



Redwood County

Application for Conditional Use Permit

www.co.redwood.mn.us

Permit #: 7-18

Date: 5-24-18

Location of Proposed Use:

Address: 260th St City: Milroy State: MN Zip: 56263
House # Street Name

Parcel #: 74-017-1020 Township: West Line Section: 17 Twp #: 111 N Range: 39 W

Legal Description:

NE1/4 EX TRS & TR IN NW1/4 SE1/4 N OF R/R 155.83A

Information about the Site:

Zoning District: AG

General description of the building or request:

Telecommunications Tower

Type of occupancy:

Commercial

Building Size: (Please enter dimensions in feet) (See Exhibit A)

Width: N/A Length: N/A Diameter: N/A

Sidewall Height: N/A Total Height: 259'

Setbacks: (Please enter in feet)

Side Yard Setback: 359' Direction: E

Side Yard Setback: N/A Direction: W

Rear Yard Setback: N/A Direction: S

Road Type: Township Setback from the Center of the Road: 359' from ROW

Right-of-Way Footage: ft

General Contractor:

Name: TBD

City: TBD

State: MN

Sewer System Contractor:

Name: N/A City: N/A State: MN

Type of Sewer System: N/A

Drainage Plan: N/A

Water Usage (estimated gallons per day): N/A

Soil Type 1: N/A

Soil Type 2: N/A

Estimated Date of Completion: 2020

Other Information:


Applicant Information:

First Name: David Last Name: Hendrixon
Business: NTP Wireless agent for Verizon Wireless
Address: 125 S Clark St City: Chicago State: MN IL Zip: 60603
Home Phone: 773-275-5712 x410 Cell Phone:

Land Owner Information:

First Name: Tim Last Name: Christensen

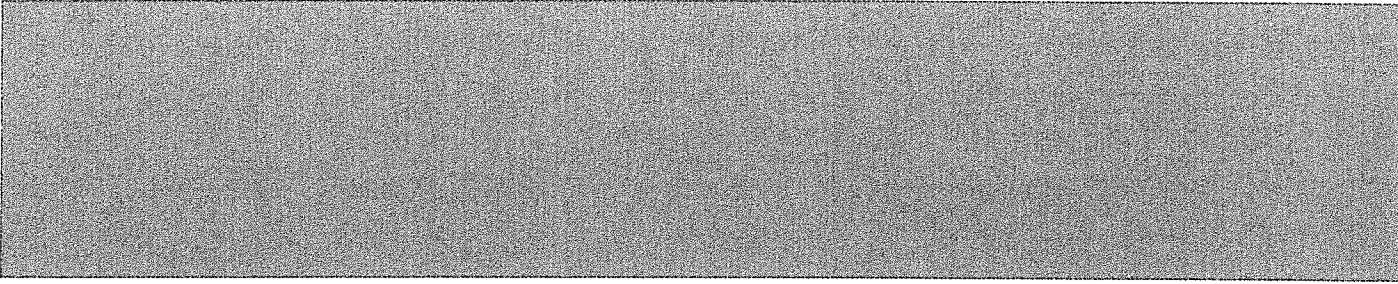
I affirm that the forgoing information is true and accurate. I understand that if any portion of this information is false or materially misleading, any conditional use permit issued in reliance upon this information is voidable at the election of Redwood County.

Land Owner Signature  Date: 4-10-18

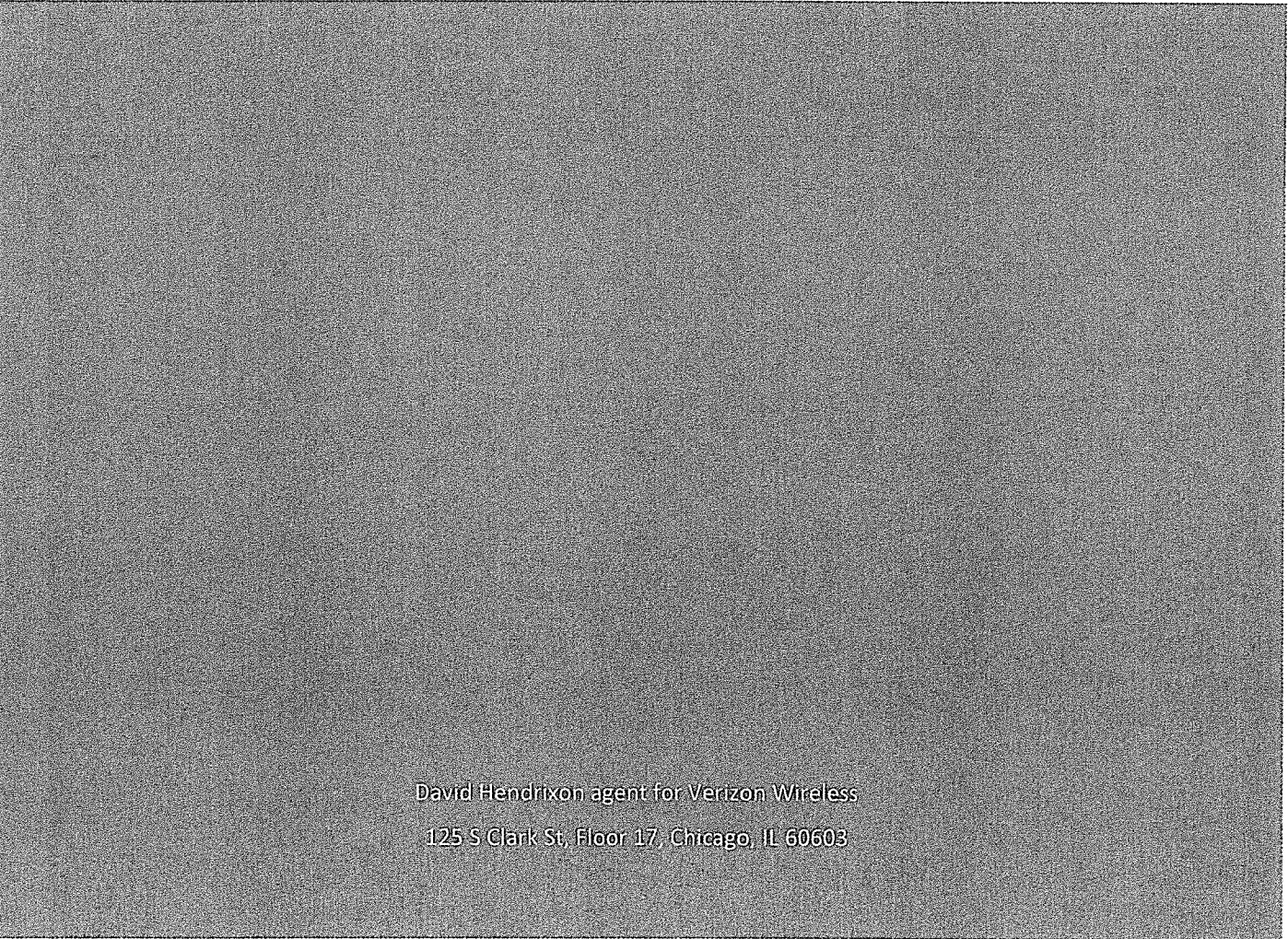
Office Use Only: *The section below is to be filled out by the Environmental Office Staff

CUP Permit Fee: \$700 Receipt #: Date Approved:

<u>Commission Action:</u>		<u>County Board Action</u>	
Approved:	Date:	Approved:	Date:
Disapproved:	Date:	Disapproved:	Date:



Conditional Use Permit Application for
Alltel Communications, LLC d/b/a Verizon
Wireless for a 250' Communications
Tower with 9' lightning rod located on
260th St, Milroy, MN 56263



David Hendrixon agent for Verizon Wireless
125 S Clark St, Floor 17, Chicago, IL 60603

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<u>APPROVAL REQUIREMENTS FOR A CONDITIONAL USE PERMIT</u>	3
<u>EVIDENCE OF VERIZON'S COMPLIANCE WITH THE CONDITIONAL USE PERMIT REQUIREMENTS</u>	5

APPLICATION EXHIBITS:

- EXHIBIT A: SITE PLAN (CONSTRUCTION DRAWINGS)
- EXHIBIT B: ALTERNATIVE STRUCTURES
- EXHIBIT C: ENGINEER'S STATEMENT
- EXHIBIT D: FCC LICENSURE
- EXHIBIT E: COLOCATION AGREEMENT

SUMMARY OF PROPOSED CONDITIONAL USE PERMIT FOR A 150' COMMUNICATIONS TOWER

Alltel Communications, LLC d/b/a Verizon Wireless ("Verizon") seeks Conditional Use Permit approval to install a new telecommunications facility on the parcel located at the intersection of 260th St and County Rd 8 (Parcel 74-017-1020). Verizon is proposing to construct a 250' wireless communications tower with a nine (9) foot lightning rod on the property. The property is located in the County of Redwood and the underlying zoning district for the property is Agricultural (Ag). The property is owned by Timothy A. Christensen. The subject parcel's primary use is agricultural.

Verizon proposes to construct a 250-foot lattice tower with a nine (9) foot lightning rod (total structure height of 259') with Verizon equipment mounted at 246'. The tower will be capable of holding no less than two additional co-locators. The tower will be built within a 44' x 50' fenced compound within a 100' x 100' lease area. Within this compound, Verizon will install a 9'4" x 14'0" platform, a 3'8"x7'6" concrete pad for generator placement, and a hand hole/pull box for its fiber equipment. The fence surrounding the compound will be a six (6) foot high chain link fence topped with three (3) strands of barbed wire canted outwards for a total of seven (7) feet total height.

The compound and tower are designed to accommodate collocation by other telecommunication carriers. The site is an unmanned facility; therefore, no water or sewage service is necessary. The tower and compound will be accessed from 260th St. (see Exhibit A).

Per Redwood County Zoning Ordinance, Section 20, Telecommunications Tower Management ("Zoning Ordinance"), telecommunications tower facilities are allowed in Agricultural-zoned districts via a conditional use permit. Subdivision 2 of the Zoning Ordinance lays out application requirements for towers. The enclosed information demonstrates that Verizon has complied with the Zoning Ordinance and is entitled to approval of its requested conditional use permit approval.

Granting approval of Verizon's proposal is in the best interest of Redwood County residents and visitors. In addition to immediate improvement of the customer experience of Verizon customers, the new facility will also provide critical infrastructure on which additional cellular carriers can collocate in the future. If Verizon's request is approved, the County's public safety system and the enhanced E-911 services from Verizon will improve public safety in the in the County surrounding the tower. The E-911 service allows public safety answering points (PSAPs) to specifically locate users of wireless devices who dial 9-1-1, even if those users cannot communicate. As 76% of 9-1-1 calls originate from a cell phone (National Highway Traffic Administration, February, 2016), it is critical to the public safety that wireless devices have coverage sufficient to make these calls.

APPROVAL REQUIREMENTS FOR A CONDITIONAL USE PERMIT

A. Subdivision 2 lays out the below requirements as included in this application package:

1. A site plan, detailing the location of the project area boundaries including maps demonstrating size of communication cells and search radius for the antenna location. A narrative describing a search of not less than one (1) mile radius for the requested site, clearly explaining why the site was selected, locating all existing towers, and identifying all other structures that may be potential co- location sites.

A vicinity map as located on page T-1 of Exhibit A indicates the general location of the tower and search area. There are no existing structures within one (1) mile of the proposed site.

2. The name, address, and telephone number of the owner and lessee of the parcel of land on which the tower is situated. If the applicant is not the owner of the parcel of land upon which the tower is situated, the consent of the owner shall be obtained by sworn affidavit.

Land Owner:
Timothy Christensen
PO Box 35
Milroy, MN 56263
507-828-2162

Lessee:
NTP Wireless agent of Verizon
Wireless
125 S Clark St
Floor 17
Chicago, IL 60603

The land owner's signature on the application demonstrates their consent to the construction of this tower on their land.

3. The legal description, parcel number, and address of the parcel of land upon which the tower is situated.

Legal description: NE1/4 EX TRS & TR IN NW1/4 SE1/4 N OF R/R 155.83A
Parcel ID: 74-017-1020
Address: 11802 State Highway 68, Milroy, MN 56263

4. The location of all public and private airports within a three (3) mile radius of proposed tower.

No airports exist within 3 miles.

5. Towers located within 5 miles of a FAA approved Airstrip shall provide evidence of FAA and/or MnDOT consent.

No FAA approved airstrips exist within 5 miles

6. Written documentation that the applicant made diligent, but unsuccessful efforts for permission to install or co-locate the applicant's telecommunications facilities on other available antenna support structures located within one (1) mile radius of the proposed tower site.

No structures suitable for colocation exist within 1 mile. See Exhibit B

7. Written technical evidence from an engineer(s) that the proposed tower or telecommunications facilities cannot be installed or co-located on another person's tower or useable antenna support structure located within one (1) mile radius of the proposed tower site and must be located at the proposed site in order to meet the coverage requirements of the applicant's wireless communications system.

No structures suitable for colocation exist within 1 mile. See Exhibit B.

8. A report from a licensed engineer that describes the telecommunication tower's capacity, including the number and type of antenna that it can accommodate.

Page T-1 of Exhibit A show the towers ability to support at minimum two additional colocations.

9. A sworn and certified statement by an engineer certifying that the tower is structurally sound and conforms to the requirements of the Minnesota Building Code and all other construction standards set forth by the County, Federal, and State law.

Please see Exhibit C

10. A copy of the Federal Communications Commissioner's licensure and approval as required for various communications application.

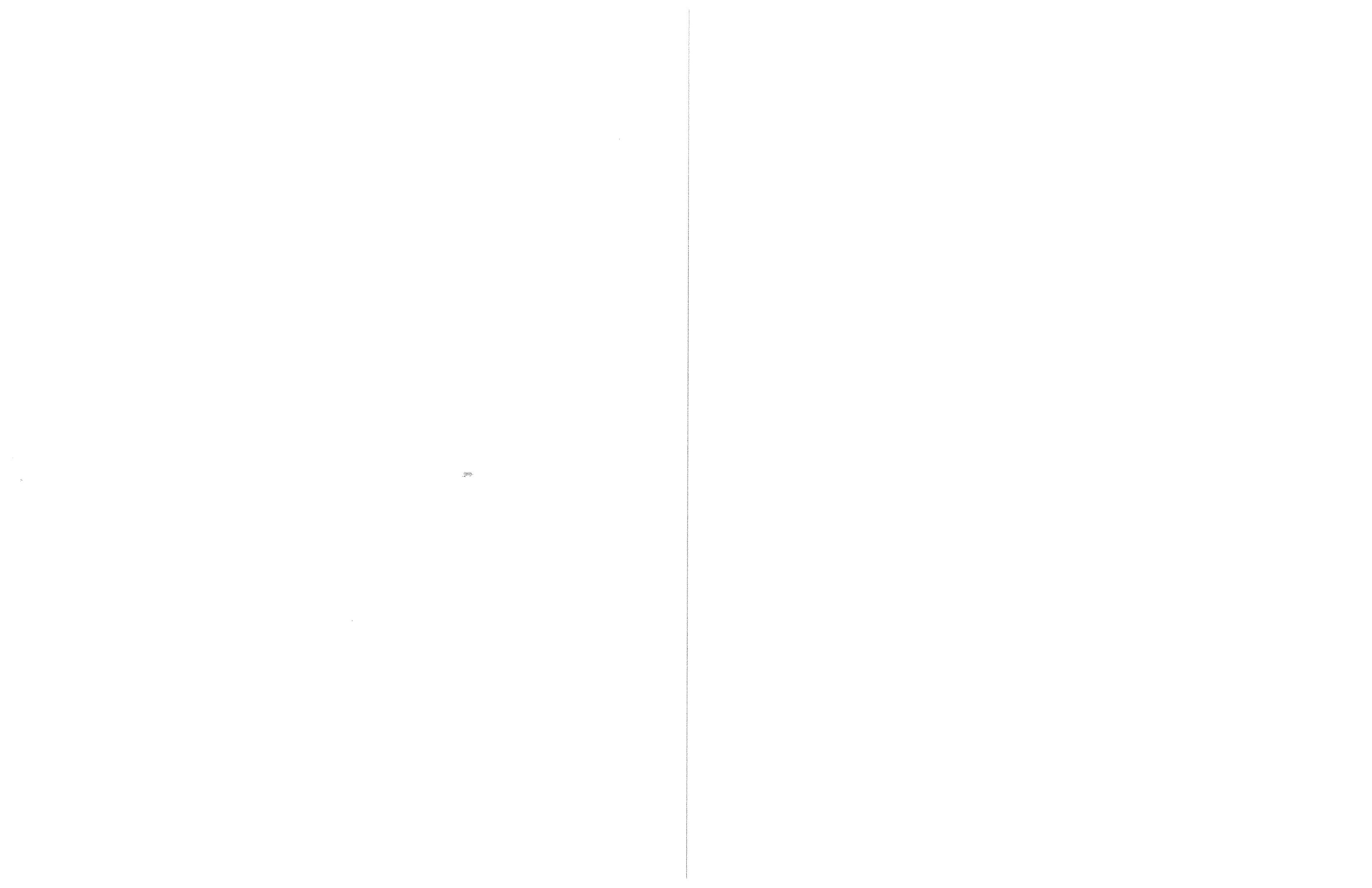
Please see Exhibit D

11. A letter of intent from the tower owner committing the tower owner and successors to allow the shared use of the tower if additional users agree in writing to meet reasonable terms and conditions for shared use.

