

ZONING COMMITTEE STAFF REPORT

1. **FILE NAME:** Verizon Wireless **FILE #** 17-019-449
 2. **APPLICANT:** Verizon Wireless **HEARING DATE:** March 30, 2017
 3. **TYPE OF APPLICATION:** Conditional Use Permit
 4. **LOCATION:** 300 Hamline Ave N, Concordia College Campus
 5. **PIN & LEGAL DESCRIPTION:** 342923430001, Concordia College Campus Subj To Sewer Esmt & Hwy; Blk A
 6. **PLANNING DISTRICT:** 13 **PRESENT ZONING:** RT1
 7. **ZONING CODE REFERENCE:** §65.310; §61.501; §66.231
 8. **STAFF REPORT DATE:** March 23, 2017 **BY:** Bill Dermody
 9. **DATE RECEIVED:** March 14, 2017 **60-DAY DEADLINE FOR ACTION:** May 13, 2017
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- A. **PURPOSE:** Conditional use permit for panel cell antennas on a light pole (26' 8" total height) and rooftop panel cell antennas on Buetow Music Center
- B. **PARCEL SIZE:** 16.26 acres
- C. **EXISTING LAND USE:** University campus
- D. **SURROUNDING LAND USE:**
Park (Dunning Sports Complex) to the southeast, and university campus in other directions.
- 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; §66.231 provides dimensional standards for the RT1 two family district.
- F. **HISTORY/DISCUSSION:** There is no recent zoning history for the site.
- G. **DISTRICT COUNCIL RECOMMENDATION:** As of this writing, the District 13 Council has not provided a recommendation.
- H. **FINDINGS:**
 1. The application requests conditional use permit approval to allow installation of four sets of cellular telephone antennas and associated equipment on the Concordia University campus: three sets of ballast-mounted panel antennas upon different portions of the roof of the Buetow Music Center at 300 Hamline Avenue N. (referred to as MIN BEARS in the application materials), and one set of close-mount style panel antennas upon a 26'-8" high replacement light pole near the Center for Hmong Studies building at 1245 Carroll Avenue (referred to as MIN CONCORDIA). The Buetow Music Center's height to top of parapet varies, being generally 15' to 20' high in the areas proposed for antennas, and 33'-8" high in another portion. The tops of the proposed antennas on the Buetow Music Center are approximately 6' above the parapet heights, for total heights from grade of approximately 21' to 26'.
 2. §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 the light pole in 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; or (applied to the rooftop installations) a height increase of 10 feet above the building height or a protrusion from the building of more than six 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:*
- i. *The planned equipment would exceed the structural capacity of the existing pole or structure.*
 - ii. *The planned equipment would cause interference with other existing or planned equipment on the pole or structure.*
 - iii. *The planned equipment cannot be accommodated at a height necessary to function reasonably.*
 - iv. *The owner of the existing pole, structure or building is unwilling to co-locate an antenna.*
- This condition is met. The application states that the small cell antennas need to be located near the street level, rather than on taller buildings, in order function reasonably given the technology and the coverage objectives.
- 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 26'-8" high pole plus future additions allowed by 47 CFR §1.4.0001 would equal 46'-8" plus antenna height. (This condition does not apply to the rooftop installations.)*
 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 is met. The minimum front yard setback in the RT1 district is 25'. The nearest residential building to the light pole installation is a dormitory approximately 95' to the northwest, as compared to a height of 46'-8" plus antenna height for the proposal plus future additions allowed by 47 CFR §1.4.0001. (This condition does not apply to the rooftop installations.)*
 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. Given the institutional setting and distance from the street and non-university residential uses, this condition can be met so long as future additions are required to have a close-mount design with dark coloration matching the rest of the pole, such as proposed by the subject application. (This condition does not apply to the rooftop installations.)*
 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 is an institutional use property of 16.26 acres. (This condition does not apply to the rooftop installations.)*

1. §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.
- (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 light pole antennas (including any future additions) is close-mount with dark coloration to match the pole such as proposed, and if the rooftop antennas (including any future additions) are set back from the roof edge by at least 10' and are colored to blend with the adjacent building walls' colors.
- (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 RT1 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 panel cell antennas on a light pole (26' 8" total height) and rooftop panel cell antennas on Buetow Music Center 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. The light pole-mounted antennas shall be of a close-mount design with dark coloration to match the pole, similar to that presented in the application materials.
 3. The rooftop antennas shall be set back at least 10' from the building edge and shall be colored to blend with the adjacent building walls' colors, such as dark brown or dark red in the portion of the building that is currently proposed for three sets of antennas and features red brick walls, or such as cream color for any future additions installed on the taller building portion with white or cream-colored brick walls.

Attachments

1. Application
2. Drawings & Photosimulations
3. 47 CFR §1.40001
4. Maps



CONDITIONAL USE PERMIT APPLICATION

Department of Planning and Economic Development
Zoning Section
1400 City Hall Annex
25 West Fourth Street
Saint Paul, MN 55102-1634
(651) 266-6589

Zoning office use only	
File #	17-019449
Fee	
Tentative Hearing Date	3-30-17

PD=13

34292343 0001

APPLICANT

Name Verizon Wireless
 Address 10801 Bush Lake Rd
 City Bloomington st. MN Zip 55438 Daytime Phone 952-288-8130
 Name of Owner (if different) Concordia College
 Contact Person (if different) Karyn O'Brien Phone 952-288-8130

PROPERTY LOCATION

Address / Location Multiple locations, see attached *Appx: 300 Hamline N. and*
 Legal Description Multiple descriptions, see attached 1245 Carroll AVE
 Current Zoning _____
 (attach additional sheet if necessary)

TYPE OF PERMIT: Application is hereby made for a Conditional Use Permit under provisions of Chapter _____, Section 65, Paragraph 130 of the Zoning Code.

SUPPORTING INFORMATION: Explain how the use will meet all of the applicable standards and conditions. If you are requesting modification of any special conditions or standards for a conditional use, explain why the modification is needed and how it meets the requirements for modification of special conditions in Section 61.502 of the Zoning Code. Attach additional sheets if necessary.

Please refer to attached cover letter which identifies adherence to Sec. 65.310 to the zoning code, as well as deviating from the standards of the provisions due to inapplicability of code for the proposed technology.

Required site plan is attached

Applicant's Signature *Karyn O'Brien* Date 2/7/2017 City Agent *pdh* 3/6/17



323 North Cedar Street
Chaska, MN 55318

February 24, 2017

City of Saint Paul
Department of Planning & Economic Development / Zoning Section
Attn: Bill Dermody
1400 City Hall Annex
25 West Fourth Street
Saint Paul, MN 55102-1634

RE: CUP Application for Verizon Wireless Small Cell Proposal – Concordia Campus

Dear Mr. Dermody,

Enclosed please find a Conditional Use Permit Application with applicable materials on behalf of Verizon Wireless. Verizon is planning to install three (3) small cell nodes located at the Concordia University. This application applies to the following locations below in **bold**:

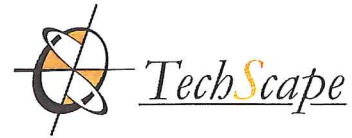
- **MIN CONCORDIA**
 - **Proposed replacement 26'-8" AGL light pole**
 - **Approximate address: 1245 Carroll Avenue North**
- **MIN BEARS**
 - **Proposed rooftop installation**
 - **Approximate address: 300 Hamline Avenue**
- **MIN BUENGER**
 - Proposed new 32'-3" AGL light pole
 - Approximate address: 199 Hamline Avenue North

Included with this application you will find two (2) copies of each of the following per node:

- Construction drawings
- Legal description with sketch plan
- Photo simulation
- Structural analysis

Also included with this packet are:

- Conditional Use Permit Application Form
- A check in the amount of \$800.00 for the CUP application fee, per the City's fee schedule.
- Two (2) copies of a letter of no adverse effect from Minnesota State Historic Preservation Office (MN SHPO)



323 North Cedar Street
Chaska, MN 55318

Regarding Sect. 65.310 (c) of the zoning code of ordinances which requires the applicant to demonstrate the proposed antennas cannot be accommodated on an existing freestanding pole or structure at least 45 feet in height and within ½ mile radius of proposed antennas, an explanation of circumstances is below:

The small cell antennas cannot be accommodated on an existing freestanding pole or building within 1/2 mile and at least 45 feet in height due to:

- The nature, purpose and function of small cells, which are to provide much lower, street-level coverage and capacity for pedestrians and traffic. Placing the antennas higher than an approximate 30-foot antenna centerline would preclude Verizon from meeting the intended objective using this newer technology.
- The antennas are smaller and the distance of their radius/reach is much smaller 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 or meet the ½ mile search area required by code—the code, once again, was written with larger-scale antennas in mind, which was the standard technology available at the time it was codified.
- The antennas must 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.
- Aside from the taller buildings on the college campus, we could not identify any existing structures at least 45 feet in height within a ½ mile radius that either a) exist and/or b) placed where needed to service intended areas. Therefore, the planned equipment cannot be accommodated at a height necessary to function reasonably.

My understanding is the above items suffice to complete the application, and if there is anything else needed to aid in review please contact me at your earliest convenience.

Very sincerely,

Karyn O'Brien
kobrien@techscapewireless.com
952.288.8130

SITE NAME: MIN CONCORDIA STPL SC
SITE NUMBER: 20161395580
LOCATION CODE: 415900
SITE TYPE: SMALL CELL
POLE TYPE: PROPOSED 25' LIGHT POLE

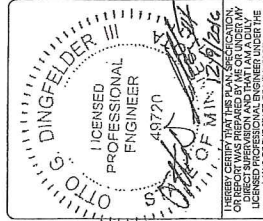


805 Lee Street Parkway, Building Three, Suite 370
 Austin, TX 78746
 512.424.1449
 www.kgi.com

Edge
 Consulting Engineers, Inc.
 17465 Judson Park, Suite 105
 Lakeville, MN 55044
 763.441.1449
 www.edgeconsulting.com

PROJECT NO: 20161395580
 EDGE PROJECT NO: 14978
 DRAWN BY: MUM
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION
A	10/1/2016	PRELIMINARY DRAWINGS (MUM)
B	10/20/2016	PRELIMINARY DRAWINGS (MUM)
0	11/07/2016	FINAL DWS
1	12/09/2016	FINAL DWS



MIN CONCORDIA STPL SC
 ST. PAUL, MN
 REPLACEMENT LIGHT POLE
 PRELIMINARY DRAWINGS

SHEET TITLE
TITLE SHEET & PROJECT SHEET

SHEET NUMBER
T-1

SHEET INDEX

NO:	SHEET TITLE
E1	TITLE SHEET & PROJECT DATA
C1	SITE PLAN
C2	REPLACEMENT OVER PLAN
A1	ROULEAU ELEVATION
A2	MOUNTING DETAILS
A3	ANTENNA DETAILS
A4	EQUIPMENT DETAILS
A5	CABLE MOUNTING DETAILS
E1	CABLEING DETAILS
E2	ELECTRICAL NOTES
G1	GROUNDING PLAN
G2	GROUNDING DETAILS

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE THE SITE IS LOCATED. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES. ENGINEER WILL BE RESPONSIBLE FOR THE SAME.

