
REVOCABLE LICENSE AGREEMENT

("Agreement")
BY AND BETWEEN

Board of Education of the City of Chicago, as Licensor

AND

T-Mobile Central LLC, a Delaware limited liability company, as Licensee

PROPERTY ADDRESS:

Clay Elementary School
13231 S. Burley Avenue
Chicago, Illinois 60633

T-Mobile CH72286B - 112817-CPS Henry Clay

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**ARTICLE I
Defined Terms**

1.1 Licensor
Board of Education of the City of Chicago

1.2 Licensor's Address for Notices

Board of Education of the City of Chicago
Real Estate Department
42 West Madison Street, 3rd Floor
Chicago, Illinois 60602
Attention: Director of Real Estate
Telephone: (773) 553-2950
Fax: (773) 553-2951

with a copy to:

Board of Education of the City of Chicago
One North Dearborn, 9th Floor
Chicago, Illinois 60602
Attention: General Counsel
Telephone: (773) 553-1700
Fax: (773) 553-1701

1.3 Name & Address for Payment

Board of Education of the City of Chicago
One North Dearborn, 2nd Floor
Chicago, Illinois 60602
Attention: Finance

1.4 Licensee

T-Mobile Central LLC
12920 SE 38th Street
Bellevue, Washington 98006
Attention: Lease Compliance
T-Mobile Site ID: – CH72286B - 112817

1.5 Licensee's Address for Notices

T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, Washington 98006
Attention: Lease Compliance
T-Mobile Site ID: CH72286B - 112817

1.6 Building Address

Clay Elementary School
13231 S. Burley Avenue
Chicago, Illinois 60633
(the "Land")

1.7 Commencement Date

September 1, 2024

1.8 Initial Term

Five (5) years

1.9 Renewal Terms

Three (3) Five (5) year Renewal Terms as described in Section 2.

1.10 Initial License Fee

\$ 60,000

1.11 License

The non-exclusive right to install ("License") , for the transmission and reception of communications signals, no more than nine (9) antennas and one E911 antenna ("Antennas") in three (3) sectors on the Smokestack of the Building ("Roof"), and on the roof level, an equipment platform with dimensions no greater than ten (10) feet by twenty (20) feet ("Platform"), on which Licensee may install its equipment cabinets ("Equipment Cabinets"), together with support beams for the Platform, as structurally necessary, and cable runs ("Cable Runs") running among the Platform, the Antennas, and the utilities, which Cable Runs shall be affixed to the nearest contiguous structure, all as depicted in the construction drawings, which construction drawings ("Drawings") have been signed and certified by a professional licensed to practice architecture or engineering in the State of Illinois ("Professional"), a site plan of which Drawings are attached as Exhibit "A", and no other rights or purposes whatsoever. The Antennas, Equipment Cabinets, Platform and Cable Runs shall be collectively referred to as "Licensee's Equipment."

ARTICLE 2

Term

2.1 Initial Term. Licensor hereby continues to license to Licensee and Licensee hereby continues to license from Licensor, upon and subject to the terms, covenants, and conditions of this Agreement during the Initial Term the non-exclusive right to maintain the Antennas installed on the Smokestack, the Equipment Platform, the Cable Runs and the Equipment Cabinets (collectively, "Licensee's Equipment") in accordance with the provisions of this Agreement.

2.2 Renewal Terms. THE INITIAL TERM OF THIS AGREEMENT SHALL BE AUTOMATICALLY RENEWABLE FOR THREE (3) ADDITIONAL TERMS OF FIVE (5) YEARS EACH (THE "RENEWAL TERMS") AT THE LICENSE FEE STATED IN EXHIBIT "B" AND OTHERWISE UPON THE SAME TERMS AND CONDITIONS STATED IN THIS AGREEMENT. IF LICENSEE DOES NOT DESIRE TO RENEW ANY TERM OF THIS AGREEMENT, LICENSEE SHALL DELIVER WRITTEN NOTICE TO LICENSOR AT LEAST ONE HUNDRED AND TWENTY (120) DAYS PRIOR TO THE EXPIRATION OF THE THEN CURRENT TERM, WHEREUPON THE AGREEMENT SHALL EXPIRE UPON THE EXPIRATION OF THE THEN CURRENT TERM.

ARTICLE 3 Payments

3.1 Payment. Licensee shall pay the License Fee to Licensor promptly when due, without notice or demand therefore, and without any abatement, deduction, or setoff for any reason whatsoever except as specifically provided herein.

3.2 First License and Administrative Payment. On or before the Commencement Date, Licensee shall pay Licensor the License payment for the first twelve (12) full calendar months of the Term and an administrative payment in the amount of Seven Thousand Five Hundred Dollars (\$7,500.00), which payments shall be sent to the Licensor (See Section 1.3). The parties acknowledge that this Agreement reflects the continuation of the placement of Licensee's Equipment on the Building and any payments made in excess of the amounts due under the Prior Agreement, as defined in Section 5.2 below, shall be applied as a credit to the amounts due as reflected in Exhibit B to this Agreement

3.3 Subsequent Annual License Payments. Licensee shall pay the License payment in advance in annual installments on the anniversary of the Commencement Date of each year during the Term and, if applicable, during the Renewal Terms, at the amounts set forth on Exhibit "B".

3.4 Location for Payment. The License payment shall be paid to the entity at the Address for Payment (as set forth in Section 1.3), by electronic funds transfer and shall be identified by school name. Licensor may from time to time designate in writing to Licensee another entity or means of payment and shall do so at least forty-five (45) days in advance of a payment date.

ARTICLE 4 Use

4.1 Permitted Use. Licensee shall use the License for lawful telecommunications purposes in accordance with all applicable federal, state, and local rules and regulations including, but not limited to, FCC regulation ANSI/IEEE Guideline C95.1-1991 (or any successor provision thereto) and for no other purpose whatsoever.

4.2 No Violations. Licensee shall not, at any time, use or occupy, or suffer or permit anyone to use or occupy, the Building, or do or permit anything to be done in the Building, in any manner that may (a) cause, or be liable to cause, injury to the Land, the Building or any equipment, facilities or systems therein; (b) constitute a violation of the laws, codes and requirements of any public authority, including, but not limited to, the health and safety guidelines with respect to radio frequency emissions, or the requirements of any applicable insurance bodies (collectively, "Laws"); or c) materially interfere with the use and enjoyment of the Building by other occupants or users of the Building, as determined by Licensor in Licensor's reasonable judgment. In addition, Licensee shall comply with the requirements of all applicable state, county, and municipal codes, including, but not limited to, Section 13-96-840 of the City of Chicago Municipal Code with respect to the obligation to cause a professional examination of the exposed metal structural erected by Licensee and corresponding reporting and payment requirements to the Chicago Building Commissioner.

ARTICLE 5 Condition

5.1 Condition. Licensee hereby acknowledges that Licensee is familiar with the condition of the Building, the Smokestack, the Roof and the parapet walls, and that Licensor is making no repairs, replacements, or improvements of any kind to same in connection with, or in consideration of, this Agreement, and that Licensee is accepting same in an "as-is"

condition. Licensor has no obligation to repair, maintain or replace the any of the foregoing or any part thereof and Licensor makes no representation that any of the foregoing are adequate or appropriate for Licensee's intended use of same.

5.2 Installations. Pursuant to that certain Revocable License Agreement, dated September 16, 2008 ("Prior Agreement"), executed by and between Licensor and Licensee, as amended, Licensee installed Licensee's Equipment in the locations described in Exhibit "A". Licensee hereby represents that Licensee's Equipment was installed in compliance with the Prior Agreement and the Laws (the "Initial Installation"). Licensee may from time to time replace Licensee's Equipment with new items with the same specifications as the original Licensee's Equipment (the "Replacement Installation"), provided that Drawings identifying the new equipment and locations are submitted to Licensor for review and approval at least forty-five (45) days prior to installation, and such Replacement Installation is otherwise in compliance with this Agreement and applicable Laws. In the event the Replacement Installation involves modifying or replacing radio frequency emission producing equipment, Licensee shall submit an updated radio frequency emissions study to Licensor to evidence the anticipated total radio frequency emission output. Any installation not completed within one hundred and eighty (180) days after the Commencement Date shall be deemed a Replacement Installation. Licensor shall not unreasonably withhold, delay, or condition such approval. Within thirty (30) days after request therefor, Licensee shall pay to Licensor a fee that is the greater of: (a) all actual costs, fees (including those of outside consultants, architects, engineers and lawyers) and expenses, including, but not limited to, labor and materials, incurred by Licensor in connection with Licensor's withholding or granting of its approval of the list of Licensee's Equipment and any Replacement Installation; and (b) Five Thousand Dollars (\$5,000.00). Licensee's failure to timely pay such amounts shall constitute a default pursuant to the terms of this Agreement. Licensor's approval of Licensee's Equipment and inspections of Licensee's Installations (whether Initial or any Replacement Installation) shall not release Licensee from any of Licensee's liabilities and responsibilities with respect to same. Within thirty (30) days after the completion of any Installation, Licensee shall deliver "As-Built Drawings" of the areas in which Licensee's Equipment has been installed, certified, and sealed by a Professional, to Licensor. In the event the "As-Built Drawings" differ in any respect from the Drawings previously submitted to and approved by Licensor, Licensee shall remedy such differences to the satisfaction of Licensor. Licensee's failure to timely submit the "As-Built Drawings" or to remedy any differences shall constitute a default pursuant to the terms of this Agreement. Routine maintenance and repairs shall not be deemed a "Replacement Installation." Provided that Licensee is not in default, Licensee's Equipment shall remain the exclusive property of Licensee and shall not be considered fixtures. Licensee, at its expense, shall use any and all reasonable means, subject to Licensor's review and direction, to control, secure or restrict access to Licensee's Equipment.

5.3 Electric Service. Licensee has caused its electric service to be connected directly to the electric utility. Licensee shall pay all utility charges on a timely basis.

5.4 Ingress and Egress. Neither Licensee, nor any of Licensee's agents, representatives, or employees ("Licensee's Workers") may enter upon the Land for any purpose without the prior written consent of: (a) the school principal or the principal's designee; and (b) a representative of the Licensor's Real Estate Department (hereinafter, the "Representatives"). Upon receipt of prior written approval of such Representatives, Licensee's Workers may enter the Land only between the hours of 6:00 a.m. and 2:00 p.m. ("Working Hours"). In the event that Licensee requires access to the Land for emergency purposes during hours other than Working Hours, Licensee shall either arrange to do so ahead of time, and obtain appropriate written consents of the Representatives or contact the Chicago Public Schools Safety and Security (773-553-3335) to obtain the name and after Working Hours telephone number of the custodian of the school, which custodian will serve as an escort for access to the Land. In either event, any access to the Land during other than Working Hours requires the presence of a custodian of the school, the charge for which services is currently One Hundred Dollars (\$100.00) per hour, and which, at all times throughout the Term and the Renewal Terms, if any, shall be paid by Licensee. Licensor may, from time to time, in Licensor's sole discretion, increase the charge for escort services and Licensee shall pay such increased amount within thirty (30) days after receipt of an invoice therefor.

5.5 Term Inspections. Within ninety (90) days after the anniversary date of each Renewal Term, Licensee shall commission and pay for a field inspection by a Professional. After the completion of the field inspection, the Professional shall deliver to the Licensor a report, signed and sealed by the Professional, certifying to Licensor the condition of the Installation and the elements of the Building that structurally support the Installation (collectively, "Structural Elements"). In the event the Installation or the Structural Elements are not certified to be in good condition, Licensee shall remedy such defect or condition attributable to Licensee's equipment, inactions, or actions at the Property (collectively "Defect") within sixty (60) days after the delivery of the Report, unless such Defect is reasonably determined by Licensor to constitute an emergency situation, in which event such Defect shall be remedied immediately. Notwithstanding the preceding, if the Professional issues a written opinion ("Cause Opinion") that any Defect of the Structural Elements was caused by Licensor, ordinary wear and tear, wind, storms, fire or other casualty, and Licensee and/or its Installation did not contribute in any significant measure to the Defect (collectively, "Licensor or Natural Defect"), Licensor shall, within sixty (60) days after receipt of the Cause Opinion deliver written notice to Licensee ("Election Notice"), which Election Notice shall contain an

election to perform one (1) of the following options: (1) Licensor shall engage a Professional to issue an opinion as to the cause of the Defect; (2) Licensor shall repair the Defect; or (3) Licensor shall elect not to repair the Defect. In the event Licensor elects option (3), Licensee may elect to terminate this Agreement in accordance with the provisions of Section 10.1, by delivering written notice to Licensor within sixty (60) days after receipt of the Election Notice. In the event the Professionals engaged by Licensor and Licensee cannot reach agreement as to the cause of the Defect, the Professionals shall together choose a third Professional whose fee shall be shared equally by Licensor and Licensee, and whose determination ("Final Opinion") shall be binding on both Licensor and Licensee. In the event the Final Opinion or a Cause Opinion indicates that the Defect is not a Licensor Defect, Licensee shall remedy such Defect within sixty (60) days after delivery of same to Licensee. In the event the Final Opinion, or an undisputed Cause Opinion indicate the Defect is a Licensor Defect, and Licensor does not deliver written notice within sixty (60) days after delivery of same affirming its agreement to remedy such Defect, Licensee shall have the option to terminate this Agreement in accordance with the provisions of Section 10.1, by delivering written notice to Licensor within sixty (60) days thereafter.

5.6 Drug and Alcohol Testing. Licensee shall comply with the requirements of the Illinois Drug-Free Workplace Act, 30 ILCS 580/3. Licensee shall maintain a written policy regarding drug and/or alcohol testing of employees and shall implement such policy at any time that Licensee, or any of Licensee's Workers, form a reasonable suspicion that such testing may have a positive result. The said policy shall also require the testing of all of Licensee's Workers directly or indirectly involved in any incident or accident in which a physical injury has occurred, as soon as practicable after the incident or accident. Licensee shall require a similar written policy in each subcontract. If the results of any such test are positive, Licensee shall, as soon as possible, contact Licensor's Risk Management personnel at 773-553-2828 concerning the results. The Licensor reserves the right to require the removal from the site, either temporarily or permanently, of any person receiving positive results from any of the aforesaid tests.

5.7 Background Checks. Under the provisions of the Illinois School Code, 105 ILCS 5/10-21.9, Licensee shall conduct a fingerprint-based criminal background investigation and a Statewide Sex Offender Database check of all of Licensee's workers who may have direct, daily contact with the pupils in any school. Licensee shall not assign to the work at any school any employee convicted of the offenses listed in the Illinois School Code or those for whom a fingerprint-based criminal background investigation or Statewide Sex Offender Database check has not been initiated. Upon receipt of the record of conviction, Licensee shall immediately remove any person so assigned from the work at the school. In addition, Licensee shall require all persons who may have direct weekly contact with pupils in any school to show evidence that they are free from communicable disease, including tuberculosis. Acceptable evidence is described in the Illinois School Code, 105 ILCS 5/24-5. From time to time, the Licensor may require Licensee to demonstrate its compliance with the provisions of this Section.

ARTICLE 6

Taxes, Indemnification, and Insurance

6.1 Taxes. Licensee shall be solely responsible for and shall timely pay all license, leasehold and personal property taxes levied and assessed against it or its personal property. If for any reason taxes are assessed against the Building or the Land due to Licensee's occupancy at the Building, Licensee shall reimburse Licensor for the full amount of such taxes within thirty (30) days after written request therefore.

6.2 Indemnification. Licensee hereby agrees to indemnify, defend, protect and hold Licensor harmless from and against any claim of liability or loss from personal injury or property damage in connection with the License, any violation of any provision of this Agreement, or resulting from or arising out of the use and occupancy of the Land by the Licensee, its agents, employees and invitees, excepting, however, such claims or damages as may be due to or caused by the acts or omissions of the Licensor, its agents, employees or invitees.

6.3 Insurance.

A. Licensee Activities. Licensee shall not violate, or permit the violation of, any condition imposed by any insurance policy issued in respect of the Building and shall not do, or permit anything to be done, or keep or permit anything to be kept on the Land, which would: (a) subject Licensor to any liability or responsibility for personal injury or death or property damage; (b) which would increase any insurance rate in respect of the Building or the property therein over the rate which would otherwise then be in effect; (c) which would result in insurance companies of good standing refusing to insure or self-insure the Building or the property therein, in amounts reasonably satisfactory to Licensor; and (d) which would result in the cancellation of or the assertion of any defense by the insurer, in whole or in part, to claims under any policy of insurance or self-insurance with respect to the Building or the property therein.

B. Increased Premiums. If, by reason of any failure of Licensee to comply with any provisions of this Agreement, the premiums on Licensor's insurance or self-insurance on the Land, Building and/or property therein shall be higher than they otherwise would be, Licensee shall reimburse Licensor, for that part of such premiums attributable to Licensee.

