

**RESOLUTION  
R 70-17**

**A RESOLUTION APPROVING A LICENSE AGREEMENT WITH MOBILITIE,  
LLC FOR THE ATTACHMENT OF WIRELESS COMMUNICATION  
EQUIPMENT ON A VILLAGE OWNED POLE, AND AUTHORIZING THE  
VILLAGE MANAGER TO SIGN SAID LICENSE AGREEMENT ON BEHALF OF  
THE VILLAGE, AND TO EXECUTE ANY AND ALL DOCUMENTS, ON  
BEHALF OF THE VILLAGE, IN FURTHERANCE OF SAID RESTRUCTURING  
SUPPORT LICENSE AGREEMENT AND THE TERMS THEREOF**

**BE IT RESOLVED** by the President and Board of Trustees of the Village of Lombard, DuPage County, Illinois, that the President and Board of Trustees hereby approve the LICENSE AGREEMENT attached hereto as Exhibit 1 and made part hereof (the "Agreement").

**BE IT FURTHER RESOLVED** that the Village Manager is hereby authorized and directed to execute the Agreement attached hereto as Exhibit 1, on behalf of the Village, as well as execute any and all additional documents necessary to carry out the terms and provisions of said Agreement.

Adopted this 7<sup>th</sup> day of December, 2017.

Ayes: Trustee Whittington, Fugiel, Johnston, Pike and Ware

Nays: None

Absent: Trustee Foltyniewicz

Approved this 7<sup>th</sup> day of December, 2017.

  
**Keith T. Giagnorio**  
**Village President**

ATTEST:

  
**Sharon Kuderna**  
**Village Clerk**

**Exhibit 1**

**LICENSE AGREEMENT WITH MOBILITIE, LLC**

(attached)

## **LICENSE AGREEMENT**

This License Agreement (the "Agreement") made this 7<sup>th</sup> day of December, 2017 (the "Effective Date"), between the Village of Lombard, an Illinois municipal corporation, with its principal office located at 255 E. Wilson, Lombard, Illinois 60148, hereinafter designated LICENSOR or "Village" and Mobilitie, LLC, a Nevada Limited Liability Company, hereinafter designated LICENSEE. LICENSOR and LICENSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

### **WITNESSETH**

WHEREAS, LICENSOR is the owner of an existing street light pole on located on or near 22<sup>nd</sup> Street and S. Main Street in Lombard, Illinois, identified in Exhibit A; and

WHEREAS, LICENSEE desires to install, maintain and operate wireless communications equipment in and/or upon of LICENSOR's existing street light pole, as defined in Exhibit A; and

WHEREAS, LICENSOR and LICENSEE desire to enter into this Agreement to define the terms and conditions which would govern LICENSEE'S ability to install, maintain and operate wireless communications equipment as hereinafter set forth; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. **PREMISES.** Pursuant to all of the terms and conditions of this Agreement, LICENSOR agrees to license to LICENSEE that certain space on or upon LICENSOR's light pole, hereinafter identified and defined in Exhibit A, and hereinafter referred to as the "Premises", located in the LICENSOR's right-of-way (hereinafter referred to as the "Property") for the installation, operation, repair and maintenance of its wireless communications equipment, including any antenna(s), conduit, fixtures, appurtenances or personal property in relation thereto (hereinafter referred to as the "Equipment" or "Facility"); together with the non-exclusive right of ingress and egress from the Property, seven (7) days a week, twenty-four (24) hours per day to and from the Premises for the purpose of installation, operation, repair and maintenance of LICENSEE'S Equipment. The Parties acknowledge and agree that the Premises is an existing light pole and no new poles or monopoles are proposed as part of this License. A depiction of the Equipment is also Exhibit A. In the event there are not sufficient electric and telephone, cable or fiber utility sources located at the Premises or on the Property, LICENSOR agrees to grant LICENSEE the right to install such utilities on, over and/or under the Property and to the Premises as necessary for LICENSEE to operate its Equipment, provided the location of such utilities shall be designated by LICENSOR.

This license shall be for the limited purpose of installing, attaching, operating, repairing and maintaining the Equipment and the LICENSEE shall not engage in any illegal practices, anticompetitive behavior or collusion with regard to construction activities related to the installation, operation, maintenance, transfer, repair, relocation or removal of the Equipment.

Any license granted is a revocable, non-exclusive license for the purposes set forth in this Agreement. This Agreement in no way precludes the non-discriminatory issuance of other licenses to operate communications equipment within the Village of Lombard. No use, however lengthy, of the Premises by the LICENSEE shall create or vest in the LICENSEE any easement or other ownership or property right of any nature in any portion of the LICENSOR's Property or the Premises, other than expressly stated herein.

2. PERMIT APPROVAL PROCESS. LICENSEE shall submit a permit application to LICENSOR for the Premises to install its Equipment that includes detailed engineering design drawings, including any required extensions of electric, telephone, cable, or fiber to the Premises, and specifications for the Equipment. Prior to issuance of a permit for this license, LICENSEE must provide adequate documentation to demonstrate the proposed Equipment can be structurally accommodated by the Premises. LICENSEE shall be held responsible for expenses associated with a third-party consultant's assessment of the structural installation, with said expenses not to exceed an amount equal to One Thousand and No/100 Dollars (\$1,000.00). LICENSOR shall make best efforts to review the request in a timely fashion and approve or deny the request within forty-five (45) days of submittal. Failure to receive approval in forty-five (45) days does not constitute LICENSOR's approval. Permit approval will only be given if the following criteria are met:

- a) LICENSEE shall submit a site plan that shows detailed engineering design drawings, including the size, surface area, height, and specifications of proposed installation.
- b) LICENSEE shall submit documentation that the Equipment proposed shall not interfere with any LICENSOR public safety radio system, traffic signals, light system or other telecommunications components.
- c) If the Premises is located on a light pole adjacent to the front yard of a residential building, LICENSEE shall show best alternate location. LICENSEE shall show and explain the difference in service capability between the two sites. If alternate site is preferred by LICENSOR the alternate site shall be considered.
- d) LICENSEE shall not install more than one Facility on a single utility pole.
- e) LICENSEE shall not install Equipment within one hundred (100) feet from any residential building and no closer than three hundred feet (300) from any other personal wireless telecommunication facility. A lesser setback may be allowed by the Village board as a variance when the applicant establishes that the lesser setback is necessary to close a significant gap in the applicant's services and no other viable alternative location or locations are available.
- f) Upon prior approval by the Village board and in compliance with the Village of Lombard Code of Ordinances ("Code"), LICENSEE may install Equipment on property and poles owned by another party within the corporate limits of the Village of Lombard. Such approval shall not unreasonably be withheld, delayed or denied by the Village.
- g) Surface Area of Antenna. The personal wireless telecommunication antenna, including antenna panels, whip antennas or dish-shaped antennas, shall not have a surface area of more than seven square feet and no single dimension exceeding seven feet. Omnidirectional or whip antennas may not extend more than seven feet, not including any pole extension.
- h) Minimum Height of Equipment. The LICENSEE shall locate the base of the Equipment or appurtenances at a height of no lower than eight feet above grade, not including Equipment relating to connection or disconnection switches, or power meters, provided Equipment is located on the Pole. The LICENSOR has the discretion to authorize Equipment be installed at grade, provided that screening is installed to minimize the visibility of the Equipment.
- i) Height. The top of the highest point of any antenna may not extend more than seven feet above the highest point of the Premises.

- j) Color. All Equipment shall be a color that blends with the surroundings of the Premises, on which it is mounted and use non-reflective materials which blend with the materials and colors of the surrounding area and structures. Any wiring must be covered with an appropriate cover or cable shield.
- k) Antenna Panel Covering. Any antenna shall include a radome, cap or other antenna panel covering or shield and shall be of a color that blends with the color of the Premises on which it is mounted.
- l) Wiring and Cabling. Wires and cables connecting the antenna to the remainder of the Equipment shall be installed in accordance with the version of the National Electric Code and National Electrical Safety Code adopted by the LICENSOR and in force at the time of the installation of the Facility. In no event shall wiring and cabling serving the Equipment interfere with any wiring or cabling installed by a cable television or video service operator, electric utility or telephone utility.
- m) Grounding. The Equipment shall be grounded in accordance with the requirements of the most current edition of the National Electrical Code adopted by the LICENSOR and in force at the time of the installation of the Equipment.
- n) Guy Wires. No guy or other support wires shall be used in connection with the Equipment unless the Equipment is proposed to be attached to an existing utility pole, alternative antenna support structure or Village-owned infrastructure that incorporated guy wires prior to the date that an applicant has applied for a permit.
- o) Structural Integrity. The Equipment shall be designed to withstand a wind force of at least ninety miles per hour, and be designed to withstand a wind force of at least forty miles per hour which includes at least three-quarters of an inch of ice all without the use of guy wires. The LICENSEE shall provide the LICENSOR with a structural evaluation of the Premises containing a recommendation that the proposed installation passes the standards described above. The evaluation shall be prepared by a professional structural engineer licensed in the state of Illinois.
- j) If the Premises does not meet the structural requirements, the LICENSEE may propose pole or structure reinforcement or replacement, which may be granted in the discretion of the LICENSOR. LICENSEE shall provide engineering design and specifications and drawings demonstrating any proposed alterations to or replacement of the pole or structure. LICENSEE shall replace the pole or structure with the approved design at its cost.
- k) LICENSEE shall comply with all the terms and conditions of Sections 97.055 and 97.057 of the Village Code and all other applicable provisions of the Village Code relating to construction of utility facilities.

3. CONDITION OF PREMISES. LICENSEE takes and accepts the Premises "as is" in the condition in which the LICENSEE finds the Premises, with any and all latent and patent defects and with no express or implied warranties by the LICENSOR of merchantability, fitness, suitability, or that the Premises are fit for any particular purpose. The LICENSEE shall have the right to inspect the Premises prior to installing its Equipment. The LICENSOR will be responsible for the regular maintenance of the Premises and will keep the Premises in good repair as required by all federal, state, county and local laws. The LICENSOR shall have the right to temporarily remove or require the LICENSEE to temporarily

remove the LICENSEE'S Equipment in order to maintain the Premises, upon thirty (30) days' written notice to LICENSEE.

The LICENSEE shall be responsible for repairing any damage to the Premises that is disturbed or damaged during, or as a result of, the construction, reconstruction, repair, replacement, relocation, operation or maintenance of the communications Equipment.

In the event that LICENSEE shall desire to upgrade any Equipment upon any Premises, the LICENSEE shall notify the LICENSOR in writing prior to installing any such upgrade and, upon the request of the LICENSOR, file a new Permit Application for such upgrade and provide all necessary documentation to establish compliance with the provisions of Paragraph 2 herein.

