

**Memorandum  
Public Works Department**



**To:** City Manager  
**Subject:** Verizon Cellular Antenna Lease Agreement  
**Date:** December 1, 2015  
**Number:** 2015-239

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Verizon would like to install cellular antennas on the 24<sup>th</sup> Street 31<sup>st</sup> Avenue water tower.

The lease agreement has an initial term of five (5) years and will automatically renew for four (4) successive five (5) year renewal terms with the following fees:

- \$2,800 per month for the first year
- 4% annual increases
- \$1,000 landscaping fee per term (every 5 years)
- \$1,000 one-time administrative fee

**Recommendation**

The Public Works Department recommends that the City Council direct the City Manager to sign the attached the License Agreement with Verizon.

**Submitted by:** Randall D. Tweet, Public Works Director  
Michelle Martin, Assistant to the Public Works Director

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**Approved by:** Thomas Thomas, City Manager

## **SITE LICENSE AGREEMENT (Municipal Water Tower Attachments)**

THIS LICENSE AGREEMENT (the "License"), made this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by and between City of Rock Island, an Illinois Municipal Corporation ("Licensor") and GTE Wireless of the Midwest, Inc. d/b/a Verizon Wireless, an Indiana corporation ("Licensee").

### **1. License of Premises.**

Subject to the terms and conditions of this License and the provisions of Division 76 of Article 11 of the Illinois Municipal Code (65 ILCS 5/11-76), Licensor hereby licenses to Licensee on an exclusive basis a portion of the real property described on Exhibit A ("the Property") consisting of (a) a ground space area of approximately 55 square feet (5' x 11'), (b) space on the Licensor's structure (the "Tower") for the installation of antennas and related equipment, and the nonexclusive use of (c) such easements as are necessary for the initial installation, and for ingress and egress and the installation of utilities (collectively, the "Premises"), all as described and depicted on attached Exhibit E. The nature and the extent of the utility installation shall be specified on the site plan and attached as Exhibit E.

### **2. Term.**

- a. The initial term of this License shall be five (5) years (the "Initial Term"), commencing based on the date Licensee commences installation of its equipment on the Premises, or ninety (90) days from the day and year first written above, whichever first occurs. In the event the determinative date falls between the 1<sup>st</sup> and the 15<sup>th</sup> of the month, the License shall commence on the 1<sup>st</sup> day of that month, and if the determinative date falls between the 16<sup>th</sup> and 31<sup>st</sup> of the month, the License shall commence on the 1<sup>st</sup> day of the following month (either, the "Commencement Date"). Licensor and Licensee agree that they shall acknowledge the Commencement Date in writing, and further agree that the initial License Fee payment shall not actually be sent by Licensee until thirty (30) days after a written acknowledgement confirming the Commencement Date.
- b. This License shall be automatically renewed for four (4) successive five (5) year renewal terms ("Renewal Term(s)"), upon the same terms and conditions, unless Licensee notifies Licensor in writing of Licensee's intention not to renew this Agreement at least one hundred and twenty (120) days prior to the expiration of the existing term. The Initial Term and all Renewal Terms, if any, shall collectively be referred to herein as the "Term". Licensor may terminate this License at the end of the fifth (5<sup>th</sup>) year of the Term or in any subsequent year upon giving Licensee one hundred and twenty (120) days' prior written notice.

### **3. License Fees.**

- a. From and after the Commencement Date, Licensee shall pay Licensor Two Thousand Eight Hundred Dollars (\$2,800) per month (the "License Fee").
- b. The License Fee shall increase annually during the initial and Renewal Terms, on each anniversary of the Commencement Date, by an amount equal to four percent (4%) per annum above the amount of the License Fees in effect for the lease year immediately prior to such increase. The License Fees shall be payable in monthly installments, in advance, on the first day of the month, without demand, to Licensor, at Licensor's address specified in Paragraph 15 below or any other person or firm as Licensor may from time to time, designate in writing at least sixty (60) days in advance of any License Fees payment date.
- c. Within forty-five (45) days of the Commencement Date, and on the first day of each Renewal Term, if any, the Licensee will pay Licensor a One Thousand Dollar (\$1,000) landscaping fee to offset Licensor's cost of maintaining the Premises.
- d. Within forty-five (45) days after the Commencement Date, Licensee shall pay to Licensor a one-time non-refundable administrative fee in the amount of One Thousand Dollars (\$1,000) for the negotiation of this Lease.

- e. All fee payments must have the City of Rock Island lease number Verizon 24 ST 31 AV referenced on them in order to be processed.
- f. Notwithstanding anything to the contrary herein, Licensee shall have no obligation to make any rental or other payments to Licensor until Licensor has provided Licensee a complete and fully executed Internal Revenue Service Form W-9, in a form acceptable to Licensee.
- g. Within fifteen (15) days of obtaining an interest in the Property or this License, any assignee (s), transferee(s) or other successor(s) in interest of Licensor (any such entity, a "Successor Payee") shall provide to Licensee certain documentation (the "Rental Documentation") evidencing the Successor Payee's interest in, and right to receive payments under, this License, including without limitation: (i) documentation, acceptable to Licensee in Licensee's reasonable discretion, evidencing the Successor Payee's good and sufficient title to and/or interest in the Property and right to receive rental payments and other benefits hereunder; (ii) a complete and fully executed Internal Revenue Service Form W-9, or equivalent, in a form acceptable to Licensee, for any party to whom rental payments are to be made pursuant to this License; and (iii) other documentation requested by Licensee in Licensee's reasonable discretion. From time to time during the Term of this License and within thirty (30) days of a written request from Licensee, any Successor Payee shall provide updated Rental Documentation in a form reasonable acceptable to Licensee. Deliver of Rental Documentation to Licensee by any Successor Payee shall be a prerequisite for the payment of any rent by Licensee to such party and notwithstanding anything to the contrary herein, Licensee shall have no obligation to make any rental payments to any Successor Payee until Rental Documentation has been supplied to Licensee as provided herein.

#### **4. Use.**

The Premises may be used for (i) the transmission and reception of communications signals within or utilizing such frequency band or frequencies which are within those for which Licensee, or any entity which controls, is controlled by or is under common control with Licensee, is duly licensed by the Federal Communications Commission, and (ii) the attachment, installation, operation, alteration, maintenance, repair, replacement and relocation of any approved antennas and related equipment, cables and facilities and improvements related thereto, and (iii) activities related to any of the foregoing, provided such activities do not require an expansion of the Premises or violate Licensee's duties on non-interference set forth herein.

It is understood and agreed that Licensee's ability to use the Premises is contingent upon its obtaining after the execution date of this License all of the certificates, permits and other approvals (collectively the "Governmental Approvals") that may be required by any Federal, State or Local authorities as well as satisfactory soil boring tests and structural analysis which will permit Licensee use of the Premises as set forth above. Licensor shall cooperate with Licensee in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to the proposed use thereof by Licensee. In the event that (i) any of such applications for such Governmental Approvals should be finally rejected; (ii) any Governmental Approval issued to Licensee is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority; (iii) Licensee determines that such Governmental Approvals may not be obtained in a timely manner; (iv) Licensee determines that any soil boring tests or structural analysis is unsatisfactory; (v) Licensee determines that the Premises is no longer technically or structurally compatible for its use, or (vi) Licensee, in its sole discretion, determines that the use the Premises is obsolete or unnecessary, Licensee shall have the right to terminate this License. Upon such termination, this License shall be of no further force or effect except to the extent of the representations, warranties and indemnities made by each Party to the other hereunder.

LICENSOR AND LICENSEE AGREE THAT THE PRIMARY FUNCTION OF THE TOWER IS TO PROVIDE WATER SERVICE TO THE MUNICIPAL WATER CUSTOMERS. SHOULD THE LICENSOR DETERMINE, IN ITS SOLE DISCRETION, THAT THE PERFORMANCE OF THIS LICENSE INTERFERES WITH THAT PRIMARY FUNCTION, THE LICENSOR MAY TERMINATE THIS LICENSE WITH ONE HUNDRED TWENTY (120) DAYS WRITTEN NOTICE TO LICENSEE. LICENSEE SHALL HAVE THE RIGHT DURING SAID ONE HUNDRED TWENTY (120) DAY PERIOD TO CURE THE INTERFERENCE PROBLEM TO THE SATISFACTION OF THE LICENSOR; PROVIDED, HOWEVER, THAT IF SAID CURE IS NOT ACHIEVED IN THE SOLE JUDGEMENT OF THE LICENSOR, LICENSEE MUST HAVE COMPLETELY VACATED THE TOWER BY THE EXPIRATION OF

SAID ONE HUNDRED TWENTY (120) DAY PERIOD. IF LICENSEE DETERMINES, IN ITS SOLE JUDGEMENT, THAT THE OPERATION OF THE TOWER BY LICENSOR IS CREATING INTERFERENCE WITH LICENSEE'S USE AND OPERATION OF ITS FACILITIES AT THE TOWER, LICENSEE MAY TERMINATE THIS AGREEMENT BY GIVING THE LICENSOR ONE HUNDRED TWENTY (120) DAYS WRITTEN NOTICE. LICENSEE'S RIGHT TO TERMINATE THIS LICENSE IS SUBJECT TO ALL OF THE TERMS HEREOF REGARDING LICENSEE'S OBLIGATION TO REMOVE EQUIPMENT AND BUILDING AT THE EXPIRATION OR TERMINATION OF THIS LICENSE.

## **5 Installation and Maintenance.**

Licensee shall install, construct and maintain the antenna facilities on the Premises at its sole cost and expense in compliance with approved plans attached hereto as Exhibit E, and the installation and maintenance criteria listed on the attached Exhibit D.

## **6. Access.**

Licensee and its authorized employees, engineers, technicians, or properly authorized contractors of Licensee or personnel under their direct supervision shall be entitled to twenty-four (24) hour, seven (7) days per week access to the Premises. All access to the Premises by Licensee shall be subject in each instance to the reasonable security requirements and reasonable rules and regulations from time to time in effect at the Property, of which Licensor shall inform Licensee in writing. (Please see attached Exhibit B.) Licensor shall provide Licensee thirty (30) days prior written notice of any revisions to such rules and regulations. Notwithstanding Exhibit B, Licensee shall have unrestricted access to its ground-based equipment in the event of an emergency, which shall be determined in Licensee's reasonable discretion. Notwithstanding the foregoing, in the event Licensee requires or requests Licensor or Licensor's representative to be present in order for Licensee to gain access to the Premises outside of Licensor's normal business hours, Licensee will be responsible for any reasonable out-of-pocket costs incurred by Licensor in providing such access to the Premises.

## **7. Interference.**

Licensee further agrees that it will supply Licensor with a twenty-four (24) hour contact phone number, so that in the event that the Licensee's equipment interferes with the normal and proper operation of Licensor's and/or any prior lessee's facilities on the Property, the Licensee be notified. Licensee agrees to install and operate only equipment that does not cause interference to Licensor's or other lessees or licensees of the Property ("Pre-Existing User"); provided that their installations and use predate that of the Licensee's installation. In the event that the Licensee's equipment cause such interference or any permitted subsequent modification or addition causes such interference, Licensee shall take all commercially reasonable steps necessary to correct and eliminate the interference. If the interference is substantial in Licensor's reasonable discretion, then Licensee shall have five (5) days from receipt of Licensor's written notice to resolve the interference problem. If the interference is substantial and cannot be resolved within five (5) days, Licensee shall power down its equipment and/or cease operations in order to correct and eliminate such interference provided that Licensee may operate its equipment intermittently during off-peak hours for testing purposes only. If the interference is not substantial, Licensee shall work diligently and take all necessary and appropriate action to cure such interference as promptly as possible without having to power down its equipment unless the interference becomes substantial. Regardless of the length of time necessary to cure such interference, Licensee shall not be in default of this provision as long as (a) the interference is not substantial or (b) Licensee remains powered down (except for intermittent testing) while addressing substantial interference. If Licensee determines that it is unable to cure any substantial interference within a period of thirty (30) days, Licensee may, at its sole option, terminate this License. Licensor agrees not to allow any lessee of the Property whose equipment is installed or modified subsequent to Licensee's then current operation of Licensee's equipment ("Subsequent User") to interfere with the operation of Licensee. In the event Licensee is subject to any such interference, Licensor shall (or shall cause other Subsequent Users) take all steps reasonably necessary to correct and eliminate the interference. If such interference is not eliminated within five (5) days after Licensor's receipt of notice of such interference from Licensee, Licensor shall (or shall cause such other Subsequent User) to cease operations until the interference is eliminated. If such Subsequent User is unable to eliminate the interference, or reduce it to a level acceptable to Licensee, within a period of thirty (30) days, then

Licensee may, in addition to any other rights it may have, terminate this License. Nothing in this section shall be deemed or interpreted to authorize Licensee to illegally transmit on any frequencies or to provide any protection to

Licensee from interference from any other person in the event that Licensee is operating on any unlicensed frequency spectrum. Licensor shall impose upon future lessees of the Property a similar duty to refrain from interfering with Licensee.

**Notwithstanding the provisions contained herein, if Licensee's equipment interferes with Licensor's 911 System, Non emergency radio system, or Fire Rescue Emergency Radio Systems, Licensee shall either cure such interference or shut down its equipment immediately upon receipt of telephonic notice from Licensor, but in no event later than two (2) hours from receipt of notice of such interference, and if Licensee fails to take such action, Licensor may shut down Licensee's equipment and Licensee shall have no recourse against Licensor as a result of such action. The Parties acknowledge that such action would constitute drastic action, and Licensor represents that it will exercise its rights under this paragraph only when necessary and as a last resort.**

**Contact numbers:**

**Verizon Wireless NOC**

**1-800-264-6620**

## **8 Assignment.**

Licensee will have the right to assign, sell or transfer its interest under this License without the approval or consent of Licensor, to the Licensee's principal, affiliates, subsidiaries, subsidiaries of its principal, or to any entity which acquires all or substantially all of Licensee's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization. Upon notification to Licensor of such assignment, Licensee will be relieved of all future performance, liabilities and obligations under this License As to other parties, this License may not be sold, assigned or transferred without the written consent of the Licensor, which consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of Licensee or transfer upon partnership or corporate dissolution of Licensee shall constitute an assignment hereunder.

## **9 Taxes and Assessments.**

Upon presentation of sufficient and proper documentation, Licensee shall pay any and all increased ad valorem and personal property taxes, assessments, charges, or fees levied upon the Property and the Premises as a result of Licensee's use thereof. Notwithstanding the foregoing, Licensee shall not have the obligation to pay any tax, assessment, or charge that Licensee is disputing in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed provided that no lien attaches to the Premises. Nothing in this Paragraph shall be construed as making Licensee liable for any portion of Licensor's income taxes in connection with any Property or otherwise. Licensee shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which Licensee is wholly or partly responsible for payment. Licensor shall reasonably cooperate with Licensee at Licensee's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence. In the event that as a result of any appeal or challenge by Licensee, there is a reduction, credit or repayment received by the Licensor for any taxes previously paid by Licensee, Licensor agrees to promptly reimburse to Licensee the amount of said reduction, credit or repayment.

## **10. Insurance.**

Licensee shall, at Licensee's sole cost and expense, procure and continue in force during the Initial Term of this License, and any Renewal Term, the Insurance Policies listed on Exhibit C hereto with the policy limits stated thereon.

## **11. Release and Hold Harmless.**

- a. Licensee hereby releases Licensor, and their respective agents, employees, officers, directors, shareholders and partners (collectively the "Releasees") from, and shall not hold Releasees liable for, any liability for personal injury, consequential damages, loss of income or damage to or loss of property or persons, or loss or use of any property in or about the Premises from any cause whatsoever unless

such damage, loss or injury results from the negligence or willful misconduct of the Releasees.

- b.** Further, the Releasees shall not be liable to Licensee for any such damage or loss to the extent Licensee is compensated or would have been compensated by the insurance which Licensee is obligated to maintain pursuant to Section 10. Licensee agrees to indemnify, defend and hold Releasees harmless from and against injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) which may arise or be imposed upon or incurred by or asserted against Releasees occurring during the term of this License, or during any period of time when Licensee is conducting business activity on the Premises pursuant to this Agreement, whether before the Commencement Date hereof or after the expiration date hereof, arising from:
- (i) any work or act done in, on or about the Premises or any part thereof, including the installation, use, maintenance, repair or removal of the antenna facilities, at the direction of Licensee, its agents, contractors, subcontractors, servants, employees, Licensees invitees, except if such work or act is done or performed by Licensor or its agents or employee;
  - (i) any negligence or other wrongful act or omission on the part of Licensee or any of its agents, contractors, subcontractors, servants, employees, subtenants, invitees, or Licensees;
  - (ii) any accident, injury or damage to any person or property occurring in, on or about the Premises or any part thereof, unless caused by the negligence or willful misconduct of Licensor, its employees or agents; and
  - (iii) any failure on the part of Licensee to perform or comply with any of the covenants, Licenses, terms, provisions, conditions or limitations contained in this License on its part to be performed or complied with.
- c.** Licensor agrees to indemnify, defend and hold Licensee harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising from any willful act or omission or the negligence of Licensor or its employees or agents, or the breach of this Agreement, except to the extent attributable to the negligence or intentional act or omission of Licensee and except to the extent that the licensor would be immune under the Illinois Municipal Tort Immunity Act, its employees, agents or independent contractors.

## **12. Removal of the Equipment Upon Termination.**

Following any termination or expiration of this License, Licensee shall remove all of its equipment. Footings, foundations, and concrete will be removed to a depth of one (1) foot below grade. In performing such removal, Licensee shall restore the Premises and any personal property and fixtures thereon to as good a condition as they were prior to the installation or placement of the equipment, reasonable wear and tear excepted. If Licensee fails to remove such equipment within sixty (60) days after expiration or earlier termination of this License, Licensor may, upon thirty (30) days prior written notice to Licensee, remove and dispose of the equipment and Licensee shall reimburse Licensor for the costs of such removal and restoration of the Premises.

## **13. Hazardous Substances.**

Licensee agrees that it will not use, generate, store or dispose of any Hazardous Material on, under, about or within the Premises in violation of any law or regulation. Licensor represents, warrants and agrees (1) that to Licensor's best knowledge, neither Licensor nor any third party has used, generated, stored or disposed of, or permitted the use, generation, storage or disposal of, any Hazardous Material on, under, about or within the Premises in violation of any law or regulation, except as disclosed herein, and (2) that Licensor will not, and will not permit any third party to use, generate, store or dispose of any Hazardous Material on, under, about or within the Premises in violation of any law or regulation. Licensor and Licensee each agree to defend, indemnify and hold harmless the other and the other's partners, affiliates, agents and employees against any and all losses, liabilities, claims and/or costs arising from any breach of any representation, warranty or License contained in this paragraph. In addition, Licensor shall defend, indemnify and hold harmless Licensee from all other losses, liabilities, claims and/or costs arising from or

related to the environmental condition, including costs of remediation, which are not the result of any act of Licensee. As used in this paragraph, "Hazardous Material" shall mean hazardous or radioactive material, polychlorinated biphenyls, friable asbestos or other hazardous or medical waste substances as defined by the Comprehensive Environmental Response, Compensation and Liability Act, as amended, or by any other federal, state or local law, statute, rule, regulation or order (including any Governmental Requirements) concerning environmental matters, or any matter which would trigger any employee or community "right-to-know" requirements adopted by any such body, or for which any such body has adopted any requirements for the preparation or distribution of a material safety data sheet. This paragraph shall survive the termination of this License.

**14. Termination by Licensee.**

Provided Licensee is not in default hereunder, Licensee shall have the right to terminate this License without cause by giving Licensor at least one hundred and eighty (180) days prior written notice and Licensee shall not be required to make any further payment of License Fees.

**15. Utilities.**

Licensee shall contract directly with the local utility company to install a separate utility meter(s) for its utility service(s) and Licensee shall pay all costs related to such installation(s) and utility service(s). The utility meter(s) will be required to use remote read technology at the cost of the licensee.

**16. Notices.**

All notices, demands, requests and other communications hereunder shall be in writing either personally delivered or mailed, via certified mail, return receipt requested, or sent by overnight courier to the following addresses:

If to Licensor, to:

City of Rock Island  
ATTN: City Manager  
1528 Third Avenue  
Rock Island, IL 61201

With a copy to:

City of Rock Island  
Public Works Department  
c/o Public Works Administration  
1309 Mill Street  
Rock Island, IL 61201

If to the Licensee, to:

GTE Wireless of the Midwest, Inc.  
d/b/a Verizon Wireless  
180 Washington Valley Road  
Bedminster, NJ 07921  
Attn: Network Real Estate

Notices will be deemed to have been given upon either receipt or rejection. Unless or until either of the respective addresses is changed by 30 days advance notice in writing sent to the other party as set forth above, thereafter to the address contained in such notice. Any notice herein, which is required by Licensor, may be given by City's designated Manager and shall be deemed effective for all purposes herein.

#### **17. Marking and Lighting Requirements.**

Licensee shall construct, install and maintain the antenna facilities at the Premises in compliance with all applicable marking and lighting requirements of the Federal Aviation Administration ("FAA") and the Federal Communications Commissions ("FCC"). Licensee shall hold harmless Licensor against any penalty or citation resulting from Licensee's failure to maintain required lighting of its equipment, unless such failure is the result of Licensor's negligence or willful misconduct.

#### **18. Default and Right to Cure.**

The following will be deemed a default by Licensee and a breach of this License: (i) non-payment of the License Fee if such License Fee remains unpaid for more than thirty (30) days after receipt of written notice from Licensor of such failure to pay; or (ii) either party's failure to perform any other term or condition under this License within forty-five (45) days after receipt of written notice from the non-defaulting party specifying the failure, provided the defaulting party shall have such extended period as may be required beyond the forty-five (45) days if the nature of the cure is such that it reasonably requires more than forty-five (45) days and the defaulting party commences the cure within the forty-five (45) day period and thereafter continuously and diligently pursues the cure to completion. Notwithstanding the foregoing to the contrary, it shall be a default under this License if Licensor fails, within five (5) days after receipt of written notice of such breach, to perform an obligation required to be performed by Licensor if the failure to perform such an obligation interferes with Licensee's ability to conduct its business on the Property; provided, however, that if the nature of Licensor's obligation is such that more than five (5) days after such notice is reasonably required for its performance, then it shall not be a default under this License if performance is commenced within such five (5) day period and thereafter diligently pursued to completion. If the defaulting party remains in default beyond any applicable cure period, the non-defaulting party will have the right to exercise any and all rights and remedies available to it under law and equity.

#### **19. Warranties.**

Licensee and Licensor each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this License and bind itself hereto through the party set forth as signatory for the party below.

Licensor represents and warrants that: (i) Licensor solely owns the Property as a legal lot in fee simple, or controls the Property and structure by lease or license; (ii) the Property is not encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Licensee's permitted use and enjoyment of the Premises under this License; (iii) as long as Licensee is not in default then Licensor grants to Licensee actual, quiet and peaceful use, enjoyment and possession of the Premises; (iv) Licensor's execution and performance of this License will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on the Licensor; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Licensor will use best efforts to provide promptly to Licensee a mutually agreeable Subordination, Non-Disturbance and Attornment Agreement.

#### **20. Condemnation.**

In the event Licensor receives notification of any condemnation proceedings affecting the Property, Licensor will provide notice of the proceeding to Licensee within forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Licensee's reasonable determination, to render the Premises unsuitable for Licensee, this License will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Licensee will include, where applicable, the value of its Communication Facility, moving expenses, prepaid License Fees, and business dislocation expenses, provided that any award to Licensee will not diminish Licensor's recovery. Licensee will be entitled to reimbursement for any prepaid License Fee on a prorata basis. If Licensee does not terminate this License in accordance with the foregoing, this License shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the same proportion as the rentable area of the Premises taken bears to the total rentable area of the Premises.

## **21. Casualty.**

Licensor will provide notice to Licensee of any casualty affecting the Property within forty-eight (48) hours of the casualty. If any part of the antenna facilities or Property is damaged by fire or other casualty so as to render the Premises unsuitable, in Licensee's sole determination, then Licensee may terminate this License by providing written notice to the Licensor, which termination will be effective as of the date of such damage or destruction. Upon such termination, Licensee will be entitled to collect all insurance proceeds payable to Licensee on account thereof and to be reimbursed for any prepaid License Fee on a prorata basis to the end of the term. In the event this License is not terminated following a casualty event, Licensor shall promptly repair and restore the Tower and the License Fee shall abate during the period of repair in proportion to the degree to which the Licensee's use of the Premises is impaired.

## **22. Waiver of Licensor's Liens.**

Licensor waives any and all lien rights it may have, statutory or otherwise, concerning the antenna facilities or any portion thereof. The antenna facilities shall be deemed personal property for purposes of this License, regardless of whether any portion is deemed real or personal property under applicable law, and Licensor consents to Licensee's right to remove all or any portion of the antenna facilities from time to time in Licensee's sole discretion and without Licensor's consent.

## **23. Right of First Refusal.**

If Licensor elects, during the Term to grant to a third party by easement or other legal instrument an interest in and to that portion of the Tower and or Property occupied by Licensee, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, with or without an assignment of this License to such third party, Licensee shall have the right of first refusal to meet any bona fide offer on the same terms and conditions of such offer. If Licensee fails to meet such bona fide offer within thirty (30) days after written notice thereof from Licensor, Licensor may grant the easement or interest in the Property or portion thereof to such third person in accordance with the terms and conditions of such third party offer.

## **24. Rights Upon Sale.**

Should Licensor, at any time during the Term decide (i) to sell or transfer all or any part of the Property or the Tower thereon to a purchaser other than Licensee, or (ii) to grant to a third party by easement or other legal instrument an interest in and to that portion of the Tower and or Property occupied by Licensee, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, such sale or grant of an easement or interest therein shall be under and subject to this License and any such purchaser or transferee shall recognize Licensee's rights hereunder under the terms of this License. To the extent that Licensor grants to a third party by easement or other legal instrument an interest in and to that portion of the Tower and/or Property occupied by Licensee for the purpose of operating and maintaining communications facilities or the management thereof and in conjunction therewith, assigns this License to said third party, Licensor shall not be released from its obligations to Licensee under this License, and Licensee shall have the right to look to Licensor and the third party for the full performance of this License.

## **22. Miscellaneous.**

- a. For the purpose of providing constructive notice hereof, Licensor and Licensee hereby agree to execute a Memorandum of License in recordable form and Licensee shall have same recorded in the land records of the appropriate county and state.
- b. If any term of this License is found to be void or invalid, such invalidity shall not affect the remaining terms of this License, which shall continue in full force and effect.
- c. Failure of Licensor to insist on strict performance of any of the conditions or provisions of this License, or to exercise any of Licensor's rights hereunder, shall not waive such rights.
- d. This License shall be governed by and construed in accordance with the laws of the state in which the Premises are located and jurisdiction and venue shall be in Rock Island County, Illinois.

- e. This License constitutes the entire license and understanding of the parties and supersedes all offers, negotiations and other licenses, regarding the Property. There are no representations or understandings of any kind not set forth herein. Any amendment to this License must be in writing and executed by both parties.
- f. The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- g. Licensee has no right to retain possession of the Premises or any part thereof beyond the expiration of that removal period set forth in Paragraph 12 herein, unless the Parties are negotiating a new license or license extension in good faith. In the event that the Parties are not in the process of negotiating a new license or license extension in good faith, Licensee holds over in violation of Paragraph 12 and this paragraph, then the rent then in effect payable from and after the time of the expiration or earlier removal period set forth in Paragraph 12 shall be equal to the rent applicable during the month immediately preceding such expiration or earlier termination

**[SIGNATURES APPEAR ON PAGE IMMEDIATELY FOLLOWING.]**

Licensee Site Name/Number: Trinity Rock Island WT  
Licensor Site Name/Number: 288443  
Atty: GJ

**IN WITNESS WHEREOF**, the parties hereto have executed this License as of the date aforesaid.

**LICENSOR:**

CITY OF ROCK ISLAND

BY: \_\_\_\_\_

NAME: Thomas Thomas

TITLE: City Manager

DATE: \_\_\_\_\_

FEDERAL TAX I.D. NO.: 36-6006077

**LICENSEE:**

GTE Wireless of the Midwest, Inc. d/b/a Verizon Wireless

BY: \_\_\_\_\_

NAME: Jacque Vallier

TITLE: Executive Director - Network

DATE: \_\_\_\_\_

**EXHIBIT "A"**  
**PROPERTY**

The Property known as: Water Tower, 24<sup>th</sup> Street 31<sup>st</sup> Avenue, Rock Island, Illinois 61201.

**That part of Lot 7 as per the Assessor's Plat of 1870 in the Northeast Quarter of Section 11, Township 17 North, Range 2 West of the 4th P.M.; situated in Rock Island County, Illinois, more fully described as follows: Commencing at the Southeast corner of the Northeast Quarter of Section 11; thence North along the Section line, a distance of 833.3 feet; thence West a distance of 40.75 feet to the West line of 24th Street, the place of beginning; thence West in a straight line, making an angle of 90°11' turned clockwise with the East line of Section 11, a distance of 292.8 feet; thence Southerly a distance of 640 feet; thence Easterly to the West right of way line of 24th Street, a distance of 301.84 feet; thence Northerly along said West line of 24th Street, a distance of 640 feet to the place of beginning. Excepting from the above described premises the North 360 feet thereof. ALSO EXCEPTING: That part of Lot 7 as per the Assessor's Plat of 1870 in the Northeast Quarter of Section 11, Township 17 North, Range 2 West of the 4th P.M.; situated in Rock Island County, Illinois, more fully described as follows: Beginning at the Northwest corner of 24th Street and 31st Avenue, Rock Island, Illinois; thence North along the West right of way line of 24th Street, 167.21 feet to the place of beginning; thence West 157 feet to a point; thence North 60 feet to a point; thence West 145 feet to a point; thence North 197 feet to a point; thence East 300.11 feet to a point on the West line of 24th Street; thence South along the West line of 24th Street 257 feet to the place of beginning.**

## EXHIBIT "B"

### WATER TOWER ACCESS GUIDELINES

Following the World Trade Center incident on September 11, 2001, the Department of Homeland Security identified potable water infrastructures as being susceptible to terrorism. Numerous steps have been taken to ensure the safety of our drinking water infrastructure including, but not limited to, modification of storage tower access ladders, security fencing, tamper proof locks, etc.

The City of Rock Island has implemented the following guidelines for accessing water tower facilities:

In the event a City employee needs access to the water tower, the following procedures must be followed:

1. All City employees must notify RICOMM prior to entering any water tower facility (309-732-2511). RICOMM will keep a log of this activity.
2. The employee must state their name, department, and a brief description as to the nature of their business to the on-duty operator at RICOMM.
3. Upon completion of the work and after securing the premises, the employee must notify RICOMM that they are vacating the water tower facility.

In the event a contractor needs access to the water tower, the following procedures must be followed:

1. A new contractor must contact the Police Booking Custodian (309-732-2525) with the City of Rock Island Police Department, 316 16<sup>th</sup> Street, Rock Island, Illinois, during normal business hours (7:45 a.m. to 10:45 p.m.) to apply for a Water Tower Access Permit.

If a contractor has not been approved for a Tower Access Permit and needs access to the water tower facilities after the Police Department's normal business hours, the contractor must contact RICOMM (309-732-2511) and RICOMM will send an officer to stand-by at the water tower facility while the contractor is present.

2. The contractor will be required to complete a series of paperwork including, but not limited to, a clearance check, scope of work statement on company letterhead, estimate of time on site, a list of names and date of birth for employees that will be on site, a "Liable for Damage" form/contract, access guidelines, etc.
3. A photo ID will be issued by the City of Rock Island Police Department that must be kept on the person at all times while on site.
4. The Police Department will issue the contractor a key to the water tower facilities upon satisfactory completion of this paperwork and clearance check.
5. The contractor will be required to check the key out at the beginning of each workday.
6. The key can be checked out for a period not to exceed 12 hours. If more time is needed, the contractor must notify the City of Rock Island's Police Department and request additional time.
7. The key must be returned to the Police Department within 30 minutes of the contractor leaving the site.

In the event that the key is not returned or is lost, the contractor and/or company will pay the City of Rock Island \$2,000. Another key will not be issued until the \$2,000 is paid in full.

8. In the event a contractor needs to utilize the services of another contractor, a list of the names, sex/race, and dates of birth of the contractors must be submitted to the City of Rock Island Police Department 48 hours in advance for a clearance check. A permitted employee from the primary contractor must be on site with the sub-contractor at all times.

**EXHIBIT "C"**  
**INSURANCE REQUIREMENTS**

The Licensee may not use the premises or commence work until it has obtained all insurance required under this Exhibit C. The Licensee may not allow any contractor or subcontractor to commence work on his or her contract or subcontract until all insurance required by the contractor or subcontractor has been so obtained. Insurance required consists of the following:

- (a) Worker's Compensation Insurance providing statutory benefits for all of the Licensee's employees engaged in work at the work site.
  - (i) Commercial General Liability Insurance with limits of two million dollars (\$2,000,000) per occurrence for bodily injury (including death) and for damage to or destruction of property, with Licensor included as an additional insured as its interest may appear under this Agreement, taken out and maintained for the duration of the contract by the Licensee, All insurance acquired under the terms of this article must be obtained through an insurance company authorized to do business in the State of Illinois, and certificates of insurance must be filed with the City Clerk on January 1<sup>st</sup> of each year of the agreement.

The Licensee shall require any of its subcontractors entering upon the Premises to obtain and maintain substantially the same coverage with substantially the same limits as required of the Licensee.

**EXHIBIT "D"**

**INSTALLATION AND MAINTENANCE CRITERIA**

- A. Licensee shall, at Licensee's expense, keep and maintain the Premises in a commercially reasonable condition and repair during the term of this License. Licensee agrees to maintain the antenna facilities in proper operating condition and within industry accepted safety standards. All installations and operations in connection with this License by Licensee must be in compliance with all applicable federal, state, and local laws, codes and regulations, including but not limited to local zoning requirements. Licensor assumes no responsibility for the licensing, operation and/or maintenance of the antenna facilities. Licensee shall comply with all of the terms of its FCC License.
- B. Prior to installing or allowing any antenna facilities to be installed in or on the Premises, Licensee shall submit two (2) sets of detailed engineering plans and specifications of the planned installation to Licensor, including plans and specifications for any pre-fabricated building, for Licensor's written approval, which approval shall not be unreasonably withheld, conditioned, or delayed. Licensor's review of Licensee's plans shall include a review of the appearance of the planned installation. Licensor's approval of any installation is not a representation that such installation of the antenna facilities is in compliance with all applicable laws, ordinances, rules and regulations or that it will not cause interference with other communications operations on the Property. All construction activities must have prior approval and supervision of the City of Rock Island Public Works Department. Licensee will notify Licensor to arrange a mandatory pre-construction meeting on the site. No work shall begin on the site until after this pre-construction meeting.
- C. All installation and other work to be performed by Licensee hereunder will be done in such a manner so as not to interfere materially with, delay, or impose any additional expense upon Licensor in maintaining the Premises. In no event will Licensor be required to consent to any installation or other work by Licensee, which would, in Licensor's sole judgment, adversely affect any part of the Premises. All cable runs, conduit and sleeving shall be installed in a good workmanlike manner. Cables and transmission lines shall be routed and attached in accordance with current, state of the art, industry practices. The antenna facilities shall be identified with permanently marked, weather proof tags at the following locations: (i) each antenna bracket; (ii) at the transmission line Premises entry point; (iii) at the interior wall feed through or any other transmission line exit point; and (iv) at any transmitter combiner, duplexer, or multifed receive port. In addition, all Licensee telephone blocks, demarcs, and cables shall be clearly identified with the Licensee's name, type of line, and circuit number.
- D. Licensee shall at all times obtain and maintain any licenses, permits, and approvals necessary for the installation or operation of the antenna facilities at its sole cost and expense.
- E. Licensee shall install a solid cedar fence around all outside ground equipment. This fence must visually hide the outside ground equipment from the right-of-way and private property owners. Inside the cedar fence there must contain a vegetation barrier to prevent unsightly vegetation growth.