Please see Exhibit E

B. Exhibits to the application for the conditional use permit under the terms of Subdivision 2 are evidence concerning the feasibility of the proposed request and its effect on surrounding property. It includes a site plan (Exhibit A) defining the areas to be developed for the structure, the locations of driveways, and the points of ingress and egress, including access roads. There are no additional walls, sewage, or water supply to the property needed.

Exhibit A



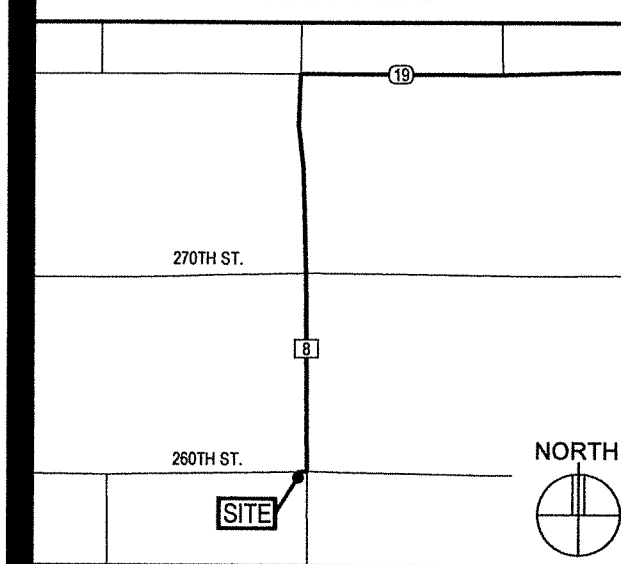


MN08 MILROY NEW BUILD

PROJECT INFORMATION

SITE NAME: MN08 MILROY
 SITE ADDRESS: 260TH STREET
 MILROY, MN 56263
 COUNTY: REDWOOD
 LATITUDE: N 44° 25' 38.82" (NAD83)
 LONGITUDE: W 95° 33' 19.10" (NAD83)
 DRAWING BASED ON
 SITE DATA FORM DATED: 08-24-17
 BUILDING TYPE: IIB
 SITE AREA: 100' x 100' = 10,000 S.F.

VICINITY MAP



SHEET INDEX

SHEET	SHEET DESCRIPTION
T-1	PROJECT INFORMATION, TOWER ELEVATION, & SHEET INDEX
A-1	SITE PLAN & DETAIL INDEX
A-2	ENLARGED SITE PLAN
A-3	ANTENNA AND EQUIPMENT KEY, CABLE BRIDGE PLAN, ANTENNA MOUNTING DETAIL & PHOTOS
A-4	OUTLINE SPECIFICATIONS
G-1	GROUNDING NOTES
G-2	GROUNDING PLAN & GROUNDING DETAIL INDEX
U-1	SITE UTILITY PLANS & NOTES
-	SURVEY

LOCATION SCAN



ISSUE SUMMARY

REV	DESCRIPTION	SHEET/DETAIL
A	ISSUED FOR REVIEW 10-02-17	ALL
B	ISSUED FOR OWNER SIGNOFF 10-20-17	ALL
C	ISSUED FOR SLAB UPGRADE 05-16-18	ALL

DEPARTMENTAL APPROVALS

JOB TITLE	NAME	DATE
RF ENGINEER	JUSTIN GARTNER	10-10-17
OPERATIONS MANAGER	MICHAEL STUDTMANN	10-03-17
CONSTRUCTION ENGINEER	ALEX HOLZINGER	10-03-17

LESSOR / LICENSOR APPROVAL

SIGNATURE	PRINTED NAME	DATE

LESSOR / LICENSOR: PLEASE CHECK THE APPROPRIATE BOX BELOW

NO CHANGES. CHANGES NEEDED. SEE COMMENTS.

CONTACTS

LESSOR / LICENSOR: PATTI CHRISTENSEN
 PO BOX 87
 MILROY, MN 56263
 (507) 261-9600

LESSEE: VERIZON WIRELESS
 10801 BUSH LAKE ROAD
 BLOOMINGTON, MN 55438
 RON REITER (612) 720-0052

POWER UTILITY COMPANY CONTACT: OTTER TAIL POWER
 PO BOX 496
 215 S CASCADE STREET
 FERGUS FALLS, MN 56538-0496
 JOE DOLD (800) 346-4920 (EXT. 6202)

TELCO UTILITY COMPANY CONTACT: T.B.D.

ARCHITECT: DESIGN 1 ARCHITECTS LLC
 9973 VALLEY VIEW ROAD
 EDEN PRAIRIE, MN 55344
 (952) 903-9299

SURVEYOR: WIDSETH SMITH NOLTING
 610 FILLMORE STREET - PO BOX 1028
 ALEXANDRIA, MN 56308-1028
 320-762-8149

STRUCTURAL ENGINEER: N/A

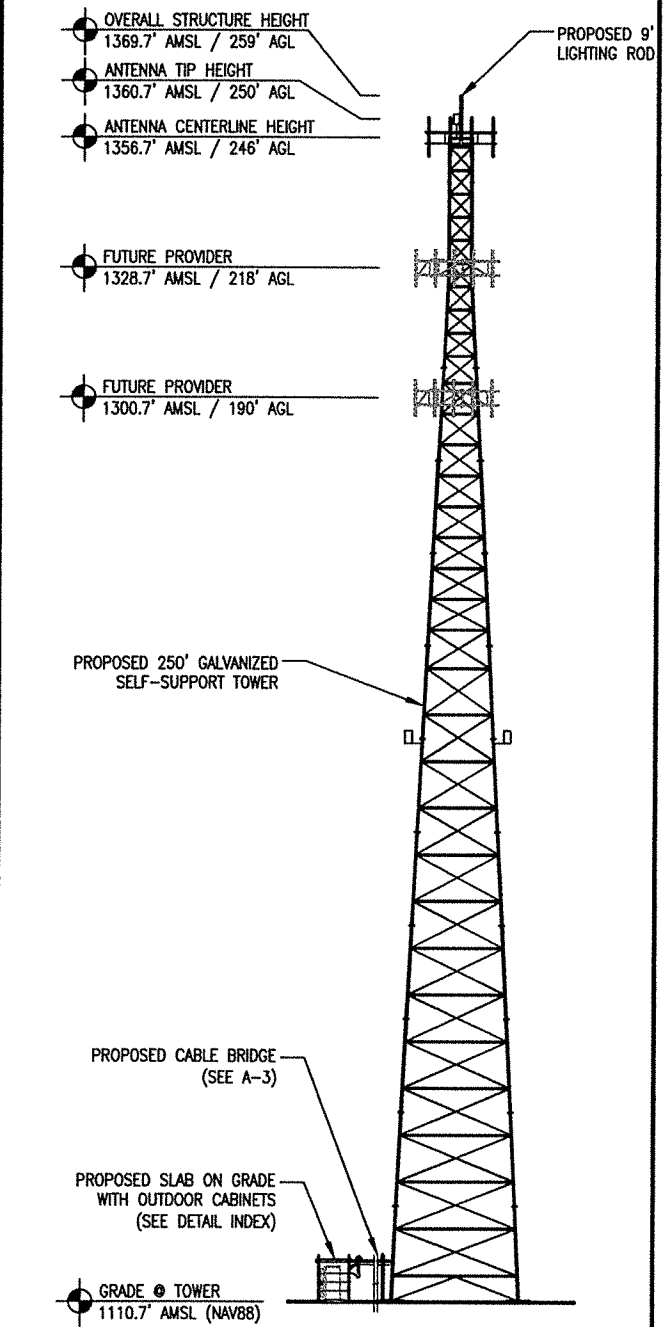
GEOTECHNICAL ENGINEER: T.B.D.

TOWER ELEVATION

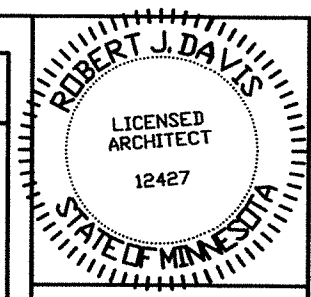
NOTE:
 1.) TOWER TO BE ERECTED AND INSTALLED IN ACCORDANCE WITH TOWER MANUFACTURER'S DRAWINGS NOT INCLUDED WITH THIS PACKAGE. DISCREPANCIES BETWEEN TOWER DRAWINGS AND ARCHITECTURAL DRAWINGS TO BE REPORTED TO VERIZON WIRELESS AND THE ARCHITECT IMMEDIATELY.

2.) TOWER FOUNDATION, CABINET FOUNDATION, GENERATOR FOUNDATION, AND THE ACCESS DRIVE TO BE EXCAVATED AND CONSTRUCTED IN ACCORDANCE WITH RECOMMENDATIONS AND SPECIFICATIONS OF THE GEOTECHNICAL REPORT WHICH IS NOT INCLUDED IN THIS PACKAGE. DISCREPANCIES BETWEEN THE REPORT AND THE OTHER DOCUMENTS TO BE IMMEDIATELY REPORTED TO VERIZON WIRELESS AND THE ARCHITECT.

3.) CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.



1 NORTH ELEVATION
 SCALE: 1" = 40'



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
 Date: 05-16-18

DESIGN 1
 9973 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55344
 (952) 903-9299
 WWW.DESIGN1EP.COM

verizon
 10801 BUSH LAKE ROAD
 BLOOMINGTON, MN 55438
 (612) 720-0052

PROJECT
 20141070225
 LOC. CODE: 297921

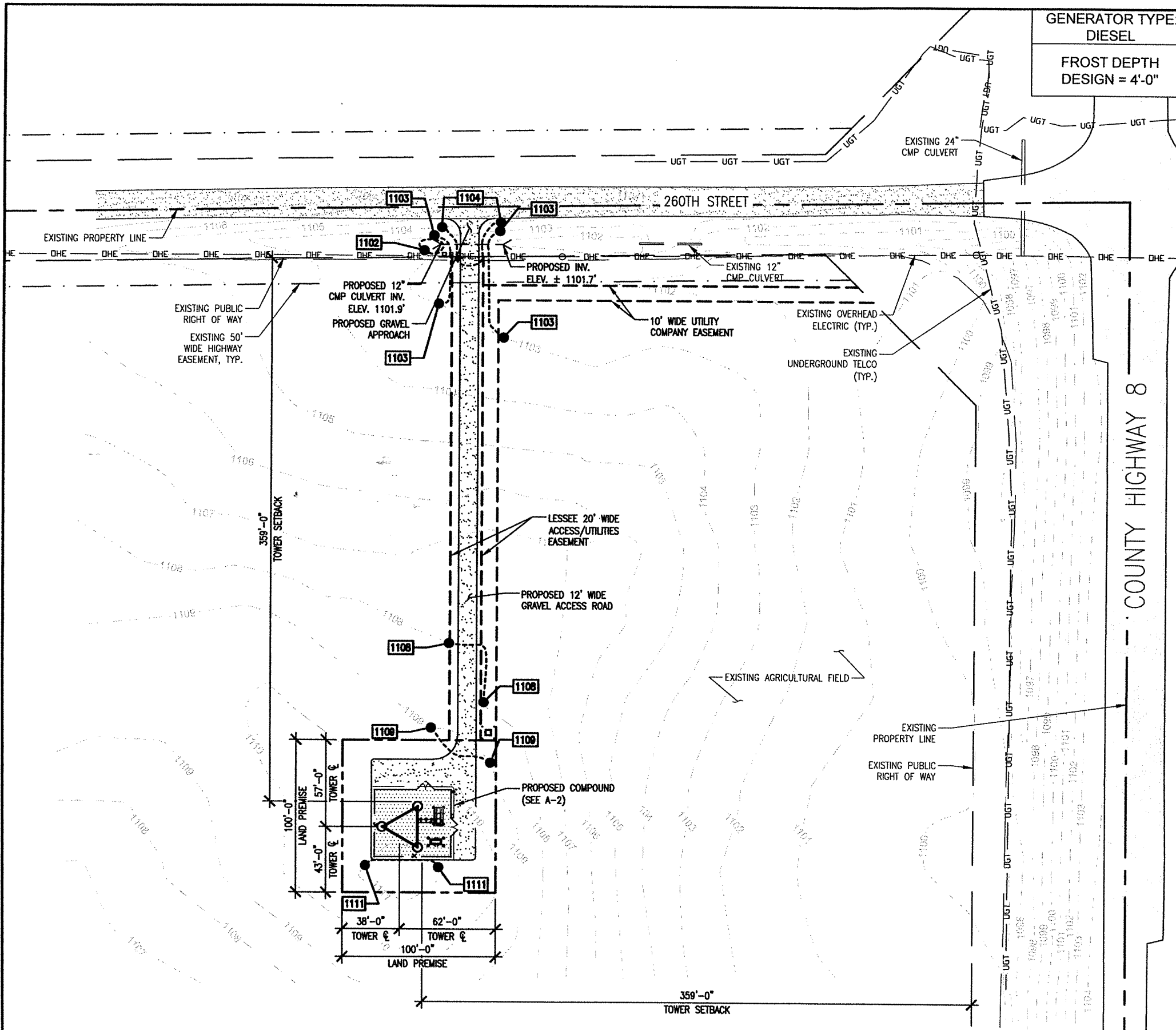
MN08 MILROY

260TH STREET
 MILROY, MN 56263

SHEET CONTENTS:
 CONTACTS
 ISSUE SUMMARY
 SHEET INDEX
 DEPARTMENTAL APPROVALS
 LESSOR APPROVAL
 PROJECT INFORMATION
 VICINITY MAP & LOCATION SCAN
 TOWER ELEVATION