4. GENERAL RESTRICTIONS. In the event LICENSOR, in its sole discretion, deems it necessary to remove, relocate, repair or replace the Premises, LICENSEE shall notify LICENSOR at least thirty (30) days prior of the need to remove or relocate its Equipment, and LICENSEE shall be solely responsible for all costs related to the relocation of its Equipment. Notwithstanding the foregoing, prior to any removal or relocation of any Equipment, the LICENSOR and LICENSEE shall mutually agree and identify a suitable replacement location, and the LICENSOR and the parties shall amend this Agreement to reflect such subsequent location upon terms and conditions substantially equivalent to the terms and conditions set forth herein. In the event of an emergency, the thirty (30) day notice period shall not apply.

In no event shall the LICENSOR be obligated to replace or modify the Premises to accommodate the LICENSEE'S Equipment. If the LICENSEE desires, the LICENSEE may replace, at its sole cost and expense, the Premises in order to accommodate the Equipment, provided that the LICENSOR has authorized and approved a replacement pole. In no event shall the LICENSOR be obligated to approve or authorize the LICENSEE to install any replacement poles.

5. TERM; LICENSE. Subject to paragraph 7 of this Agreement, this Agreement shall be for a term of ten (10) years commencing upon the execution hereof by both Parties.

In exchange for use of the Premises pursuant to this Agreement, the LICENSEE shall pay the LICENSOR an annual rental fee in the amount of Two Thousand Four Hundred and No/100 Dollars (\$2,400.00) (the "Rent"). Thereafter, Rent will increase three percent (3%) upon each annual anniversary of the Effective Date (as hereinafter defined), and be paid in advance of each anniversary of the Effective Date thereafter. LICENSOR and LICENSEE acknowledge and agree that the Rent owed for the first year of the Term shall be due to LICENSEE within thirty (30) days after the date in which the permit is issued (the "Effective Date"). Any Rent not paid in accordance with the terms herein will be assessed a late fee of ten percent (10%) per annum from the date said payment is due.

Upon agreement of the Parties, LICENSEE may pay rent by electronic funds transfer and in such event, LICENSOR agrees to provide to LICENSEE bank routing information for such purpose upon request of LICENSEE.

LICENSOR hereby agrees to provide to LICENSEE a completed Internal Revenue Service ("IRS") Form W-9, or equivalent and other documentation necessary to comply with IRS regulations for any party to whom rental payments are to be made pursuant to this Agreement. All documentation shall be acceptable to LICENSEE in LICENSEE'S reasonable discretion.

6. ELECTRICAL. LICENSEE shall be permitted to connect its Equipment to necessary electrical and telephone service, at LICENSEE'S expense. LICENSEE shall coordinate with utility companies to provide separate service to LICENSEE'S Equipment for LICENSEE use. In the event that

LICENSEE can obtain separate electrical service with a separate meter measuring usage, the LICENSEE shall pay the utility directly for its power consumption, if billed directly by the utility. In the event that separate electrical service is not possible or practical under the circumstances, LICENSEE may use existing service, at LICENSEE'S expense, upon the reasonable approval of LICENSOR. In the event that LICENSEE uses existing utility service at the Premises, the Parties agree to either: (i) attempt to have a submeter installed, at LICENSEE'S expense, which shall monitor LICENSEE'S utility usage (with a reading and subsequent bill for usage delivered to LICENSEE by either the applicable utility company or LICENSOR); or (ii) provide for an additional fee which shall cover LICENSEE'S utility usage.

LICENSEE shall be permitted at any time during the Term to install, maintain and/or provide access to and use of, as necessary (during any power interruption at the Premises), a temporary power source, and all related equipment and appurtenances within the Premises, or elsewhere on the Property in such locations as reasonably approved by LICENSOR. LICENSEE shall have the right to install conduits connecting the temporary power source and related appurtenances to the Premises. In the event such conduits affect the life expectancy of the pole, an additional reasonable fee, as mutually agreed to by the Parties, which reflects the replacement cost of the pole, may be assessed by LICENSOR after providing written notice to LICENSEE.

7. EXTENSIONS. This Agreement may be extended for two (2) additional five (5) year terms unless either Party provides written notice to the other Party of its intent to terminate this Agreement at least three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

8. USE; GOVERNMENTAL APPROVALS. LICENSEE shall use the Premises for the purpose of constructing, maintaining, repairing and operating its Equipment and uses incidental thereto. LICENSEE shall have the right to replace, repair the Equipment and the frequencies over which the Equipment operates. It is understood and agreed that LICENSEE'S ability to use the Premises is contingent upon its obtaining 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 a satisfactory structural analysis which will permit LICENSEE use of the Premises as set forth above. 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; and (iii) LICENSEE determines that such Governmental Approvals may not be obtained in a timely manner, LICENSEE shall have the right to terminate this Agreement. Additionally, if LICENSEE determines that the Premises is no longer technically viable, LICENSEE shall have the right to terminate this Agreement and remove its Equipment from the Property and Premises. Notice of LICENSEE'S exercise of its right to terminate shall be given to LICENSOR within thirty (30) days of LICENSEE obtaining knowledge of its need to terminate and shall be effective upon the mailing of such written notice by LICENSEE, or upon such later date as designated by LICENSEE. All Rent or other fees paid prior to said termination date shall be retained by LICENSOR. Upon such termination, this Agreement shall be of no further force or effect, subject to any surviving representations, warranties and indemnities contained herein. Notwithstanding anything to the contrary in this Section 8, LICENSEE shall continue to be liable for all Rent and other payments due to the LICENSOR until all Equipment is removed from the Property and Premises.

9. INSURANCE.

a. LICENSEE shall procure and maintain for the duration of this Agreement, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with LICENSEE'S operation and use of the Premises. The cost of such insurance shall be borne by LICENSEE, and shall be in the following coverage and amounts:

1. Commercial General Liability Coverage covering Comprehensive General Liability and Insurance Services covering Broad Form Comprehensive General Liability, or the most recent revision thereof, covering LICENSEE and insuring the LICENSOR and its officers, officials, employees, volunteers and agents, as additional insured's as respects liability arising out of the Premises and the Equipment, and/or arising out of activities performed by or on behalf of LICENSEE. Said insurance coverage shall be primary as respects liability assumed by LICENSEE, its officers, officials, employees, volunteers and agents.

Any insurance maintained by the LICENSOR, its officers, officials, employees, volunteers and agents shall be in excess of LICENSEE'S insurance and shall not contribute with it, but only with respect to liability assumed by LICENSEE under this Agreement. LICENSEE shall maintain limits of not less than One Million and 00/100 Dollars (\$1,000,000.00) combined single limit for any one occurrence for bodily injury, personal injury and property damage. LICENSEE shall furnish a Certificate of the Owner's and Contractor's Protective Policy Liability policy ("OCP") meeting the terms and conditions herein, including, without limitation, regarding coverage, minimum amounts and types of coverage, acceptability of insurance, additional insured's, cancellation and modification. All insurance shall be from any insurance company or companies authorized to do business in Illinois with a policy holder's rating of at least an "A minus" and a financial rating of at least "VII" in the latest edition of the Best Insurance Guide.

2. Worker's Compensation and Employers' Liability: Workers compensation limits as required by statute and Employers' Liability limits of One Million and 00/100 Dollars (\$1,000,000.00) per accident and One Million and 00/100 Dollars (\$1,000,000.00) per disease.

3. Automobile liability insurance covering all owned, hired, and non-owned vehicles in use by LICENSEE, its employees and agents, with personal protection insurance and property protection insurance to comply with the provisions of State law and minimum limits of One Million and 00/100 Dollars (\$1,000,000.00) as the combined single limit occurrence for bodily injury and property damage.

b. All policies, other than those for Worker's Compensation, shall be written on an occurrence and not on a claims made basis.

c. LICENSEE shall, prior to the Effective Date and prior to the installation of any of its Equipment and from time to time at the LICENSOR'S reasonable request during the Term, furnish to the LICENSOR certificates evidencing such coverage, which certificates shall state that such insurance coverage may not be changed or canceled without at least thirty (30) days' prior written notice to the LICENSOR.

d. LICENSEE shall not use or occupy the Premises, or permit the Premises to be used or occupied contrary to any statute, rule, order, ordinance, requirement or regulation applicable thereto, or in any manner which would cause structural injury to the Premises or which would constitute a public or private nuisance or waste.

10. LIMITATION OF LIABILITY Except as set forth in this Agreement, neither Party shall be liable to the other, or any of their respective agents, representatives, employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

The LICENSOR shall not be liable to the LICENSEE, its customers, or anyone else for the interruption of service of the LICENSEE or any interference with the operation of the LICENSEE'S Equipment.

11. INDEMNIFICATION. Except for matters arising out of the LICENSOR'S negligence or willful misconduct, LICENSEE and any agent, employee, contractor, or subcontractor of the LICENSEE shall defend, indemnify and hold harmless the LICENSOR and its officials, officers, board members, employees, agents, attorneys and contractors (collectively, the "Indemnitees") against any and all claims, causes of action, proceedings, judgments for damage or equitable relief arising in any way, including any act, omission, failure, negligence or willful misconduct in connection to the construction, repair, installation, maintenance, presence, use, relocation, transfer, removal or operation of the Equipment or the use of the Premises by the LICENSEE or by the LICENSEE'S officers, directors, employees, agents, contractors or subcontractors of the LICENSEE.

12. INTERFERENCE. LICENSEE agrees that its license is subject at all times to the LICENSOR'S right to use the Premises for its primary purpose. LICENSEE agrees to install Equipment of the type and frequency which will not cause harmful interference which is measurable in accordance with the existing industry standards to any Equipment of LICENSOR or government agency, or other licensees of the Property which existed on the Property prior to the Effective Date. In the event any after-installed LICENSEE'S Equipment causes such interference, and after LICENSOR has notified LICENSEE in writing of such interference, LICENSEE will take all reasonable steps necessary to correct and eliminate the interference, including but not limited to, at LICENSEE'S option, powering down the Equipment and later powering up such Equipment for intermittent testing. LICENSOR agrees that LICENSOR and/or any other present or future licensees of the Premises will be permitted to install only such Equipment that is of the type and frequency which will not cause harmful interference which is measurable in accordance with then-existing industry standards to the then existing Equipment of LICENSEE. The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Section and therefore, either Party shall have the right to equitable remedies, such as, without limitation, injunctive relief and specific performance.

13. REMOVAL AT END OF TERM. LICENSEE shall, within ninety (90) days of the expiration of the Term, or within ninety (90) days after any earlier termination of this Agreement, remove its Equipment, and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LICENSOR agrees and acknowledges that all of the Equipment of LICENSEE shall remain the personal property of LICENSEE and LICENSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LICENSEE to remain on the Premises after ninety (90) days following the termination of this Agreement, LICENSEE shall pay rent at one hundred and fifty percent (150%) of the then-existing monthly rate, until such time as the removal of the Equipment is completed.

14. NO WAIVER OF DUTIES. Termination of this Agreement does not relieve LICENSEE from the obligation (i) to pay any amounts due and owing to LICENSOR under the Agreement at the time of termination, or (ii) concerning any claim for damages against LICENSEE under this Agreement. LICENSOR'S rights, options, and remedies under this Agreement are cumulative, and non-exclusive. LICENSOR may pursue any or all such remedies or any other remedy or relief provided by law, whether or not stated in this Agreement. No waiver by LICENSOR of a breach of any covenant or condition of this Agreement is a waiver of any subsequent breach of the same or any other covenant or condition of this Agreement.