Licensee Site Name/Number: Trinity Rock Island WT  
Licensor Site Name/Number: 288443  
Atty: GJ

**EXHIBIT "E"**

**SITE PLAN**

**[See Attached approved plans]**

**SHEET INDEX**

NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
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SP-2	GENERAL NOTES AND SPECIFICATIONS
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LS-2	SITE SURVEY
LS-3	SITE SURVEY
LS-4	SITE SURVEY
LS-5	AERIAL, ZONING, FLOOD AND WETLAND MAPS
A-0	OVERALL SITE PLAN
A-1	COMPOUND PLAN
A-2	SITE ELEVATION
A-3	EQUIPMENT CHANGE REQUEST FORM & COMBINER - CABLE DATA
A-3A	ANTENNA PLAN & SCHEMATIC DIAGRAM
A-3B	EQUIPMENT DETAILS
A-4	ANTENNA MOUNTING AND CABLE ROUTING DETAILS
A-4A	ANTENNA MOUNTING FRAME BY MICROFLUCT
A-4B	NEW RRURAYCAP MOUNT SPECIFICATIONS BY SITE PRO
A-5	NEW FENCE DETAILS
A-5A	ICE BRIDGE & GPS ANTENNA DETAILS
A-5B	ARCHITECTURAL & CIVIL DETAILS
PS-1	PAINT SPECIFICATION
S-1	SHELTER FOUNDATION PLAN & DETAILS
S-2	GENERATOR FOUNDATION PLAN
E-1	UTILITY SITE PLAN
E-1A	ENLARGED UTILITY PLAN
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E-3	ELECTRICAL SCHEMATIC
E-4	UTILITY DETAILS
G-1	SITE GROUNDING PLAN
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
G-4	GROUNDING DETAILS
N-1	NOTICE TO CONTRACTOR
PL-1	SITE PHOTO LOG

**DRIVING DIRECTIONS**

DRIVING DIRECTIONS FROM 1515 WOODFIELD RD, SUITE 1000, SCHAUMBURG, IL 60173:

1. HEAD NORTH (0.1 MI)
2. SLIGHT RIGHT TOWARD E WOODFIELD RD (279 FT)
3. CONTINUE ONTO E WOODFIELD RD (0.1 MI)
4. TURN RIGHT ONTO W FRONTAGE RD (0.5 MI)
5. TAKE THE INTERSTATE 290 E RAMP ON THE LEFT TO CHICAGO (0.4 MI)
6. MERGE ONTO I-290 E (4.2 MI)
7. KEEP LEFT AT THE FORK TO CONTINUE ON I-355 S, FOLLOW SIGNS FOR INTERSTATE 355/JOLIET (9.5 MI)
8. TAKE THE EXIT TOWARD CHICAGO/AURORA (1.0 MI)
9. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 88/CHICAGO/AURORA (0.2 MI)
10. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR I-88 AND MERGE ONTO I-88W (1.33 MI)
11. CONTINUE ONTO IL-5W (12.6 MI)
12. TAKE THE IL-5 W EXIT TOWARD ROCK ISLAND (0.3 MI)
13. TURN RIGHT ONTO IL-5 W/45TH AVE/BLACKHAWK RD (1.5 MI)
14. TURN RIGHT ONTO 24TH ST (0.4 MI)
15. SLIGHT RIGHT TO STAY ON 24TH ST (0.6 MI)

DESTINATION WILL BE ON THE LEFT  
TOTAL TRAVEL ESTIMATES: 165 MILES, 2 HOURS 32 MINUTES

**PROFESSIONAL LICENSURE**

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY COMPLY WITH THE REQUIREMENT OF ALL APPLICABLE CODES AND ORDINANCES.

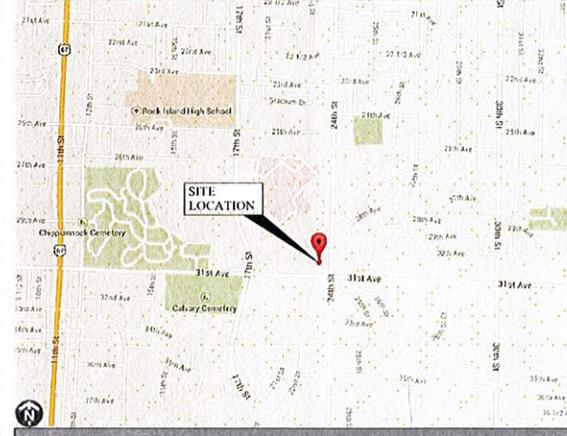


LICENSED PROFESSIONAL - STATE OF ILLINOIS  
EXPIRES: 11/30/15  
SIGNED: 10/30/15

**REGIONAL MAP**



**VICINITY MAP**



Know what's below.  
Call before you dig.

CALL 811 FOR UNDERGROUND UTILITIES PRIOR TO DIGGING  
811 OR 1-800-892-0123

**GTE WIRELESS MIDWEST, INC.**

d/b/a VERIZON WIRELESS

**SCOPE OF WORK**

(1) NEW LESSEE 8'-0"X20'-10 1/2" SHELTER, (9) NEW ANTENNAS, (3) NEW AWS RRH UNITS W/ (3) AZ BOXES, (6) NEW TMA'S, (6) NEW DUPLEXERS, (11) NEW TOWER MOUNTED RAYCAP, (2) NEW SECTOR RAYCAPS, (12) NEW COAX CABLES AND (3) NEW HYBRID CABLES MOUNTED ON AN EXISTING WATER TANK  
(NEW LESSEE ANTENNA CENTERLINE: 100'-0" AGL) (TOP OF WATER TANK= 183'-0" AGL)

APPROVALS

REAL ESTATE \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

RF \_\_\_\_\_

SITE ACO. \_\_\_\_\_

FIELD OPS \_\_\_\_\_

LANDLORD *Jared Powers*

**PROJECT NUMBER**

20141020725

**LOCATION NUMBER**

288443

**SITE NAME**

TRINITY ROCK ISLAND

**SITE ADDRESS**

3000 24TH ST.  
ROCK ISLAND, IL 61201

**PROJECT INFORMATION**

APPLICANTS:	CHICAGO SMSA LIMITED PARTNERSHIP d/b/a VERIZON WIRELESS 1515 WOODFIELD, SUITE 1000 SCHAUMBURG, IL 60173	LATITUDE:	N 41° 28' 47.50"
LANDLORD:	CITY OF ROCK ISLAND 1528 3RD AVE ROCK ISLAND, IL 61201 PHONE: (309) 732-2200	LONGITUDE:	W 90° 34' 05.08"
		GROUND ELEV.:	676.00 FT. (AMSL)
		SITE TYPE:	WATER TOWER
		JURISDICTION:	CITY OF ROCK ISLAND
		COUNTY:	ROCK ISLAND
		UTILITIES:	
		POWER:	MIDAMERICAN ENERGY CONTACT: CHAD VERYZER PHONE: (309) 793-3759
		FIBER:	WIN CONTACT: DAN MATSON PHONE: (608) 347-2148

**PROJECT CONTACTS & CODES**

VERIZON WIRELESS PROJECT MANAGER CONTACT:	BRYAN LAZUKA 1515 WOODFIELD ROAD SUITE 1000 SCHAUMBURG, IL 60173 PHONE: (847) 833-1154	CODES:	1. 2009 IBC W/LOCAL AMENDMENTS 2. 2009 IMC W/LOCAL AMENDMENTS 3. 2009 IFC W/LOCAL AMENDMENTS 4. 2009 IFGC W/LOCAL AMENDMENTS 5. 2008 NEC W/LOCAL AMENDMENTS 6. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION 8. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES 9. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
ENGINEERING & SURVEYING CONTACT:	CONCORDIA WIRELESS GM SADAT, PE PHONE: (847) 981-0801 FAX: (847) 981-0803		
SITE ACQUISITION:	INSITE INC. 15660 MIDWEST ROAD, SUITE 140 OAK BROOK TERRACE, IL 60181 JARED POWERS PHONE: (651) 271-5454		

**GTE WIRELESS MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011-D-B-A  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS  
CHECKED BY: RH APPROVED BY: GMS

**ISSUED FOR PERMIT ISSUE**

No.	Revision/Issue	Date	Initial
A	LEASE EXHIBIT	12/08/14	KC
B	REVISED LEASE EXHIBIT	12/12/14	BD
C	LEASE EXHIBIT REVISION #2	02/02/15	JR
D	LEASE EXHIBIT OPTION 3A	05/05/15	JR
E	LEASE EXHIBIT OPTION 3A REVISION	05/11/15	KC
F	90% REVIEW	06/05/15	JR
G	90% REVISION	07/27/15	VG
H	PERMIT ISSUE	10/30/15	JR

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNA		(E) BRICK
	GROUND ROD		(E) MASONRY
	GROUND BUS BAR		CONCRETE
	MECHANICAL GRND. CONN.		EARTH
	CAD WELD		GRAVEL
	GROUND ACCESS WELL		PLYWOOD
	ELECTRIC BOX		SAND
	TELEPHONE BOX		WOOD CONT.
	LIGHT POLE		WOOD BLOCKING
	FND. MONUMENT		STEEL
	SPOT ELEVATION		CENTERLINE
	SET POINT		PROPERTY/LEASE LINE
	REVISION		MATCH LINE
	GRID REFERENCE		WORK POINT
	DETAIL REFERENCE		GROUND CONDUCTOR
	ELEVATION REFERENCE		--- UT --- BELOW GRADE TELEPHONE CONDUIT
			--- UE --- BELOW GRADE ELECTRICAL CONDUIT
			--- A --- COAXIAL CABLE
			--- OE/OT --- OVERHEAD ELECTRIC/TELEPHONE CONDUCTORS
			--- X --- CHAIN LINK FENCING

**1 PROJECT SYMBOLS**  
SCALE: NTS

1. REPRESENTATIVES OF THE OWNER MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
3. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
4. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
5. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
6. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION. AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL OUPS AT (800) - 362-2764 FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.

7. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
8. THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
9. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
10. ALL EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
11. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
12. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.

**3 GENERAL NOTES**  
SCALE: NTS

ABV.	ABOVE
ADDL.	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BT.W.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
BU.	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DBL.	DOUBLE
DEPT.	DEPARTMENT
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXIST.(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(F)	FOOT(FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GPS.	GLOBAL POSITIONING SYSTEM
GND.	GROUND
HGR.	HANGER
HT.	HEIGHT

ICGB.	ISOLATED COPPER GROUND BUS
IN.(")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.F.	LINEAR FEET (FOOT)
L.	LONG(TUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
MDCMC	METRICOM DESIGNATED
	CONSTRUCTION MANAGEMENT
	& CONTRACTING
	MECHANICAL
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
PCS	PERSONAL COMMUNICATION SERVICES
PLY.	PLYWOOD
PRC.	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQD.	REQUIRED
RGS.	RIGID GALVANIZED STEEL
SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION(S)
SG.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
UN.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE(WIDTH)
W/	WITH
WAP.	WIRED ACCESSED POINT
WCS	WIRELESS COMMUNICATION SERVICE
WT.	WEIGHT
⌀	CENTERLINE
℄	PLATE

**2 PROJECT ABBREVIATIONS**  
SCALE: NTS

13. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
14. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
15. THE GRADES WITHIN THE FENCED-IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR COVERING THE AREA WITH 6 MIL. VISQUENE (1" OVERLAP AT SEAMS) FOR WEED SUPPRESSION, THEN ACHIEVING FINISH GRADE BY ADDING 6" OF 3/4" CRUSHED STONE-NO FINES.
16. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SO THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE.
17. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED.
18. GC TO HIRE JULIE PUBLIC & PRIVATE LOCATE SERVICE IN ORDER TO LOCATE AND PROTECT ANY AND ALL SURFACE UTILITIES. DO NOT SCALE OFF THESE PLANS FOR ANY BELOW GRADE UTILITIES.
19. THESE PLANS MAY NOT CONTAIN OR REVEAL ALL SUBSURFACE UTILITIES; GC IS RESPONSIBLE OF LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC      CHECKED BY: PS  
CHECKED BY: RH      APPROVED BY: GMS



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**GENERAL NOTES**

SHEET NUMBER:  
**SP-1**

GENERAL NOTES:

- 1. CONTRACTOR TO FURNISH AND INSTALL THE FOLLOWING:

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.

IT IS THE POSITION OF VERIZON WIRELESS TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.

- 2. VERIZON WIRELESS FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WIRELESS WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATED, PROTECTED AND INSTALLED BY THE

CONTRACTOR WITH ALL APPURTENCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING UP.

- 3. ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.

- 4. ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (EXCEPT WHERE OTHERWISE NOTED) AND SHALL COMPLY WITH THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES (U.L.) AND BEAR THE U.L. LABEL.

- 5. VERIZON WIRELESS OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO THE OWNER OR HIS ARCHITECT/ENGINEER.

- 6. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING STRUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION.

- 7. THE CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED BY THE GOVERNING AUTHORITIES. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE. AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT HIS OWN EXPENSE.

- 8. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER (VERIZON WIRELESS) ASSUME NO RESPONSIBILITY WHATEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL SAID UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING AFFECTED UTILITIES.

GENERAL NOTES (CONT'D):

- 9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS OWN RISK AND EXPENSE.

- 10. CONTRACTORS SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, DEBRIS, WEEDS, BRUSH, OR ANY OTHER DEPOSITS REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.

- 11. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

- 12. DURING CONSTRUCTION, THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE UTILITIES OF THE BUILDING/SITE WITHOUT INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY SERVICE OR UTILITY, THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM THE BUILDING/PROPERTY OWNER FOR SUCH INTERRUPTION, AT LEAST 72 HOURS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF INCONVENIENCE TO THE BUILDING/PROPERTY OWNER AND ANY SUCH SHUTDOWN TIME SHALL BE COORDINATED WITH THE BUILDING/PROPERTY OWNER.

- 13. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION.

- 14. CONTRACTOR SHALL SUBMIT AT THE END OF THE PROJECT A COMPLETE SET OF AS BUILT DRAWINGS TO VERIZON WIRELESS' PROJECT ENGINEER.

- 15. GC WILL NOT START THE CONSTRUCTION UNTIL AFTER THEY RECEIVE THE PRE CON PACKAGE AND HAVE A PRE CON WALK WITH THE PROJECT MANAGER.

DIVISION 2 - SITE WORK:

- 1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE PROJECT MANAGER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT LIMITED TO:

- A. FALL PROTECTION
B. CONFINED SPACE
C. ELECTRICAL SAFETY
D. TRENCHING AND EXCAVATION

- 2. REMOVE FROM SITE/OWNER'S PROPERTY ALL WASTE MATERIALS, UNUSED EXCAVATED MATERIAL INCLUDING MATERIAL CLASSIFIED UNSATISFACTORY, CONTAMINATED OR DANGEROUS TRASH AND DEBRIS, AND DISPOSE OF IN A LEGAL MANNER.

- 3. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.

- 4. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH

- 5. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, AS REQUIRED DURING CONSTRUCTION.

- 6. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND CONSTRUCTION STAKING. CONTRACTOR SHALL ESTABLISH GRADE AND LINE STAKES PRIOR TO CONSTRUCTION.

- 7. CONCORDIA DOES NOT GUARANTEE OR WARRANT THAT THE AFOREMENTIONED EASEMENTS ARE SUFFICIENT FOR CONSTRUCTION TRAFFIC. GC SHALL CONSULT WITH A VERIZON REPRESENTATIVE AND LANDLORD WITH EXACT LOGISTICS TO FACILITATE CONSTRUCTABILITY OF THE SITE AND DELIVERY OF CRITICAL MATERIALS SUCH AS THE TOWER, STEEL, CONCRETE AND CRANES TO THE PROPOSED LEASE AREA. GC SHALL RESTORE SITE TO ORIGINAL CONDITIONS AND REPLACE ANY AND ALL DISTURBED TREES OR LANDSCAPING.

- 8. CONCORDIA IS NOT RESPONSIBLE FOR THE MAINTENANCE AND/OR OPERATIONAL FEASIBILITY.

- 9. SCOPE OF WORK FOR THESE PLANS DOES NOT INVOLVE VALUE ENGINEERING AS WELL AS MAINTAINABILITY OPERATIONS OF THE SITE, ACCESS OR UTILITIES.

DIVISION 3 - CONCRETE:

- 1. MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS OTHERWISE NOTED.

- 2. CONCRETE FOR ALL FOUNDATIONS: 540 LBS PER CUBIC YARD OF CONCRETE MINIMUM CEMENT CONTENT FOR 1-INCH MAXIMUM SIZE AGGREGATE, SLUMP RANGE 3 INCHES TO 5 INCHES, TOTAL AIR CONTENT 4 PERCENT TO 7 PERCENT BY VOLUME. AIR ENTRAINING ADMIXTURE REQUIRED TO CONTROL TOTAL AIR CONTENT, WATER REDUCING ADMIXTURE PERMITTED TO OBTAIN SLUMP OVER 3-INCHES.

- 3. ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE.

- 4. REBARS SHALL BE ASTM A-615 DEFORMED TYPE WITH MINIMUM YIELD STRENGTH OF 60,000 PSI (40,000 PSI GRADE MAY BE USED FOR TIES & STIRRUPS).

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

- 5. DETAILING SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-315 LATEST EDITION).

- 6. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

- 7. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. THE FOLLOWING MINIMUM COVER (INCHES) FOR REINFORCEMENT SHALL BE PROVIDED, EXCEPT AS NOTED ON DRAWINGS.

MINIMUM COVER (INCHES)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ... 3"
EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 ... 2"
#5 BAR AND SMALLER ... 1-1/2"

- 8. TESTS
CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS THE WORK PROGRESSES. FAILURE TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR FINAL ACCEPTANCE.

- A. FIVE CONCRETE TEST CYLINDERS SHALL BE TAKEN OF THE TOWER PIER FOUNDATION. TWO SHALL BE TESTED @ THREE DAYS, TWO @ TWENTY-EIGHT DAYS. THE FIFTH CYLINDER SHALL BE KEPT SEPARATELY, IF REQUIRED TO BE USED IN THE FUTURE.

- B. ONE ADDITIONAL TEST CYLINDER SHALL BE TAKEN DURING COLD WEATHER AND CURED ON SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.

- C. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.

- 9. PLACING CONCRETE

- A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT, UNLESS INSPECTION IS WAIVED IN EACH CASE, PLACING OF CONCRETE SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER. CONCRETE SHALL NOT BE PLACED UNTIL ALL FORMWORK, EMBEDDED PARTS, STEEL REINFORCEMENT, FOUNDATION SURFACES AND JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE VERIZON WIRELESS REPRESENTATIVE HAVE BEEN PROVIDED AND MADE READY FOR ACCOMPLISHMENT OF THE WORK AS SPECIFIED. CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL ITEMS HAVE BEEN APPROVED AND VERIZON WIRELESS HAS PERFORMED A FINAL INSPECTION AND GIVEN APPROVAL TO START PLACEMENT IN WRITING.

- B. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.

- 10. PROTECTION

- A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY. FINISHED WORK SHALL BE PROTECTED.

- B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

- C. ALL CONCRETE SHALL BE WATER CURED BY CONTINUOUS (NOT PERIODIC) FINE MIST SPRAYING OR SPRINKLING ALL EXPOSED SURFACES. WATER SHALL BE CLEAN AND FREE FROM ACID, ALKALI, SALTS, OIL SEDIMENT, AND ORGANIC MATTER. SUCCESSFUL CURING SHALL BE OBTAINED BY USE OF AN AMPLE WATER SUPPLY UNDER PRESSURE IN PIPES, WITH ALL NECESSARY APPLIANCES OF SPRINKLERS, AND SPRAYING DEVICES.

DIVISION 5 - STRUCTURAL STEEL:

- 1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AISC MANUAL OF STEEL CONSTRUCTION (ASD), AWS D1.1, AND THE BASIC BUILDING CODE. STRUCTURAL STEEL SHALL BE AS FOLLOWS:

- A. ASTM A36, GRADE 36; ROLLED STEEL, RODS, PLATES, U-BOLTS AND ANCHOR BOLTS.
B. ASTM A325 BOLTS, BEARING TYPE
C. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

- 2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.

- 3. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T-MOBILE PROJECT MANAGER IN WRITING

- 4. TIGHTEN HIGH STRENGTH BOLTS TO A SNUG TIGHT CONDITION WHERE ALL PLIES IN A JOINT ARE IN FIRM CONTACT BY EITHER

- A. A FEW IMPACTS OF A IMPACT WRENCH
B. THE FULL EFFORT OF A PERSON USING A SPUD WRENCH.

- 5. WELDING

- A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED.

- B. WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM A-233, E70 SERIES. BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERGED ARC PROCESS SHALL CONFORM TO AISC SPECIFICATIONS.

- C. FIELD WELDING SHALL BE DONE AS PER AWS D1.1 REQUIREMENTS VISUAL INSPECTION IS ACCEPTABLE.

- 6. PROTECTION

- A. UPON COMPLETION OF ERECTION INSPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT. COLOR TO MATCH THE GALVANIZING PROCESS.

DIVISION 13 - SPECIAL CONSTRUCTION

ANTENNA INSTALLATION

WORK INCLUDED:

- 1. A. ANTENNAS AND COAXIAL CABLES ARE FURNISHED BY VERIZON WIRELESS UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY.

- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS SPECIFICATIONS.

- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.

- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

- F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

- G. ANTENNA AND COAXIAL CABLE GROUNDING:

- 1. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTOR/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
2. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

GTE WIRELESS
MIDWEST, INC.
d/b/a VERIZON WIRELESS

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A PROFESSIONAL DESIGN FIRM
LICENSE # 3323-011- D.B.A.
CONCORDIA WIRELESS, INC.
361 RANDY ROAD
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MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS
CHECKED BY: RH APPROVED BY: GMS



LOCATION # 288443
TRINITY ROCK ISLAND
3000 24TH ST.
ROCK ISLAND, IL 61201

SHEET TITLE:
GENERAL NOTES
& SPECIFICATIONS

SHEET NUMBER:
SP-2



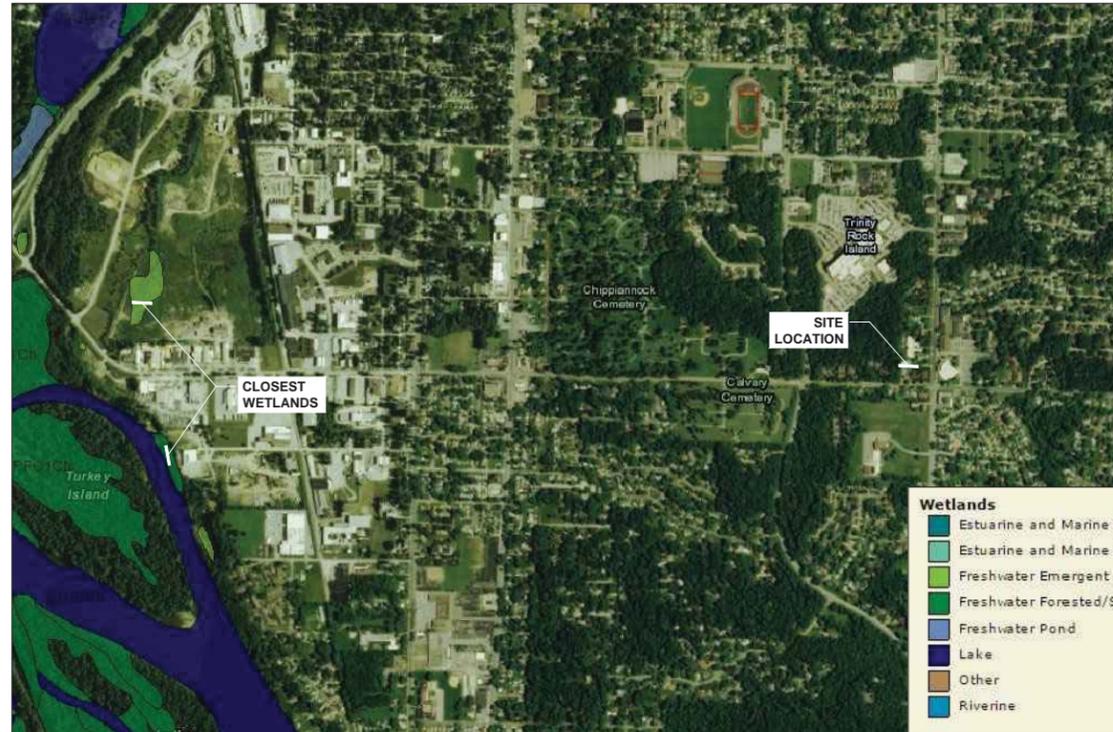






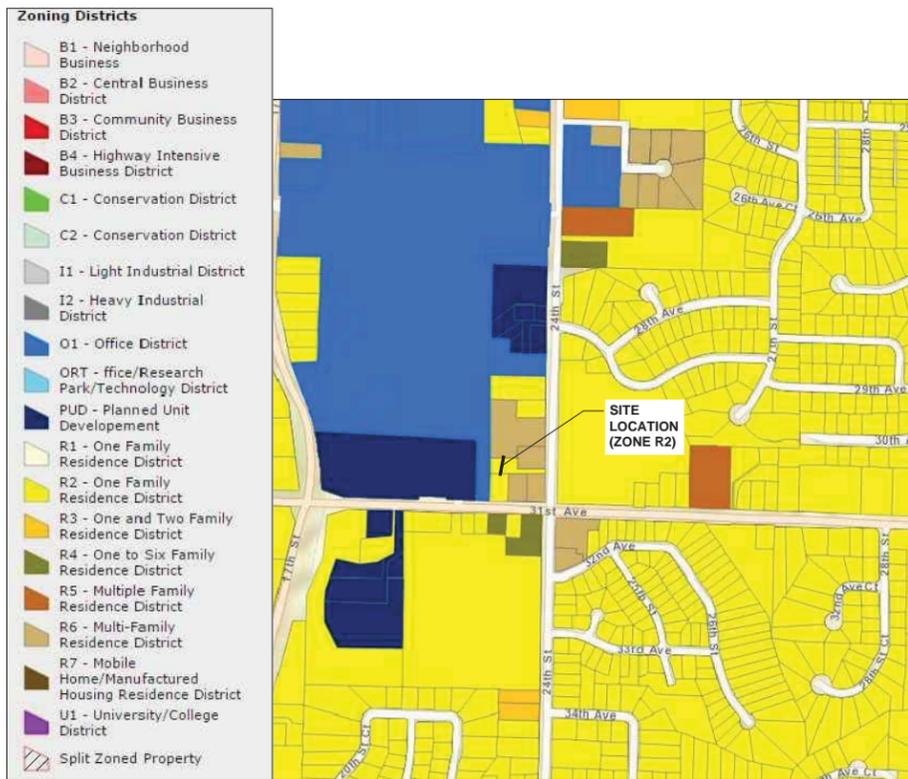


**1 AERIAL VIEW**  
SCALE: N.T.S.



**3 WETLAND MAP**  
SCALE: N.T.S.

**WETLAND INFO:**  
THE PROJECT SITE "DOES NOT" APPEAR TO BE LOCATED WITHIN A WETLAND AREA, AS PER U.S.FISH AND WILDLIFE ONLINE MAPPER SERVICE TOOL



**2 CITY OF ROCK ISLAND ZONING MAP**  
SCALE: N.T.S.



**4 FLOOD PLAIN MAP**  
SCALE: N.T.S.

**FLOOD PLAIN MAP INFO:**  
THE PROJECT SITE "DOES NOT" APPEAR TO BE LOCATED WITHIN A FLOOD PLAIN ("ZONE AE"), PANEL 300 OF 500, AS PER FEMA'S FLOOD INSURANCE RATE MAP #17161C0305F, REVISED ON APRIL 5, 2010. SITE LOCATED IN "ZONE X" -AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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**GHAZWAN M. SADAT**  
062-061844  
LICENSED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**AERIAL, ZONING, FLOOD  
AND WETLAND MAPS**

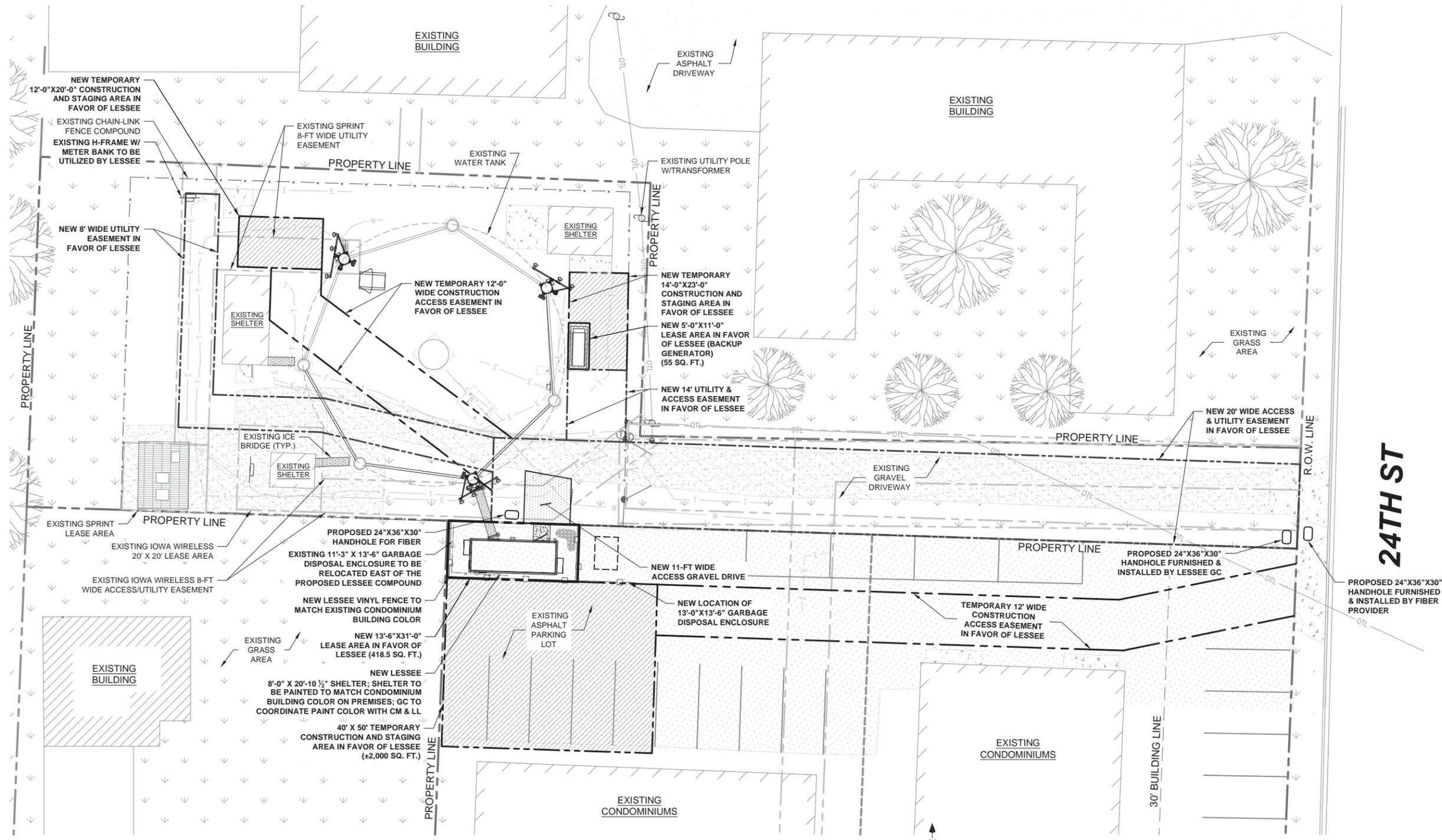
SHEET NUMBER:  
**LS-5**

**LEGEND & SYMBOLS**

○	UTILITY POLE	⊠	TRAFFIC SIGNAL	⊞	GENERATOR RECEPTACLE	666	CONTOUR W/ELEVATION	---	UNDERGROUND ELECTRIC LINE	---	UNDERGROUND WATER LINE
⊞	SIGN	⊠	ROW MARKER	⊞	HANDICAPPED PARKING SPACE	---	EXISTING GUARDRAIL	---	UNDERGROUND FIBER OPTIC LINE	---	UNDERGROUND COMMUNICATION/MONITORING LINE
⊞	TELCO PEDESTAL	○	IRON PIPE SET	⊞	DECIDUOUS TREE W/SIZE	---	CHAIN LINK FENCE	---	UNDERGROUND GAS LINE	---	TEMPORARY CONSTRUCTION AND STAGING AREA
⊞	FIRE HYDRANT	⊞	IRON PIPE FOUND	DT10	CONIFEROUS TREE W/SIZE	---	IRON FENCE	---	UNDERGROUND TELECOMM. LINE		
⊞	LIGHT STANDARD	⊞	BUFFALO BOX	CT10	BRUSH	---	WOOD FENCE	---	UNDERGROUND STORM/SANITARY SEWER LINE		
⊞	INLET	⊞	GROUNDING TEST WELL			---	OVERHEAD WIRES				
⊞	CATCH BASIN	⊞	VALVE BOX			---	LEASE AREA LINE				
⊞	MANHOLE	⊞	HORIZONTAL CONTROL POINT			---	UTILITY EASEMENT LINE				

**IMPORTANT NOTES:**

- GC TO HIRE PUBLIC JULIE & PRIVATE LOCATE SERVICE IN ORDER TO LOCATE AND PROTECT ANY AND ALL SURFACE UTILITIES. DO NOT SCALE OFF THESE PLANS FOR ANY BELOW GRADE UTILITIES.
- THESE PLANS MAY NOT CONTAIN OR REVEAL ALL SUBSURFACE UTILITIES; GC IS RESPONSIBLE OF LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION
- GC WILL NOT START CONSTRUCTION UNTIL AFTER THEY RECEIVE THE PRE CON PACKAGE AND HAVE A PRE CON WALK WITH THE PM.