DRAWN BY: JEF
 DATE: 09-19-17
 CHECKED BY: RMK
 REV. A 10-02-17
 REV. B 10-20-17
 REV. C 05-16-18

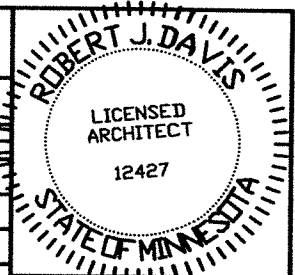
T-1



GENERATOR TYPE:
DIESEL

FROST DEPTH
DESIGN = 4'-0"

DETAIL INDEX	
DETAIL	DETAIL DESCRIPTION
SLAB	4'-0"x11'-0" SLAB ON GRADE W/ 3 CABINETS
GEN 1.4	30RE0ZK: DIESEL GENERATOR W/ ICE SHIELD
1.1	BOLLARD DETAIL
2.1	FENCE SECTION (DETAIL 2)
3.1	CABLE BRIDGE SECTION
4.1	CABLE BRIDGE ELEVATION (DETAIL 2, SIMILAR)
5.1	ROAD SECTION (DETAIL 1)
6.1	GATE DETAIL (DETAIL 1)
7.1	GPS MOUNTING DETAIL (DETAIL 2)
8.1	TELCO ENTRY DETAIL
9.1	CMPH DETAIL
10.8	ONE-LINE ELECTRICAL DIAGRAM
12.1	METER DETAIL (DETAIL 2)



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*

Date: 05-16-18

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(952) 903-9299
WWW.DESIGN1EP.COM

verizon

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0052

PROJECT
20141070225
LOC. CODE: 297921

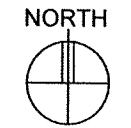
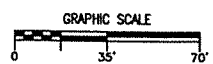
MN08 MILROY

260TH STREET
MILROY, MN 56263

SHEET CONTENTS:
SITE PLAN
DETAIL INDEX

DRAWN BY:	JEF
DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

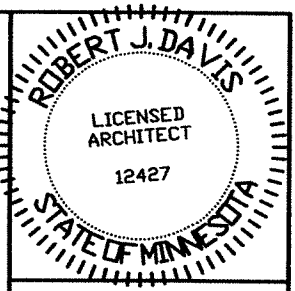
1 SITE PLAN
SCALE: 1" = 70'



A-1

NOTE:
CONTRACTOR TO COORDINATE PUBLIC AND PRIVATE
UTILITY LOCATES PRIOR TO CONSTRUCTION START.
NOTIFY THE ARCHITECT AND THE VZM
CONSTRUCTION ENGINEER IMMEDIATELY OF ANY
UTILITY LINE ISSUES.

NOTE:
CONTOURS AND PROPOSED GRADING NOT SHOWN
FOR CLARITY .



I hereby certify that this plan,
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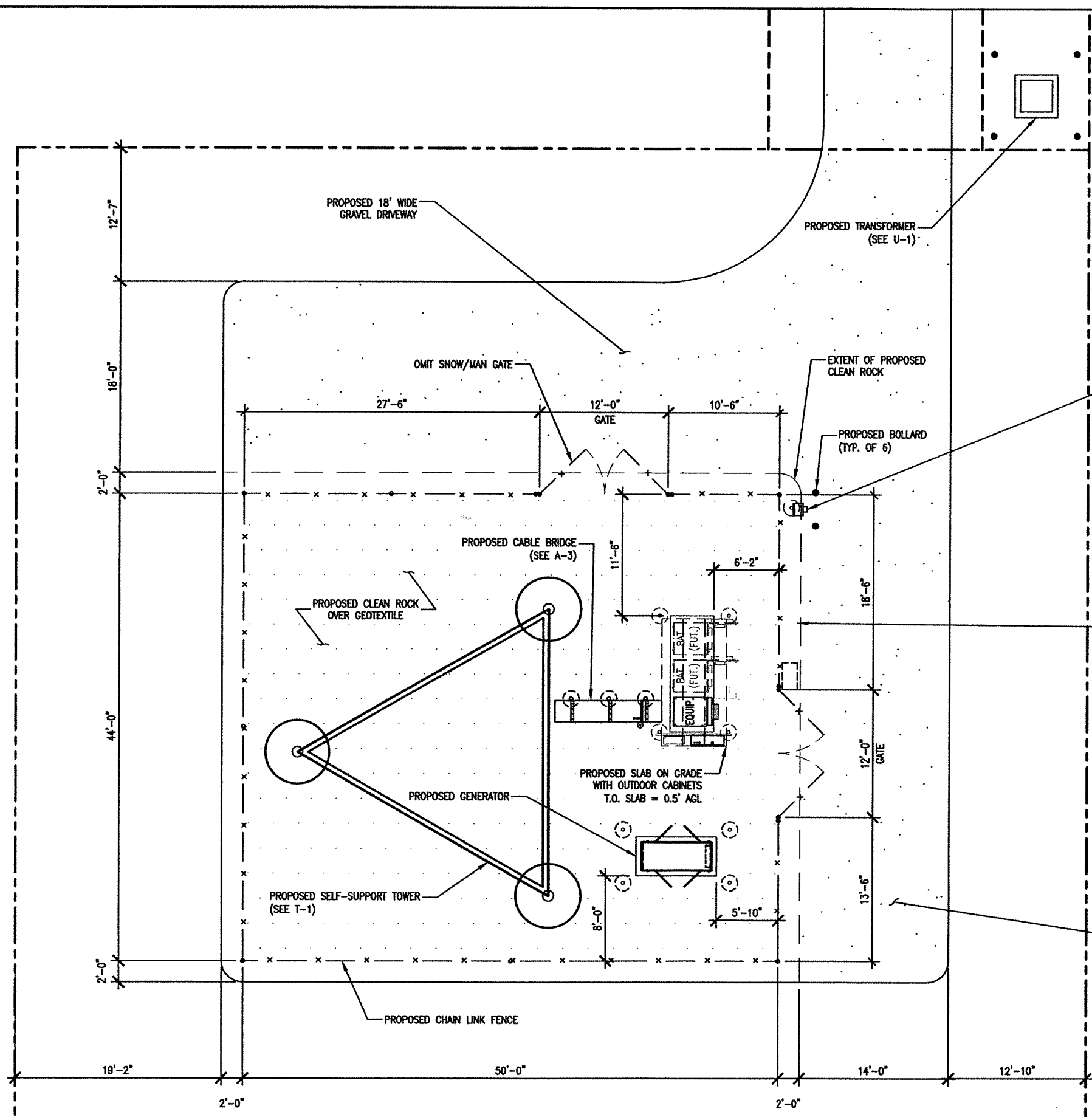
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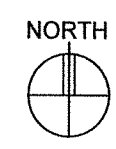
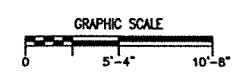
SHEET CONTENTS:
ENLARGED SITE PLAN

DRAWN BY:	JEF
DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

A-2



1 ENLARGED SITE PLAN
SCALE: 3/32" = 1'-0"



	ANTENNA KEY											EQUIPMENT KEY				
	AZIMUTH	POSITION	FUNCTION	QTY	MANUFACTURER	MODEL	MOD TYPE	ANTENNA LENGTH	ANTENNA TIP	ANTENNA CENTER	ELEC DOWNTILT	MECH DOWNTILT	QTY	MANUFACTURER	MODEL	RRU PORT
"X" SECTOR	-	1	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-
	0°	2.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	AWS +45	96"	250'	246'	0°	0°	1	ERICSSON	8843	1
	-	2.2	TX/RX2	-	-	2ND PORT	AWS -45	-	-	-	-	-	-	-	-	2
	-	2.3	TX/RX1	-	-	3RD PORT	700 +45	-	-	-	0°	0°	1	ERICSSON	4449	1
	-	2.4	TX/RX2	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	2
	-	2.5	TX/RX3	-	-	5TH PORT	AWS +45	-	-	-	0°	0°	-	ERICSSON	8843	3
	-	2.6	TX/RX4	-	-	6TH PORT	AWS -45	-	-	-	-	-	-	-	-	4
	0°	3.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	PCS +45	96"	250'	246'	0°	0°	-	ERICSSON	8843	5
	-	3.2	TX/RX2	-	-	2ND PORT	PCS -45	-	-	-	-	-	-	-	-	6
	-	3.3	TX/RX3	-	-	3RD PORT	700 +45	-	-	-	0°	0°	-	ERICSSON	4449	3
	-	3.4	TX/RX4	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	4
	-	3.5	TX/RX3	-	-	5TH PORT	PCS +45	-	-	-	0°	0°	-	ERICSSON	8843	7
-	3.6	TX/RX4	-	-	6TH PORT	PCS -45	-	-	-	-	-	-	-	-	8	
-	4	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-	
"Y" SECTOR	-	1	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-
	120°	2.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	AWS +45	96"	250'	246'	0°	0°	1	ERICSSON	8843	1
	-	2.2	TX/RX2	-	-	2ND PORT	AWS -45	-	-	-	-	-	-	-	-	2
	-	2.3	TX/RX1	-	-	3RD PORT	700 +45	-	-	-	0°	0°	1	ERICSSON	4449	1
	-	2.4	TX/RX2	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	2
	-	2.5	TX/RX3	-	-	5TH PORT	AWS +45	-	-	-	0°	0°	-	ERICSSON	8843	3
	-	2.6	TX/RX4	-	-	6TH PORT	AWS -45	-	-	-	-	-	-	-	-	4
	120°	3.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	PCS +45	96"	250'	246'	0°	0°	-	ERICSSON	8843	5
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	-	3.3	TX/RX3	-	-	3RD PORT	700 +45	-	-	-	0°	0°	-	ERICSSON	4449	3
	-	3.4	TX/RX4	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	4
	-	3.5	TX/RX3	-	-	5TH PORT	PCS +45	-	-	-	0°	0°	-	ERICSSON	8843	7
-	3.6	TX/RX4	-	-	6TH PORT	PCS -45	-	-	-	-	-	-	-	-	8	
-	4	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-	
"Z" SECTOR	-	1	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-
	240°	2.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	AWS +45	96"	250'	246'	0°	0°	1	ERICSSON	8843	1
	-	2.2	TX/RX2	-	-	2ND PORT	AWS -45	-	-	-	-	-	-	-	-	2
	-	2.3	TX/RX1	-	-	3RD PORT	700 +45	-	-	-	0°	0°	1	ERICSSON	4449	1
	-	2.4	TX/RX2	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	2
	-	2.5	TX/RX3	-	-	5TH PORT	AWS +45	-	-	-	0°	0°	-	ERICSSON	8843	3
	-	2.6	TX/RX4	-	-	6TH PORT	AWS -45	-	-	-	-	-	-	-	-	4
	240°	3.1	TX/RX1	1	COMMSCOPE	NHH-65C-R2B	PCS +45	96"	250'	246'	0°	0°	-	ERICSSON	8843	5
	-	3.2	TX/RX2	-	-	2ND PORT	PCS -45	-	-	-	-	-	-	-	-	6
	-	3.3	TX/RX3	-	-	3RD PORT	700 +45	-	-	-	0°	0°	-	ERICSSON	4449	3
	-	3.4	TX/RX4	-	-	4TH PORT	700 -45	-	-	-	-	-	-	-	-	4
	-	3.5	TX/RX3	-	-	5TH PORT	PCS +45	-	-	-	0°	0°	-	ERICSSON	8843	7
-	3.6	TX/RX4	-	-	6TH PORT	PCS -45	-	-	-	-	-	-	-	-	8	
-	4	FUTURE	-	FUTURE	FUTURE	-	-	-	-	-	-	-	-	-	-	

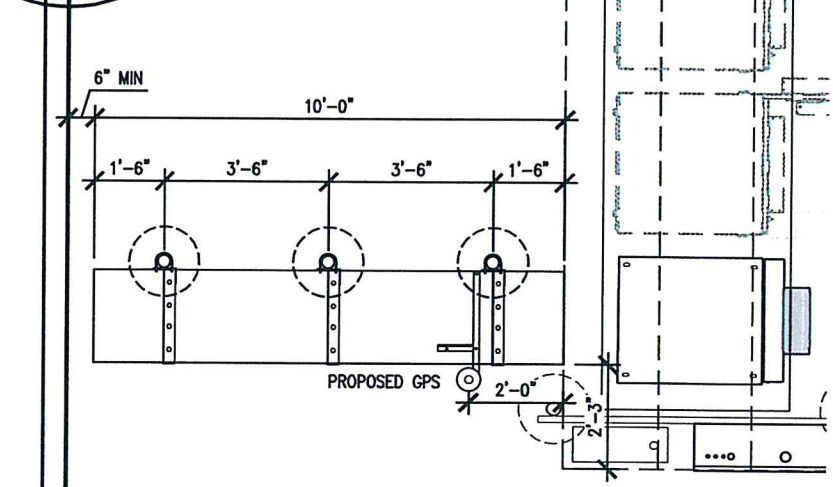
ADDITIONAL:
 (1) DISTRIBUTION BOX, MODEL RVZDC-6627-PF-48: (ON TOWER)
 (1) DISTRIBUTION BOX, MODEL RVZDC-4520-RM-48: (IN CABINETS)
 (2) COMMSCOPE HYBRID CABLE, MODEL HFT1206-24S49-270 (DIST. BOX IN CABINETS TO DIST BOX ON TOWER)
 (6) COMMSCOPE HYBRID JUMPER, MODEL HFT412-4S29-15 (DIST. BOX TO RRU)
 (36) ANDREW COAX JUMPER, MODEL LDF4-50A, 1/2"Ø FOAM DIELECTRIC, 10' EACH (RRU TO ANTENNA)

CANOPY = 14'
 CABLE BRIDGE = 10'
 RAD CENTER = 246'
 TOTAL = 270'

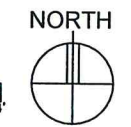
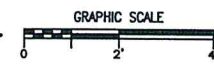
1 ANTENNA KEY

2 EQUIPMENT KEY

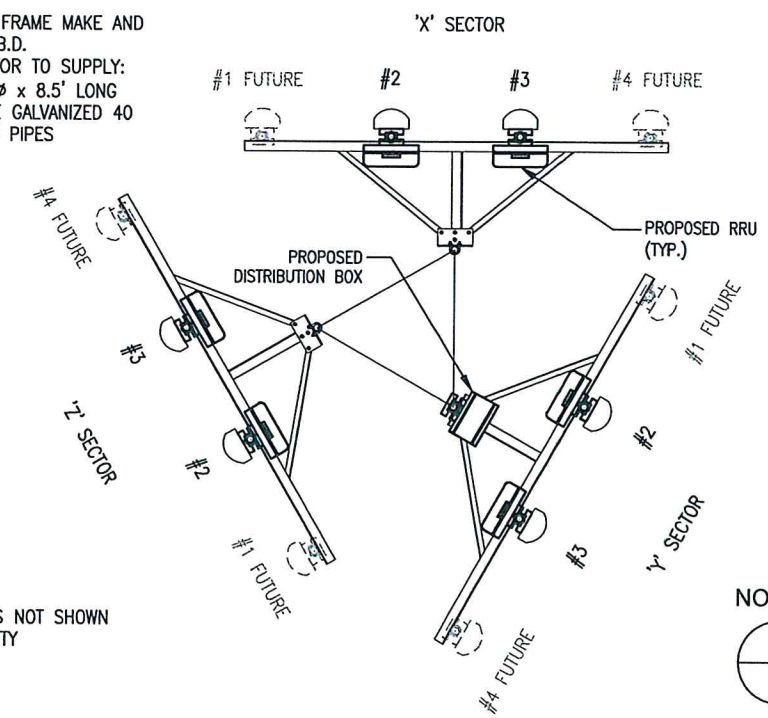
NOTE:
 CABLE BRIDGE SUPPORTS ARE REQUIRED AT INTERVALS NOT TO EXCEED 6'-0" WITH OVERHANG EXTENSIONS NOT TO EXCEED 1'-6"



3 CABLE BRIDGE PLAN
 SCALE: 1/4" = 1'-0"

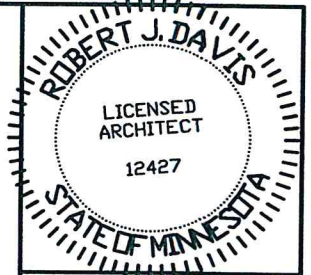
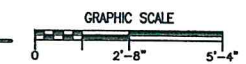


NOTE:
 ANTENNA FRAME MAKE AND MODEL T.B.D.
 CONTRACTOR TO SUPPLY:
 (12) 2.5"Ø x 8.5' LONG SCHEDULE GALVANIZED 40 MOUNTING PIPES



NOTE:
 TIE-BACKS NOT SHOWN FOR CLARITY

4 ANTENNA MOUNTING DETAIL
 SCALE: 3/16" = 1'-0"



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
 Date: 05-16-18



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PROJECT
 20141070225
 LOC. CODE: 297921

MN08 MILROY

260TH STREET
 MILROY, MN 56263

SHEET CONTENTS:
 ANTENNA & EQUIPMENT KEY
 CABLE BRIDGE PLAN
 ANTENNA MOUNTING DETAIL
 PHOTOS

DRAWN BY: JEF
 DATE: 09-19-17
 CHECKED BY: RMK
 REV. A 10-02-17
 REV. B 10-20-17
 REV. C 05-16-18



6 PHOTO: EXISTING SITE
 LOOKING SOUTHEAST



5 PHOTO: EXISTING SITE
 LOOKING SOUTH

GENERAL CONDITIONS

00 0001 PERMITS
Construction Permit shall be acquired by, or in the name of, Verizon Wireless, to be hereinafter referred to as the OWNER. Other permits shall be acquired by the Contractor.

