## **ZONING COMMITTEE STAFF REPORT**

FILE NAME: Verizon Wireless FILE # 17-006-697

APPLICANT: Verizon Wireless HEARING DATE: February 16, 2017

**TYPE OF APPLICATION:** Conditional Use Permit **LOCATION:** 1745 Grand Ave, NW corner at Wheeler

PIN & LEGAL DESCRIPTION: 042823420021, South 129 feet of Lots 1-3, Block 3 of Elmer & Morrison's

Rearrangement of Part of Macalester Park

PLANNING DISTRICT: 14 PRESENT ZONING: B2

**ZONING CODE REFERENCE:** §65.310; §61.501; §66.431

STAFF REPORT DATE: February 8, 2017 BY: Bill Dermody

**DATE RECEIVED:** January 26, 2017 **60-DAY DEADLINE FOR ACTION:** March 27, 2017

A. **PURPOSE:** Conditional use permit for a replacement 33'-6" high light pole with cellular telephone antennas.

B. **PARCEL SIZE:** 16,552 square feet

C. **EXISTING LAND USE:** Auto service station

D. SURROUNDING LAND USE:

Mix of multi-family residential, single-family residential, commercial, and institutional to the east and west along Grand Avenue; single-family residential farther to the north and south.

- E. **ZONING CODE CITATION:** §65.310 provides a definition and standards/conditions for cellular telephone antennas; §61.501 lists general conditions that must be met by all conditional uses; §66.431 provides dimensional standards for the B2 community business district.
- F. HISTORY/DISCUSSION: There is no recent zoning history for the site.
- G. **DISTRICT COUNCIL RECOMMENDATION:** As of this writing, the District 14 Council has not provided a recommendation.

### H. FINDINGS:

- 1. The application requests conditional use permit approval to allow installation of a replacement 33'-6" high light pole with cellular telephone antennas and associated equipment, including remote radio units (RRUs), power converters, and a breaker box. The new pole will replace a shorter existing light pole. The antennas are of a small cell canister design.
- 2. The proposed light pole replaces an existing light pole in the parking lot adjacent to Wheeler Street of an auto service station (gas station) at 1745 Grand Ave. that is zoned B2.
- 3. §65.310 lists nine standards and conditions that apply to cellular telephone antennas, including the following that apply to the subject application:
  - a. In residential, traditional neighborhood and business districts, a conditional use permit is required for cellular telephone antennas on a building less than 45 feet high or on a freestanding pole, except for existing utility poles. In residential and traditional neighborhood districts, existing utility poles to which cellular telephone antennas are attached shall be at least 60 feet high. Conditional use permit review for such antennas will take into account not only the request made by the application, but also any future eligible facility modifications allowed under 47 CFR §1.4.0001, such as antennas of a more obtrusive design or placement than the subject application. A conditional use permit is not required for any eligible facility modification allowed under 47 CFR §1.4.0001. This condition is met by the subject application and analysis included in the other findings. 47 CFR §1.4001 essentially allows any structure that supports cellular telephone antennas to be modified (regardless of zoning regulations) to accommodate additional future antennas and associated equipment so long as it does not constitute a "substantial change" in the structure's physical dimensions, and that it complies with conditions of the original antennas' siting approval. The regulation defines a "substantial change" as (applied to this case) a height increase of 20 feet plus the height of one additional antenna array, or a protrusion from the tower of more than 20 feet.

- c. For antennas proposed to be located on a building less than 45 feet high in residential, traditional neighborhood, and business districts, or on a new freestanding pole in residential, traditional neighborhood, and business districts, the applicant shall demonstrate that the proposed antennas cannot be accommodated on an existing freestanding pole or an existing structure at least 45 feet high within ½ mile radius of the proposed antennas due to one or more of the following reasons:
  - 1. The planned equipment would exceed the structural capacity of the existing pole or structure.
  - 2. The planned equipment would cause interference with other existing or planned equipment on the pole or structure.
  - 3. The planned equipment cannot be accommodated at a height necessary to function reasonably.
  - 4. The owner of the existing pole, structure or building is unwilling to co-locate an antenna. This condition is met. An application supplement states that the antennas need to be as close to the street as possible and that placement on structures taller than 45 feet would not allow the small cell technology to function reasonably.
- d. In residential, traditional neighborhood and business districts, cellular telephone antennas to be located on a new freestanding pole are subject to the following standards and conditions:
  - 1. The freestanding pole shall not exceed 75 feet in height, unless the applicant demonstrates that the surrounding topography, structures, or vegetation renders a 75-foot pole impractical. Freestanding poles may exceed the above height limit by 25 feet if the pole is designed to carry two (2) antennas. This condition is met. The requested 33'-6" pole plus future additions allowed by 47 CFR §1.4.0001 would equal 53'-6" plus antenna height.
  - 2. Antennas shall not be located in a required front or side yard and shall be set back one (1) times the height of the antenna plus 38 feet from the nearest residential building. This condition can be met. The minimum front and side yard setbacks in the B2 district are 0'. The nearest residential building is approximately 100' to the east, as compared to a height of 53'-6" plus antenna height for the proposal plus future additions allowed by 47 CFR §1.4.0001. A recommended condition would limit antennas (including future additions) to a small cell canister design such as proposed, which are currently designed as 27" in height, in order to ensure that this condition is met.
  - 3. The antennas shall be designed where possible to blend into the surrounding environment through concealment elements such as the use of color and camouflaging architectural treatment. Drawings or photographic perspectives showing the pole and antennas shall be provided to the planning commission to determine compliance with this provision. This condition can be met so long as future additions are required to have a small cell canister design such as proposed by the subject application.
  - 4. In residential and traditional neighborhood districts, the pole shall be on institutional use property at least one (1) acre in area. In the business districts, the zoning lot on which the pole is located shall be within contiguous property with OS or less restrictive zoning at least one (1) acre in area. This condition is met. The subject site's zoning lot is contiguous with property on the southwest and southeast corners of Grand Ave. and Wheeler St. that are zoned BC and B2, which combined with the subject site's zoning lot are approximately 2.7 acres in area.
- 4. §61.501 lists five standards that all conditional uses must satisfy:
  - (a) The extent, location and intensity of the use will be in substantial compliance with the Saint Paul Comprehensive Plan and any applicable subarea plans which were approved by the city council. This condition is met. There are no plan policies specific to this application.

Zoning Committee Staff Report Zoning File # 17-006-697 Page 3 of 3

- (b) The use will provide adequate ingress and egress to minimize traffic congestion in the public streets. This condition is met. The use produces very minimal traffic in the form of an occasional service truck that can be accommodated by existing ingress and egress.
- (c) The use will not be detrimental to the existing character of the development in the immediate neighborhood or endanger the public health, safety and general welfare. This condition can be met if the design of the antennas (including any future additions) is small cell canister such as proposed.
- (d) The use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district. This condition is met. The proposed pole will not impede the development and improvement of surrounding property.
- (e) The use shall, in all other respects, conform to the applicable regulations of the district in which it is located. This condition is met. The proposal will conform to all other B2 regulations, as will be confirmed through building permit review and any site plan review.
- I. **STAFF RECOMMENDATION:** Based on the above findings, staff recommends approval of the conditional use permit for a replacement 33'-6" high light pole with cellular telephone antennas subject to the following additional condition(s):
  - 1. Final plans approved by the Zoning Administrator for this use shall be in substantial compliance with the plan submitted and approved as part of this application.
  - 2. Antennas shall be of a small cell canister design similar to that presented in the application materials.

