



SITE NAME:	MIN BLM RNC - NODE 1
SITE ADDRESS:	10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438
COUNTY:	HENNEPIN
LATITUDE:	N 44° 48' 25.41" (NAD83)
LONGITUDE:	W 93° 22' 28.93" (NAD83)
DRAWING BASED ON SITE DATA FORM DATED:	09.03.20
CONSTRUCTION TYPE:	IIB
BUILDING CODE:	MINNESOTA STATE BUILDING CODE 2020

Map of the study area showing the intersection of West Old Shakopee Rd, West 109th St, West 110th St, Hampshire Ave S, and Bush Lake Road. A 'SITE' is marked with a pin at the intersection of West Old Shakopee Rd and Bush Lake Road. A north arrow is located in the bottom right corner.

JOB TITLE	NAME	DATE
RF ENGINEER		
OPERATIONS MANAGER		
CONSTRUCTION ENGINEER		

OWNER:	VERIZON WIRELESS 10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438 CONSTRUCTION DEPT (952) 946-4700
POWER UTILITY COMPANY CONTACT:	N/A
TELCO UTILITY COMPANY CONTACT:	T.B.D.
ARCHITECT:	DESIGN 1 ARCHITECTS LLC 9973 VALLEY VIEW ROAD EDEN PRAIRIE, MN 55344 (952) 903-9299

APPROVED
Zoning Review Only
12/04/2020 NMJ

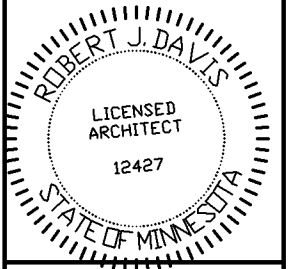
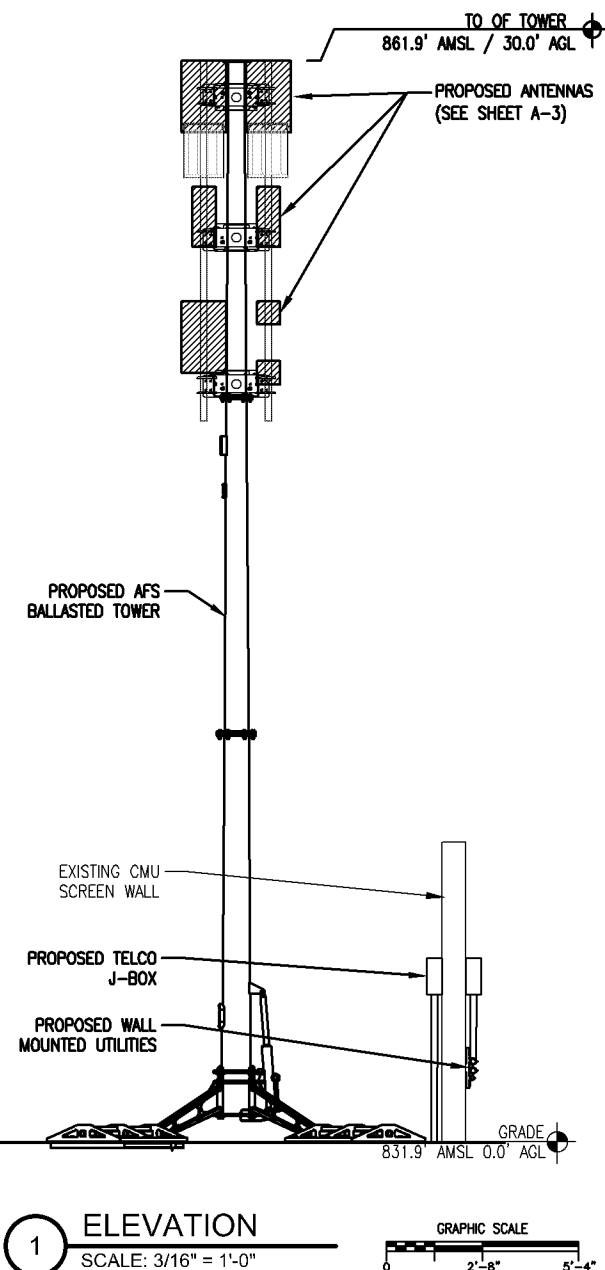
[illegible]

REV	DESCRIPTION	SHEET/DETAIL
A	ISSUED FOR REVIEW 09.14.20	ALL
A.1	ISSUED FOR REVIEW 09.15.20	ALL
B	ISSUED FOR REVIEW 09.25.20	ALL
C	ISSUED FOR REVIEW 10.08.20	ALL
D	ISSUED FOR REVIEW 10.23.20	ALL

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.) CONTRACTOR TO ENSURE TIP OF ANTENNAS DO NOT EXCEED TOWER HEIGHT.
- 3.) ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING AND STORAGE OF EQUIPMENT AND MATERIALS MUST BE ON-SITE. USE OF PUBLIC STREETS FOR PRIVATE CONSTRUCTION PARKING, LOADING/UNLOADING, AND STORAGE IS NOT PERMITTED.