00 0002 SURVEY FEES
Survey shall be furnished by the Architect. Layout Staking shall be coordinated with the Surveyor per "Request For Quote", (RFQ).

01 0010 INSURANCE & BONDS
Contractor is to furnish Insurance certificates for themselves and subcontractors. Contractor will provide any required Bonding. Contractor agrees to warranty the project for (1) one year after completion.

01 0400 SUPERVISION & COORDINATION
Contractor shall provide supervision throughout the Project, coordinating the work of the Subcontractors, and delivery & installation of Owner-furnished items. Contractor's responsibilities include arranging & conducting of Underground Utilities Locates. Contractor shall comply with municipal, county, state and/or federal codes, including OSHA.

01 0600 TESTING
Contractor is responsible for providing Agencies with sufficient notice to arrange for Test Samples (i.e.: Concrete Cylinders), and for Special Inspections.

01 2000 MEETINGS
Contractor shall make themselves aware of, and attend, meetings with the Owner and/or Architect. Contractor is to attend a Pre-Construction Meeting of all parties involved, prior to the start of construction.

01 5100 TEMPORARY UTILITIES
Contractor shall maintain the job site in a clean and orderly fashion, providing temporary sanitary facilities, waste disposal, and security (fence area or trailer module).

01 5300 EQUIPMENT RENTAL
Contractor shall furnish equipment necessary to expedite work.

01 5900 FIELD OFFICES & SHEDS
Contractor shall provide security (fence area or trailer module) for tools and materials that remain overnight on site.

01 7000 CLEAN UP & CLOSE OUT
Contractor shall clean up the Site to the satisfaction of Owner. Contractor shall complete the items listed on the Owner's Punch List, and shall sign and return the List to the Owner. Contractor shall maintain a set of drawings during the job, on which changes shall be noted in red ink. A full set of redlined drawings (As-Builts) are to be given to the Architect at Job completion and submit "construction work complete memo" to Construction Engineer.

01 8000 TRUCKS & MILEAGE
Contractor shall provide transportation for their own personnel.

01 8300 TRAVEL TIME & PER DIEM
Contractor shall provide room and board for their own personnel, and reasonable time for traveling to & from job site.

01 9200 TAXES
Contractor shall pay sales and/or use tax on materials and taxable services.

SITework

02 1000 SITE PREPARATION
Contractor is to mobilize within 7 calendar days of the Owner issuing a "START" document. Contractor will immediately report to Architect if any environmental considerations arise. Site shall be scraped to a depth of 3" minimum to remove vegetative matter, and scrapings shall be stockpiled on site. Excess material to be disposed of in accordance with RFQ.

02 1100 ROAD IMPROVEMENT & CONSTRUCTION
Contractor shall furnish materials for, and install, a twelve foot (12') wide gravel driveway from the road access to the work area, for truck and crane access to site. Base course shall be 6" deep, 3" crushed rock, topped with 3" deep, 1 1/2" crushed rock, topped with 3" deep MN Class 5 Aggregate, (3/4" minus with binder) or Driveway Mix. Contractor shall furnish & install culverts as necessary to prevent ponding or washing-out from normal surface runoff. Contractor shall obtain city, county, state and/or federal approvals for road approach and culvert work within or adjacent to right-of ways. Road shall be graded smooth, and edges dressed, at job completion.

02 2000 EARTHWORK & EXCAVATION
Excavation material shall be used for surface grading as necessary; excess to be stockpiled on site. Excess material to be disposed of in accordance with RFQ. For dewatering excavated areas, contractor shall utilize sock or sediment filter for filtering of water discharge.

02 5000 PAVING & SURFACING
Gravel paving shall be as described in 02 1100.

02 7800 POWER TO SITE
Contractor shall coordinate the electrical service to the building with the Utility Provider. Conduits shall include pull strings. Underground conduits shall be 2-1/2" Schedule 40 PVC. (schedule 80 PVC under roads and drives) Cable to be 3/0 THWN CU. Trenches shall be backfilled in a timely fashion, using a compactor, and including two (2) detectable ribbons; one each at 3" and 15" above conduit. Service shall be 200 amp, single phase, 120/240 volt. Service type shall be "General Time-Of-Day" if available, and meter base shall be approved by utility provider. Contractor to provide and install Carlon expansion joint connections at equipment cabinet location per manufacturer's specifications and recommendations.

02 7900 TELCO TO SITE
Contractor shall provide 2" SDR-11 HDPE conduit for fiber conduit as noted on Drawings when directional boring is utilized. Contractor shall provide 2" schedule 40 PVC conduit and 2" schedule 80 PVC conduit under roadways with large-sweep elbows for fiber conduit as noted on Drawings when hand trenched. Trenches shall be as in 02 7800.

Contractor to provide and install handholes as noted in the Drawings. Additional handholes shall be provided and installed a maximum of 500 feet on center; at 90° bends if directional boring; and every third bend if hand trenched. Handholes size per Drawings and traffic-rated in roadways.

Contractor to provide and install Carlon expansion joint connections at equipment cabinet location per manufacturer's specifications and recommendations.

02 8000 SITE IMPROVEMENTS
Areas bounded by fence and adjacent to Equipment Cabinets shall receive polyethylene geotextile, 200 mesh woven, topped with 3" deep 3/4" to 1 1/2" clean rock (no fines), raked smooth

02 8001 FENCING
All fence materials and fittings shall be galvanized steel. Fence shall be 6'-0" high x 9 ga. X 2" chain link fabric, w/ 7 ga. bottom tension wire. Corner and Gate posts shall be 2 7/8" O.D. sch 40 steel pipe, driven to frost depth plus 1' below grade. Line posts shall be 2 3/8" O.D. sch 40 steel pipe. Top Rails shall be 1 5/8" O.D. steel pipe. Gate frames shall be 1 5/8" O.D. welded pipe. Fence top shall be three (3) strands barbed wire to 7'-0" above grade, canted outward. Bracing shall be 3/8" truss rods and 1 5/8" O.D. pipe mid-rails at corners. Gate latch shall be commercial grade, "Cargo" or equal. Fabric shall extend to within 1" of finish grade. Fence enclosures shall be completed within 7 days of tower erecting and Contractor shall provide for temporary security fence at base of Tower.

02 8500 IRRIGATION SYSTEMS
N/A

02 9000 LANDSCAPING
N/A

CONCRETE

03 1000 CONCRETE FORMWORK
Concrete forms shall be dimension lumber, modular, or steel.

03 6000 GROUT
Contractor shall grout baseplates according to Tower Manufacturer drawings.

03 8000 TOWER FOUNDATION
Contractor shall arrange for delivery of anchors, and shall furnish and install materials per Tower Manufacturer Plans. Tower foundation concrete and reinforcing to be per tower manufacturer's specification. Contractor shall comply with the Owner's Standard CONSTRUCTION SPECIFICATIONS MINIMUM CONCRETE STANDARDS.

03 8001 CATHODIC PROTECTION
N/A

03 9000 EQUIPMENT CABINET/GENERATOR FOUNDATION
Contractor shall furnish & install materials for Equipment Cabinet/Generator foundation. Concrete shall be 6% ±1% air entrained, and 4,000 psi at 28 days. All reinforcing steel is to be Grade 60 (ASTM 615). Anchor bolts are furnished by Contractor. Contractor shall comply with the Owner's Standard CONSTRUCTION SPECIFICATIONS MINIMUM CONCRETE STANDARDS.

MASONRY
N/A

METALS

05 0000 METALS
Contractor will furnish and install steel shapes and fabricated steel items not specifically furnished by Owner, and install Owner-furnished materials. Fabrication and erection of steel items per AWS standards. Welding shall conform to AWS standards. Fabrications shall be shop welded and galvanized before delivery to site unless noted otherwise.

Steel shapes shall meet ASTM A36 and steel pipe ASTM A53 Grade B. Steel shapes and fabrications shall be hot-dip galvanized per ASTM A123 with minimum coating thickness Grade 55 (2.2 mil). Bolts shall meet ASTM F3125 and U-bolts SAE J429 Grade 5 minimum. Bolts and hardware to be hot-dip galvanized per ASTM A153. Field repair of galvanized coatings shall be per ASTM A780.

WOOD & PLASTICS
N/A

THERMAL & MOISTURE
N/A

DOORS AND HARDWARE
N/A

FINISHES

09 9000 PAINTING
N/A

SPECIAL CONSTRUCTION

13 1260 CABLE BRIDGE, CANOPY, & ICE SHIELDS
Contractor shall furnish & install materials for the Cable Bridge as indicated on the drawings and Verizon Wireless Standard Details.

Contractor shall furnish & install materials for the Generator, Dist. Box, & I.L.C. Ice Shields as indicated on the Drawings & Verizon Wireless Standard Details.

13 1400 ANTENNA INSTALL
Contractor shall install Owner's antennas and feed lines during erecting. Contractor shall test and certify feed lines per current VZW standards.

13 3423 TRANSPORT AND SET EQUIPMENT CABINETS/GENERATOR
Contractor shall provide crane(s) and/or truck for transporting, setting and erecting Equipment Cabinets/Generator per RFQ. Contractor shall install items shipped loose with the Equipment Cabinets/Generator.

13 3613 TRANSPORT AND ERECT TOWER/ANTENNA MOUNTS
Contractor shall schedule delivery of Owner-furnished Tower, and provide cranes for unloading and erecting. Contractor to install antenna mounts. Contractor shall ensure the existence of a 3/8" cable safety climb (DBI/Sala or equal) on the Tower.

MECHANICAL

15 4000 PLUMBING
N/A

15 5000 HVAC
N/A

ELECTRIC

16 5000 LIGHTING AND ELECTRICAL
Contractor shall provide labor and materials as necessary to complete the work shown on Drawings including items shipped loose with the Equipment Platform/Generator assembly.

16 6000 GROUNDING
Contractor shall make themselves familiar with and follow the current GROUNDING STANDARDS OF VERIZON WIRELESS. Contractor shall perform work as shown on Grounding Plans. Any site-specific grounding issues not covered by the GROUNDING STANDARD are to be addressed by the Contractor to the Owner.

OWNER-FURNISHED EQUIPMENT & FEES

EQUIPMENT CABINETS
GENERATOR
SELF-SUPPORT TOWER
ANTENNA PLATFORM/T-FRAMES
COAX AND/OR CABLES
ANTENNAS & DOWNTILT BRACKETS
GPS & GPS MOUNTING
BUILDING PERMIT FEES
MATERIALS TESTING FEES
SPECIAL INSPECTIONS FEES

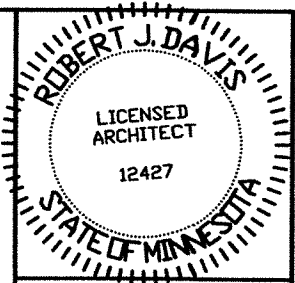
CONTRACTOR-FURNISHED EQUIPMENT

POWER TO SITE
TELCO TO SITE
CABLE BRIDGE MATERIALS & ICE SHIELDS
GROUNDING MATERIALS
FENCING
CONNECTORS, BOOTS, & RELATED HARDWARE

SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERVISION, ETC. TO FULLY EXECUTE WORK. WORK REQUIREMENTS ARE DETAILED ON THE DRAWINGS AND SPECIFICATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

SITE PREPARATION
SITE WORK & DRIVEWAY CONSTRUCTION
EQUIPMENT CABINET, GENERATOR, & TOWER FOUNDATIONS
SET EQUIPMENT CABINETS, SET GENERATOR, & ERECT TOWER
ROUTING OF GROUND, POWER, FIBER & ALARM
SITE GROUNDING
ELECTRICAL & TELEPHONE SERVICES
INSTALL ANTENNAS & CABLES
CABLE BRIDGE & ICE SHIELDS
GRAVEL SURFACING & FENCING
INSTALL RF BARRIERS & SIGNAGE
TOWER LIGHTING IF PER RFQ

Contractor to compare drawings against Owner's "Request for Quote", (RFQ). If discrepancies arise, Contractor shall verify with Owner that the RFQ supersedes the drawings.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*

05-16-18
Date:



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PROJECT
20141070225
LOC. CODE: 297921

MN08 MILROY

260TH STREET
MILROY, MN 56263

SHEET CONTENTS:
OUTLINE SPECIFICATIONS

DRAWN BY:	JEF
DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

GENERAL GROUNDING NOTES:

An external buried ground ring (Lead 1) shall be established around the equipment cabinet and tower foundations. Lead 1 shall be kept 24" from foundations; if foundations are less than 48" apart, keep Lead 1 centered between them. If the tower base is over 20'-0" from the equipment cabinets, a separate Lead 1 shall be established around each foundation, and the two Lead 1s shall be bonded with two parallel leads at least 6 feet apart horizontally. Connections between the two Lead 1s shall be bi-directional.

All subgrade connections shall be by exothermic weld, brazed weld, or gas-tight UL467-listed compression fittings pre-filled with anti-oxidant compound. Subgrade connections shall not be 'cold galvanize' coated.

Lead 1 shall be #2 solid bare tin-clad (SBTC) copper wire buried at local frost depth. Lead 1 bends shall be minimum 24" radius. 'Whip' lead bends may be of 12" radius.

Ground rods shall be galvanized steel, 5/8"Ø, spaced twenty feet apart, or as shown. Rods shall be kept min. 24 inches from foundations. Ground rods are required to be installed at their full specified length. Depth shall be as shown in Detail 11.1 in the Design 1 Standard Detail Booklet.