15. RIGHTS UPON SALE. Should LICENSOR, at any time during the Term of this Agreement decide to sell or transfer all or any part of the Property or interest in the Property thereof, such sale or transfer of interest therein shall be under and subject to the Agreement and any such purchaser or transferee shall recognize LICENSEE'S rights hereunder and under the terms of the Agreement. In the event of such sale or transfer, LICENSOR shall provide thirty (30) days' written notice to LICENSEE.

16. REMOVAL FOR NON-COMPLIANCE. The LICENSOR shall have the authority at any time to order and require LICENSEE to remove and abate any Equipment that is in violation of the LICENSOR's Code upon written notice to LICENSEE. In the event LICENSEE, after receipt of written notice of such violation, fails to cure such violation within thirty (30) days after receipt of notice thereof, or fails to diligently and in good faith cure such violation, where such remedy requires more than thirty (30) days to complete, the LICENSOR may remove the same at the expense of the LICENSEE, all without compensation or liability for damages to LICENSEE.

17. LIMITED RIGHT OF ASSIGNMENT. This Agreement may be assigned by LICENSEE without any approval or consent of the LICENSOR to LICENSEE'S principal, affiliates, subsidiaries of its principal or to any entity which acquires all or substantially all of LICENSEE'S assets in the market defined by the FCC in which the Premises or Property is located by reason of a merger, acquisition or other business reorganization provided that such acquiring entity is bound by all of the terms and conditions of this Agreement. As to other parties, this Agreement may not be sold or assigned without the written consent of the LICENSOR, which shall not be unreasonably withheld. LICENSEE shall provide the LICENSOR with written notice of any such merger, acquisition or other business reorganization with a principal, Affiliate or subsidiary of LICENSEE within a reasonable period of time prior to the consummation thereof. The parties agree and acknowledge that, notwithstanding anything in this Agreement to the contrary, certain Equipment deployed by LICENSEE in the Rights-of-Way pursuant to this Agreement may be owned and/or operated by LICENSEE'S third-party wireless carrier customers ("Carriers") and installed and maintained by LICENSEE pursuant to license agreements between LICENSEE and such Carriers. Such Equipment shall be treated as LICENSEE'S Equipment for all purposes under this Agreement provided that (i) LICENSEE remains responsible and liable for all performance obligations under the Agreement with respect to such Equipment; (ii) LICENSOR's sole point of contact regarding such Equipment shall be LICENSEE; and (iii) LICENSEE shall have the right to remove and relocate the Equipment.

18. NOTICES. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LICENSOR: Village of Lombard  
255 East Wilson  
Lombard, Illinois 60148

LICENSEE: Mobilitie, LLC  
Attn: Asset Management and Legal Department  
660 Newport Center Drive, Suite 200  
Newport Beach, CA 92660  
877-999-7070  
[assetmgmt@mobilitie.com](mailto:assetmgmt@mobilitie.com) (Asset Management); and  
[legal@mobilitie.com](mailto:legal@mobilitie.com) (Legal)

WITH A COPY TO:

Thomas P. Bayer

Klein, Thorpe & Jenkins, Ltd.  
20 N. Wacker Dr. Ste 1660  
Chicago, IL 60606

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

19. DEFAULT.

a. The following events shall be deemed to be events of default under this Agreement ("Event of Default"):

1. LICENSEE'S failure to pay Rent as provided in this Agreement or any other amount due and owing within thirty (30) days following LICENSEE'S receipt of notice thereof;

2. LICENSEE'S failure to comply with any provision of this Agreement within thirty (30) days following LICENSEE'S receipt of notice thereof;

3. Any material representation made by LICENSEE in this Agreement, or in any certificate, notice, demand response or request made in writing and delivered to the LICENSOR or any Governmental Authority pursuant to or in connection with this Agreement or any documents in furtherance thereof, which shall be untrue or incorrect in any material respect as of the date made;

4. LICENSEE abandons the Premises, which shall be defined as the failure to use the Equipment upon the Premises for wireless telecommunications for a period of six (6) months;

5. The entry of a decree or order for relief by a court having jurisdiction in an involuntary case under the federal bankruptcy laws, as now or hereafter constituted, or any other applicable federal or state bankruptcy, insolvency or other similar law, or appointing a receiver, liquidator, assignee, custodian, trustee, (or similar official) of LICENSEE for any substantial part of its property, or ordering the winding-up or liquidation of its affairs and the continuance of any such decree or order unstayed and in effect for a period of sixty (60) consecutive days;

6. The commencement by LICENSEE of a voluntary case under the federal bankruptcy laws, as now or hereafter constituted, or any other applicable federal or state bankruptcy, insolvency or other similar law, or the consent by LICENSEE to the appointment of or taking possession by a receiver, liquidator, assignee, trustee, custodian, (or similar official) of LICENSEE or of any substantial part of the Premises, or the making by any such entity of any assignment for the benefit of creditors or the failure of LICENSEE generally to pay such entity's debts as such debts become due or the taking of action by LICENSEE in furtherance of any of the foregoing, or a petition is filed in bankruptcy by others and not dismissed within thirty (30) consecutive days; and

7. LICENSOR's failure to comply with any provision of this Agreement.

b. In the event either Party to this Agreement should fail to perform or avoid its obligations herein, the Party not in breach shall provide written notice to the Party in breach setting forth the action or failure to act that constitutes the breach of this Agreement. If the breaching Party (a) fails to cure the breach within thirty (30) days after the receipt of written notice thereof; or (b) fails to diligently and in good faith commence to cure, where such breach is curable, but requires more than thirty (30) days to cure, the non-breaching Party may terminate this Agreement in addition to any other rights or remedies which may be available at law or in equity.

c. If LICENSEE fails to perform any obligations hereunder beyond any period allowed hereby for cure, after written notice has been provided as required herein, the LICENSOR may enter the Premises and perform it on LICENSEE'S behalf. In so doing, the LICENSOR may, but shall not be required to, make any payment of money or perform any other act. All sums paid by the LICENSOR, and all incidental costs and expenses, shall be due and payable by LICENSEE to the LICENSOR within thirty (30) days of written notice thereof, together with interest from the date of demand to the date of payment at the "Interest Rate". For purposes of this Agreement, the Interest Rate shall mean one percent (1%) per month on any unpaid balance due, it being understood, however, that in no event shall such Interest Rate exceed the maximum interest rate permitted by state law.

20. REMEDIES. In the event of a default by either Party, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Premises are located. Further, upon a default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation on the defaulting Party's behalf, including but not limited to the obtaining of reasonably required insurance policies. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party within thirty (30) days following the receipt of an invoice indicating such expenses. This Agreement shall be governed interpreted, construed and regulated by the laws of the state of Illinois. The Circuit Court of the 16<sup>th</sup> Judicial Circuit shall have jurisdiction and venue over any dispute with respect to this Agreement.

21. ENVIRONMENTAL. LICENSOR will be responsible for all obligations of compliance with any and all environmental and industrial hygiene laws, including any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene conditions or concerns as may now or at any time hereafter be in effect, that are or were in any way related to activity now conducted in, on, or in any way related to the Premises, unless such conditions or concerns are caused by LICENSEE'S specific activities or failures to act. To the extent permitted by law, LICENSOR shall hold LICENSEE harmless and indemnify LICENSEE from and assume all duties, responsibility and liability at LICENSOR'S sole cost and expense, for: (i) breach of any environmental compliance obligations on the Premises to the extent that such non-compliance results from conditions are not caused by LICENSEE; and (ii) any environmental or industrial hygiene conditions arising out of or in any way related to the condition of the Property or activities conducted thereon, to the extent that such environmental conditions are not caused by LICENSEE. LICENSEE shall hold LICENSOR harmless and indemnify LICENSOR at LICENSEE'S sole cost and expense, for all duties, responsibilities, and liability (for payment of penalties, sanctions, forfeitures, losses, costs, or damages) and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is in any way related to: (i) failure to comply with any environmental or industrial hygiene law, including without limitation any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene concerns or conditions as may now or at any time hereafter be in effect, to the extent that such non-compliance results from conditions caused by LICENSEE; and (ii) any environmental or industrial hygiene conditions arising

out of or in any way related to the condition of the Premises or activities conducted thereon, to the extent that such environmental conditions are caused by LICENSEE.

22. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot reasonably be expected to be repaired within forty-five (45) days following same or, if the Premises is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt LICENSEE'S operations at the Premises for more than forty-five (45) days, then LICENSEE may, at any time following such fire or other casualty, provided LICENSOR has not completed the restoration required to permit LICENSEE to resume its operation at the Premises, terminate the Agreement upon fifteen (15) days prior written notice to LICENSOR. Any such notice of termination shall cause the Agreement to expire with the same force and effect as though the date set forth in such notice were the date originally set as the expiration date of the Agreement and the Parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under the Agreement. Notwithstanding the foregoing, the Rent shall abate during the period of repair following such fire or other casualty in proportion to the degree mutually determined by the Parties to which LICENSEE'S use of the Premises is impaired.

23. APPLICABLE LAWS. During the Term, LICENSOR shall maintain the Premises in compliance with all applicable laws, rules, regulations, ordinances, directives, covenants, easements, zoning and land use regulations, and restrictions of record, permits, building codes, (collectively, "Laws"). LICENSEE shall, in respect to the condition of the Premises and at LICENSEE'S sole cost and expense, comply with (i) all Laws relating solely to LICENSEE'S specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LICENSEE in the Premises.

24. BOND; CASH ESCROW. LICENSEE shall deposit with LICENSOR on one occasion prior to executing this Agreement, a bond in a form reasonably acceptable to LICENSOR in the amount of Ten Thousand and No/100 Dollars (\$10,000.00), to guarantee the safe and efficient removal of any Equipment from the Premises, which Equipment remains more than ninety (90) days after the payment Rent has ceased and LICENSEE has failed to remove the Equipment. The funds may also be used to restore the Premises to its original condition, if LICENSEE fails to do so within sixty (60) days of receipt of notice. The time frame to complete restoration may be extended based on unforeseen circumstances or by mutual agreement.

25. MISCELLANEOUS. This Agreement hereunder contain all agreements, promises and understandings between the LICENSOR and the LICENSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either the LICENSOR or the LICENSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement, or to exercise any of its rights hereunder, shall not waive such rights and such Party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed interpreted, construed and regulated by the laws of the state of Illinois.