NOTE:
SEE SHEET A-4 FOR ANTENNA TYPES AND HEIGHTS



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 Architect under
the laws of the state of MINNESOTA.
ROBERT J. DAVIS, Reg. No. 12427

Signed: Phyllis J. Jones
10/23/2020
Date: _____

DESIGN 1

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



10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438
(952) 946-4700

PROJECT
20202188080
LOC. CODE: 671831

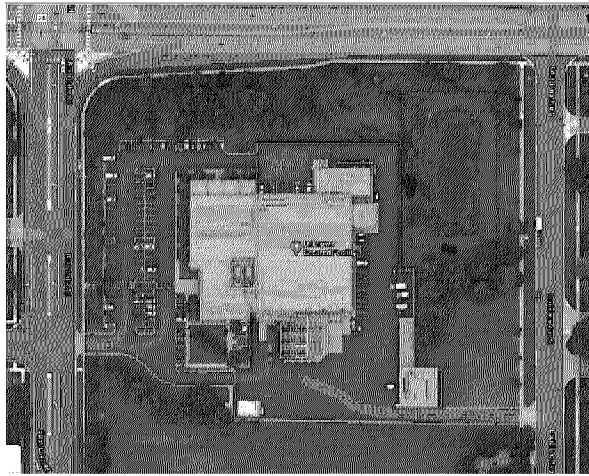
MIN
BLM RNC
NODE #1

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438

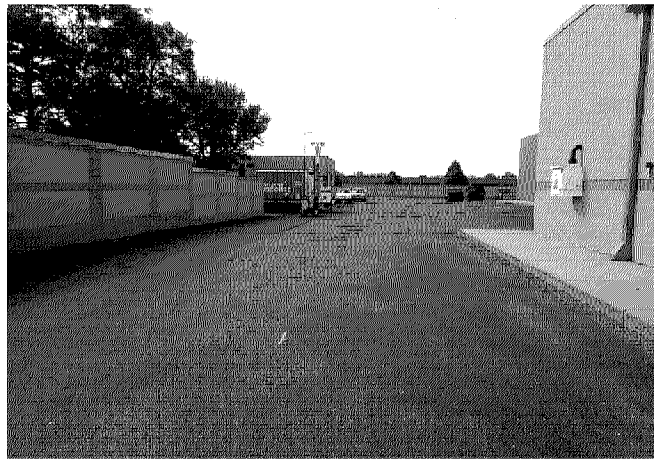
CONTACTS
ISSUE SUMMARY
SHEET INDEX
DEPARTMENTAL APPROVALS
LESSOR APPROVAL
PROJECT INFORMATION
AREA & VICINITY MAPS
GENERAL NOTES

DRAWN BY:	KJM
DATE:	09.08.20
CHECKED BY:	B.S.
REV A	09.14.20
REV A.1	09.15.20
REV B	09.25.20
REV C	10.08.20
REV D	10.23.20

T-1



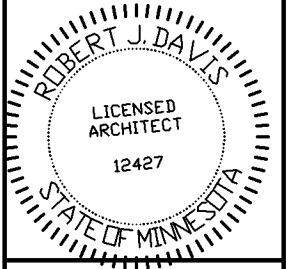
2 EXISTING CONDITION (AERIAL VIEW)
SCALE: NO SCALE



3 EXISTING CONDITION
SCALE: NO SCALE



4 EXISTING CONDITION
SCALE: NO SCALE



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 Architect under the laws of the state of MINNESOTA.
ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
Date: 10/23/2020