SPECIAL CONSIDERATIONS FOR GROUND RODS:

When ground rods are not specified to be backfilled w/ Bentonite Slurry: If boulders, bedrock, or other obstructions prevent driving of ground rods, the Contractor will need to have drilling equipment bore a hole for ground rod placement. Hole to be backfilled w/ Bentonite Slurry.

When specified with slurred Bentonite encasement, drilling equipment will be used to bore a hole for ground rod placement. Slurry shall be made from pelletized material ("Grounding Gravel"); powdered Bentonite is not allowed. If boulders, bedrock, or other obstructions are found, Contractor shall drill to the specified depth and provide Bentonite encasements.

Above-grade connections shall be by lugs w/ two-hole tongues unless noted otherwise, joined to solid leads by welding (T&B 54856BE "BROWN"), self-threading (RECOGNIZED, EM 2522DH.75.312), or 10,000psi crimping (BURNDY YA3C 2TC 14E2). Surfaces that are galvanized or coated shall have coating(s) removed prior to bolting. Bolts shall be stainless steel with flat washers on each side of the connection and a lock washer beneath the fastening nut. Star-tooth washers shall be used between lug & dissimilar metal (copper-to-steel, etc) but are not required between tin-clad CU lugs & tin-clad CU bus bars. Lug tongues shall be coated with anti-oxidant compound, and excess compound wiped clean after bolting. The connection shall then be coated with cold-galvanizing compound, or with color-matching paint.

Ground bars exposed to weather shall be tin-clad copper, and shall be clean of any oxidation prior to lug bolting.

Galvanized items shall have zinc removed within 1" of weld area, and below lug surface contact area. After welding or bolting, the joint shall be coated with cold galvanizing compound.

Ground Bar leads

Ground bars are isolated electrically from tower bottoms and equipment cabinets by their standoff mounts. Leads from each ground bar to the ground ring shall be a pair of #2 SBTC, each connected to Lead 1 bi-directionally with #2 SBTC 'jumpers'. Pairs of #2 SBTC may be required between ground bars. Leads shall be routed to ground bars as follows:

- * The Main Ground Bar (MGB), typically mounted adjacent to ILC.
- * The Port Ground Bars (PGB), mounted inside and outside on the equipment shelter walls beneath the transmission line port. Note: Transmission line grounds also attach to the PGBs.
- * The Tower Ground Bar (TGB) mounted at the base of the tower. Note: Transmission line grounds also attach to the TGBs.

NOTE: Contractor shall confirm that TGBs exist at 75-foot vertical intervals on any guyed or self-support tower, and that transmission lines are grounded to each TGB. Only the bottom-most TGB is isolated from the tower steel frame; upper TGBs may use the tower steel frame as common ground, requiring no copper leads between TGBs.

#2 SBTC Whip leads

"Whip" leads shall connect the buried external ground ring to the following items:

Self-Support Towers:

- * Two whips to flange(s) on each tower leg base. If none are provided, attach to the baseplate or consult tower manufacturer.

Fences:

Metallic fence within 25 feet of tower Lead 1, or within 6 feet of shelter lead 1, shall have whip leads as follows:

- * Each corner post.
- * Each pair of gate posts.
- * Any line post over 20'-0" from a grounded post.
- * Each gate leaf to its respective gatepost using braided strap (3/4", tin-clad copper w/ lug ends).
- * Fences around guy anchors shall be grounded in similar fashion.

Fuel tanks:

NEVER WELD to any fuel enclosure. NEVER penetrate the fuel containment. Metal tanks shall have one whip lead attached. Use an approved clamp or two-hole lug on an available flange.

Equipment Cabinets and Other General Requirements (including but not limited to):

- * Extend new Lead 21B up to shelter halo, remaking two-way connections as needed. Generator-equipped shelters have 6 such connections. Connections within the shelter shall be by compression; NEVER weld inside the shelter.
- * Each vertical support pipe of the exterior cable bridge. Bridge end shall be kept at least 6" from the tower structure. The cable bridge shall be jumpered to the vertical support pipes with #2 SBTC at each vertical support pipe.
- * Opposite corners of the steel equipment platform.
- * Opposite corners of the roof shield over the equipment shelter.
- * Each HVAC unit shield, if separate (may be 'jumpered' to main roof shield).
- * Each HVAC package unit.
- * Commercial electric meter box.
- * Generator receptacle, if present.
- * Steel building skid, if shelter is metal frame.
- * Each air intake or exhaust fan vent louver.
- * Each generator vent hood or louver.
- * Generator exhaust stack, external.
- * Opposite corners of generator support frame, if separate from shelter.
- * Generator fuel tank, if separate from generator unit.
- * Host building rain gutter, downspouts, and roof flashings within 25 feet.
- * Telco MPOP (Main Point of Presence), if external to equipment shelter.
- * Within cable vaults, one each to the ladder and to the manhole rim.

Note: The door frame is connected to the interior ground halo, and need no separate connection to the external ground ring.

Inspection & Testing

Test lead #1 and ground rods after installation but before backfilling or connecting to any other grounding, using the 3-point fall of potential method. Contractor to notify Verizon Wireless senior construction engineer at least 48 hours prior to testing. Document installation and test results with photographs.

SYMBOL AND NOTE LEGEND

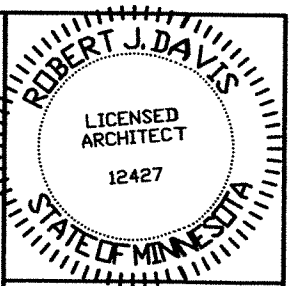
- ① #2 SBTC AROUND EQUIPMENT CABINETS, TOWER, OR GUY ANCHOR
- 5/8" X 10'-0" GALVANIZED STEEL GROUND ROD
- ⊙ TEST WELL PREFERRED LOCATION
- #2 SBTC 'WHIP' LEAD
- ⑤ (2) #2 SBTC FROM MGB, PGB, OR TGB TO LEAD 1
- ⑥ AC HVAC UNIT
- ②1B BUILDING CORNER
- ⑥ BO BOLLARD
- ⑥ CBS CABLE BRIDGE SUPPORT POST
- ⑥ CL CAMLOCK
- ④ EL ELECTRICAL SERVICE GROUND
- ④ EM COMMERCIAL ELECTRICAL METER
- ⑥ FAN GUY ANCHOR PLATE
- ⑥ FP FENCE POST
- ⑥0 GEN GENERATOR
- ⊕ GP GATE POST, 3/4" BRAID STRAP TO LEAF
- ⑥ GPS GPS UNIT
- ⑥ GUY GUY WIRE, MECH. CLAMP ONLY - NO WELDS
- ⑥ HL HOOD OR LOUVER
- ⑥ HB OUTSIDE OF HOFFMAN BOX
- ⑥ ILC INTEGRATED LOAD CENTER
- ⑥ MGB MAIN GROUND BAR
- ⑥ MU GENERATOR MUFFLER
- ⑥ PGB PORT GROUND BAR
- ⑥ RBR FOUNDATION REINFORCING
- ⑥ RS ROOF SHIELD
- ⑥ SB STEEL BEAM
- ⑥ SP STEEL POST
- ⑥ STP STEEL PLATFORM
- ⑥ TEL HOFFMAN BOX
- ⑥ TGB TOWER GROUND BAR
- ⑥ TWR TOWER BASE
- ⑥ VP DIESEL FUEL VENT PIPE

Note:

Contractor to provide #2 solid bare tin-clad (SBTC) copper wire lead from #1 ground ring to air conditioner & ice shield if provided by VZW.

LEAD IDENTIFICATION & DESCRIPTION:

1 RING, EXTERNAL BURIED w/ RODS	#2 SBTC
1A RING, CONCRETE ENCASED	#2 SBTC
2 DEEP ANODE (TO IMPROVE OHMS)	ROD OR PIPE
3 RING TO BLDG STL FRAME	#2 SBTC
4 MAIN AC PANEL NEUTRAL BUS TO (2) GROUND RODS, ISOLATED FROM LEAD #1	NEC 250.66
5 RING TO GROUND BAR	(2) #2 SBTC
6 RING TO EXT MTL OBJECT	#2 SBTC
7 DEEP ANODE TO MGB	NSTD33-9
8 AC PANEL TO WATER METER	NEC 250.66
9 EXT WATER TO INT WATER PIPES	NSTD33-9
10 INT WATER PIPE TO MGB	NSTD33-9
11-12 NOT USED	
13 AC PANEL TO MGB	NSTD33-9
14 MGB/FGB TO BLDG STL FRAME	#2/0 I-STR
14C MGB/FGB TO ROOF/WALL MTL PNL	#1/0 I-STR
15 MGB/FGB TO FGB--HE SAME FLOOR	#2/0 I-STR
16 NOT USED	
16A ECPGB TO CABLE ENTRY RACK	#1/0 I-STR
17 MGB TO CABLE SHIELDING	#6 I-STR
17A ECPGB TO CABLE SHIELDING	#6 I-STR
17B MGB/FGB TO F-O SPLICE SHELF	#1 I-STR
18 LOWEST MGB/FGB TO HIGHEST FGB	#2/0 I-STR
19 LEAD 18 TO OTHER FGBs, <6'	#2/0 I-STR
20 MGB/FGB TO BRANCH AC PNL	#6 I-STR
20A NEAREST GRND TO DISCONNECT PNL	NEC 250.66
20B GWB TO AC DISTR PNL	#6 I-STR
21 MGB/FGB TO INT HALO	#2 I-STR
21A INTERIOR 'GREEN' HALO	#2 I-STR
21B INT HALO TO EXT RING	#2 SBTC
21C INT HALO TO EQUIPMENT MTL	#6 I-STR
22 ROOF TOWER RING TO ROOF GRND	NFPA 780
23 MGB/FGB TO ECPGB, SAME FLOOR	#1 I-STR
23A MGB/FGB TO CXR-HF LINR PROT	#6 I-STR
24 ECPGB TO EACH PROTECTOR ASSEMBLY	#6 I-STR
24A LOWER PROT ASSY TO UPPER	#6 I-STR
25 RING TO NEAREST LIGHTNING ROD	#2 SBTC
26 LGHTNG ROD SYS TO NEARBY MTL	NFPA 780
27 RING TO TOWER RING	(2) #2 SBTC
28 RING TO SHELTER RING	(2) #2 SBTC
29 BRANCH AC PNL TO BTTY CHG FRM	NSTD33-11
30 BRANCH AC PNL TO OUTLETS	NSTD33-11
31 MGB/FGB TO PWR, BTTY FRAMES	#2/0 I-STR
32 #31 TO BATTERY CHARGER FRAME	#6 I-STR
33 #31 TO BATTERY RACK FRAME	#6 I-STR
34 #31 TO PCU FRAME	#6 I-STR
35 #31 TO DSU FRAME	#6 I-STR
36 #31 TO PDU FRAME	#6 I-STR
37 MGB/FGB TO BTTY RETURN	NSTD33-14.5
37A MGB/FGB TO RTN TERM CARR SUPP	#6 I-STR
38 FGB TO PDU GB	#750MCM I-STR
38A FGB TO PDU GB CARRIER SUPPLY	#2/0 I-STR
39 DC BUS DUCT TO NEXT SECTION	#6 I-STR
40 DC BUS DUCT TO MGB/FGB	#6 I-STR
41A MGB/FGB TO #58	#2/0 I-STR
42-44 NOT USED	
45 MAIN AC PNL TO BRANCH AC PNL	NSTD33-11
46 BRANCH AC PNL TO DED OUTLET	NSTD33-11
47 FGB TO INTEG FRM	#2 I-STR
48 LEAD #31 TO INTEG FRM	#6 I-STR
49 INTEG FRM TO EQUIP SHELF	BY FASTENERS
50 PDU BTTY RET TO #51	#2/0 I-STR
51 #50 TO TRANS FRM ISO DC PWR	#6 I-STR
52 TRANS FRM FUSE TO FRM OR BAR	#8 I-STR
53A MGB/FGB TO PDF/BDFB	NSTD33-22
54 MGB/FGB TO STATIC DEVICES	#6 I-STR
55 MGB/FGB TO CABLE AT ENTRY	#6 I-STR
56 MGB/FGB TO AC PWR RADIO XMTR	#6 I-STR
57A MGB/FGB TO CBL GRID/RUNWAY	#2/0 I-STR
58A #41A TO AISLE FRAME	#2 I-STR
59A #58A TO EACH SCL FRAME GRND	#6 I-STR
60-89 NOT USED	
90 GENERATOR FRAME TO EXT RING	#2 SBTC



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
Date: 05-16-18

DESIGN 1
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299
WWW.DESIGN1EP.COM

