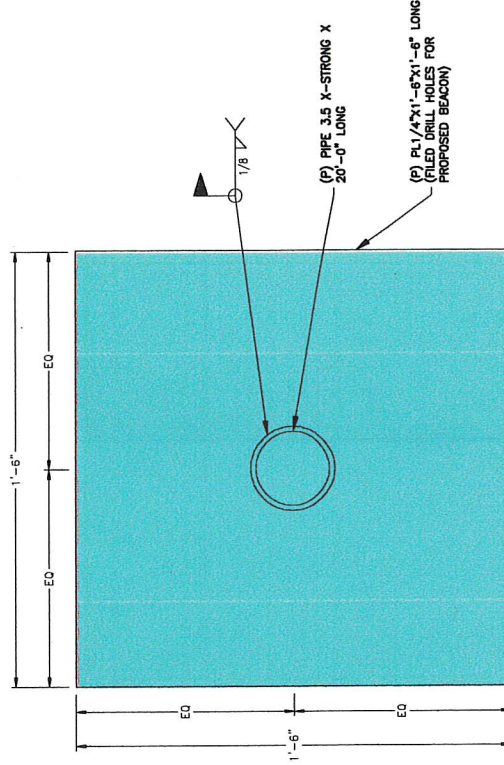
WEST ALLIS WATER TOWER
SITE NUMBER: W1018
FA LOCATION: 1080397
11515 W RODGERS STREET
WEST ALLIS, WI 53227

SHEET TITLE
2 MOUNTING
DETAIL VIEWS

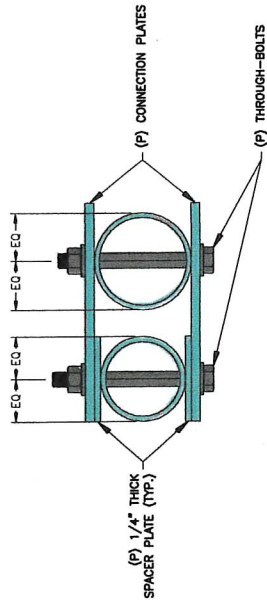
SHEET NUMBER
S-4



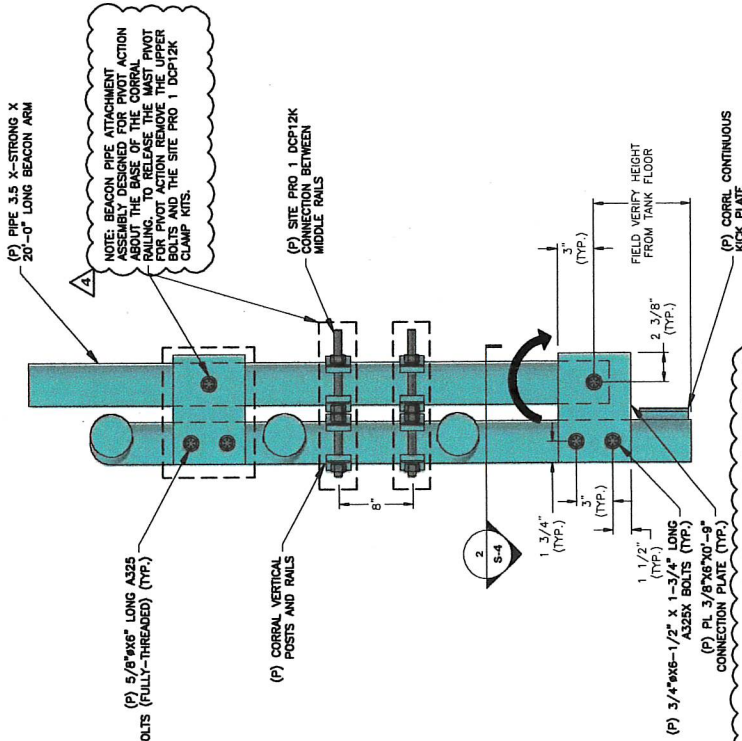
3 BEACON PIPE TOP MOUNT DETAIL - ELEVATION VIEW
SCALE: N.T.S.