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**GHAZWAN M. SADAT**  
062-061844  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
*G. Sadat*

LOCATION # 288443  
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SHEET TITLE:  
**OVERALL SITE PLAN**

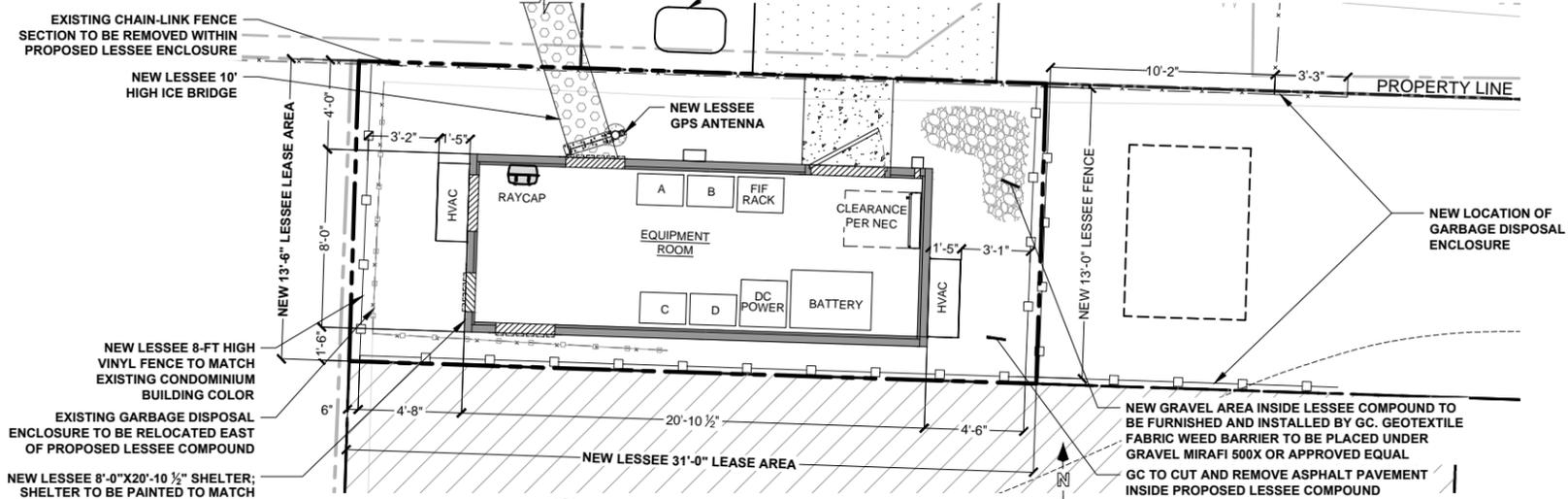
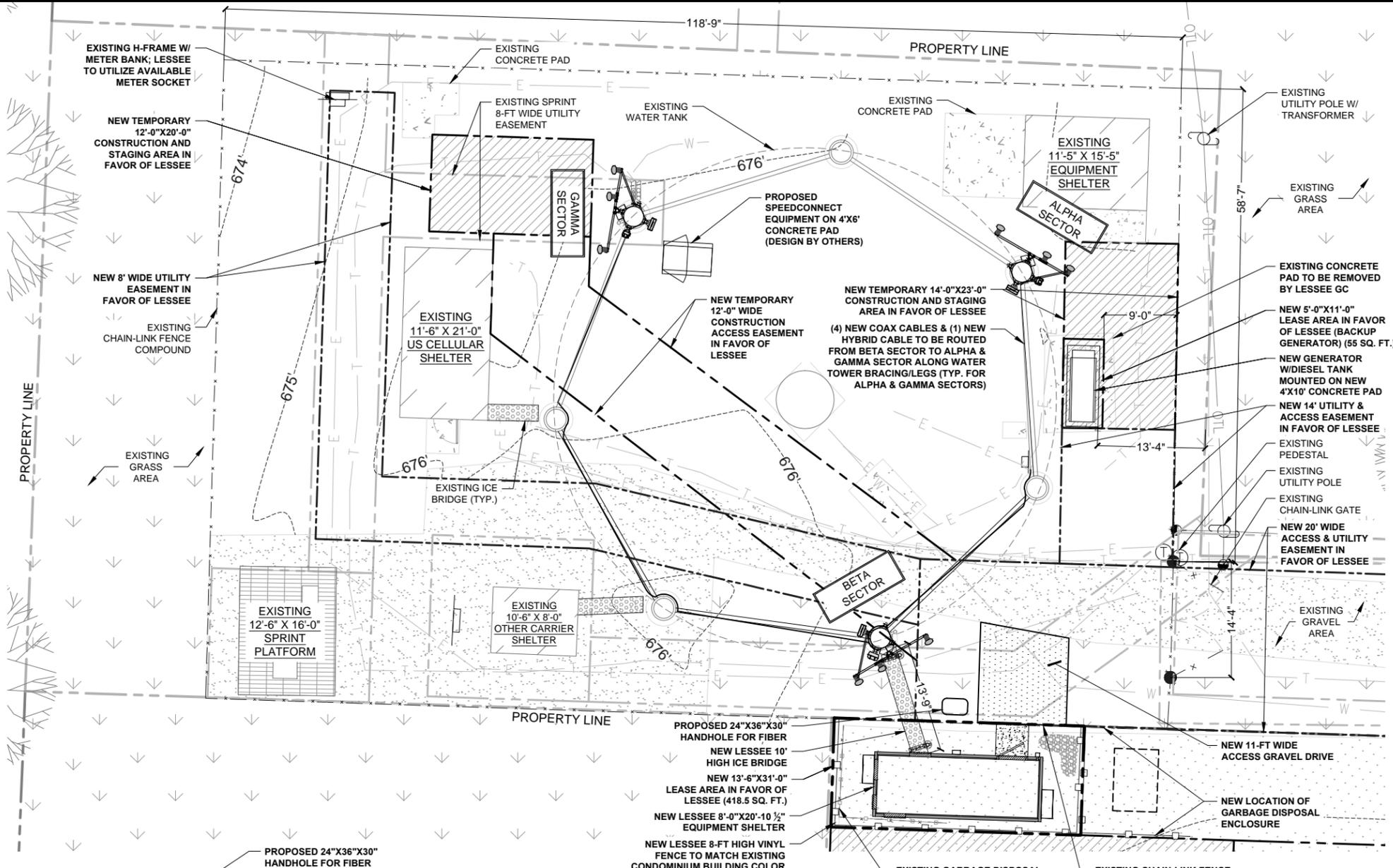
SHEET NUMBER:  
**A-0**

**1 OVERALL SITE PLAN**  
SCALE: 5/64"=1'-0" (5/64"=2'-0" IF 11X17 SHEET SIZE)



**LEGEND & SYMBOLS**

- UTILITY POLE
- SIGN
- TELCO PEDESTAL
- FIRE HYDRANT
- LIGHT STANDARD
- INLET
- CATCH BASIN
- MANHOLE
- TRAFFIC SIGNAL
- ROW MARKER
- IRON PIPE SET
- IRON PIPE FOUND
- BUFFALO BOX
- GROUNDING TEST WELL
- VALVE BOX
- HORIZONTAL CONTROL POINT
- GENERATOR RECEPTACLE
- HANDICAPPED PARKING SPACE
- DT10
- DECIDUOUS TREE W/SIZE
- CT10
- CONIFEROUS TREE W/SIZE
- BRUSH
- TREE LINE
- 666
- CONTOUR W/ELEVATION
- EXISTING GUARDRAIL
- CHAIN LINK FENCE
- IRON FENCE
- WOOD FENCE
- OHW
- OVERHEAD WIRES
- LEASE AREA LINE
- OE
- OVERHEAD ELECTRIC LINE
- UE
- UTILITY EASEMENT LINE
- UNDERGROUND ELECTRIC LINE
- UF
- UNDERGROUND FIBER OPTIC LINE
- G
- UNDERGROUND GAS LINE
- T
- UNDERGROUND TELECOMM. LINE
- SS/SA
- UNDERGROUND STORM/SANITARY SEWER LINE
- W
- UNDERGROUND WATER LINE
- COM
- UNDERGROUND COMMUNICATION/MONITORING LINE
- TEMPORARY CONSTRUCTION AND STAGING AREA



**1 COMPOUND PLAN**  
SCALE: 1/8"=1'-0" (1/8"=2'-0" IF 11X17 SHEET SIZE)

**2 ENLARGED EQUIPMENT LAYOUT**  
SCALE: 1/4"=1'-0" (1/4"=2'-0" IF 11X17 SHEET SIZE)

**NOTE:**  
GC TO MATCH NEW EQUIPMENT SHELTER AND ENCLOSURE FENCE COLOR WITH EXISTING CONDOMINIUM BUILDING COLOR ON PREMISES; COORDINATE PAINT COLOR WITH LL

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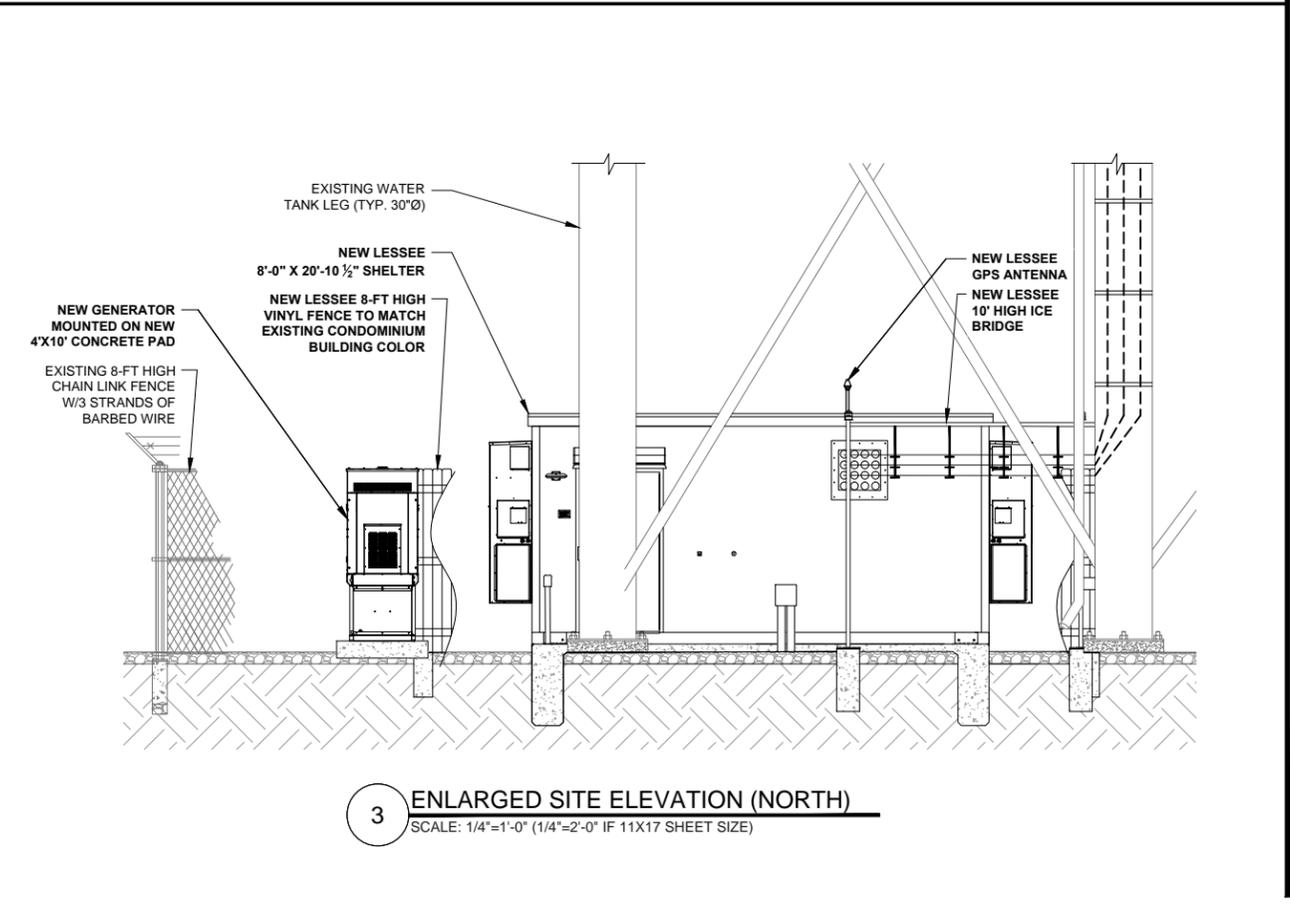
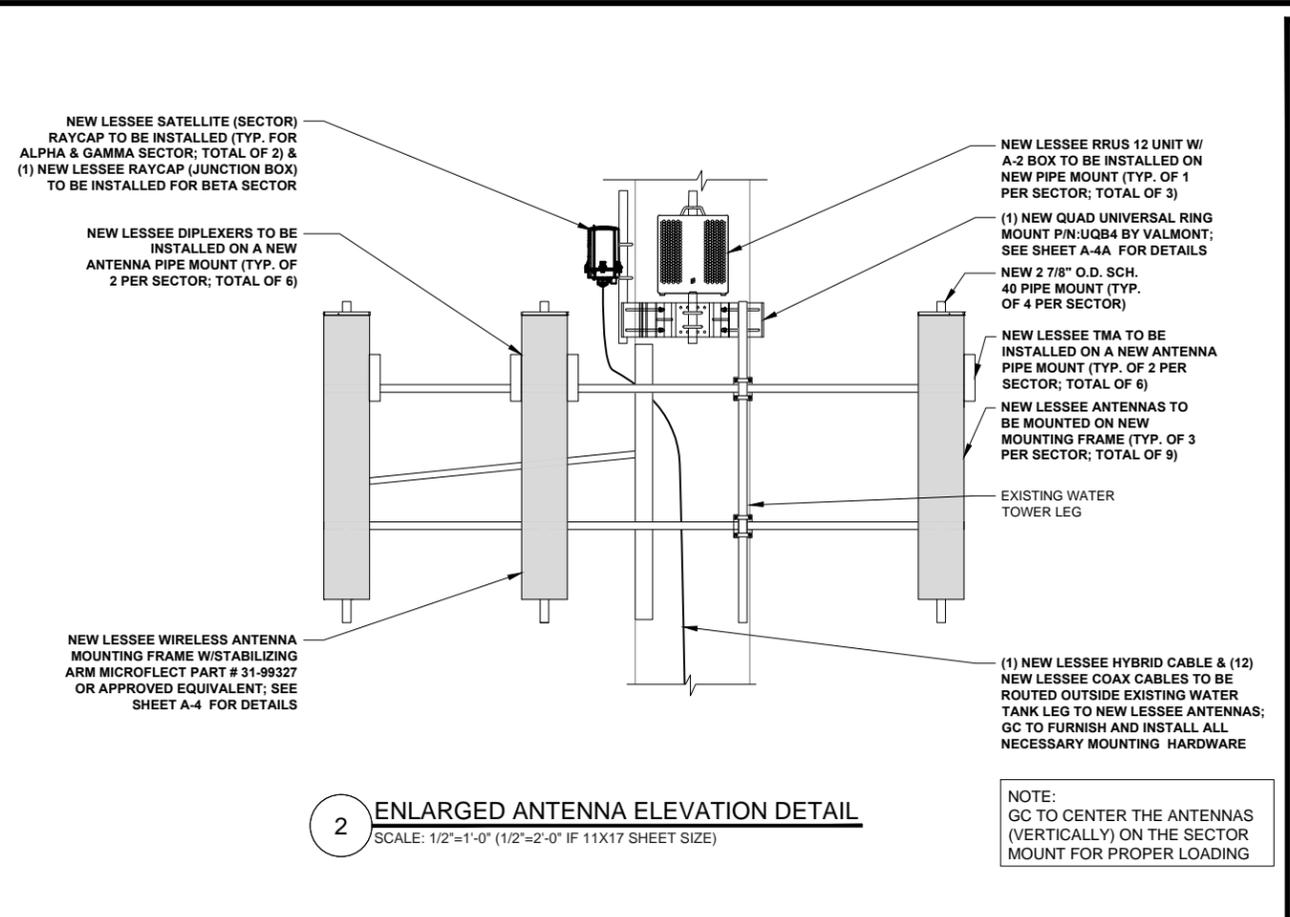
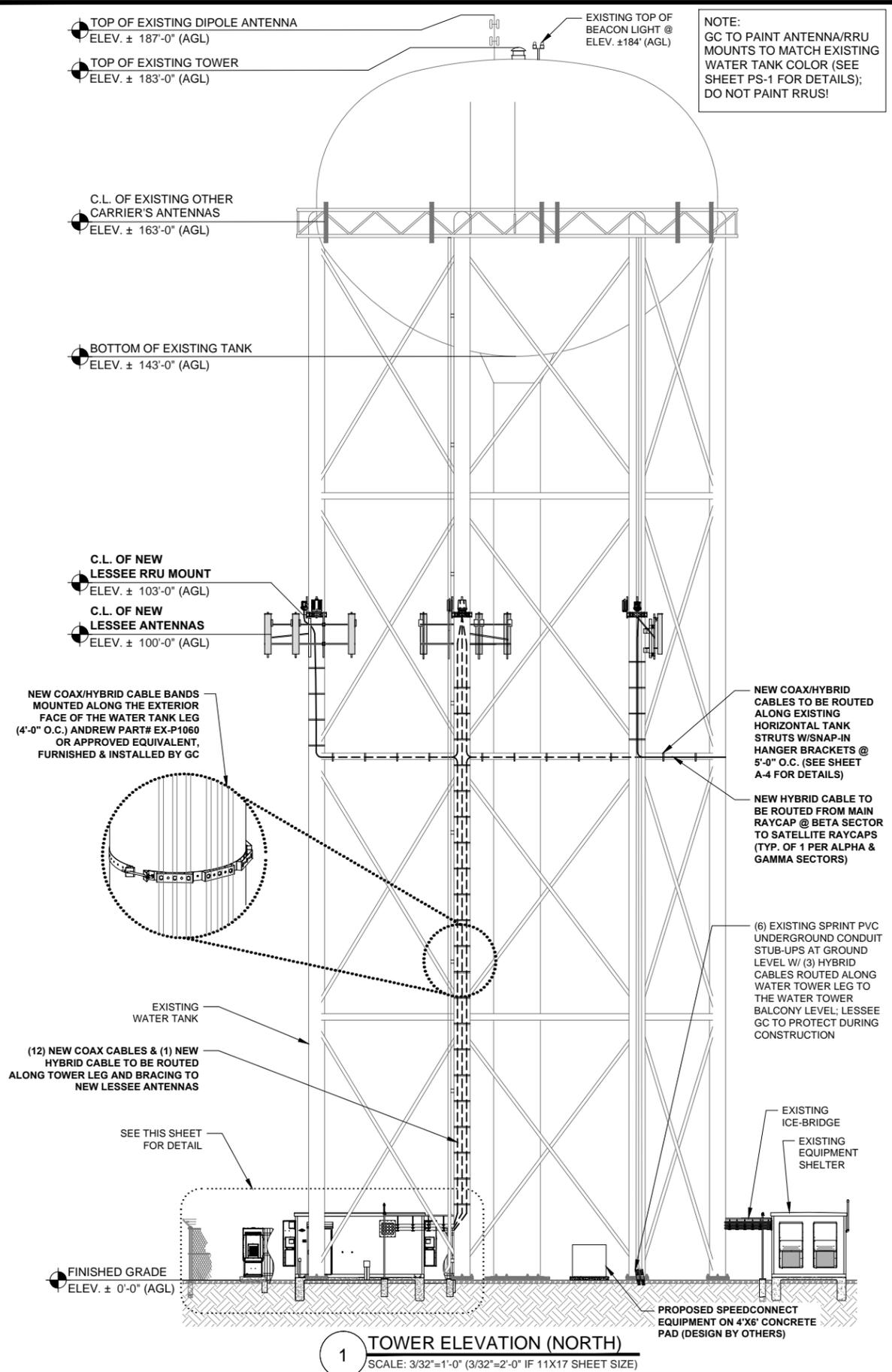
DRAWN BY: NC      CHECKED BY: PS  
CHECKED BY: RH      APPROVED BY: GMS



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**COMPOUND PLAN**

SHEET NUMBER:  
**A-1**



**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.

**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC	CHECKED BY: PS
CHECKED BY: RH	APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ANTENNA PLAN &  
TOWER ELEVATION**

SHEET NUMBER:  
**A-2**

**EQUIPMENT CHANGE REQUEST FORM- ECR**

Cell Name	Trinity Rock Island	RF Engineer	Trisha Bhuyan	Cell ID	Corner of 24th St. and 31st Ave
Location Number	288443	Market	Rockford	Address	Rock Island, IL 61201
Date of Request	10/9/2015			City/State/Zip	

PROPOSED CONFIGURATION												
Sector	Pos	Antenna		Antenna Manufacturer	Antenna Model	Antenna Serial Number	Centerline	Azimuth	Variable Tilt	Mechanical Tilt	Action	
		Port	RF Path									
Alpha	A1	L1 (-45)	LTE C - RxTx0	Andrew	SBNHH-1D65B		100	30	3	0	Add-Install	
		L2 (+45)	LTE C - RxTx1									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	A2	L1 (-45)	Unused at this time									
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	A3	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	30	3	0	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	A4	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	30	3	3	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
Beta	B1	L1 (-45)	LTE C - RxTx0	Andrew	SBNHH-1D65B		100	150	4	0	Add-Install	
		L2 (+45)	LTE C - RxTx1									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	B2	L1 (-45)	Unused at this time									
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	B3	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	150	0	0	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	B4	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	150	4	4	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
GAMMA	G1	L1 (-45)	LTE C - RxTx0	Andrew	SBNHH-1D65B		100	270	4	0	Add-Install	
		L2 (+45)	LTE C - RxTx1									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	G2	L1 (-45)	Unused at this time									
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	G3	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	270	4	0	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	G4	L1 (-45)	Unused at this time	Andrew	SBNHH-1D65B		100	270	4	4	0	Add-Install
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									

Comments

1 EQUIPMENT CHANGE REQUEST FORM

Existing				
Diplexer	Location	Diplexer Manufacturer	Diplexer Model	Count
	Top (Platform)			
	Bottom (Shelter)			
Coax	Sector	Coax Manufacturer	Type	Size
	Alpha			
	Beta			
	Gamma			

Proposed					
Passive Components	Location	Manufacturer	Component Model	Count	Action
	Top (Platform)				
	Top (Platform)	Raycap	1064	2	Install
	Top (Platform)	Westell	AWC-TTMA-700C-VG	6	Install
	Top (Platform)	Ericsson	RRUS 12 - AWS	3	Install
	Top (Platform)	Ericsson	A2	3	Install
	Top (Platform)	Raycap	RCMDC-3315-PF-48	1	Install
	Top (Platform)	ANDREW	CBC78-DF-8-DCB	6	Install
	Top (Platform)				
	Bottom (Shelter)	Raycap	RCMDC-3315-PF-48	1	Install
	Bottom (Shelter)	ANDREW	CBC78-DF-8-DCB	6	Install
	Bottom (Shelter)				
	Bottom (Shelter)				
	Coax	Sector	Coax Manufacturer	Type	Size
Alpha		ANDREW		1 5/8	Install
Beta		ANDREW		1 5/8	Install
Gamma		ANDREW		1 5/8	Install
AWS		Andrew	Hybrid Cable	1 5/8	1

Comments

2 COMBINER - CABLE DATA \*

	ALPHA	BETA	GAMMA
COAX COUNT	4	4	4
COAX LENGTH	189'	132'	217'
HYBRID COUNT	1 (BETA TO ALPHA)	1 (SHELTER TO BETA)	1 (BETA TO GAMMA)
HYBRID LENGTH	120'	150'	150'

NOTE:  
\* THE COAX/HYBRID LENGTH GIVEN IS BASED ON THE DRAWING +15%  
THE EXACT LENGTH TO BE VERIFIED IN FIELD. ELECTRICAL CONTRACTOR TO  
VERIFY LENGTHS AFTER COORDINATING W/ SERVICE UTILITY COMPANIES.

3 NEW CABLE SCHEDULE

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

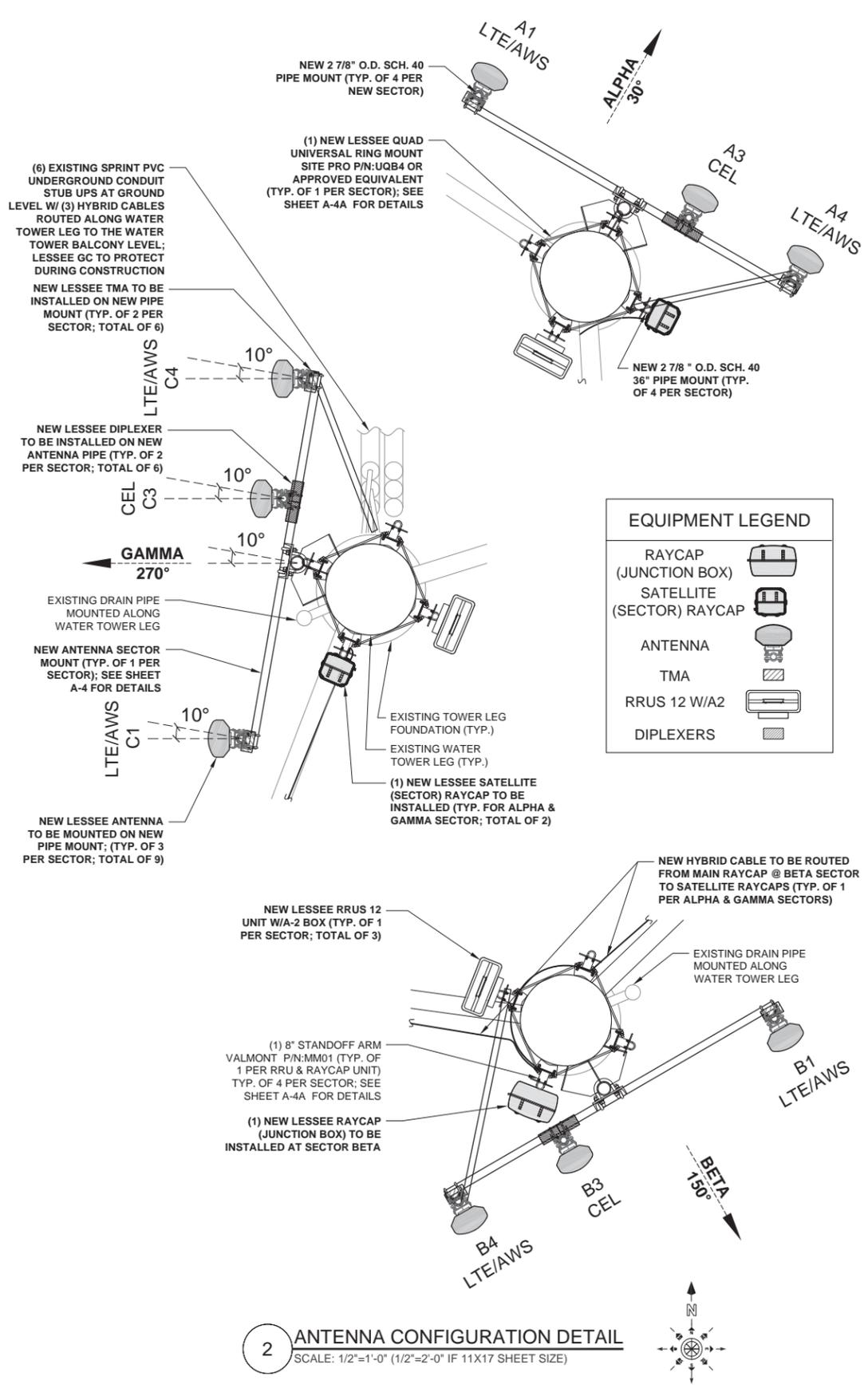
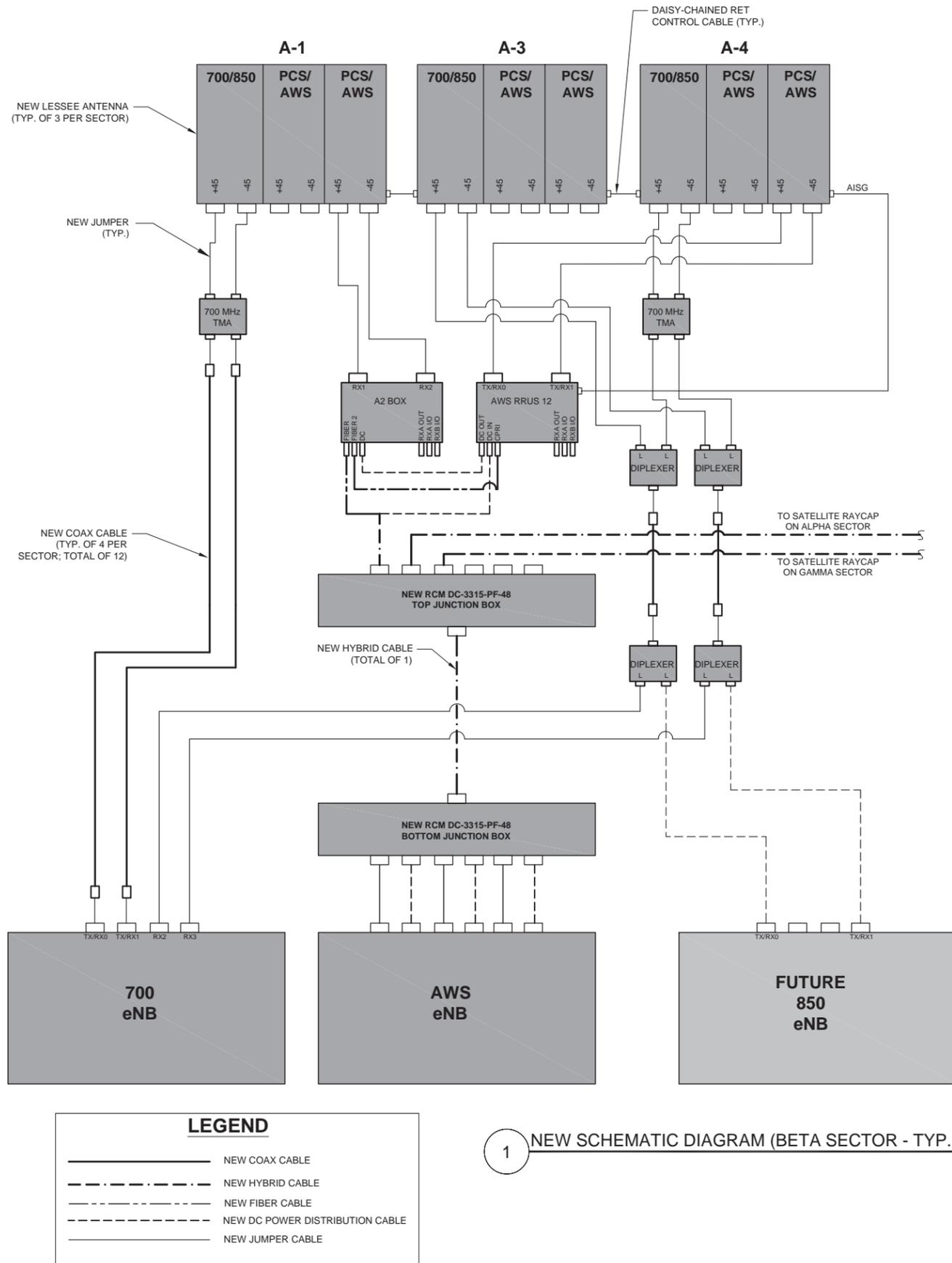
DRAWN BY: NC      CHECKED BY: PS  
CHECKED BY: RH      APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ECR FORM AND  
COMBINER - CABLE DATA**

SHEET NUMBER:  
**A-3**



**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC      CHECKED BY: PS  
CHECKED BY: RH      APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ANTENNA PLAN &  
SCHEMATIC DIAGRAM**

SHEET NUMBER:  
**A-3A**



**SBNHH-1D65B**

Andrew® Tri-band Antenna, 698-896 and 2x 1695-2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

**General Specifications**

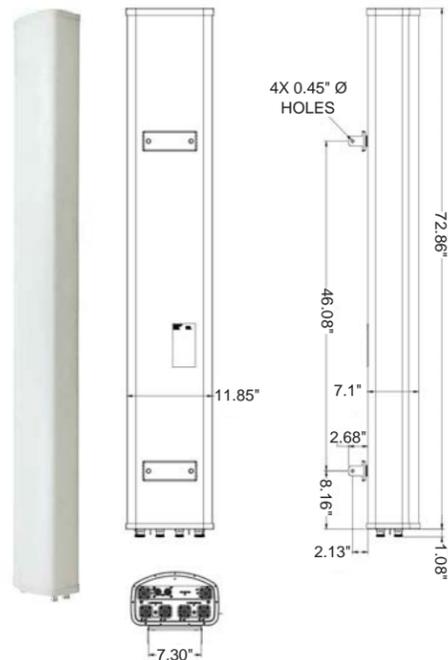
Antenna Brand	Andrew®
Antenna Type	DualPol® multiband with internal RET
Band	Multiband
Brand	DualPol®   Teletilt®
Operating Frequency Band	1695 - 2360 MHz   698 - 896 MHz
Performance Note	Outdoor usage

**Mechanical Specifications**

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Aluminum   Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h   150.0 mph

**Dimensions**

Depth	181.0 mm   7.1 in
Length	1851.0 mm   72.9 in
Width	301.0 mm   11.9 in
Net Weight	18.4 kg   40.6 lb



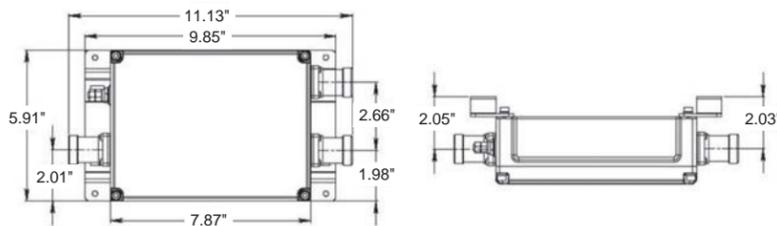
1 NEW ANDREW ANTENNA DETAILS (SBNHH-1D65B)

SCALE: N.T.S.



**Dimensions**

Depth	66.5 mm   2.6 in
Height	200.0 mm   7.9 in
Volume	2.0 L
Width	150.0 mm   5.9 in
Weight, without mounting hardware	3.0 kg   6.6 lb



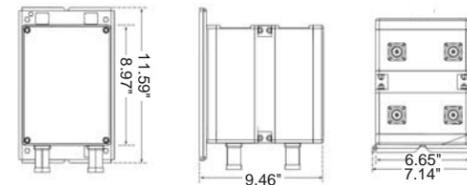
2 NEW ANDREW DIPLEXER DETAILS (CBC78-DF-8-DCB)

SCALE: N.T.S.