verizon
10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(612) 720-0052

PROJECT
20141070225
LOC. CODE: 297921

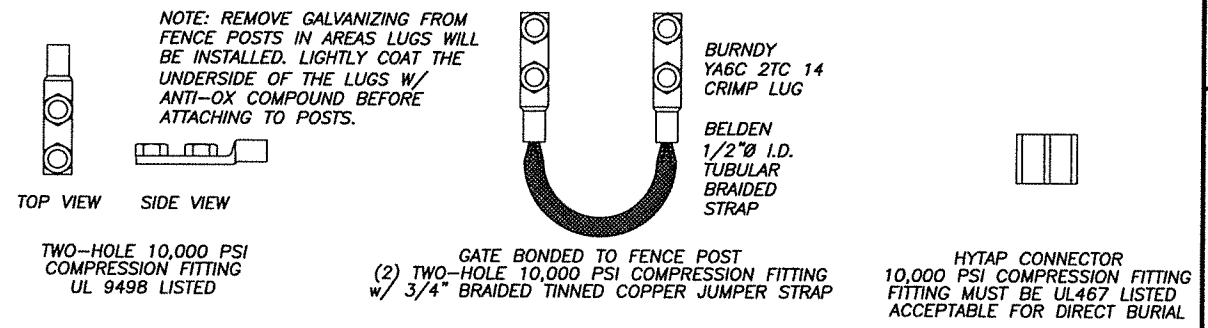
MN08 MILROY

260TH STREET
MILROY, MN 56263

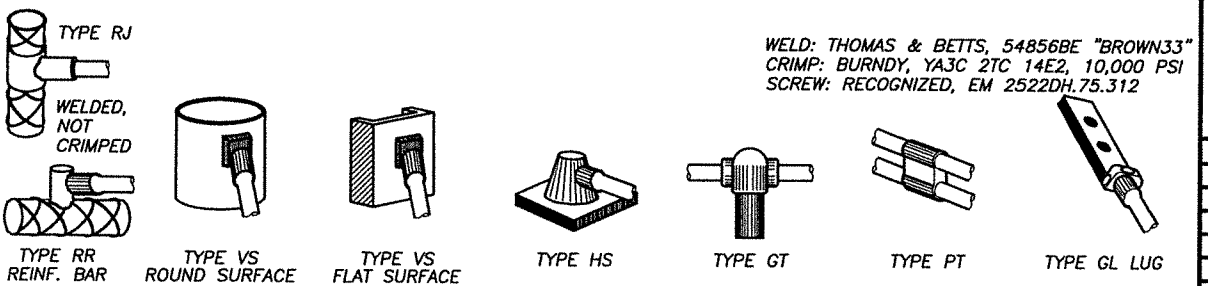
SHEET CONTENTS:
GROUNDING NOTES

DRAWN BY:	JEF
DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

G-1

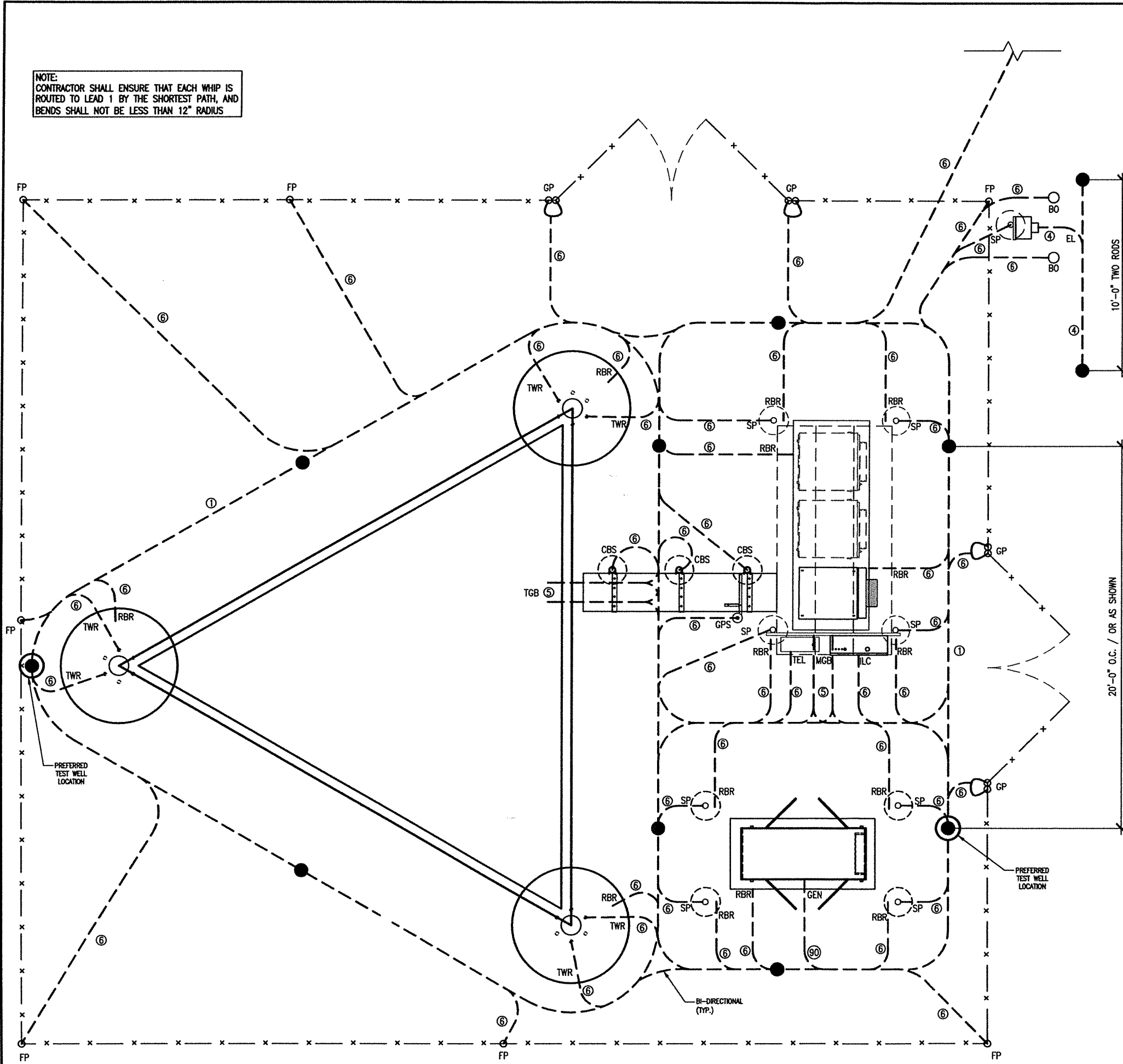


2 COMPRESSION CONNECTOR DETAILS
SCALE: NTS



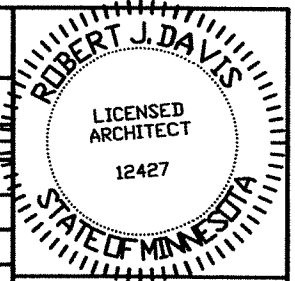
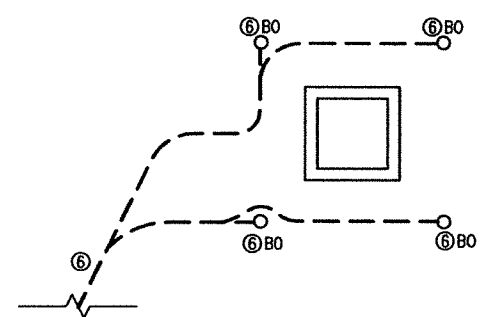
1 EXOTHERMIC WELD DETAILS
SCALE: NTS

NOTE:
CONTRACTOR SHALL ENSURE THAT EACH WHIP IS
ROUTED TO LEAD 1 BY THE SHORTEST PATH, AND
BENDS SHALL NOT BE LESS THAN 12" RADIUS



GROUNDING DETAIL INDEX

DETAIL	DETAIL DESCRIPTION
SLAB	SLAB ON GRADE GROUNDING
11.1	TEST WELL DETAIL, GROUND RING & ROD DETAIL
11.3	REBAR GROUNDING DETAIL
11.4	CONDUIT DETAIL
11.5	TYPICAL GROUNDING CABLE BRIDGE DETAIL
11.6	TYPICAL TOWER GROUNDING DETAIL



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota.
ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
Date: 05-16-18



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PROJECT
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LOC. CODE: 297921

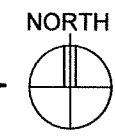
MN08 MILROY

260TH STREET
MILROY, MN 56263

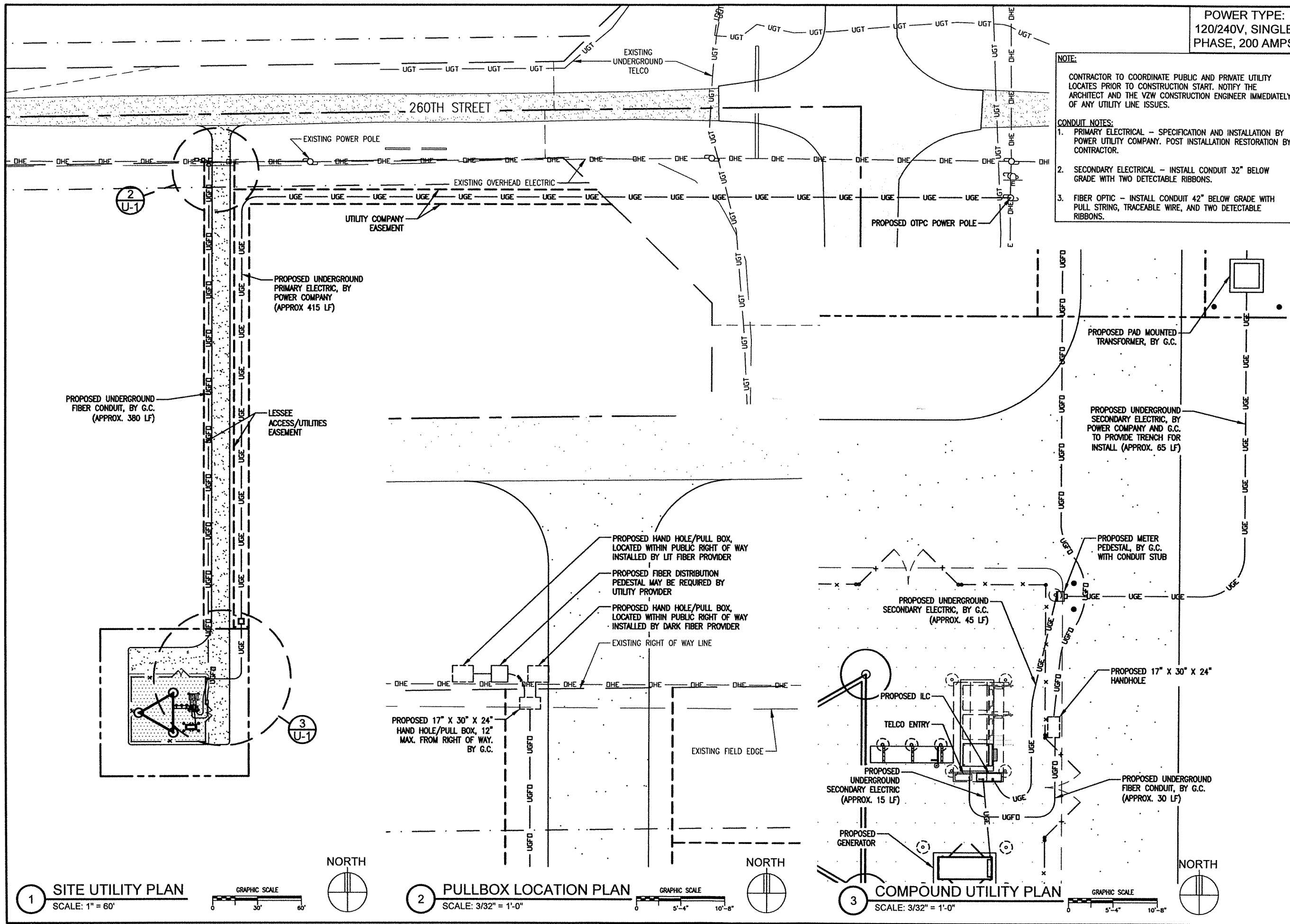
SHEET CONTENTS:
GROUNDING PLAN
GROUNDING DETAIL INDEX

DRAWN BY:	JEF
DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

1 GROUNDING PLAN
SCALE: NTS

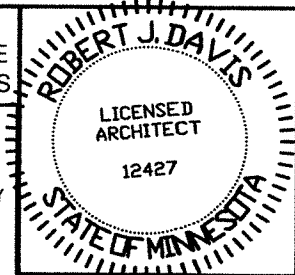


G-2



POWER TYPE:
120/240V, SINGLE
PHASE, 200 AMPS

- NOTE:**
CONTRACTOR TO COORDINATE PUBLIC AND PRIVATE UTILITY LOCATES PRIOR TO CONSTRUCTION START. NOTIFY THE ARCHITECT AND THE VZM CONSTRUCTION ENGINEER IMMEDIATELY OF ANY UTILITY LINE ISSUES.
- CONDUIT NOTES:**
1. PRIMARY ELECTRICAL - SPECIFICATION AND INSTALLATION BY POWER UTILITY COMPANY. POST INSTALLATION RESTORATION BY CONTRACTOR.
 2. SECONDARY ELECTRICAL - INSTALL CONDUIT 32" BELOW GRADE WITH TWO DETECTABLE RIBBONS.
 3. FIBER OPTIC - INSTALL CONDUIT 42" BELOW GRADE WITH PULL STRING, TRACEABLE WIRE, AND TWO DETECTABLE RIBBONS.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of the State of Minnesota. ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
Date: 05-16-18

DESIGN 1

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verizon

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(612) 720-0052

PROJECT
20141070225
LOC. CODE: 297921

MN08 MILROY

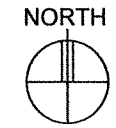
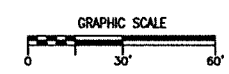
260TH STREET
MILROY, MN 56263

SHEET CONTENTS:
SITE UTILITY PLANS
HANDHOLE LOCATION PLAN
COMPOUND UTILITY PLAN

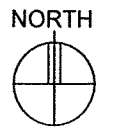
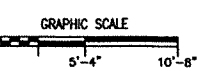
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DATE:	09-19-17
CHECKED BY:	RMK
REV. A	10-02-17
REV. B	10-20-17
REV. C	05-16-18

U-1

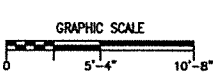
1 SITE UTILITY PLAN
SCALE: 1" = 60'



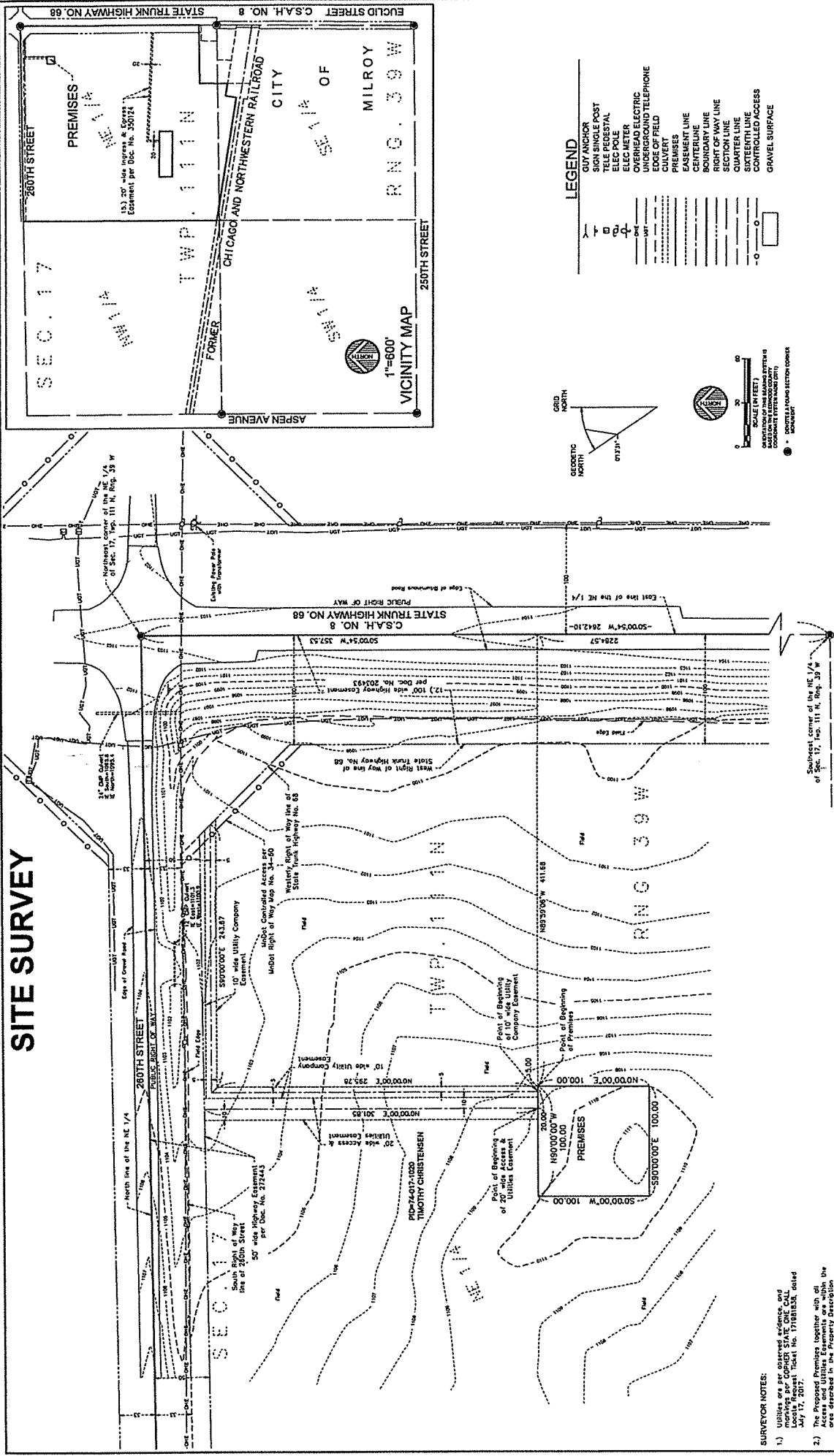
2 PULLBOX LOCATION PLAN
SCALE: 3/32" = 1'-0"



3 COMPOUND UTILITY PLAN
SCALE: 3/32" = 1'-0"



SITE SURVEY



SITE NAME:
MN08 MILROY
Redwood County, MN

No.	DATE	BY	CHK.	APPD.
1		SMK	JRM	

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IN ACCORDANCE WITH THE STATUTES AND RULES UNDER THE LAWS OF THE STATE OF MINNESOTA.