## Attachments:

- 1. Application materials
- 2. 47 CFR §1.4001
- 3. Streetview photos
- 4. Maps

## CONDITIONAL USE PERMIT APPLICATION

Department of Planning and Economic Development Zoning Section 1400 City Hall Annex 25 West Fourth Street

|     | Zoning office use only  |
|-----|---|
|     |   |
|     | FII0 #  |
|     | Fee: OECA-ECE   |
| . 1 | Tentative Hearing Date:   |
| 4   |   |
|     | スコンデリー  |
|     | <b>第</b> 377年,2016年第四年第一  |
|     | Henry bearing the same bearing the same and |

| 25 West F   | Hall Annex<br>ourth Street<br>I, MN 55102-1634<br>-6589 | PD = VH Tentative Hearing Date: $2 - (G + V)$  |
|---|---|--|
|   |   | 04282342 0021  |
|   | Name_ Verizon Wireless (Representative: Karyn O         | Brien 323 N. Cedar St. Chaska, MN 55318)   |
|   | Address_Verizon: 10801 Bush Lake Rd                     |  |
| APPLICANT   | City Bloomington St. MN Zip 5543                        | 8Daytime Phone_952-288-8130  |
|   | Name of Owner (if different) JJSC Properties 1948       | Crown Point Dr. Mendota Heights, MN 55118  |
|   | Contact Person (if different) Karyn O'Brien             | Phone 952-288-8130   |
|   | Address / Location 1745 Grand Avenue St. Paul           |  |
| PROPERTY  | Legal Description The South One Hundred Twen            | ty-nine (S.129) feet of Lots One (1), Two (2) and  |
| LOCATION  | Three (3), Block Three (3), Elmer & Morrison's Re       |  |
|   | (attach additional sheet if necessary)                  |  |
| If you are request the modification is Section 61.502 of This CUP request light pole to include Current ordinance | Chapter   | the applicable standards and conditions. It is a conditional use, explain why odification of special conditions in ssary. It is a concrete foundation with a new steel erters, breaker box and hand hole at base of poles. |
| Said antennas have capacity in areas a  | e a service radius of approximately 500 to 1,000 feet a | nd are meant to provide focused coverage and   |
| A complete set of   | proposed plans accompanies this application.            | RECEIVED   |
|   |   | JAN 2 0 2017   |
|   | JAN 2 0 2017  | By: City of St Paul DSI  |
| ☑ Required site   | plan is attached  | *  |

Applicant's Signature

Date 1.16.17 City Agent 1-20-

## **Application Supplement**

RE: 65.310 (c)

Regarding the code provision, the reason small cell antennas cannot be accommodated on an existing freestanding pole or building within 1/2 mile and at least 45' in height is that the nature of small cells is to provide a much lower, street-level coverage and capacity to pedestrians and traffic. Anything higher or lower than the proposed heights would preclude Verizon from meeting the intended objective using this newer technology. The antennas are smaller and the radius/reach is much less than the larger-scale antennas for which most telecommunications codes were written. The radius for these antennas is only around 500', which is why we cannot affix to taller structures. They also need to be as close to the street as possible to alleviate the network bottlenecks that are caused by influx of traffic and pedestrians, especially during peak times. Therefore, the planned equipment cannot be accommodated at a height necessary to function reasonably.

Note that the gas station pole is existing but would need to be replaced and extended to meet RF objectives.

verizon

SITE NAME: MIN GRAND 3 STPL SC

SITE NUMBER: 20161387153

LOCATION CODE: 414776

SMALL CELL

SITE TYPE:

POLE TYPE: REPLACEMENT 30' LIGHT POLE

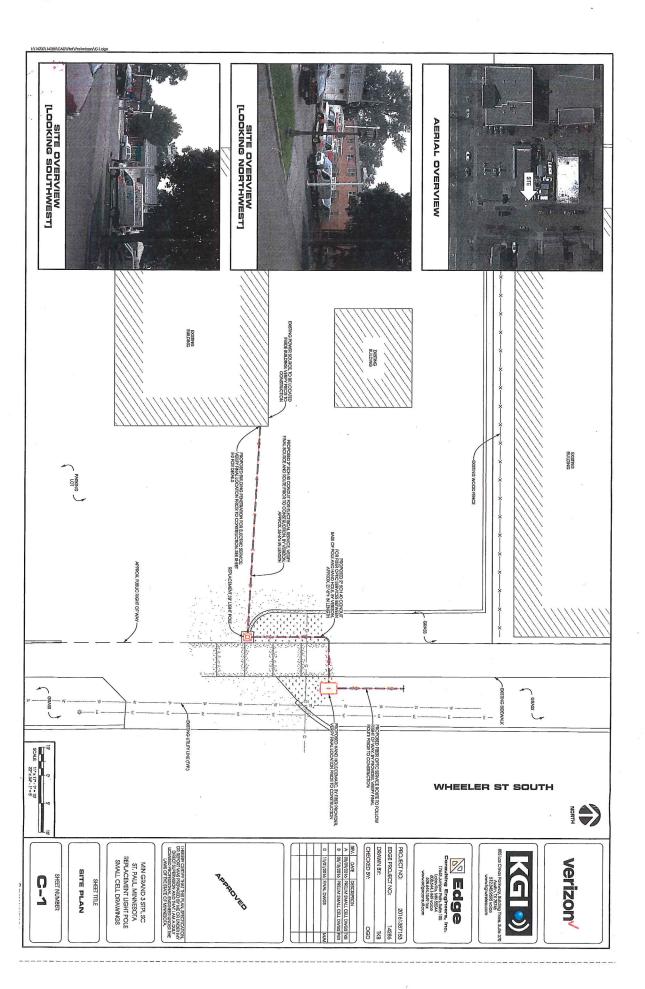
| Fiol\Preliminas\1-Lagn   |  |  |
|--|--|--|
|  | APPLICABLE CODES  ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES.  - 2012 NIERWATIONAL BUILDINGS CODE 2014 NATIONAL SECTION IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAL IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAL IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAL  LOCATION SCAN   | SITE INFORMATION  APPOZUMATE AORESS 1726 GRAND AIE ST ANIL MA SISTO  RAMSEY COUNTY  LATIDE & LONGINGE  LATI AF-50-5267W  GROUND ELEVATION 221 AMS.  (PER 1A CERTRICATE)  POLE HEIGHT: 30-07 TO.C.  MANIMUM APPURTENANCE HEIGHT: 33-07 A.G.L.   |
| The state of the s | LOCATIO  | AREA MAP   |
| ENGINEERING. COMPANY:  BOSE CONSULTING SPRIGHEERS INC.  175/51, UNREER PAH  SITE 105 MA SEADS  SOMMACTION MA SEADS  ENOMINETION MASSAGE  ENOMINETION MASSAGE | ALI OHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS  ALL OHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS  PROJECT DIRECTORY  IESSOR  UESSOR  UES |  |
| ENGINEER OF RECORD  EDGE CONSULTING ENGINEERS, INC. CONTACT: OTTO DINGETIDER III (PE # 49720 (MN))  PHONE GRANALIAGO  STRUCTURAL MANUSS COMPLETED BY EDGE CONSULTING ETGES, INC. CONTRACTOR TO REPORT STRUCTURAL REPORT IN ITS ENTIRETY, ANY DISCREPANCISCO DI DISAGREMENTS SETWEEN THE ERPORT   | UNLESS OTHERWISE NOTED  UNLESS OTHERWISE NOTED  UNLESS OTHERWISE NOTED  UNIVERSITY AND STREET ONLY OF HE REQUIREMENTS OALES  UN HE LURSCHICK HANNE AND ZONNEO FOR NAVA AND SUPPORT STREET OF HE AND STRING HER OF ANY DECRETANCES WERE STEET OF CAPETAINS AND DESIRING MERSON CONTENTS OF STRONG HER SAME RESPONSITE MORE TO PERFOAMEN ANY WORK OR BE RESPONSITE FOR THE SAME.  UNDERFORMED OF UNIVERSITY AND THE SAME.  | NO: SHEET TITLE  11 ILE SHEET APOLICIONA OIL SHEAN ALL S |
| SI: PAUL. MINNESOTA REPLACEMENT LIGHT POLE SMALL CELL DRAWNINGS SHEET TITLE SHEET TO SHEET NUMBER SHEET NUMBER   | OPECATE STONAL  FINGINGER  OFFICE STONAL  FINGINGER  OFFICE STONAL  FINGINGER  OFFICE STONAL  FINGINGER  OFFICE STONAL  OFFICE | PROJECTINO: 20161397153     PROJECTINO: 1/286     EDGE PROJECTINO: 1/286     DRAWN BY: 1/6     CHECKED BY: 0GD     CHECKED BY: 0GD     CHECKED BY: 0GD     A   BINGSPAN     A   BINGSPAN     BINGSPAN    |