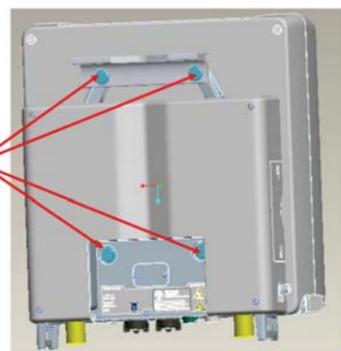
**Mechanical**

Size (H x W x D)	9" x 6.7" x 8.9"
Weight	28 lbs
Color	Off-white
Connectors: RF	Long Neck 7/16 DIN Female
Mounting	Pedestal, Pole, Wall; Mounting bracket provided
Temperature Range	-40°C to +65°C
Weather Rating (IEC 60529)	IP67



3 NEW WESTELL TMA DETAILS (AWC-TTMA-700C-VG)

SCALE: N.T.S.



S1 4 screws

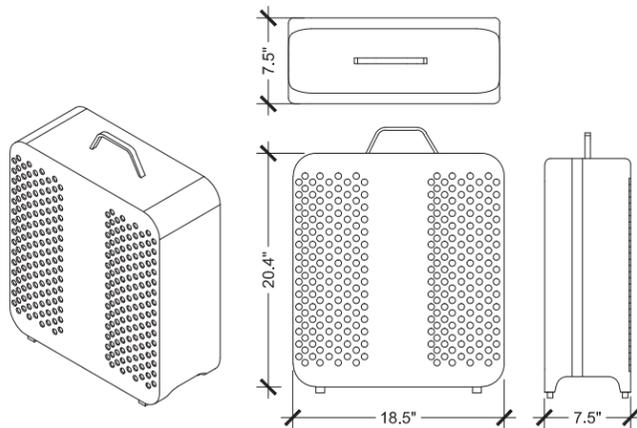


S1 Screw: SXA 215 3525/0550 (included with the RRUS A2)

Band	PCS	AWS
Product Name	RRUS A2 B2	RRUS A2 B4
Product Number	KRC 161 286/1	KRC 161 290/1
TX power	N/A	N/A
RX branches	2	2
Dimensions (HxWxD)	16.4"x15.1"x3.4"	16.4"x15.1"x3.4"
Weight	22 lbs	22 lbs
HW Availability	Jan. '14	Jan. '14
SW Dependency	L13A	L13A

4 RRUS A2

SCALE: N.T.S.

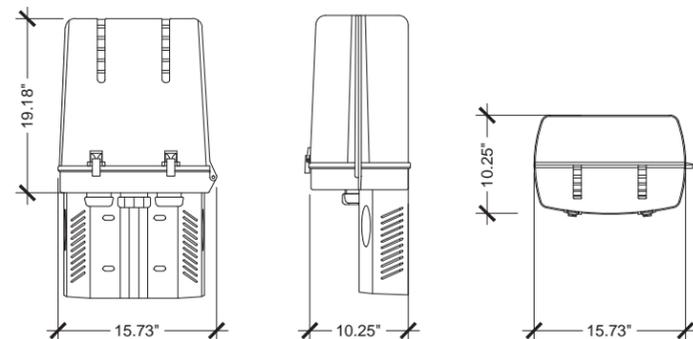


- > GSM, WCDMA, LTE
- > 8 carriers over 40 MHz IBW
- 4 carriers WCDMA, LTE
- > Up to 20 MHz LTE
- > Up to 2 x 60 W
- > IBW = up to 40 MHz
- > 20.4"x18.5"x7.5"
- > 50 lbs
- > 58 lbs in Extranet description

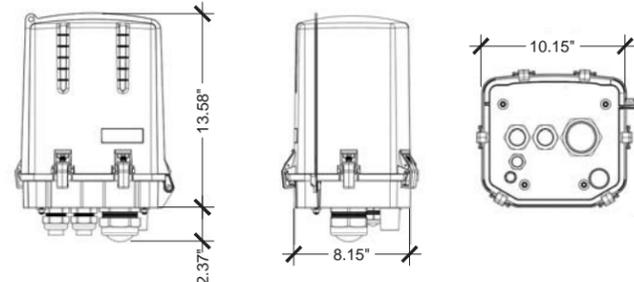
5 NEW ERICSSON RRUS 12-AWS DETAILS

SCALE: N.T.S.

**MAIN RAYCAP (32.0 LBS)**



**SATELLITE RAYCAP (14 LBS)**



6 NEW RAYCAP DETAILS

SCALE: N.T.S.

**GTE WIRELESS  
MIDWEST, INC.**

d/b/a VERIZON WIRELESS

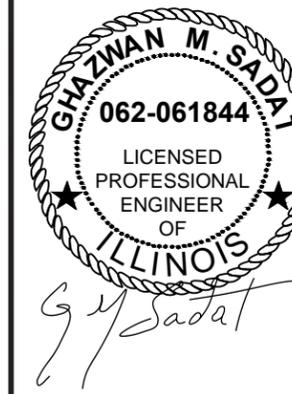
CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011-D.B.A.

**CONCORDIA WIRELESS, INC.**

361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS

CHECKED BY: RH APPROVED BY: GMS

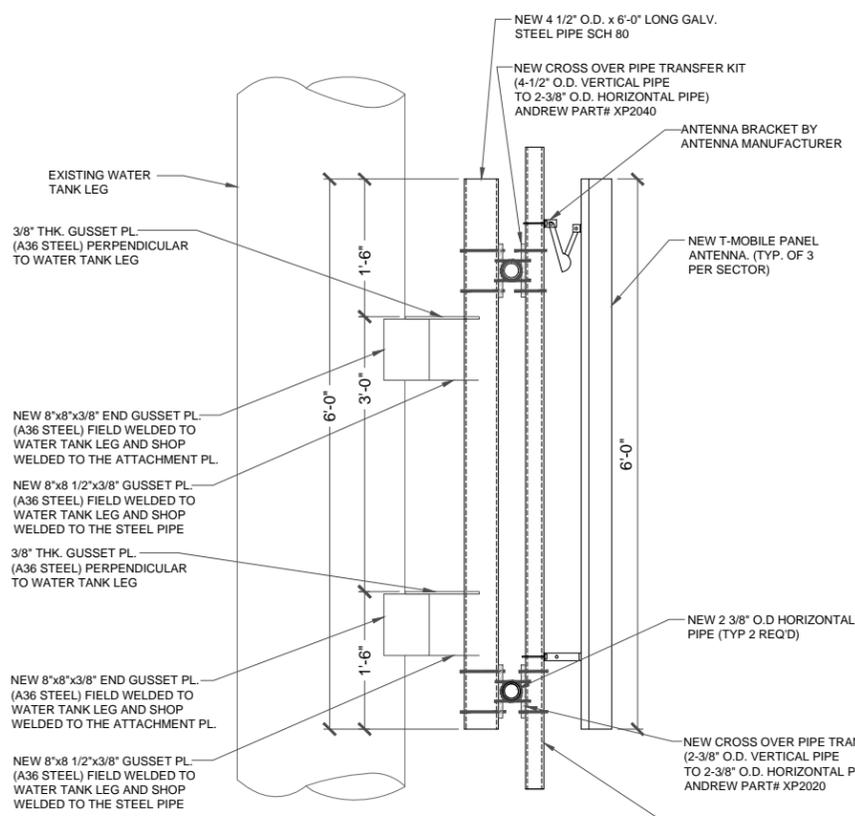


LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

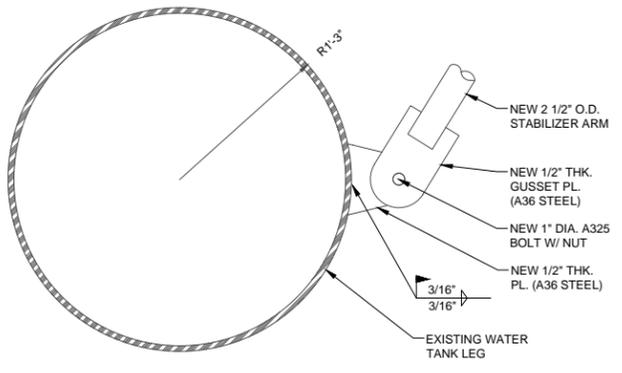
SHEET TITLE:  
**EQUIPMENT DETAILS**

SHEET NUMBER:

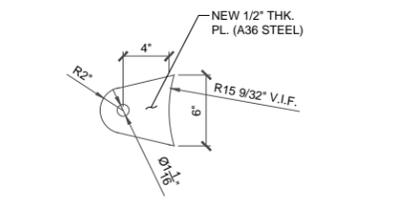
**A-3B**



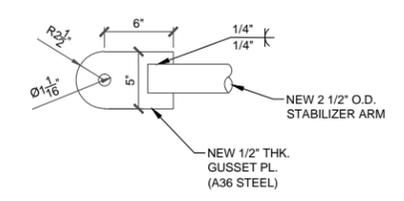
**1 SECTION**  
SCALE: 1"=1'-0" (1"=2'-0" IF 11"x17" SCALE)



**2 STABILIZER PIPE MOUNT DETAIL**  
SCALE: 1"=1'-0" (1"=2'-0" IF 11"x17" SCALE)



**3 GUSSET PL. DETAIL**  
SCALE: 1"=1'-0" (1"=2'-0" IF 11"x17" SCALE)



**4 GUSSET PL. DETAIL & STABILIZER ARM**  
SCALE: 1"=1'-0" (1"=2'-0" IF 11"x17" SCALE)

**GENERAL WELDING NOTES:**

1. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
2. COMPLY WITH THE AWS D1.1 STRUCTURAL WELDING CODE, ANSI/AWWA D100-96 (LATEST EDITION THEREOF), "AWWA STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE" AND FEDERAL, STATE, AND LOCAL CODES, DURING CONSTRUCTION DESIGN AND FABRICATION.
3. MAKE ALL WELDS TO THE TANK WALL WITH E7018 LOW HYDROGEN ROD. WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND SMOOTH ALL WELDS SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER THE WELD."
4. BEFORE WELDING, REMOVE ALL COATINGS WITHIN 6" OF THE AREA TO BE WELDED.
5. USE ASTM A-36 CARBON STEEL FOR ALL STRUCTURAL STEEL; USE A-307 BOLTS UNLESS OTHERWISE SPECIFIED.
6. FIELD FIT UP PROBLEMS OR CHANGES TO THE PLAN SHEETS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

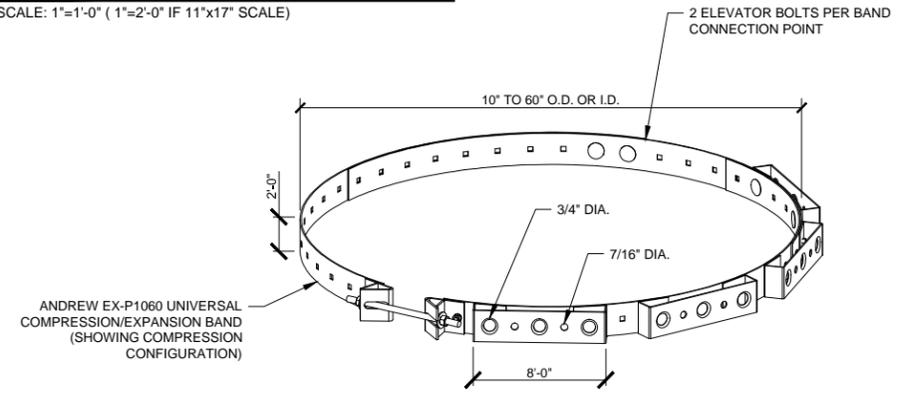
**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.

**CONCORDIA WIRELESS, INC.**

361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS  
CHECKED BY: RH APPROVED BY: GMS



**7 VERTICAL COAX/FIBER MOUNTING DETAIL**  
SCALE: N.T.S.

**NOTES:**

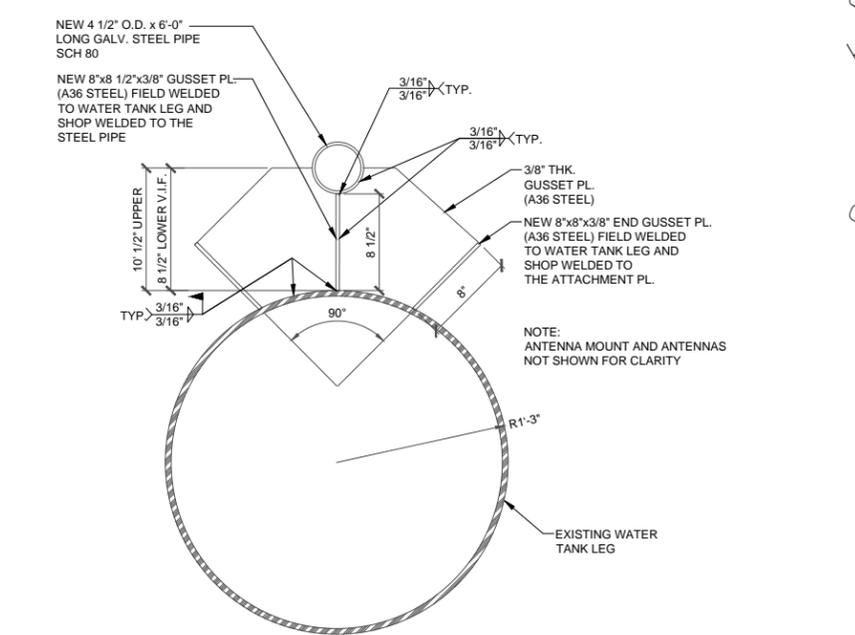
1. MOUNT HORIZONTAL COAX HANGERS OR EQUIVALENT 5' O.C. TO TOWER STRUTS
2. VERIFY CHANNEL ORIENTATION AND SIZE FOR MOUNT PREPARATION
3. PAINT TO MATCH TOWER
4. ERICSSON EQUIPMENT CANNOT BE PAINTED TO MATCH



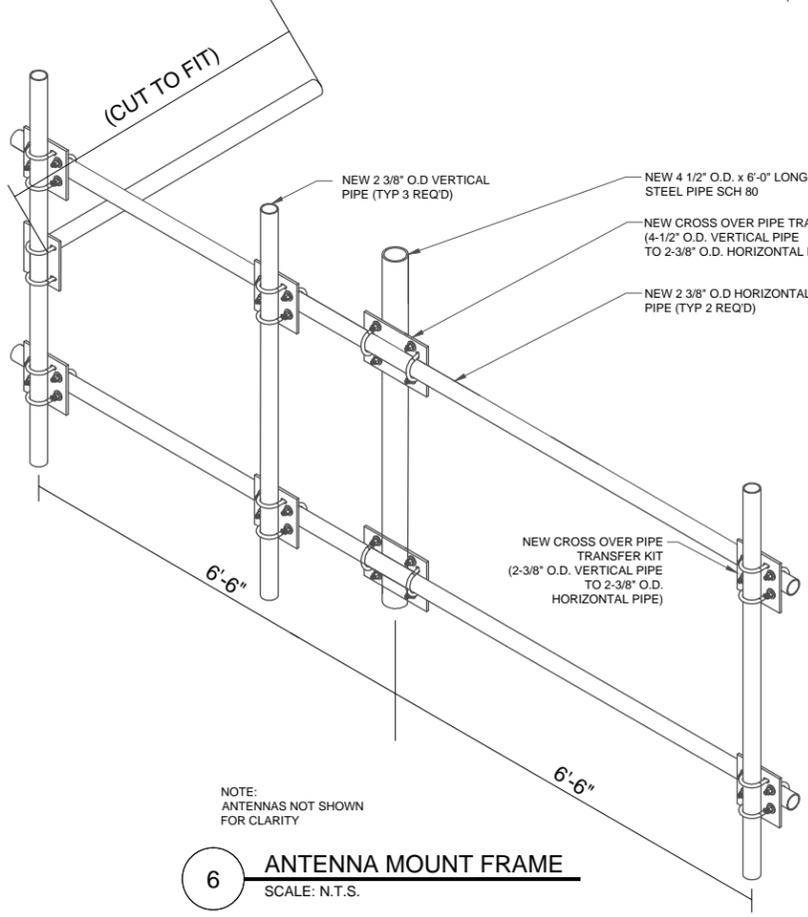
LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ANTENNA MOUNTING &  
CABLE ROUTING DETAILS**

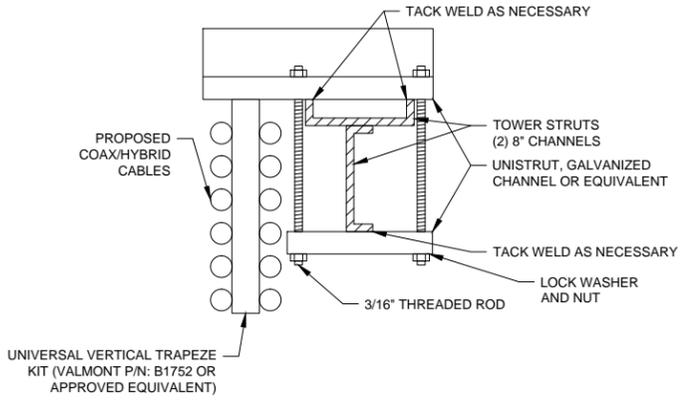
SHEET NUMBER:  
**A-4**



**5 ANTENNA MOUNT DETAIL**  
SCALE: 1"=1'-0" (1"=2'-0" IF 11"x17" SCALE)



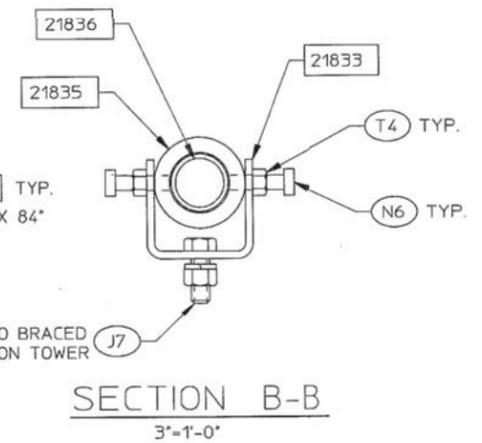
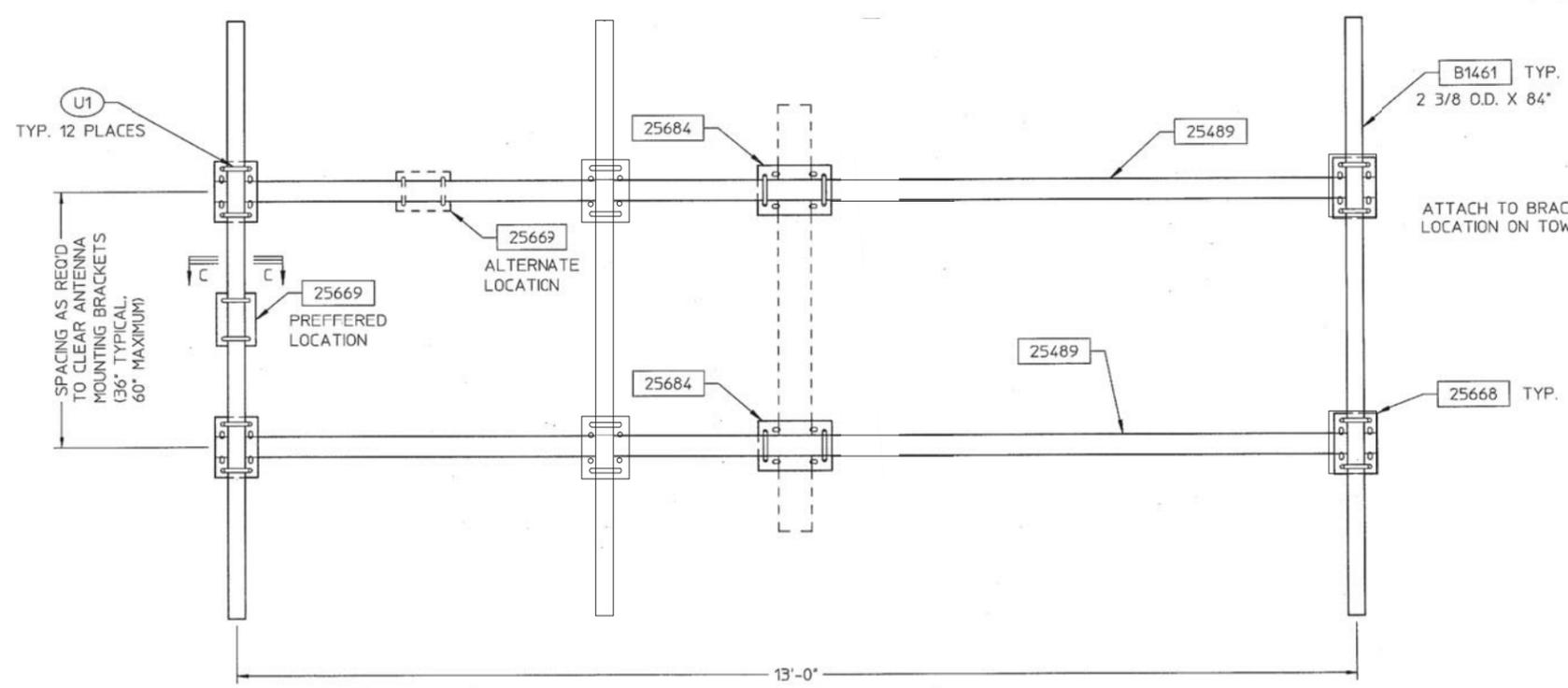
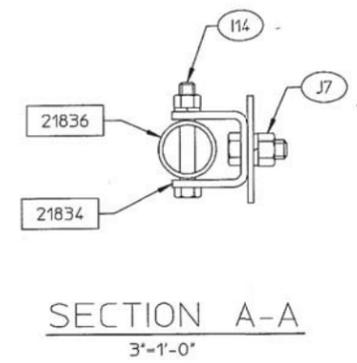
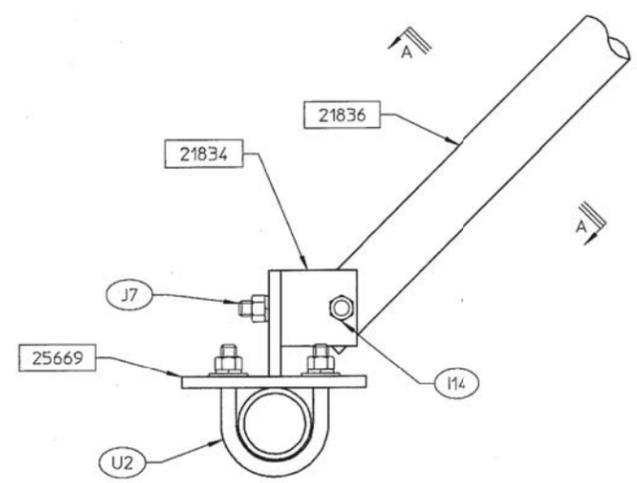
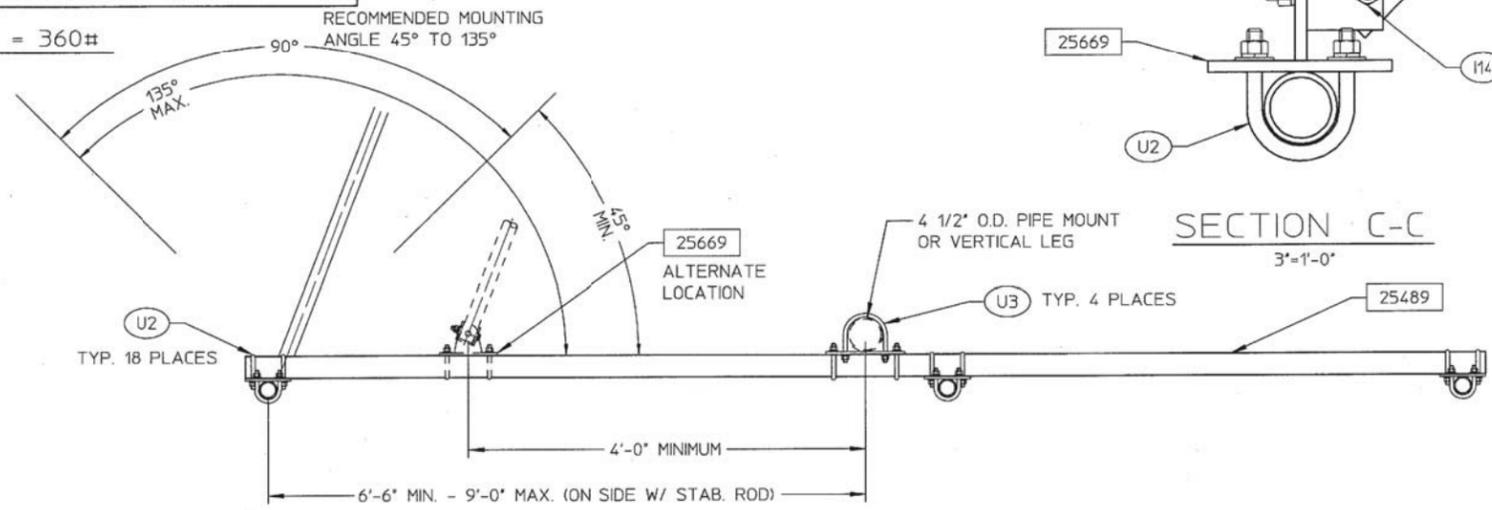
**6 ANTENNA MOUNT FRAME**  
SCALE: N.T.S.



**8 HORIZONTAL RUN CABLE MOUNTING DETAIL**  
SCALE: N.T.S.

WIRELESS ANTENNA FRAME PARTS LIST		
MARK	QTY	DESCRIPTION
21833	1	BRACKET
21834	1	BRACKET
21835	1	COLLAR
21836	1	PIPE
25489	2	2 7/8 O.D. PIPE
25668	6	PLATE
25669	1	PLATE WELDMENT
25684	2	PLATE
B1461	3	2 3/8 O.D. X 84" PIPE
I14	1	1/2" x 3 1/2" G5 BOLT, NUT & L.W.
J7	2	5/8" x 1 3/4" G5 BOLT, NUT & L.W.
N6	2	1/2" x 1 1/2" SQ HD SET SCREW
T4	2	1/2" A563 GR. A HEX NUT
U1	12	1/2" x 2 1/2" x 4 U-BOLT, W/2 NUT'S, L.W.'S & F.W.'S
U2	18	1/2" x 3 x 5 U-BOLT, W/2 NUT'S, L.W.'S & F.W.'S
U3	4	1/2" x 4 5/8 x 7 U-BOLT, W/2 NUT'S, L.W.'S & F.W.'S

TOTAL GALV. WEIGHT = 360#



NOTES:

THIS MOUNT WILL ACCOMMODATE FOUR ANTENNAS WITH 8 SQ. FT. FLAT PLATE EQUIVALENT AREA EACH (32 SQ. FT. TOTAL) IN WINDS UP TO 100 MPH WITH 1/2" OF RADIAL ICE PER EIA RS-222-C.

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD.  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS  
CHECKED BY: RH APPROVED BY: GMS

FOR REFERENCE ONLY

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ANTENNA MOUNTING  
FRAME BY MICROFLECT**

SHEET NUMBER:  
**A-4A**

1 ANTENNA MOUNTING FRAME (31-99327)  
SCALE: N.T.S.

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD.  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

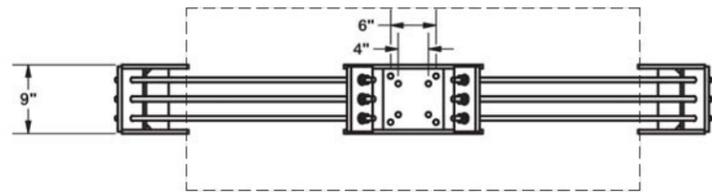
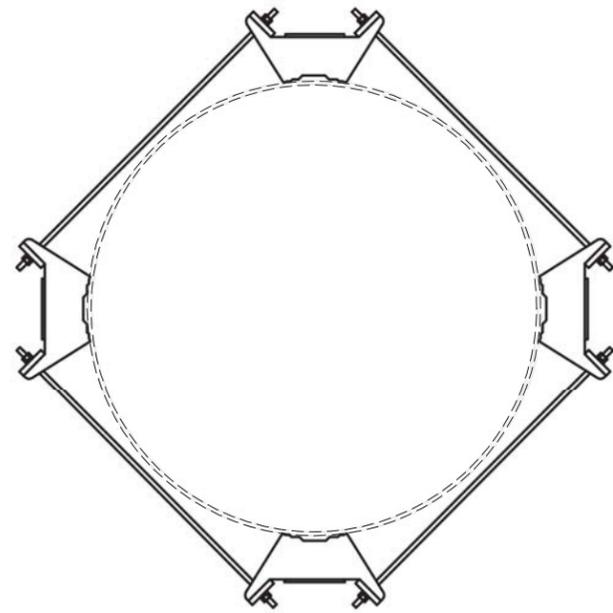
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CHECKED BY: RH      APPROVED BY: GMS

FOR REFERENCE  
ONLY

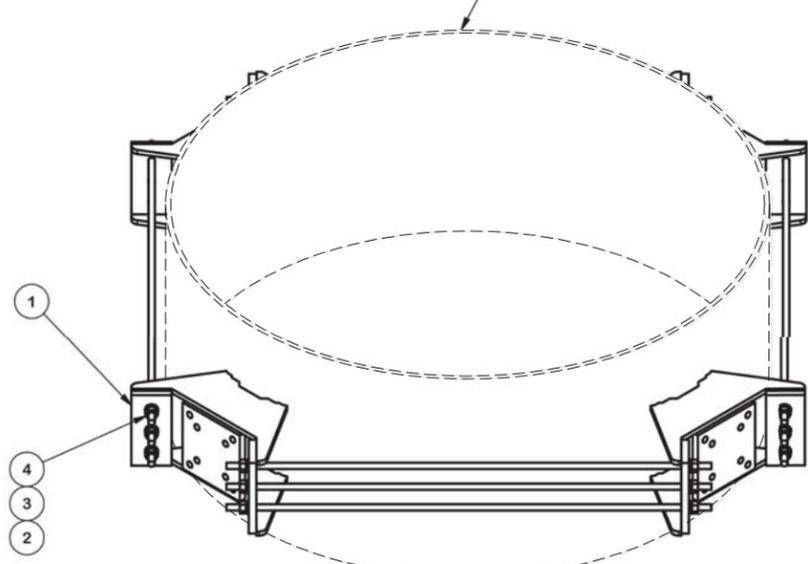
LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**NEW RRU/RAYCAP MOUNT  
SPECIFICATIONS BY SITE PRO 1**

SHEET NUMBER:  
**A-4B**

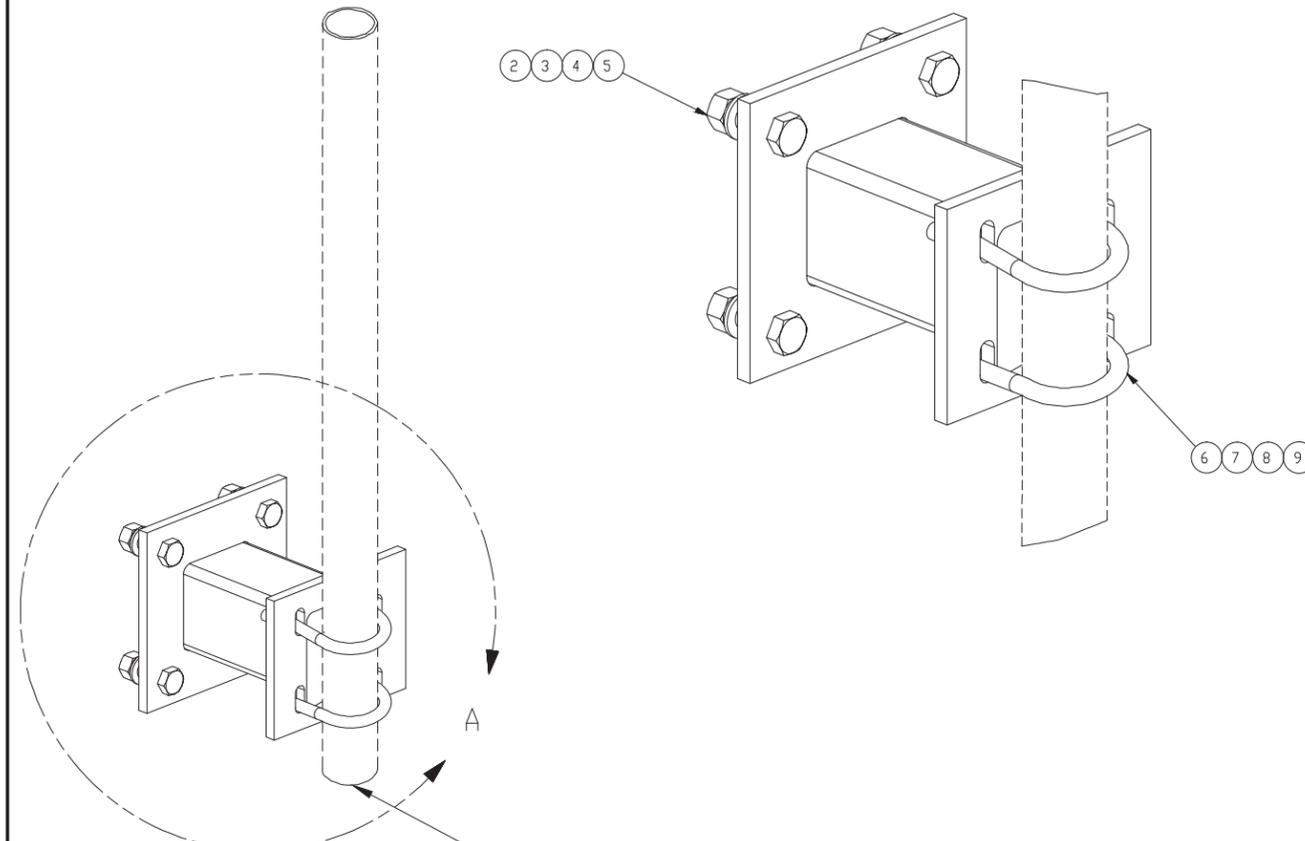


30" DIAMETER WATER TOWER  
LEG (REF)



ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-162290	QUAD BRACKET		54.48	217.94
2	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
3	24	G58LW	5/8" HDG LOCKWASHER		0.03	0.63
4	24	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.12
5	12	G58R-60	5/8" x 60" THREADED ROD (HDG.)		0.35	4.22
					TOTAL WT. #	285.23