ENGINEER OF RECORD

EDGE CONSULTING ENGINEERS, INC.
 CONTACT: OTTO DINGFELDER III (PE # 49720) (MIN)
 PHONE: 663.644.1449

STRUCTURAL REVIEW

LIGHT POLE STRUCTURAL ANALYSIS COMPLETED BY EDGE CONSULTING ENGINEERS, INC.
 DATE: 07/26/2016
 CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.

PROJECT DESCRIPTION/SOW

- INSTALL (1) PROPOSED 25FT LIGHT POLE AND ASSOCIATED CONCRETE FOUNDATION
- INSTALLATION OF PANEL ANTENNAS
- INSTALLATION OF ERICSSON RRUS AND POWER CONVERTERS
- INSTALLATION OF HYBRID COUPLERS
- INSTALLATION OF HAND HOLE FOR FIBER AT POLE BASE, BY PROVIDER
- INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE (APPROX. 24") TO BE TRENCHED/DIRECTIONALLY BORED BELOW GRADE BY VERIZON
- INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND ROW (APPROX. 90") TO BE TRENCHED/DIRECTIONALLY BORED BELOW GRADE, BY PROVIDER
- INSTALLATION OF CONDUIT FOR ELECTRIC BETWEEN POLE BASE AND POWER SOURCE (APPROX. 37'-4") DIRECTIONALLY BORED BELOW GRADE, BY VERIZON
- INSTALLATION OF GROUND RING AROUND POLE FOUNDATION
- BUILDING PENETRATION REQUIRED FOR ELECTRICAL SERVICE
- ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

PROJECT DIRECTORY

LESSOR:
 CONCORDIA UNIVERSITY
 1601 BUSH LAKE RD
 ST. PAUL, MN 55104
 CONTACT: COURTNEY BEDNARZ
 PHONE: 952.946.4694

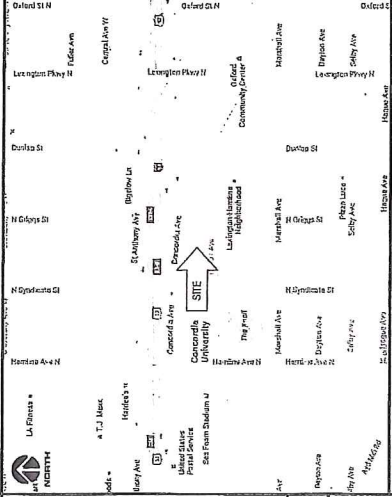
LESSOR:
 VERIZON WIRELESS
 1601 BUSH LAKE RD
 ST. PAUL, MN 55104
 CONTACT: COURTNEY BEDNARZ
 PHONE: 952.946.4694

ENGINEERING COMPANY:
 EDGE CONSULTING ENGINEERS, INC.
 17465 JUDSON PARK
 SUITE 105
 LAKEVILLE, MN 55044
 CONTACT: OTTO DINGFELDER III, P.E.
 PHONE: 663.644.1449

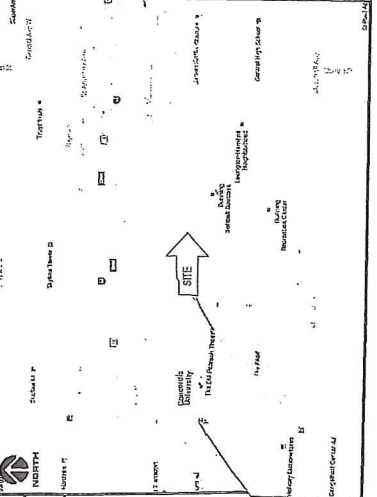
BE ENGINEER:
 VERIZON WIRELESS
 1601 BUSH LAKE RD
 ST. PAUL, MN 55104
 CONTACT: JOHN WILLIAMS
 PHONE: 663.644.1449

SITE ACQUISITION:
 KGI
 BIG LAS CIMAS PRWY
 SUITE 370
 AUSTIN, TX 78746
 CONTACT: KARYN O'BRIEN
 PHONE: 952.288.8130

AREA MAP



LOCATION MAP



SITE INFORMATION

APPROXIMATE ADDRESS:
 1246 CHARROLL AVENUE N
 ST. PAUL, MN 55104
 RAMSEY COUNTY

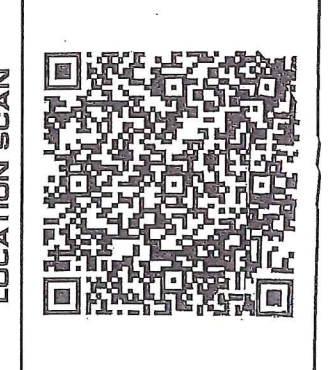
LATITUDE & LONGITUDE:
 LAT: 44°57'02.03"N
 LONG: 93°09'10.46"W
 GROUND ELEVATION: 933.07 AMSL
 (PER TA CERTIFICATE)

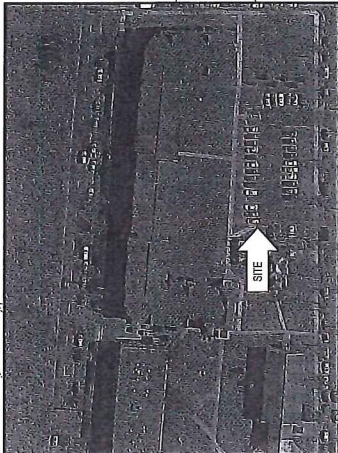
POLE HEIGHT:
 25' 0" T.O.C.
 MAXIMUM APPURTENANCE HEIGHT:
 26'-8" A.G.L.

APPLICABLE CODES

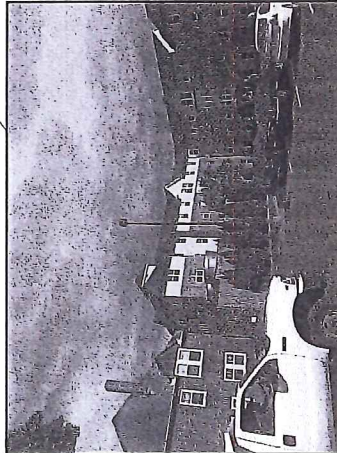
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
 -2012 INTERNATIONAL BUILDING CODE
 -2014 NATIONAL ELECTRIC CODE
 -TIA/EIA-222-G OR LATEST EDITION
 IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