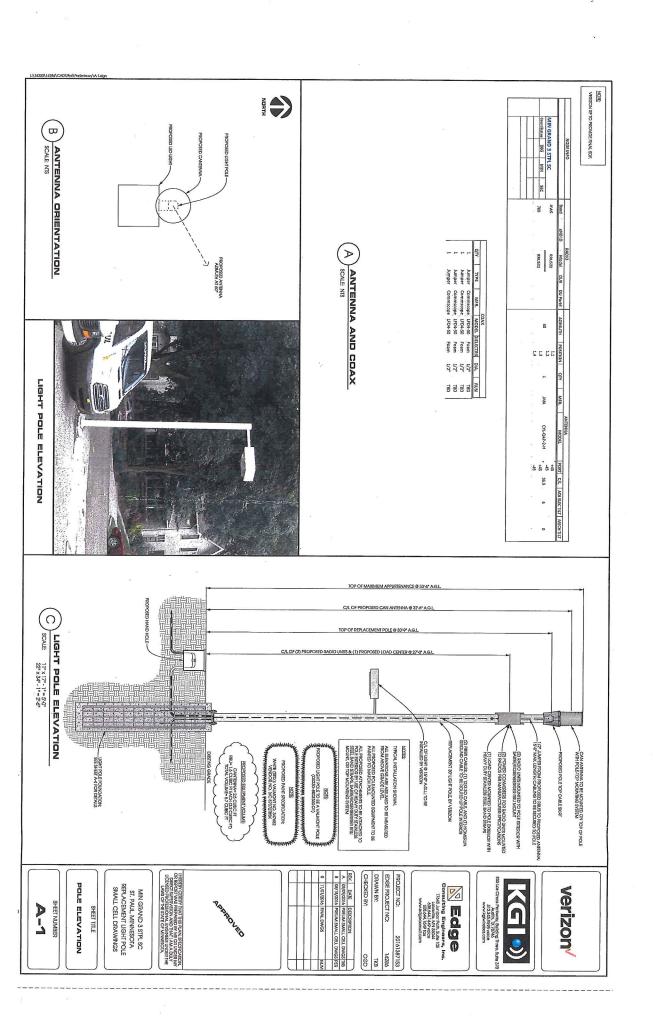


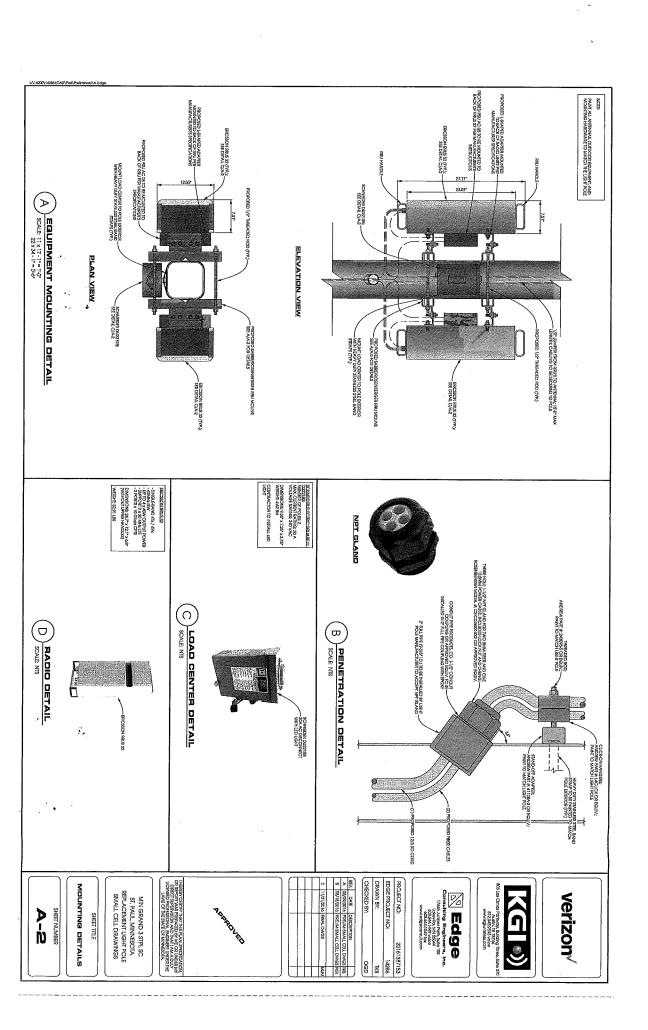




verizon









## **ELECTRICAL SPECIFICATIONS** mpedance, ohms ntermodulation (2x20w), IM3, dBc, Maximum solation Between Ports, dB, Minimum /SWR/Return Loss, dB, Maximum (Non-Duplexed) Electrical Down Tilt ency Band, MHz 2x 1695-2180 0.