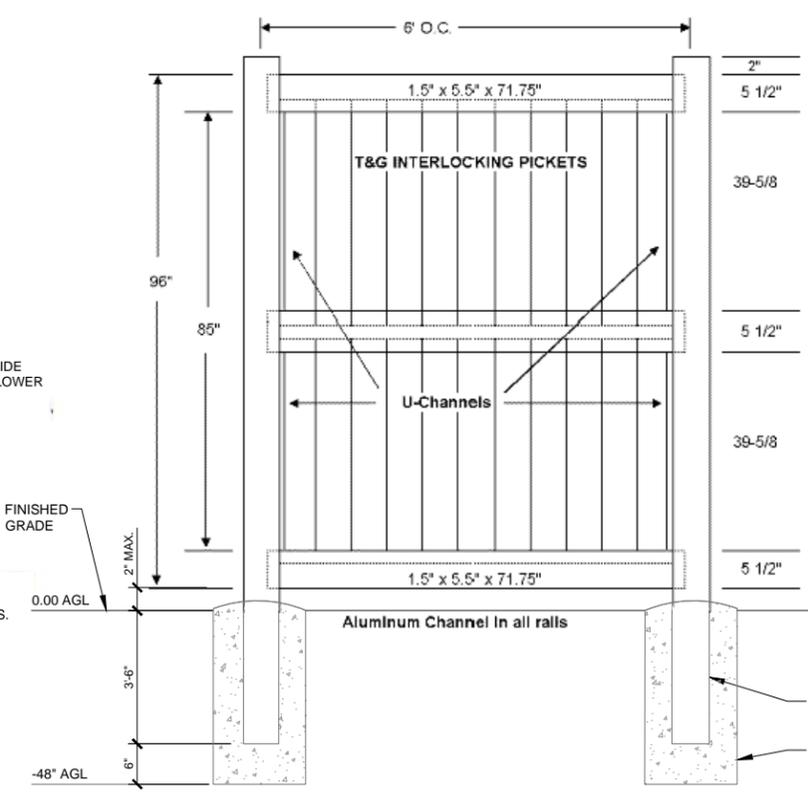
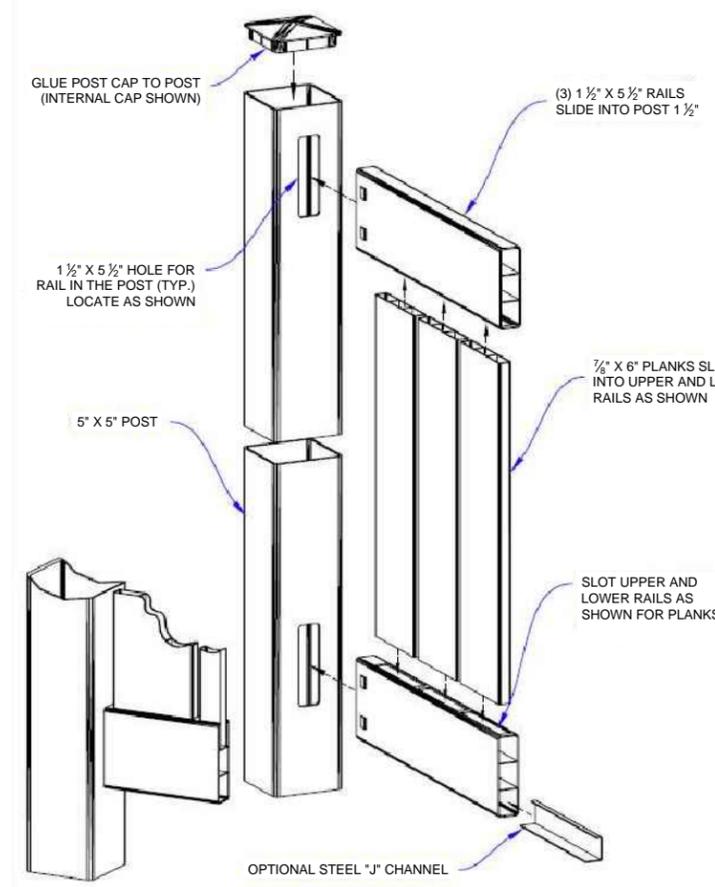
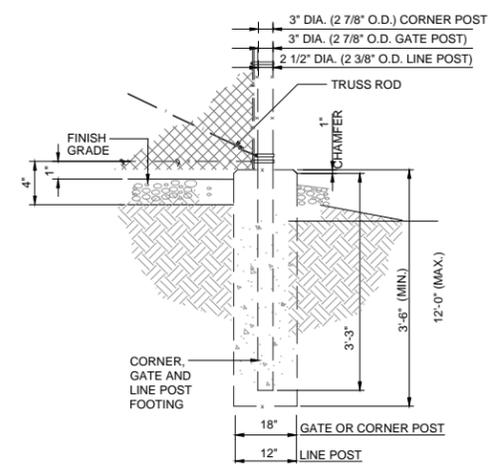
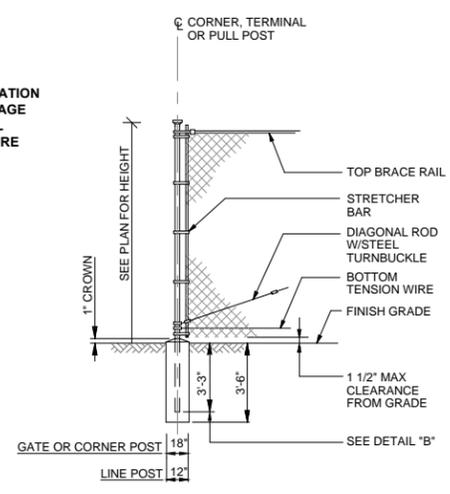
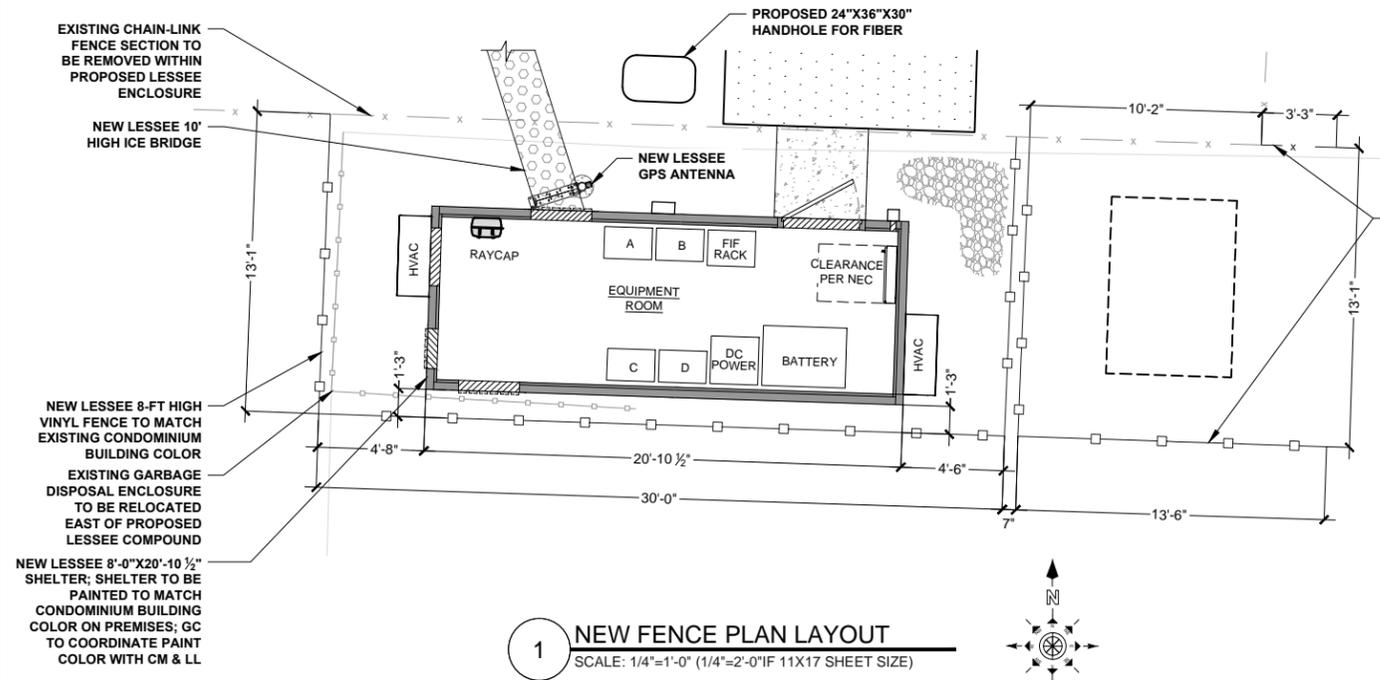
**1** NEW QUAD UNIVERSAL RING MOUNT (UQB4)  
SCALE: N.T.S.



2-3/8" OD PIPE, 2-7/8"  
OD PIPE OR 3-1/2" OD  
PIPE, PIPE NOT  
INCLUDED

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-WWM01	8" STAND-OFF ARM / WALL MOUNT		18.12	18.12
2	4	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT	2 1/2 in	0.33	1.34
3	4	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.14
4	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
5	4	A58NUT	5/8" HDG A325 HEX NUT		0.13	0.52
6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	1.31
6	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.70	1.39
6	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	1.54
7	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
8	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
9	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	26.06

**2** NEW 8" STAND-OFF ARM (MM01)  
SCALE: N.T.S.



MATERIAL PER 6' x 8' VINYL PRIVACY FENCE SECTION (WEATHERABLES - AUGUSTA OR APPROVED EQUIVALENT)		
QUANTITY	ITEM	DIMENSION
3	RAIL	1-1/2" x 5-1/2" x 71.75"
22	PICKETS	7/8" x 6-1/2" x 42-1/2"
2	POSTS	5" x 5" x 140"



**4 TYPICAL INSTALLATION OF VINYL FENCE**  
SCALE: N.T.S.

**GTE WIRELESS MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

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**CONCORDIA WIRELESS, INC.**

361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS  
CHECKED BY: RH APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**NEW FENCE DETAILS**

SHEET NUMBER:  
**A-5**

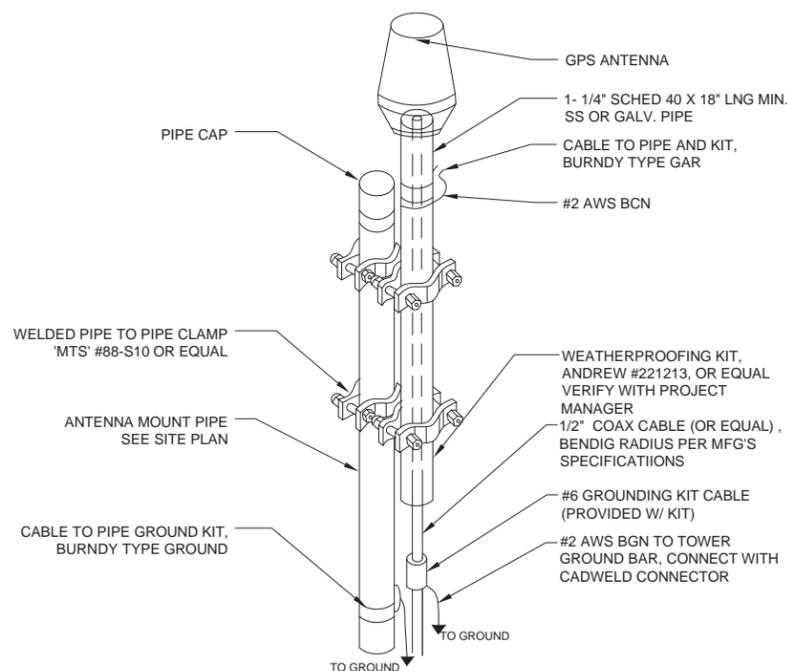
**NOTES:**

1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" DIA. SCH. 40 GALVANIZED OR STAINLESS STEEL PIPE. THE PIPE MUST BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MIN. OF 18') USING A WAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH PERPENDICULAR CUT. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNAS MOUNT.

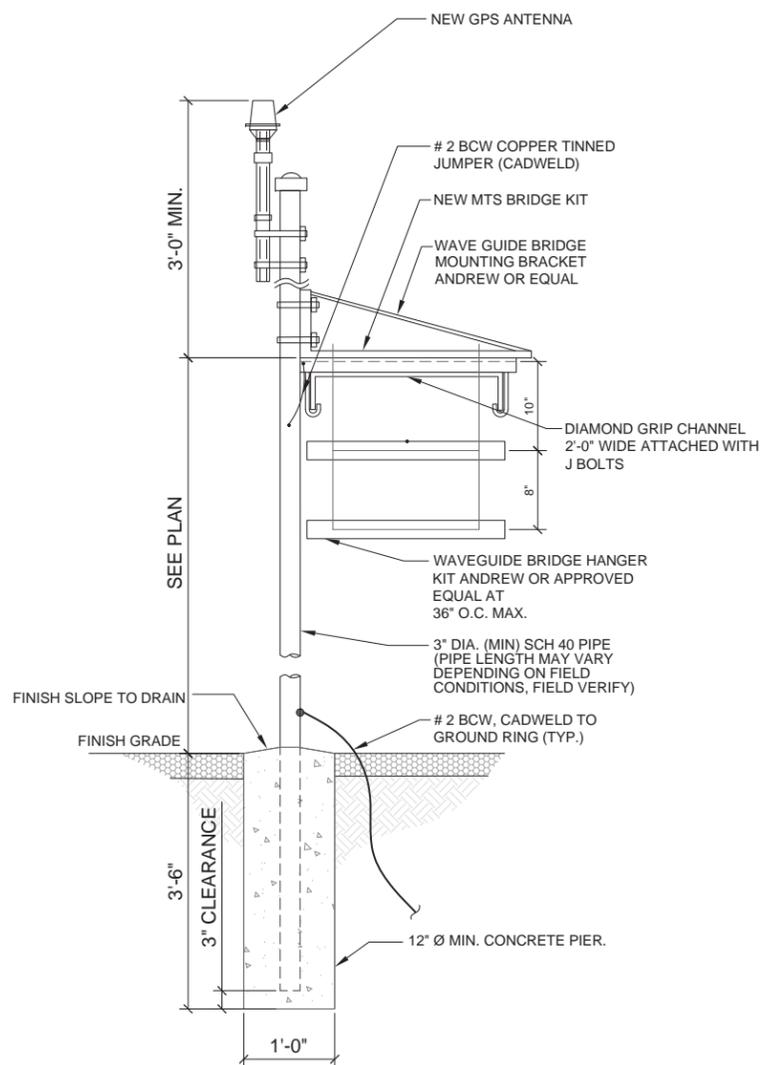
2. THE MOUNTING PLATE SHALL BE FABRICATED AS SHOWN AND ATTACHED TO THE APPROPRIATE SUPPORT STRUCTURE USING U-BOLTS. THE SUPPORT PIPE FOR THE GPS SHALL BE MOUNTED USING OVERSIZED U-BOLTS TO ALLOW ADJUSTMENT. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED WITHIN 2" OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2" LEVEL.

3. INSTALL GPS ANTENNA AS SPECIFIED ON SITE PLAN. IF INSTALLING ON ICE/CABLE BRIDGE ENSURE THAT GPS IS A MINIMUM OS 10' ABOVE GRADE, ON THE FURTHEST POST FROM THE TOWER TO ATTAIN MAXIMUM COVERAGE.

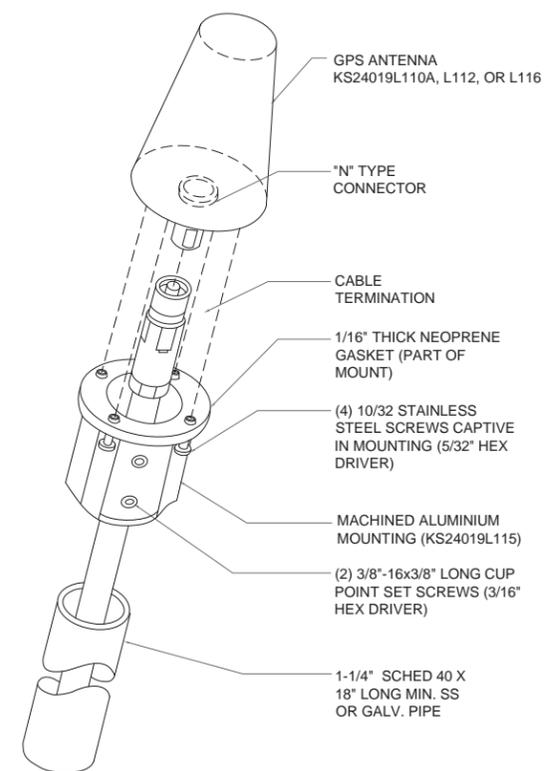
4. GPS ANTENNA TO BE INSTALLED BY VERIZON OPERATIONS TEAM.



1 **GPS ANTENNA DETAIL**  
SCALE: N.T.S.



2 **GPS ANTENNA & ICEBRIDGE SECTION**  
SCALE: N.T.S.



3 **GPS ANTENNA MOUNTING**  
SCALE: N.T.S.

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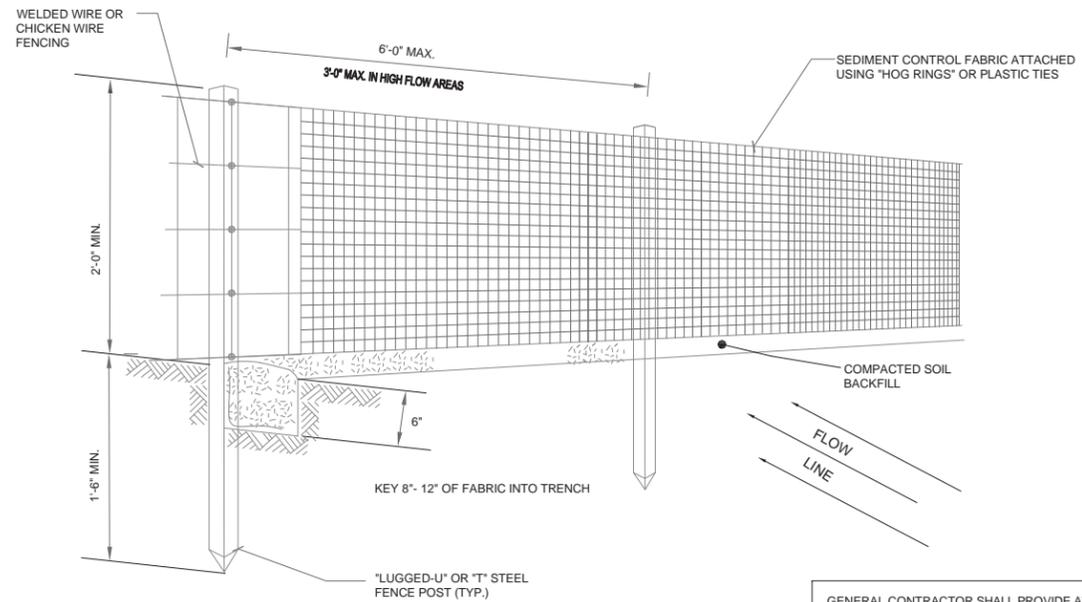
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CHECKED BY: RH	APPROVED BY: GMS



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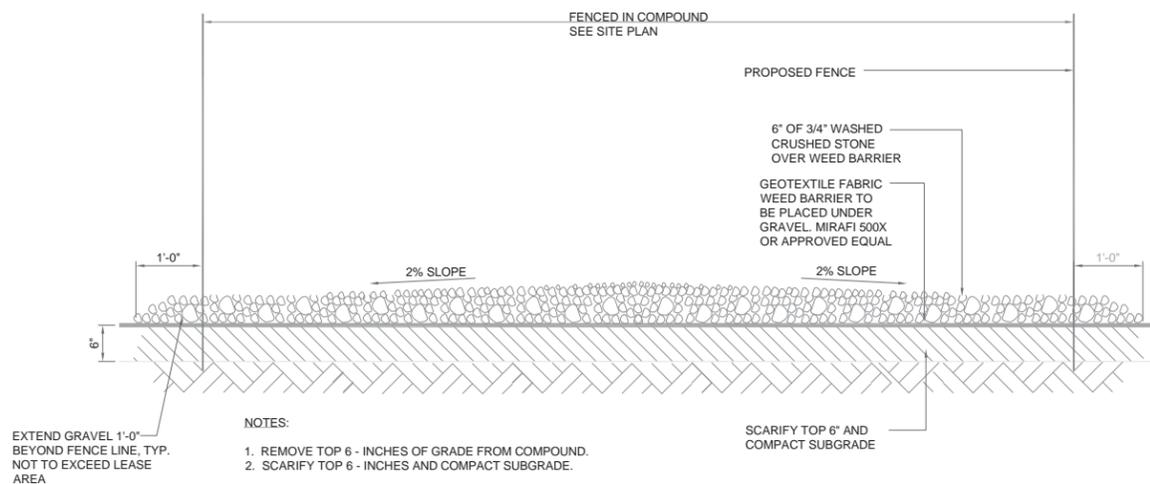
SHEET TITLE:  
**ICE BRIDGE & GPS  
ANTENNA DETAILS**

SHEET NUMBER:  
**A-5A**

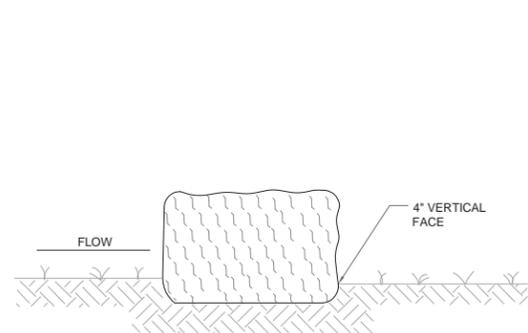


**1 SOIL EROSION CONTROL**  
SCALE: N.T.S.

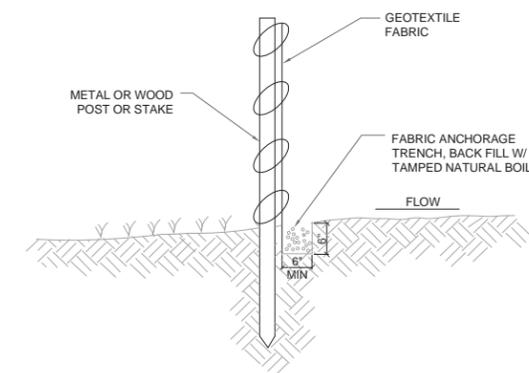
GENERAL CONTRACTOR SHALL PROVIDE AT HIS/HER OWN EXPENSE ANY AND ALL SOIL EROSION CONTROL MEASURES/FENCING AROUND ALL AREAS THAT HAVE A GRADE IN EXCESS OF 5% OR WHERE THERE IS POTENTIAL FOR SOIL EROSION AND SOIL RUN-OFF DURING THE CONSTRUCTION PHASE OF THE PROJECT



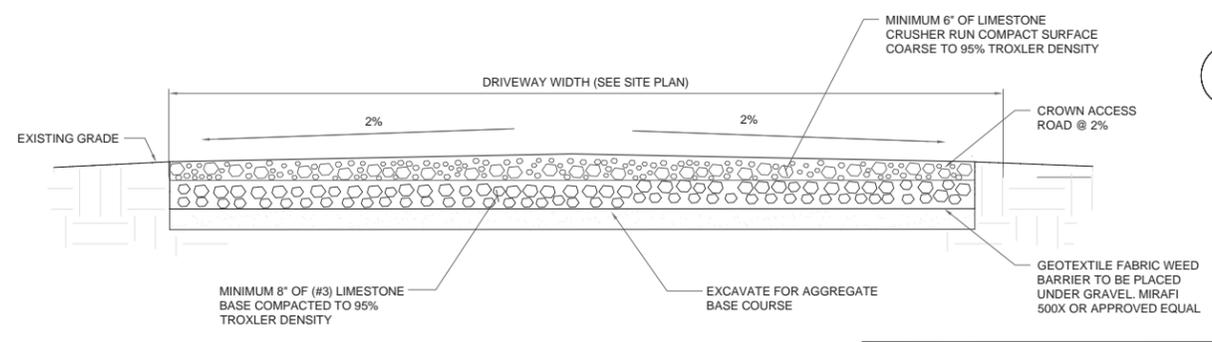
**3 SITE COMPOUND GRAVEL DETAIL**  
SCALE: N.T.S.



**4 EMBEDDING DETAIL**  
SCALE: N.T.S.

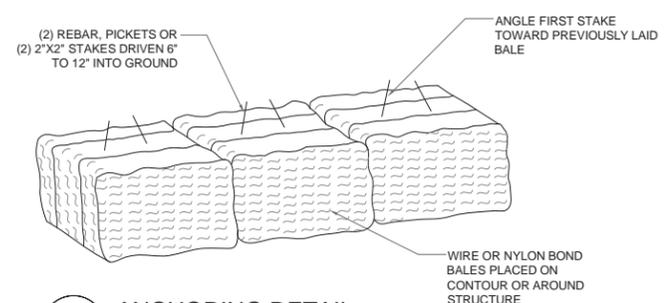


**5 SILT FENCE DETAIL**  
SCALE: N.T.S.



**2 GRAVEL ACCESS ROAD AND PARKING AREA DETAIL**  
SCALE: N.T.S.

NOTE: 1. EXCAVATED MATERIAL SHALL BE REMOVED AND DEPOSITED OFF-SITE.  
2. GRADE DRIVEWAY PARKING AREA & TOWER COMPOUND @ 2% SLOPE TO PROVIDE DRAINAGE



**6 ANCHORING DETAIL**  
SCALE: N.T.S.

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MAIN: (847) 981-0801

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CHECKED BY: RH APPROVED BY: GMS



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ARCHITECTURAL  
& CIVIL DETAILS**

SHEET NUMBER:  
**A-5B**

**CLEANING AND PAINTING INSTRUCTIONS  
500M GALLON WATER TANK  
3000 24TH STREET  
CITY OF ROCK ISLAND, IL**

**1.0 SPECIFICATION**

All materials, workmanship, surface preparation and painting shall be in accordance with AWWA D102-latest edition, SSPC PA1-latest revision, paint manufacturer's specifications, these instructions and the requirements and intent of the applicable section of the Contract Specifications. Information in these instructions may modify and take precedent over any of the above.

Contract Specifications prepared by: Field Painting contractor:

McCLURE ENGINEERING ASSOC., INC.  
4700 KENNEDY DRIVE  
MOLINE, IL 61265  
Ali Gharamti (309-792-9350)

CB&I WATER FIELD PAINTING DIVISION  
1505 N. DIVISION STREET  
PLAINFIELD, IL 60544  
Dave Hartman (815-439-3100)

**2.0 SHOP CLEANING AND PAINTING**

**2.1 SHOP CLEANING**

All surfaces to be painted shall be cleaned, as required to remove all mud, dirt, oil, grease and foreign materials and abrasive blasted as follows:

Interior "wet" surfaces – Near White Blast per SSPC-SP10  
Interior "dry" surfaces – Commercial Blast per SSPC-SP6  
Exterior surfaces – Commercial Blast per SSPC-SP6

All surfaces abrasive blast cleaned shall be painted within the same day and before any evidence of rust or discoloration

**2.2 SHOP PAINTING**

**2.2.1 Interior "Wet" Surfaces**

One prime coat of Tnemec Pota-Pox Plus N140 or N140F-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 6.0 – 7.9 mils.

**2.2.2 Interior "Dry" Surfaces**

One prime coat of Tnemec Pota-Pox Plus N140 or N140F-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 6.0 – 7.9 mils.

**2.2.3 Exterior Surfaces**

One prime coat of Tnemec Pota-Pox Plus N140 or N140F-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 6.0 – 7.9 mils.

Note: A four (4) inch unpainted margin shall be left at all edges to be field welded.

See attached Tnemec Product Data Sheets for information and instruction on mixing, thinning, environment, application and dry times. Particular attention is called to the Product Data Sheet thinning restrictions necessary to meet ANSI/SNF Standard 61 requirements (for the interior wet system). Suggested wet film thickness shown above is based on unthinned paint.

**3.0 FIELD CLEANING AND PAINTING**

**3.1 FIELD CLEANING**

All surfaces shall be cleaned, as required to remove all weld spatter, mud, dirt, oil, grease. Weld seams, unpainted shop margins and primer abrasions shall be spot blasted as follows:

Interior "wet" surfaces – Near White Blast per SSPC-SP10  
Interior "dry" surfaces – Commercial Blast per SSPC-SP6  
Exterior surfaces – Commercial Blast per SSPC-SP6

All surfaces abrasive blast cleaned shall be painted within the same day and before any evidence of rust or discoloration

**3.2 FIELD PAINTING**

**3.2.1 Interior "Wet" Surfaces**

One spot coat of Tnemec Pota-Pox 20 or FC20-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 7.0 – 8.8 mils.

One full coat of Tnemec Pota-Pox 20 or FC20-15BL (Tank White)  
Dry film thickness: 5.0 – 6.0 mils  
Suggested wet film thickness: 8.8 – 10.7 mils.

Total dry film thickness: 9.0 – 11.0 mils.

**3.2.2 Interior "Dry" Surfaces**

One spot coat of Tnemec Pota-Pox 20 or FC20-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 5.4 – 8.9 mils.

One full coat of Tnemec Pota-Pox 20 or FC20-15BL (Tank White)  
Dry film thickness: 5.0 – 6.0 mils  
Suggested wet film thickness: 8.9 – 10.7 mils.

Total dry film thickness: 9.0 – 11.0 mils.

**3.2.3 Exterior System**

One spot coat of Tnemec Pota-Pox 20 or FC20-1255 (Beige)  
Dry film thickness: 4.0 – 5.0 mils  
Suggested wet film thickness: 5.4 – 8.9 mils.

One full coat of Tnemec Epoxoline Series 66 or 161 (color 10% lighter than finish color)  
Dry film thickness: 2.0 – 3.0 mils  
Suggested wet film thickness: 3.5 – 5.3 mils.

One full coat of Tnemec Endura-Shield Series 73 (color selection by Owner)  
Dry film thickness: 2.0 – 3.0 mils  
Suggested wet film thickness: 3.5 – 5.3 mils.

One full coat of Tnemec Endura-Clear Series 76  
Dry film thickness: 1.0 – 2.0  
Suggested wet film thickness: 1.5 – 3.0 mils.

Total dry film thickness: 9.0 – 12.0 mils.

Note: Shop primed surfaces shall be cleaned of grease, oily material and other foreign matter.

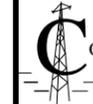
See attached Tnemec Product Data Sheets for information and instruction on mixing, thinning, environment, application and dry times. Particular attention is called to the Product Data Sheet thinning restrictions necessary to meet ANSI/SNF Standard 61 requirements (for the interior wet system). Suggested wet film thickness shown above is based on unthinned paint.

For non-immersion stainless steel, aluminum, and galvanized surfaces, no additional surface preparation or coating is required. For stainless steel, aluminum and galvanized surfaces in immersion, surface preparation shall be in accordance with paint manufacturer recommendations, and the interior wet coating system shall be applied.