DESIGN 1

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verizon

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PROJECT
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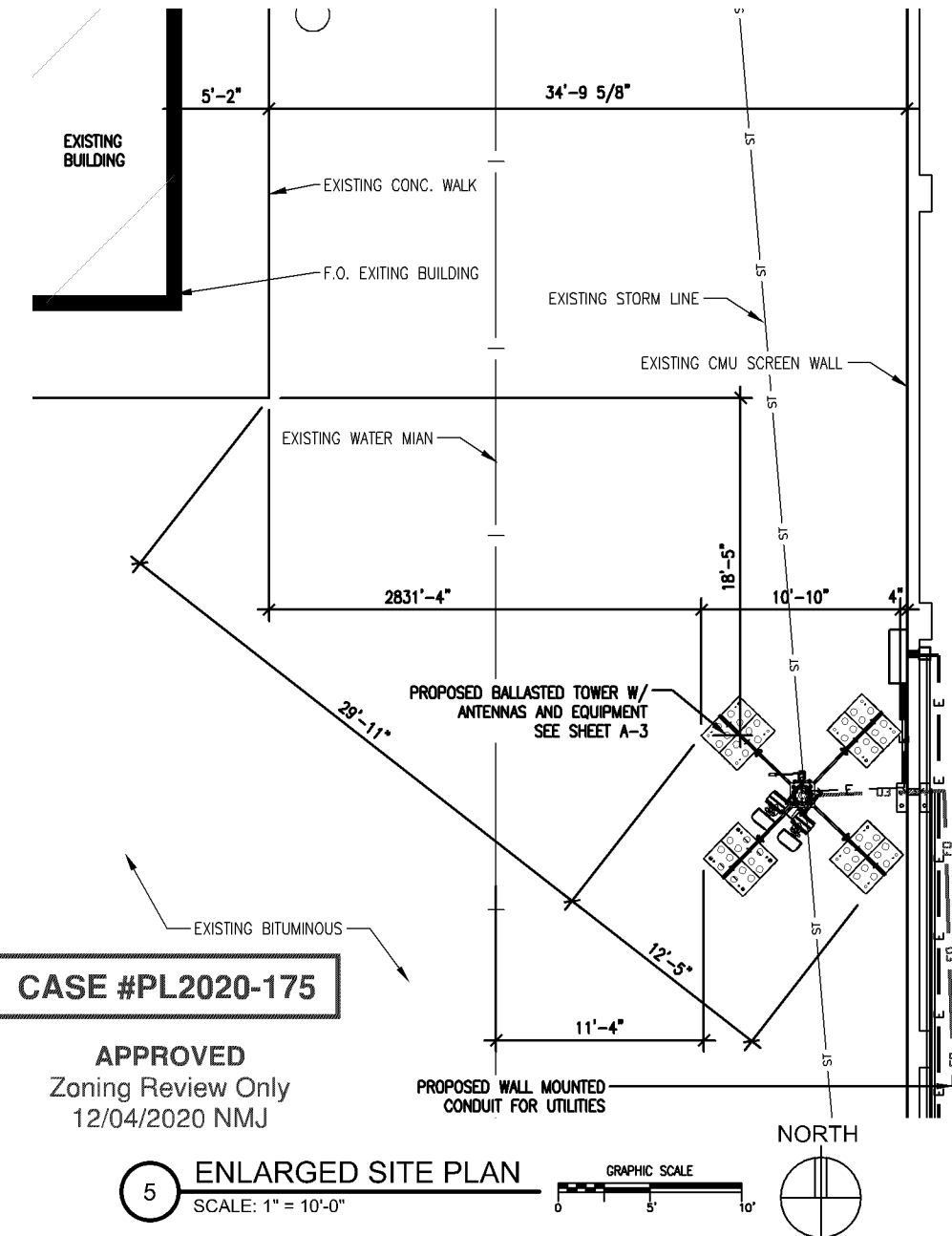
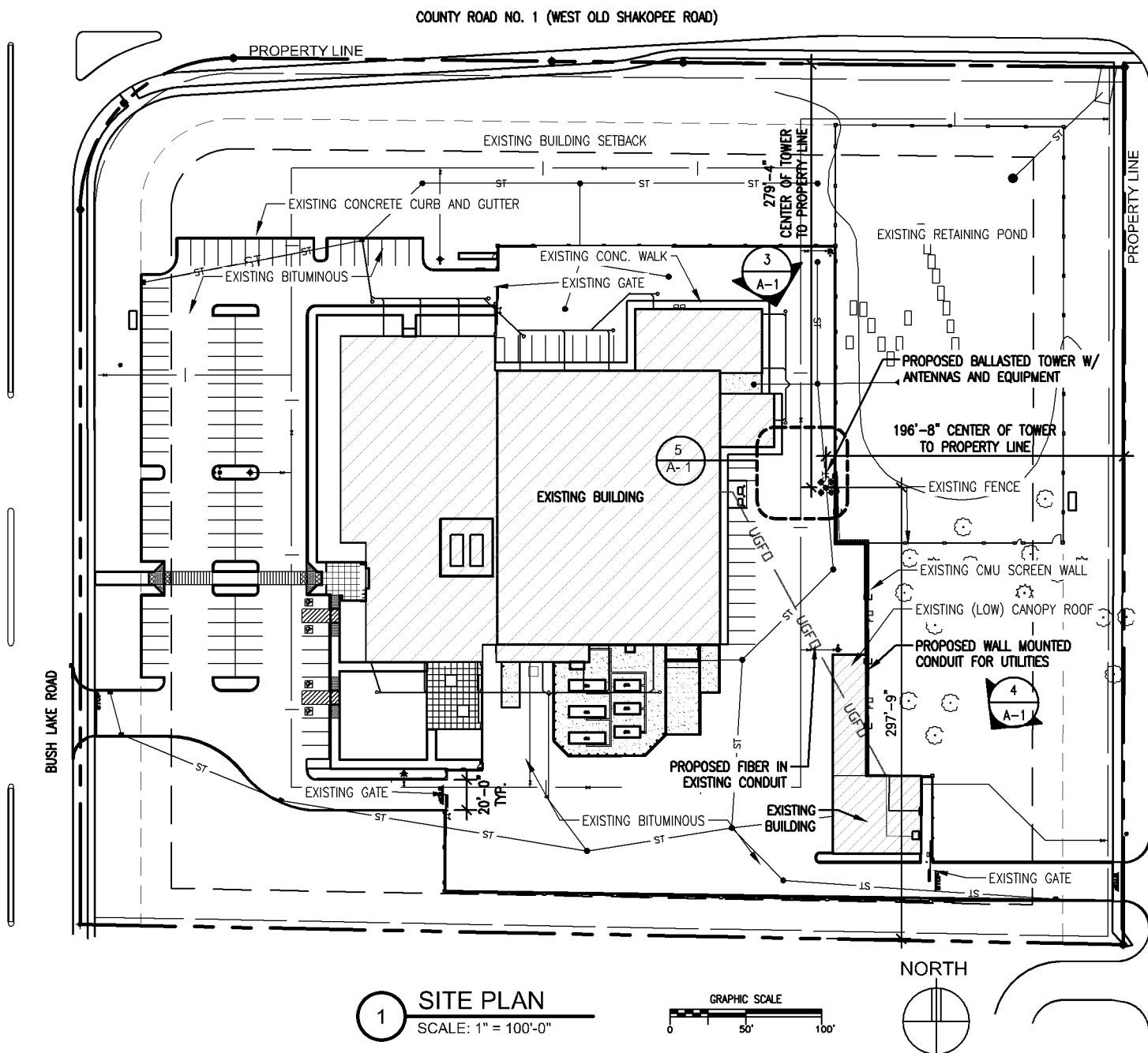
MIN
BLM RNC
NODE #1