C. Waiver of Right of Recovery. Neither Licensor nor Licensee shall be liable to the other or to any insurance company (by way of subrogation or otherwise) insuring the other party for any loss or damage to the Building, and structure or other tangible property located on or in the Building, or any resulting loss of income, or losses under workers' compensation laws and benefits despite the fact that such loss or damage might have been occasioned by the negligence of such party, its agents or employees, provided that any such loss or damage is covered by insurance or self-insurance benefitting the party suffering such loss or damage or was required to be covered by insurance or self-insurance pursuant to this Agreement. Licensor and Licensee shall secure an appropriate clause in, or an endorsement upon, each insurance policy obtained by it and covering or applicable to the Premises and the personal property and fixtures located in or on the Building pursuant to which the insurance company consents to such waiver of right of recovery. The waiver of right of recovery set forth above in this Section 6.3 C shall extend to Licensor, Licensee, and their respective agents and employees, and other parties designated by Licensor (collectively, "Licensor's Parties").

D. Insurance to be Maintained by Licensee. Licensee shall, at its sole cost and expense, at all times during the Term (and any extensions thereof) carry, pay for and maintain in effect the following insurance policy or policies:

(i) **"All-Risk" Property Coverage.** "All Risk" property insurance on a replacement cost basis, covering all of the Licensee's Property (as defined in Section 10.1) and all improvements installed in or on the Building by, or on behalf of, Licensee in an amount not less than ninety percent (90%) of the full replacement cost of all such property

(ii) **Liability Coverage.** Commercial general liability and commercial-automobile liability and, if necessary to comply with any conditions of this Agreement, umbrella liability insurance covering Licensee against any claims arising out of liability for bodily injury and death and personal injury and advertising injury and property damage occurring in and about the Building and otherwise resulting from any acts and operations of Licensee, its agents and employees, with limits of not less than total limits of \$5,000,000 per occurrence and \$5,000,000 annual general aggregate, per location. Coverage shall include the following: (a) all premises and operations; (b) products/completed operations (for a period of two (2) years following completion); (c) separation of insureds; and (d) defense and contractual liability. Such insurance shall include, inter alia: (i) "occurrence" rather than "claims made" policy forms unless such "occurrence" policy forms are not available; (ii) any and all liability assumed by the Licensee under the terms of this Agreement or otherwise, to the extent such insurance is available; (iii) medical-operations expenses in an amount not less than \$5,000.00 per person, per accident; (iv) the Licensor and any other parties designated by Licensor shall be included as additional insureds; and (v) severability of insured parties and cross-liability so that the protection of such insurance shall be afforded to the Licensor in the same manner as if separate policies had been issued to each of the insured parties. Licensor and any other parties designated by Licensor in writing shall be included as additional insureds. Licensee shall ensure that all of Licensee's subcontractors independently carry insurance appropriate to cover the subcontractors' exposures and that meet or exceed the required insurance coverage set forth in this Agreement. Licensee is responsible for monitoring its subcontractors' proof of insurance to ensure compliance with the foregoing obligations. Copies of certificates of insurance shall be maintained by Licensee and shall be supplied to Licensor upon request.

(iii) **Workers' Compensation Coverage.** Workers' compensation with limits as required by law and employer's liability insurance with limits of \$1,000,000.00 per accident, per disease policy limit, per disease per employee.

(iv) **Certificate Monitoring.** Licensee must register with the insurance certificate monitoring company designated by the Licensor stated below, and must maintain a current insurance certificate on file during the entire term of this Agreement. Licensee must register and pay the initial annual monitoring fee to the insurance certificate monitoring company prior to performance under this Agreement. The initial annual fee is currently twelve dollars (\$12.00) per year and is subject to change. Each year, Licensee will be notified 30 to 45 days prior to the expiration date of its required insurance coverage (highlighted on its latest submitted insurance certificate on file) that it must submit an updated insurance certificate with the insurance certificate monitoring company. Insurance certificate submissions and related annual fees required to be made online at the dedicated website

established by the insurance certificate monitoring company identified below. Any questions on submissions and payment options should be directed to the insurance certificate monitoring company: Topiary Communications, Inc., 211 W. Wacker Drive, Suite 220, Chicago, Illinois 60601; Telephone 312-494-5709; email: dans@topiarycomm.net; website for online registration, insurance and certificate submissions and annual fee payments: URL: <http://www.cpsvendorcert.com>.

(v) **Other Requirements.** All insurance policies required under this Article shall: (i) be issued by companies eligible to do business in the State of Illinois and acceptable to Licensor and with an A-VII or better rating per A.M. Best; (ii) not be subject to cancellation without at least thirty (30) days' prior written notice to Licensor and any other parties designated by Licensor (A) to be included as additional insured(s) under the insurance policies required from Licensee (except Workers' compensation, employers liability or property insurance policies), or (B) to receive such notices; (3) at the sole option and discretion of the Licensor, include other appropriate endorsements or extensions of coverage as would be required of the Licensor by any other party having an interest in the Building. Upon receipt of notice from its insurers, Licensee shall provide the Licensor with written notice of any policy non-renewal or material change in coverage within ten (10) business days of Licensee's receipt of such notice. Licensee shall not commence any work at the Property until Licensor has been provided with insurance certificates evidencing that the contractors and subcontractors performing such work have in effect adequate insurance as required by Licensor's construction program at the time of the work. Required coverage may include, but is not limited to: worker's compensation, general liability, professional liability, automobile liability, environmental liability, excess liability, property, and builders' risk insurance. If Licensee fails to register and maintain policies or certificates as required, or otherwise fails to obtain and maintain insurance coverages in accordance with this Article then Licensor, at Licensor's sole option, may, but shall not be obligated to, procure such insurance on behalf of, and at the expense of, the Licensee, and if Licensor exercises such right and expends any funds to obtain such insurance, Licensee shall reimburse Licensor for such amounts upon demand. Such a failure shall constitute default hereunder, and such default shall not be cured by Licensor's election to procure insurance on Licensee's behalf.

ARTICLE 7 Representations

Licensor and Licensee represent to the other that each has full authority to execute and deliver and to perform their respective obligations pursuant to the terms of this Agreement.

ARTICLE 8 Assignment

Licensee shall not sublease, assign, transfer or convey any of Licensee's interests in this Agreement (collectively, "Transfer") without the prior written consent of Licensor, which consent shall not be unreasonably withheld or delayed. In the event Licensor consents to any such Transfer, such consent shall release Licensee from Licensee's obligations under this Agreement except with respect to those obligations that survive the expiration or termination of this Agreement. Notwithstanding the foregoing, upon delivery of sixty (60) days' advance written notice, together with all documentation that may then be required by Licensor in connection with the proposed Transfer, completed in a satisfactory manner to Licensor, Licensee may Transfer its interests in this Agreement to its parent company, any subsidiary or affiliate of its parent company, or to a successor-in-interest acquiring fifty one percent (51%) or more of its stock or assets ("Related Party"), provided such entity is authorized pursuant to an FCC license to operate Licensee's Equipment. In the event of any Transfer either to a Related Party or a third party, and such Related Party or any third party shall execute documentation evidencing agreement to be bound by the terms of this Agreement. Licensee shall pay all of Licensor's actual fees, costs, and expenses (including, but not limited to, fees of counsel) incurred by Licensor in connection with Licensor's review of Licensee's request for, or notice of, a Transfer.

ARTICLE 9 Default

9.1 By Licensee. The occurrence of any one or more of the following events shall constitute a default of this Agreement by Licensee: (a) if Licensee fails to pay any payment or any other charges required to be paid by Licensee within thirty (30) days after the date due under this License Agreement; or (b) if Licensee fails to promptly and fully perform any other covenant, condition or agreement contained in this Agreement and such failure continues for thirty (30) days after

written notice thereof from Licensor to Licensee; provided, however, that if the nature of any such default is such that the same cannot be cured within thirty (30) days, Licensee shall have such additional period of time as may be necessary to cure such default provided that it commences to cure said default within the thirty (30) day period and proceeds diligently thereafter to complete such cure, and provided further that such default is cured within sixty (60) days from the date of Licensor's notice to Licensee; or (c) if a writ of attachment or execution is levied on this Agreement, on any other agreement between Licensor and Licensee, or on any of Licensee's property that is not vacated or dismissed within forty-five (45) days from the issuance thereof; or (d) if Licensee makes a general assignment for the benefit of creditors, or provides for an arrangement, composition, extension or adjustment with its creditors; or (e) If Licensee files a voluntary petition for relief or if a petition against Licensee in a proceeding under the federal bankruptcy laws or other insolvency laws is filed and not withdrawn or dismissed within forty-five (45) days thereafter, or if under the provisions of any law providing for reorganization or winding up of corporations, any court of competent jurisdiction assumes jurisdiction, custody or control of Licensee or any substantial part of its property and such jurisdiction, custody or control remains in force unrelinquished, unstayed or unterminated for a period of forty-five (45) days; or (f) if, in any proceeding or action in which Licensee is a party, a trustee, or receiver, agent or custodian is appointed to take charge of Licensee's property (or has the authority to do so) for the purpose of enforcing a lien against Licensee's property. In the event of default under this Agreement by Licensee, Licensor shall be entitled to pursue any and all remedies against Licensee as shall then be provided by law. If Licensee fails to cure a default, in addition to any and all other remedies available to Licensor, Licensor may elect to cure such default, at Licensee's sole cost and expense, without notice in the event of an emergency and in any other case only if such default continues after the expiration of the thirty (30) days from the date Licensor gives Licensee notice of the default. In the event of default by Licensee, Licensor, in addition to all other rights and remedies at law or in equity, may terminate this Agreement upon delivery of written notice to Licensee and Licensee shall be required to remove Licensee's Property from the Building and Land within ninety (90) days thereafter. Within thirty (30) days after such termination, Licensee shall pay any and all costs and fees owed to Licensor pursuant to the terms of this Agreement and shall leave the Building and the Land in the condition required pursuant to Section 10.1 below.

9.2 By Licensor. In the event of a default by Licensor, Licensee shall not exercise any rights with respect to such default (a) until Licensee has given, by registered or certified mail, written notice of such default to Licensor and to any other party whose name and address shall previously have been furnished to Licensee, and (b) until a thirty (30)-day period for remedying such default shall have elapsed following the giving of such notice; provided, however, that said thirty (30)-day cure period may be extended in the event that the default cannot, by its nature, be cured within thirty (30) days and Licensor is diligently proceeding to cure said default.

9.3 Prevailing Party. Each party agrees to pay, on demand, all actual costs, and expenses, including reasonable attorneys' fees, which may be incurred by or imposed on the other, either by being the prevailing party in enforcing this Agreement or in any litigation which a party, without fault on its part, may be a party.

ARTICLE 10 Termination, Surrender and Holdover

10.1 Removal of Equipment. Upon the expiration of this Agreement, or within ninety (90) days after its earlier termination or cancellation for any reason (the "Removal Period"), Licensee shall, at its sole expense, remove from the Building all of Licensee's Equipment and any transmission lines, cables, other personal property or improvements [collectively, the "Licensee's Property"], and Licensee shall repair any damage to the Building or the Land resulting from any installation and/or removal of Licensee's Property in accordance with Licensor's standards for removal and restoration of the Building and Land, as determined by Licensor's architects and structural engineers. Prior to the expiration of the Removal Period, Licensee's Property shall not be deemed to be a fixture of the Building. Any other items of Licensee's Property that shall remain on the Land after the expiration of the Removal Period, may, at the option of Licensor, be deemed to have been abandoned, and in such case, such items may be retained by Licensor as its property or be disposed of by Licensor, without accountability, in such manner as Licensor shall determine, at Licensee's expense.

10.2 Termination by Licensor and Licensee. In addition to any other termination rights and remedies available to Licensor pursuant to the terms of this Agreement, if the Building is not used by Licensor as a school or ceases to be the property of **The City of Chicago In Trust for the Use of Schools** or the Public Building Commission, Licensor may terminate this Agreement at any time upon One Hundred and Eighty (180) days' prior written notice to Licensee. Notwithstanding the foregoing, in the event of casualty or deterioration of any portion of the Building that affects the License, Licensor may elect to terminate this Agreement, rather than rebuild or repair such portion of the Building, in which event Licensor shall provide sixty (60) days prior written notice to Licensee of such termination. Licensee may terminate this Agreement by providing twelve (12) months' prior written notice to Licensor, and paying an additional fee of one (1) year of the annual payment as a termination fee.

10.3 Holdover. If Licensee remains in possession after the expiration of the Term or after any earlier termination of this Agreement or of the Licensee's right to possession: (a) Licensee shall be deemed a Licensee at will; (b) Licensee shall pay one hundred and fifty percent (150%) of the annual license fee last prevailing hereunder and also shall pay all damages sustained by Licensor by reason of such remaining in possession after the expiration or termination of this Agreement; and c) there shall be no renewal or extension of this Agreement by operation of law. The provisions of this Article shall not constitute a waiver by Licensor of any re-entry rights of Licensor provided hereunder or by law.

ARTICLE 11 Miscellaneous

11.1 Notices. All notices, requests and other writings required under this Agreement shall be in writing and shall be deemed validly given upon the earlier of (i) actual receipt or (ii) the second business day after the date posted if sent by certified mail, return receipt requested, addressed to the other party with copies as set forth in the Licensor's Address and Licensee's Address (or any other address within the United States that the party to be notified may have designated to the sender by like notice).

11.2 Cooperation. Licensor agrees to cooperate with Licensee, at Licensee's sole cost and expense, in any efforts by Licensee to secure any governmental permits necessary to use the Premises as contemplated in this Agreement.

11.3 Agreement Construction. This Agreement shall be construed in accordance with the laws of the State of Illinois. In the event that any provisions of this Agreement are legally unenforceable, the other provisions shall remain in effect. All prior understandings and agreements between the parties are merged into this Agreement, and this Agreement may not be modified orally or in any manner other than by an agreement in writing signed by both parties. Presentation of this Agreement by Licensee to Licensor shall not constitute an offer unless the Agreement has been signed by Licensee, and this Agreement shall not be binding until executed by both Licensor and Licensee.

11.4 Successors. Subject to the provisions regarding assignment, this Agreement shall be binding upon, and inure to the benefit of, the successors-in-interest and permitted assigns of the parties.

11.5 Estoppel Certificates. During the Term of this Agreement, either party shall, upon thirty (30) days' prior written request by the other, deliver to the requesting party a statement in writing certifying that this Agreement is unmodified and in full force and effect (or if modified, in effect as modified and setting forth the modifications and the dates of the modifications), the dates to which the license payments have been paid, and stating whether or not, to the knowledge of the party delivering the certificate, the requesting party is in default in performance of any agreement contained in this Agreement and, if so, specifying each default and whether there are any counterclaims.

11.6 Non-Waiver. The waiver by Licensor or Licensee of any term, covenant or condition contained in this Agreement must be in writing and shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant or condition contained in this Agreement. The subsequent acceptance of any payment under this Agreement by Licensor shall not be deemed to be a waiver of any preceding default by Licensee of any term, covenant, or condition of this Agreement, other than the failure of the Licensee to pay the particular license payment so accepted, regardless of Licensor's knowledge of such preceding default at the time of the acceptance of such payment. Licensor's failure to insist upon the performance or the strict performance of any provision of this Agreement, or to exercise any election contained in this Agreement, shall not be construed as a waiver of such provision, or right to exercise such election.

11.7 Late Charges. If any installment of annual payment or any sum due from Licensee shall not be received by Licensor or Licensor's designee within thirty (30) days after said amount is due, Licensee shall pay to Licensor a late charge, equal to: (a) the lesser of one and one half percent (1½%) of such overdue amount on a monthly basis, or eighteen percent (18%) of such overdue amount on an annual basis; or (b) the maximum amount permitted by law, plus any reasonable attorneys' fees incurred by Licensor by reason of Licensee's failure to pay the annual license payment and/or other charges when due. The parties hereby agree that such late charges represent a fair and reasonable estimate of the costs that Licensor will incur by reason of the late payment by Licensee. Acceptance of such late charges by Licensor shall in no event constitute a waiver of Licensee's default with respect to such overdue amount, nor prevent Licensor from exercising any of the other rights and remedies granted under this Agreement or by law.

11.8 Recording. Licensee shall not record or file this Agreement or a memorandum of this Agreement, or any

part thereof, in the public records of any county or state.