LOCATION SCAN

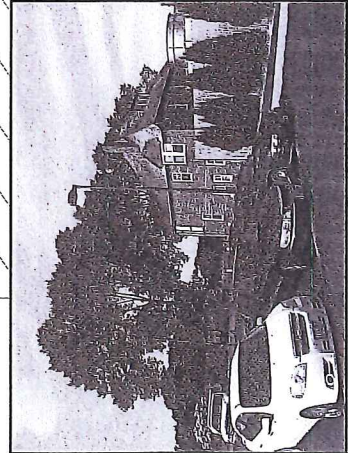




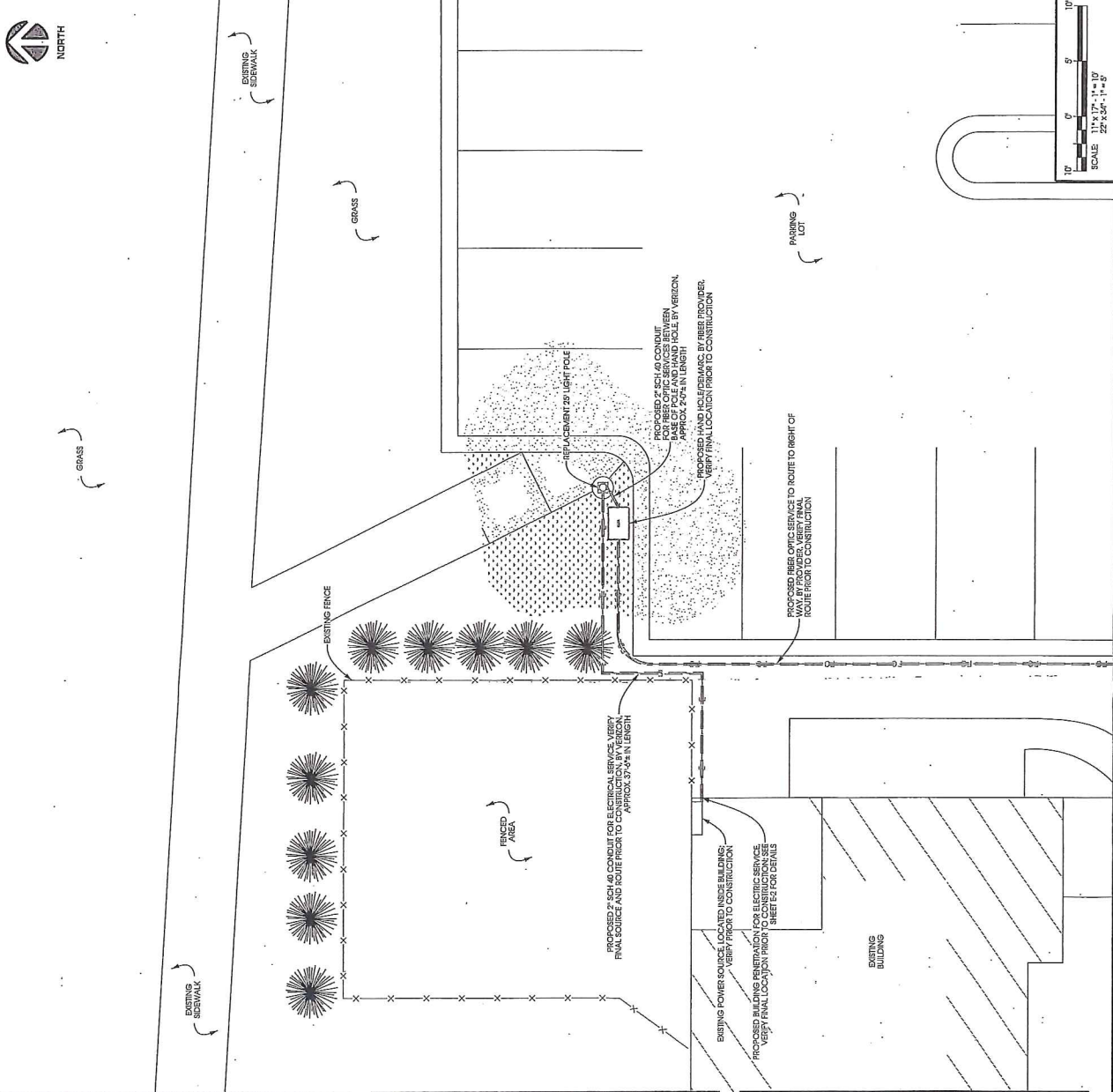
AERIAL OVERVIEW



**SITE OVERVIEW
[LOOKING NORTHWEST]**



**SITE OVERVIEW
[LOOKING SOUTHWEST]**



NORTH

GRASS

EXISTING
SIDEWALK

EXISTING
SIDEWALK

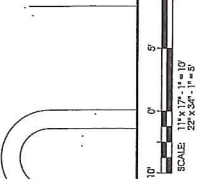
EXISTING FENCE

GRASS

FINISHED
AREA

PARKING
LOT

EXISTING
BUILDING



verizon



805 Lee Chad Postway, Building Three, Suite 370
Austin, TX 78746
512.443.1100
www.kgiwireless.com



Communications Engineering, Inc.
1746 Jupiter Pkwy, Suite 105
Lakewood, MN 55044
612.441.1500
www.edgeconsult.com

PROJECT NO: 201 01395580
EDGE PROJECT NO: 14078
DRAWN BY: MJM
CHECKED BY: OGD

REV.	DATE	DESCRIPTION	MJM
A	10/17/2016	PRELIMINARY DRAWINGS	MJM
B	10/20/2016	PRELIMINARY DRAWINGS	MJM
0	11/07/2016	FINAL DWGS	OGD
1	12/09/2016	FINAL DWGS	OGD

APPROVED

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN CONCORDIA STL SC
ST. PAUL, MN
REPLACEMENT LIGHT POLE
PRELIMINARY DRAWINGS

SHEET TITLE
**ENLARGED
SITE SKETCH**

SHEET NUMBER
C-2

verizon



835 US Other Paperway Blvd., Suite 370
 St. Paul, MN 55126
 612.346.9999 voice
 www.kgi.com

Edge
 Consulting Engineers, Inc.
 17445 Lake Ave. S.
 Minneapolis, MN 55425
 612.441.1499 voice
 612.441.1499 fax
 www.edgeconsulting.com

PROJECT NO: 20161395930
 EDGE PROJECT NO: 1427B
 DRAWN BY: MJM
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION
A	10/17/2014	PRELIMINARY DRAWINGS
B	10/28/2014	PRELIMINARY DRAWINGS
C	11/07/2014	FINAL DWSG
D	12/02/2014	FINAL DWSG

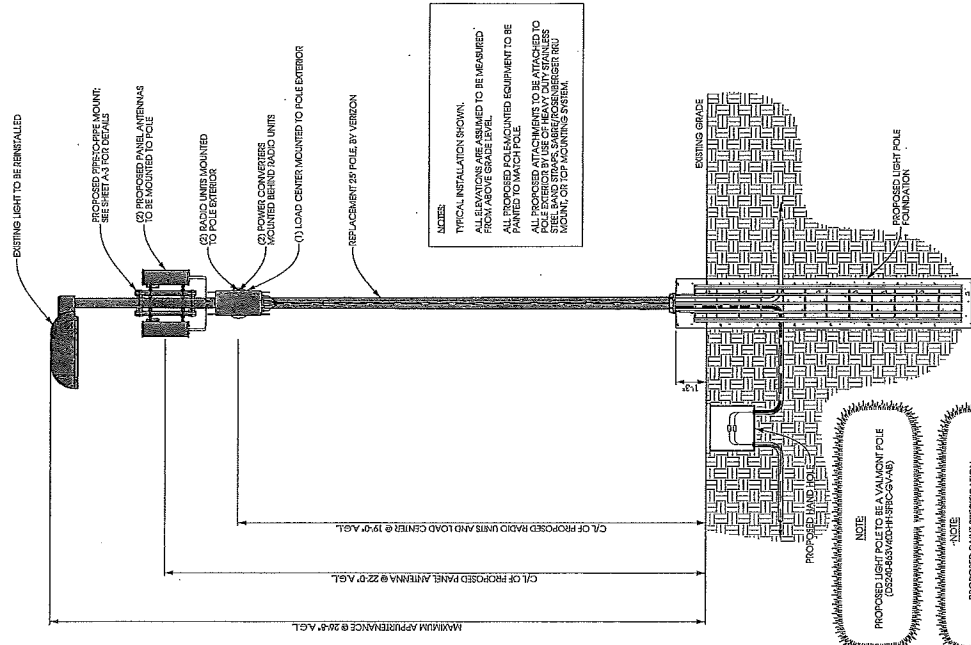
APPROVED

USER SHALL CARRY THE FULL SPECIFICATION, OBTAIN NECESSARY PERMITS AND SHALL BE A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN CONCORDIA STL SC
 ST PAUL MN
 REPLACEMENT LIGHT POLE
 PRELIMINARY DRAWINGS

SHEET TITLE
 POLE ELEVATION

SHEET NUMBER
A-1



NOTE
 PROPOSED LIGHT POLE TO BE A VALMONT POLE (C2324654/2014-HI-SPEC-21-48)

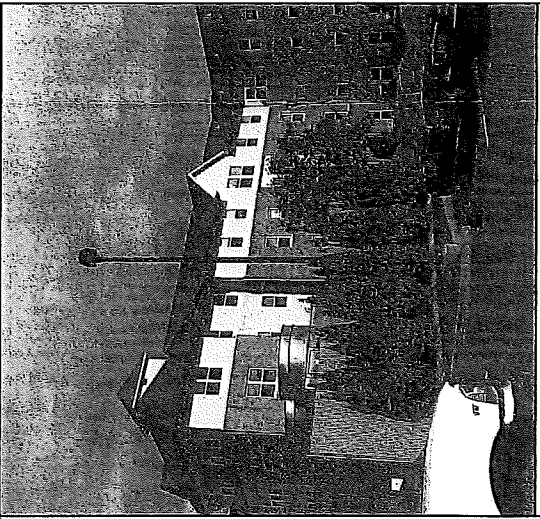
NOTE
 PROPOSED PAINT SPECIFICATION: BLACK (C2324654/2014-HI-SPEC-21-48) VERICOAT NO. V-C 870758K

C LIGHT POLE ELEVATION
 SCALE: 1 1/4" = 17'-1" = 50'
 2 1/4" = 34' - 1" = 2'-0"

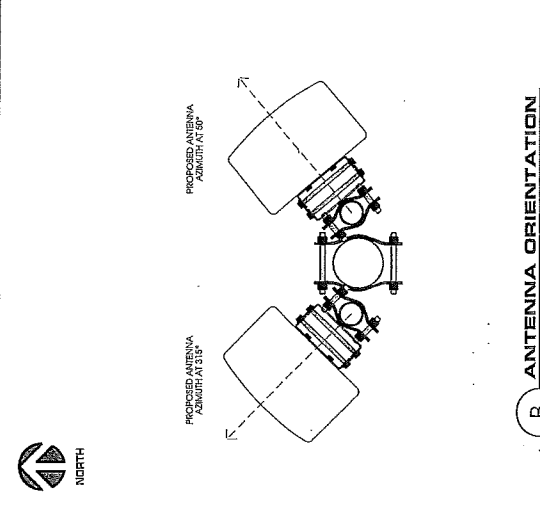
NODE INFO		RADIO		ANTENNA	
Band	Model	Height	Position	Qty	Model
AW5	CONCORDIA STL SC1 (CONCORDIA)	312.70	1.4	2	COMMISSCOPE
AW5	CONCORDIA STL SC1 (CONCORDIA)	2.07	1.4	2	COMMISSCOPE
AW5	CONCORDIA STL SC1 (CONCORDIA)	10.44	1.4	2	COMMISSCOPE

QTY	TYPE	MFR.	MODEL	DIRECTION	DA	SW
1	Antenna	Commisscope	LEP4-S0	Beam	1.74	TBD
1	Antenna	Commisscope	LEP4-S0	Beam	1.74	TBD
1	Antenna	Commisscope	LEP4-S0	Beam	1.74	TBD

A ANTENNA AND COAX
 SCALE: NTS



B ANTENNA ORIENTATION
 SCALE: NTS



B ANTENNA ORIENTATION
 SCALE: NTS



ACTUAL PHOTOGRAPH BEFORE SIMULATION

PHOTO SIMULATION OF NEW INSTALLATION



KGI
 855 Lee Street, Suite 200, St. Paul, MN 55108
 612.766.5000
 www.kgi.com

Edge
 Consulting Engineers, Inc.
 1745 University Ave. S.E.
 Lakewood, CO 80244
 303.444.1549 fax
 www.edgeconsult.com

PROJECT NO: 2016189558D
 EDGE PROJECT NO: 14378
 DRAWN BY: KJS
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION	KJS
A	06/23/2014	PHOTO SIMULATION	

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN CONCORDIA STL SC
 ST. PAUL, MN
 REPLACEMENT LIGHT POLE
 PHOTO SIMULATION

SHEET TITLE
PHOTO SIM 1

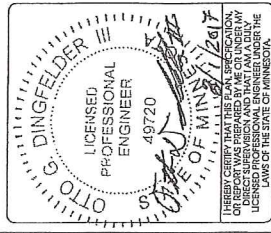
SHEET NUMBER
PS-1

SITE NAME: MIN BEARS STPL SC 1
SITE NUMBER: 20161387143
LOCATION CODE: 414864
SITE TYPE: SMALL CELL

INSTALLATION TYPE: ROOFTOP BALLAST FRAME



PROJECT NO:	20161387143	
EDGE PROJECT NO:	14276	
DRAWN BY:	M.M. TR. DGS	
CHECKED BY:	OGD	
REV.	DATE	DESCRIPTION
A	01/20/2017	PRELIMINARY DRAWINGS 100
B	01/20/2017	PRELIMINARY DRAWINGS 100
C	02/07/2017	PRELIMINARY DRAWINGS 100
D	03/01/2017	FINAL DRAWINGS 100



MIN BEARS STPL SC 1
ST. PAUL, MN

SHEET TITLE
TITLE SHEET & PROJECT DATA
SHEET NUMBER
T-1

SITE INFORMATION

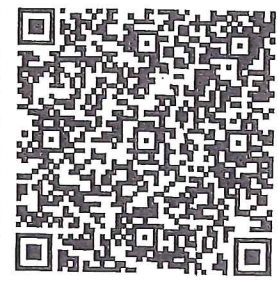
APPROXIMATE ADDRESS:
370 MARLINE AVENUE
ST. PAUL, MN 55104
RAMSEY COUNTY

SITE COORDINATES (PER I.A. CERTIFICATE):
LAT: 44°-56'-59.77"N
LONG: 93°-09'-53.33"W
GROUND ELEVATION: 529' AMSL
MAXIMUM APPURTENANCE HEIGHT:
27'00" A.G.L.