26. AUTHORIZATION. LICENSEE certifies and warrants that it has the authority to enter into this Agreement.

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

**LICENSOR:**

**Village of Lombard, an Illinois  
municipal corporation**

WITNESS

Sharon Kuderna

By: [Signature]

Its: Village President

Date: December 7, 2017

**LICENSEE:**

**Mobilitie, LLC**

By: [Signature]

WITNESS

[Signature]

EXHIBIT A  
**Premises and Equipment**

# SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:

9ILB001128D/CH90XS792D

LATITUDE/LONGITUDE:

41.845811/-87.992261

CROSS STREET:

22ND ST & S MEYERS RD

CITY, STATE, ZIP:

LOMBARD, IL 60148



IF YOU DO IN ANY STATE  
CALL 811 FOR THE LOCAL  
"ONE CALL CENTER" -  
IT'S THE LAW

THE ENGINEER HAS REVIEWED THE SITE AND THE CONSTRUCTION  
DRAWINGS AND FOUND THEM TO BE IN ACCORDANCE WITH THE  
REQUIREMENTS OF THE ILLINOIS CONSTRUCTION ACT AND  
THE ILLINOIS ENGINEERING ACT. THE ENGINEER HAS REVIEWED  
THE CONSTRUCTION AND CONSTRUCTION OF THE PROJECT AND  
THE CONSTRUCTION OF THE PROJECT AND THE CONSTRUCTION  
OF THE PROJECT AND THE CONSTRUCTION OF THE PROJECT.

## GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A  
TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE  
MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT  
DEVELOPMENT OR CONSTRUCTION. THE PROJECT WILL NOT  
AFFECT THE EXISTING TRAFFIC OR TRASH DISPOSAL. NO  
SERVICE, PORTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND  
NO COMMERCIAL SERVICE IS PROPOSED.

## SITE INFORMATION

|                   |                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------|
| SITE ID:          | 9ILB001128D                                                                                         |
| CASCADE ID:       | CH90XS792D                                                                                          |
| LATITUDE:         | 41.845811                                                                                           |
| LONGITUDE:        | -87.992261                                                                                          |
| CROSS STREET:     | 22ND ST & S MEYERS RD                                                                               |
| CITY, STATE, ZIP: | LOMBARD, IL 60148                                                                                   |
| COUNTY:           | DUPAGE COUNTY                                                                                       |
| JURISDICTION:     | VILLAGE OF LOMBARD                                                                                  |
| PROPERTY OWNER:   | PUBLIC RIGHT-OF-WAY                                                                                 |
| APPLICANT:        | MOBILITE, LLC<br>120 S RIVERVIEW PLAZA,<br>SUITE 1200<br>CHICAGO, IL 60608<br>PHONE: (312) 638-6400 |

## ENGINEER

JACOBS ENGINEERING GROUP, INC.  
6448 BELLS FERRY ROAD  
ACWORTH, GA 30102  
CONTACT: KARL KRATINA  
PROJECT MANAGER  
TEL: (678) 460-1416  
PROJECT: ER000201

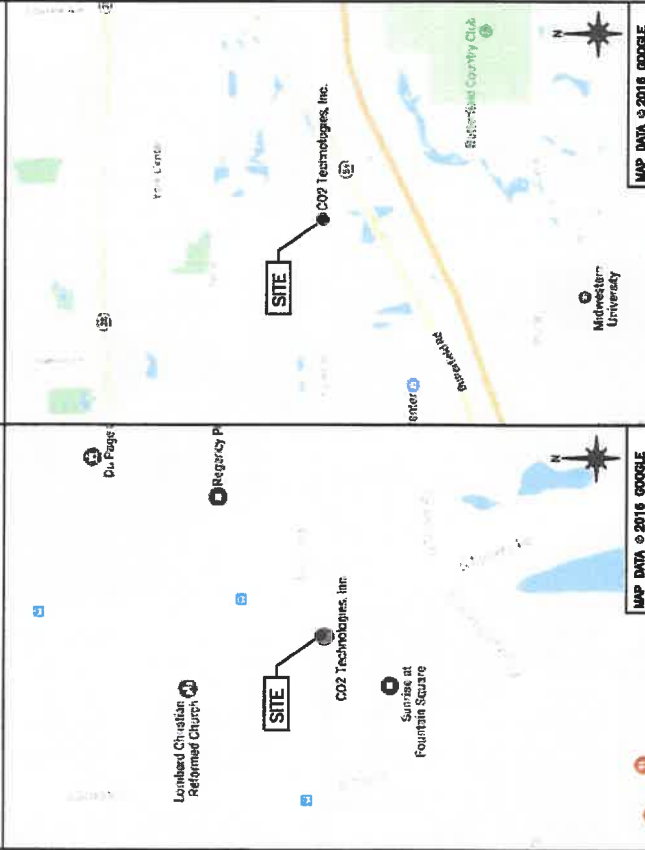
## DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD  
CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE  
ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE  
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

## LOCATION MAPS

### VICINITY MAP

### REGIONAL MAP



MAP DATA © 2016 GOOGLE

MAP DATA © 2016 GOOGLE

## PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON AN  
EXISTING STEEL POLE WITHIN AN EXISTING RIGHT-OF-WAY.  
THE SCOPE WILL CONSIST OF THE FOLLOWING:  
-- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON  
AN EXISTING STEEL LIGHT POLE

## CODES

INTERNATIONAL BUILDING CODE  
NATIONAL FIRE PROTECTION ASSOCIATION  
TIA/EIA-222-G-2 FOR LATEST EDITION  
LOCAL BUILDING/PLANNING CODE

## DRAWING INDEX

| SHEET NO: | TITLE SHEET                    | SHEET TITLE |
|-----------|--------------------------------|-------------|
| T-1       | EXHIBIT PHOTO & SITE PLAN      |             |
| SP-1      | POLE ELEVATIONS                |             |
| EV-1      | POLE ELEVATIONS                |             |
| EV-2      | PLUMBING & RISER DIAGRAM       |             |
| PL-1      | EQUIPMENT DETAILS              |             |
| ED-1      | EQUIPMENT DETAILS              |             |
| ED-2      | EQUIPMENT DETAILS              |             |
| ED-3      | EQUIPMENT DETAILS              |             |
| E-1       | EQUIPMENT DETAILS              |             |
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| TD-1      | VEHICULAR TRAFFIC CONTROL PLAN |             |
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| GN-1      | GENERAL NOTES                  |             |
| GN-2      | GENERAL NOTES                  |             |
| GN-3      | GENERAL NOTES                  |             |

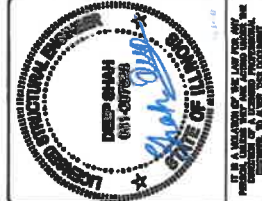
**mobilitie**  
insight technology

120 S RIVERVIEW PLAZA,  
SUITE 1200  
CHICAGO, IL 60608  
PHONE: (312) 638-6400

PROJECT NO: ER000201  
DRAWN BY: F. ARDO  
CHECKED BY: M. RATHBURN

PRELIM - NOT FOR CONSTRUCTION

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
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CH90XS792D  
9ILB001128D  
22ND ST &  
S MEYERS RD  
LOMBARD, IL 60148  
LIGHT POLE

SHEET TITLE  
TITLE SHEET

SHEET NUMBER  
T-1

EXHIBIT

A



**SCALE: NOT TO SCALE**



SCALE: NOT TO SCALE



(E) POINT OF CONTACT TO BE UTILIZED FOR POWER (TO BE VERIFIED)

(E) OVERHEAD-  
UTILITY LINE (TYP.)

**(c) Administrative**

BY US, SIGNED POWER SOURCE  
**INSTALLED BY UTILITY COMPANY (TO BE  
 VERIFIED)**

(E) UTILITY ✓

COVER  
TRANSFORMER  
(TYP.)

(E) TRAFFIC

LIGHT/SIGN

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



1

7.2

13.4

CHANT  
EST

ANALYSIS  
ION AREA  
(TIN)

(E) TRAFFIC

10

1

**NOTE:** THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY, PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

ENLARGED SITE PLAN

SCALE: 1" = 30'-0" 1/4" = 15'-0" ON 22"x34" SHEET

CH80XS792D  
9ILB001128D  
22ND ST &  
S MEYERS RD  
OMBARD, IL 60148  
LIGHT POLE

## SWEET TIPS

EXHIBIT PHOTO &amp; SITE PLAN

**REVISION SHEET NUMBER**

**SP-1**

|             |             |
|-------------|-------------|
| PROJECT NO: | ER6M0281    |
| DRAWN BY:   | F. ABIG     |
| CHECKED BY: | M. RATOWSKY |

**PRELIM - NOT FOR CONSTRUCTION**

|        |                            |
|--------|----------------------------|
| 121419 | ASTM - WY FOR CONSTRUCTION |
|--------|----------------------------|