11.9 Environmental. Licensee shall not conduct or authorize the generation, transportation, storage, treatment, disposal, use, consumption, or possession on, in or under the Land or the Building, of any Hazardous Substance, as hereafter defined, that is in violation of applicable environmental laws or regulations and the Licensee's failure to comply with the provisions of this Section 11.9 shall constitute a default under this Agreement. "Hazardous Substance" means any matter giving rise to liability under any and all laws, acts, regulations or ordinances (the "Environmental Laws"), including, but not limited to, the Resources Conservation Recovery Act ("RCRA"), 42 U.S.C. Section 6901 *et seq.*, the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 52 U.S.C. Sections 9601 *et seq.*, the Illinois Environmental Protection Act (IEPA), or under any common law theory of liability. If, any of Licensee's activities at the Land, whether or not such activities are in violation of this Section 11.9, result in the presence, release, threat of release, or placement on, in or under the Land or the Building, of any Hazardous Substance and such activities: (i) give rise to liability (including, but not limited to, a response action, remedial action, or removal action) under any Environmental Law or any common law theory of liability, (ii) cause an adverse public health effect, or (iii) pollute, or threaten to pollute, the environment, Licensee shall promptly take, at Licensee's sole cost and expense, any and all necessary remedial and removal actions and mitigate exposure to liability arising from the Hazardous Substance, whether or not required by law. Licensee shall not have any liability to Licensors for any Hazardous Materials that Licensee or Licensee's Representatives have not disturbed or brought onto the Property. Without limiting any other indemnifications or remedies granted to Licensors under this Agreement, Licensee, its officers, directors and assigns hereby protect, indemnify, defend, and forever hold the Licensors and its officers, directors, employees, representatives, agents and assigns harmless from and against, any and all claims, judgments, damages, penalties, fines, costs, expenses, liabilities or losses, contingent or otherwise, that any or all of the indemnified parties suffer or incur as a result of, or due to, any contamination of the Building, the Land or any other property not a part of the Land, but which contamination arises or occurs as a result of the presence, release, threat of release, or placement of Hazardous Substances in, on or under the Building, or the Land, the presence of which is caused or permitted by Licensee. The provisions of this Section 11.9 shall survive any termination of this Agreement and shall be co-extensive with the other indemnification and hold harmless rights of Licensors under this Agreement. Notwithstanding the foregoing, Licensee may use sealed batteries for emergency back-up, a fire suppression system and small quantities of cleaning products ordinarily used by commercial businesses by Licensee, Licensee's agents, employees, contractors, or invitees without Licensors's prior written consent.

11.10 Broadcast Interference. As used in this Agreement, "interference" with a broadcasting activity means: (a) interference within the meaning of the provisions of the recommended practices of the Electronics Industries Association (EIA) and the rules and regulations of the Federal Communications Commissions (FCC) then in effect, or (b) a material impairment of the quality of either sound or picture signals on a broadcasting activity as may be defined by the FCC at any hour during the period of operation of activity, as compared with that which would be obtained if no other broadcaster were broadcasting from the Building or had any equipment at the Building. Licensee shall take reasonable actions to prevent and properly remove any interference with broadcast activities of Licensors or other licensees of Licensors caused by Licensee's actions at the Building.

11.11 Non-Interference by Licensee. Licensee acknowledges that the primary function of the Building is to operate a school and that Licensee's License, is and shall at all times remain throughout the Term, ancillary to school operations. Licensee hereby agrees that Licensee shall conduct its operations in the Building in a manner that will not interfere with, interrupt, disturb or disrupt in any manner, the operation of the school.

11.12 Interference by Others. Licensee hereby acknowledges that Licensee's use of the parapet walls shall not be exclusive and that Licensors shall use the parapet for its own purposes, which purposes shall at all times remain paramount to Licensee's, as well as granting rights to others for the use of same. Licensors shall use reasonable good faith efforts to cause other communication carriers not to interfere with Licensee's Equipment, which efforts shall be limited to, after receiving written notice of same from Licensee, delivering written notice to such communication carrier of any interference. Licensors shall not knowingly license or lease the use of space to others that will interfere with Licensee's Equipment, provided, however, that Licensors shall be under no obligation to perform any tests or investigations in order to determine the likelihood of interference prior to entering into any Agreement with any others.

11.13 Relocation. Licensors may, at any time during the Term, change the location of the Licensee's Equipment on Exhibit "A" to another area (the "New Location"), provided that the New Location is oriented in the same direction and at the same height as the original location. Licensors shall use good faith reasonable efforts to provide Licensee with sixty (60) days' prior written notice of Licensors's exercise of its relocation right under this Section 11.13. Licensee shall cooperate with Licensors, in all reasonable respects so as to facilitate Licensee's relocation to the New Location. In addition to the foregoing, Licensors shall have the option of requiring Licensee, at Licensee's sole cost and expense, to temporarily relocate

Licensee's Equipment, if necessary, upon ninety (90) days' advance written notice, in the event that repairs or maintenance of the Building are scheduled to be performed. Licensor shall cooperate with Licensee to find a temporary alternative space to place temporary transmission and reception facilities on the Property, it being understood and agreed that the use of such alternative space shall be governed by all the terms and conditions of this Agreement, including, but not limited to, the obligation to pay the license payment.

11.14 Entry. Licensee hereby acknowledges that Licensee and any sublicensees or assignees ("Licensee's Parties") shall comply with the terms of 105 ILCS 5/34-18.5) and that Licensee's Parties shall screen all persons permitted by Licensee's Parties to enter the Building to ensure compliance with 105 ILCS 5/34-18.5c) and shall, at the request of Licensor, immediately remove from the Building and prohibit access by any such person not acceptable to Licensor.

11.15 Time. Time is of the essence of this Agreement.

11.16 Inspector General. Each party to this Agreement hereby acknowledges that, in accordance with 105 ILCS 5/34-13.1, the Inspector General of the Board of Education has the authority to conduct certain investigations and that the Inspector General shall have access to all information and personnel necessary to conduct those investigations.

11.17 Conflicts. This Agreement is not legally binding on the Licensor if entered into in violation of the provisions of 105 ILCS 5/34-21.3 which restricts the employment of, or the letting of contracts to, former Board Members during the one-year period following expiration or other termination of their terms of office.

11.18 Indebtedness Policy. The Board of Education Indebtedness Policy (96-0626-PO3) adopted June 26, 1996, as amended from time to time, is hereby incorporated into and made part of the Agreement as if fully set forth herein.

11.19 Ethics. No officer, agent, or employee of the Licensor is, or shall be, employed by the Licensor or has, or shall have, a financial interest, directly or indirectly, in this Agreement or the compensation to be paid hereunder, except as may be permitted in writing by the Licensor's Code of Ethics Policy, adopted August 24, 2023 (23-0824-PO2), as amended from time to time, which policy is hereby incorporated by reference into and made a part of this Agreement as if fully set forth herein.

**** THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK – SIGNATURE PAGE TO FOLLOW ****

IN WITNESS WHEREOF, Licensor and Licensee have executed this Agreement as of the latter of the dates written below.

LICENSOR

LICENSEE

BOARD OF EDUCATION OF THE CITY OF CHICAGO

T-Mobile Central LLC,
a Delaware limited liability company

DocuSigned by:
Jianan Shi DS DFH
By: _____
Jianan Shi, President

DocuSigned by:
Cheryl Downs
By: _____
Cheryl Downs

Attest: *Susan J. Narrajos*

Susan J. Narrajos, Secretary

Name: _____

Its: Sr. Director, Strategy & Planning

Date: January 12, 2024 | 4:14:03 PM CST

Date: 1/4/2024

DocuSigned by:
Pedro Martinez
By: _____
AA17786A4B2446C...
Pedro Martinez
Title: Chief Executive Officer



Approved as to Legal Form DS DFH
By: *Ruchi Verma* _____
56B562E0FFA44C9...
Ruchi Verma, General Counsel

Board Report No.: 15-0422-OP1- 182

EXHIBIT "A"

SPACE PLAN AND LOCATION OF INSTALLATIONS

DocuSign Envelope ID: D31AC4F5-6347-433E-9023-5366031A0D76



T-Mobile

ANCHOR PROJECT

T-MOBILE Site #
CH72286B

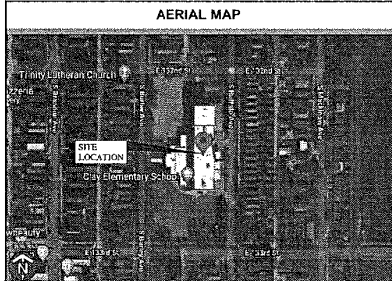
T-MOBILE Site Name
CPS HENRY CLAY

Site Address
**13231 S BURLEY AVE
CHICAGO, IL 60633**

SCOPE OF WORK

THE SCOPE OF WORK CONSISTS OF:

- REPLACEMENT OF (8) EXISTING ANTENNAS WITH (6) NEW ANTENNAS
- REMOVAL OF (9) EXISTING 1/4" SCS
- INSTALLATION OF (1) NEW AERIALS: SM INDOOR: ANA W (1) ASB (1) ABA (1) ASK AND (2) ASL AND (1) NEW AERIALS: SM INDOOR: ANA W (1) ASB (1) ASK AND (2) ASL AND (1) NEW AERIALS: SM INDOOR: ANA W (1) ASB (1) ASK AND (2) ASL
- INSTALLATION OF (3) NEW TOWERS: CMP/FIBER JUNCTION BOXES & (3) NEW HYBRID CABLE BREAKOUT BOXES
- INSTALLATION OF (3) NEW HYBRID TRUSS CABLES & NEW FIBER JUNCTIONS
- INSTALLATION OF (3) NEW AHD & (3) NEW AHD MODULES & NEW HF JUNCTIONS
- INSTALLATION OF CSR (RE V1 GEN1) INSIDE NEW HP LARDE & 3 SSC
- REMOVAL OF (2) EXISTING FRUIT, (2) EXISTING FPCBS & (2) EXISTING FRBS & (1) EXISTING FFB MODULES
- REMOVAL OF (1) EXISTING ESMB & (1) EXISTING FSMB MODULE W/ (1) FRBA & (1) FRBNC
- REMOVAL OF (1) EXISTING SSC, (1) EXISTING STEEL CURB, (1) EXISTING FRNTH & (1) EXISTING NODE B/POST
- INSTALLATION OF (1) EXISTING GPS ANTENNA & (1) EXISTING ALUMI BOX AND (1) EXISTING FSMB
- INSTALLATION OF (1) NEW HP LARDE SITE SUPPORT CABINET & (1) NEW BATTERY 3 CABINET
- REPLACEMENT OF EXISTING 100AMP SSC FEEDER BREAKER INSIDE PFC W/ 200 AMP BREAKER FOR NEW HP LARDE SSC 3 INSTALLATION
- PAINTING OF ALL NEW ANTENNAS AND EQUIPMENT TO MATCH THE EXISTING MASONRY
- INSTALLATION OF ANTENNA MOUNT ADAPTORS



DRIVING DIRECTIONS

DRIVING DIRECTIONS FROM LAUREL STREET TO THE SITE:

- HEAD EAST 31ST ST
- TURN RIGHT TOWARD DOWNHILL ON 440 FT
- TURN LEFT TOWARD DOWNHILL ON 440 FT
- TURN RIGHT ONTO FRONTAGE RD
- CONTINUE ONTO BUTTERFIELD
- TURN LEFT TO ST AT BUTTERFIELD
- TURN RIGHT AT THE RED CIRCLE STREET ONTO HIGHLAND AVE 0.1 MI
- USE THE LEFT LANE TO TURN LEFT ONTO THE INTERSTATE 54 E RAMP TO CHICAGO I-54
- MERGE ONTO I-54 E ON
- USE THE RIGHT 2 LANES TO TAKE THE INTERSTATE 54 WEST TOWARD CHICAGO I-54
- CONTINUE ONTO 84 W 4.0 MI
- TURN LEFT ONTO EAST 10TH STREET 0.2 MI
- MERGE ONTO E 10TH ST 1.1 MI
- CONTINUE ONTO S BURLAND AVE 0.7 MI
- TURN LEFT ONTO S BURLEY AVE 0.4 MI
- TURN LEFT ONTO S BURLEY AVE 355 FT

TOTAL TRAVEL ESTIMATE: 44.1 MILES, ABOUT 49 MINUTES

SHEET INDEX

NO.	SHEET DESCRIPTION
1.1	TITLE SHEET
1.2	COVER SHEET
1.3	ROOF PLAN
1.4	INSTALLATION DETAILS
1.5	INSTALLATION DETAILS
1.6	INSTALLATION DETAILS
1.7	INSTALLATION DETAILS
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1.100	INSTALLATION DETAILS

STATEMENT THAT COMPLIANCE WITH THE ENERGY IS NOT REQUIRED

I CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF, THE ATTACHED PLANS, SPECIFICATIONS AND CONDITIONS COMPLY WITH THE ENERGY CONSERVATION ACT, CHAPTER 15-1.5, ENERGY CONSERVATION OF THE STATE OF ILLINOIS, AND I AM NOT PROVIDING ANY SERVICES OR WORK UNDER THIS PROJECT THAT WOULD REQUIRE FEDERAL ENERGY EFFICIENCY STANDARDS.

DATE: 06/24/21
ILLINOIS LICENSE NUMBER: 0337

CITY OF CHICAGO SUMMARY

PERMITTED REQUIREMENTS:
FACILITY IS UNIMPAVED AND NOT FOR HUMAN HABITATION. MAKEUP ACCESS REQUIREMENTS NOT REQUIRED.

PLANNING REQUIREMENTS
FACILITY AND PLUMBING

REGISTRATION NOTE
NO REFRIGERANTS ARE USED FOR COOLING THE EQUIPMENT.

EXISTING STRUCTURAL CONDITION
EXISTING CONCRETE SHALL BE REPAIRED AS VERIFIED BY FIELD SURVEY. EXISTING STRUCTURE SHALL BE REINFORCED AS NECESSARY AT THE TIME OF CONSTRUCTION. A SEPARATE REPORT SHALL BE OBTAINED AND SUBMITTED TO THE ARCHITECTURAL ENGINEER IMMEDIATELY.

PROFESSIONAL LICENSURE

I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF THE GOVERNING LOCAL BUILDING CODE.

DATE: 06/24/21
ILLINOIS LICENSE NUMBER: 062491

PROJECT INFORMATION

ALL CONTRACTORS WORK SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE LOCATION, THE EDITION OF THE ADOPTED CODES AND REMAINS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODES: CHICAGO BUILDING CODE (CBC) 2019 EDITION
ELECTRICAL CODE: CHICAGO ELECTRICAL CODE (CEC) 2019 EDITION
MECHANICAL CODES: CHICAGO MECHANICAL CODE (CMC) 2019 EDITION

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) TIA-222-B STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES

TR-67 COMMERCIAL BUILDING GUIDELINES AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS INFRASTRUCTURE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 11. GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1998) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING ELECTRONIC EQUIPMENT

AN INQUIRY INTO THE STEEL CONSTRUCTION (ABC) MANUAL OF STEEL CONSTRUCTION AND PERFORM WITH STEEL BEE USE ALL RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS FROM LOCATION CATEGORY 'C' AND HIGH SYSTEM ENERGY

LIGHTNING PROTECTION CODE (NFPA 780) LIGHTNING PROTECTION CODE

TELECOMMUNICATIONS GENERAL INSTALLATION REQUIREMENTS

TELECOMMUNICATIONS GENERAL POWER SYSTEMS, TELECOM ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIALS, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST PROTECTIVE REQUIREMENT SHALL GOVERN UNLESS THERE IS A SPECIFIC REQUIREMENT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT. THE SPECIFIC REQUIREMENT SHALL GOVERN. EQUIPMENT AREAS UNIMPAVED AND NOT FOR HUMAN HABITATION. UNIMPAVED AREAS REQUIREMENTS AND PLUMBING FACILITIES ARE NOT REQUIRED.

PROFESSIONAL LICENSURE

I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF THE GOVERNING LOCAL BUILDING CODE.