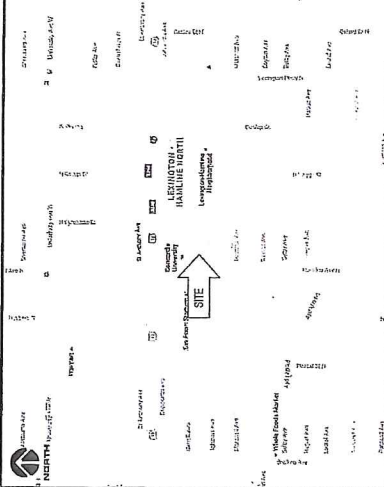
APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
 - 2012 INTERNATIONAL BUILDING CODE
 - 2011 NATIONAL ELECTRICAL CODE
 - 11A/1A-2225 OR LATEST EDITION

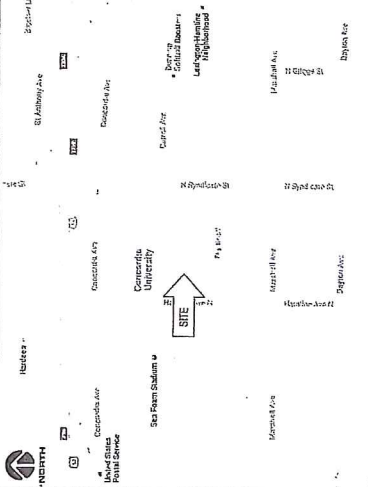
LOCATION SCAN



AREA MAP



LOCATION MAP



PROJECT DESCRIPTION/SOW

- INSTALL (1) EQUIPMENT BALLAST FRAME
- INSTALLATION OF PANEL ANTENNA
- INSTALLATION OF ERICSSON RRUS AND POWER CONVERTERS
- INSTALLATION OF LOAD CENTER
- INSTALLATION OF HYBRID COUPLERS
- INSTALLATION OF HAND HOLE FOR FIBER IN ROW, BY FIBER PROVIDER
- INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE IN ROW AND EDGE OF BUILDING, TO BE TRENCHED BELOW GRADE, BY PROVIDER
- INSTALLATION OF CONDUIT FOR FIBER FROM GROUND LEVEL UP BUILDING EXTERIOR, BY VERIZON
- INSTALLATION OF CONDUIT FOR ELECTRIC BETWEEN EQUIPMENT AND POWER SOURCE, BY VERIZON
- INSTALLATION OF GROUNDING CABLES AND BUSH BARS FOR PROPOSED EQUIPMENT
- BUILDING PENETRATION REQUIRED FOR ELECTRICAL SERVICE
- ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

PROJECT DIRECTORY

LESSOR:
 CONCORDIA UNIVERSITY
 1080 BUSH LAKE RD
 BLOOMINGTON, MN 55438
 CONTACT: COURTNEY BEDNARZ
 PHONE: 952.946.4694

LESSOR:
 CONCORDIA UNIVERSITY
 1080 BUSH LAKE RD
 ST. PAUL, MN 55104
 CONTACT: JONATHAN BREITBARTH
 PHONE: 651.641.8776

ENGINEERING COMPANY:
 EDGE CONSULTING ENGINEERS, INC.
 1080 BUSH LAKE RD
 SUITE 370
 LAKEVILLE, MN 55044
 CONTACT: OTTO DINGFELDER III, P.E.
 PHONE: 656.644.1449

SITE ACQUISITION:
 KGI
 805 LAS CIMAS PRWAY
 SUITE 370
 AUSTIN, TX 78746
 CONTACT: KARYN O'BRIEN
 PHONE: 952.286.8130

SHEET INDEX

NO:	SHEET TITLE
C1	TITLE SHEET & PROJECT DATA
C2	SITE PLAN
C3	ENLARGED SITE PLAN
A1	BUILDING ELEVATION
A2	LOADING DETAILS
A3	EQUIPMENT DETAILS
E1	CAULING DETAILS
E2	ELECTRICAL NOTES
G1	GROUNDING PLAN
G2	GROUNDING DETAILS

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE LOCAL ORDINANCE PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE THE SITE IS LOCATED.
 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING CONDITIONS ON SITE IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR DISAGREEMENTS WITH ANY WORK OR BE RESPONSIBLE FOR THE SAME.

ENGINEER OF RECORD

EDGE CONSULTING ENGINEERS, INC.
 CONTACT: OTTO DINGFELDER III (P.E. # 49720 (MN))
 PHONE: 656.644.1449

STRUCTURAL REVIEW

BUILDING STRUCTURAL ANALYSIS TO BE COMPLETED BY EDGE CONSULTING ENGINEERS, INC.
 CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.



verizon



605 Los Cirros Parkway, Building Three, Suite 370
Austin, TX 78746
www.kgiwest.com



Edge
Consulting Engineers, Inc.
17495 Sunrise Park, Suite 105
Lotosville, MN 55044
651.444.1547 fax
www.edgeconsulting.com

PROJECT NO: 20161387143

EDGE PROJECT NO: 14276

DRAWN BY: M.J.M. TRB, DGS

CHECKED BY: OGD

REV.	DATE	DESCRIPTION
A	01/20/2017	PRELIMINARY DRAWINGS TRB
B	01/20/2017	PRELIMINARY DRAWINGS TRB
C	02/02/2017	PRELIMINARY DRAWINGS DGS
D	02/01/2017	FINAL DRAWINGS DGS

APPROVED

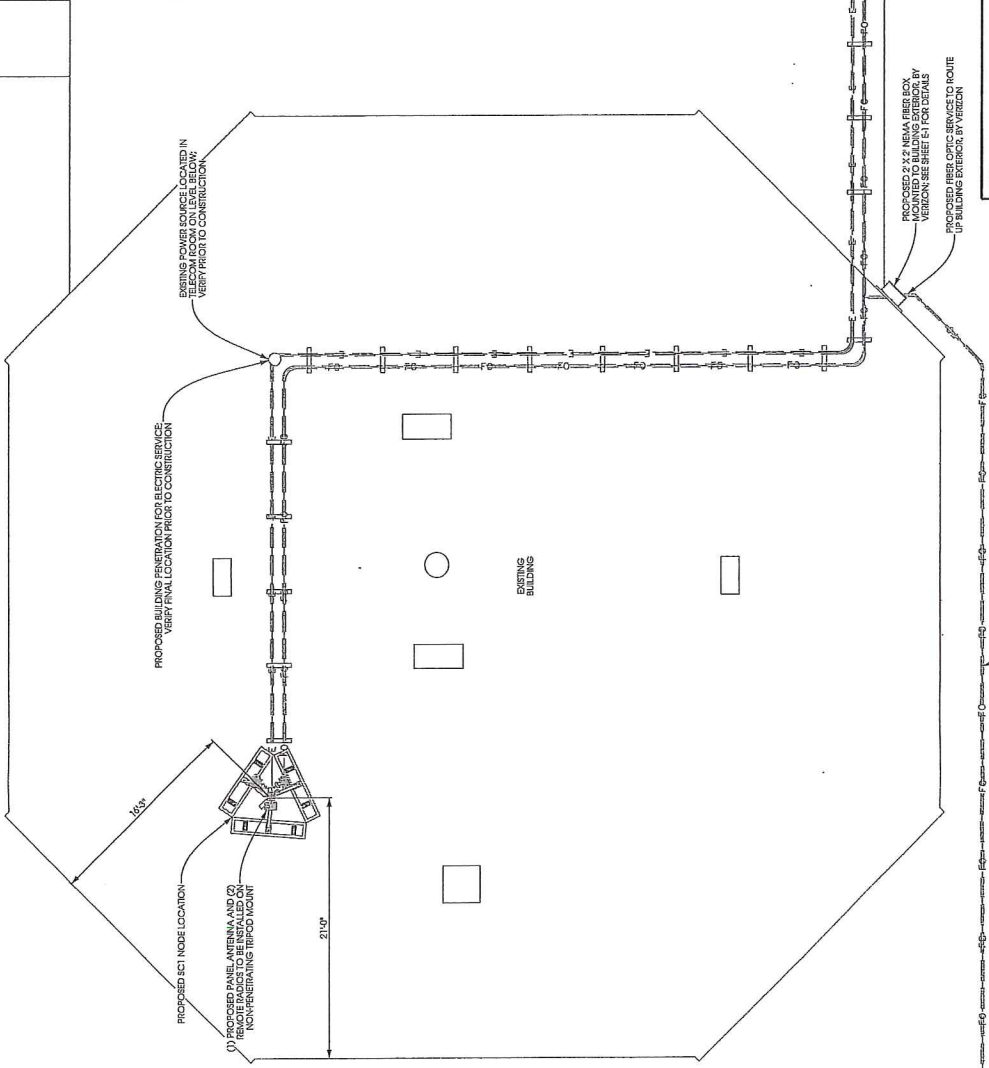
THEIRY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN BEARS STPL SC 1
ST. PAUL, MN