4 BEACON PIPE TOP MOUNT DETAIL - PLAN VIEW
SCALE: N.T.S.



2 BEACON PIPE BOTTOM CONNECTION DETAIL
SCALE: N.T.S.



1 BEACON PIPE ATTACHMENT ASSEMBLY
SCALE: N.T.S.



315 CHANDLER RD, SUITE 118
RAILROAD, NC 27623
PH: (435) 334-4444 FAX: (435) 441-4655
TELAMON CLS INC. 401-401-2
24015-1000397-A4E-P2
CON 3077 EXP: 01/31/2022

REVISIONS			INITIALS
REV.	DATE	DESCRIPTION	INITIALS
A	07/19/18	PRELIMINARY ISSUE	CND
0	07/20/18	FOR CONSTRUCTION	CND
1	07/21/18	REPORT CHANGE	CND
2	07/27/18	SCOPE CHANGE	CND
3	12/15/18	REPORT CHANGE	CND
4	02/20/21	CURT COMMENTS	CND

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

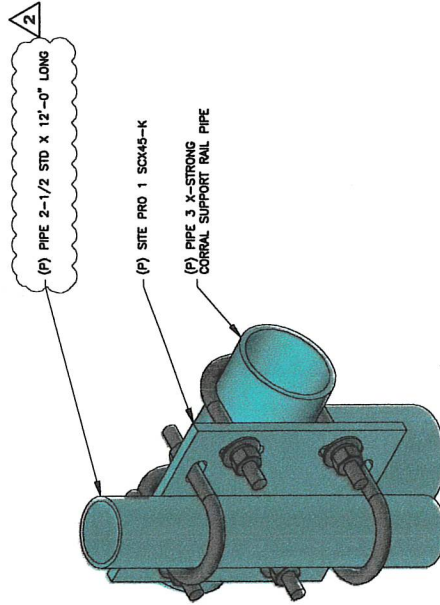


PE# 45562-6 EXP: 07/31/2022

WEST ALLIS WATER TOWER
SITE NUMBER: W1018
FA LOCATION: 10860397
11515 W RODGERS STREET
WEST ALLIS, WI 53227

SHEET TITLE
MOUNTING
DETAIL VIEWS

SHEET NUMBER
S-5



1 SITE PRO 1 SCX45-K
SCALE: N.T.S.

ATTACHMENT C-1
AS-BUILT DRAWINGS

(To be attached in accordance with Section 5.b. of this Third Amendment)

ATTACHMENT D

FORM OF ANTENNA SITE SERVICE NOTICE



Date Received by Water
Utility _____

ANTENNA SITE SERVICE NOTICE

West Allis Municipal Water Utility
6300 West McGeoch Ave.
West Allis, WI 53219
(414) 302-8245

Water Tower Site Name & Address: _____

Wireless Carrier: _____

Name of Service Company _____

1. Address: _____

2. Contact person for Carrier: _____ Telephone: _____

Mobile: _____ Email: _____

3. Technical Site Advisor : _____ Telephone: _____

Mobile: _____ Email: _____

4. Proposed Radio Band: _____

5. Propose Radio Frequency(s): _____

6. Type of Service Request (supply service ticket # if available) _____

7. List all personnel to be on site during service (attached copy of driver's license or US identification):

A. _____

B. _____

C. _____

D. _____

E. _____

F. Antenna equipment – Attach applicable specifications

G. Number of antennas _____

H. Number of zones _____

I. Antenna dimensions _____

- J. Antenna type, manufacturer & model no. _____
- K. Number of Radio Units _____
- L. Radio Unit dimensions _____
- M. Radio Unit type, manufacturer & model no. _____
- N. Transmission line or cable manufacturer & model no. _____
- O. Size of cables _____ Number of cables _____
- P. Antenna location on the tower: _____
(N, S, E, W, NE, etc. or specify the exact antenna azimuths)
- Q. GPS Antenna Y / N (Circle One)

If yes, provide Dimensions and Weight: _____

8. Dish equipment – Attach applicable specifications

- A. Number of dishes _____ Dish dimensions _____ Microwave Y / N (Circle One) Satellite Y / N (Circle One)
- B. Dish type, manufacturer & model no. _____
- C. Transmission line or cable manufacturer & model no. _____
- D. Size of cables _____ Number of cables _____
- E. Dish location on tower: _____

Initial here _____ to indicate specifications are attached.

9. Ground equipment – Attach applicable specifications

- A. Square feet required _____
- B. Inside Tower Y / N (Circle One) Inside Lessee building Y / N (Circle One) Outside Y / N (Circle One)
- C. Number of cabinets _____ Cabinet dimensions _____
- D. Number of air conditioners _____ Air conditioner description _____
- E. Generator on site Y / N (Circle One) If yes, provide type, size and where to be located. _____

- F. Isolator manufacturer & model no. _____
- G. Duplexer manufacturer & model no. _____
- H. Filters manufacturer & model no. _____

I. Controls used in addition to the transmitter/receiver cabinet(s) Y / N (Circle One)

If yes, how many? _____ Manufacturer & model no. _____

Initial here _____ to indicate specifications are attached

10. Desired date of operation: _____

11. Description of Scope of Work (Example: Diagnose and repair 3 radio head units; replace nonfunctioning antenna with same model)

[Signature Required Below]

Service Company Representative _____

Date: _____

Print Name _____