WIDSETH SMITH NOLTING
Engineering | Architecture | Surveying | Environmental

DATE: 11/25/11
LEICOR: 7 2021

ALL SCALE OR ENLARGED SCALE DRAWING
DATE: 11/25/11
DRAWN BY: SMK

© 2011 WIDSETH SMITH NOLTING

SHEET 2 OF 2 SHEETS

Exhibit B

David Hendrixon

From: Matthew (Matt) Bennett [REDACTED]
Sent: Friday, May 18, 2018 2:19 PM
To: David Hendrixon
Cc: Chris Barton; Christopher ALAN Coughlin; Ruch, Justin
Subject: RE: [E] FW: Engineer Confirmation Needed_MN08 Milroy_05.18.18

David,

Neither of those tower heights will accommodate Verizon's need to improve service in this area. The height is too short to serve the amount of area necessary with the intention of the Milroy Site, Also, the current distance between Milroy and the next closest sites is too great for 130' to be effective.

Thanks,
Matt

From: David Hendrixon [mailto:David.Hendrixon@ntpwireless.com]
Sent: Friday, May 18, 2018 1:11 PM
To: [REDACTED]
Cc: Chris Barton; Christopher ALAN Coughlin
Subject: [E] FW: Engineer Confirmation Needed_MN08 Milroy_05.18.18

Hi Matt,

I received Justin Ruch's out of office message. Are you able to help with the below and provide confirmation by COB today? Our filing deadline is this Monday, May 21. Verizon is proposing a 250' tower at this site.

Thank you,

DAVID HENDRIXON
Solution Specialist, Site Acquisition
NTP Wireless
773-904-2810

From: David Hendrixon
Sent: Friday, May 18, 2018 11:22 AM
To: Ruch, Justin Scott [REDACTED]
Cc: Chris Barton [REDACTED]; Christopher ALAN Coughlin
Subject: Engineer Confirmation Needed_MN08 Milroy_05.18.18

Hi Justin,

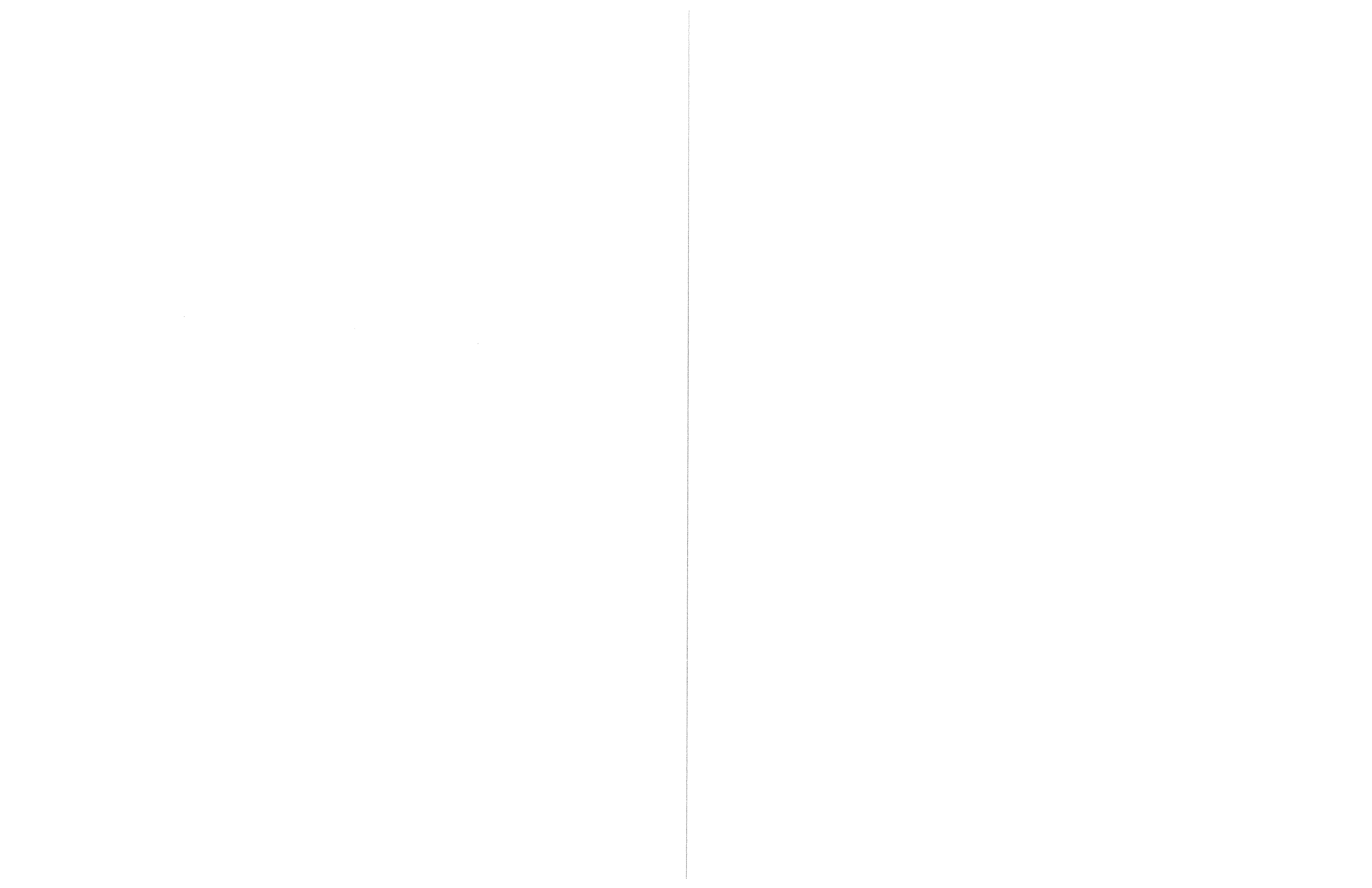
We are applying for our zoning permit for the subject site. The jurisdiction's ordinance requires colocation on existing structures within one mile unless the existing structures cannot accommodate the planned equipment at a height necessary to function reasonably as documented by a qualified professional engineer.

The Affinity tower was submitted in the original QSCIP, as attached. The water tower was not originally submitted as part of the QSCIP. Will you please confirm these structures below will not be able to accommodate VZWs needs due to their height?

Milroy Water Tower – 130' (44°24'55.91"N, 95°33'10.44"W)
Affinity Tower – 130' (44°24'58.21"N, 95°33'20.34"W)

Thank you,

DAVID HENDRIXON
Solution Specialist, Site Acquisition
NTP Wireless
773-904-2810



Alternative Structures

1-Mile radius from proposed tower location showing two alternative structures. Neither are tall enough to support Verizon's network needs.

Legend

1-Mile Search Radius



Google earth

© 2018 Google. Terms of Use

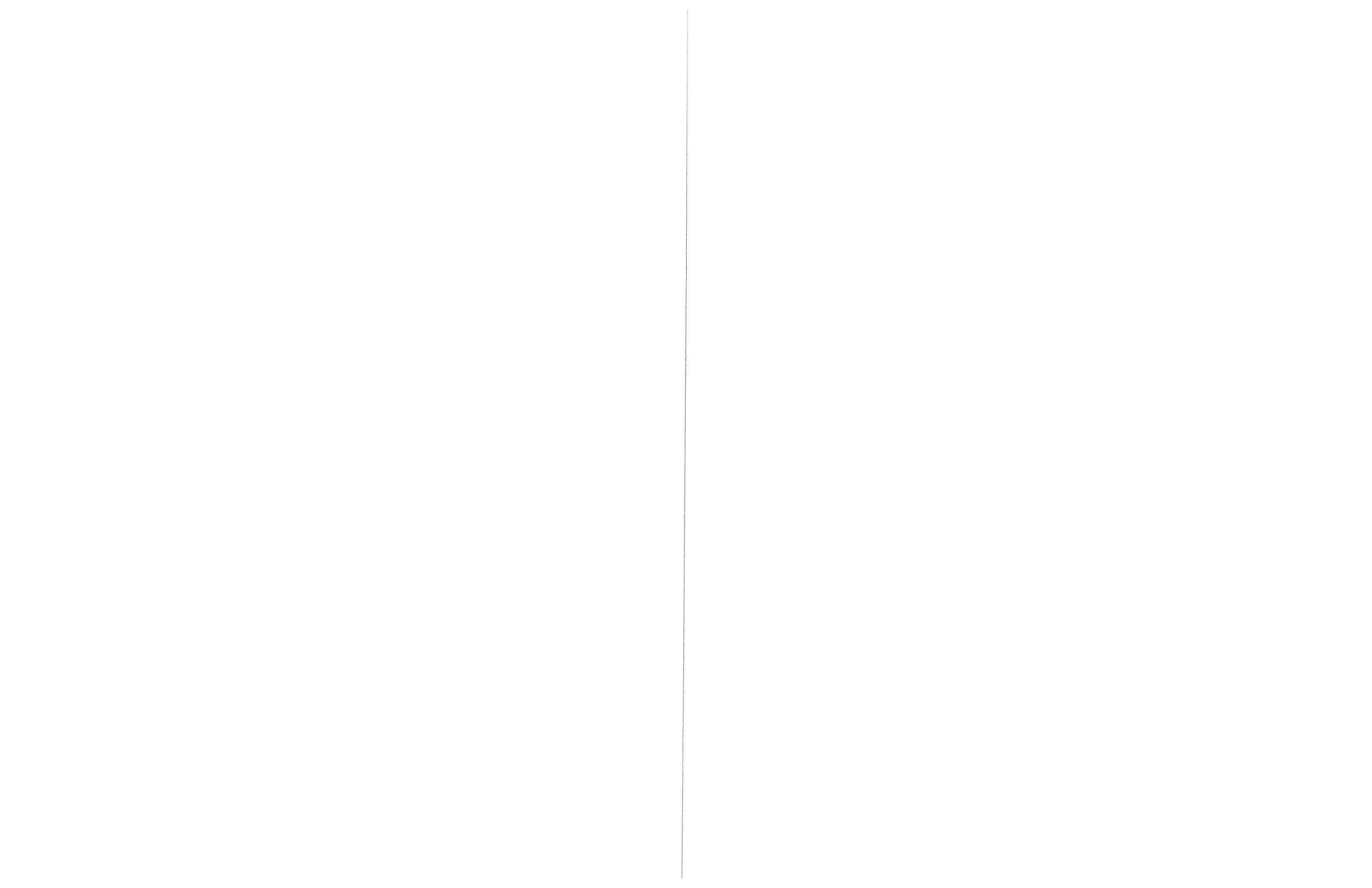


Exhibit C



May 15, 2018

Mr. Travis Rosenwald
Design 1

RE: Proposed 250' Sabre Self-supporting tower for MN08 Milroy, MN

Dear Mr. Rosenwald,

Upon receipt of order, we propose to design and supply the above referenced tower for a basic wind speed of 89 mph (115 mph ultimate per the Minnesota Building Code) with no ice and 50 mph with 3/4" radial ice in accordance with ANSI/TIA 222-G. The tower will be designed and fabricated in accordance with the Minnesota Building Code and the ANSI/TIA 222-G standard.

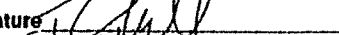
Sincerely,

Keith J. Tindall, P.E.
Vice President, Telecom Engineering

PROFESSIONAL ENGINEER

I hereby certify that this plan, specification, or report 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.

Print Name KEITH J. TINDALL

Signature 

Date 5/15/18 License #26342

Exhibit D

Callsigns

Callsigns	Market	Radio Code	Market Number	Block	State	County	Licensee Name	Wholly Owned	Total MHZ	Freq Range 1	Freq Range 2	Freq Range 3	Freq Range 4	POPs/ Sq. MI	Status
KNKN422	Minnesota 8 - Lac qui Parle	CL	CMA489	B	MN	Redwood	Alltel Communications, LLC	Yes	25.000	835.000 - 845.000	880.000 - 890.000	846.500 - 849.000	891.500 - 894.000	18.3	Active
KNLG874	Mankato-Fairmont, MN	CW	BTA277	E	MN	Redwood	Alltel Communications, LLC	Yes	10.000	1885.000 - 1890.000	1965.000 - 1970.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
KNLG950	Mankato-Fairmont, MN	CW	BTA277	F	MN	Redwood	Alltel Communications, LLC	Yes	10.000	1890.000 - 1895.000	1970.000 - 1975.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
WPZA798	Minneapolis-St. Paul	CW	MTA012	B	MN	Redwood	Alltel Communications, LLC	Yes	5.000	1870.000 - 1872.500	1950.000 - 1952.500	0.000 - 0.000	0.000 - 0.000	18.3	Active
WQB1461	Minneapolis-St. Paul	CW	MTA012	B	MN	Redwood	Alltel Communications, LLC	Yes	5.000	1872.500 - 1875.000	1952.500 - 1955.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
WQGA717	Great Lakes	AW	REA003	F	MN	Redwood	Cellco Partnership	Yes	20.000	1745.000 - 1755.000	2145.000 - 2155.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
WQJQ691	Great Lakes	WU	REA003	C	MN	Redwood	Cellco Partnership	Yes	22.000	746.000 - 757.000	776.000 - 787.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
WQPZ950	Great Lakes	AW	REA003	E	MN	Redwood	Cellco Partnership	Yes	10.000	1740.000 - 1745.000	2140.000 - 2145.000	0.000 - 0.000	0.000 - 0.000	18.3	Active
WQYP274	Minnesota 8 - Lac qui Parle	AT	CMA489	G	MN	Redwood	Cellco Partnership	Yes	5.000	0.000 - 0.000	2155.000 - 2160.000	0.000 - 0.000	0.000 - 0.000	18.3	Active

Exhibit E



Verizon Wireless
10801 Bush Lake Road
Bloomington, MN 55438

May 16, 2018

Redwood County Planning Department
c/o Nick Brozek
403 S Mill St, PO Box 130
Redwood Falls, MN 56283