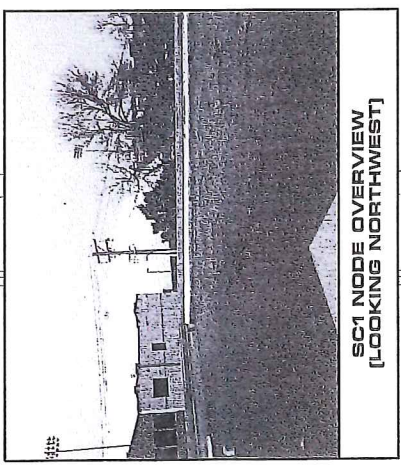
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-2

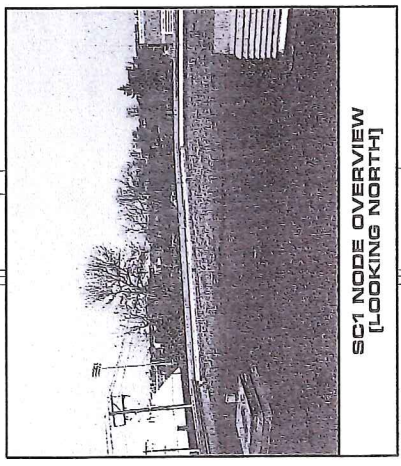
POWER AND FIBER ROUTING NOTE:
THE PROPOSED POWER AND FIBER ROUTES ARE PRELIMINARY AND WILL BE COORDINATED WITH THE LANDLORD AND FIBER PROVIDER PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THESE ROUTES AND THE EXISTING POWER, FIBER, AND FIBER, THE VERICON CONSULTING ENGINEER AND PROJECT ENGINEER ARE TO BE FORWARDED PRIOR TO COMMENCEMENT OF WORK.



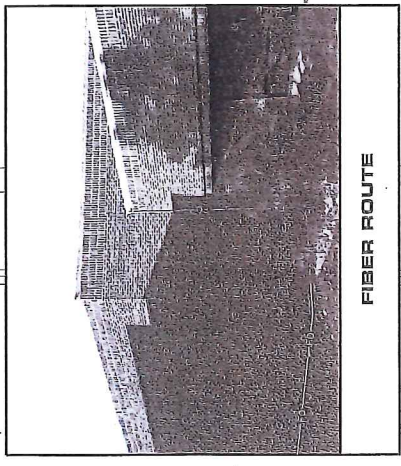
NOTE:
NO SURVEY PROVIDED. SITE LAYOUT BASED ON PHOTOS AND FIELD MEASUREMENTS.
SCALE: 1" = 10', 1/4" = 10', 1/8" = 20'
22' x 34' - 1" = 20'



SC1 NODE OVERVIEW
[LOOKING NORTHWEST]



SC1 NODE OVERVIEW
[LOOKING NORTH]

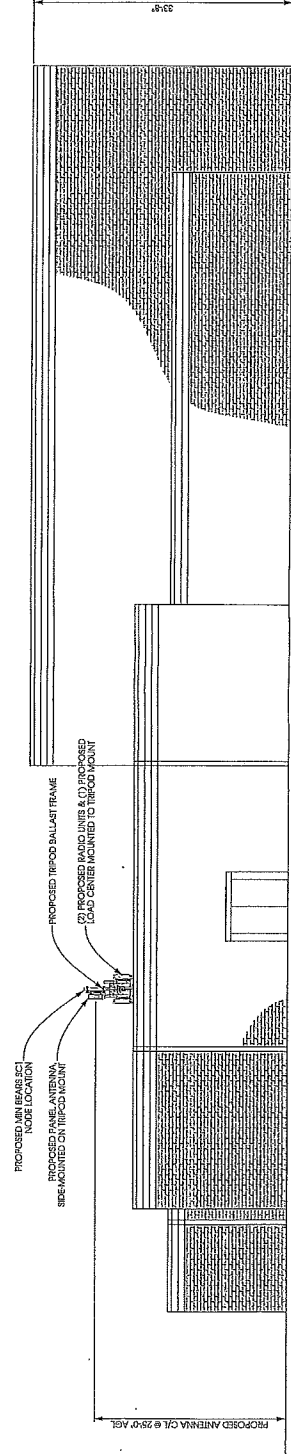


FIBER ROUTE

NOTE:
 VERIFY EQUIPMENT LOADING

ANTENNA				COAX											
AZIMUTH	POSITION	QTY	MFR.	MODEL	PORT	C/L	ADI ELECT/TILT	MECH/TILT	QTY	TYPE	MFR.	MODEL	ELECTRIC	D.I.A.	RUN
270	1.1	1	COMMSCOPE	HBXX-6513DS-A2M	+45				1	Jumper	Commscope	LFDA-50	Foam	1/2"	TBD
	1.2	1	COMMSCOPE	HBXX-6513DS-A2M	-45	25	6	0	1	Jumper	Commscope	LFDA-50	Foam	1/2"	TBD
	1.3	1	COMMSCOPE	HBXX-6513DS-A2M	+45				1	Jumper	Commscope	LFDA-50	Foam	1/2"	TBD
	1.4	1	COMMSCOPE	HBXX-6513DS-A2M	-45				1	Jumper	Commscope	LFDA-50	Foam	1/2"	TBD

A ANTENNA AND COAX



B WEST BUILDING ELEVATION

SCALE: 1/4" = 1'-0"
 1/8" = 1'-0"



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 612.424.1499
 www.edgeconsult.com

PROJECT NO: 20161387143
 EDGE PROJECT NO: 14276
 DRAWN BY: M.J.M, T.K.B, D.G.S
 CHECKED BY: O.G.D

REV.	DATE	DESCRIPTION
1	10/12/2017	PRELIMINARY DRAWINGS
2	10/12/2017	REVISIONS
3	10/29/2017	PRELIMINARY DRAWINGS
4	10/29/2017	REVISIONS
5	10/29/2017	FINAL DRAWINGS

APPROVED

THIS DRAWING IS THE PROPERTY OF KGI CONSULTING ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND THAT IT IS A VIOLATION OF THE LAWS OF THE STATE OF MINNESOTA TO REPRODUCE OR TRANSMIT THIS DRAWING IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF KGI CONSULTING ENGINEERS, INC.

MIN BEARS STPLSC 1
 ST. PAUL, MN

SHEET TITLE
BUILDING ELEVATION

SHEET NUMBER
A-1

verizon



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 www.kgi.com



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 53144-1499, Verona, WI
 www.edgeconsult.com

PROJECT NO: 20161387143
 EDGE PROJECT NO: 14276
 DRAWN BY: M.M. T.B. DGS
 CHECKED BY: CGD

REV.	DATE	DESCRIPTION
A	10/20/2017	PRELIMINARY DRAWINGS - TIB
B	10/20/2017	PRELIMINARY DRAWINGS - TIB
C	10/20/2017	PRELIMINARY DRAWINGS - DGS
D	10/20/2017	FINAL DRAWINGS - DGS

APPROVED

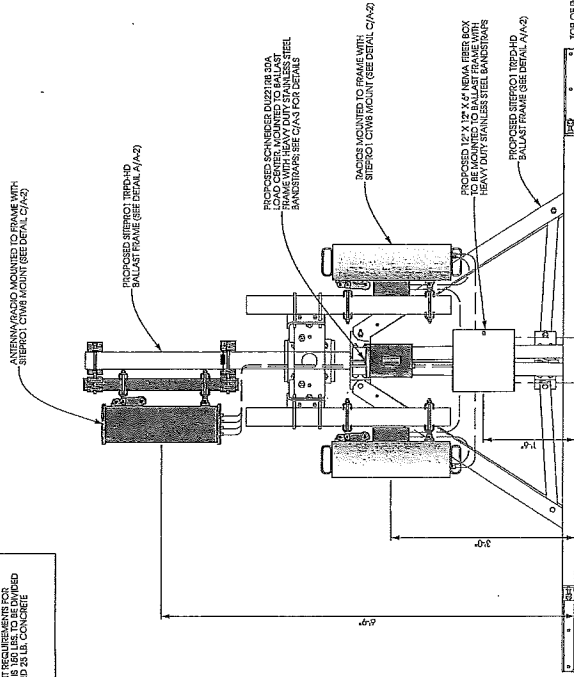
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, CONTRACT AND/OR AGREEMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly Licensed Professional Engineer under the LAWS OF THE STATE OF MINNESOTA.

MIN BEARS STL/SC 1
 ST. PAUL, MN

SHEET TITLE
MOUNTING DETAILS

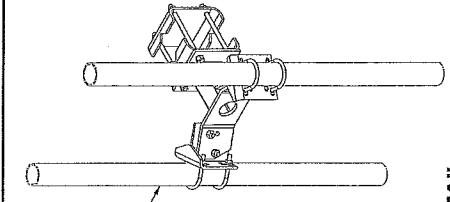
SHEET NUMBER
A-2

NOTE:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 2. TOTAL BALLAST WEIGHT IS 180 LBS TO BE DIVIDED EQUALLY.
 3. ANTENNA WEIGHTS ARE 180 LBS TO BE DIVIDED EQUALLY.
 4. ANTENNA WEIGHTS ARE 180 LBS TO BE DIVIDED EQUALLY.