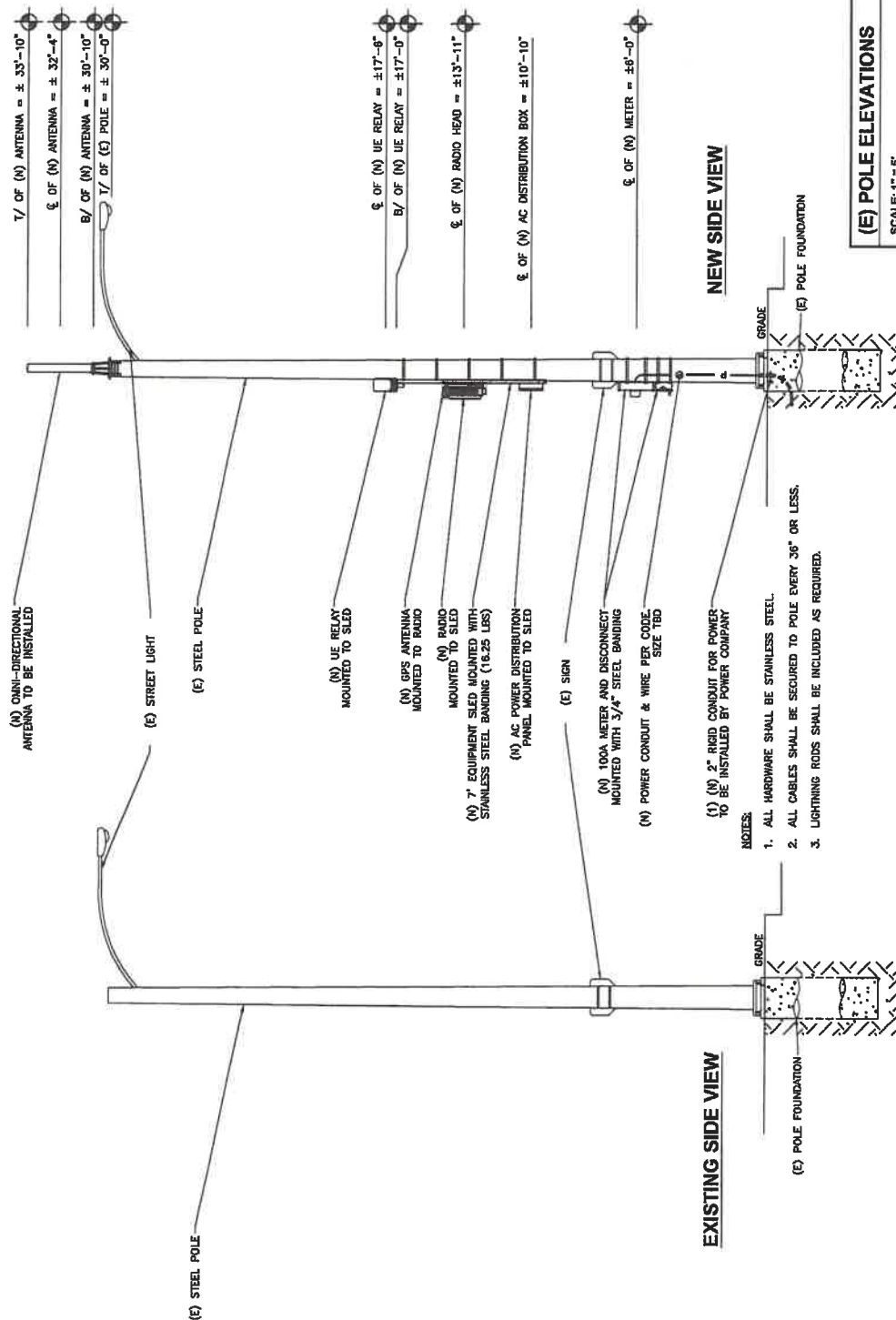


IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

CH90XS792D  
91LB001128D  
22ND ST &  
S MEYERS RD  
LOMBARD, IL 60148  
LIGHT POLE

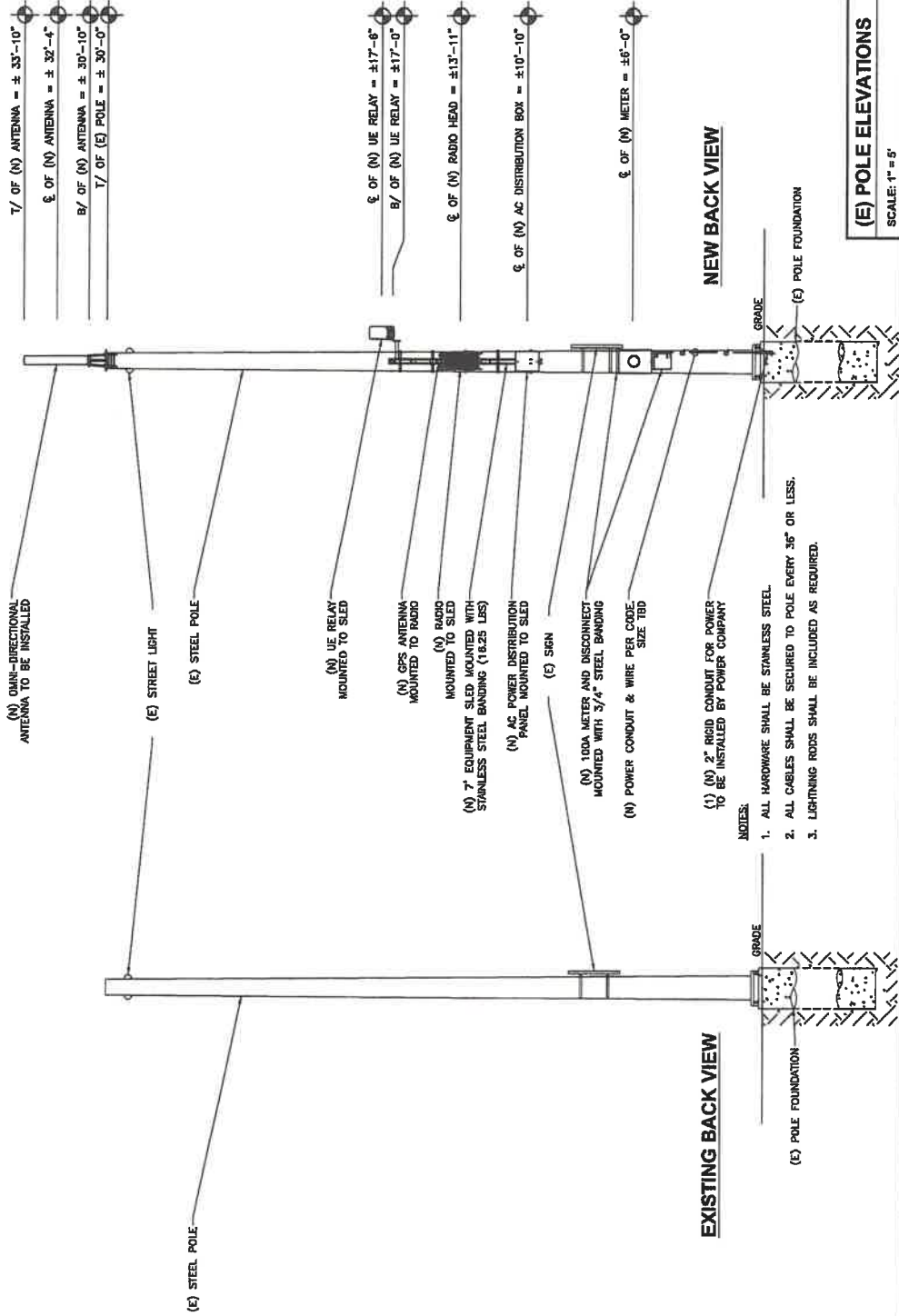
**SHEET TITLE**  
**POLE ELEVATIONS**

**SHEET NUMBER**  
**EV-1**



**(E) POLE ELEVATIONS**

SCALE: 1" = 5'



**NEW BACK VIEW**

**EXISTING BACK VIEW**

- NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
  2. ALL CABLES SHALL BE SECURED TO POLE EVERY 36" OR LESS.
  3. LIGHTNING RODS SHALL BE INCLUDED AS REQUIRED.

(E) POLE ELEVATIONS  
SCALE: 1" = 5'

NOTE:  
(3) POLE MOUNTED EQUIPMENT  
NOT SHOWN FOR CLARITY.

(N) ANTENNA  
(MODEL MAY VARY)

(2) (N) 1/2" DIA. COAX  
CABLES RUN INSIDE PVC  
RISER ATTACHED TO POLE

(N) UE RELAY ANTENNA

(N) GPS ANTENNA

(N) RADIO HEAD

(N) AC DISTRIBUTION BOX

(N) 1/2" DIA. POWER  
CABLE RUN INSIDE PVC  
RISER ATTACHED TO POLE

(N) POWER CABLE TO BE  
RUN INSIDE RIGID  
GALVANIZED STEEL CONDUIT  
ATTACHED TO POLE

(N) METER AND DISCONNECT

(N) POWER CABLE TO BE  
RUN INSIDE RIGID  
GALVANIZED STEEL CONDUIT  
ATTACHED TO POLE

(E) POLE

GRADE

(1) (N) 2" RIGID CONDUIT TO  
BE INSTALLED FOR POWER

CONCRETE FOUNDATION  
TO BE UTILIZED FOR POWER  
RENEW

## PLUMBING DIAGRAM

SCALE: NOT TO SCALE

1

NOTE:  
THIS DIAGRAM IS FOR CLARITY OF  
CABLEING. FOR CLARITY OF  
CABLEING, THE FOLLOWING  
CONNECTIONS SHALL BE MADE:  
WITH MINIMAL VISUAL IMPACT ON (E)  
STEEL POLE. SEE ELEVATION DRAWING  
FOR EQUIPMENT AND ANTENNA  
LOCATIONS.

NOTE:  
REFER TO STRUCTURAL ANALYSIS REPORT  
(SEPARATE DOCUMENT) FOR ADDITIONAL  
STRUCTURAL INFORMATION.

### CABLEING NOTES:

- WOOD, CONCRETE AND EXISTING METALLIC POLES  
FROM GRADE LINE TO 11'-0" ABOVE GRADE, ALL  
CABLES/CONDUCTORS EXCEPT GROUNDING CONDUCTORS  
MUST RUN IN RIGID GALVANIZED STEEL CONDUIT (RGS)  
MUST BE INSTALLED IN PVC.
- GROUNDING CONDUCTORS IN EXPOSED LOCATIONS  
MUST BE INSTALLED IN PVC.
- IN EARTH INSTALL PVC CONDUIT FOR BACKHAUL  
AND ELECTRICAL SERVICE. TRANSITION TO RGS AT  
GRADE LINE.
- ABOVE 11'-0" ALL CABLES (POWER, ETHERNET,  
CONAX) MUST RUN IN PVC UTILITY POLE RISER.  
(1) AT MAJOR EQUIPMENT EXTEND UTILITY DUCT  
CABLES IN THE UTILITY POLE RISER CREATING  
CABLE DROP LOOPS NOT LESS THAN THE CABLE  
BENDING RADIUS.
- INSIDE THE UTILITY POLE RISER, UTILIZE 1/2"  
CABLE TUBES WITH 1/4" BORE FOR COAX, AND  
ETHERNET CABLES TO WITHIN 12" OF THE  
EQUIPMENT BEING SERVED AND ON INTERVALS NOT  
TO EXCEED 6".
- FOR UNDERGROUND IFC/PUBLIC BACKHAUL, ROUTE  
ETHERNET CABLE IN CONDUIT UP THE POLE AND  
ENTER THE UTILITY POLE RISER. SEAL EXPOSED END  
OF CONDUIT WITH A CABLE TERMINATION FITTING.
- BY APPROVAL IN SELECT CASES LIQUID-TIGHT  
FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN  
LOCATIONS NOT EXPOSED TO THE  
ELEMENTAL SEVERE CLIMATE. THE LFMC  
DISCONNECT ON POLE W/ AC DISTRIBUTION BOX ON  
OPPOSITE SIDE OF POLE.
- NEW METALLIC POLES  
(1) PROCURE NEW POLES WITH SUITABLE HAND HOLES  
SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT  
LOCATIONS.  
(2) WITH CLIENT APPROVAL IN SELECT CASES TO  
FACILITATE IMPROVED APPEARANCE, 1/2" CONICAL  
CABLES MAY BE "SUPERFLEX" IN LIEU OF LIEF-4.  
(3) WHERE POSSIBLE, INSTALL POLE BASE SUCH THAT THE  
ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND)  
CIRCUIT ENTER THE POLE THROUGH THE POLE BASE. IF A  
DISCONNECTING MEANS SEPARATE FROM THE AC  
CIRCUIT, THE DISCONNECTING MEANS SHALL BE INSTALLED ON  
UTILITY WITH APPROVAL IN SELECT CASES. LOCATIONS OR  
FLEXIBLE METALLIC CONDUIT (LFMC) MAY BE USED IN  
LENGTHS NOT TO EXCEED 36" TO EXTEND THE ELECTRICAL  
SERVICE CONDUIT TO THE AC DISTRIBUTION BOX.