10801 BUSH LAKE ROAD
BLOOMINGTON, MN 55438

SHEET CONTENTS:
SITE PLAN
PHOTOS

DRAWN BY:	KJM
DATE:	09.08.20
CHECKED BY:	B.S.
REV A	09.14.20
REV A.1	09.15.20
REV B	09.25.20
REV C	10.08.20
REV D	10.23.20

A-1



CASE #PL2020-175

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PROPOSED ANTENNA KEY													
NODE	AZIMUTH	POSITION	PORT	QTY	MANUFACTURER	MODEL	MOD TYPE	ANTENNA HEIGHT	ANTENNA WIDTH	ANTENNA WEIGHT	ANTENNA TIP	ANTENNA CENTER	ELEC DOWNTILT
1	210°	1.1	-	1	JMA	DX12FRO260	700 LIE +45	24"	15"	17.4 LBS	30.0'	29.0'	30'
-	-	1.2	-	-	-	2ND PORT	700 LIE -45	-	-	-	-	-	-
-	-	1.3	-	-	-	3RD PORT	AWS +45	-	-	-	-	-	-
-	-	1.4	-	-	-	4TH PORT	AWS -45	-	-	-	-	-	-
-	-	1.5	-	-	-	5TH PORT	AWS +45	-	-	-	-	-	-
-	-	1.6	-	-	-	6TH PORT	AWS -45	-	-	-	-	-	-
-	-	1.7-1.12	-	-	-	7TH - 12TH PORT	TERMINATE	-	-	-	-	-	-
1	210°	2.1	-	1	JMA	DX12FRO260	700/850 -45	24"	15"	17.4 LBS	30.0'	29.0'	30'
-	-	2.2	-	-	-	2ND PORT	700/850 -45	-	-	-	-	-	-
-	-	2.3	-	-	-	3RD PORT	PCS +45	-	-	-	-	-	-
-	-	2.4	-	-	-	4TH PORT	PCS -45	-	-	-	-	-	-
-	-	2.5	-	-	-	5TH PORT	PCS +45	-	-	-	-	-	-
-	-	2.6	-	-	-	6TH PORT	PCS -45	-	-	-	-	-	-
-	-	2.7-2.12	-	-	-	7TH - 12TH PORT	TERMINATE	-	-	-	-	-	-
1	210°	3	-	1	ERICSSON	AIR6701	28GHz	20.1"	7.87"	30.8 LBS	26.5'	25.7'	22'
1	210°	4	-	1	ERICSSON	AIR6701	39GHz	20.1"	7.87"	30.8 LBS	26.5'	25.7'	22'
1	210°	5	-	1	-	L-SUB 6	-	30.4"	15.9"	81.6 LBS	23.6'	22.3'	22'
1	210°	6	-	1	ERICSSON	4408	CBRS / LTE	8.4"	7.87"	11 LBS	23.3'	23.0'	-
1	210°	7	-	1	JMA	2205	LAA / LTE	7.9"	7.87"	12.2 LBS	21.7'	21.4'	-

EQUIPMENT/CABLE KEY			
QTY	MANUFACTURER	MODEL	RRU PORT
1	ERICSSON	#4449	1
1	ERICSSON	#8843	2
-	-	-	1
-	-	-	2
-	-	-	3
-	-	-	4
-	-	-	3
-	-	-	4
-	-	-	5
-	-	-	6
-	-	-	7
-	-	-	8