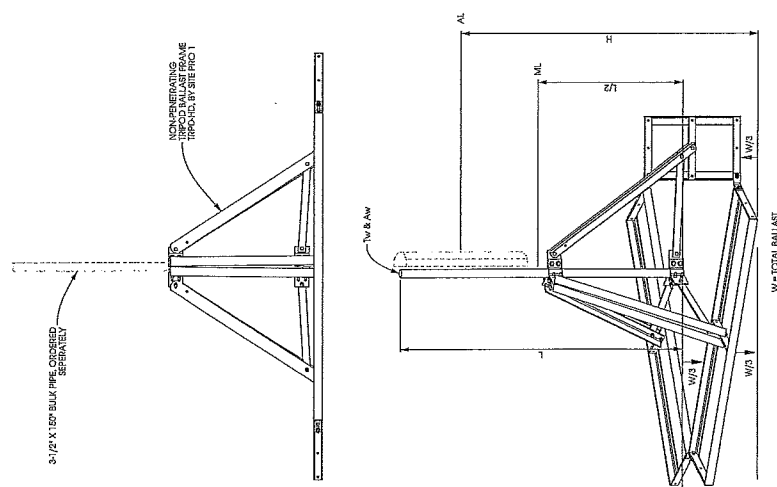
ANTENNA/RADIO MOUNTING
B EQUIPMENT MOUNT DETAIL
 SCALE: NTS

ITEM NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	ANTENNA/RADIO MOUNT	EA	25.00	25.00
2	1	STEREO C/WB MOUNT	EA	25.00	25.00
3	1	PROPOSED SCHWENNER DUZTER 30A FRAME WITH HEAVY DUTY STAINLESS STEEL BRACKET/PLATE	EA	15.00	15.00
4	1	PROPOSED STEREO TERP-DH BALLAST FRAME	EA	15.00	15.00
5	1	PROPOSED 1/2\"/>			



C ANTENNA MOUNT DETAIL
 SCALE: NTS MANUFACTURER & PART #: STEREO C/WB

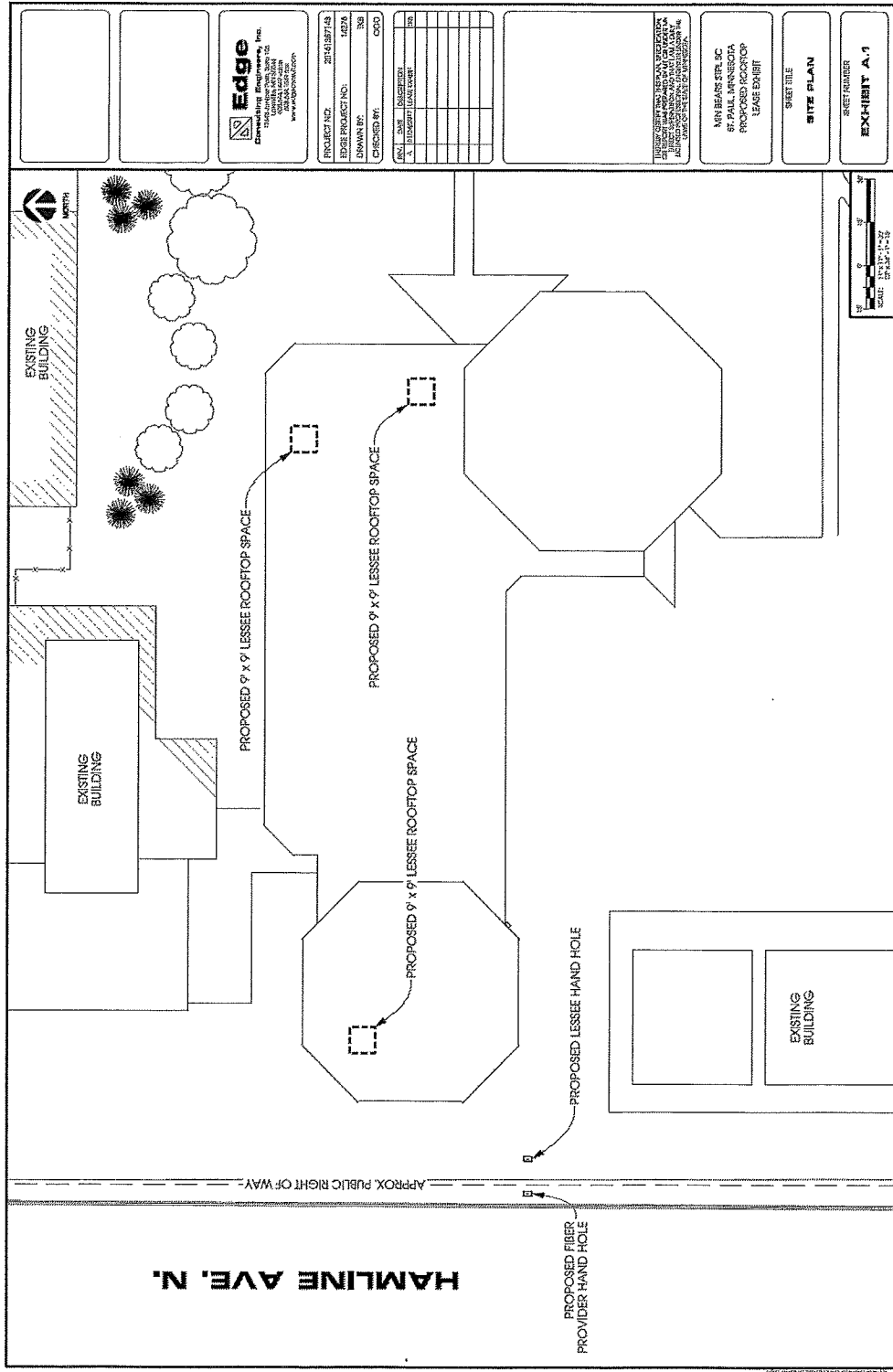
NOTE:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 2. EXACT MOULDS MAY VARY. USE EXACT MOULDS FOR CALCULATING TOTAL BALLAST REQUIRED.
 3. VERIFY W/ STRUCTURAL ANALYSIS IDENTIFIED ON P1 WHEN OUTSIDE ANTENNAS ARE INSTALLED. ADDITIONAL BALLAST WEIGHT WILL BE REQUIRED TO BE CALCULATED.

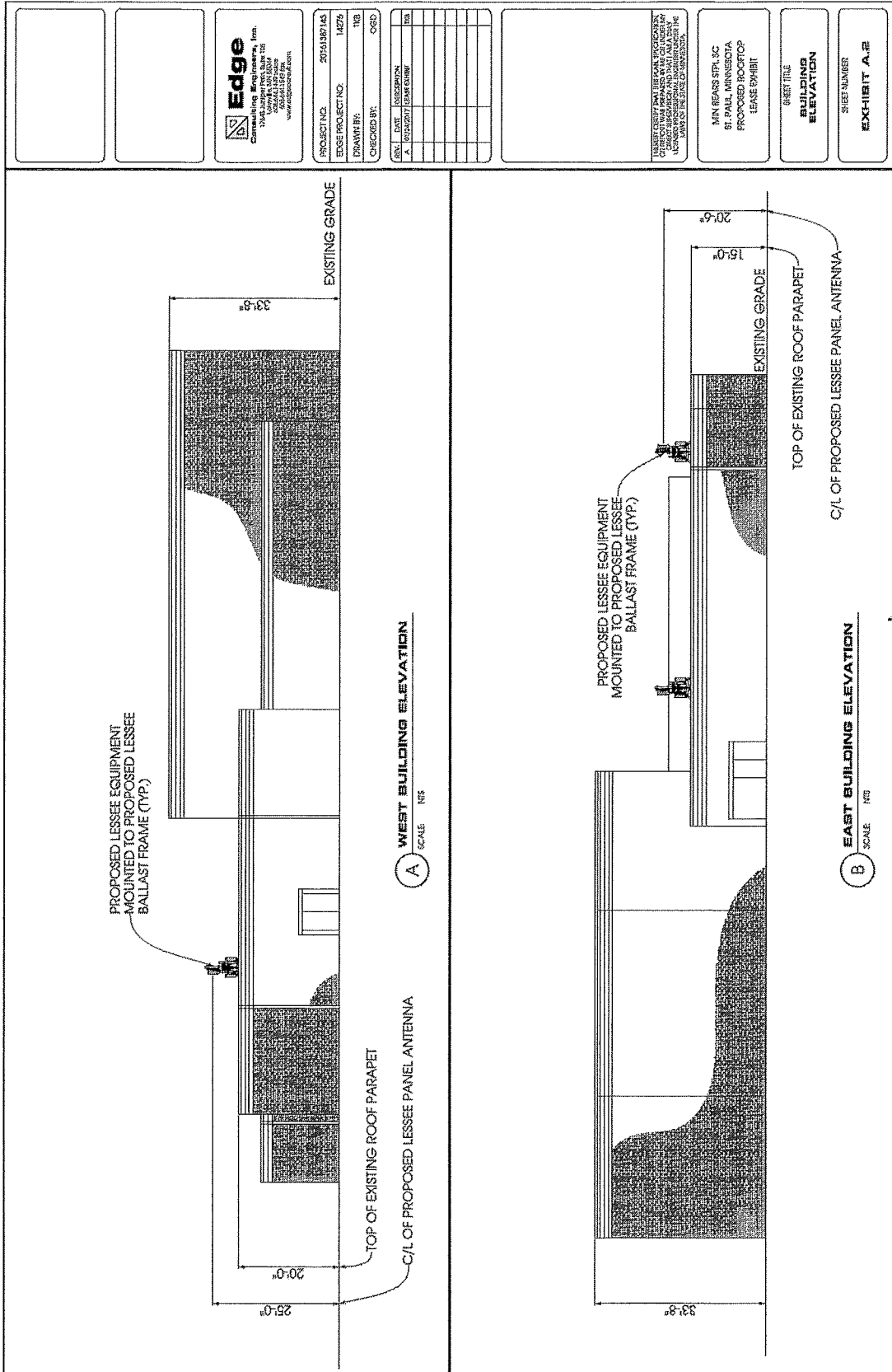


BALLAST REQUIREMENTS
 -NOTE EQUATION INCLUDES A 1.5 FACTOR OF SAFETY FOR OVER TURNING
 $W(A+H) = (AL \cdot L/2) - (W \cdot W/2) \cdot 0.515$
 AL = HORIZONTAL ANTENNA LOAD, LBS.
 Aw = ANTENNA WEIGHT, LBS.
 M = HORIZONTAL MASS LOAD, LBS.
 L/2 = HORIZONTAL MASS LEVER ARM, LBS.
 W = TOTAL BALLAST REQUIRED, LBS.
 W/3 = REQUIRED BALLAST PER TRAIL, LBS.