## ximum Power Per Connector, CW (w) 1.5:1/14.0 28 -153 50 125

## Radome Material Wind Survival Front Wind Load Connector Location GPS Connector Torque **GPS Connector Type** Antenna RF Connector Torque Intenna RF Connector Type MECHANICAL SPECIFICATIONS 0.91 sq-ft (c=2) @ 100mph 45.9 lbf (204.18N) @100mph Mini-DIN 88.5 lbf-in (10 Nm) Mini DIN Female (4.1-9.5 per IEC 61169-4) DIN 220-265 lbf-in (23-30 N-m) 7/16 DIN Female 24.2/15.1 in (615/384 mm) 150 mph (241 km/h)

All Specifications are subject to change.
Rafer to www.jmawireless.com for the most current information
2/24/2016
CYU-QAP-2\_V1

+1 315-431-7100 | custom

www.jmawireless.com vice@jmawireless.com



# ConcealFeb

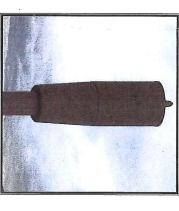
WWW.CONCEALFAB.COM PH:719,599,3400 SALES@CONCEALFAB.COM

CONCEANT OF THE PROPERTY OF THE PROPE

œ ANTENNA MOUNTING DETAIL
SCALE NIS

# CONCEALFAB® UNIVERSAL POLE-TOP MOUNTING SYSTEM Configurable for all Major Quasi-Omni Antennas

**verizon** 

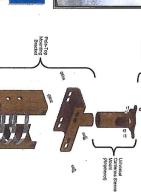


Single-Bolt
Adapter Plate
(CSS, Kethrein,
Galtronics)

as Parkway, Building The Austin, TX 78746 512,345,9595 valce www.kgliwireless.com

9







CHECKED BY: EDGE PROJECT NO:

DRAWN BY: PROJECT NO:

20161387153

Consulting Engineers, Inc.
17645 Juniper Poth. Suite 105
Lokeville, MN SSQ44
686441549 voice
688441549 fox
www.sedgeconsult.com M Edge

ODAS and Small Cell Solutions



General Features:





MIN GRAND 3 STPL SC ST. PAUL MINNESOTA REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

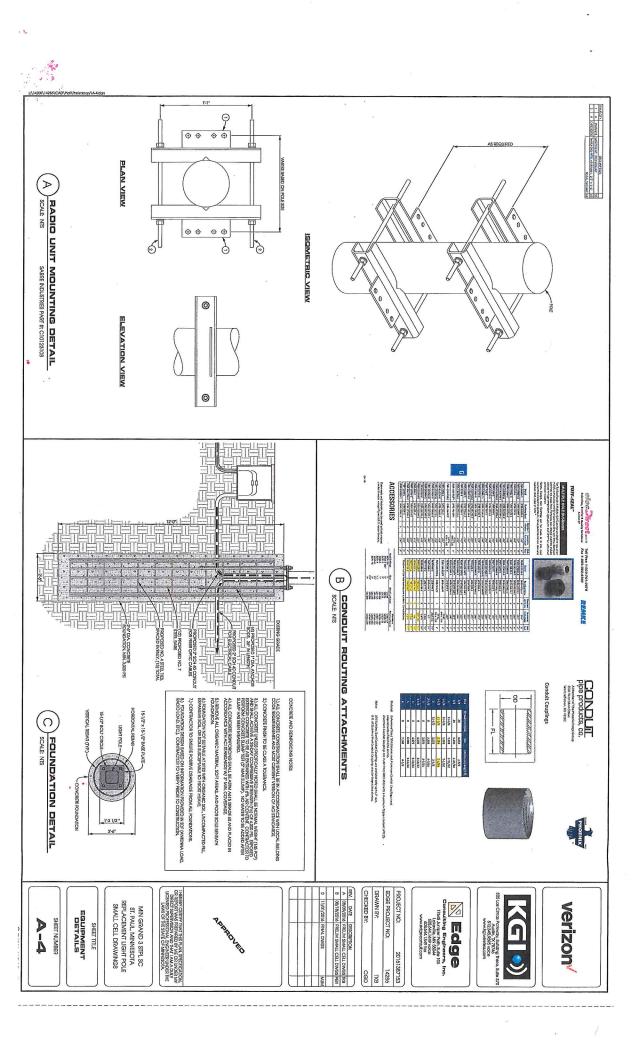
HEREBY CERTIFY THAT THIS PLAN, SPECHCATION, OR REPORT WAS PREPARED BY ME OR UNDER NAY DIRECT SUPERYSION AND THAT I AM A DILLY UCENSED PROFESSIONAL ENGINEER UNDER THE LAWIS OF THE STATE OF MINNESOTA.

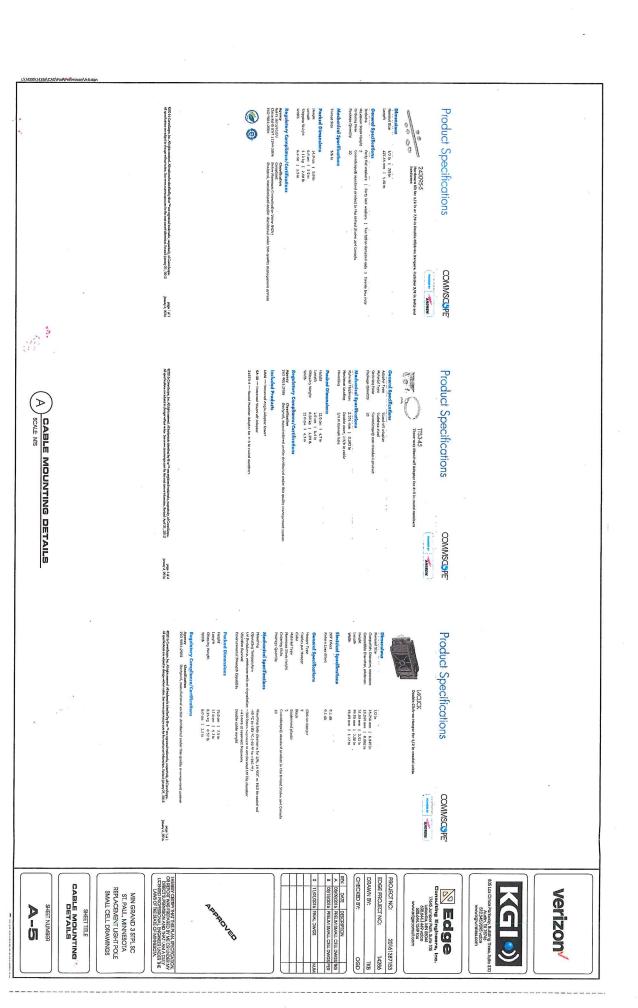
SHEET TITLE

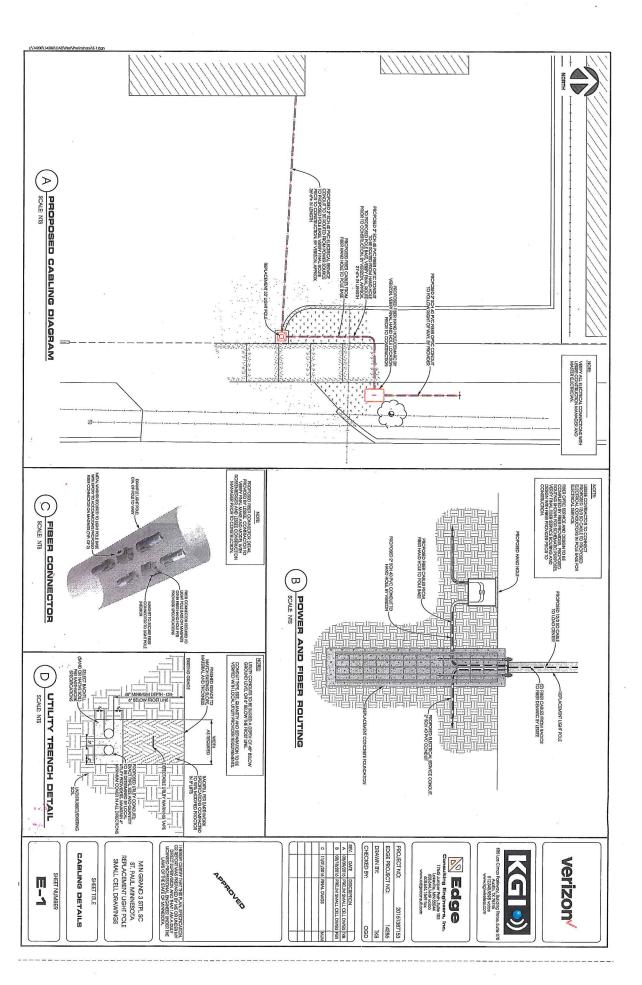
ANTENNA DETAILS

SHEET NUMBER

A-3







## GENERAL ELECTRICAL NOTES

1, SUBMITAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.