DATE: 06/24/21
ILLINOIS LICENSE NUMBER: 062491

SITE INFORMATION:

LATITUDE: N 41° 39' 16.72" (NAD 83)
LONGITUDE: W 87° 32' 38.01" (NAD 83)

SITE TYPE: ROOFTOP

JURISDICTION: CITY OF CHICAGO

COUNTY: COOK

APPLICANT: T-MOBILE
1400 CPS HENRY CLAY
DOWNERS GROVE, IL 60015
PHONE: (773) 444-5400

ENGINEERING CONCORDIA WIRELESS, INC.
CONTACT: GEM BADAT, PE
PHONE: (847) 588-0841
FAX: (847) 588-0543

SITE: LOC TELECOM
ACQUISITION: CONYACT ERIC LAUSSEN
PHONE: (847) 630-1142

CONCORDIA WIRELESS, INC.
13231 S BURLEY AVE
CHICAGO, IL 60633
PHONE: (773) 444-5400

CONCORDIA WIRELESS, INC.
13231 S BURLEY AVE
CHICAGO, IL 60633
PHONE: (773) 444-5400

T-Mobile

T-MOBILE
1400 CPS PLACE
DOWNERS GROVE, IL 60015
PHONE: (773) 444-5400

LOC TELECOM SERVICES, LLC
10700 W. HODSON RD. SUITE 240
ROSEMONT, IL 60018
PHONE: (630) 261-0600

CONCORDIA
13231 S BURLEY AVE
CHICAGO, IL 60633
PHONE: (773) 444-5400

PROFESSIONAL ENGINEER LICENSE # 062491

NO.	REVISION	DATE	INITIAL
A	PICTS REVA	06/21/21	HECH
B	PICTS REVA	06/21/21	SK
C	PICTS	06/21/21	LS
D	PICTS REV 1	06/24/21	FE

CH72286B
CPS HENRY CLAY
13231 S. BURLEY AVE,
CHICAGO, IL 60633

TITLE SHEET

T-1

CITY OF CHICAGO DEPARTMENT OF CONSTRUCTION AND PERMITS								
GENERAL BUILDING REQUIREMENTS Per Chicago Zoning Ordinance(CZO) and Chicago Building Code (CBC) 2019 Edition								
ITEM	ISSUE	CHAPTER/ARTICLE	Ordinance Requirement	Actual	Requirements N/A	Location/Sheet No.	Agency/ Test No.	REMARKS
ZONING REQUIREMENTS								
1.01	zoning District	CHAPTER 17-1-0800	N/A	RS-3	N/A	N/A	N/A	
1.02	Lot Area	N/A	N/A	N/A	N/A	N/A	N/A	
1.03	Maximum Floor Area Ratio	N/A	N/A	N/A	N/A	N/A	N/A	
1.04	Total Building Area	N/A	N/A	N/A	N/A	N/A	N/A	
1.05	Building Height - No. of Floors	N/A	N/A	N/A	N/A	N/A	N/A	
1.06	Minimum Yards	N/A	N/A	N/A	N/A	N/A	N/A	
1.07	Grade Elevation (CGD)	N/A	N/A	N/A	N/A	N/A	N/A	
1.08	Off Street Loading	CHAPTER 17-10-1101	N/A	N/A	N/A	N/A	N/A	
1.09	Off Street Parking	CHAPTER 17-10-0207	N/A	N/A	N/A	N/A	N/A	
1.10	Landscaping	CHAPTER 17-1-0200	N/A	N/A	N/A	N/A	N/A	
BUILDING REQUIREMENTS								
2.01	Occupancy Classification (b)	3 (13-56) page 115	N/A	N/A	N/A	N/A	N/A	
2.02	Height and Area Limitations	5 (13-48) page 323	N/A	N/A	N/A	N/A	N/A	
	(d) Exceptions to Area Limitations	5(13-48-600)pg.325	N/A	N/A	N/A	N/A	N/A	
	(b) Mixed Occupancy Buildings	6(13-45-100)pg. 305	N/A	N/A	N/A	N/A	N/A	
2.03	Types of Construction	6 (13-60) page 329	N/A	N/A	N/A	N/A	N/A	
2.04	Mixed Occupancy Separations	3 (13-56-280)pg.115	N/A	N/A	N/A	N/A	N/A	
2.05	Floor Joints of Fire Resistance	6(13-60-100)pg. 330	N/A	N/A	N/A	N/A	N/A	
	Exterior Bearing Walls	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Exterior Nonbearing Walls	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Interior Bearing Walls	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Interior Nonbearing Walls	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Columns	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Columns Supporting Roofs Only	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Beams	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Beams Supporting Roofs Only	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Floor Construction	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
	Roof Construction	Table 6(13-60-100)	N/A	N/A	N/A	N/A	N/A	
2.06	Elevator Framing	6(13-60-130)pg. 331	N/A	N/A	N/A	N/A	N/A	
2.07	Mezzanine Floors	6(13-60-160)pg. 332	N/A	N/A	N/A	N/A	N/A	
2.08	Basement Construction	6(13-60-170)pg. 332	N/A	N/A	N/A	N/A	N/A	
2.09	Driveways and Loading Spaces	6(13-60-210)pg. 332	N/A	N/A	N/A	N/A	N/A	
2.10	Fire - Resistive Requirements	7(15-8) page 335	N/A	N/A	N/A	N/A	N/A	
	W/In Walls - Construction	7(15-8-010)page 335	N/A	N/A	N/A	N/A	N/A	
	Doors	7(15-8-100)pg.335,336	N/A	N/A	N/A	N/A	N/A	
	Stairway Enclosures	7(15-8-140)pg.337	N/A	N/A	N/A	N/A	N/A	
	Elevator Enclosures	7(15-8-160)pg. 337	N/A	N/A	N/A	N/A	N/A	
	Enclosures of Heating Rooms	7(15-8-190)pg. 338	N/A	N/A	N/A	N/A	N/A	
	Enclosures of Walks & Chutes	7(15-8-210)pg. 338	N/A	N/A	N/A	N/A	N/A	
	Other Enclosures	7(15-8-240)pg. 338	N/A	N/A	N/A	N/A	N/A	
	Interior Wall and Cg. Finishes	7(15-8-380)pg.341	N/A	N/A	N/A	N/A	N/A	
	Storage Rooms over 100sq ft	7(15-8-340)pg.339	N/A	N/A	N/A	N/A	N/A	
2.11	Fire - Resistive Materials and Construction	7(15-12)page 348	N/A	N/A	N/A	N/A	N/A	
2.12	Accepted Engineering Practice. Recognized Agencies	7(15-12450)	N/A	N/A	N/A	N/A	N/A	
2.13	Fire Protection Equipment	8(15-16) page 361	N/A	N/A	N/A	N/A	N/A	
	Fire Sprinkler Systems	8(15-16-010)pg.362	N/A	N/A	N/A	N/A	N/A	
	Special Requirements	8(15-16-030)pg.362	N/A	N/A	N/A	N/A	N/A	
EXIT REQUIREMENTS								
3.01	Types of Exits	10(13-160-040)pg. 368	N/A	N/A	N/A	N/A	N/A	
3.02	Minimum Number of Exits	10(13-160-020)pg. 368	N/A	N/A	N/A	N/A	N/A	
3.03	Travel Distance to Exits	10(13-160-110)pg. 369	N/A	N/A	N/A	N/A	N/A	
	Increases Permitted	10(13-160-150)pg. 369	N/A	N/A	N/A	N/A	N/A	
	Dead End Corridor	10(13-160-160)pg.369	N/A	N/A	N/A	N/A	N/A	
3.04	Capacity of Exits	10(13-160-210)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.05	Minimum Width of Exits	10(13-160-220)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.06	Swing of Exit Doors	10(13-160-250)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.07	Hardware	10(13-160-280)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.08	Revolving Doors	10(13-160-270)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.09	Landing	10(13-160-310)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.10	Handrails	10(13-160-320)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.11	Construction	10(13-160-330)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.12	Enclosures	10(13-160-340)pg. 369	N/A	N/A	N/A	N/A	N/A	
3.13	Head Room	10(13-160-350)pg. 369	N/A	N/A	N/A	N/A	N/A	

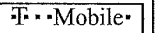

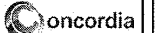


TABLE
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MARY (847) 698-6300



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GARY (815) 410-0800
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CHECKED BY: RH APPROVED BY: GAG

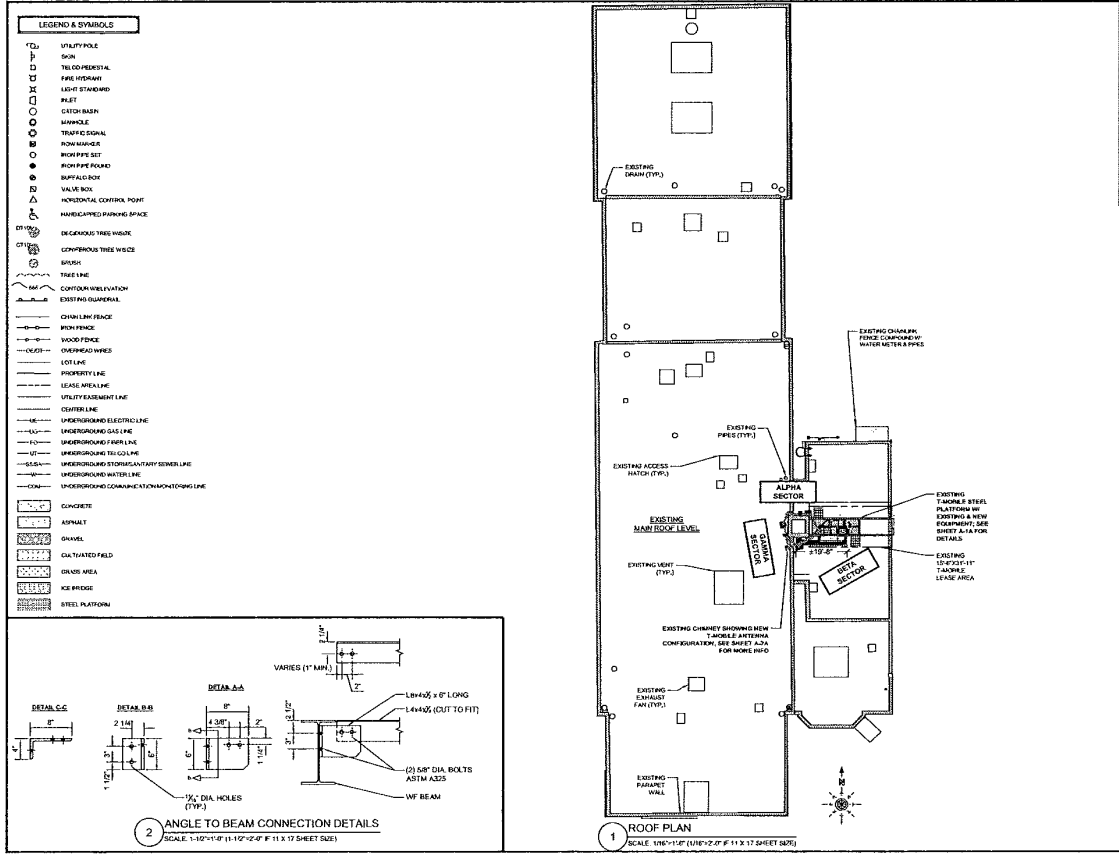


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13277 ST. CHARLES
CHICAGO, IL 60633

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CPS HENRY CLAY
13231 S. BURLEY AVE.
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CODE MATRIX SCHEDULE

T-2



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CHECKED BY: JHM APPROVED BY: GMS

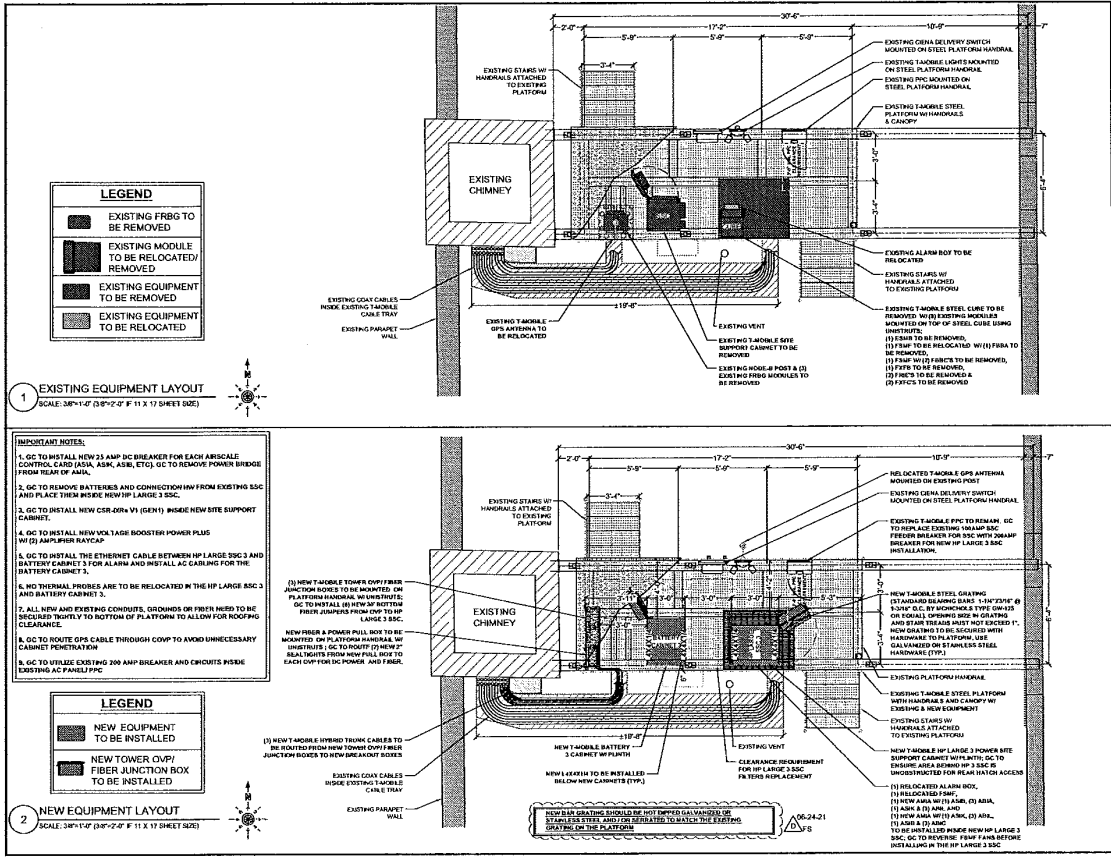
STATE OF ILLINOIS
FABIS R. PARRACCHINI
13377
ST. CHARLES
REGISTERED PROFESSIONAL ENGINEER

CH722868
CPS HENRY CLAY
13031 S. BURLY AVE.
CHICAGO, IL 60633

ROOF PLAN

A-1

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1 EXISTING EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" (3/8"=2'-0" F 11 X 17 SHEET SIZE)

- IMPORTANT NOTES:**
- GC TO INSTALL NEW 25 AMP DC BREAKER FOR EACH ARISCALC CONTROL CARD (ASA, ASB, ASC, ETC). GC TO REMOVE POWER BREAKER FROM REAR OF ASAL.
 - GC TO REMOVE BATTERIES AND CONNECTION HW FROM EXISTING SSC AND PLACE THEM INSIDE NEW HP LARGE 3 SSC.
 - GC TO INSTALL NEW CSR-001A V1 (GCH1) INSIDE NEW SITE SUPPORT CABINET.
 - GC TO INSTALL NEW VOLTAGE BOOSTER POWER PLUS W/ (3) JAMMER RACKS.
 - GC TO INSTALL THE ETHERNET CABLE BETWEEN HP LARGE 3 SC3 AND BATTERY CABINET 3 FOR ALARM AND INSTALL AC CABLING FOR THE BATTERY CABINET 3.
 - NO THERMAL PROTECT ARE TO BE RELOCATED IN THE HP LARGE 3 SC3 AND BATTERY CABINET 3.
 - ALL NEW AND EXISTING CONDUITS, CONDUITS OR FIBER NEEDS TO BE SECURED THOROUGHLY TO BOTTOM OF PLATFORM TO ALLOW FOR HOODING CLEARANCE.
 - GC TO ROUTE OPS CABLE THROUGH COMP TO AVOID UNNECESSARY CABINET PENETRATION.
 - GC TO UTILIZE EXISTING 200 AMP BREAKER AND CIRCUITS FOR THE EXISTING AC PANEL/PPC.