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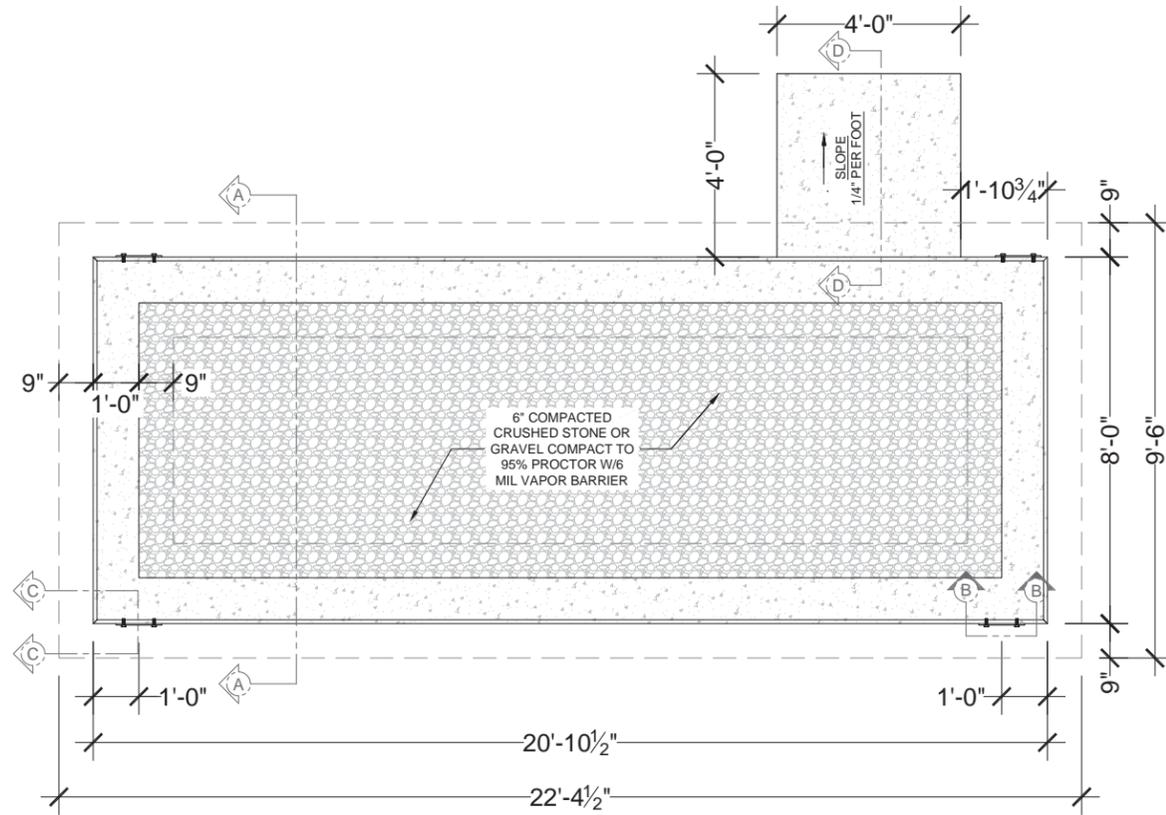
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CHECKED BY: RH	APPROVED BY: GMS



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**PAINT SPECIFICATION**

SHEET NUMBER:  
**PS-1**



**1 SHELTER FOUNDATION PLAN**  
SCALE: 1/2" = 1'-0" (1/2" = 2'-0" IF 11 X 17 SHEET SIZE)

**NOTES (EQUIPMENT ENCLOSURE FOUNDATION):**

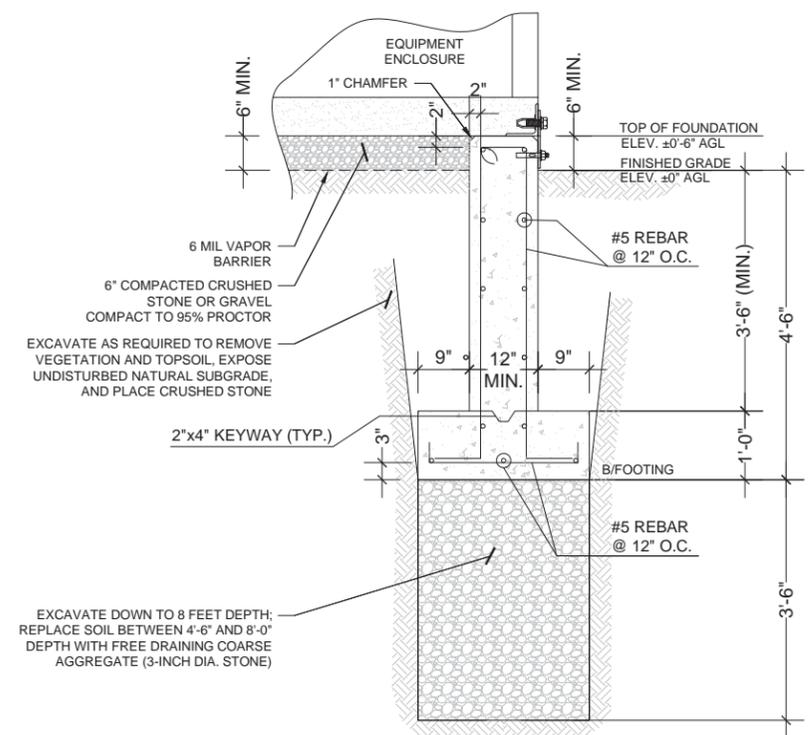
- REFER TO A-1 SHEET FOR ORIENTATION OF THE FOUNDATION.
- EQUIPMENT SHELTER FOUNDATION IS DESIGNED FOR THE FOLLOWING LOADS:  
SHELTER DEAD LOAD: 60,000 LBS  
ROOF LIVE LOAD: 105 PSF  
FLOOR LIVE LOAD: 150 PSF
- SLAB TO BE LEVEL  $\pm 1/4"$ .
- FOOTING TO EXTEND A MINIMUM OF 12" BELOW UNDISTURBED SOIL AND FROST LINE.
- SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.
- SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 27.
- CONCRETE STRENGTH SHALL BE A MINIMUM OF 5000 PSI.
- SUBGRADE PREPARATION:  
A. REMOVE ALL SOILS CONTAINING TOPSOIL, ORGANIC MATERIALS, AND/OR FILL MATERIALS FROM WITHIN AREA OF ENCLOSURE FOUNDATION.  
B. PROOF ROLL RESULTING SUBGRADE WITH A HEAVILY LOADED SINGLE AXLE ROLLER OR SIMILAR VEHICLE (20 TON LOAD). CONTRACTOR SHALL UNDERCUT AND REPLACE WITH ENGINEERED FILL. ALL LOOSE SOFT OR UNSTABLE AREAS REVEALED DURING PROOFROLLING AS DIRECTED BY THE TESTING AGENCY. CONTRACTOR SHALL INCLUDE ANTICIPATED UNDERCUT AND REPLACEMENT AS INDICATED IN THE GEOTECHNICAL REPORT AS PART OF THE BID.  
C. BACKFILL AND COMPACT THE AREA WITHIN THE BUILDING FOUNDATION BETWEEN RESULTANT SUBGRADE AND FOUNDATION WALL WITH APPROVED GRANULAR MATERIAL.
- FOUNDATION WALL SHALL BE BACKFILLED EVENLY ON EACH SIDE OF THE WALL OR WALLS SHALL BE ADEQUATELY BRACED BY THE CONTRACTOR UNTIL FLOOR SLAB HAS PLACED AND CURED FOR 72 HOURS MINIMUM.
- CONTRACTOR TO ENSURE FOUNDATION/SLAB ARE POURED TO MEET FLATNESS LEVEL TOLERANCES AS INDICATED IN ACI 4.5.6 AND 4.5.7
- CONTRACTOR SHALL NOTIFY THE CLIENT'S GEOTECHNICAL ENGINEER TO COORDINATE HAVING A FIELD REPRESENTATIVE ON SITE FOR TESTING AND INSPECTION.
- FOOTINGS SHALL BEAR ON VIRGIN SOIL OR COMPACTED FILL MATERIAL CAPABLE OF SUPPORTING A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF (SEE ACTUAL GEOTECH REPORT RESULTS THIS SHEET).

**NOTES (CONCRETE):**

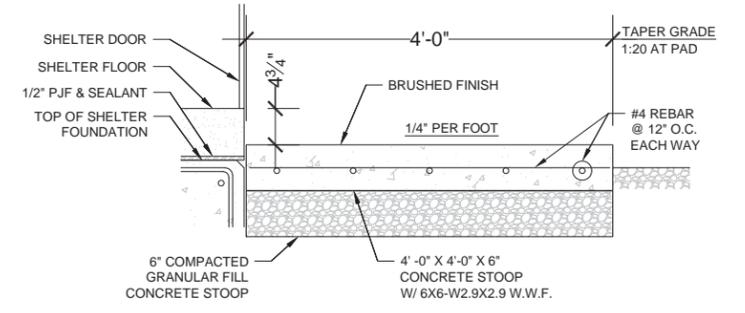
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITION. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICE.
- EXCEPT WHERE OTHERWISE INDICATED, CONCRETE SHALL BE NORMAL WEIGHT AND WITH MINIMUM 28-DAY COMPRESSIVE STRENGTHS OF  $F_c=5000$  PSI W/ACCELERANTS. ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

**SOIL BEARING CAPACITY PER GEOTECHNICAL REPORT (BY CONCORDIA WIRELESS DATED 11/19/15)**

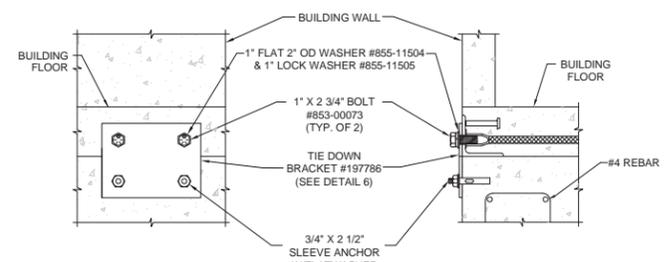
DEPTH RANGE (FT)	ESTIMATED DRY UNIT WEIGHT (PCF)	UNCONFINED COMPRESSIVE STRENGTH (TSF)
0-1	N/A	N/A
1-5.5	100	1.25-1.5
5.5-8	100	N/A
8-10.5	112	1.0
10.5-15	115	1.5



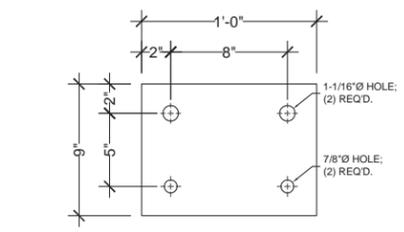
**2 SECTION "A-A"**  
SCALE: 3/4" = 1'-0" (3/4" = 2'-0" IF 11 X 17 SHEET SIZE)



**3 TYPICAL CONCRETE STOOP (SECTION "D-D")**  
SCALE: N.T.S.



**4 SECTION "B-B"**  
SCALE: N.T.S.



**6 TIE DOWN PLATE DETAIL**  
SCALE: N.T.S.

**5 SECTION "C-C"**  
SCALE: N.T.S.

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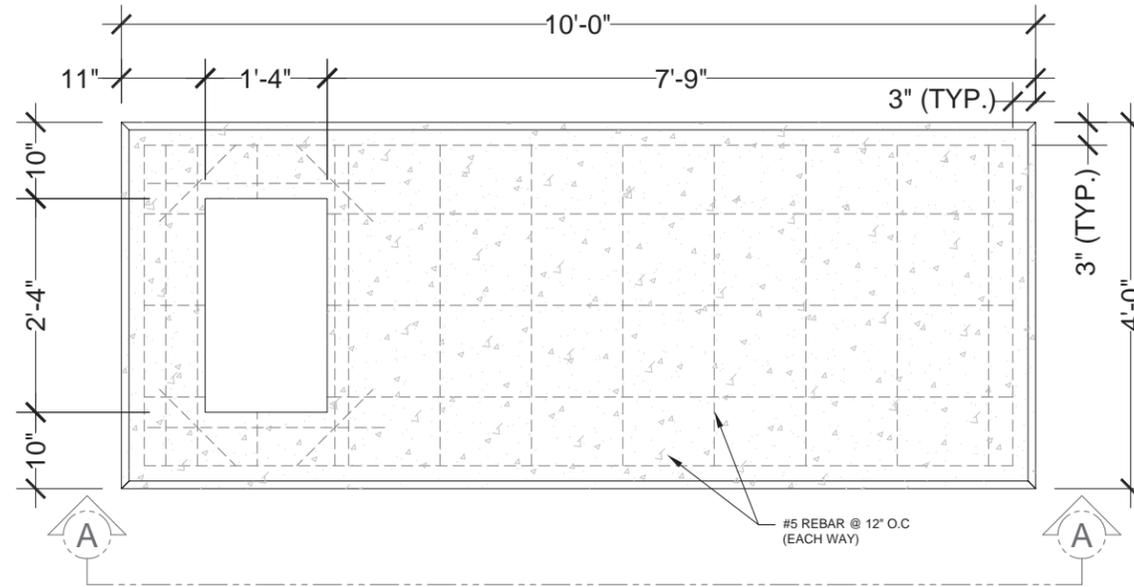
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CHECKED BY: RH      APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
*G. Sadat*

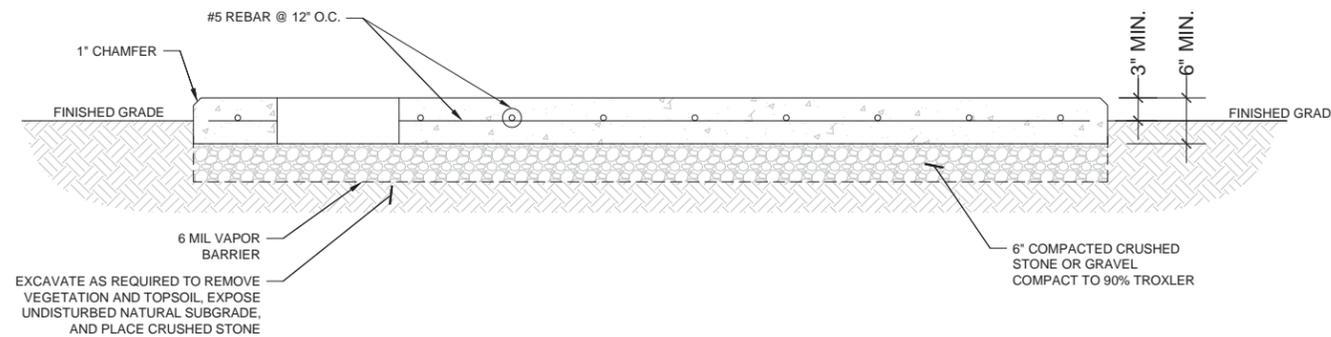
LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**SHELTER FOUNDATION  
PLAN AND DETAILS**

SHEET NUMBER:  
**S-1**



**1 GENERATOR FOUNDATION PLAN**  
SCALE: 1" = 1'-0" (1" = 2'-0" IF 11 X 17 SHEET SIZE)



**2 GENERATOR CONCRETE DETAIL (SECTION "A-A")**  
SCALE: 1" = 1'-0" (1" = 2'-0" IF 11 X 17 SHEET SIZE)

**CONCRETE PAD CONSTRUCTION NOTES**

1. ALL REBAR (HORIZONTAL & VERTICAL) SHALL BE SECURELY WIRE TIED TO PREVENT DISPLACEMENT DURING POURING OF CONCRETE.
2. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
3. REINFORCED CONCRETE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI STANDARDS 318.
4. MINIMUM CONCRETE COVER OVER REBAR IS 1 1/4".
5. REINFORCING MATERIAL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A615-85.

**CONCRETE PAD AND EMBEDMENT TOLERANCES**

1. EMBEDMENTS: PLUS OR MINUS 1/16".
2. CONCRETE DIMENSIONS: PLUS OR MINUS 1/4".
3. REINFORCING STEEL PLACEMENT: PLUS OR MINUS 1/4" INCLUDING CONCRETE COVER.

**NOTES**

1. FOUNDATION WAS DESIGNED BY ASSUMING ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSF. IF SHALLOW GROUNDWATER (≤3 FT.) WAS REPORTED, A FURTHER REVIEW OF THE DESIGN OR SPECIAL DESIGN MAY BE REQUIRED.
2. THE SOIL UNDERNEATH THE CONCRETE PAD MUST BE FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES, AND SHOULD BE COMPACTED AND LEVELED BEFORE PLACING THE FOUNDATION. PAD SHALL BE INSTALLED LEVEL TO WITHIN +/- 1/8".
3. CONCRETE SLUMPS: 1"-2".
4. CONCRETE VOLUME: 0.60 CUBIC YARDS.

**DESIGN**

1. MAXIMUM DESIGN BASIC WIND SPEED (3-SECOND GUST): 90 MPH FOR GENERATOR MODELS SD050.

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011- D.B.A.  
**CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC	CHECKED BY: PS
CHECKED BY: RH	APPROVED BY: GMS



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**GENERATOR  
FOUNDATION PLAN**

SHEET NUMBER:  
**S-2**

**SYMBOLS LEGEND:**

- UE-- UNDERGROUND ELECTRICAL CONDUIT
- UF-- UNDERGROUND FIBER OPTIC CONDUIT
- G-- UNDERGROUND GAS LINE
- OE OVERHEAD ELECTRIC LINE
- T-- UNDERGROUND TELECOMM. LINE
- W-- UNDERGROUND WATER LINE
- (M) METER BASE
- ⊠ FUSED DISCONNECT SWITCH
- ⊗ NEW UTILITY POLE
- ⊗ EXISTING UTILITY POLE

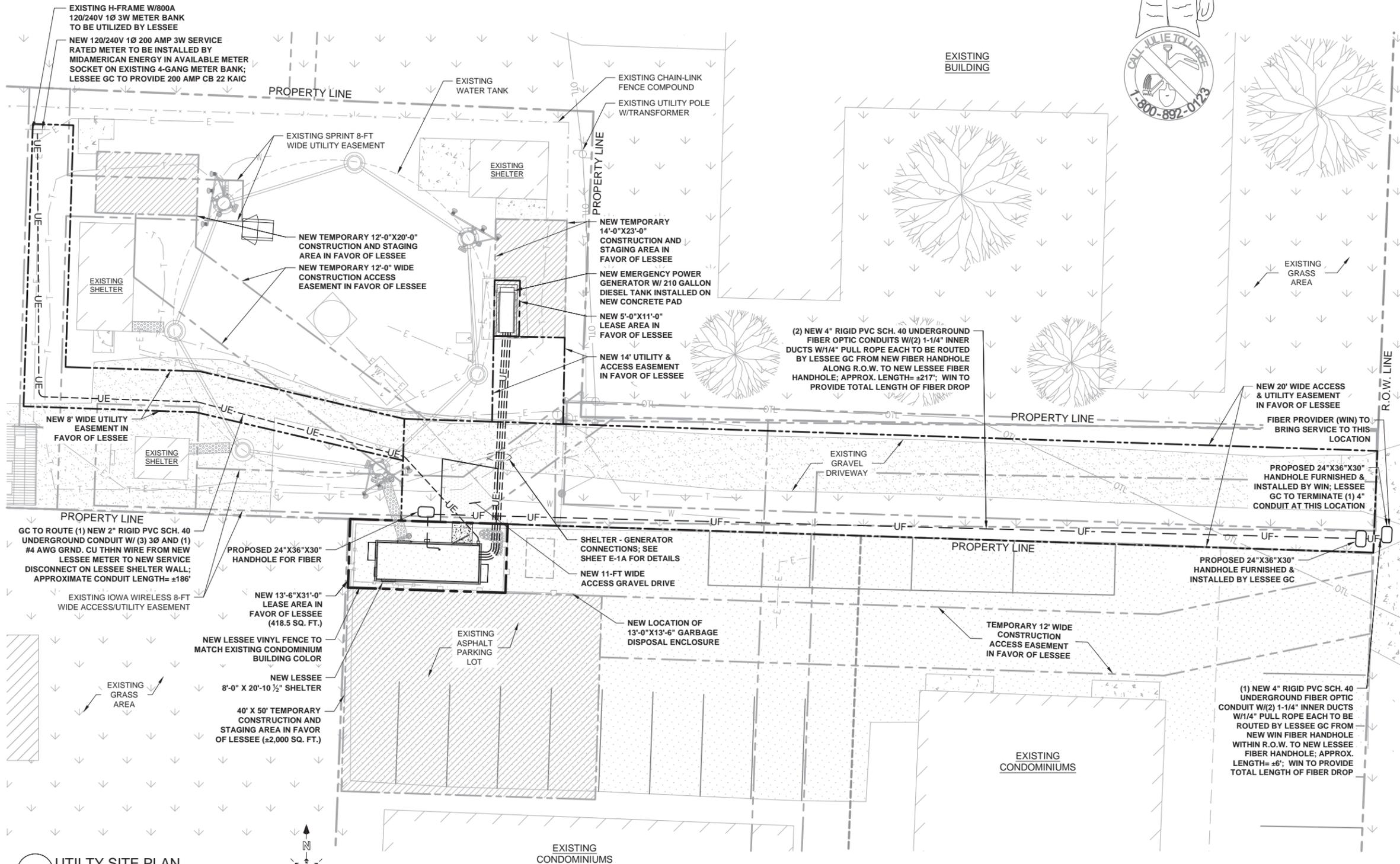
**NOTE:**

**ELECTRICAL CONTRACTOR TO PROTECT ALL UNDERGROUND UTILITIES DURING CONSTRUCTION**



**BIDDING & CONSTRUCTION NOTE:**

WIRE SIZES SHOWN ARE ESTIMATED MINIMUMS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL AND BUILDING CODES IN ADDITION TO NEC 2014 AND FOLLOW WHICHEVER IS MORE CONSERVATIVE. CONTRACTOR SHALL ESTIMATE PHASE CONDUCTOR SIZE & UTILIZE THE APPROPRIATE WIRE SIZE AND TYPE ASSUMING A 2% VOLTAGE DROP. CONTRACTOR TO CONFIRM WITH LOCAL ELECTRICAL INSPECTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION START.



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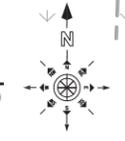


LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**UTILITY SITE PLAN**

SHEET NUMBER:  
**E-1**

**1** UTILITY SITE PLAN  
SCALE: 3/32"=1'-0" (3/32"=2'-0" IF 11X17 SHEET SIZE)



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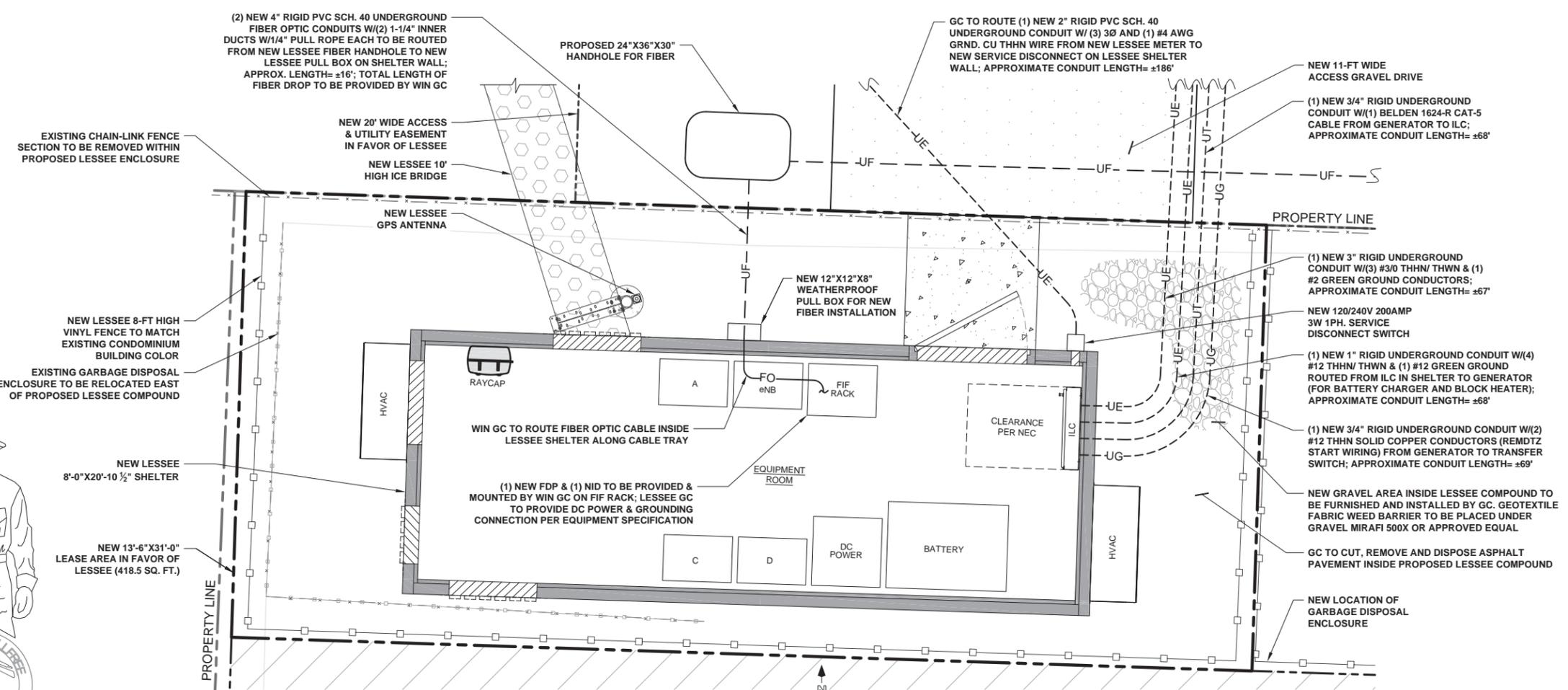
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LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**ENLARGED  
UTILITY PLAN**

SHEET NUMBER:  
**E-1A**



**1 ENLARGED UTILITY PLAN**  
SCALE: 1/2"=1'-0" (1/2"=2'-0" IF 11X17 SHEET SIZE)



### SYMBOLS LEGEND:

- UE-- UNDERGROUND ELECTRICAL CONDUIT
- UF-- UNDERGROUND FIBER OPTIC CONDUIT
- G-- UNDERGROUND GAS LINE
- OE OVERHEAD ELECTRIC LINE
- T-- UNDERGROUND TELECOMM. LINE
- W-- UNDERGROUND WATER LINE
- (M) METER BASE
- (/ ) FUSED DISCONNECT SWITCH
- (X) NEW UTILITY POLE
- (X) EXISTING UTILITY POLE

SERVICE CONDUIT LENGTH		
FIBER OPTIC NEW FIBER HANDHOLE ALONG R.O.W. TO NEW WIN HANDHOLE WITHIN R.O.W.	6' ±	NOTE: * THE CONDUIT LENGTH GIVEN IS BASED ON THE DRAWING +15% THE EXACT LENGTH TO BE VERIFIED IN FIELD. ELECTRICAL CONTRACTOR TO VERIFY LENGTHS AFTER COORDINATING W/ SERVICE UTILITY COMPANIES.
FIBER OPTIC NEW FIBER HANDHOLE ALONG R.O.W. TO NEW LESSEE FIBER HANDHOLE (NEAR SHELTER)	217' ±	
FIBER OPTIC NEW LESSEE FIBER HANDHOLE TO NEW PULL BOX ON SHELTER WALL	16' ±	
ELECTRIC NEW METER IN METER BANK TO NEW DISCONNECT SWITCH ON SHELTER WALL	186' ±	

PROVIDED LENGTHS ARE FOR A SINGLE RUN ONLY

**BIDDING & CONSTRUCTION NOTE:**

WIRE SIZES SHOWN ARE ESTIMATED MINIMUMS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL AND BUILDING CODES IN ADDITION TO NEC 2014 AND FOLLOW WHICHEVER IS MORE CONSERVATIVE. CONTRACTOR SHALL ESTIMATE PHASE CONDUCTOR SIZE & UTILIZE THE APPROPRIATE WIRE SIZE AND TYPE ASSUMING A 2% VOLTAGE DROP. CONTRACTOR TO CONFIRM WITH LOCAL ELECTRICAL INSPECTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION START.

### ABBREVIATIONS

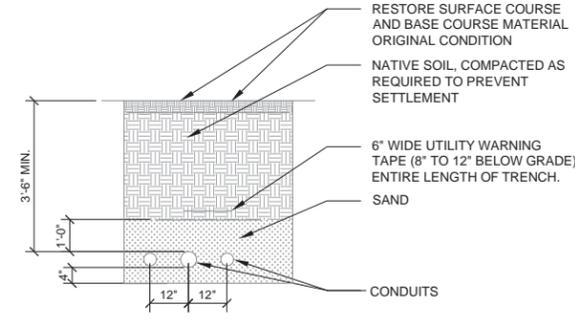
- AIC AMPS INTERRUPTING CAPACITY
- AWG AMERICAN WIRE GAUGE
- BCW BARE COPPER WIRE
- C CONDUIT
- CAB CABINET
- DISC DISCONNECT SWITCH
- DWG DRAWING
- ELEC ELECTRICAL
- EMT ELECTRICAL METALLIC TUBING
- GEN GENERATOR
- GND GROUND
- GPS GLOBAL POSITIONING SYSTEM
- O/H OVERHEAD
- PCS PERSONAL COMMUNICATION SYSTEM
- RGS RIGID GALVANIZED STEEL
- TYP TYPICAL
- UG UNDERGROUND GAS
- UW UNDERGROUND WATER
- SS STORM SEWER

### CODES AND STANDARDS

- NEC NATIONAL ELECTRICAL CODE
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- UL UNDERWRITERS LABORATORIES, INC.
- IBC INTERNATIONAL BUILDING CODE
- BOCA BUILDING OFFICIAL AND CODE ADMINISTRATORS
- IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
- ASTM AMERICAN SOCIETY FOR TESTING MATERIALS

### GENERAL ELECTRICAL NOTES

- 1.) NATIONAL ELECTRIC CODE, LATEST EDITION.
- 2.) ALL ELECTRICAL MATERIALS, EQUIPMENT AND INSTALLATION PROCEDURES TO CONFORM WITH LOCAL JURISDICTION REQUIREMENTS.
- 3.) ELECTRICAL CONTRACTOR SHALL PERFORM ALL VERIFICATION TESTS AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT & DISCREPANCIES.
- 4.) ELECTRICAL PLANS, DETAILS, AND DIAGRAMS ARE DIAGRAMMATIC ONLY. FIELD CONDITIONS DICTATE THE AMOUNT AND LOCATION OF EQUIPMENT.
- 5.) ALL MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NFPA, AND "UL" LISTED.
- 6.) THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY UBC, NEC, LESSEE, AND ALL APPLICABLE LOCAL CODES.
- 7.) ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE A MINIMUM INTERRUPTING RATING OF 20,000 AIC WHERE APPLICABLE.
- 8.) PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- 9.) PROVIDE LESSEE WITH ONE SET OF COMPLETE ELECTRICAL "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL ROUTINGS AND WIRING CONNECTIONS.
- 10.) LABEL ALL ELECTRICAL EQUIPMENT PER LESSEE SPECIFICATIONS.
- 11.) ALL SINGLE-PHASE SELF-CONTAINED METER CONNECTION DEVICES MUST INCLUDE HORN TYPE BY-PASS PROVISION SO THAT SERVICE WILL NOT BE INTERRUPTED WHEN A METER IS REMOVED FROM THE SOCKET.
- 12.) ALL ABOVE GROUND CONDUITS AND BUSHING SHALL BE RGS.



**2 UTILITY CONDUITS TRENCH DETAIL**  
SCALE: N.T.S.

**NOTES ON FIBER & POWER COORDINATION**

ROUTING SHOWN IS BASED ON ASSUMPTIONS MADE FROM VISUAL FIELD OBSERVATIONS OF EXISTING POLES & TRANSFORMERS. THESE PLANS MAY OR MAY NOT REFLECT AND/OR CONTAIN THE FINAL SCENARIO FOR POWER OR FIBER ROUTING. THE ELECTRICAL DESIGN SHOWN IS FOR PERMITTING PURPOSES ONLY AND IS NOT FOR CONSTRUCTION. ADDITIONAL TRANSFORMERS MAY BE REQUIRED. LONGER LEAD TIMES MAY BE POSSIBLE. CONCORDIA IS NOT RESPONSIBLE FOR CODE COMPLIANCE OR COMPLIANCE WITH POWER CODE. ELECTRICIAN IS REQUIRED TO CONFIRM COMPLIANCE OF SITE WITH LOCAL, COUNTY, STATE AND/OR NATIONAL ELECTRICAL CODES. THE MOST RESTRICTIVE OF SUCH CODES SHALL GOVERN AND BE APPLICABLE. THE DESIGN SHOWN ON THESE PLANS IS SUBJECT TO VERIFICATION AND APPROVAL BY VERIZON AND THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FINAL SCENARIO & CODE COMPLIANCE & IS RESPONSIBLE FOR COORDINATING WITH VERIZON'S POWER COORDINATOR. ELECTRICAL CONTRACTOR SHALL BID ON THESE PLANS USING THE WORST CASE SCENARIO.

# GTE WIRELESS MIDWEST, INC.

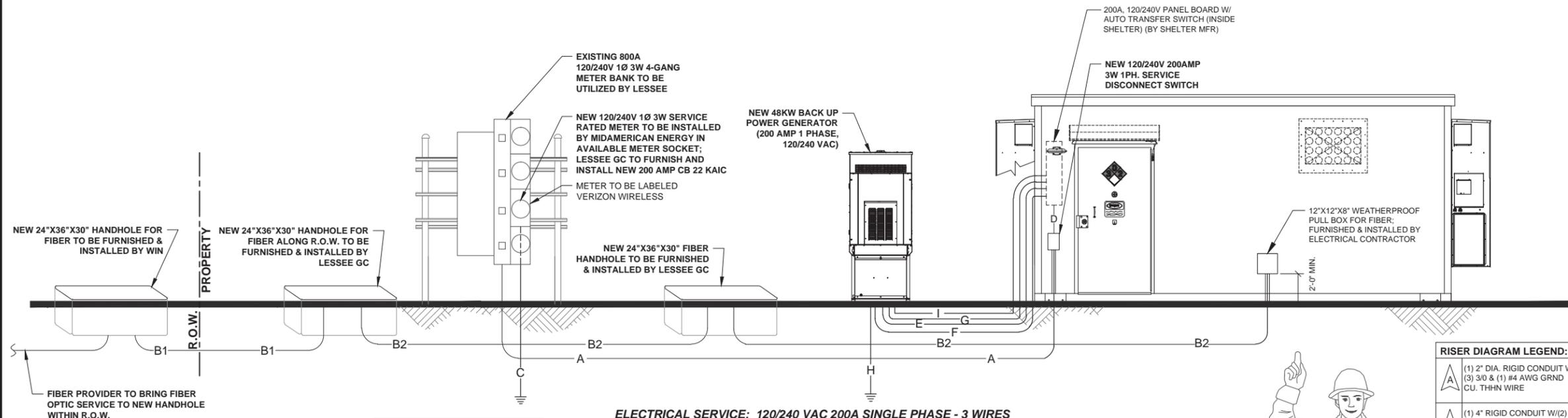
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CHECKED BY: RH APPROVED BY: GMS



## ELECTRICAL SERVICE: 120/240 VAC 200A SINGLE PHASE - 3 WIRES

### 1 ELECTRIC & FIBER SINGLE-LINE DIAGRAM

SCALE: N.T.S.

#### SERVICE EQUIPMENT NOTES:

- SERVICE EQUIPMENT SHALL HAVE A SHORT CIRCUIT TO WITHSTAND RATING THAT IS EQUAL TO OR EXCEEDS THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SUPPLY TERMINAL. THE INSTALLATION SHALL BE FREE FROM ANY SHORT CIRCUITS AND GROUNDS.
- ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO WITHSTAND 80 M.P.H. WIND SPEED, EXPOSURE C.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF ELECTRICAL WORK.

#### NOTE:

THIS IS AN ELECTRICAL DIAGRAM ONLY, ACTUAL LOCATIONS OF SERVICE POINTS, ARE SHOWN ON SURVEY SHEETS;  
ACTUAL LOCATIONS OF, PANEL BOARD, FIBER BOX & METER ARE SHOWN ON SHEET E-1A

#### CONDUCTOR NOTES:

- ALL CONDUCTORS SHALL BE COPPER
- ALL WIRING SHALL BE COPPER WITH THHN/THWN DUAL RATED 600 VOLTS INSULATION.
- CONDUCTORS SHALL BE 12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
- GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER UNLESS OTHERWISE NOTED.

#### CONDUIT NOTES:

- HWGC SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH EARTH, OR EXPOSED ABOVE GRADE.
- EMT SHALL BE USED ONLY FOR INTERIORS RUNS AND SHALL HAVE COMPRESSION TYPE FITTINGS.
- SEAL TIGHT, FLEXIBLE CONDUIT MAY BE USED WHERE CODE PERMITS. ALL CONDUIT SHALL HAVE FULL SIZE EQUIPMENT GROUND WIRE.
- PVC SHALL BE SCH 40
- SERVICE CONDUITS SHALL HAVE NO MORE THAN (3) -90° BENDS IN ANY SINGLE RUN. THE ELECTRICAL CONTRACTOR SHALL PROVIDE PULL BOXES AS NEEDED WHERE CONDUIT REQUIREMENTS EXCEED THESE CONDITIONS.
- SERVICE CONDUIT SHALL BE AT A MINIMUM DEPTH OF 42".
- ALL COAX, POWER AND TELEPHONE SYSTEM CONDUIT SHALL HAVE A MINIMUM 36" RADIUS SWEEPS TO EQUIPMENT, PULL BOXES, MONOPOLE, ETC., UNLESS OTHERWISE NOTED, OR AS REQUIRED BY UTILITY COMPANIES.

#### CONDUIT MATERIAL SCHEDULE:

- UNLESS NOTED OTHERWISE, ALL CONDUIT RUNS SHALL CONFORM TO THE FOLLOWING:
- ALL ABOVE GRADE, EXTERIOR CONDUITS SHALL BE RGS.
  - ALL BELOW GRADE HORIZONTAL CONDUITS SHALL BE PVC
  - ALL BELOW GRADE 3" Ø & 45° BENDS SHALL BE STEEL W/THREADED CONNECTIONS.
  - ALL BELOW GRADE TO ABOVE GRADE RISERS SHALL BE STEEL W/THREADED CONNECTIONS.
  - SEAL TIGHT FLEXIBLE CONDUIT MAY BE USED WHERE CODE PERMITS.