MIN BLM RNC NODE 1

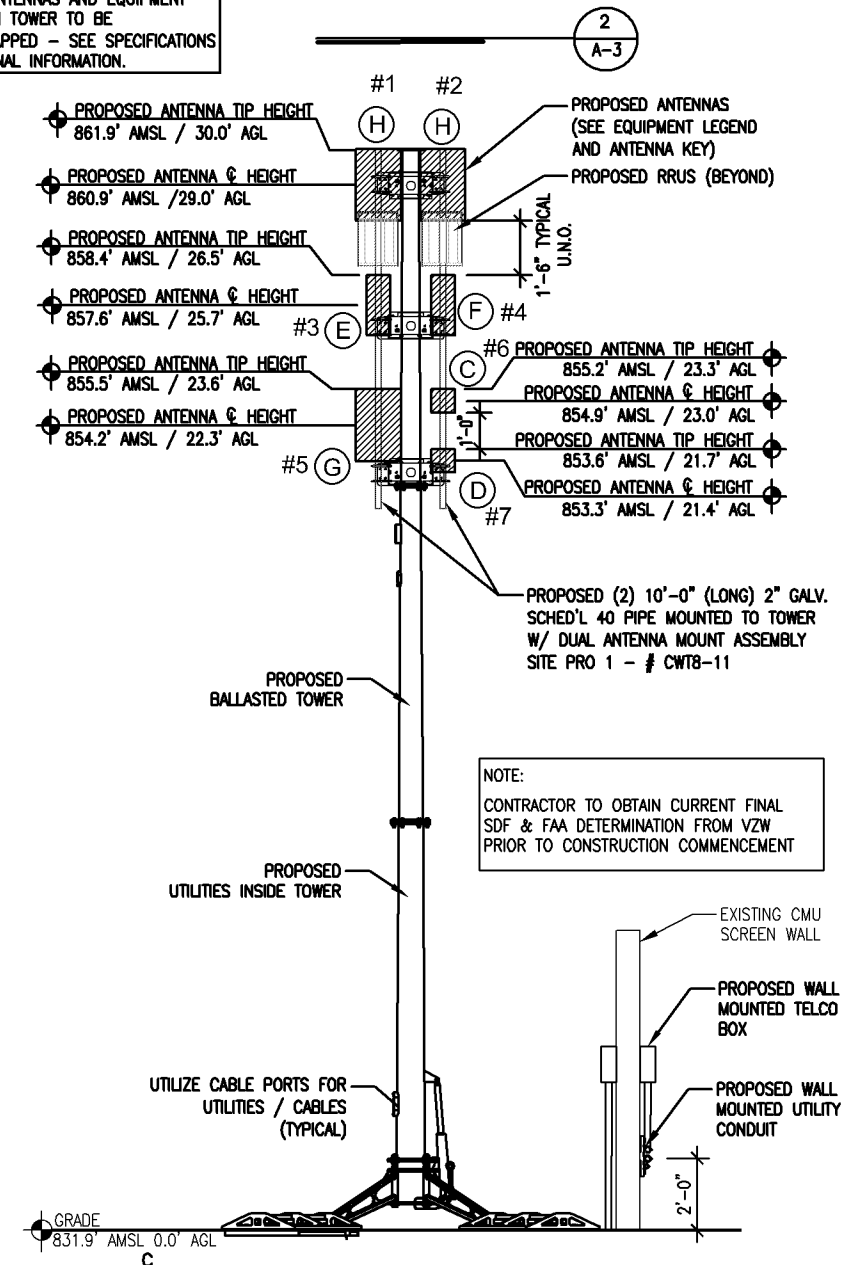
- (A) 1) 4449 // Size: H 17.91" x W 13.18" x D 9.25" // Weight: 67.24 lbs
 (B) 1) 8843 // Size: H 17.95" x W 13.18" x D 11.1" // Weight: 71.87 lbs
 (C) 1) 4408 // Size: H 8.38" x W 7.87" x D 4.92" // Weight: 11.02 lbs
 (D) 1) 2205 // Size: H 7.87" x W 7.87" x D 4.84" // Weight: 12.23 lbs kg
 (E) 1) AIR6701 28GHz // Size: H 20.11" x W 7.87" x D 4.92" // 30.86 lbs
 (F) 1) AIR6701 39GHz // Size: H 20.11" x W 7.87" x D 4.92" // 30.86 lbs
 (G) 1) Sub 6 // Size: H 30.4" x W 15.9" x D 8.1" // Weight: 81.6 lbs
 (H) 2) DX12FRO260-20 // Size: H 24" x W 15" x D 5.25" // Weight: 17.4 lbs

NOTE: # = ANTENNA POSITION

EQUIPMENT KEY

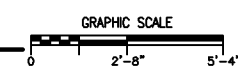
SCALE: NONE

NOTE: ALL ANTENNAS AND EQUIPMENT MOUNTED ON TOWER TO BE PAINTED/WRAPPED - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