COMINACIDE SYALL REFICIAN ALL NERIFICITION COBERVATION (TEST, AND BAMAIE WOOK REIGO TO THE CRIDERING OF THE CRITCHAL GUIRHIGHT MON THE ACTUAL COMERITURITION CONTRIACTIONS SHALL ISSUE A WAITTEN NOTICE OF ALL RIVINGS TO , ARCHITECT LISTING ALL MALFACTIONS, FALLY EQUIPMENT AND DISCREPANCES.

NEACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULLBOX, J BOX SWITCH IOX, ETC, IN COMPUNICE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE. HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.

AMERIALAND EURRAFIT HALL ER REM AND H REIRECT CONDITION WHEN INSILLED AND SALL EIGHTH EIGT AND CHE KAME MANAFORDER THOUGHOUT OB LOCH CLASS CORDLY OF EQUIPMENT, MARIES SALECT TO NO APPRODE DE M'E MUCHAMETER LAGRANDRY AND SALL EIGHTHE SECTION LIKEL "E-MREE SALECT TO PROQUE, MUCHAM-SALECT MAN METERAL SHALL EE MANAFACHED IN ACCOCIONACE WITH APPLICABLE SHANDAGAS HED MY ANGLIENCH AND METERAL SHALL EE MANAFACHED IN ACCOCIONACE WITH APPLICABLE SHANDAGAS racior s'all provide lador, materiae, insurance, egipinent, installation, construction toos. Divinon, fic., cya, a competer, o processu, o person entracezo i hroughout, and as indicated on Igs., as specified heren and/or as otherwise required.

CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES ND O.S.H.A. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS

COMPLETE JOS SMALL BE GLADANITED TORA PERIOD OF CME (1) YEAR AFER THE DATE OF JOB ACCEPTANCE BY OMNER Y WORK, MATEMAL OR GUJHAMENT (CMUN TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT CNOE. YMMETRIA MOTIFICATION, AT THE EXPENSE OF THE CONTRACTIOR.

11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE

(3), ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC, SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION. 12. PROVIDE CONSTRUCTION ENGINEER WITH ONE SET OF COMPLETE BLECTRICAL "AS INSTALLED" DRAWINGS AT THE "DOMPLETION OF THE LOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.

4. USET-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR.

5. ALL CONDUCTORS SHALL BE COPPER

6. ALL CIRCUIT BREAKERS, FUES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM HORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBLECTED, AND A MINIMUM OF 10,000 A.L.C.

17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWNISS.
18. RECEPTACIES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.

). PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING FIERE INDICATED ON THE DRAWINGS, WEATHEIPPROOF RECEPTACLES SHALL HAVE RACO (#80), 1/2" RAISED WORK COVERS, WRIE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNILESS CIFICALLY NOTED OTHERWISE ON DRAWINGS.

ERER SOCKET AMPRES, VOLTAGE, NUMER OF PHASES SHALL EE AS NOTED ON THE DRAWINGS, MANUFACTURED BY NED COMPANY OR APPOOLED EXUL. IF HOST FACULTITY REQUIRES THE NEW SERVICE TO BE SUB-METERED FROM THE ING-SERVICE SUB-METER SHALL BE OF THE TOX OR TOM TYPE.

SE CONDITE SALLE ESPANSIVA PACIBIED INN 28/10/ESPANSIVA BANDE INDIVIDUAL SERVICE CONDITIS SALLE ESPANSIVA DA DIRECTION SERVICE CONDITIS SALLE ESPANSIVA DA DIRECTION SERVICE CONDITIS SALLE ELL LA MEL ACCIONADO MEDICA SALO DE CONDITIS DA CONTRE CONT

B, INTERIOR CONDUTTS SHALL BE ELECTRICAL METALLIC TUBING HAVING UL. L'ABEL, FITTINGS SHALL BE GLAND RING :SSION TYPE.

C, REDIBLE METALLIC CONDUIT SHALL HAVE LLL LISTED L'ABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS HALL BE L'AKE" OR "SQUEEZE" TYPE, SEAL TIGHT LENGTH.

27. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK 26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.

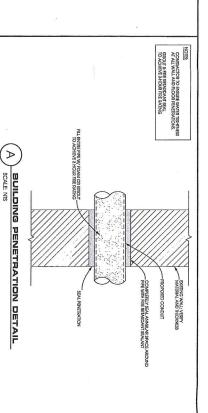
IETRATIONS IN FRE RAITED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION 712, PENETRATIONS-NTONAL BUILDING CODE (BC)

DREUMS OR CORNIG HOLEN CONCIDER WALLS OR DECKS, WHITER FOIT PARTIEMS OR A MICHORING PREPCIES, JUINET HANT TRADIONS OR REMEMORANGE BLANDT RE SEARCHED DO BY A PROPORING METHODS AND GOMPMENT KANN OTHER DRACE) THAT CHA ACCURATEN LOCATE THEM, TENDONS OR RENFORCING MUST NOT BE DRULED, CUT OR MAGED DREED ANY CONDUSTANCES.

 CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF BOTH TEMPORARY AND PERMANENT POWER TO THE STIE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR. PAPA COMPETION OF WORK CONDUCT CONTINUITY, SHORT CIRCUIT, AND PALL POTENTIAL GROUNDING TESS FOR COVAL, SUBJIT TEST REPORTS TO CONSTRUCTION REPORTER, CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND IF WORK IN A COMPLETE AND UNDAMAGED CONDITION.

12. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS NECESSARY TO COMPLETE THE INSTALLATION OF ANY TOWER JOHNING SYSTEM DESCRIBED IN THE RFQ.