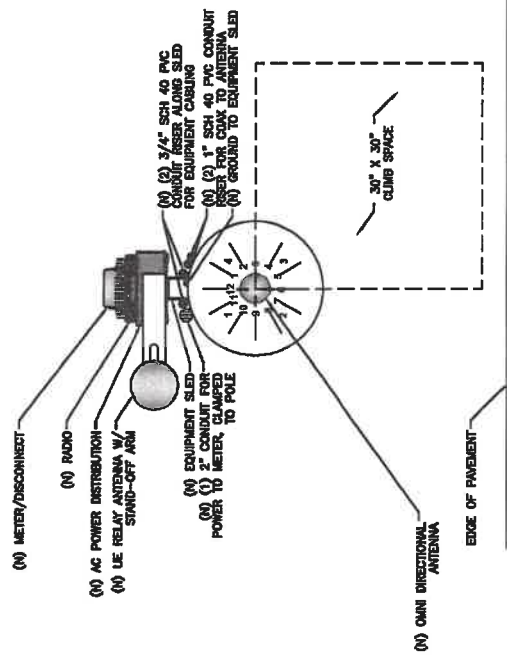
## EQUIPMENT CHART

| QTY. | DESCRIPTION             | MANUFACTURER    | MODEL NUMBER       | CABLE | DIMENSIONS (HxWxD)    | WEIGHT   |
|------|-------------------------|-----------------|--------------------|-------|-----------------------|----------|
| 1    | ANTENNA                 | PLASMA ANTENNAS | LONG SEA S3000     | 16'±  | 35.4" X 4.7" DIAMETER | 11 LBS   |
| 1    | UE RELAY                | ARISPA          | IR400-379-S1-1-J-O | 3'±   | 13" X 7" DIAMETER     | 8.8 LBS  |
| 1    | GPS                     | TALLSMAN        | TR5012             | —     | —                     | —        |
| 1    | RADIO                   | ARISPA          | AH4000/H4H40       | 3'±   | 0.8" X 2.6" DIAMETER  | 0.5 LBS  |
| 1    | AC DISTRIBUTION PANEL   | TRANSISTOR      | 1101-1207-1012     | 1'±   | 20.5" X 10.3" X 8.3"  | 42 LBS   |
| 1    | METER SOCKET            | MILBANK         | U4001-XL-6TB       | 202'± | 19" X 13" X 4.94"     | 17 LBS   |
| 1    | NEMA TYPE-3R DISCONNECT | SQUARE D        | D221NWB            | 1'±   | 9.83" X 7.25" X 3.70" | 21 LBS   |
| 1    |                         |                 |                    |       |                       | 4.82 LBS |

## BILL OF MATERIALS

SCALE: NOT TO SCALE

2



## RISER ORIENTATION DIAGRAM

SCALE: NOT TO SCALE

3

**mobilitie**  
UNIVERSITY OF ILLINOIS

120 S RIVERSIDE PLAZA,  
SUITE 1800  
CHICAGO, IL 60606  
PHONE: (312) 636-6400

PROJECT NO: ERM00001  
DRAWN BY: F. ABROS  
CHECKED BY: M. HATOWSKY

PRELIM - NOT FOR CONSTRUCTION

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

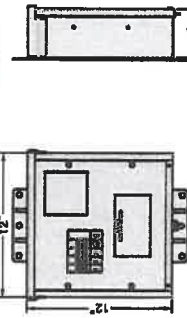
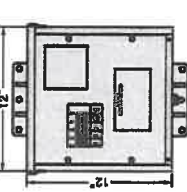
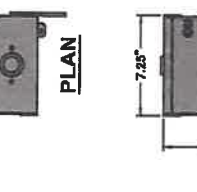
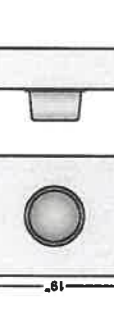
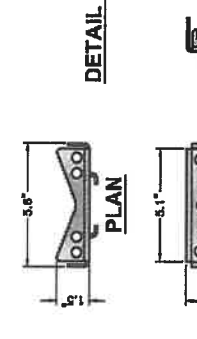
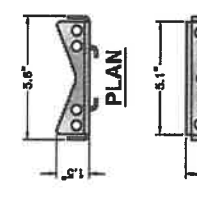
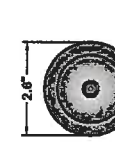
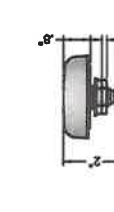
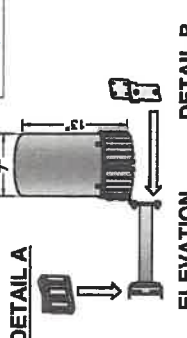
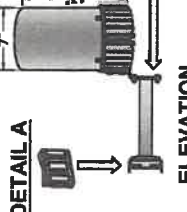
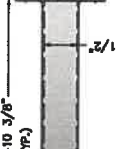
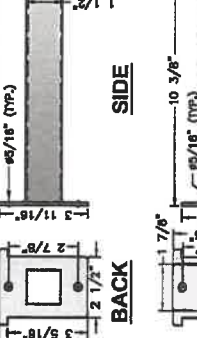
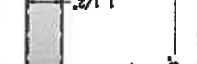
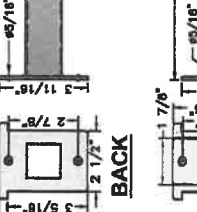
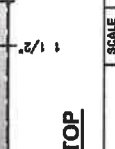
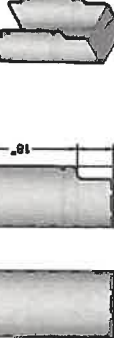
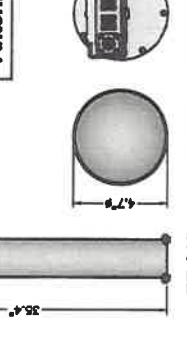
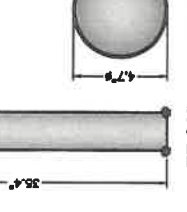
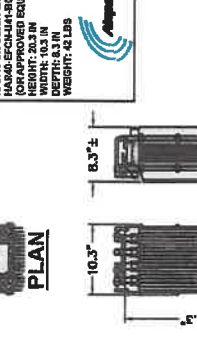
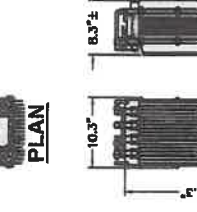
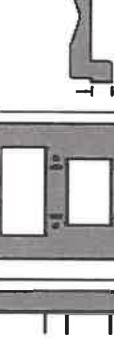
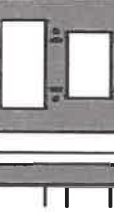


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ON ANY DOCUMENT, TO SIGN THIS DOCUMENT

CH80K5792D  
91L30D1128D  
22ND ST &  
S METERS RD  
LOMBARD, IL 60148  
LIGHT POLE

SHEET TITLE  
PLUMBING & RISER DIAGRAM

SHEET NUMBER  
PL-1

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <div>  <p>120 S RIVERSIDE PLAZA,<br/>SUITE 1000<br/>CHICAGO, IL 60608<br/>PHONE: (312) 639-6400</p> </div>                                                                                                                                                                                                                                                                                                                                                         |                                             | <div> <p>PROJECT NO: B000001</p> <p>DRAWN BY: F. ARBOO</p> <p>CHECKED BY: M. MATYSEWICZ</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <div> <p>PRELIM - NOT FOR CONSTRUCTION</p> </div> | <div>  <p>STATE OF ILLINOIS</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                           | <div> <p>CH800/S702D<br/>9L800/1128D<br/>22ND ST &amp;<br/>S MEYERS RD<br/>LOMBARD, IL 60148<br/>LIGHT POLE</p> </div> | <div> <p>SHEET TITLE<br/>EQUIPMENT DETAILS</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <div> <p>SHEET NUMBER<br/>EQ-1</p> </div>   |
| <div> <p>MANUFACTURER: TRANSECTOR<br/>MODEL: T1101-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>          | <div> <p>SCALE: N.T.S.</p> <p>10</p> </div> | <div> <p>MANUFACTURER: SQUARE-D<br/>MODEL: 022NHR<br/>HEIGHT: 8.63 IN<br/>WIDTH: 7.25 IN<br/>DEPTH: 3.75 IN<br/>WEIGHT: 4.82 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>PLAN</p> </div>            | <div> <p>SCALE: N.T.S.</p> <p>7</p> </div>        | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>         | <div> <p>SCALE: N.T.S.</p> <p>11</p> </div>                                                                            | <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: SBA SC-800<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>                  | <div> <p>SCALE: N.T.S.</p> <p>12</p> </div> |
| <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>       | <div> <p>SCALE: N.T.S.</p> <p>4</p> </div>  | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>       | <div> <p>SCALE: N.T.S.</p> <p>8</p> </div>        | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>       | <div> <p>SCALE: N.T.S.</p> <p>9</p> </div>                                                                             | <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div>       | <div> <p>SCALE: N.T.S.</p> <p>10</p> </div> |
| <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>4</p> </div>  | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>8</p> </div>        | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>9</p> </div>                                                                             | <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>10</p> </div> |
| <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>4</p> </div>  | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>8</p> </div>        | <div> <p>MANUFACTURER: TALLYSMAN<br/>MODEL: T1000-1207-1012<br/>HEIGHT: 12 IN<br/>WIDTH: 12 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 11 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>9</p> </div>                                                                             | <div> <p>MANUFACTURER: AIRSPAN<br/>MODEL: IR460-SPB-ST-1-P-0<br/>HEIGHT: 13 IN<br/>WIDTH: 13 IN<br/>DEPTH: 4 IN<br/>WEIGHT: 8.1 LBS</p>  </div> <div>  <p>FRONT</p>  <p>SIDE</p>  <p>BOTTOM</p> </div> | <div> <p>SCALE: N.T.S.</p> <p>10</p> </div> |

**mobilitie**  
The Right Infrastructure

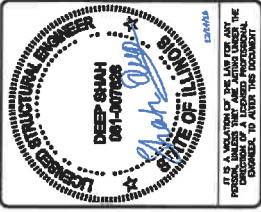
120 S RIVERSIDE PLAZA,  
SUITE 1800  
CHICAGO, IL 60606  
PHONE: (312) 636-3400

PROJECT NO: E606021  
DRAWN BY: F. ASOG  
CHECKED BY: M. RATOWSKY

PRELIM - NOT FOR CONSTRUCTION

1. MOUNTING BRACKET ACCOMMODATES POLE SIZES FROM 6" TO 9" DIAMETER.  
2. BRACKET MUST BE PREPARED BY A STRUCTURAL EVALUATOR FOR THE MOUNTING BRACKET. REFER TO THE MANUFACTURER FOR ADDITIONAL INFORMATION.