ELEVATION

SCALE: 3/16" = 1'-0"



ANTENNA KEY

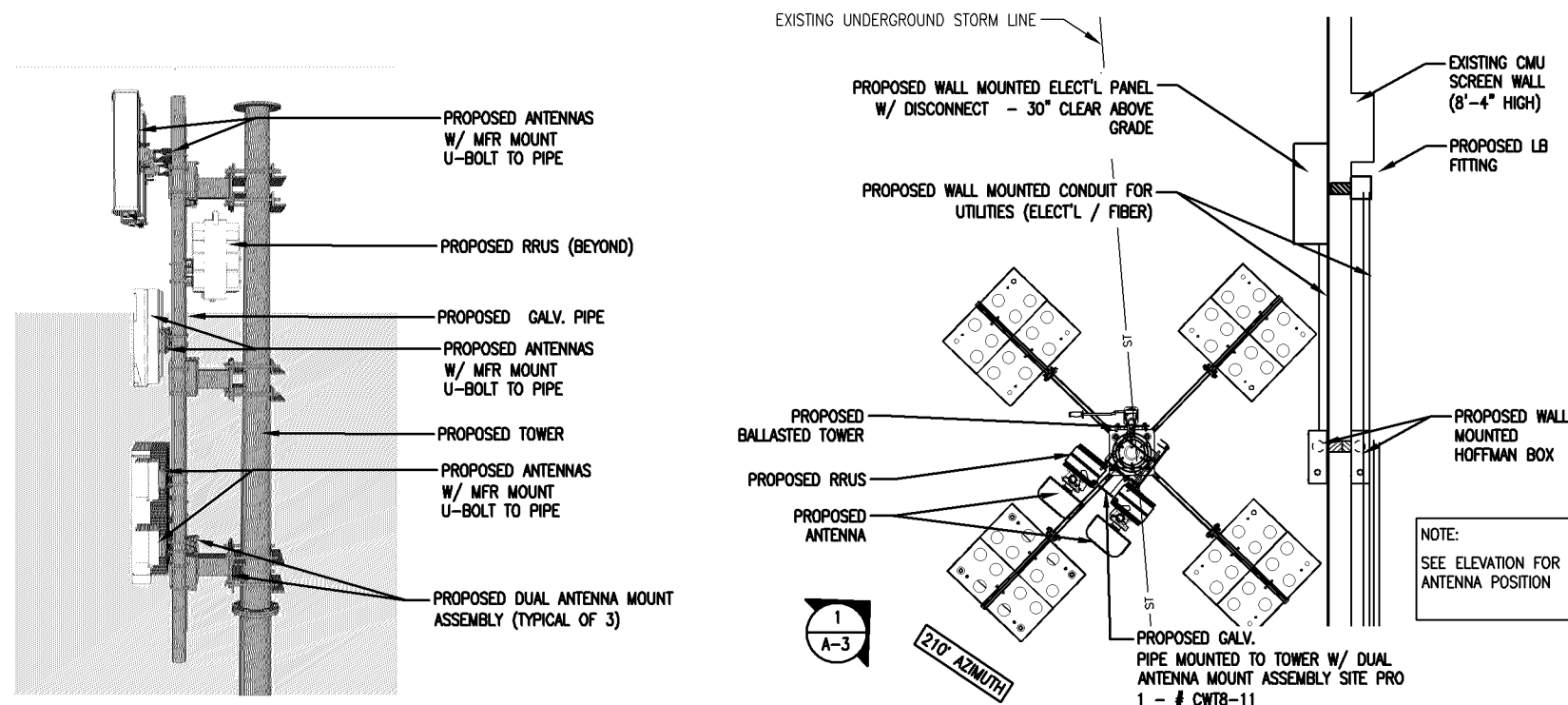
4

PROPOSED EQUIPMENT KEY				
QTY.	MANUFACTURER	MODEL	STATUS	DISCRIPTION
1	RAYCAP	#RVZD-4520-RM-48	PROPOSED	DISTRIBUTION BOX
1	ERICSSON	RRU 8843	PROPOSED	RRUS
1	ERICSSON	RRU 4449	PROPOSED	RRUS
1	ERICSSON	PSU 6302	PROPOSED	POWER CONVERTER
12	COMMSCOPE	#LDF-50A	PROPOSED	COAX

COAX KEY

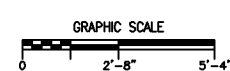
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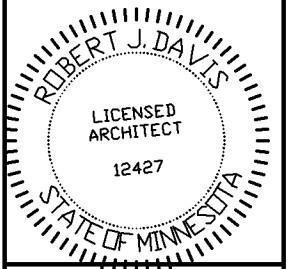
PLAN VIEW

SCALE: 3/16" = 1'-0"



ARTIST RENDERING

SCALE: NONE



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ROBERT J. DAVIS, Reg. No. 12427