A ANTENNA MOUNTING FRAME
 SCALE: NTS

Exhibit "B"
Site Plan





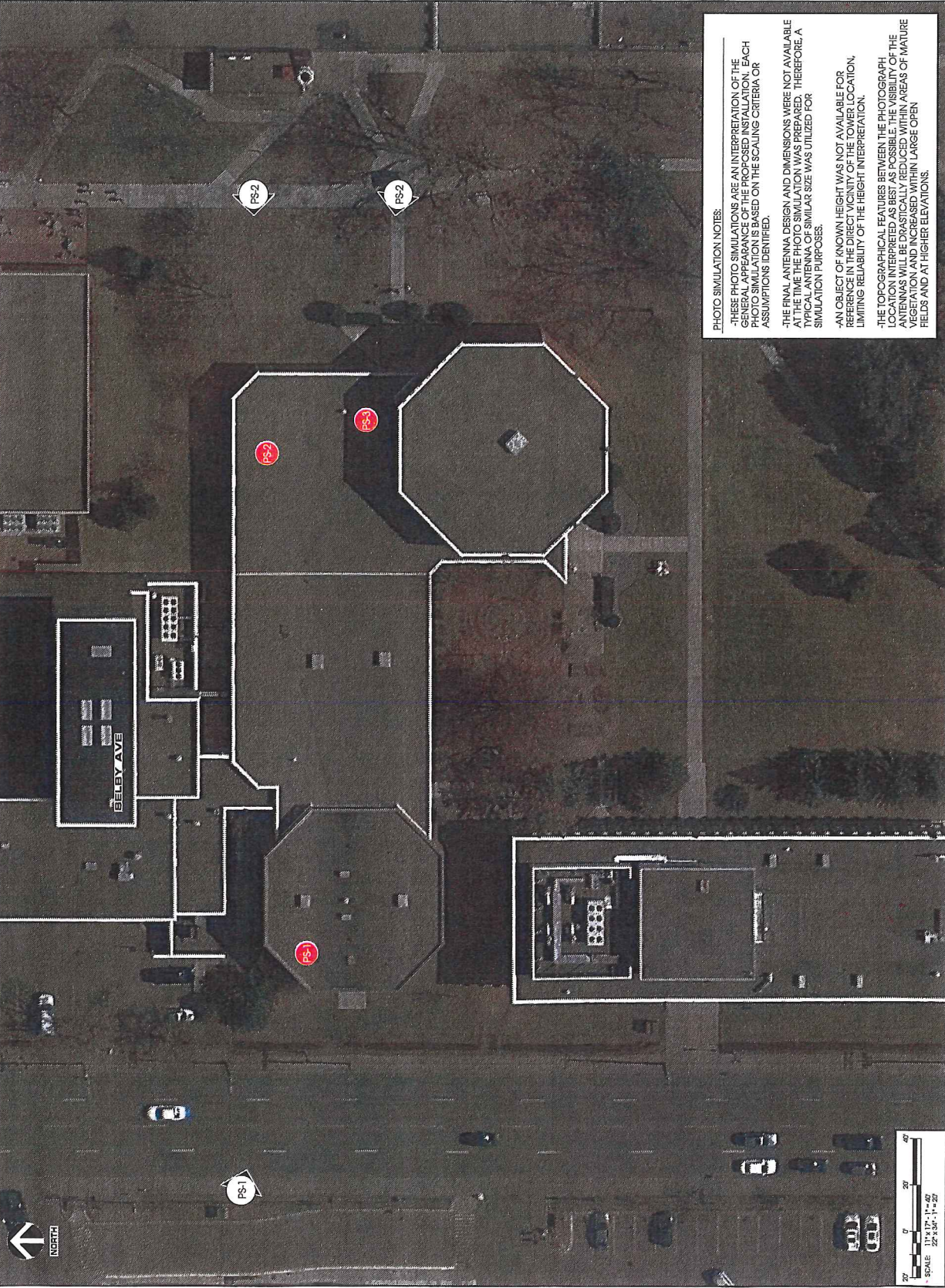


PHOTO SIMULATION NOTES:

- THESE PHOTO SIMULATIONS ARE AN INTERPRETATION OF THE PHOTOGRAPH OF THE PROPOSED INSTALLATION. EACH PHOTO SIMULATION IS BASED ON THE SCALING CRITERIA OR ASSUMPTIONS IDENTIFIED.
- THE FINAL ANTENNA DESIGN AND DIMENSIONS WERE NOT AVAILABLE AT THE TIME THE PHOTO SIMULATION WAS PREPARED. THEREFORE, A TYPICAL ANTENNA OF SIMILAR SIZE WAS UTILIZED FOR SIMULATION PURPOSES.
- AN OBJECT OF KNOWN HEIGHT WAS NOT AVAILABLE FOR REFERENCE IN THE DIRECT VICINITY OF THE TOWER LOCATION, LIMITING RELIABILITY OF THE HEIGHT INTERPRETATION.
- THE TOPOGRAPHICAL FEATURES BETWEEN THE PHOTOGRAPH AND THE PHOTO SIMULATION, SUCH AS THE PRESENCE OF VEGETATION AND INCREASED WITHIN LARGE OPEN FIELDS AND AT HIGHER ELEVATIONS.



Edge
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 Lakeville, MN 55044
 651.454.1549 fax
 www.edgeconsulting.com

PROJECT NO: 2016188743
 EDGE PROJECT NO: 14276
 DRAWN BY: MAM
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION	BY
1	10/22/2016	PHOTO SIMULATIONS	MAM
2	11/20/2016	PHOTO SIMULATIONS	MAM
3	03/22/2017	PHOTO SIMULATIONS	MAM

PRELIMINARY -
 NOT FOR CONSTRUCTION
 I HEREBY CERTIFY THAT THIS FINAL SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN BEARS STRL SC
 ST. PAUL, MN
 ROOFTOP INSTALLATION
 PHOTO SIMULATIONS

SHEET TITLE
TITLE SHEET & PROJECT DATA

SHEET NUMBER
T-1



PHOTOGRAPH BEFORE SIMULATION



Edge
 Consulting Engineers, Inc.
 11400
 Edina, MN 55424
 612.544.1549
 www.edgeconsult.com

PROJECT NO: 20161887143
 EDGE PROJECT NO: 14276
 DRAWN BY: MJM
 CHECKED BY: OGD

REV	DATE	DESCRIPTION	MM
1	06/22/2016	PHOTO SIMULATIONS	MM
2	11/09/2016	PHOTO SIMULATIONS	MM
3	03/29/2017	PHOTO SIMULATIONS	MM

**PRELIMINARY -
 NOT FOR CONSTRUCTION**

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN BEARS STPL SC
 ST. PAUL MN
 ROOFTOP INSTALLATION
 PHOTO SIMULATIONS

SHEET TITLE
PHOTO SIM 2

SHEET NUMBER
PS-2



6881 Lee Circle
 Princeton, NJ 08540
 609.444.1549
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Edge
 Consulting Engineers, Inc.
 1745
 Lehigh Valley Blvd.
 Allentown, PA 18103
 610.444.1549
 www.edgeconsulting.com

PROJECT NO: 20161387145
 EDGE PROJECT NO: 14276
 DRAWN BY: MJM
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION	MM
1	06/22/2016	PHOTO SIMULATIONS	MM
2	11/09/2016	PHOTO SIMULATIONS	MM
3	02/02/2017	PHOTO SIMULATIONS	MM

PRELIMINARY -
 NOT FOR CONSTRUCTION

THESEY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN BEARS STL SC
 ST. PAUL MN
 ROOFTOP INSTALLATION
 PHOTO SIMULATIONS

SHEET TITLE
PHOTO SIM 3

SHEET NUMBER
PS-3



PHOTOGRAPH BEFORE SIMULATION

1/14/2021 14:03:19 (10) Sim1/2017-02-02/CN/PS-3.dgn

(iii) Comparable equipment from pre-existing 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 backup-power) 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 pre-existing 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 Act.

(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 the 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 section.

(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

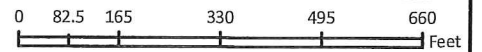
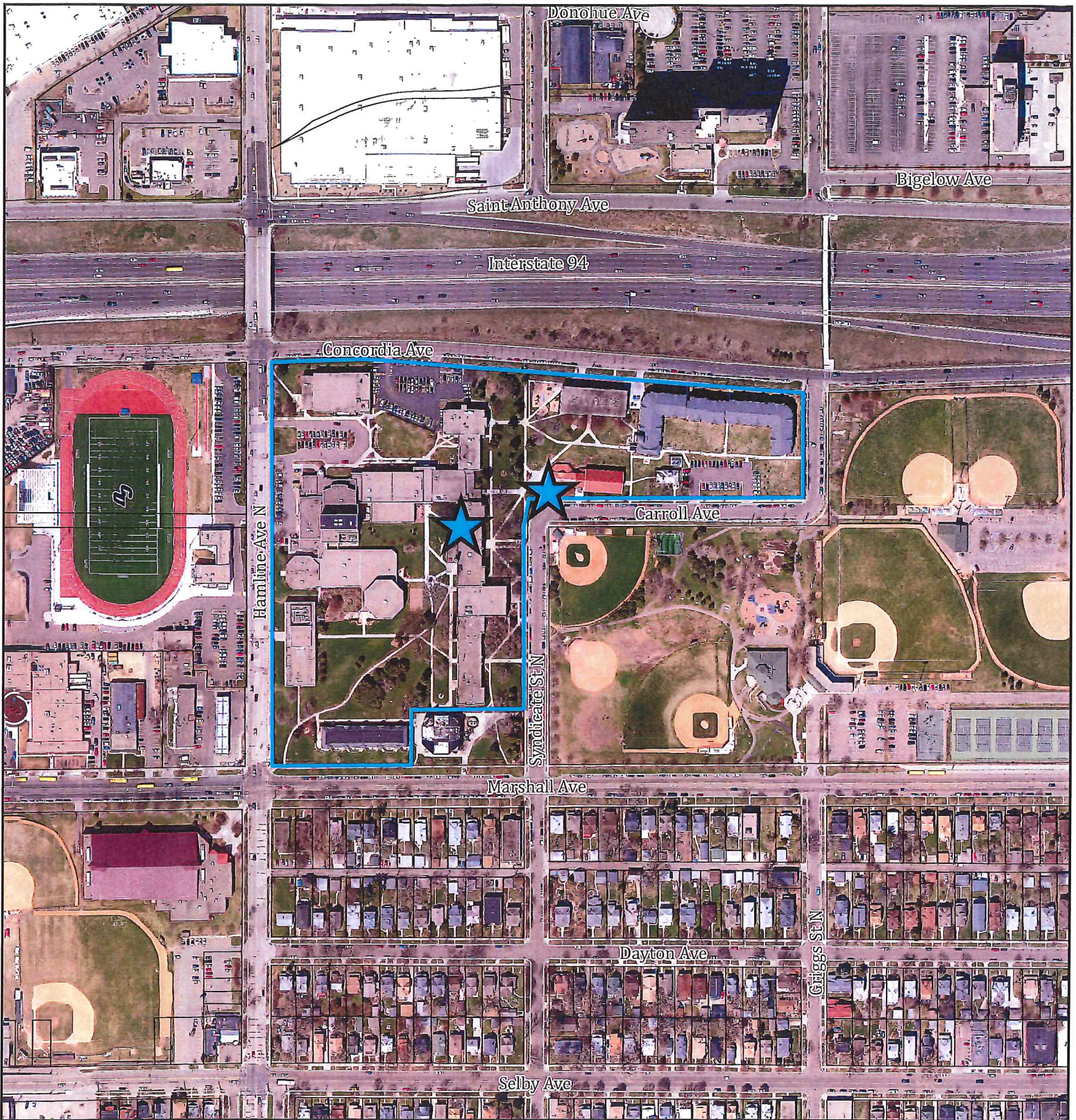
■ 5. The authority citation for part 17 continues to read as follows:

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) * * *



FILE NAME: Verizon Wireless

Aerial

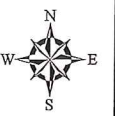
APPLICATION TYPE: CUP

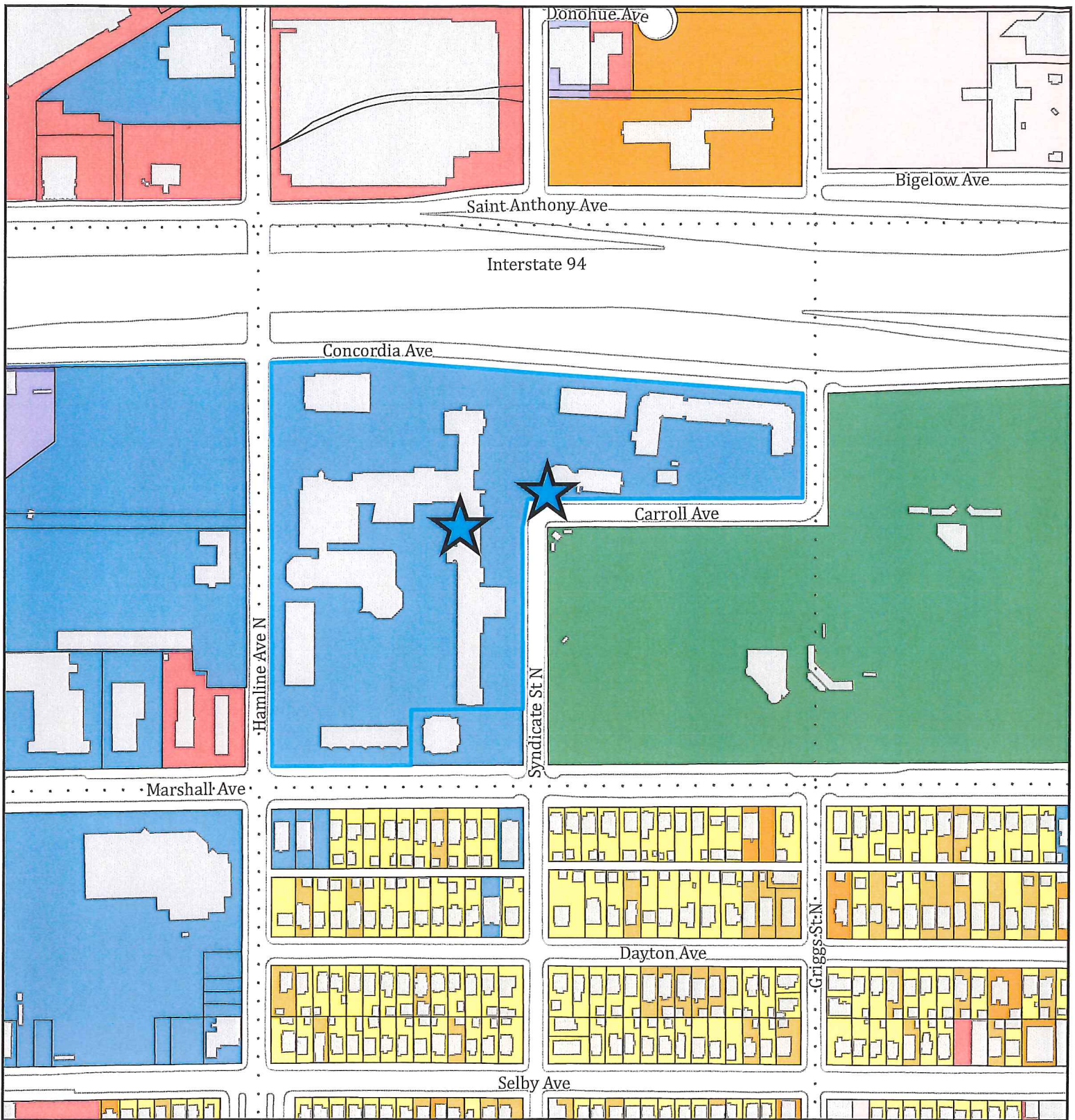
 Subject Parcels

FILE #: 17-019449 DATE: 3/14/2017

PLANNING DISTRICT: 13

ZONING PANEL: 14





FILE NAME: Verizon Wireless

APPLICATION TYPE: CUP

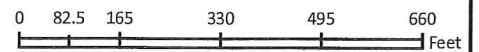
FILE #: 17-019449 DATE: 3/14/2017

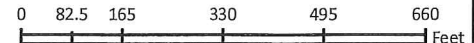
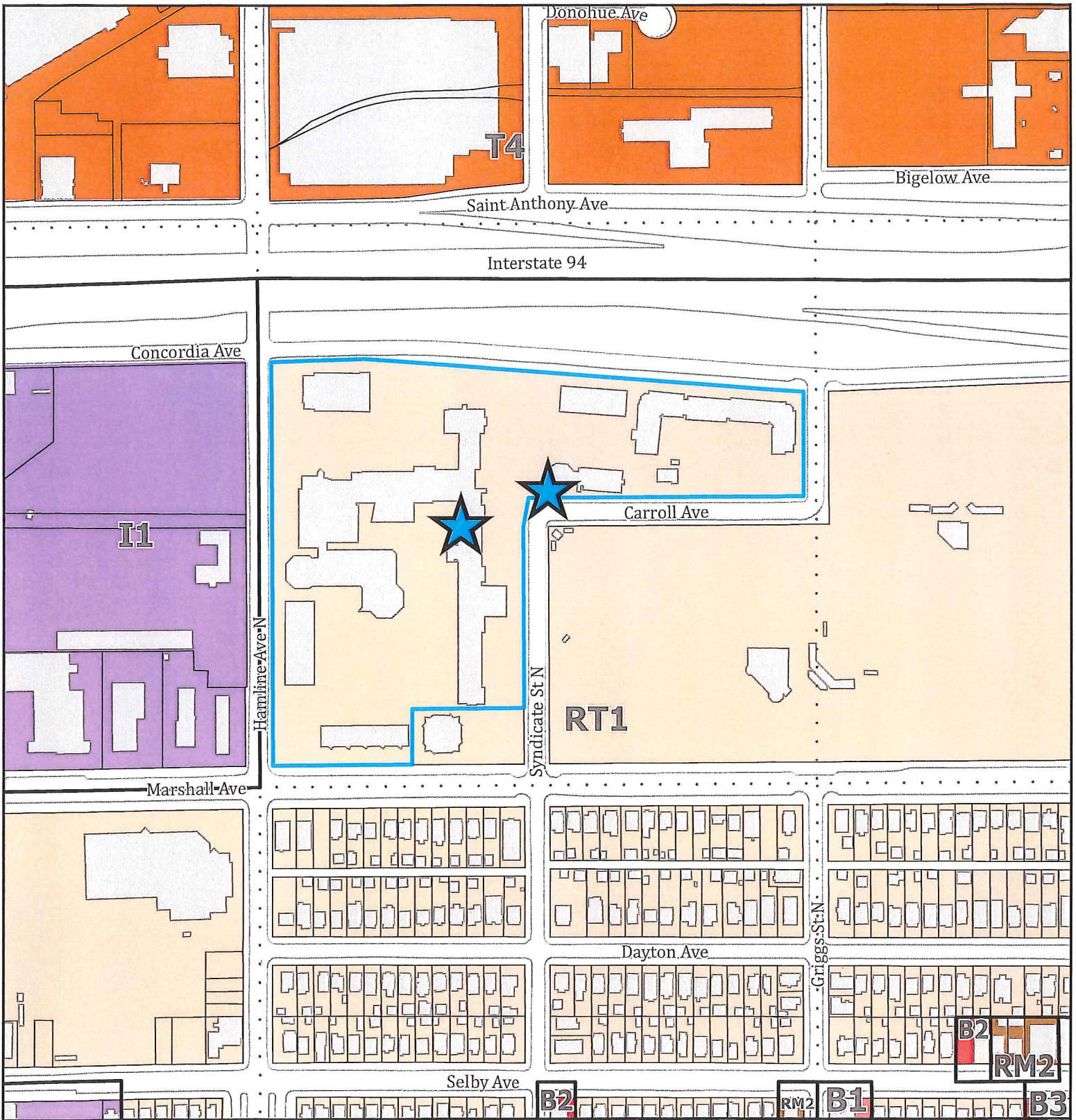
PLANNING DISTRICT: 13

ZONING PANEL: 14

Land Use

- Single Family Detached
- Single Family Attached
- Multifamily
- Office
- Retail and Other Commercial
- Mixed Use Residential
- Mixed Use Industrial
- Industrial and Utility
- Institutional
- Park, Recreational or Preserve
- Undeveloped
- Subject Parcels
- Section Lines





FILE NAME: Verizon Wireless

APPLICATION TYPE: CUP

FILE #: 17-019449 DATE: 3/14/2017

PLANNING DISTRICT: 13

ZONING PANEL: 14

- Zoning**
- Subject Parcels
 - Section Lines
 - RT1 Two-Family
 - RM2 Multiple-Family
 - T4 Traditional Neighborhood
 - B1 Local Business
 - B2 Community Business
 - B3 General Business
 - I1 Light Industrial