- LEGEND**
- NEW EQUIPMENT TO BE INSTALLED
 - NEW TOWER CVP/ FIBER JUNCTION BOX TO BE INSTALLED

2 NEW EQUIPMENT LAYOUT
SCALE: 3/8"=1'-0" (3/8"=2'-0" F 11 X 17 SHEET SIZE)

T-Mobile

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CHECKED BY: TOI APPROVED BY: GMS

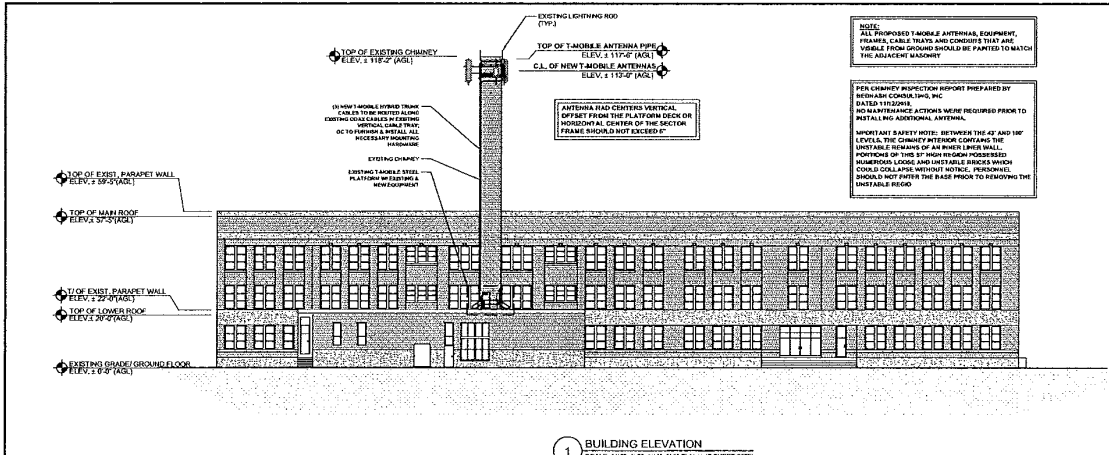
STATE OF ILLINOIS
SEAL OF THE STATE ENGINEER
HABIB R. HANFORD
15277
ST. CHARLES, ILL.

CH1722688
CPS HENRY CLAY
13231 S. BURLY AVE.
CHICAGO, IL 60633

EXISTING & NEW EQUIPMENT LAYOUT

A-1A 06/24/21
DVS

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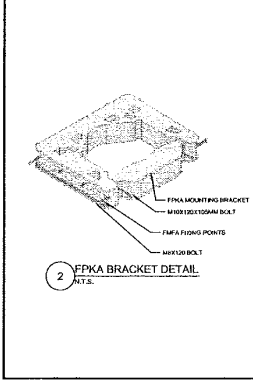


NOTE:
 ALL PROPOSED TOWER ANTENNAS, EQUIPMENT, FRAMES, CABLE TRAYS AND CHIMNEYS THAT ARE VISIBLE FROM GROUND SHOULD BE PAINTED TO MATCH THE ADJACENT MASONRY.

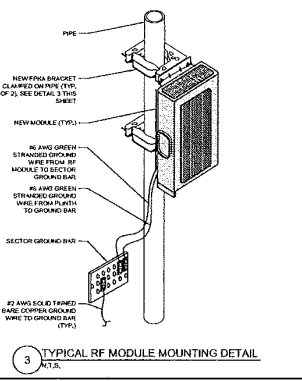
PER CHIMNEY INSPECTION REPORT PREPARED BY BERNARD CONSULTING, INC DATED 11/15/14
 NO MAINTENANCE ACTIONS WERE REQUIRED PRIOR TO INSTALLING ADDITIONAL ANTENNAS.

IMPORTANT SAFETY NOTE: BETWEEN THE 4F AND 10F LEVELS, THE CHIMNEY INTERIOR CONTAINS THE INSTALLED REMAINS OF AN INVERTER WALL. PORTIONS OF THIS 3F HIGH SECTION POSSESSED NUMEROUS LOOSE AND DETACHABLE BRICKS WHICH SHOULD BE CALLED OUT WITHOUT NOTICE. PERSONNEL SHOULD NOT ENTER THE AREA PRIOR TO REMOVING THE INSTALLED BRICKS.

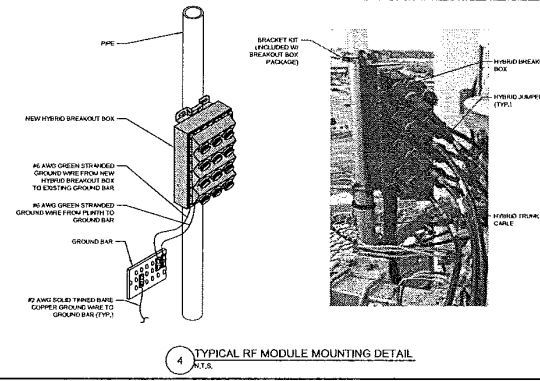
1 BUILDING ELEVATION
 SCALE: 1/8" = 1'-0" (1/16" = 1'-0" X 17 SHEET SIZE)



2 FPKA BRACKET DETAIL
 N.T.S.



3 TYPICAL RF MODULE MOUNTING DETAIL
 N.T.S.



4 TYPICAL RF MODULE MOUNTING DETAIL
 N.T.S.



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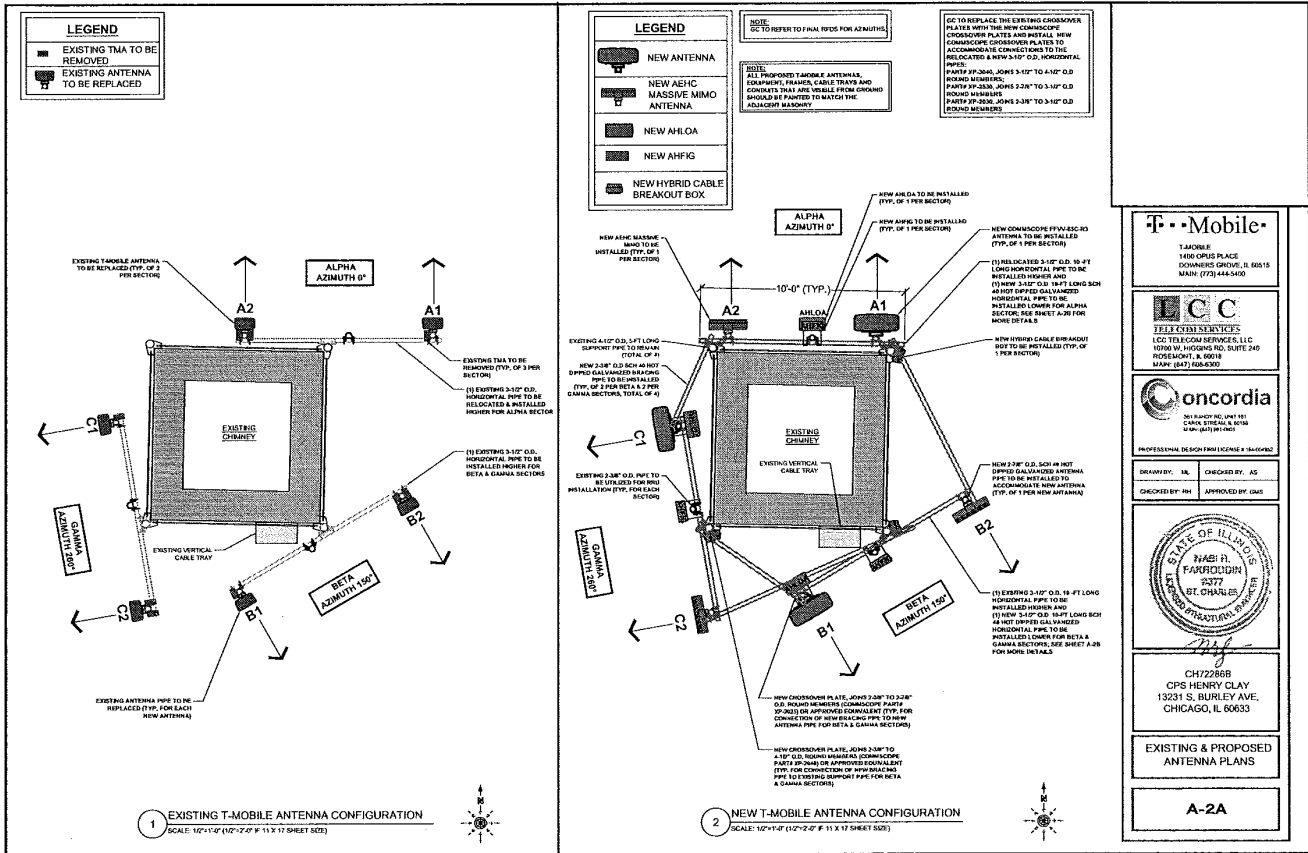
concordia
 361 RANNEY RD, UNIT 101
 GARDEN CITY, IL 60140
 MAIN (312) 811-0661



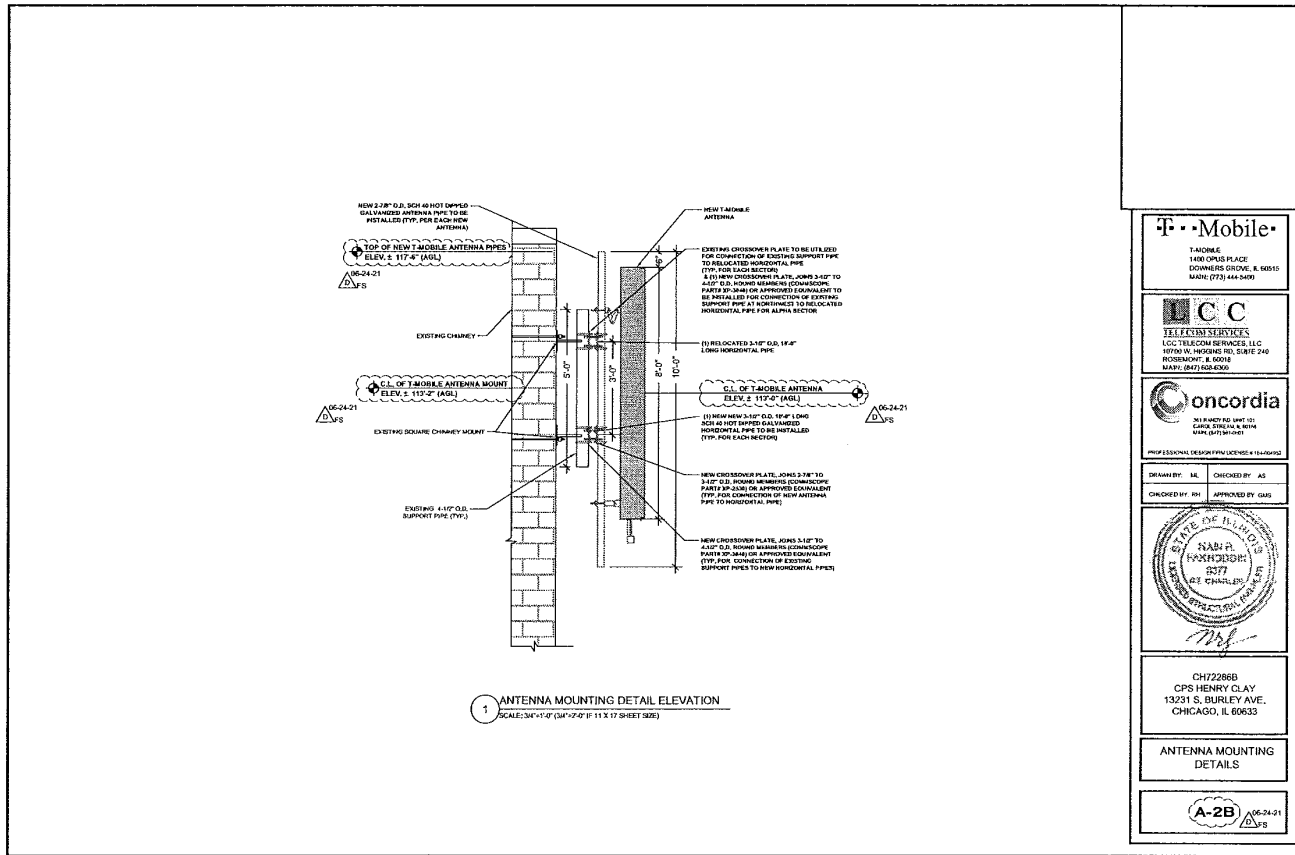
CH2286B
 CPS HENRY CLAY
 13231 S. BURLEY AVE.
 CHICAGO, IL 60633

BUILDING ELEVATION
 AND DETAILS

A-2



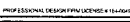
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CH72266B
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ANTENNA MOUNTING
DETAILS

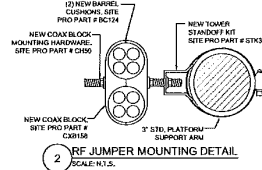
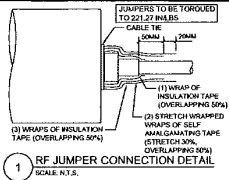


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FINAL ANTENNA AND CABLE SCHEDULE														
SECTOR	POS.	AZIMUTH	RAD CENTER	TECHNOLOGY	MECHANICAL TILT	ELECTRICAL TILT	ANTENNA	STATUS	RRU TYPE	FIBER JUMPERS FACTORY LENGTH	SECTOR FIBER JUNCTION BOXES	HCS FACTORY LENGTH	BASE FIBER JUNCTION BOXES	JUMPER LENGTH
ALPHA	A2	0°	113'	L2500/N2500	0°	T.B.D.	AEHC (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	30'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 150' HYBRID TRUNK CABLE TO BE INSTALLED	(3) NEW TOWER OVP/ FIBER JUNCTION BOXES TO BE INSTALLED	15'
	A1	0°	113'	LTE 700/LTE 600/ N500G/1900A, 1900/ U1900L/2100/ N1900/ N2100	0°	5°/5°/2°/3°	COMMSCOPE - FFVV-65C-R3	NEW	(1) NEW AHL-0A & (1) NEW AHFG	(2) 15'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 125' HYBRID TRUNK CABLE TO BE INSTALLED		(2) 15'
BETA	B2	150°	113'	L2500/N2500	0°	T.B.D.	AEHC (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	15'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 125' HYBRID TRUNK CABLE TO BE INSTALLED	(3) NEW TOWER OVP/ FIBER JUNCTION BOXES TO BE INSTALLED	15'
	B1	150°	113'	LTE 700/LTE 600/ N500G/1900A, 1900/ U1900L/2100/ N1900/ N2100	0°	6°/8°/4°/4°	COMMSCOPE - FFVV-65C-R3	NEW	(1) NEW AHL-0A & (1) NEW AHFG	(2) 15'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 125' HYBRID TRUNK CABLE TO BE INSTALLED		(2) 15'
GAMMA	C2	260°	113'	L2500/N2500	0°	T.B.D.	AEHC (ACTIVE ANTENNA - MASSIVE MIMO)	NEW	-	15'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 125' HYBRID TRUNK CABLE TO BE INSTALLED	(3) NEW TOWER OVP/ FIBER JUNCTION BOXES TO BE INSTALLED	15'
	C1	260°	113'	LTE 700/LTE 600/ N500G/1900A, 1900/ U1900L/2100/ N1900/ N2100	0°	7°/7°/2°/3°	COMMSCOPE - FFVV-65C-R3	NEW	(1) NEW AHL-0A & (1) NEW AHFG	(2) 15'	(1) NEW HYBRID BREAKOUT BOX TO BE INSTALLED	(1) NEW HCS 2.0 125' HYBRID TRUNK CABLE TO BE INSTALLED		(2) 15'

(*1) SHARED WITH ALL SECTORS

IMPORTANT NOTE: PLEASE REFER TO LATEST RFBS SHEET FOR NSN CONFIGURATION, GC TO CAP ALL UNUSED PORTS.

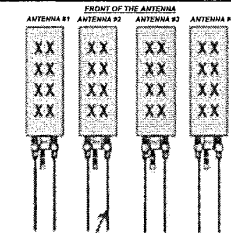


COAX COLOR CODING

- ANTENNAS WILL BE LABELED (BACK OF ANTENNA VIEW) RIGHT TO LEFT IN PORTS
- COAX/JUMPER LINES WILL BE IDENTIFIED BY SECTOR COLOR AND BY NUMBER OF BANDS AROUND THE CONDUCTOR

SECTOR A	RED
SECTOR B	GREEN
SECTOR C	YELLOW
SECTOR D	WHITE
SECTOR E	PURPLE
SECTOR F	ORANGE
SECTOR G	BROWN
SECTOR H	BLACK
SECTOR I	GRAY
SECTOR J	PINK
SECTOR K	BLUE
SECTOR L	TEAL
SECTOR M	SLATE
SECTOR N	MAUVE
SECTOR O	PLUM
SECTOR P	MAHOGANY
SECTOR Q	ROSEWOOD
SECTOR R	CHERRYWOOD
SECTOR S	WALNUT
SECTOR T	ROSEWOOD
SECTOR U	CHERRYWOOD
SECTOR V	WALNUT
SECTOR W	ROSEWOOD
SECTOR X	CHERRYWOOD
SECTOR Y	WALNUT
SECTOR Z	ROSEWOOD

FIBER ID: NONE
UNUSED COAX: NONE
MICROWAVE: NONE
DIVE T-15 - GPS DOWNLINK CABLE: NONE



ANTENNA AND COAXIAL CABLE SCHEDULE

- ALL ANTENNAS SHALL BE FURNISHED WITH DOWNHILL BRACKETS. CONTRACTOR SHALL COORDINATE REQUIRED MECHANICAL DOWNHILL FOR EACH ANTENNA WITH RF ENGINEER. ANTENNA DOWNHILL SHALL BE SET AND VERIFIED BY A SMART LEVEL.
- CONTRACTOR SHALL INSTALL COLOR CODE RINGS ON EACH OF THE HYBRID CABLES AND JUMPER CABLES WITH UV RESISTANT TAPE. ALL CABLE SHALL BE MARKED AT TOP AND BOTTOM WITH COLOR TAPE OR STENCIL TAG. COLOR TAPE MAY BE OBTAINED FROM GRAYBAR ELECTRONICS.