Signed: *Robert J. Davis*
10/23/2020
Date:

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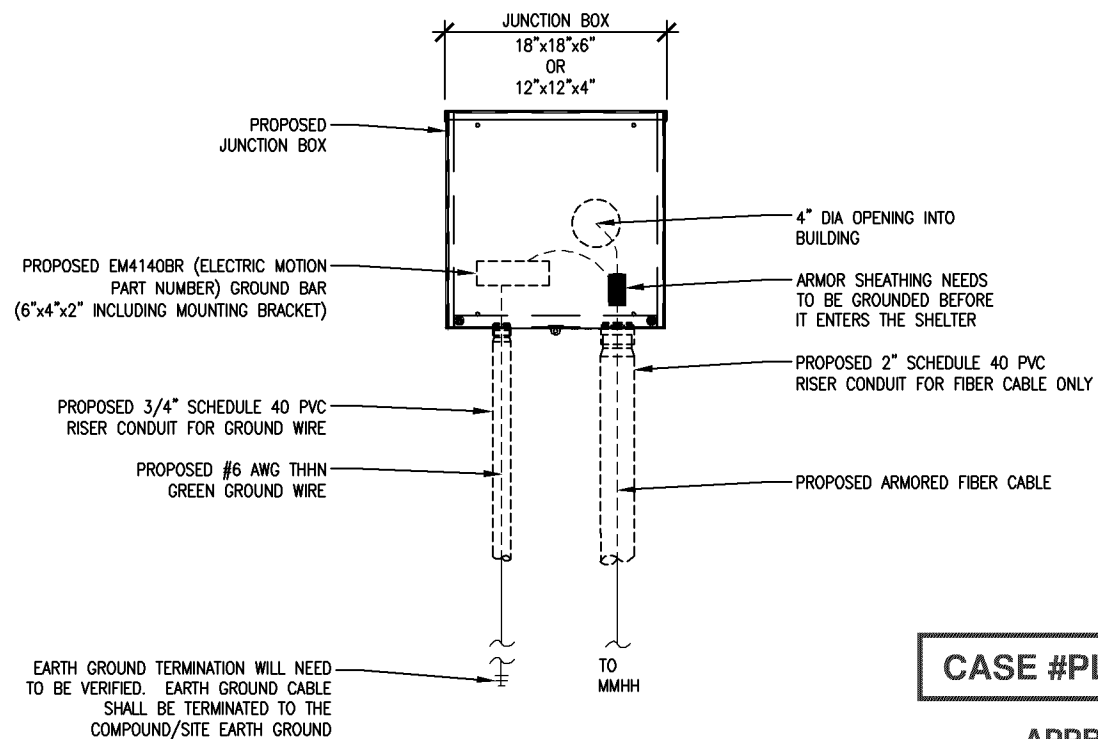
10801 BUSH LAKE ROAD
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SHEET CONTENTS:
COAX & ANTENNA KEY
TOWER ELEVATION
ANTENNA MOUNTING DETAIL

DRAWN BY: KJM
DATE: 09.08.20
CHECKED BY: B.S.
REV A 09.14.20
REV A.1 09.15.20
REV B 09.25.20
REV C 10.08.20
REV D 10.23.20

A-3

- GENERAL NOTES:
- 1). CONTRACTOR TO COORDINATE PUBLIC & PRIVATE UTILITY LOCATES PER STATE LAW PRIOR TO EXCAVATION. EXISTING UTILITY LINES DEVIATING FROM THAT SHOWN HEREIN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT & VZW CONSTRUCTION ENGINEER.
 - 2). EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN. CONTRACTOR IS RESPONSIBLE TO NOT DAMAGE UNDERGROUND UTILITIES AND MUST CONDUCT BOTH PUBLIC AND PRIVATE UTILITY LOCATES BEFORE EXCAVATING.
 - 3). G.C. TO PROVIDE J-BOX/PULL BOX AT 90 DEGREE BENDS (REDIRECTION) FOR FIBER WHEN IN CONDUIT (PAINT).
 - 4). GROUND DISTURBANCE IS NOT EXPECTED IN THIS PROJECT; HOWEVER, CONTRACTOR TO HAND DIG AT ALL LOCATIONS NEAR EXISTING UTILITIES IF REQUIRED.



NOTES:

1. #6 THHN GREEN CABLE TO BE USED FOR THE GROUNDING CABLE.
2. EARTH GROUND SHALL BE TERMINATED TO THE COMOUND/SITE EARTH GROUND.
3. IN-BUILDING AND WATER TOWERS: IF YOU ARE ATTEMPTING TO GROUND TO AN EXISTING GROUND BAR WITHIN THE BUILDING OR WATER TOWER, SECURE LANDLORD APPROVAL PRIOR TO GROUNDING.