ELECTRICAL NOTES



**Verizon** 



REV. DATE DESCRIPTION
A 08/09/2016 PRELIM SMALL C
B 08/18/2016 PRELIM SMALL C CHECKED BY: DRAWN BY: EDGE PROJECT NO: PROJECT NO:

Econsulting Engineers, Inc., 1765 Anipar Pent, Sulva US SULSAL 1949 Year SULSAL 1949 Year Www.scoppoornult.com

20161387153

ss Parkway, Bullding Three, Sulte 3 Austin, TX 78746 512345,9595 valce www.kglwireless.com

|                      |       |    | PAGAMENT TON        | _   |       |            |              | _   |         |       |
|----------------------|-------|----|---------------------|-----|-------|------------|--------------|-----|---------|-------|
|                      | 11.21 | 12 | 15<br>1833          |     |       |            |              | -   |         |       |
|                      |       | 3  | Ed. Louisle         | _   |       | N.         |              | _   |         | SED C |
| Dagazara Degra       | 44    | 8  |                     | 늄   |       | ě          | Jane         | _   |         | 40mb  |
| Dichamber 1000       | 184   | 2  | Patricipalina print | 20  |       | ipeit      | 3000         | No. |         | Some  |
| Shipped repositivity |       |    | Shippedindakd       | 777 | DEF   | 12 fort    | <b>YOU</b> F | _   | the ers | भ्यास |
|                      |       |    | Kinemay             | Ļ   | Hayes | San Degree |              | 2   | 064-011 |       |

| CONTRACTOR  |  | teck config   | 16 Dables  | Sayeta                    | MALE AGAI                    | Sippedmilded        |
|--|--|---|--|---------------------------|------------------------------|---------------------|
| Indian parter (explicit communication control of the control of th |  | tock configurations are offered for shorter land times: | Darbista (COL ISL 4587)<br>Historicano, is 15 nauerophyte (V | Segetar (IDI, JTZ, 2476)* | Milliant had worth Kenty In- | 2                   |
| 2 2 2 2 2 2 2 3 2 3  | 3  | P B   | ğ  | 3                         | IM                           |                     |
| HALF GARRY AND TOTAL OF THE PARTY OF THE PAR | Steel Bull Runder  | erer lead times:  | Shed welleddoweg   | Died whitelanus           | Material H-Manuary           |                     |
| Lead 1981) i bazai (il bestia) (ilik)  (th. 2016) i bazai (ilik) bazai (ilik)  (th. 2016) i bazai delevizione  (this fix i bazai delevizione  (this fix i bazai delevizione  this fix i bazai delevizione  fix i ba | ALLEGIBLE  | ¥.  | BE SECTION   | INSPARA                   | (filtery)                    |                     |
| 4 - 1211 E   | 5  | A   | harieft an Thom<br>Humberheitelt                             | Dane.                     | Trans.                       |                     |
| Kezd 18(14) Paszd (Bayella (MA)  (20) Aleigay  (20) Aleiga | Accessories  India III and III |   |  | Patroph during?           | Freit, M. St. W. Car.        |                     |
| alita<br>opina<br>opina<br>alita   | tendra'  | -   |  | IN                        | S.                           | Ship                |
| 4 77 75 10   | -3<br>-3   | NOR S   |  | Hellen<br>Carriellen      | Meguri                       | Anterdospodes.      |
| Analdia as a state of the property of the state of the st | 2  | MCAI down   | DE LOS COLORS  | COURT                     | DACAG                        | CHESTO              |
| Trick! the suggests to set for an analysis of the Cycle for Trick and a 23.77 for Cycle for Trick and a 23.77 for Cycle for Cycle for Trick and a 23.77 for Cycle  |  |   | n n  | Market N                  | 3                            | Talban.             |
| West of the community o |  |   | GOING  | CONTRA                    | 04000                        | 90000               |
|  |  | TO STOVE OF STORY                                       | Fig. 1   | Sample Samuel             | lonestian                    | Property day (page) |



LIGHT SPECIFICATION
SCALE NIS

LIGHTING.



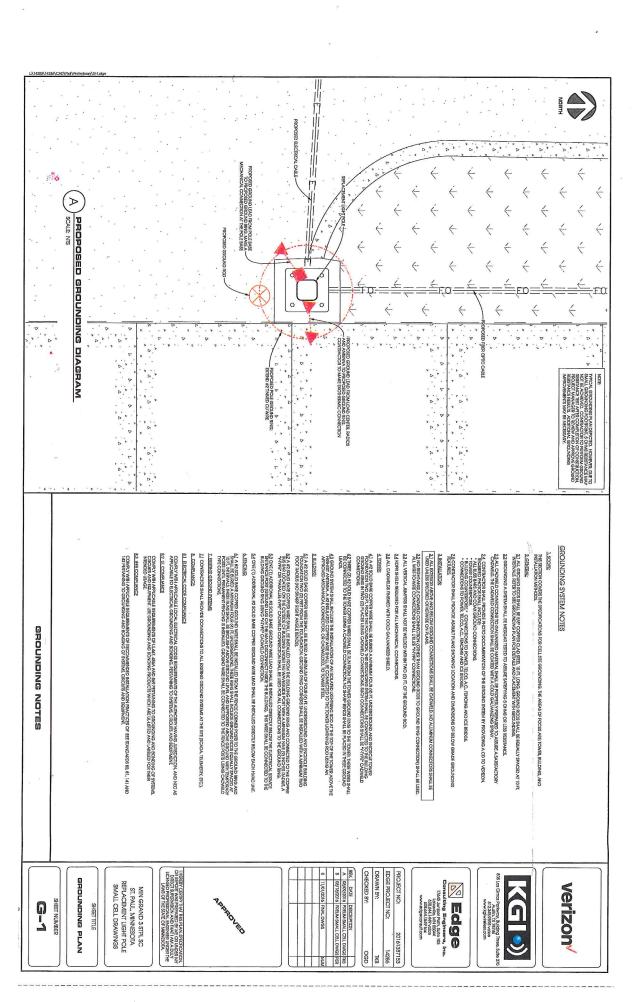
MIN GRAND 3 STPL SC ST. PAUL, MINNESOTA REPLACEMENT LIGHT POLE SMALL CELL DRAWINGS