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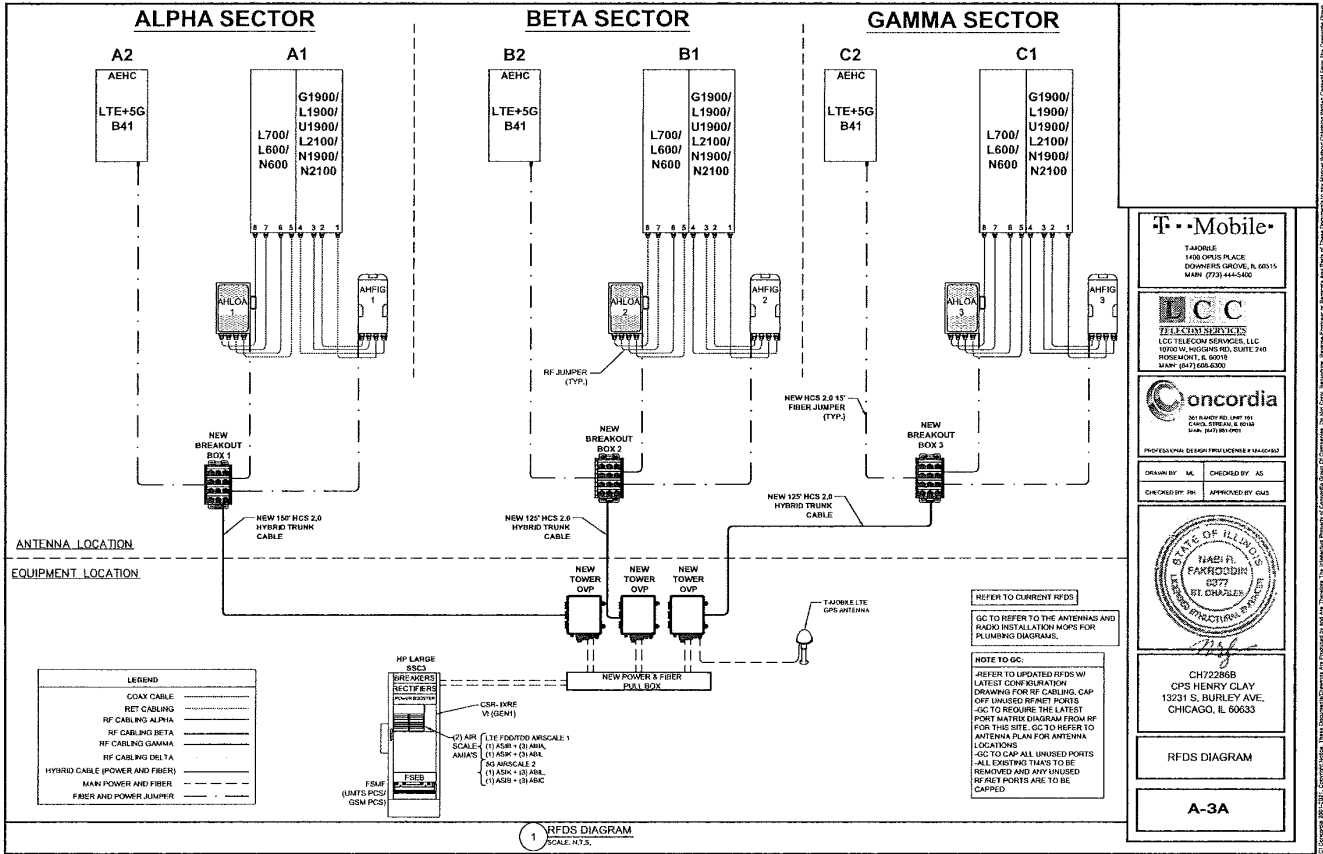
STATE OF ILLINOIS
NABE FL
PAKDEEDHAR
6377
ST. CHARLES
ILLINOIS PROFESSIONAL ENGINEER

CH22868
CPS HENRY CLAY
13231 S. BURLEY AVE.
CHICAGO, IL 60633

ANTENNA & CABLE SCHEDULE

A-3

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(708) 345-8800

PROFESSIONAL DESIGN PROFESSIONAL ENGINEER #1446342

DRAWN BY: MA, CHECKED BY: AS

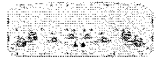
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CH220688
CPS HENRY CLAY
13231 S. BURLEY AVE,
CHICAGO, IL 60683

RFDS DIAGRAM

A-3A



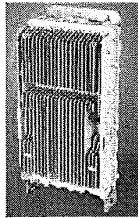
FFVW-65C-R3-V1
 8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz,
 65° HPBW, 3x RET
 MHz-Ready Antenna Technology

General Specifications

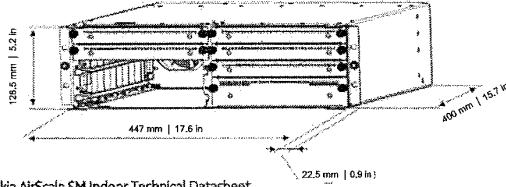
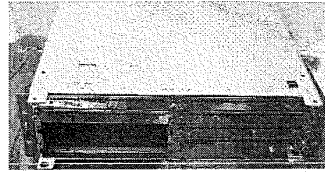
Operating Frequency Band	1695 – 2690 MHz 617 – 894 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage
Total Input Power, maximum	900 W @ 50 °C
Dimensions	
Length	2437.0 mm 95.9 in
Width	640.0 mm 25.2 in
Depth	235.0 mm 9.3 in
Net Weight, without mounting kit	56.5 kg 124.6 lb

NEW ANTENNA (COMMSCOPE- FFVW-65C-R3-V1)

AIRSCALE DUAL RRH 4T4R B1271 240W AHLOA	
SUPPORTED FREQUENCY BANDS	3GPP BAND 12/17
FREQUENCIES	BAND 12 ADJUSTED BK 698 - 713 MHz, TX 726 - 741 MHz BAND 17 BK 663 MHz - 688 MHz, TX 676 MHz - 691 MHz
NUMBER OF TRUNK PATHS/PEERS	4 PEERS, 2T4R, 4T4R FOR BOTH BANDS
INSTANTANEOUS BANDWIDTH (BW)	16 MHz FOR 8T4 AND 16MHz FOR 8T1 4 MHz RESERVE BAND FOR FUTURE USE
OCCUPIED BANDWIDTH (OBW)	60 MHz TOTAL ACROSS BANDS
OUTPUT POWER	60W PER TX SHARED BETWEEN BANDS
SUPPLY VOLTAGE RANGE	DC-48 VV (V=10-40 V)
TYPICAL POWER CONSUMPTION	60W (2x BTS BUSY HOUR LOAD AT 4T4R) (2x BUSY BANDS ACTIVE)
ANTENNA PORTS	8W (2x BTS) BUSY HOUR LOAD AT 4T4R (2x BUSY BANDS ACTIVE)
OPTICAL PORTS	4 FIBER, 4 SFP
ALD CONTROL INTERFACES	4 RS-485 FROM ANTI-L3, 4 RS-485 (DC ON ANTI-L3 ANT)
OTHER INTERFACES	EXTERNAL ALARM (2x) SERIAL CONNECTOR (4 WIRETS), 1 OUTPUT DC CIRCULAR POWER CONNECTOR
PHYSICAL	300MM (12 IN) DEEP, 600MM (24 IN) COMPANED (HORIZONTAL) BRANCHES, 300MM (12 IN) DEEP WITHOUT COVER AND BRACKET
OPERATING TEMPERATURE RANGE	-40°C TO 55°C (WITH NO SOLAR LOAD)
SHOCK PROTECTION	CLASS 9 SA
INSTALLATION OPTIONS	VERTICAL & HORIZONTAL ROOF MOUNT, POLE & WALL MOUNT



AIRSCALE DUAL RRH 4T4R B1271 240W AHLOA



Nokia AirScale SM Indoor Technical Datasheet

Capacity	Per Capacity per unit (1.0324 x 10 ⁶ x 10 ⁶)	Minimum configuration (1x BTS)
Minimum power per antenna	1.0324 W (1.0324 x 10 ⁶ x 10 ⁶)	Minimum configuration (2x BTS, 1 BTS per half subrack)
Maximum configuration	2.1 (2.1 x 10 ⁶ x 10 ⁶)	Maximum AirScale SM Indoor configuration (1x BTS per half subrack)
Installation options	1x sub-rack (indoor only) with 1x wall-mount (indoor only), 1x power distribution	
Dimensions	447 mm (17.6 in) x 228.5 mm (9.2 in) x 22.5 mm (0.9 in)	
Weight	56.5 kg (124.6 lb)	
Operational temperature range	-40°C to 55°C	
Supply Voltage / Voltage Range	48VDC (42.5V to 57V)	
Power consumption	60W (2x BTS) BUSY HOUR LOAD AT 4T4R (2x BUSY BANDS ACTIVE)	

T-Mobile
 1400 E. 140th Ave
 Denver, CO 80231

LCC
 LCC TELECOM SERVICES, LLC
 1000 W. HOOVER RD, SUITE 210
 ROSEMONT, IL 60018

Concordia
 301 W. 14th St
 Chicago, IL 60604

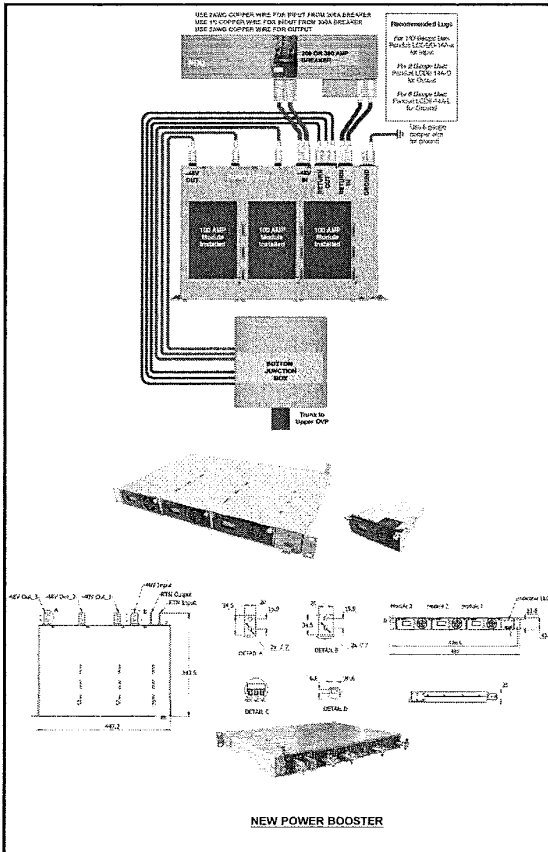
DESIGNED BY: MA CHECKED BY: AS
 CHECKED BY: RN APPROVED BY: GMS



CH27286R
 CPS HENRY CLAY
 13231 S. BURLEY AVE,
 CHICAGO, IL 60653

NEW EQUIPMENT SPECIFICATIONS

A-4



PRODUCT DESCRIPTION

Band	B41 - 2496-2680 MHz
Supported Modulation schemes	(DL) BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM (UL) BPSK, QPSK, 16 QAM, 64 QAM
No. of TX/RX	64TX64RX
MIMO Streams	16
Instantaneous BW	104 MHz
Occupied Bandwidth (BW Total) Avg. ERP	190 MHz 79.8 dBm
Supported bandwidths	LTE: 5x20 MHz 5G: 40/60/80/100MHz
Output Power	5 W / TRX (320 W total, 2 W/MHz up to 160 MHz)
Power Consumption	±1330 W typical (75% DL duty cycle, 30% RF load) ±1827 W max (75% DL duty cycle, 100% RF load)
Optical Ports	4 x SFP28 (QSFP), 25 Gbps, eCPRI
Connector Type	APPG DC Pole connector
Dimensions (H x W x D)	38.2 in x 21.5 in x 5.5 in
Weight lbs	106.0 lb
HW/SW Availability	SRAN20L/SG20B
5G NR Support	Yes
Material Description	Nokia AirScale MAA 64T64R 192AE B41 320W 4EHC 4EHC 475132A

NOKIA AIRSCALE MAA 64T64R 192AE B41 320W 4EHC ANTENNA

PRODUCT DESCRIPTION

Band	B25 + B16
Instantaneous BW (DL/UL)	65MHz on Band 25, 80MHz on Band 66
Supported Modulation schemes	up to 64QAM (UL) and up to 256QAM (DL)
Supported bandwidths	LTE 1, 4, 3, 5, 10, 15, 20 MHz
No. of ports	4T4R
Output Power	80 W for Band 25 and 40 W for Band 66 (Total Power is 480W)
DC connector	Terminal block
Optical Fiber connector	2 x 9.8Gbps CPRI, R2CT IP seal
RF Connector	4.3-10+
AISG	AISG on all ports, DC on ANT1 and ANT2
Dimensions (H x W x D) in	27.3 x 12.1 x 5.2
Weight lbs	70.5 without cover
HW/SW Availability	Available now - SRAN19A
5G NR Support	YES
NB-IoT Support	YES (in band, guardband, standalone)

AHFIG

T-Mobile
T-MOBILE
1400 BIRCH PLACE
DOWNSIDE GROVE, IL 60016
MANE (773) 444-5400

LCC
TELECOM SERVICES
LCC TELECOM SERVICES, LLC
13300 N. INGERSOLL RD., SUITE 240
ROSEMONT, IL 60018
MANE (630) 656-0000

Concordia
3100 S. STATE ST. SUITE 101
CHICAGO, ILLINOIS 60608
MANE (773) 444-5400

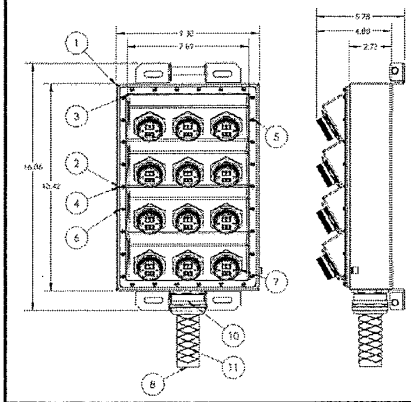
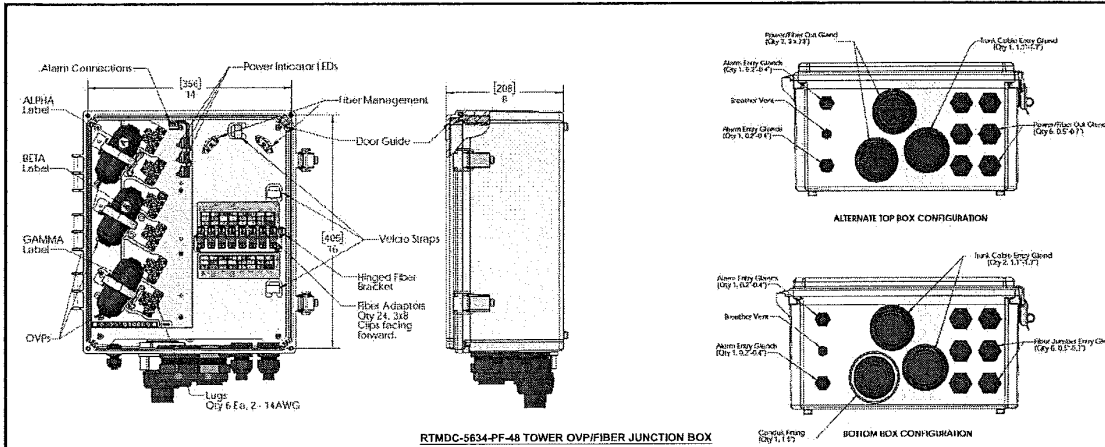
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CHECKED BY: RM APPROVED BY: GMS

STATE OF ILLINOIS
NAB: FT. KARRINGTON
3277
FT. CHARLES, ILLINOIS
CHICAGO, ILLINOIS

CH722868
CPS HENRY CLAY
13231 S. BURLEY AVE.
CHICAGO, IL 60633

NEW EQUIPMENT SPECIFICATIONS

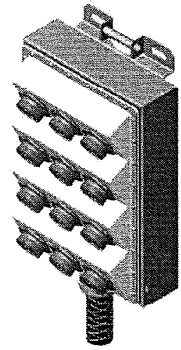
A-4A



NOTE:
1. TOTAL VOLUME IS Max 480.4 CUBIC INCH.