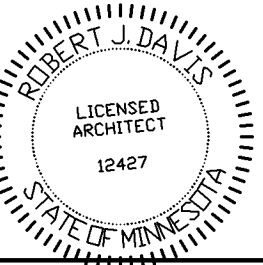
CASE #PL2020-175

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2 TELCO ENTRY DETAIL - WEATHER TIGHT ENCLOSURE
SCALE: NONE

UTILITY LEGEND:
PROPOSED UNDERGROUND UTILITIES
- FIBER CONDUIT — UGFD —
PROPOSED CEILING/WALL MOUNTED UTILITIES
- FIBER CONDUIT — FD —
- ELECTRICAL CONDUIT — E —

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



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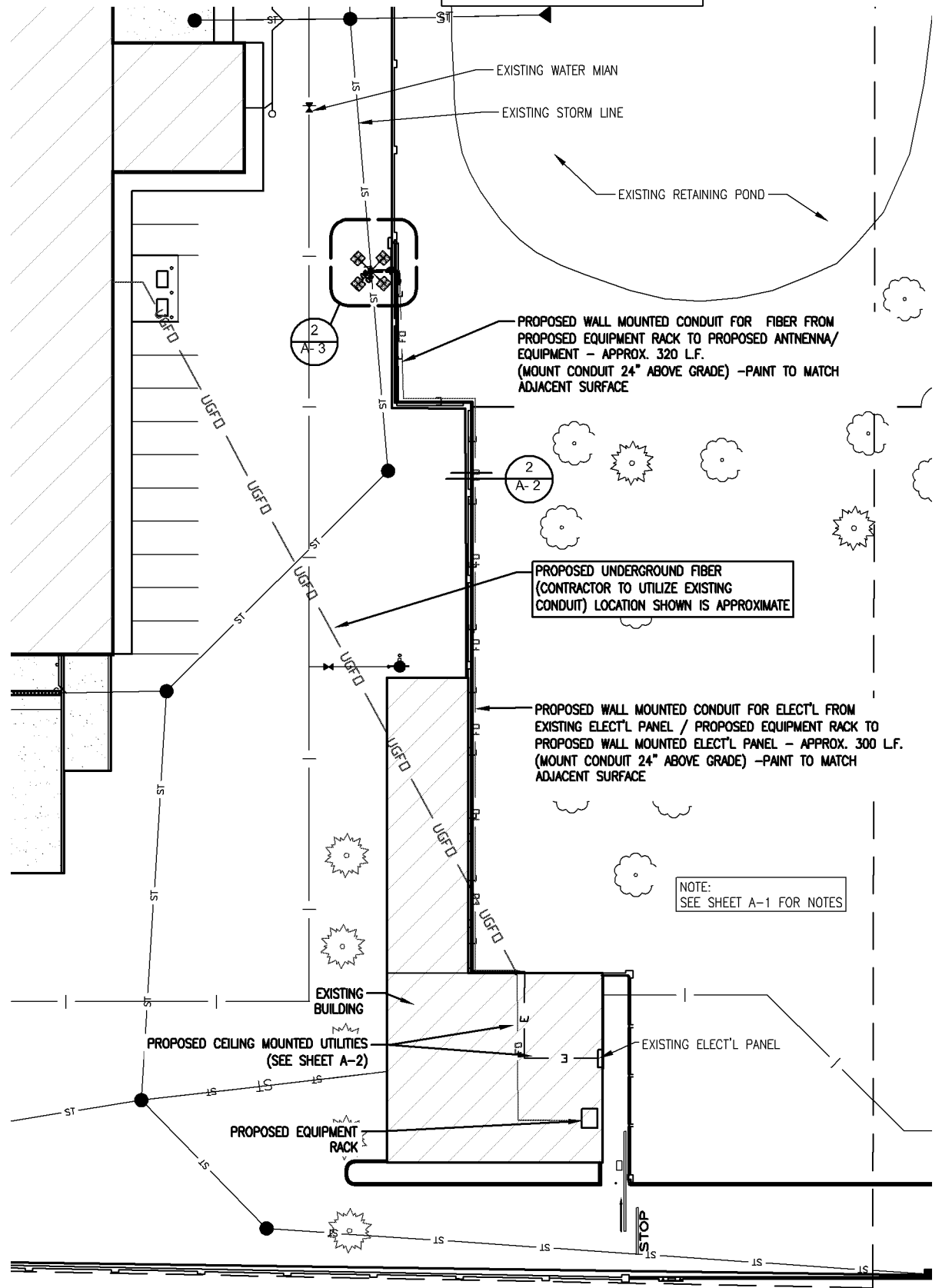
MIN
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BLOOMINGTON, MN 55438

SHEET CONTENTS:
SITE UTILITY PLAN

DRAWN BY:	KJM
DATE:	09.08.20
CHECKED BY:	B.S.
REV A	09.14.20
REV A.1	09.15.20
REV B	09.25.20
REV C	10.08.20
REV D	10.23.20

U-1



1 SITE UTILITY PLAN
SCALE: 1" = 40'-0"