#### ATTENTION ELECTRICAL CONTRACTOR:

- ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO VERIFY LOCAL UTILITY REQUIREMENTS FOR DEPTH, TYPE, SIZE & SEPARATION OF CONDUIT PRIOR TO INSTALLATION. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES
- ELECTRICAL CONTRACTOR TO CALL UTILITY LOCATE HOTLINE 48 HRS. PRIOR TO EXCAVATING FOR UNDERGROUND UTILITY LOCATIONS. SURROUNDING EXCAVATED AREA MUST BE PRIVATELY LOCATED FOR NONPUBLIC UTILITIES.
- ALL ABOVE GRADE OR WEATHER EXPOSED CONDUITS SHALL BE OF RIGID GALVANIZED CONDUIT!
- ANY CONDUITS LOCATED UNDER NEW OR EXISTING TRAFFIC AREAS SHALL BE MINIMUM SCH.80 CONDUIT.

#### NOTES ON FIBER & POWER COORDINATION

ROUTING SHOWN IS BASED ON ASSUMPTIONS MADE FROM VISUAL FIELD OBSERVATIONS OF EXISTING POLES & TRANSFORMERS. THESE PLANS MAY OR MAY NOT REFLECT AND/OR CONTAIN THE FINAL SCENARIO FOR POWER OR FIBER ROUTING. THE ELECTRICAL DESIGN SHOWN IS FOR PERMITTING PURPOSES ONLY AND IS NOT FOR CONSTRUCTION. ADDITIONAL TRANSFORMERS MAY BE REQUIRED. LONGER LEAD TIMES MAY BE POSSIBLE. CONCORDIA IS NOT RESPONSIBLE FOR CODE COMPLIANCE OR COMPLIANCE WITH POWER CODE. ELECTRICIAN IS REQUIRED TO CONFIRM COMPLIANCE OF SITE WITH LOCAL, COUNTY, STATE AND/OR NATIONAL ELECTRICAL CODES. THE MOST RESTRICTIVE OF SUCH CODES SHALL GOVERN AND BE APPLICABLE. THE DESIGN SHOWN ON THESE PLANS IS SUBJECT TO VERIFICATION AND APPROVAL BY VERIZON WIRELESS AND THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FINAL SCENARIO & CODE COMPLIANCE & IS RESPONSIBLE FOR COORDINATING WITH VERIZON WIRELESS'S POWER COORDINATOR. ELECTRICAL CONTRACTOR SHALL BID ON THESE PLANS USING THE WORST CASE SCENARIO.

#### NOTES:

- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROPERTY OWNER & NECESSARY UTILITY COMPANIES FOR THE LOCATION OF ALL EXISTING BELOW GRADE UTILITIES PRIOR TO BEGINNING CONSTRUCTION SHALL BE RESPONSIBLE FOR ANY DAMAGE COSTS ASSOCIATED WITH EXISTING BELOW GRADE UTILITIES.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY EXCESS FACILITY CHARGES ASSOCIATED W/ PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY
- ELECTRICAL CONTRACTOR TO VERIFY LOCAL UTILITY REQUIREMENTS FOR DEPTH, SIZE & SEPARATION OF CONDUIT PRIOR TO INSTALLATION. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES
- ELECTRICAL CONTRACTOR TO CALL J.U.L.I.E. (800) 892-0123 48 HRS. PRIOR TO EXCAVATING FOR UNDERGROUND UTILITY LOCATIONS. SURROUNDING EXCAVATED AREA MUST BE PRIVATELY LOCATED FOR NONPUBLIC UTILITIES.

#### NOTES:

- ALL CONDUITS & CONDUCTORS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
- SEE SINGLE-LINE DIAGRAM FOR UTILITY CONDUITS & CONDUCTOR SIZES.
- ALL UTILITY LOCATIONS AND CONNECTIONS TO BE VERIFIED WITH LESSEE REPRESENTATIVE.

#### UTILITY COORDINATION NOTES:

- PROVIDE POWER AND TELEPHONE TO SERVICE POINTS PER UTILITY COMPANY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY SERVICE PLANNERS AND OBTAIN ALL SERVICE REQUIREMENTS AND INCLUDE COSTS FOR SUCH IN HIS BID.
- PROVIDE DAILY UPDATES TO PM UNTIL FINAL ELECTRICAL SERVICE IS EFFECTED.



#### RISER DIAGRAM LEGEND:

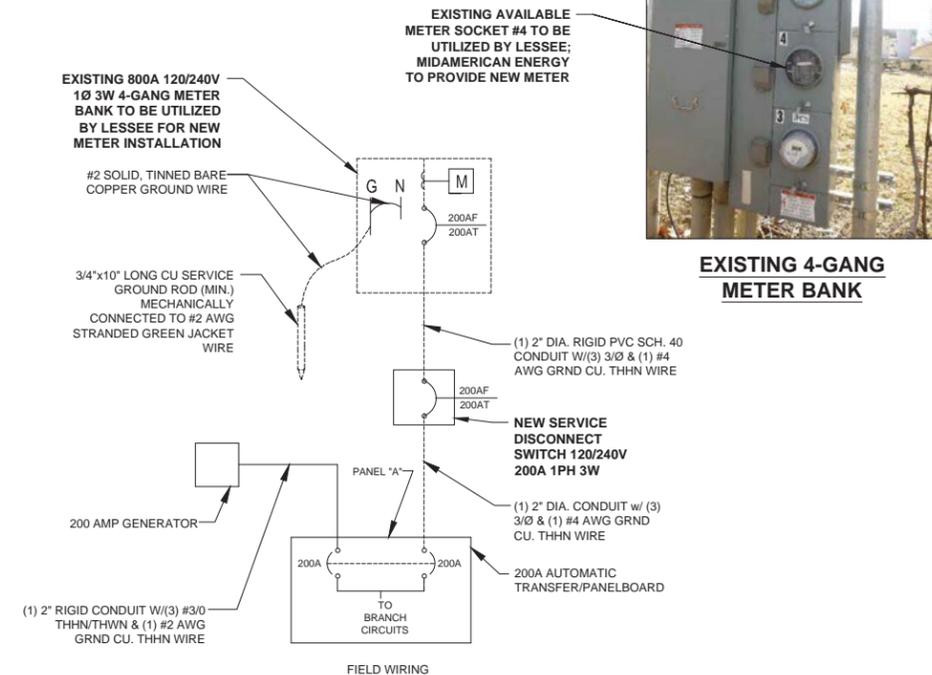
- A (1) 2" DIA. RIGID CONDUIT W/ (3) 3/Ø & (1) #4 AWG GRND CU. THHN WIRE
- B1 (1) 4" RIGID CONDUIT W/(2) 1-1/4" INNER DUCTS W/ 1/4" THICK PULL ROPE EACH; FIBER OPTIC CABLE TO BE PROVIDED BY FIBER PROVIDER
- B2 (2) 4" RIGID CONDUITS W/(2) 1-1/4" INNER DUCTS W/ 1/4" THICK PULL ROPE EACH; FIBER OPTIC CABLE TO BE PROVIDED BY FIBER PROVIDER
- C (1) 1/2" CONDUIT W/ #6 AWG SERVICE GROUND; GROUND ROD TO BE PLACED 50" BELOW GRADE
- D (1) 2" DIA. RIGID CONDUIT W/ (3) 3/Ø & (1) #4 AWG GRND CU. THHN WIRE
- E (1) 3/4" DIA. RIGID CONDUIT W/(2) BELDEN 1624-R CAT-5 CABLE FROM GENERATOR TO TRANSFER SWITCH
- F (1) 1" DIA. RIGID CONDUIT W/(4) #12 THHN/ THWN & (1) #12 GREEN GROUND FROM PANELBOARD IN SHELTER TO GENERATOR (FOR BATTERY CHARGER AND BLOCK HEATER)
- G (1) 3" RIGID CONDUIT W/(3) #3/Ø THHN/ THWN & (1) #2 GREEN GROUND CONDUCTORS
- H (1) 1/2" CONDUIT W/ #2 AWG SERVICE GROUND; GROUND ROD TO BE PLACED 50" BELOW GRADE
- I (1) 3/4" DIA. RIGID CONDUIT W/(2) #12 THHN SOLID COPPER CONDUCTORS (REMDTZ START WIRING) FROM GENERATOR TO TRANSFER SWITCH

#### MATERIALS NOTES:

- A ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & VERIFYING THE TYPE OF ELECTRICAL SERVICE AS WELL AS THE ACTUAL CONDUIT DISTANCE TO SERVICE POINT -- ELECTRICAL CONTRACTOR TO NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY -- OTHERWISE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING PHASE CONDUCTORS FROM THE SERVICE POINT TO LOAD CENTER IN ORDER TO COMPLY WITH THE LOCAL BUILDING/ELECTRICAL CODE AS WELL AS THE NEC AND UTILITY COMPANY REQUIREMENTS
- B ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING & VERIFYING SERVICE CONNECTION POINT AND FIBER DEMARC INSTALLATION
- C ELECTRICAL CONTRACTOR TO FURNISH & INSTALL NEW SERVICE GROUND @ METER LOCATION IN COMPLIANCE WITH LOCAL ELECTRICAL, NEC & ELECTRICAL UTILITY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL AT A MINIMUM INSTALL #6 AWG GROUND WIRE CONNECTED TO A NEW 5/8" COPPER CLAD GROUND ROD
- D ROUTE RIGID SCH. 40 CONDUIT FROM THE PANEL BOARD TO THE DISCONNECT

### 2 ELECTRICAL SCHEMATIC

SCALE: N.T.S.



LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**UTILITY DETAILS**

SHEET NUMBER:  
**E-2**

LOAD				LOAD PER PHASE (VA)		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA)		LOAD				
DESCRIPTION	QTY.	UNIT V.A.	PHASE		PHASE															UNIT V.A.	QTY.	DESCRIPTION				
			A	B	A																		B			
B1 1	RECTIFIER #1	1	1400	1400	BLK	X				10	(10)	30	60	(10)	6		X	BLK	3408		3408	1	HVAC #1	2		
	3		1400		1400	RED													RED		3408	3408	1	4		
B1 5	RECTIFIER #2	1	1400	1400	BLK	X				10	(10)	30	60	(10)	6		X	BLK	3408		3408	1	HVAC #2	6		
	7		1400		1400	RED													RED		3408	3408	1	8		
B2 9	RECTIFIER #3	1	1400	1400	BLK	X				10	(10)	30							BLK	--	--	--		SPACE	10	
	11		1400		1400	RED													RED	--	--	--		12		
B2 13	RECTIFIER #4	1	1400	1400	BLK	X				10	(10)	30							BLK	--	--	--		SPACE	14	
	15		1400		1400	RED													RED	--	--	--		16		
B3 17	RECTIFIER #5	1	1400	1400	BLK	X				10	(10)	30	20	12	12			X	BLK	495		32/15	5/1	INTERIOR LIGHTS	18	
	19		1400		1400	RED							20	12	12			X	RED		27	27	1	EXTERIOR LIGHTS	20	
B3 21	RECTIFIER #6	1	1400	1400	BLK	X				10	(10)	30							BLK	--	--	--		SPACE	22	
	23		1400		1400	RED													RED	--	--	--		SPACE	24	
25	SPACE	-	--	--	BLK								20	12	12			X	BLK	900		180	5	RECEPTACLES	26	
	27		--	--	RED														RED	--	--	--		SPACE	28	
29	SPACE	-	--	--	BLK								20	12	12			X	BLK	60		60	1	EXHAUST FAN	30	
	31		--	--	RED								20	(12)	12			X	RED		180	180	2	EXTERIOR GFCI RECEPTACLE	32	
33	SPACE	-	--	--	BLK														BLK	--	--	--		SPACE	34	
	35		--	--	RED														RED	--	--	--		SPACE	36	
37	SPACE	-	--	--	BLK														BLK	--	--	--		SPACE	38	
	39		--	--	RED														RED	--	--	--		SPACE	40	
41	SPACE	-	--	--	BLK														BLK	--	--	--		SPACE	42	
		SUBTOTAL CONTINUOUS		8,400	8,400															1,135	387	SUBTOTAL CONTINUOUS		TOTAL KVA CONTINUOUS x 1.25	22.90	
		SUBTOTAL NON-CONTINUOUS		-	-															6,816	6,816	SUBTOTAL NON-CONTINUOUS		TOTAL KVA NON-CONTINUOUS	13.63	
		SUBTOTAL SUB-PANEL		-	-															-	-	SUBTOTAL SUB-PANEL		TOTAL KVA SUB-PANEL	-	
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 4)																								TOTAL KVA		36.53
MAIN LUGS: N/A		MAIN BREAKER: 200 AMP		MAIN BREAKER A.I.C RATING: 22,000 A.I.C				BRANCH BREAKER A.I.C RATING: 10,000 A.I.C				BRANCH BREAKER TYPE: SQUARE D - BOLT ON				TOTAL AMPS		151.21								
VOLTAGE: 120/240		CYCLE: 60		PHASE: 1		WIRES: 3		MAIN COPPER BUS: 200 AMPS				NEUTRAL: 200 AMPS														

SEE NOTE 7

**NOTES:**

- ALL WIRE TO BE #12 THHN/THWN UNLESS NOTED OTHERWISE.  
COLOR CODE:  
• AØ = BLACK  
• BØ = RED  
• NEUTRAL = WHITE  
• GROUND = GREEN
- ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
- LABEL SERVICE DISCONNECT WITH A RED TAG.
- SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
- ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
- NOT USED.
- PULL RECTIFIERS TO THE END OF FLEXIBLE NONMETALLIC CONDUIT PLUS 10'-0"; COIL AND TAG.
- SEE ELECTRICAL SCHEMATIC #2 SHEET FOR MORE DETAILS.
- EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED @ A MINI. OF 75° C.

**KEY:**

- (PC) = PHOTOCELL
- (M) = MOTION DETECTOR
- = CONDUIT GROUND
- # = NON-DEDICATED GROUND
- (#) = DEDICATED GROUND
- <#> = ISOLATED GROUND

1 **ELECTRICAL SCHEMATIC**  
SCALE: N.T.S.

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MAIN: (847) 981-0801

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CHECKED BY: RH      APPROVED BY: GMS

**FIBREBOND**  
1300 DAVENPORT DRIVE  
MINDEN, LA. 71055  
ph. (800) 824-2614  
www.fibrebond.com

LOCATION # 288443  
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3000 24TH ST.  
ROCK ISLAND, IL 61201

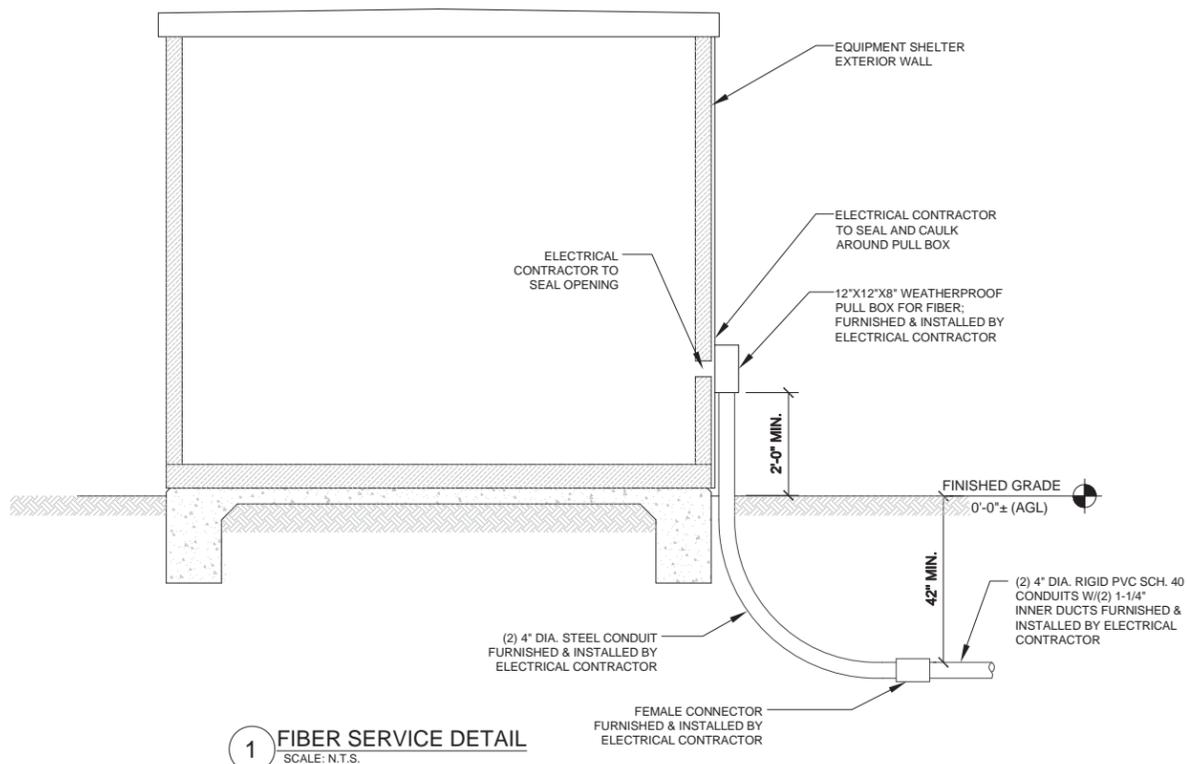
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**ELECTRICAL  
SCHEMATIC**

SHEET NUMBER:  
**E-3**

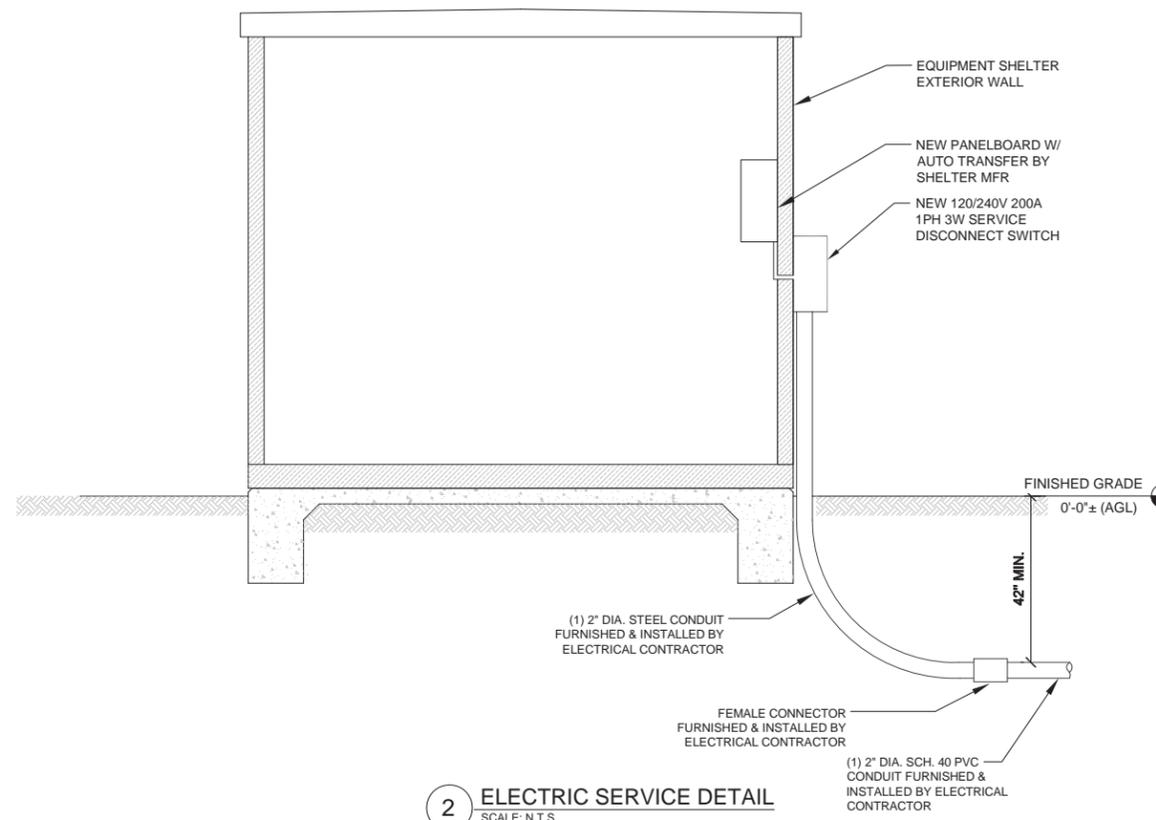
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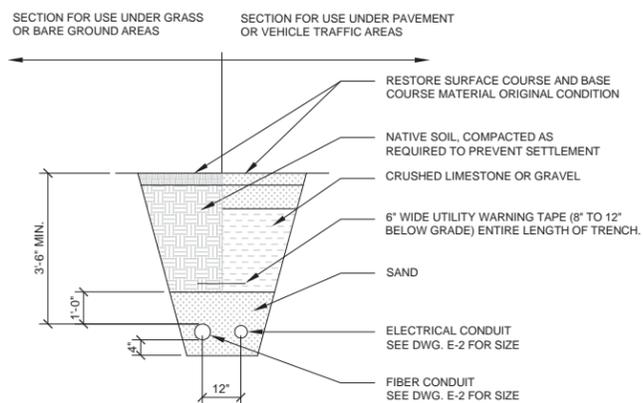
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CHECKED BY: RH	APPROVED BY: GMS



**1 FIBER SERVICE DETAIL**  
SCALE: N.T.S.



**2 ELECTRIC SERVICE DETAIL**  
SCALE: N.T.S.



**3 JOINT UTILITY TRENCH DETAIL**  
SCALE: N.T.S.



**NOTES:**  
1.) ELECTRICAL CONTRACTOR TO VERIFY LOCAL UTILITY REQUIREMENTS FOR DEPTH, SIZE & SEPARATION OF CONDUITS PRIOR TO INSTALLATION. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.  
2.) ELECTRICAL CONTRACTOR TO CALL UTILITY LOCATES 48 HRS PRIOR TO EXCAVATING FOR UNDERGROUND UTILITY LOCATIONS. LOCATION SURROUNDING EXCAVATED AREA MUST BE PRIVATELY LOCATED FOR NON-PUBLIC UTILITIES.  
3.) ALL ABOVE GRADE CONDUIT SHALL BE RIGID STEEL CONSULT WITH LOCAL ELECTRICAL CODE.



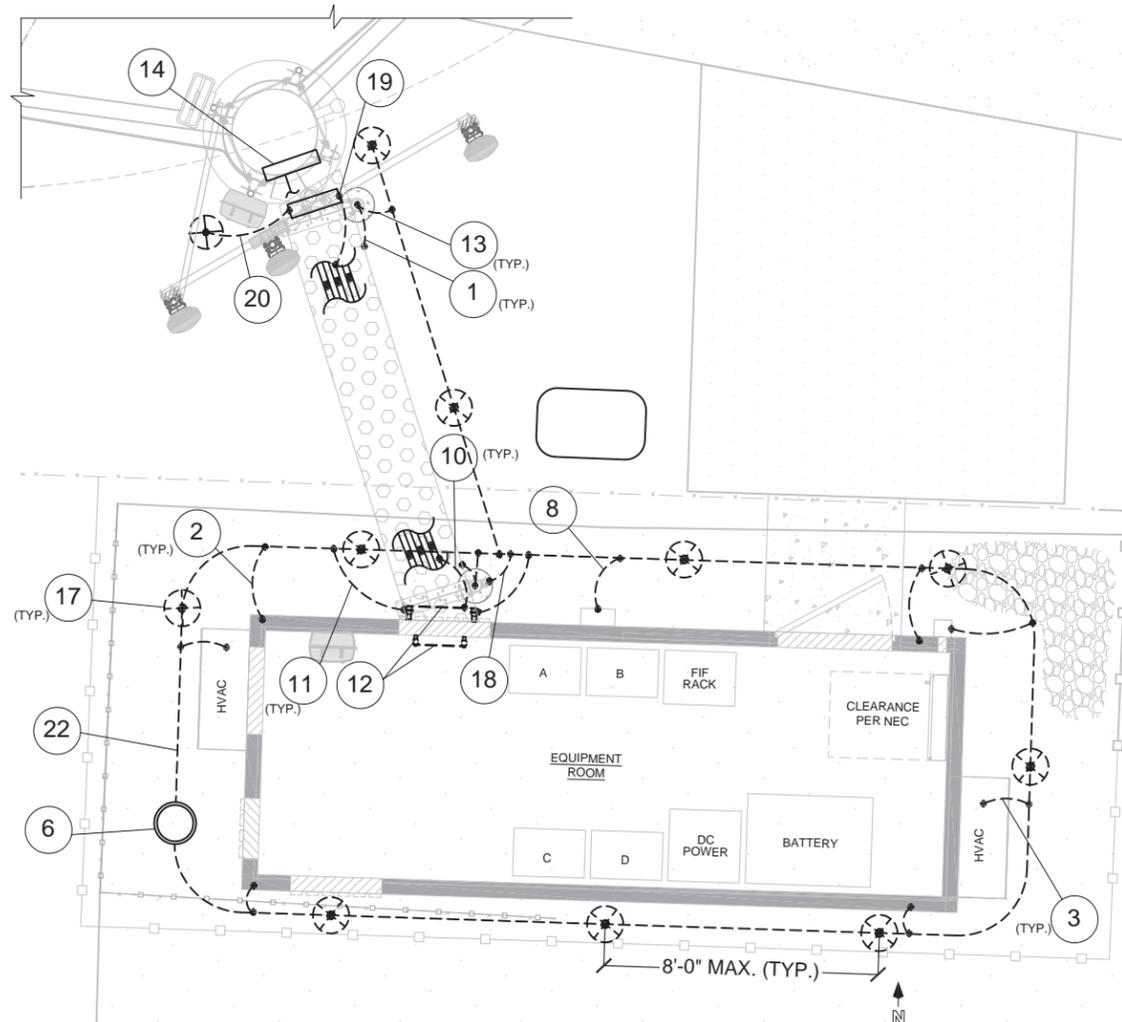
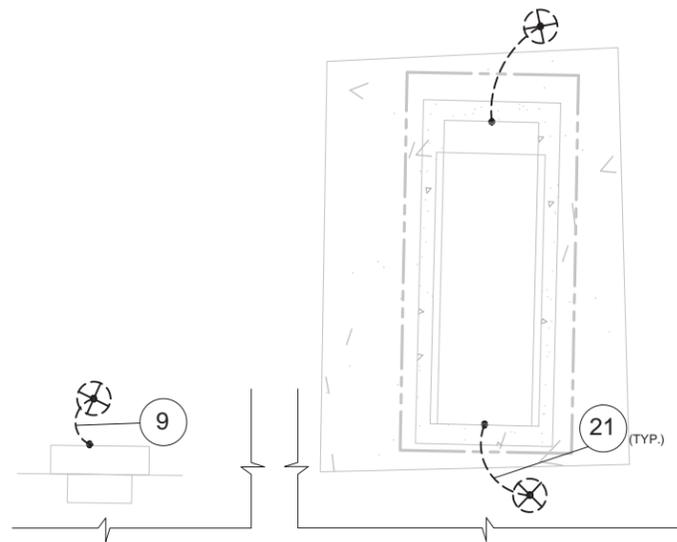
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TRINITY ROCK ISLAND  
3000 24TH ST.  
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SHEET TITLE:  
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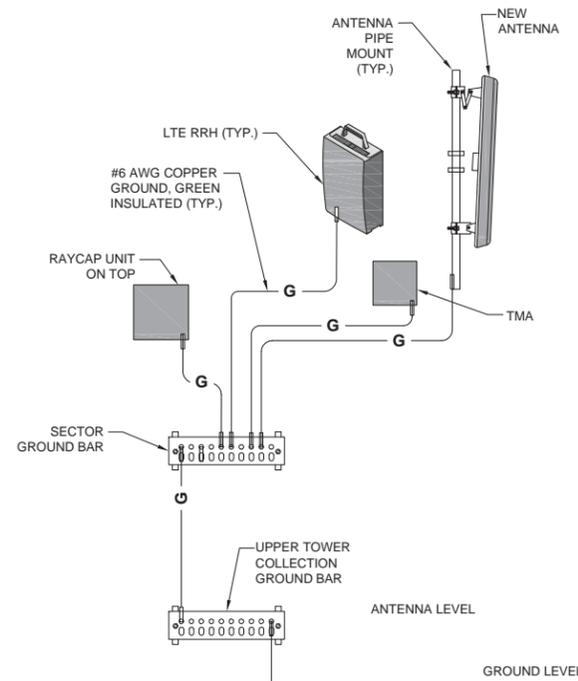
SHEET NUMBER:  
**E-4**

**KEY NOTES:**

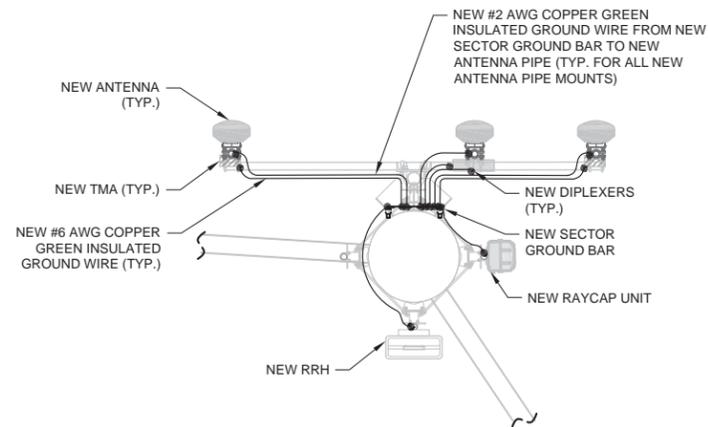
- ① #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM ICE BRIDGE TO ICE BRIDGE POST.
- ② #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM EQUIPMENT ENCLOSURE TO GROUND RING ( 4 REQUIRED)
- ③ GROUND EQUIPMENT ENCLOSURE HVAC WITH MECHANICAL CLAMP
- ④ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM FENCE POST TO GROUND RING
- ⑤ #2 SOLID, TINNED COPPER GROUND WIRE FROM PIPE CLAMP GROUND TO NEW GROUND RING
- ⑥ GROUND SYSTEM TEST WELL
- ⑦ MAINTAIN 2'-0" DISTANCE OFF OF STRUCTURES
- ⑧ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW GROUND RING TO FIBER ENTRANCE
- ⑨ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM GROUND ROD TO METER SOCKET.
- ⑩ GROUND COAXIAL ANTENNA CABLES TO GROUND BAR BY ANTENNA CONTRACTOR TERMINATE CABLES 1'-0" FROM ENCLOSURE.
- ⑪ EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO EXTERIOR HALO GROUND RING (EXOTHERMIC CONNECTION TYPE TA) BY ANTENNA CONTRACTOR. FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- ⑫ 4"x20"x1/4" TNND INSULATED COPPER GROUND BAR, NON-ISOLATED, WITH 10.0' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VV) ATTACHED TO EQUIPMENT SHELTER
- ⑬ #2 SOLID, TINNED BARE COPPER GROUND WIRE, BOND ICE BRIDGE POST W/ VS TYPE CADWELD. (1 PER POST REQUIRED)
- ⑭ 4"x20"x1/4" TNND INSULATED COPPER GROUND BAR, NON-ISOLATED WITH 10.0' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS. TYP. OF 2 - AT ANTENNA LEVEL & TOWER BASE (HARGER GBIT 14420VV)
- ⑮ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM LOWER TOWER GROUND BAR TO EXISTING TOWER GROUND RING ( 2 REQUIRED).
- ⑯ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM TOWER BASE TO NEW GROUND RING ( 2 REQUIRED).
- ⑰ 5/8" Ø X 10'-0" COPPER CLAD GROUND ROD
- ⑱ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM NEW GPS ANTENNA PIPE TO GROUND RING
- ⑲ 4"x20"x1/4" TNND INSULATED COPPER GROUND BAR, NON-ISOLATED, WITH 10.0' LONG #2 AWG TNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VV) ATTACHED TO WATER TANK SHELL
- ⑳ EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO TOP OF GROUND ROD
- ㉑ #2 SOLID, TINNED BARE COPPER GROUND WIRE FROM ISOLATED GROUND ROD TO GENERATOR
- ㉒ GROUND RING #2 SOLID, TINNED BARE COPPER WIRE. CONSTRUCT RING FROM ONE CONTINUOUS PIECE



**1 ENLARGED SITE GROUNDING PLAN**  
SCALE: 3/8"=1'-0" (3/8"=2'-0"IF 11X17 SHEET SIZE)



**2 GROUNDING DETAIL DIAGRAM**  
SCALE: NTS



**3 SECTOR GROUNDING PLAN**  
SCALE: N.T.S.

**GROUNDING NOTES:**

GROUND RODS WILL BE 3/4" X 10 FOOT COPPER CLAD NOT LESS THAN 10 FOOT OR MORE THAN 15 FOOT APART. ALL CONNECTIONS TO THE GROUND RING, AND PERIPHERAL EQUIPMENT WILL BE MADE VIA CADWELD PROCESS UNLESS OTHERWISE SPECIFIED. ALL WIRING USED IN THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE SPECIFIED.

NOTE: CONTRACTOR SHALL REVIEW SOIL RESISTIVITY REPORT FOR SPECIFIC GROUNDING SYSTEM RECOMMENDATIONS (i.e. XIT GROUND REQUIREMENTS).