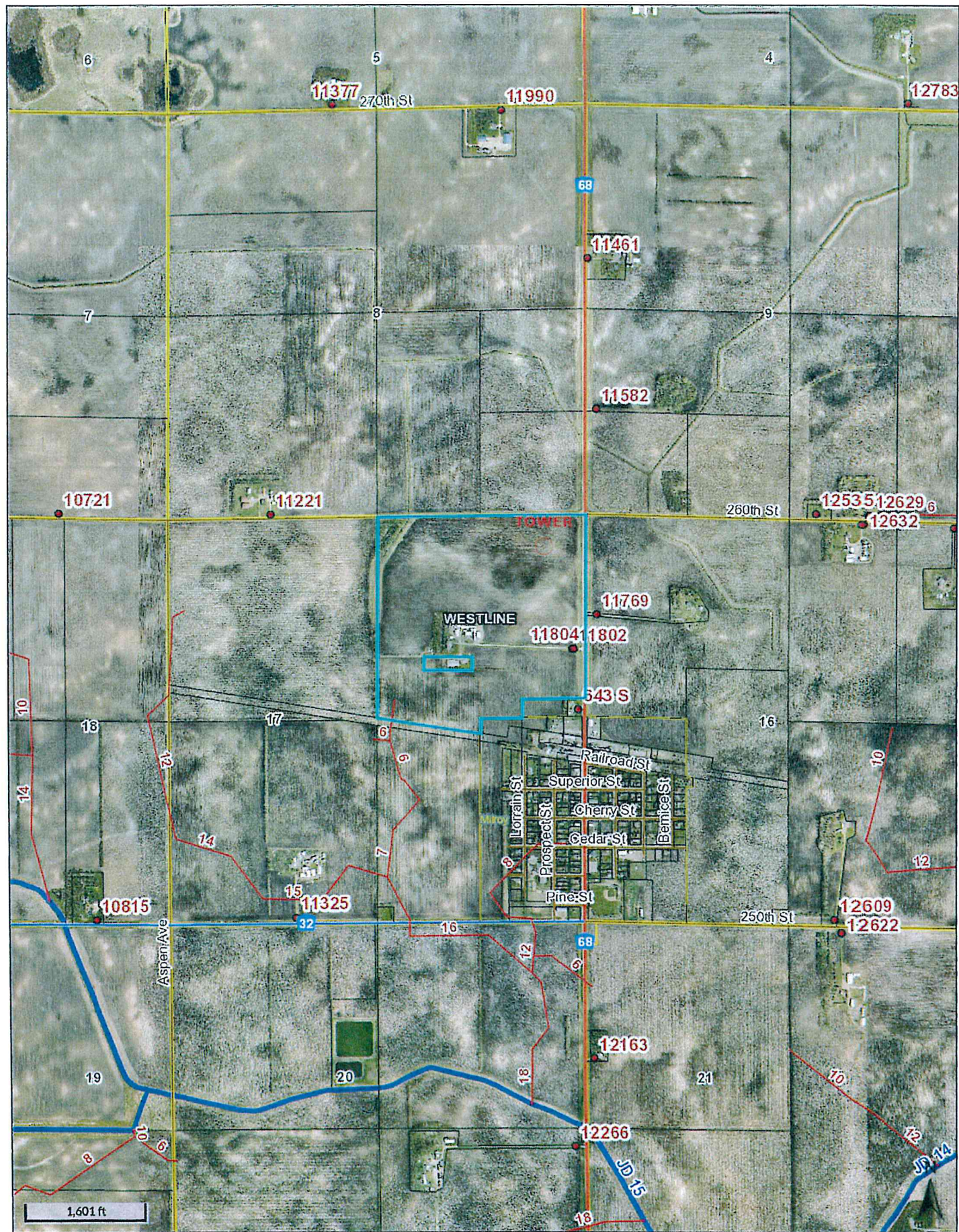
RE: Verizon Wireless Conditional Use Permit Application, MN08 Milroy

Dear Mr. Brozek,

Verizon Wireless, and its successors, hereby agree to allow shared use of the proposed tower if an additional use agrees in writing to meet reasonable terms and conditions for shared use, so long as there is no negative structural impact upon the tower and there is no disruption to the service provided.

Sincerely,

A handwritten signature in black ink, appearing to be "L. J. [unclear]", written over a horizontal line.





CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
05/18/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services Northeast, Inc. New York NY office 199 Water Street New York NY 10038-3551 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): (800) 363-0105	
	E-MAIL ADDRESS:	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED Verizon Wireless, LLC 1095 Avenue of the Americas New York NY 10036 USA	INSURER A: National Union Fire Ins Co of Pittsburgh 19445	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER:** 570071202891 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU Included GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			GL5196564	06/30/2017	06/30/2018	EACH OCCURRENCE \$4,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$4,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$4,000,000 GENERAL AGGREGATE \$4,000,000 PRODUCTS - COMPI/OP AGG \$4,000,000
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION						EACH OCCURRENCE AGGREGATE
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT

Certificate No : 570071202891

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Named Insured includes: Verizon Wireless (VZW) LLC dba Verizon wireless. RE: Site Name: MN08 Milroy, Location Code: 412906. Timothy A. Christensen is included as Additional Insured with respect to the General Liability policy. Where permitted by law, the Named Insured parties listed herein waive all Rights against the Timothy A. Christensen listed herein for recovery of damages to the extent these damages are covered by the above-referenced General Liability policy and, as further limited by written contract between the parties.

CERTIFICATE HOLDER Timothy A. Christensen PO Box 35 Milroy MN 56263 USA	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Aon Risk Services Northeast, Inc.</i>
---	---

Conditions for Permit No. 7-18 (Verizon – self supporting communications tower – Tim Christensen site)

1. The permit holder shall comply with all applicable laws, rules, and regulations, including but not limited to Redwood County Ordinance, as hereafter amended from time to time.
2. The permit holder shall allow the Redwood County Environmental Office to inspect the site(s) of the project for all purposes permitted by law whenever deemed necessary by the Redwood County Environmental Office.
3. The construction, maintenance, operation, and decommissioning of the project will conform to the Application for a Conditional Use Permit submitted by David Hendrixon of NTP Wireless as attached to the Conditional Use Permit.
4. The permit holder shall contact all relevant local, state, and federal authorities/entities and inquire as to whether a permit and/or license is required. If a permit and/or license is required, the permit holder shall apply for and obtain any and all required permits and/or licenses. A copy of all such permits and/or licenses shall be provided to the Redwood County Environmental Office upon request.
5. The permit holder shall take appropriate and reasonable measures to assure that all surface water runoff satisfies all applicable local, state, and federal discharge standards. Any drainage tile damaged during construction shall be repaired and/or replaced by the permit holder.
6. The permit holder shall not allow the conditional use to be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted. The permit holder shall not allow the conditional use to impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area.
7. The permit holder is responsible for the control of all noxious weeds on the permitted site.
8. Adequate utilities, access roads, drainage, and other necessary facilities will be provided and continue to be provided by the permit holder now and in the future.
9. Applicant, or permit holder, as used in this Conditional Use Permit to refer to Verizon, shall also include its successors and assigns.
10. The Redwood County Planning Commission shall review the conditional use permit and shall be authorized to take any and all necessary action(s), including but not limited to revoking the conditional use permit and/or requiring the permit holder to reapply for a conditional use permit, if: 1) The Redwood County Environmental Office acquires information previously unavailable that indicates the terms and conditions of the permit do not accurately represent the actual circumstances of the

permitted facility or the conditional use; 2) It is discovered subsequent to the issuance of the permit the permit holder failed to disclose all facts relevant to the issuance of the permit or submitted false or misleading information to the Redwood County Environmental Office, the Redwood County Planning Commission, or the Redwood County Board of Commissioners; 3) The Redwood County Environmental Office determines the permitted facility or conditional use endangers human health or the environment; and/or (4) The permit holder violates any of the herein described conditions.

REDWOOD COUNTY ENVIRONMENTAL OFFICE

Planning & Zoning ● Parks & Trails ● GIS
Aquatic Invasive Species ● Septic Inspector
Drainage Inspector ● Agricultural Inspector

PO BOX 130
REDWOOD FALLS
MINNESOTA 56283
PH: 507-637-4023



REDWOOD COUNTY PLANNING COMMISSION

Tim Christensen – Verizon Tower
Conditional Use Permit Application #7-18
June 25, 2018

FINDINGS OF FACT

ORDINANCE CRITERIA – The Planning Commission may recommend the granting of a Conditional Use Permit in any district provided the proposed use is listed as a conditional use for the district and upon a showing that the standards and criteria stated in this Ordinance will be satisfied and that the use is in harmony with the general purposes and intent of this Ordinance and the Comprehensive Plan.

In determining whether the proposed use is in harmony with the general purposes and intent of the Ordinance and the Comprehensive Plan, the Planning Commission shall consider and make findings on the following questions:

1) Will the proposed use have an adverse impact on the health, safety, and general welfare of the residents in the surrounding neighborhood?

Yes _____ No _____

Why?: _____

2) Has evidence been presented that shows the proposed use will cause material injury to the use and enjoyment of other property in the surrounding neighborhood for land uses that are already permitted?

Yes _____ No _____

Why?: _____

3) Will the proposed use have a substantial adverse effect on property values or future development of land in the surrounding neighborhood for uses common to the area?

Yes _____ No _____

Why?: _____

4) Are there, or will there be provided, adequate utilities, access roads, drainage, off-street parking and loading areas, and other necessary facilities to support the proposed use of the property?

Yes _____ No _____

Why?: _____

5) Have adequate measures been taken, or will adequate measures be taken, to prevent or control offensive odor, fumes, dust, noise, lights, and vibration, so that no disturbance to neighboring properties will result?

Yes _____ No _____

Why?: _____

6) Is the proposed use of the property consistent with the general purpose and intent of the Zoning Ordinance and the goals and policies adopted in the Comprehensive Plan?

Yes _____ No _____

Why?: _____

NAME: _____ DATE: _____

AFFIDAVIT OF SERVICE VIA U.S. MAIL

STATE OF MINNESOTA)
) ss
COUNTY OF REDWOOD)

RE: Application for Conditional Use Permit submitted by David Hendrixon of
NTP Wireless as agent for Verizon Wireless o/b/o landowner Tim
Christensen; Permit Application No. 7-18

I, Lali Ortega, a person not less than eighteen (18) years of age, being first duly sworn upon oath, hereby state a copy of the following:

- 1. Notice of Public Hearing on *Application for Conditional Use Permit*; and**
- 2. Notice of Public Hearing**

were duly served upon:

TIMOTHY A & KRISTINE M CHRISTENSEN
PO BOX 35
MILROY, MN 56263

THOMAS J & VICKI L WURSCHER
PO BOX 99
MILROY, MN 56263

GARY STOLP
12417 230 ST
MILROY, MN 56263

DUSTIN STOLP
605 EUCLID AVE
MILROY, MN 56263

JASON SCHWARTZ
% CAPRELO
22810 QUICKSILVER DR
STERLING, VA 20166

RICHARD H & MARY K SCHLEMMER
PO BOX 212
MILROY, MN 56263

CITY OF MILROY
PO BOX 9
MILROY, MN 56263

RITA LAVOY
PO BOX 183
MILROY, MN 56263

JASON J & LEZLIE A LAVOY
% HAROLD J LAVOY FAMILY SHARE
11221 260 ST
MILROY, MN 56263

BENJAMIN M & KAYLA J HENELMAN
403 LORRAIN ST
PO BOX 71
MILROY, MN 56263

FARMERS COOPERATIVE
ASSOCIATION OF MILROY
PO BOX 100
MILROY, MN 56263

DEAN A & LORI A DUSCHER
PO BOX 82
MILROY, MN 56263

DOUGLAS L CHRISTOPHERSON
PO BOX 198
MILROY, MN 56263

PATRICIA K CHRISTENSEN
PO BOX 87
MILROY, MN 56263

JOHN W CHRISTENSEN
11769 ST HWY 68
PO BOX 128
MILROY, MN 56263

JOHN L & JANICE CHRISTENSEN
PO BOX 7
MILROY, MN 56263

DANIEL J CHRISTENSEN TRUSTS ET'AL
11325 CO HWY 32
PO BOX 174
MILROY, MN 56263

DANIEL J & DARLA J CHRISTENSEN TRUSTS
11325 CO HWY 32
MILROY, MN 56263


EVA JEAN BOWMAN ET'AL
PO BOX 218
MILROY, MN 56263

WESTLINE TOWNSHIP BOARD
% BETSY SNYDER, CLERK
12286 220 ST
MILROY, MN 56263

CITY OF MILROY
% BETSY SNYDER, CLERK
PO BOX 9
MILROY, MN 56263

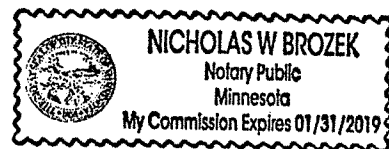
VERIZON WIRELESS
% DAVID HENRIXON, AGENT
125 S CLARK ST
CHICAGO, IL 60603

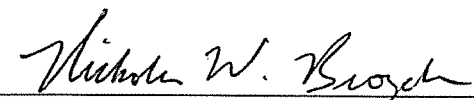
by enclosing a copy of the same in an envelope, with postage prepaid, and depositing said envelope in a United States Postal Service mailbox located at Redwood Falls, Minnesota on the 12th day of June, 2018.



Lali Ortega
Environmental Administrative Assistant

Subscribed and sworn to before me, a Notary Public, on this 12th day of June, 2018, by Nicholas W. Brozek.

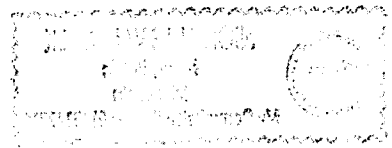




Notary Public

100

100






REDWOOD COUNTY ENVIRONMENTAL OFFICE

*Planning & Zoning • Parks & Trails • GIS
Aquatic Invasive Species • Septic Inspector
Drainage Inspector • Agricultural Inspector*

PO BOX 130
REDWOOD FALLS
MINNESOTA 56283
PH: 507-637-4023

TO: Whom It May Concern
FROM: Nick Brozek 
Land Use and Zoning Supervisor
Redwood County Environmental Office
DATE: June 12th, 2018
RE: Notice of Public Hearing on Application for Conditional Use Permit

Please find enclosed a *Notice of Public Hearing* regarding an *Application for Conditional Use Permit* filed by David Hendrixon of NTP Wireless as agent for Verizon Wireless, o/b/o landowner Tim Christensen, pursuant to Section 20 and Section 25 of Redwood County Zoning Ordinance. Verizon Wireless is proposing to construct a 250 foot self-supporting telecommunications tower (259 foot overall height including lightning rod) on the following described property, situated in the County of Redwood, State of Minnesota, to wit:

The Northeast Quarter (NE1/4), except tracts, and part of the Northwest Quarter of the Southeast Quarter (NW1/4 SE1/4) north of the railroad right-of-way, in Section 17, Township 111 North, Range 39 West, Westline Township.

Pursuant to Redwood County Zoning Ordinance, all property owners of record within five hundred (500) feet of the incorporated areas and/or one-quarter (1/4) of a mile of the affected property or the ten (10) properties nearest to the affected property, whichever would provide notice to the greatest number of landowners in the unincorporated areas, the township in which the affected property is located, and all municipalities within two (2) miles of the property are required to be notified in writing of the time and place of the public hearing.

If you have any comments or questions regarding this matter, please contact the Redwood County Environmental Office and/or attend the public hearing at the time and date set forth in the *Notice of Public Hearing*.

enclosure

Cc: David Hendrixon
Tim Christensen



REDWOOD COUNTY ENVIRONMENTAL OFFICE

*Planning & Zoning • Parks & Trails • GIS
Aquatic Invasive Species • Septic Inspector
Drainage Inspector • Agricultural Inspector*

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MINNESOTA 56283
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NOTICE OF PUBLIC HEARING

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The Northeast Quarter (NE1/4), except tracts, and part of the Northwest Quarter of the Southeast Quarter (NW1/4 SE1/4) north of the railroad right-of-way, in Section 17, Township 111 North, Range 39 West, Westline Township.

A public hearing thereon will be held before the Redwood County Planning Commission at the Planning Commission meeting scheduled at 1:00 o'clock p.m. on Monday, the 25th day of June, 2018, at the Board Room of the Redwood County Government Center located at 403 South Mill Street, Redwood Falls, MN 56283.

If you have any comments or questions regarding this matter, please contact the Redwood County Environmental Office by telephone at (507) 637-4023 or in writing at *Redwood County Environmental Office, P.O. Box 130, Redwood Falls, MN 56283.*

DATED: June 12th, 2018

Nicholas W. Brozek
Land Use and Zoning Supervisor
Redwood County Environmental Office



Legend

- CUP Notification Area
- CUP Parcel
- Township/ City
- Parcel
- Section
- Road

Scale: 0 0.075 0.15 0.3 Miles

Compass rose showing North (N), South (S), East (E), and West (W).

1/4 mile From CUP Parcel

CUP Notification Area

0.3 Miles