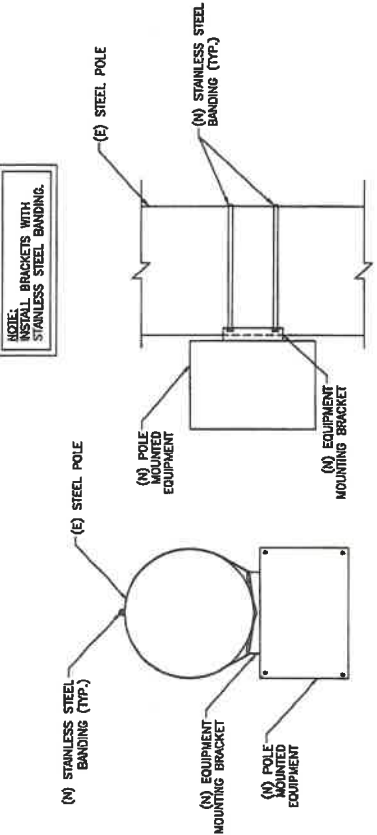
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



CHRONOS2020  
91LB001128D  
22ND ST A  
3 METERS RD  
LOMBARD, IL 60146  
LIGHT POLE

SHEET TITLE  
EQUIPMENT DETAILS

SHEET NUMBER  
EQ-2

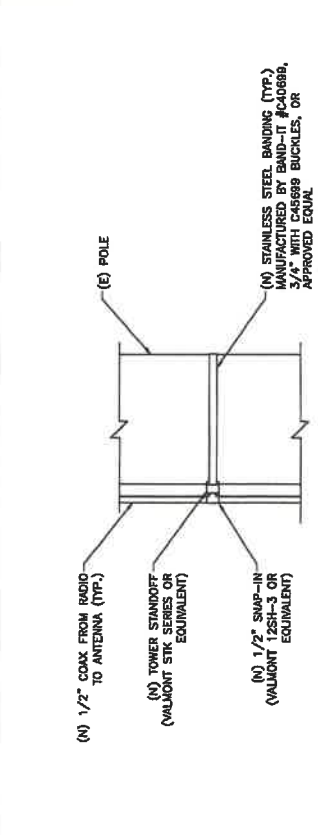


**TOP VIEW**

**SIDE VIEW**

**EQUIPMENT MOUNTING DETAIL**

SCALE: NOT TO SCALE

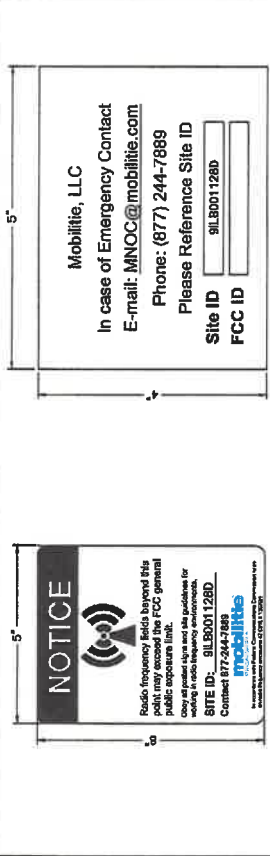


**CABLE MOUNTING DETAIL**

SCALE: NOT TO SCALE

**ANTENNA MOUNTING DETAIL**

SCALE: NOT TO SCALE

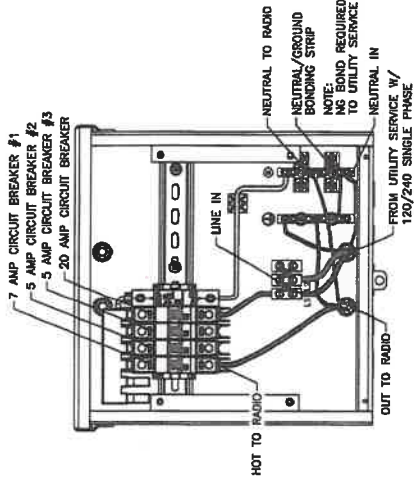


**ANTENNA SIGNAGE**

**EMERGENCY CONTACT SIGN**

**POLE MOUNTED SIGNS**

SCALE: NOT TO SCALE



### TRANSECTOR EXPORT AC DISTRIBUTION BOX

#### BREAKER SCHEDULE

SCALE: NOT TO SCALE

2

#### NOTES:

1. AIRHARMONY 1000: MAX CURRENT FROM RATED CURRENT ON UL EQUIVALENT GRANT. MAX POWER CALCULATED FROM MAX CURRENT X 120 VOLT. MAX CURRENT FROM RATED CURRENT ON UL EQUIVALENT GRANT. MAX POWER CALCULATED FROM MAX CURRENT X 120 VOLT. MAX CURRENT FROM RATED CURRENT ON UL EQUIVALENT GRANT. MAX POWER CALCULATED FROM MAX CURRENT X 120 VOLT.
2. AIRHARMONY 4000: MAX CURRENT FROM RATED CURRENT ON UL EQUIVALENT GRANT. MAX POWER CALCULATED FROM MAX CURRENT X 120 VOLT. MAX CURRENT FROM RATED CURRENT ON UL EQUIVALENT GRANT. MAX POWER CALCULATED FROM MAX CURRENT X 120 VOLT.
3. MAX POWER BY MINIMAL OPERATING VOLTAGE. N/A IS CALCULATED ASSUMING PF=1 AND USING MAX POWER.
4. NSN - B41 HIGH: MAX POWER FROM NOKIA DATA SHEET AND INCLUDES POE OUTPUT POWER. MAX CURRENT IS CALCULATED BY DIVIDING MAX POWER BY MINIMAL OPERATING VOLTAGE. N/A IS CALCULATED ASSUMING PF=1 AND USING MAX POWER.
5. NSN - B41 LOW: MAX POWER FROM NOKIA DATA SHEET AND INCLUDES POE OUTPUT POWER. MAX CURRENT IS CALCULATED BY DIVIDING MAX POWER BY MINIMAL OPERATING VOLTAGE. N/A IS CALCULATED ASSUMING PF=1 AND USING MAX POWER.
6. FASTBACK 1BR-1211-36: CONSUMPTION ACCOUNTED FOR IN THE INVERTER LOSS.
7. FASTBACK 1BR-AG-P04: MAX POWER OUTPUT FROM GEN DATA SHEET. MAX CURRENT IS CALCULATED AS MAX POWER OUTPUT DIVIDED BY MINIMAL OPERATING VOLTAGE. N/A IS CALCULATED ASSUMING PF=1 AND USING MAX POWER.
8. AIRSPAN 1R460: CONSUMPTION ACCOUNTED FOR IN RADIO CONSUMPTION.

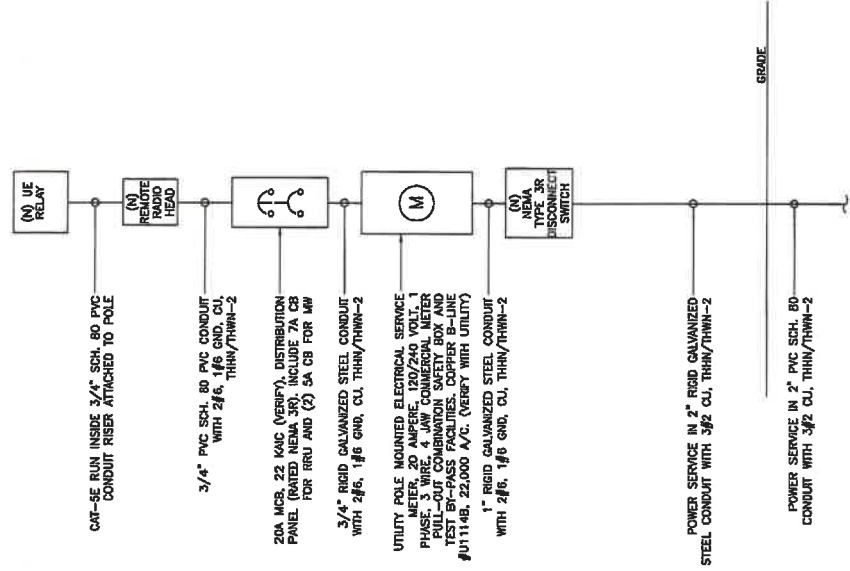
#### Airspan Scenario 2 AIR4000 High Power Radio and UE Backhaul

| Unit            | Calc Data (Amps) | Current (A) | PVA  | kW/Per |
|-----------------|------------------|-------------|------|--------|
| AirHarmony 4000 | 540              | 4.50        | 0.54 | 4730.4 |
| UE Base Station | N/A              | N/A         | 0    | 0      |
| Airspan 1R460   | 540              | 4.50        | 0.54 | 4730.4 |
| Total           |                  |             |      |        |

#### ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

1

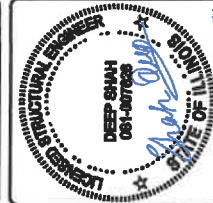


**mobilite**  
 120 S RIVERSIDE PLAZA,  
 CHICAGO, IL 60606  
 PHONE: (312) 638-5400

PROJECT NO: ER000001  
 DRAWN BY: F. ABOG  
 CHECKED BY: M. RATHBURN

PRELIM - NOT FOR CONSTRUCTION

|   |         |                               |
|---|---------|-------------------------------|
| A | 12/1/12 | PRELIM - NOT FOR CONSTRUCTION |
|---|---------|-------------------------------|



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 PERSON UNLESS THEY ARE A LICENSED  
 ENGINEER TO ALTER THIS DOCUMENT

CH0045702D  
 9118001128D  
 22ND ST A  
 S METERS RD  
 LOMBARD, IL 60148  
 LIGHT POLE

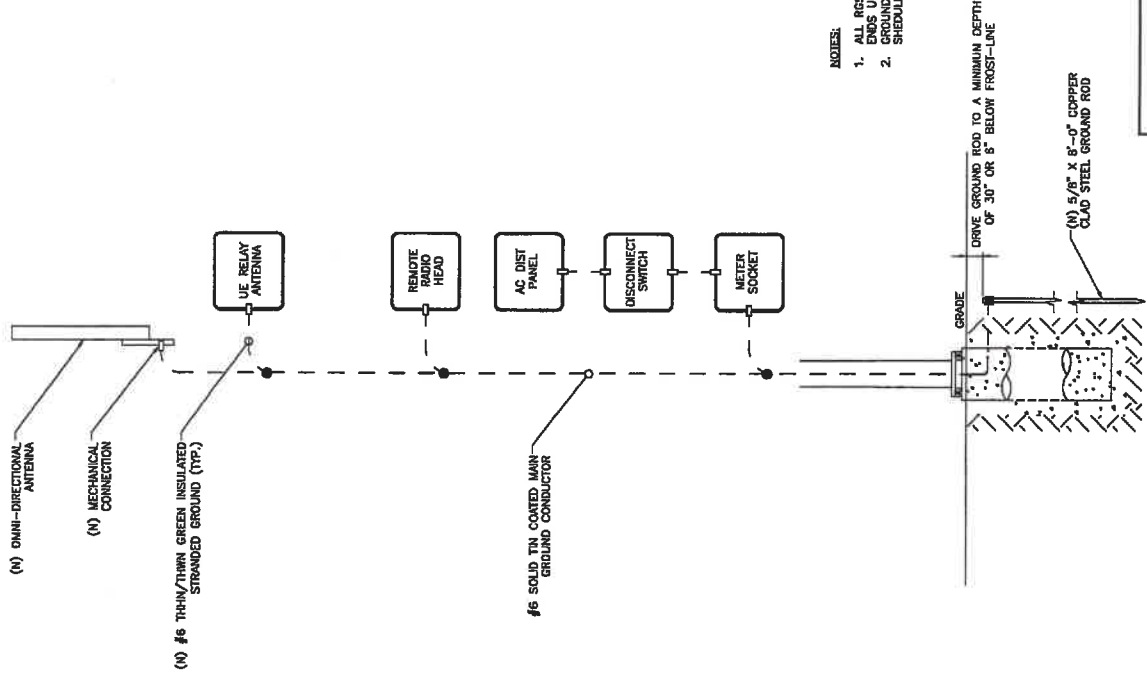
SHEET TITLE  
 GROUNDING DETAILS

SHEET NUMBER  
 G-1

- LEGEND
- CABLED CONNECTION
  - MECHANICAL CONNECTION
  - COMPRESSION CONNECTION

NOTE:  
 GROUNDING RISER FOR DIAGRAMATIC  
 REPRESENTATION OF ELEVATION PLANNING  
 FOR EQUIPMENT AND ANTENNA LOCATIONS.