1. COPPER CLAD GROUND ROD AS SPECIFIED ABOVE.
2. FENCE GROUNDING AT ALL CORNER POSTS (CADWELD CONNECTION FROM GROUND RING TO FENCE POST AT CORNERS (CONNECTION TO BE NO MORE THAN 12 INCHES ABOVE GROUND BUT MUST BE VISIBLE).
3. ATACH TO EXISTING GROUND RING IN FOUR DIFFERENT PLACES SEPARATE EACH CONNECTION BY 3'
4. CONNECTIONS FOR POWER CABINET AND BTS - PROVIDE 1 LEAD FOR EACH CABINET (NOT LESS THAN 4 FEET AND NOT MORE THAN 5 FEET LONG TO BE COILED UNDER PLATFORM - FOR USE AND FUTURE USE).
5. SPARE LEADS TO GROUND RING FOR FUTURE CABINETS. NOT LESS THAN 4 FEET AND NOT MORE THAN 5 FEET LONG - COILED NEATLY NEAR FUTURE BTS POSITION
6. #2 AWG INSULATED STRANDED GROUND WIRE FROM MONOPOLE BOTTOM GROUND BAR TO DESIGNATED SECTOR GROUND BAR AT
7. FOR WOOD FENCE APLICATIONS NO GATE OR CORNER POST GROUNDS ARE REQUIRED

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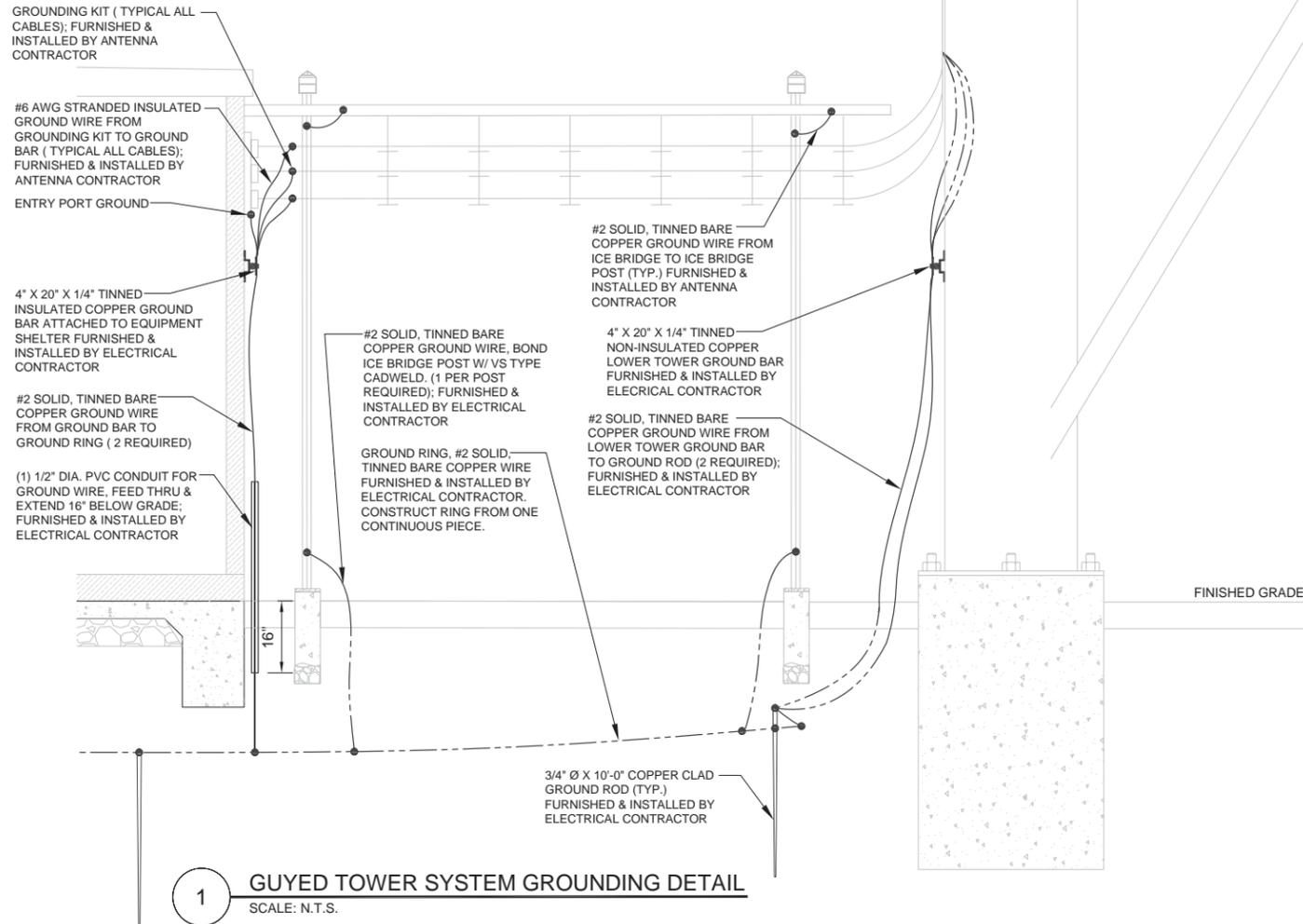
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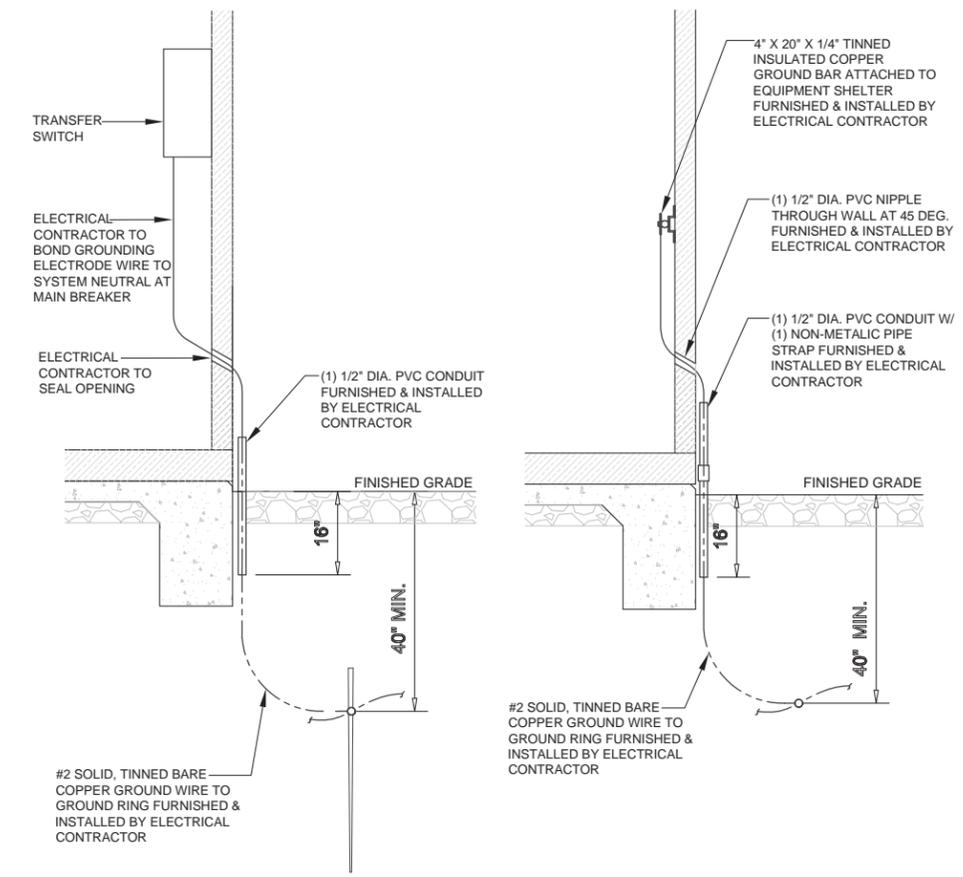
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TRINITY ROCK ISLAND  
3000 24TH ST.  
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SHEET TITLE:  
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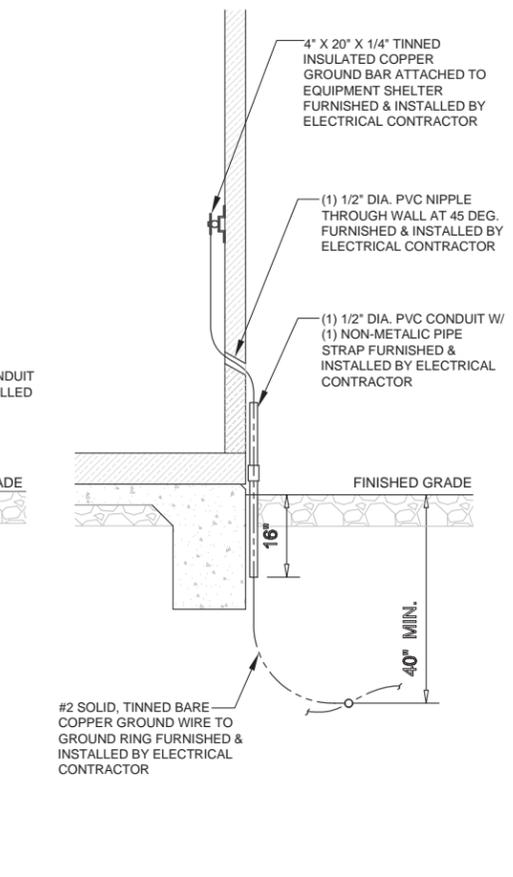
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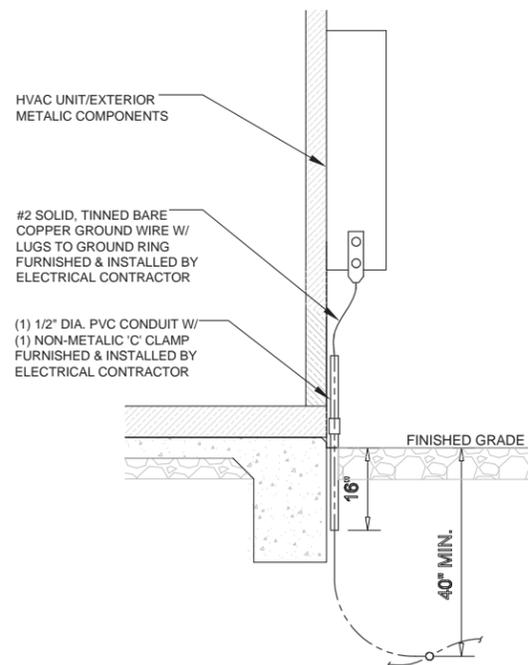
1 GUYED TOWER SYSTEM GROUNDING DETAIL  
SCALE: N.T.S.



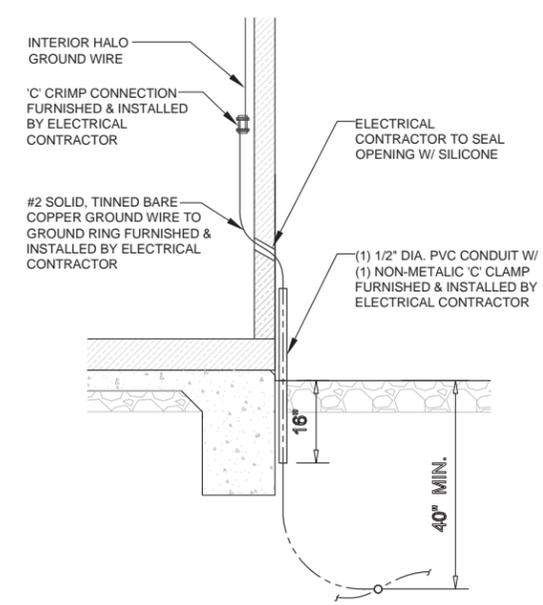
2 METER BASE GROUNDING DETAIL  
SCALE: N.T.S.



3 TELCO SERVICE GROUNDING DETAIL  
SCALE: N.T.S.



4 HVAC GROUNDING DETAIL  
SCALE: N.T.S.



5 SHELTER GROUNDING DETAIL  
SCALE: N.T.S.

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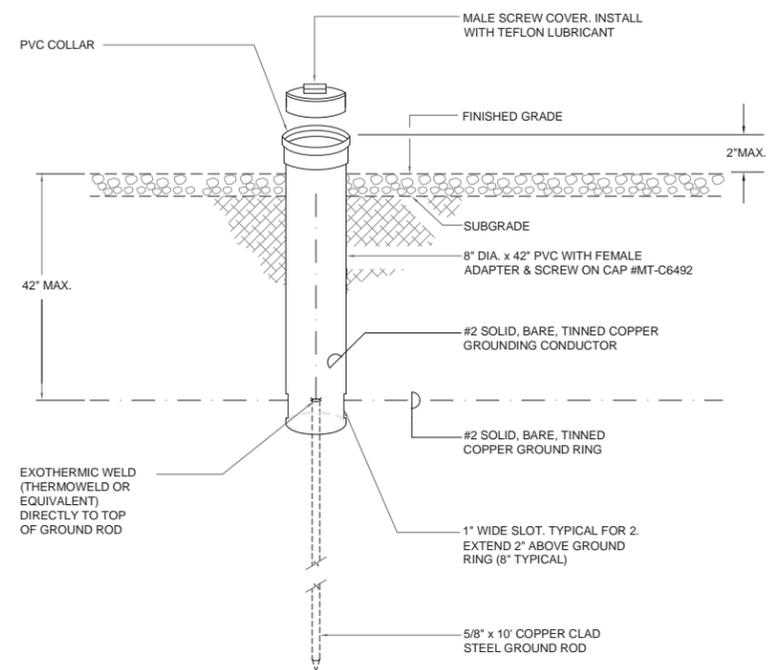
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CHECKED BY: RH      APPROVED BY: GMS

**GHAZWAN M. SADAT**  
062-061844  
LICENSED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS  
*G. Sadat*

LOCATION # 288443  
TRINITY ROCK ISLAND  
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ROCK ISLAND, IL 61201

SHEET TITLE:  
**GROUNDING DETAILS**

SHEET NUMBER:  
**G-2**



1 TEST WELL DETAIL  
SCALE: NTS

CADWELD CONNECTIONS OR APPROVED EQUAL		BURNDY CONNECTIONS OR APPROVED EQUAL	
<p>PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT</p>	<p>HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS</p>	<p>"C" CONNECTOR HYPRESS TYPE YGHC</p>	
<p>THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT</p>	<p>VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS</p>	<p>BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2</p>	
<p>HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES</p>	<p>VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS</p>	<p>COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2</p>	

2 CADWELD DETAILS  
SCALE: NTS

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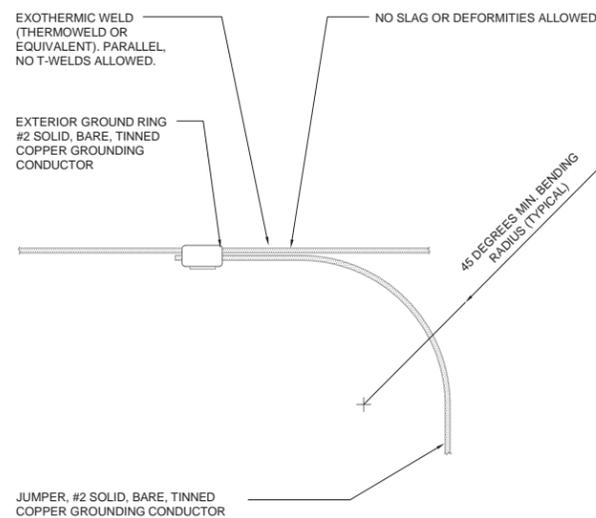
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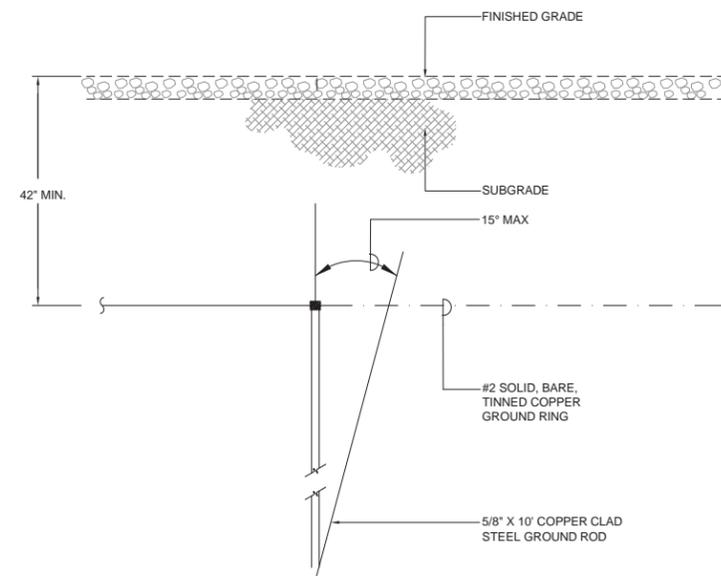
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SHEET TITLE:  
**GROUNDING DETAILS**

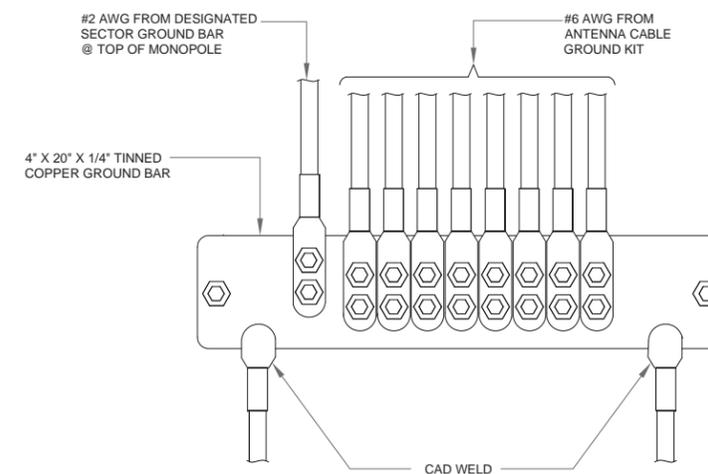
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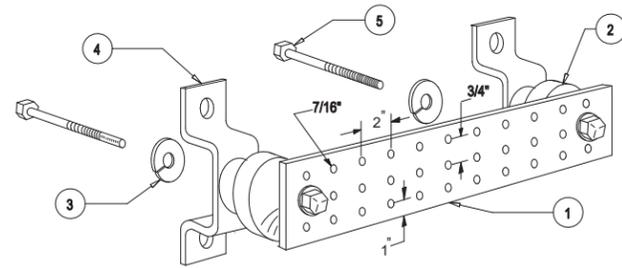
3 TIE CONNECTION  
SCALE: NTS



4 GROUND ROD DETAIL  
SCALE: NTS



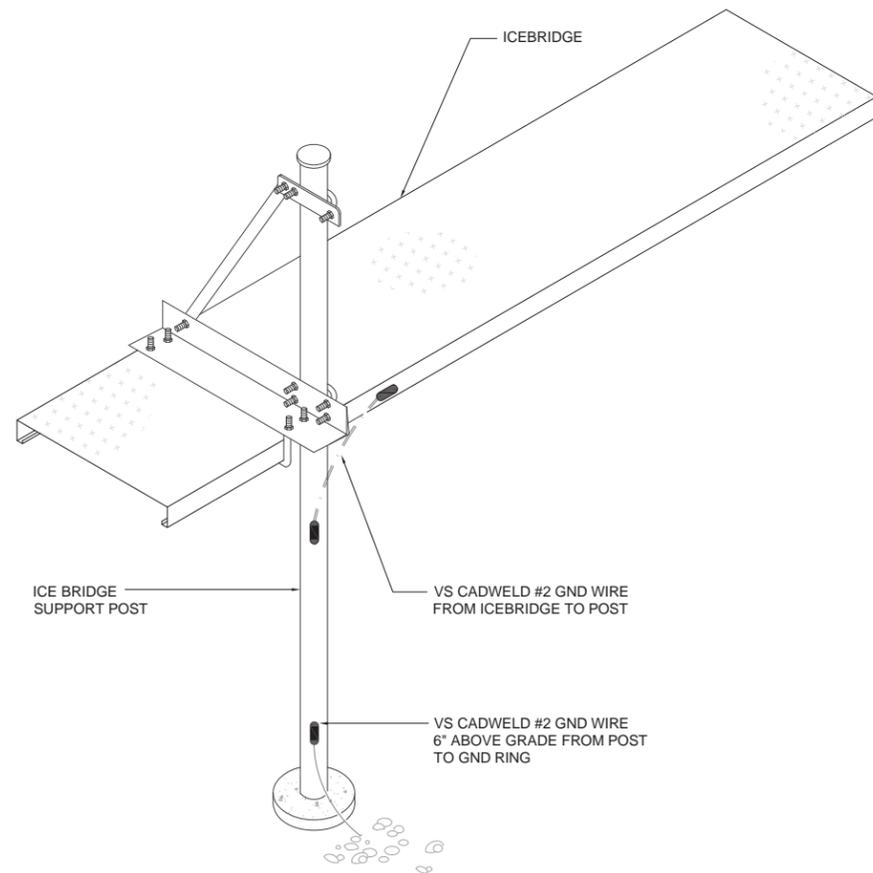
5 GROUND BAR DETAIL  
SCALE: NTS



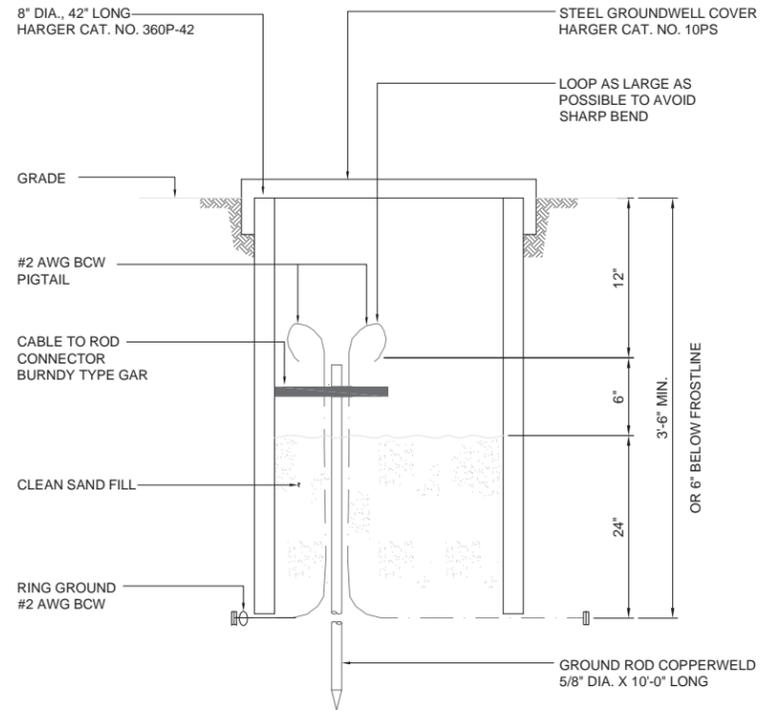
**LEGEND**

- 1- GROUND BAR, 4"X 20"X1/4", CONFIRM w/VERIZON WIRELESS PROJECT MANAGER THE APPROVED BUSS MFR. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- 2- INSULATORS, CONFIRM THE APPROVED BUSS MFR. w/VERIZON WIRELESS
- 3- 5/8" LOCKWASHERS, CONFIRM w/VERIZON WIRELESS THE APPROVED BUSS MFR. (NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT)
- 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR APPROVED EQUIVALENT (CONFIRM w/VERIZON WIRELESS THE APPROVED BUSS MFR.)
- 5- 5/8-11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR APPROVED EQUIVALENT (CONFIRM w/VERIZON WIRELESS THE APPROVED BUSS MFR.)

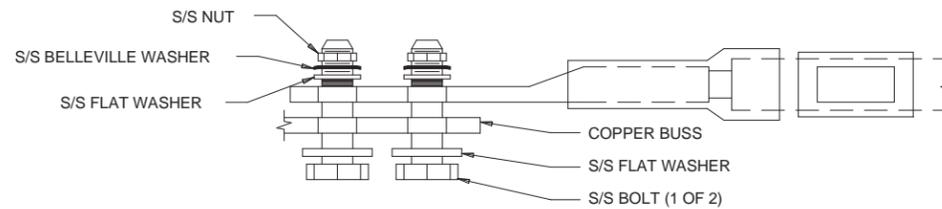
**1 GROUNDING - STANDARD GROUND BAR DETAIL**  
SCALE: N.T.S.



**3 ICE BRIGE & POST GROUNDING DETAIL**  
SCALE: N.T.S.



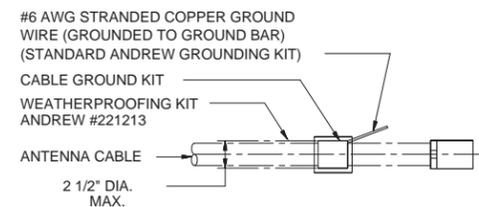
**2 STANDARD GROUND INSPECTION WELL**  
SCALE: N.T.S.



**NOTES:**

- 1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHEILD BEFORE MATING.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH KOPR-SHEILD.

**4 STANDARD LUG CONNECTION OF GROUND LEADS TO GROUND BAR DETAIL**  
SCALE: N.T.S.



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

**5 STANDARD CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE**  
SCALE: N.T.S.

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LOCATION # 288443  
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SHEET TITLE:  
**GROUNDING DETAILS**

SHEET NUMBER:  
**G-4**

**Attachment A  
NOTICE TO CONTRACTOR – ENVIRONMENTAL CONDITIONS/RESTRICTIONS AT  
(Trinity Rock Island WT – IL/WI)**

Note: Verizon Wireless makes no representation or warranty as to the accuracy or completeness of the information below. Company is fully responsible for its own compliance with all applicable laws and regulations. To the extent that Company becomes aware of any additional environmental conditions, it agrees to immediately inform Verizon Wireless.

The Company's response to this construction bid shall constitute the Company's acknowledgement and acceptance of the stated conditions and restrictions at the site.

The following environmental conditions have been identified at the project site:

Environmental Condition	Description and Location of Contaminant
<input checked="" type="checkbox"/> <b>Check All That Apply</b>	
<input checked="" type="checkbox"/> <b>Lead in Soils (confirmed)</b>	<b>Lead in Soils Analysis</b> - The results of soil sampling identified concentrations of lead in soil (94 mg/kg) above the regional background levels of 36 mg/kg; however the concentration was well below the Illinois Department of Environmental Protection ("IEPA") threshold for residential lead concentrations of 400 mg/kg. Based on the approximate Toxicity Characterization Leaching Procedure (TCLP) lead value of 4.7 mg/L which is below RCRA levels of 5.0 mg/L, soils are acceptable for purposes of disposal and will not require disposal as a hazardous waste (i.e., if offsite disposal of excess soil is required).
<input type="checkbox"/> Contaminated groundwater	
<input type="checkbox"/> Presence of asbestos	
<input type="checkbox"/> Presence of lead-based paint	
<input checked="" type="checkbox"/> <b>Other: Presence of lead-containing paint</b>	<b>Lead-Containing Paint ("LCP")</b> – Per the City of Rock Island's water tower inspection report, the paint on the exterior leg of the tower contained 840 parts per million (ppm) or 0.084% lead by weight. A second sample contained 2,600 ppm or 0.26% lead by weight. Therefore the paint on the tower is <i>lead-containing</i> , though not be definition lead-based paint.

Applicable legal requirements or Verizon Wireless policies and procedures may require that these conditions be communicated to all parties involved in the construction activities at the project site. To the extent that the scope of the project work includes measures to address these conditions, details of the work to be performed shall be as specified in the project documents and/or the Authorization Letter.

**Environmental conditions affecting scope of work:**

(see project documents for detailed specifications)

**Presence of Lead Containing Paint (LCP) and Lead in Soils:**

Verizon Wireless contractors/personnel are advised of the presence of *confirmed* LCP on the exterior leg of the tower and advised to take appropriate precautions. Painted surfaces on the tower that will be disturbed during proposed installation activities must be handled in accordance with applicable regulations (contractors must comply with applicable regulations during any disturbance of onsite soil or the LCP). Under applicable OSHA regulations, if the soil or paint contains any concentration of lead and will be disturbed (i.e. via excavation, sanding, welding, scraping, grinding, cutting, abrasive blasting, etc.) in a way to create fine mists, fumes, or fine particulate aerosols which could be inhaled or ingested by site workers, the proposed construction plans should be reviewed by a qualified individual to evaluate compliance with federal, state and local regulations, including the OSHA Safety and Health Regulations for Lead in Construction Standard (29 CFR 1926.62).

**Soil Management:**

- **Onsite Soils** – Lead-containing soil is expected to be impacted as part of the proposed construction activities. It is estimated that approximately 25 cubic yards of excess soil will be generated as part of the proposed installation activities. Any such excavated soils can be reused onsite as backfill at the point of generation.
- **Excess Soils** – If **excess** soils are generated from the project site requiring offsite disposal excavated soils must be , characterized by Verizon Wireless' environmental consultant (Trileaf Corporation) and handled in accordance with applicable state and federal guidelines.

Joe Osbourne (j.osbourne@trileaf.com)  
Group Manager  
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Schaumburg, IL 60173  
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(630) 624-0769 Mobile  
(630) 227-1212 Fax

- **Verizon Wireless-approved Waste Hauler for transport of lead-impacted waste:**

**Bodine Services of the Midwest (APPROVED for transport of non-hazardous materials only)**  
3008 Lincoln Way  
Clinton, Iowa 52732  
(563)243-1144

- **Verizon Wireless-approved Disposal Facility – Excess soils will be transported to the below approved disposal facility.**

**Millennium Waste Incorporated (APPROVED for disposal of non-hazardous materials only)**  
13606 Knoxville Road  
Milan, Illinois 61264  
(309)787-2303

**Environmental Oversight Required:** Verizon Wireless' environmental consultant (Trileaf Corporation) must be notified three weeks (3) in advance of initiation of construction so that they can properly mobilize to perform soil characterization and coordination of offsite disposal of excess soil (if required).

Company is required to comply fully with all applicable environmental, industrial hygiene, and worker health and safety laws and regulations; Verizon Wireless' directions and/or instructions contained in this Notice To Contractors. Company shall retain qualified, appropriately specialized (and/or licensed, as required) and adequately insured environmental firms for the completion of specialized work as applicable. Company shall evaluate whether a Health and Safety Plan (HASP) is warranted. Verizon Wireless shall have the final authority to approve the selection of such environmental firms performing services on its behalf. The construction bid package shall include qualifications of proposed firms with respect to the following required services:

**Environmental Services Required**

<input checked="" type="checkbox"/>	<b>Check All That Apply</b>
<input type="checkbox"/>	Asbestos abatement.
<input type="checkbox"/>	Lead based paint abatement
<input checked="" type="checkbox"/>	Hazardous or special waste transportation and disposal. <b>Lead impacted soil.</b>
<input checked="" type="checkbox"/>	Excavation, drilling or advancement through and staging/stockpiling of contaminated media. – <b>Lead impacted soil.</b>

Other: \_\_\_\_\_

Company shall ensure at all times that only appropriately trained qualified, and licensed workers perform the required environmental services. It is the responsibility of Company to adhere to the following restrictions in response to the above environmental conditions

An outside environmental "oversight" consultant is required if transportation and disposal of wastes is carried out in accordance with applicable laws, regulations and the Verizon Wireless Environmental Compliance Program. **THE USE OF SUCH CONSULTANT IS MANDATORY.**

**Site Restrictions**

<input checked="" type="checkbox"/>	<b>Check All That Apply</b>
<input type="checkbox"/>	Restrictions on excavations/construction methods. Description
<input type="checkbox"/>	Diesel fuel prohibited at construction site except in fuel tank of vehicle.
<input type="checkbox"/>	Gasoline prohibited at construction site except in fuel tank of vehicle
<input type="checkbox"/>	Other:

Contractor's Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Witness: \_\_\_\_\_

Site Name: Trinity Rock Island

Site Address: 3000 24<sup>th</sup> Street,

City: Rock Island State: Illinois

**NOTE: This signed original is to be returned to Area Compliance along with the EES Closeout Report.**

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

CONCORDIA, LTD  
A PROFESSIONAL DESIGN FIRM  
LICENSE # 3323-011-D.B.A.  
 **CONCORDIA WIRELESS, INC.**  
361 RANDY ROAD  
UNIT 101  
CAROL STREAM, IL 60188  
MAIN: (847) 981-0801

DRAWN BY: NC CHECKED BY: PS  
CHECKED BY: RH APPROVED BY: GMS

FOR REFERENCE  
ONLY

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**NOTICE TO  
CONTRACTOR**

SHEET NUMBER:  
**N-1**



METER BANK W/AVAILABLE METER SOCKET (POWER SOURCE)  
(IN NORTHWEST OF CORNER EXISTING COMPOUND)



STANDING IN SOUTHEAST CORNER OF EXISTING COMPOUND  
VIEWING PROPOSED POWER ROUTE (LOOKING NORTHWEST)



STANDING IN SOUTHEAST CORNER OF EXISTING COMPOUND VIEWING  
PROPOSED GENERATOR LOCATION (LOOKING NORTH)

**GTE WIRELESS  
MIDWEST, INC.**  
d/b/a VERIZON WIRELESS

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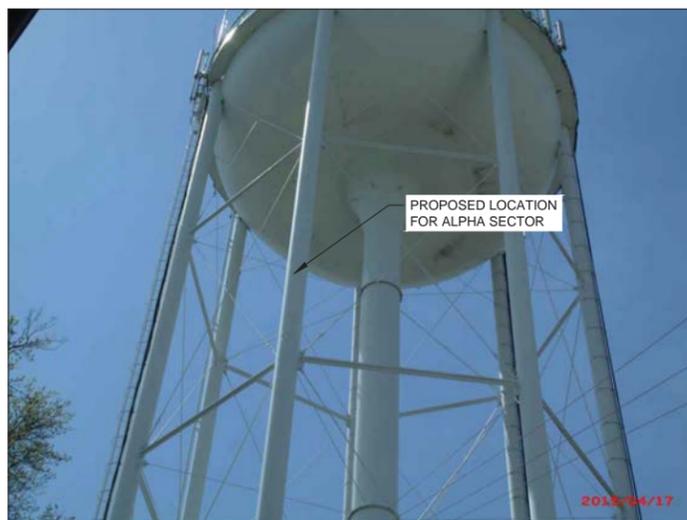
EXISTING SITE ACCESS ROAD & GATE (LOOKING FROM EAST)



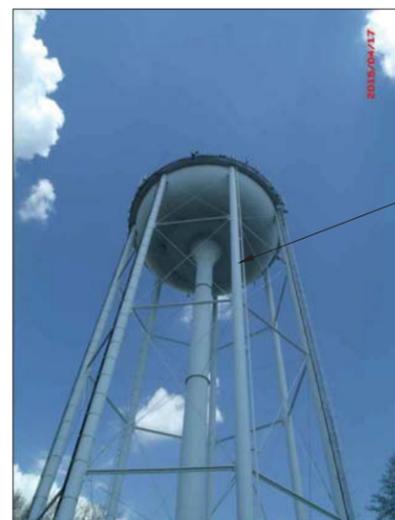
PROPOSED SITE LOCATION (LOOKING FROM EAST)



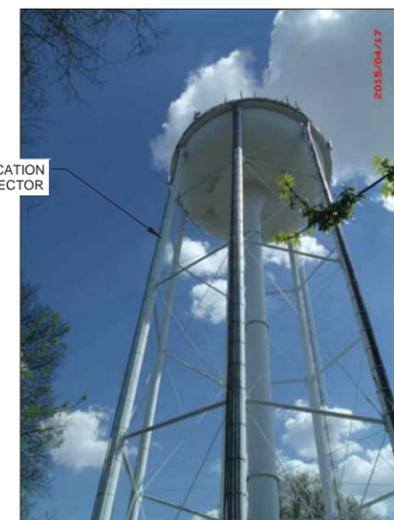
LOOKING AT PROPOSED SITE FROM NORTH



PROPOSED LOCATION OF ALPHA SECTOR (LOOKING FROM NORTHEAST)



PROPOSED LOCATION OF BETA SECTOR (LOOKING FROM SOUTHEAST)



PROPOSED LOCATION OF GAMMA SECTOR (LOOKING FROM WEST)

LOCATION # 288443  
TRINITY ROCK ISLAND  
3000 24TH ST.  
ROCK ISLAND, IL 61201

SHEET TITLE:  
**SITE PHOTO LOG**

SHEET NUMBER:  
**PL-1**