ITEM NO.	PART NUMBER	DESCRIPTION	AC-DESIGN-LF-SHP/Qty.
1	AC-D810S-24P-DIC	1P SHEETMETAL BOX	1
2	AC-CR10S-FE-HC-CAF	CASSET EPDM	1
3	AC-FB-FRONT-ASHEP-ACON	HYBRID MODULE INCLINE MOUNT THERMO SHEIL	1
4	AC-STROG-HC-AP	METAL O-RING	1
5	Washer LW 0.125	WASHER	30
6	SCMRB04036	TAMPED PROOF 4-6-32 SCREW	30
7	CF-970822-101-10S-W/EC	JAM NUT RECEPTACLE	12
8	AC-AP0201TW02	HYBRID CABLE HNC-AP	1
9	AC-00128	LOCKBUT FOR CABLE GLAND	1
10	AC-00342	CABLE GLAND	1
11	HOBT CRIP	CABLE HOBT CRIP	1

HYBRID CABLE HIGH-CAP BREAKOUT BOX



T-Mobile

15400 E. 150th St
Denver, CO 80227
303.746.4600

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LCC TELECOM SERVICES, LLC
10700 W. HAWKINS RD, SUITE 240
DENVER, CO 80231
303.746.4600

oncordia
3615 W. 86th St
Denver, CO 80231
303.746.4600

PROFESSIONAL DESIGNER LICENSE # 19-00392

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DESIGNED BY: SH APPROVED BY: GMS

STATE OF ILLINOIS
NABE P.
PROFESSIONAL ENGINEER
2377
ST. CHARLES
ILLINOIS

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CPS HENRY CLAY
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CHICAGO, IL 60653

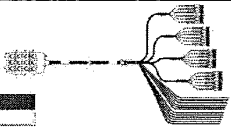
NEW EQUIPMENT SPECIFICATIONS

A-4B

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HybridConnect

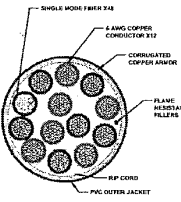
NWS-HCS2-HC4-XXX
HCS 2.0 Trunk HCap 12 RRU 12X4AWG



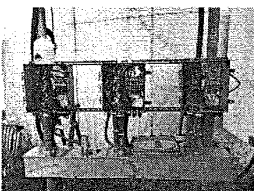
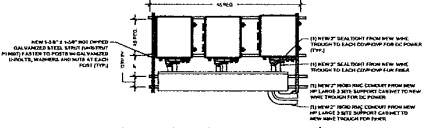
General Specifications			
Maximum OC	1200 m (4921 mm)		
Cable Weight	5496 g/km (1550 lb/1000 ft)		
Jacket Color	Black		
Minimum Bend Radius (as installed)	15.1%		

DLC Cable Specifications			
End Fibers	8		
OC Connector Size	4 AWG		
OC Resistance Maximum	0.254 Ohms / 1000 ft		
Resistance Length End 1	38 m (125 ft)		
Resistance Length End 2	Maximum Endless		

Product Ordering			
Port Number	Description	T-MODEL SKU	
NWS-HCS2-HC4-250	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 250 FT	190	
NWS-HCS2-HC4-275	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 275 FT	190	
NWS-HCS2-HC4-300	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 300 FT	190	
NWS-HCS2-HC4-325	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 325 FT	190	
NWS-HCS2-HC4-350	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 350 FT	190	
NWS-HCS2-HC4-375	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 375 FT	190	
NWS-HCS2-HC4-400	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 400 FT	190	
NWS-HCS2-HC4-425	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 425 FT	190	
NWS-HCS2-HC4-450	HCS 2.0 Trunk HCap 12 RRU 12X4AWG 450 FT	190	



1 NEW HCS 2.0 TRUNK
N.T.S.





COV/OVP UNISTRUTS FRAME ELEVATION DETAIL

COMMSCOPE

HFT410-ASNOK2-150
HELIX® FiberFeed®
Hybrid Cable Assembly, HQLC

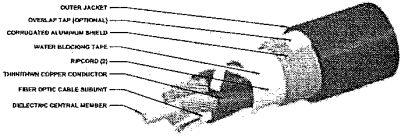
End 1: 4 fibers terminated DLC for Nokia RRU with flush cut power cord (red/black conductors). End 2: 4 fibers terminated LC and 4X10 AWG conductors terminated at hybrid trunk connector. 15 ft



Dimensions	
Property	Value
Cord Length	4.57m (15.000 ft)
Diameter Over Jacket	16.31mm (0.721 in)
Center Conductor Gauge	10 AWG
Minimum Bend Radius	22.1mm (0.791 in)

COMMSCOPE

HTC-4SM-410-APVA
HELIX® FiberFeed®
Hybrid Cable, UL Type TC-OF-ER



Properties	
Description	Value
Buffer Tube/Sheath Diameter	3.556 mm (0.14 in)
Diameter Over Jacket	18.288 mm (0.720 in)
Center Conductor Gauge	10 AWG
Minimum Bend Radius, multiple bends loaded	385.76 mm (15.19 in)
Maximum Bend Radius, multiple bends loaded	220.64 mm (8.7 in)
Minimum Bend Radius, multiple bends loaded	127 mm (5 in)
Cable weight	456.122g/100m (206.54lb)

2 NEW HYBRID JUMPER
N.T.S.

T-Mobile

TABLE
1400 OPEN PLACE
DOVERNS GROVE, IL 60515
MAIN (773) 444-6600

LCC
LCC TELECOM SERVICES, LLC
10700 W. HICKORY RD, SUITE 240
ROSEMONT, IL 60069
MAIN (630) 658-6000

Concordia
30 W. MADISON ST. 10TH FLOOR
CHICAGO, IL 60604
PROFESSIONAL DESIGN/REGISTERED # 10-06-010

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CHECKED BY: BH APPROVED BY: GMS

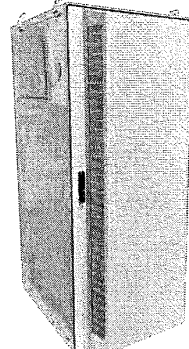
STATE OF ILLINOIS
NABE P. L. FARRINGTON
2577
ST. CHARLES
COUNTY CLERK

01722868
CPS HENRY CLAY
13231 S. BURLEY AVE.
CHICAGO, IL 60633

NEW EQUIPMENT SPECIFICATIONS

A-4C

HP-Large 3 Power Cabinet



Product Features

- Compact design for equipment, power and battery
- 500V supports 2-bus and transient equipment
- 600A @ 48V power system
- Static high potential resistor
- OEM/TP Touch screen Controller
- Rear Access Hatch

Direct air cooling solution, 6000W capacity, 0°C delta T

Easy 80A on bar replacement for Meriv-13 or Core

Filter status with:

- New 2 string 55in Battery cabinet
- Large 2 battery cabinet
- VCI Equipment and battery cabinet

Designed to GR-487 specification

Specifications

Model: HP-Large 3 Power Cabinet

1. General

Construction: Aluminum enclosure
30" x 72" x 37" Hx
Depth with Door: 43 in.

Weight: 350 lbs. (includes excluded)

Internal rack dimension: Total Equipment space: 3000"
Horizontal rack: 1P x 22RU
Vertical rack: 1P x 22RU

Mounting options: Floor System name: 2P x 12RU

Finish: Polyester Powder Paint (Tan)

Safety: UL Listed, IEC I EN 60950

2. Environment

Operating temperature: -40°C to +50°C (-40°F to +122°F) with solar load, IP 55 design to GR-487

Protection class: designed to GR-487

Acoustics: 57C delta T: 70 dBA @ 6000W, 65 dBA @ 8000W base load

Humidity (relative): 95%, non-condensing (Max.)

3. Thermal management

Cooling Equipment: Direct Air Cooling (DAC) Area T
(1) 500W/1000W/2000W base
(2) Meriv-13 or optional CORE bars from door
(3) Meriv-13 from rear hatch

Heating Equipment: Forced air heating (2) 1000W AC heaters

4. Equipment

Cable Entry: Knock-out plate on each upper side wall
Additional knockouts each side
(1) 2" conduit hole with hole plug

Door latch: 3 point latching, 60 lbs net weight tool, padlocking capability

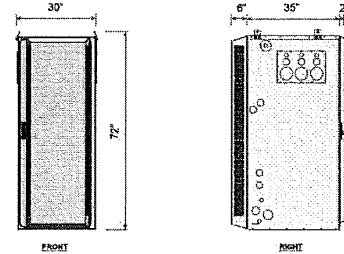
Primary ground: 10 double hole 1/2" OD threaded holes on 50" center ground bar

Lining Ears: 4 Lining Tails

Standard equipment: AC Load Center (2RU) dual level (1) 200A + (1) 100A
500V single level (1) 250A
AC Surge Protection for each breaker level
GFCI Breaker 120V
(6) 600V AC Alarm Transduction Block
(1) Thermistor
600A/5V (3000W) redundant Power System with DIN rail distribution:
(1) 600A busbar (per 240A SPRE300 system included)
(2) 600V busbar (per 240A SPRE300 system included) 16
pins for battery only 2400A battery circuit breaker included (2)
500V generator connector
120V over-voltage switch
(2) 800V battery connectors
(2) 800V battery connectors

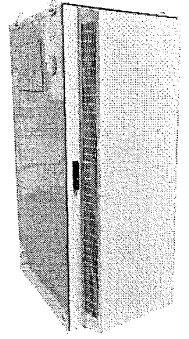
From Door: (1) IEC grounded terminal block with (2) MERIV-13 Bars, (2) CORE option
Clipped floor alarm protected switch
Door intrusion alarm
(2) 1000W AC powered heaters
LED interior cabinet light

Rear Hatch: Exhaust vent with (2) MERIV-13 bars



1 DELTA HP-LARGE 3 POWER CABINET
N.T.S.

Large Battery 3 Cabinet



Product Features

- Direct air cooling solution with optional Core Bar
- Supports four strings of 48V MGA batteries up to 210Ah
- 600A bus bar with individual 200A breakers per string
- Risk Report 1000w with safety to display cabinet
- Connectors M include cables with disconnects
- Rear hatch access
- Corrosion resistant aluminum construction
- Powder coated high gloss finish - Designed to meet GR-487

Specification

Model: Large 3 Battery (LB3) Cabinet

Construction: Aluminum enclosure
30" x 72" x 35" Hx (216" x 1820" 600mm),
Depth with door: 41 in. (1040mm)

Weight: ~545 lbs (247kg) (without batteries)

Internal rack dimension: 4 battery trays to support up to 210Ah batteries

Mounting options: Padmount, plate option

Finish: Polyester Powder Paint (Tan)

Safety: UL Listed, IEC I EN 60950

Environment

Operating temperature: -40C to +50C (-40F to +122F) with solar load.

Protection class: IP 55 designed to GR-487

Acoustics: 65 dBA

Humidity (relative): 95%, non-condensing (Max.)

Thermal management

Cooling: Direct Air Cooling (4) Axial Fans, Filter: F4 front and rear

Heating: Forced air heating (2) 1000W AC heaters

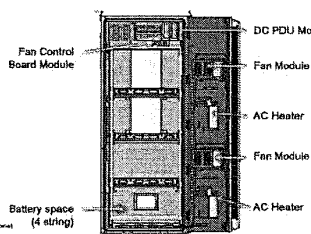
Equipment

Cable Entry: Knock-out plate on each upper side wall
Additional knockouts each side
3 point latching, 60 lb net weight tool, padlocking capability
4 eye-balls

Door Latch: 3 point latching, 60 lb net weight tool, padlocking capability
4 eye-balls

Standard equipment: AC Load Center with AC Surge protection and GFCI outlet
Left or Right side AC entry options
(2) 1000W AC powered heaters

DC Load Center 600A bulk head bar bar
(4) 20000A DIN rail battery
Insulators (4) 2-Axis lag bearings
(2) Anderson SB300 input connectors to battery string 2nd
battery cabinet
240V battery cables from breakers to trays
Configurable trays for (4) strings of up to 210Ah batteries
Door intrusion switch
LED interior cabinet light
Fan Control Board, battery alarm via RJ45 output
(Fan & breaker alarms)
Cabinet Connection kit
(2) 4 0 cables with SB300 disconnects to connect to power cabinet



2 DELTA BATTERY CABINET
N.T.S.

T-Mobile

TABLE 1
1400 SPIN PLACE
DOWNERS GROVE, IL 60515
MAIN (773) 444-5400

LCC

TELECOM SERVICES
LCC TELECOM SERVICES, LLC
1000 W. HICKING RD. SUITE 240
ROSEMONT, IL 60018
MAIN (847) 664-6300

Concordia

30 WINDY HOLLOW DR
CANTON, ILLINOIS 61820
MAIN (309) 252-1000

POWER SERVICES, ILLINOIS POWER SERVICES • 1/14/2017

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CHECKED BY: NH APPROVED BY: GMS

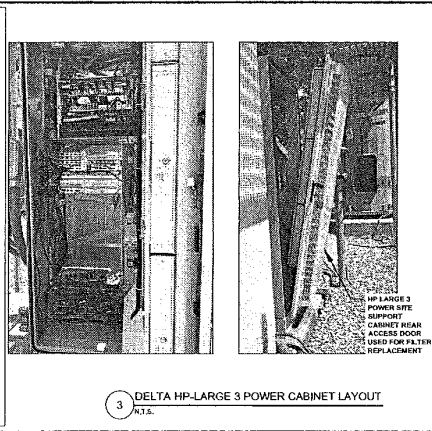
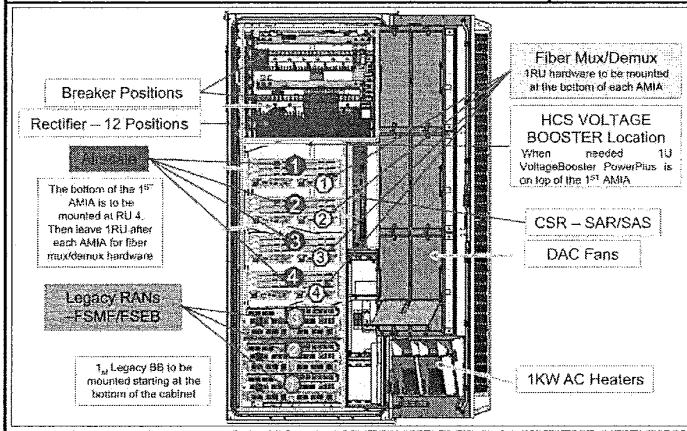
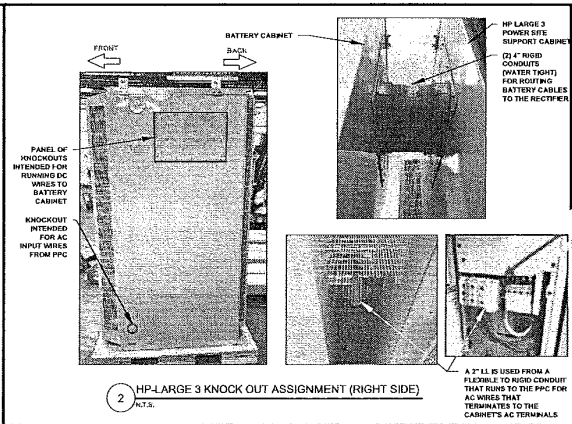
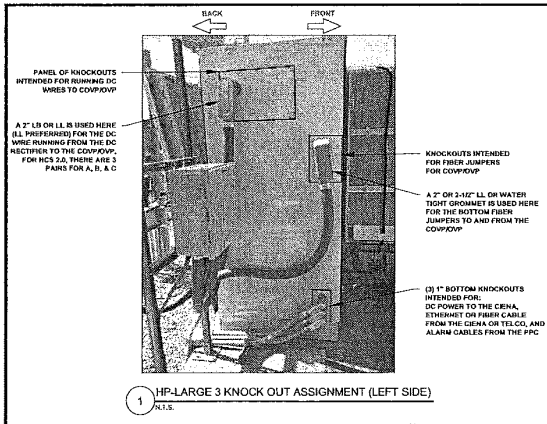
STATE OF ILLINOIS
HABEAS CORPUS
3377
ST. CHARLES
ILLINOIS

CH222868
CPS HENRY CLAY
13231 S. BURLAY AVE.
CHICAGO, IL 60633

NEW EQUIPMENT
SPECIFICATIONS

A-4D

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T-Mobile
T-Mobile
1400 OPIUS PLACE
DOWNERS GROVE, IL 60515
MAIN: (773) 444-5400