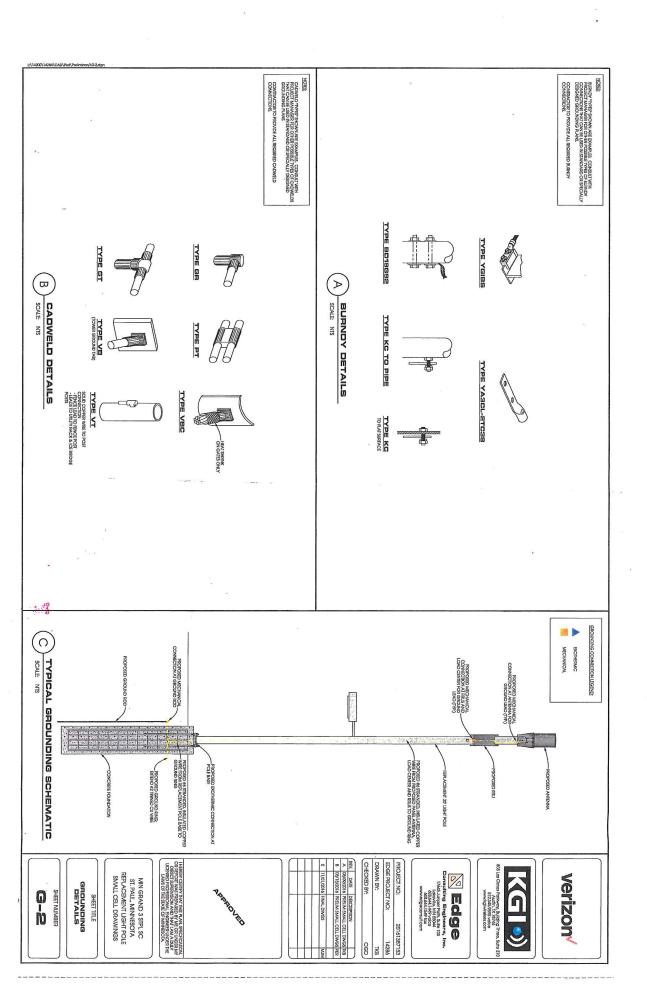
ELECTRICAL NOTES

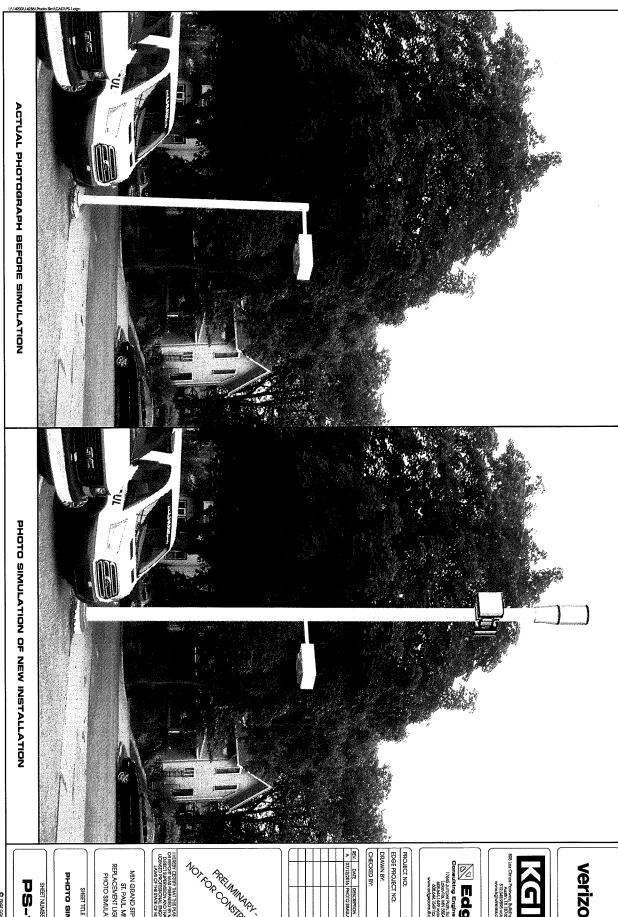
SHEET TITLE

M M

SHEET NUMBER







PS-1

PHOTO SIM 1

MIN GRAND STPL SC3 ST. PAUL MN REPLACEMENT LIGHT POLE PHOTO SIMULATION

NOT CORTEMINARY CONSTRUCTION

A 07/12/2016 PHOTO SIMULATION

Consulting Engineers, Inc.
17645 Juniper Parts, Suits 105
Lidentis, Mr. 8364
20044 1697 cs.
www.adgeconsult.com







(iii) Comparable equipment from preexisting wireless deployments on the structure;

(3) The deployment will involve no new ground disturbance; and

- (4) The deployment would otherwise require the preparation of an EA under paragraph (a)(4)(i) of this section solely because of the age of the structure; or
- (B) The mounting of antennas (including associated equipment such as wiring, cabling, cabinets, or backuppower) on buildings or other non-tower structures where the deployment meets the following conditions:

(1) There is an existing antenna on the

building or structure;

- (2) One of the following criteria is met:
- (i) Non-Visible Antennas. The new antenna is not visible from any adjacent streets or surrounding public spaces and is added in the same vicinity as a preexisting antenna;

(ii) Visible Replacement Antennas.
The new antenna is visible from adjacent streets or surrounding public spaces, provided that

(A) It is a replacement for a pre-

existing antenna,

- (B) The new antenna will be located in the same vicinity as the pre-existing antenna,
- (C) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,
- (D) The new antenna is not more than 3 feet larger in height or width (including all protuberances) than the pre-existing antenna, and

(E) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces; or

- (iii) Other Visible Antennas. The new antenna is visible from adjacent streets or surrounding public spaces, provided that
- (A) It is located in the same vicinity as a pre-existing antenna,
- (B) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,
- (C) The pre-existing antenna was not deployed pursuant to the exclusion in this subsection

(§ 1.1307(a)(4)(ii)(B)(2)(iii)),

- (D) The new antenna is not more than three feet larger in height or width (including all protuberances) than the pre-existing antenna, and
- (E) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces;
- (3) The new antenna complies with all zoning conditions and historic preservation conditions applicable to existing antennas in the same vicinity

that directly mitigate or prevent effects, such as camouflage or concealment requirements;

- (4) The deployment of the new antenna involves no new ground disturbance; and
- (5) The deployment would otherwise require the preparation of an EA under paragraph (a)(4) of this section solely because of the age of the structure.

Note to paragraph (a)(4)(ii): A non-visible new antenna is in the "same vicinity" as a pre-existing antenna if it will be collocated on the same rooftop, façade or other surface. A visible new antenna is in the "same vicinity" as a pre-existing antenna if it is on the same rooftop, façade, or other surface and the centerpoint of the new antenna is within ten feet of the centerpoint of the pre-existing antenna. A deployment causes no new ground disturbance when the depth and width of previous disturbance exceeds the proposed construction depth and width by at least two feet.

■ 4. Add Subpart CC to part 1 to read as follows:

## Subpart CC—State and Local Review of Applications for Wireless Service Facility Modification

## §1.40001 Wireless Facility Modifications.

- (a) Purpose. These rules implement section 6409 of the Spectrum Act (codified at 47 U.S.C. 1455), which requires a State or local government to approve any eligible facilities request for a modification of an existing tower or base station that does not substantially change the physical dimensions of such tower or base station.
- (b) *Definitions*. Terms used in this section have the following meanings.
- (1) Base station. A structure or equipment at a fixed location that enables Commission-licensed or authorized wireless communications between user equipment and a communications network. The term does not encompass a tower as defined in this subpart or any equipment associated with a tower.
- (i) The term includes, but is not limited to, equipment associated with wireless communications services such as private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.
- (ii) The term includes, but is not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration (including Distributed Antenna Systems and small-cell networks).

- (iii) The term includes any structure other than a tower that, at the time the relevant application is filed with the State or local government under this section, supports or houses equipment described in paragraphs (b)(1)(i) through (ii) of this section that has been reviewed and approved under the applicable zoning or siting process, or under another State or local regulatory review process, even if the structure was not built for the sole or primary purpose of providing such support.
- (iv) The term does not include any structure that, at the time the relevant application is filed with the State or local government under this section, does not support or house equipment described in paragraphs (b)(1)(i)—(ii) of this section.
- (2) Collocation. The mounting or installation of transmission equipment on an eligible support structure for the purpose of transmitting and/or receiving radio frequency signals for communications purposes.
- (3) Eligible facilities request. Any request for modification of an existing tower or base station that does not substantially change the physical dimensions of such tower or base station, involving:
- (i) Collocation of new transmission equipment;
- (ii) Removal of transmission equipment; or
- (iii) Replacement of transmission equipment.
- (4) Eligible support structure. Any tower or base station as defined in this section, provided that it is existing at the time the relevant application is filed with the State or local government under this section.
- (5) Existing. A constructed tower or base station is existing for purposes of this section if it has been reviewed and approved under the applicable zoning or siting process, or under another State or local regulatory review process, provided that a tower that has not been reviewed and approved because it was not in a zoned area when it was built, but was lawfully constructed, is existing for purposes of this definition.
- (6) Site. For towers other than towers in the public rights-of-way, the current boundaries of the leased or owned property surrounding the tower and any access or utility easements currently related to the site, and, for other eligible support structures, further restricted to that area in proximity to the structure and to other transmission equipment already deployed on the ground.
- (7) Substantial change. A modification substantially changes the physical dimensions of an eligible

support structure if it meets any of the

following criteria:

(i) For towers other than towers in the public rights-of-way, it increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than 10% or more than ten feet,

whichever is greater;

(A) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the tower or base station, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum

(ii) For towers other than towers in the public rights-of-way, it involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for other eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure

by more than six feet;

(iii) For any eligible support structure, it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for towers in the public rights-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure;

(iv) It entails any excavation or deployment outside the current site;

(v) It would defeat the concealment elements of the eligible support

structure: or

(vi) It does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure or base station equipment, provided however that this limitation does not apply to any modification that is non-compliant only in a manner that would not exceed the thresholds identified in § 1.40001(b)(7)(i) through (iv).