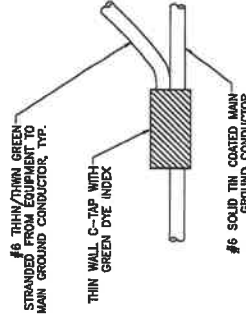
- NOTES:
1. ALL RGS TO BE GROUND AT BOTH  
 ENDS USING GROUNDING BUSHINGS
  2. GROUND WIRE TO BE RUN IN 1/2"  
 SCHEDULE 40 PVC.



GROUNDING RISER DIAGRAM  
 SCALE: NOT TO SCALE

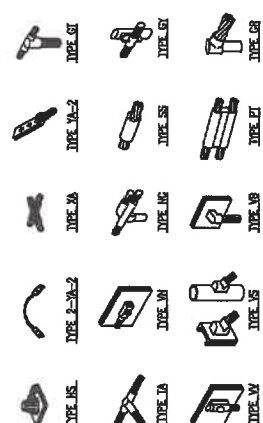
3

NOTE:  
 C-TAP CONNECTOR TO SURROUND COMPLETED  
 CONNECTION WITH NEAT-SHRINK TUBING  
 ENSURE WEATHER PROOF CONNECTION



C-TAP DETAIL  
 SCALE: NOT TO SCALE

1



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

WELD CONNECTION DETAILS  
 SCALE: NOT TO SCALE

2

# PLAN NOTES:

1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT VISIBILITY OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS. DISTANCES SHOULD BE INCREASED FOR HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

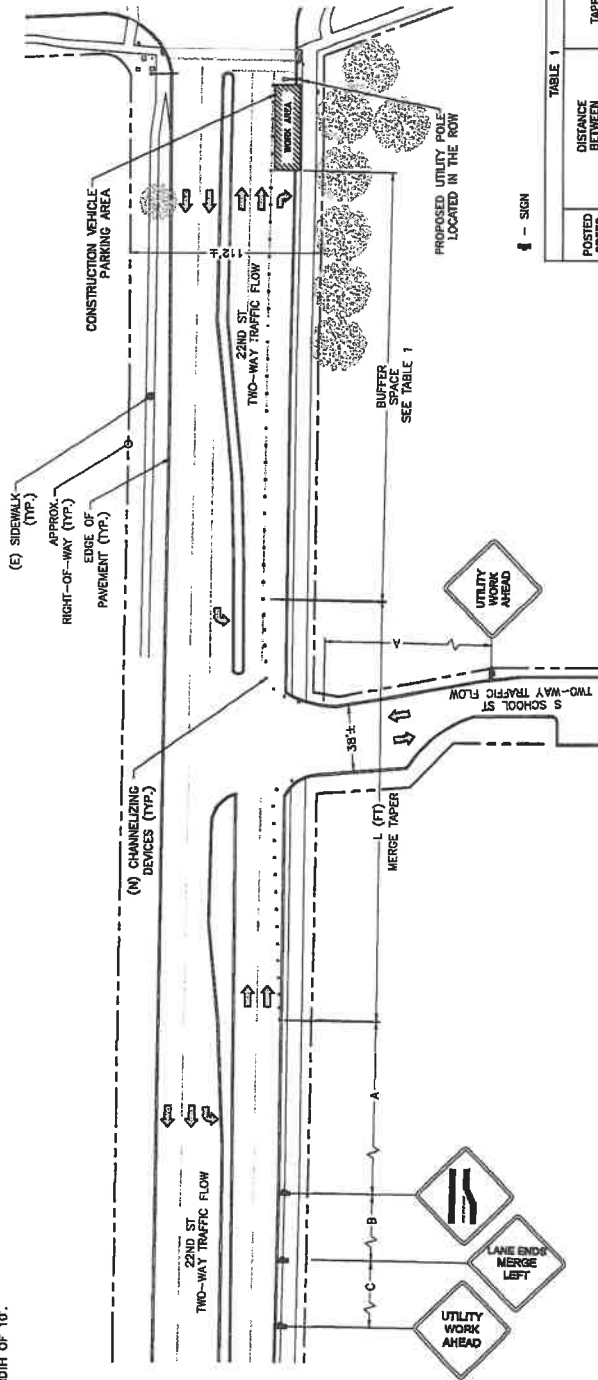


TABLE 1

| POSTED SPEED (MPH) | A    | B    | C    | L (SEE NOTE) | TAPER | BUFFER |
|--------------------|------|------|------|--------------|-------|--------|
| 15                 | 100' | 100' | 100' | 45'          | 100'  | 100'   |
| 20                 | 100' | 100' | 100' | 45'          | 100'  | 100'   |
| 25                 | 100' | 100' | 100' | 45'          | 100'  | 100'   |
| 30                 | 200' | 200' | 200' | 180'         | 200'  | 200'   |
| 35                 | 200' | 200' | 200' | 245'         | 250'  | 250'   |
| 40                 | 350' | 350' | 350' | 320'         | 305'  | 305'   |
| 45                 | 350' | 350' | 350' | 350'         | 540'  | 360'   |
| 50                 | 500' | 500' | 500' | 600'         | 600'  | 495'   |
| 55                 | 500' | 500' | 500' | 690'         | 690'  | 495'   |
| 60                 | 500' | 500' | 500' | 720'         | 720'  | 570'   |
| 65                 | 500' | 500' | 500' | 760'         | 760'  | 645'   |

NOTES:  
 A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.  
 B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.  
 C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.  
 D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.  
 E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH. SEE NOTE 1B, SHEET TC-2.

## VEHICULAR TRAFFIC CONTROL PLAN

SCALE: NOT TO SCALE

1

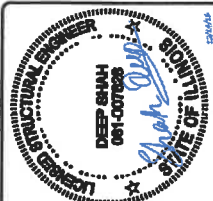
**mobilitie**  
 infrastructure

120 S RIVERSIDE PLAZA,  
 SUITE 1000  
 CHICAGO, IL 60606  
 PHONE (312) 638-5400

PROJECT NO: ES660291  
 DRAWN BY: F. ARDOR  
 CHECKED BY: M. KATONEN

PRELIM - NOT FOR CONSTRUCTION

|   |          |                               |
|---|----------|-------------------------------|
| A | 12/14/15 | PRELIM - NOT FOR CONSTRUCTION |
|---|----------|-------------------------------|

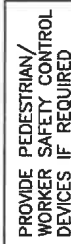


IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS THEY ARE AN ENGINEER OR ARCHITECT TO PREPARE OR SIGN THIS DOCUMENT.

CH8025792D  
 911001128D  
 S METERS RD  
 LOMBARD, IL 60148  
 LIGHT POLE

SHEET TITLE  
 VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER  
 TC-1





# ELECTRICAL NOTES CONT'D.

13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO THE START OF THE NEXT PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
14. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUITBARS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
15. DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND OR EQUIPMENT INSTALLATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS EXCAVATION, AND BACKFILLING.
16. MATERIALS, PRODUCTS AND EQUIPMENT INCLUDING ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.S. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ALL/ELECTRICAL ITEMS TO BE INSTALLED PRIOR TO INSTALLATION. APPROVAL BY THE MOBILITE CM PRIOR TO INSTALLATION.
18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST FOR WORK AND PERFORMANCE TO THE SATISFACTION OF THE MOBILITE CM UPON FINAL ACCEPTANCE.
19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
20. DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND AND SHALL BE MADE IN ACCORDANCE WITH THE ELECTRICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 - 1000. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. BENDS SHALL BE MADE WITH 90 DEGREE BENDS. CONDUIT SHALL BE GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH "BRITE ZINC" OR "COLD GALV."
23. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
24. CONDUITORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE 100 INSULATION, UNLESS OTHERWISE NOTED. 600 VOLT, COLOR CODED, USE 100% INSULATED COPPER WIRE. ALL CONDUITS INCLUDING NO. 8 AWG. USE STRANDED CONDUITS FOR WIRE ABOVE NO. 8 AWG.
25. CONNECTIONS FOR POWER CONDUITORS: CONTRACTOR SHALL USE PRESSURE TIGHT INSULATED COPPER TERMINALS. ALL TERMINALS SHALL BE USED WITH SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
26. SERVICES: AS SPECIFIED ON THE DRAWINGS, OWNER OR OWNER'S AGENT WILL BE RESPONSIBLE FOR THE PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
27. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
28. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 30", UNLESS OTHERWISE NOTED.
29. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELCO".
30. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL.

## GROUNDING NOTES:

1. ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" INCH DIAMETER OR LARGER.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.
5. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
6. GROUND ALL ANTENNA BASES, FRAMES, CABLE RINGS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.
7. ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE COPPER WITH THIN, UNLESS OTHERWISE NOTED. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
8. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. 10 OHMS MAXIMUM PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE MOBILITE CM.
9. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/6" BELOW FROST LINE, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.
11. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE. WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
12. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
  - A. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER.
  - B. COLDWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
  - C. ONE (1) HOLE THINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.
13. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.
14. ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS).
15. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250.118. GROUNDING RODS AND GROUNDING ELECTRODES: NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.

## TESTING AND EQUIPMENT TURN-UP REQUIREMENTS:

1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS TO THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
2. CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN THE FIELD. CONTRACTOR SHALL PROVIDE THE APPROPRIATE EQUIPMENT FOR THOSE STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.
4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT SHALL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.
5. ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.
6. GPS EQUIPMENT (WHEN REQUIRED) IS NOT TO BE TESTED OR ATTACHED TO ANY CABLE DURING TESTING, DOING SO WILL DAMAGE THE GPS UNIT.
7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.
8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT.

## SITE WORK NOTES:

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
3. ALL (E) UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL (E) 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 (E) UTILITIES.
4. CONTRACTOR SHALL VERIFY ALL (E) UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR VARIATIONS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER. NO 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 THEIR OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL LOCAL UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. ALL NEW AND (E) UTILITY STRUCTURES ON SITE AND IN AREAS TO BE CONSTRUCTED SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO FINAL INSPECTION OF WORK. ANY COST RELATED TO ADJUSTING (E) STRUCTURES SHALL BE BORNE SOLELY BY THE CONTRACTOR.
6. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO (E) GRADES AT THE GRADING UNITS.
7. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS UTILITIES, SHALL BE PROPERLY SHORED OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