LCC
LCC TELECOM SERVICES, LLC
1500 W. WISCONSIN RD. SUITE 240
ROSEMONT, IL 60018
MAIN: (630) 606-6300

Concordia
201 SUNDY RD, UNIT 101
DANA POINT, CA 92629
TEL: (949) 261-0000
PROFESSIONAL DESIGN FIRM LICENSE # 111-00932

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CHECKED BY: ML APPROVED BY: GJS

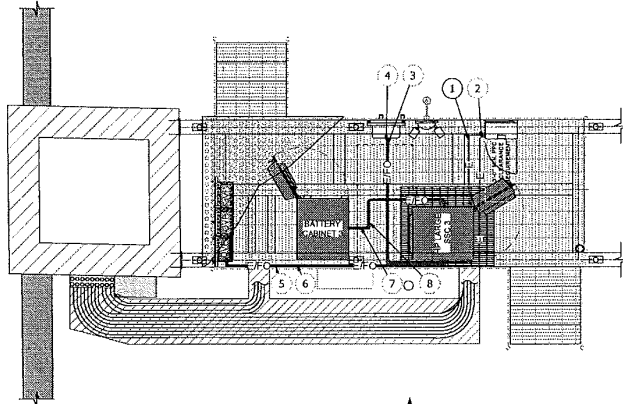
STATE OF ILLINOIS
NABE R. FARROKHIAN
6377
TEL. 634-2445
REGISTERED PROFESSIONAL ENGINEER

CH722868
CPS HENRY CLAY
13231 S. BURLEY AVE.
CHICAGO, IL 60633

NEW EQUIPMENT SPECIFICATIONS

A-4E

CONDUIT LEGEND	
	FIBER OPTIC CONDUIT
	ELECTRIC CONDUIT



1 PROPOSED EQUIPMENT LAYOUT
SCALE: 1/2"=1'-0" (1/2"=2'-0" IF 11 X 17 SHEET SIZE)

EQUIPMENT LEGEND	
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
	EXISTING EQUIPMENT TO BE RELOCATED
	EXISTING EQUIPMENT TO REMAIN

UTILITY LEGEND							
NO.	FROM	TO	WIRE QTY. & TYPE	GROUND	CONDUIT SIZE	FUNCTION	APPROXIMATE CONDUIT LENGTH
1	PVC	HP LARGE 3 SSC	(3) 3/8 & (3) #12	(1) #4 & (1) #14	2" RIGID RMC W/ 1" TIE-BACKED LL TYPE RIGID CONDUIT BODY TO BE CONNECTED ON FRONT 2" RACKMOUNT OF SSC	ELECTRIC CONDUIT (POWER FOR SSC & FOR (2) OUTLET)	11'F
2	PVC	HP LARGE 3 SSC (FOR FIBER)	1 PAIR OF BELLS 2716A #18 AWG	N/A	1" RIGID RMC	ELECTRIC CONDUIT	11'F
3	CEMA	HP LARGE 3 SSC	(3) CAT-6 CABLE	N/A	1" RIGID RMC	FIBER CONDUIT	12'F
4	CEMA	HP LARGE 3 SSC	(3) #12	(3) #4	1" RIGID RMC	ELECTRIC CONDUIT	12'F
5	HP LARGE 3 SSC	FIBER & POWER PULL BOX	2 Pairs of #2	N/A	2" RIGID RMC	ELECTRIC CONDUIT	12'F
6	HP LARGE 3 SSC	FIBER & POWER PULL BOX	0PS CABLE, 0PS ALARM WIRE & 3 BRKR	N/A	2" RIGID RMC	TELECO CONDUIT	12'F
7	HP LARGE 3 SSC	BATTERY 3 CABINET	(2) CAT-6 CABLES	N/A	4" RIGID RMC	TELECO CONDUIT FOR BATTERY ALARM	11'F
8	HP LARGE 3 SSC	BATTERY 3 CABINET	4 Pairs of 40 TELECO FLEX CABLE, (2) #12 & (2) #12	(1) #14	4" RIGID RMC	ELECTRIC CONDUIT	11'F

NOTE: * THE CONDUIT LENGTHS GIVEN ARE BASED ON THE DRAWING - 10% THE EXACT LENGTH TO BE VERIFIED IN FIELD. DO TO VERIFY LENGTHS AFTER COORDINATING WITH UTILITY COMPANIES.

IMPORTANT NOTE:	BIDDING & CONSTRUCTION NOTE:
ALL UNITS, FASTENERS, HARDWARE, ETC. ARE TO BE EITHER HIGH-DRAWN GALVANNELED OR STAINLESS STEEL. GENERAL CONTRACTOR SHALL NOT USE ZINC PLATED OR PRE-GALVANNEDED.	WIRE SIZES SHOWN ARE ESTIMATED MINIMUMS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL AND BUILDING CODES IN ADDITION TO NEC 2011 AND FOLLOW APPROPRIATE ENGINEERING CONVENTIONS. CONTRACTOR SHALL ESTIMATE PHASE CONDUCTOR SIZE & UTILIZE THE APPROPRIATE WIRE SIZE AND TYPE, ADDING A 25% VOLTAGE DROP. CONTRACTOR TO CONFIRM WITH LOCAL ELECTRICAL INSPECTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION START.
FIBER & POWER ROUTES TO BE CONFIRMED WITH A MOBILE PRIOR TO CONSTRUCTION START.	

Mobile
T-MOBILE
1400 OPLIS PLACE
DOWNERS GROVE, IL 60514
MAIN (773) 444-5400

ILCC
ILLINOIS COMMUNICATIONS SERVICES, LLC
1100 W. MANSFIELD, SUITE 240
ROSEMONT, IL 60018
MAIN (847) 564-6300

Concordia
361 RANDOLPH AVE. UNIT 101
CHICAGO, ILLINOIS 60604
MAIN (312) 964-4400

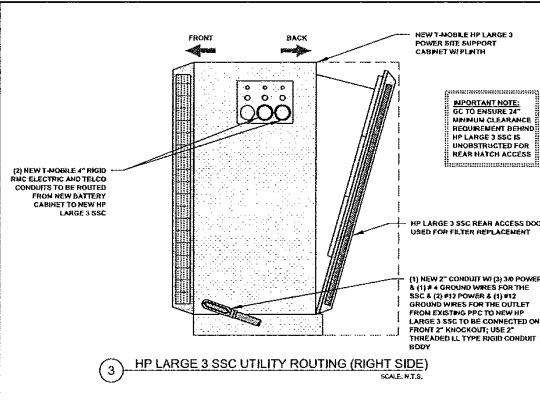
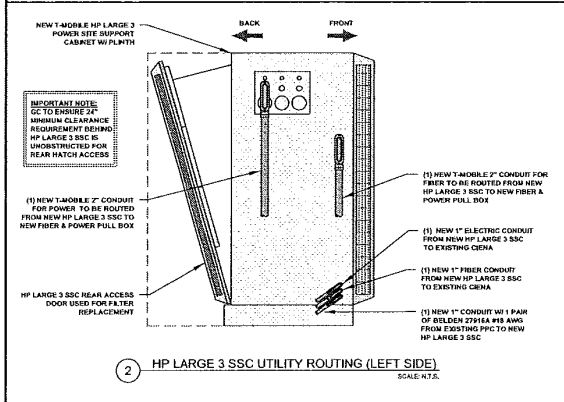
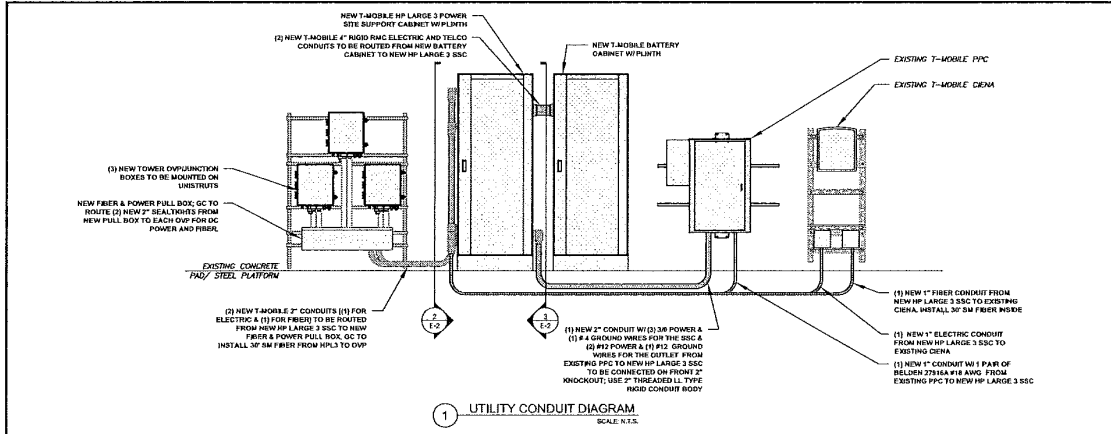
PROFESSIONAL ENGINEER LICENSE # 148664822
DRAWN BY: ME CHECKED BY: AS
CHECKED BY: PH APPROVED BY: GAS

CH72266B
DPS HENRY CLAY
12291 S. BURLEY AVE.
CHICAGO, IL 60633

UTILITY PLAN LAYOUT

E-1

DocuSign Envelope ID: D31AC4F5-8347-433E-9023-5366031A0376



T-Mobile
 T-MOBILE
 1400 CPUS PL ACE
 EDWARDS SHAW, IL 60615
 MAIN (773) 444-5400

LCC
 LCC TELECOM SERVICES, LLC
 10700 W. HODGINS RD, SUITE 240
 HOEDEMEYER, IL 60141
 MAIN (847) 604-9300

Concordia
 300 N. RANDY RD, UNIT 101
 CHICAGO, ILLINOIS 60641
 MAIN (312) 874-0001

PROFESSIONAL DESIGN FIRM LICENSE # 14404942

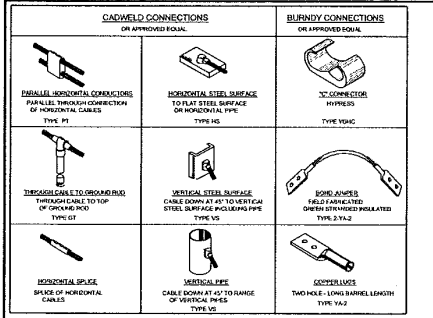
DESIGNED BY: ML CHECKED BY: AC
 CHECKED BY: RH APPROVED BY: GAG

STATE OF ILLINOIS
 HAZEL B. PARROTT
 2077
 ST. CHARLES

CH722868
 CPS HENRY CLAY
 13231 S. BURLEY AVE.
 CHICAGO, IL 60653

UTILITY DETAILS

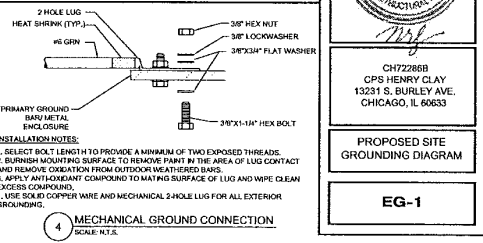
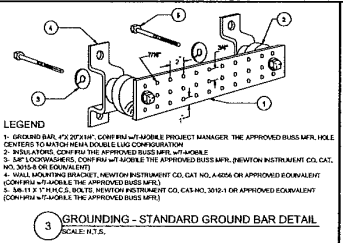
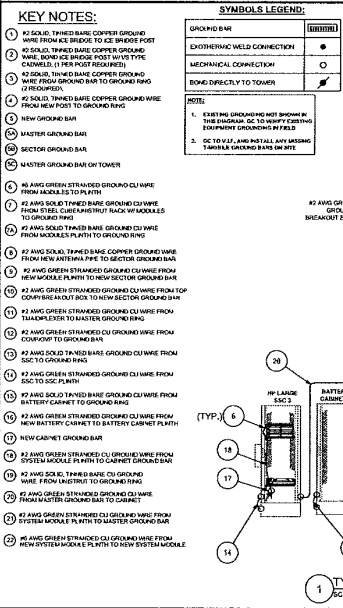
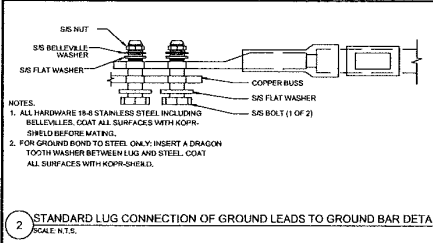
E-2



CADWELD DETAILS

GROUNDING NOTES:

- UNDERGROUND AND OVERHEAD UTILITY LENGTHS TO BE DETERMINED FROM SITE PLAN.
- SEE ELECTRICAL SPECIFICATIONS SECTION 16000 FOR ALL ELECTRICAL AND GROUNDING INSTALLATION REQUIREMENTS.
- FOR ORIENTATION OF SITE LAYOUT SEE SITE PLAN DRAWING.
- UDA CABINET FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- GROUND KITS PROVIDED BY OWNER SHALL BE RETROFITTED TO ACCOMMODATE 2-HOLE LUG CONNECTION AND APPROPRIATE LENGTH.
- CONTRACTOR RESPONSIBLE TO PROVIDE OWNER CERTIFICATION OF RESISTIVITY TESTING.
- GROUND RODS TO BE INSTALLED AT 10' CENTERS.
- ALL GROUND LEADS TO BE SERVED BY 1/2" SCHEDULE 40 PVC CONDUIT AND SEALED W/ SILICONE.
- GROUND BARS SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
- ALL BENDS IN GROUNDING SYSTEM MUST BE SMOOTH AND WELL ROUNDED AND MAINTAIN BENDING RADIUS.
- SEE SITE PLAN FOR COAXIAL ROUTING THIS SHEET IS INTENDED FOR GROUNDING CLARITY ONLY AND IS SCHEMATIC IN DETAIL.
- GROUND KITS SHALL BE INSTALLED BETWEEN 6"-12" OF ALL CONNECTORS.
- TOWER FOUNDATION DESIGN BY OWNER, INSTALLED BY CONTRACTOR.
- ADDITIONAL GROUND KITS TO BE PLACED AT 100' WHEN ANTENNA CENTERLINE IS 200' OR ABOVE.
- ALL CONDUITS TO BE SEALED W/ SILICONE TO PROVIDE A WATER TIGHT SEAL.



T-Mobile

TOWER #140
1400 OPEN PLACE
DOWNERS GROVE, IL 60515
MARK: (773) 444-5400

LCC
LCC CONSULTANTS
LCC TELECOM SERVICES, LLC
NORTH W. HOOVER RD. SUITE 210
ROSEMONT, IL 60018
MARK: (630) 686-8300

Concordia
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL DESIGN #00174922 & 16400000

DRAWN BY: SA CHECKED BY: AS
CHECKED BY: SH APPROVED BY: GAG

STATE OF ILLINOIS
NABI P. FAROQH
2277
ST. CHARLES
REGISTERED PROFESSIONAL ENGINEER

CH22868
CPS HENRY CLAY
13231 S. BURLEY AVE.
CHICAGO, IL 60633

PROPOSED SITE
GROUNDING DIAGRAM

EG-1

EXHIBIT "B"

PAYMENTS

TERM	ANNUAL LICENSE PAYMENTS
<p style="text-align: center;">1</p> <p>September 1, 2024 – August 31, 2025 September 1, 2025 – August 31, 2026 September 1, 2026 – August 31, 2027 September 1, 2027 – August 31, 2028 September 1, 2028 – August 31, 2029</p>	<p style="text-align: right;">60,000.00 61,800.00 63,654.00 65,564.00 67,531.00</p>
<p style="text-align: center;">2</p> <p>September 1, 2029 – August 31, 2030 September 1, 2030 – August 31, 2031 September 1, 2031 – August 31, 2032 September 1, 2032 – August 31, 2033 September 1, 2033 – August 31, 2034</p>	<p style="text-align: right;">69,557.00 71,644.00 73,793.00 76,007.00 78,287.00</p>
<p style="text-align: center;">3</p> <p>September 1, 2034 – August 31, 2035 September 1, 2035 – August 31, 2036 September 1, 2036 – August 31, 2037 September 1, 2037 – August 31, 2038 September 1, 2038 – August 31, 2039</p>	<p style="text-align: right;">80,636.00 83,055.00 85,547.00 88,113.00 90,756.00</p>
<p style="text-align: center;">4</p> <p>September 1, 2039 – August 31, 2040 September 1, 2040 – August 31, 2041 September 1, 2041 – August 31, 2042 September 1, 2042 – August 31, 2043 September 1, 2043 – August 31, 2044</p>	<p style="text-align: right;">93,479.00 96,283.00 99,171.00 102,146.00 105,210.00</p>