- (8) Transmission equipment. Equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, and regular and backup power supply. The term includes equipment associated with wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.
- (9) Tower. Any structure built for the sole or primary purpose of supporting any Commission-licensed or authorized antennas and their associated facilities, including structures that are constructed for wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul, and the associated site.
- (c) Review of applications. A State or local government may not deny and shall approve any eligible facilities request for modification of an eligible support structure that does not substantially change the physical dimensions of such structure.
- (1) Documentation requirement for review. When an applicant asserts in writing that a request for modification is covered by this section, a State or local government may require the applicant to provide documentation or information only to the extent reasonably related to determining whether the request meets the requirements of this section. A State or local government may not require an applicant to submit any other documentation, including but not limited to documentation intended to illustrate the need for such wireless facilities or to justify the business decision to modify such wireless facilities.
- (2) Timeframe for review. Within 60 days of the date on which an applicant submits a request seeking approval under this section, the State or local government shall approve the application unless it determines that the application is not covered by this
- (3) Tolling of the timeframe for review. The 60-day period begins to run when the application is filed, and may be tolled only by mutual agreement or in cases where the reviewing State or local government determines that the application is incomplete. The timeframe for review is not tolled by a

moratorium on the review of applications.

(i) To toll the timeframe for incompleteness, the reviewing State or local government must provide written notice to the applicant within 30 days of receipt of the application, clearly and specifically delineating all missing documents or information. Such delineated information is limited to documents or information meeting the standard under paragraph (c)(1) of this section.

(ii) The timeframe for review begins running again when the applicant makes a supplemental submission in response to the State or local government's notice of incompleteness.

(iii) Following a supplemental submission, the State or local government will have 10 days to notify the applicant that the supplemental submission did not provide the information identified in the original notice delineating missing information. The timeframe is tolled in the case of second or subsequent notices pursuant to the procedures identified in this paragraph (c)(3). Second or subsequent notices of incompleteness may not specify missing documents or information that were not delineated in the original notice of incompleteness.

(4) Failure to act. In the event the reviewing State or local government fails to approve or deny a request seeking approval under this section within the timeframe for review (accounting for any tolling), the request shall be deemed granted. The deemed grant does not become effective until the applicant notifies the applicable reviewing authority in writing after the review period has expired (accounting for any tolling) that the application has been deemed granted.

(5) Remedies. Applicants and reviewing authorities may bring claims related to Section 6409(a) to any court of competent jurisdiction.

### PART 17—CONSTRUCTION. MARKING, AND LIGHTING OF **ANTENNA STRUCTURES**

■ 5. The authority citation for part 17 continues to read as follows:

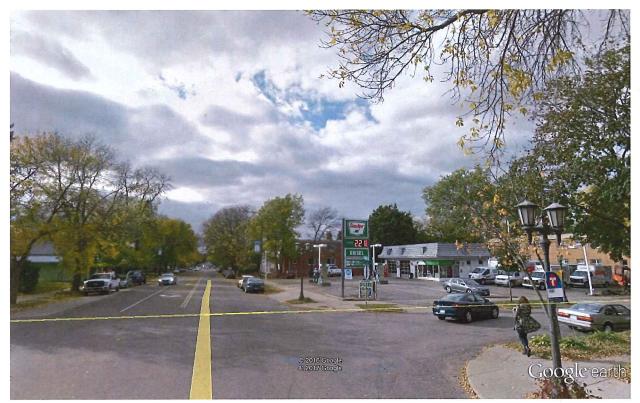
Authority: Sections 4, 303, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply sections 301, 309, 48 Stat. 1081, 1085 as amended; 47 U.S.C. 301, 309.

■ 6. Amend § 17.4 by revising paragraphs (c)(1)(v) and (c)(1)(vi), and adding paragraph (c)(1)(vii) to read as follows:

## § 17.4 Antenna structure registration.

(c) \* \* \*

## Staff-provided Streetview Photos



Facing west



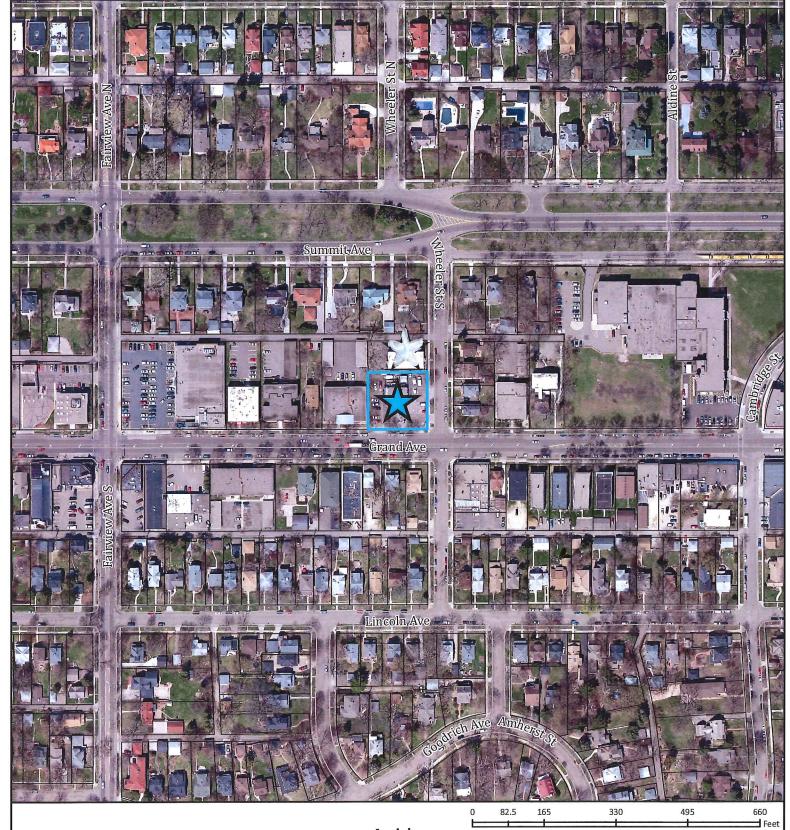
Facing east



Facing north



Facing south



FILE NAME: Verizon Wireless

**Aerial** 

Subject Parcels

APPLICATION TYPE: CUP

FILE #: <u>17-006697</u> DATE: <u>1/26/2017</u>

PLANNING DISTRICT: 14

ZONING PANEL: 13

Saint Paul Department of Planning and Economic Development and Ramsey County



