

Village of Yorkville
Village Board / Plan Commission

Monday, March 11, 2024 - 6:00 p.m.

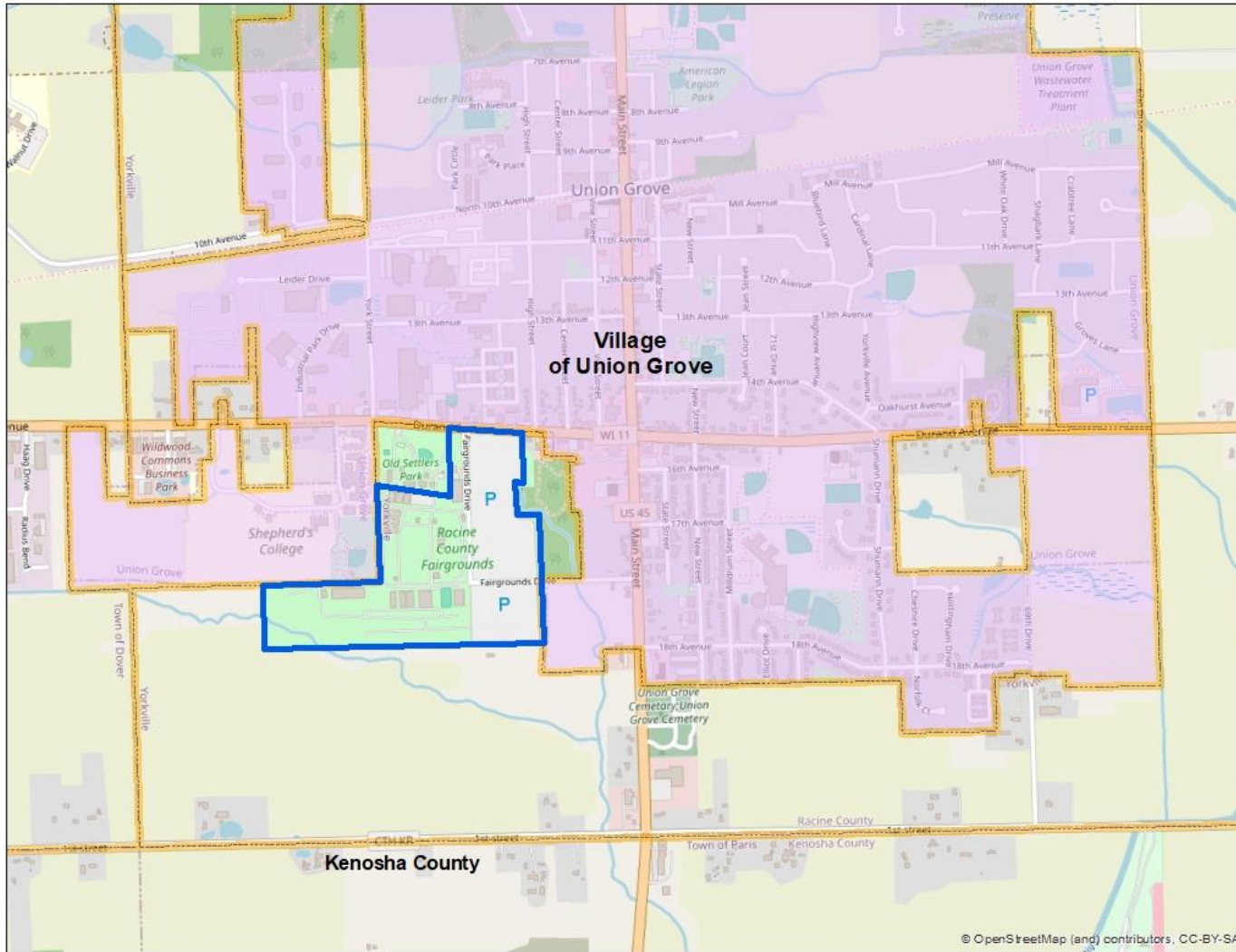
925 15th Avenue, Union Grove
Community Room – 1st Floor

Racine County Agricultural Society, Owners
Kristen Swenson, Agent

Site Address: 19805 Durand Avenue

A-2 Site Plan Review for a class II collocation to install 6 new antennas, 6 new radios, and 2 hybrid cables at 140' on an existing mobile service support structure, including associated ground equipment for an additional carrier know as "T-Mobile".

Location Map



SEC 31 – T3N – R21E

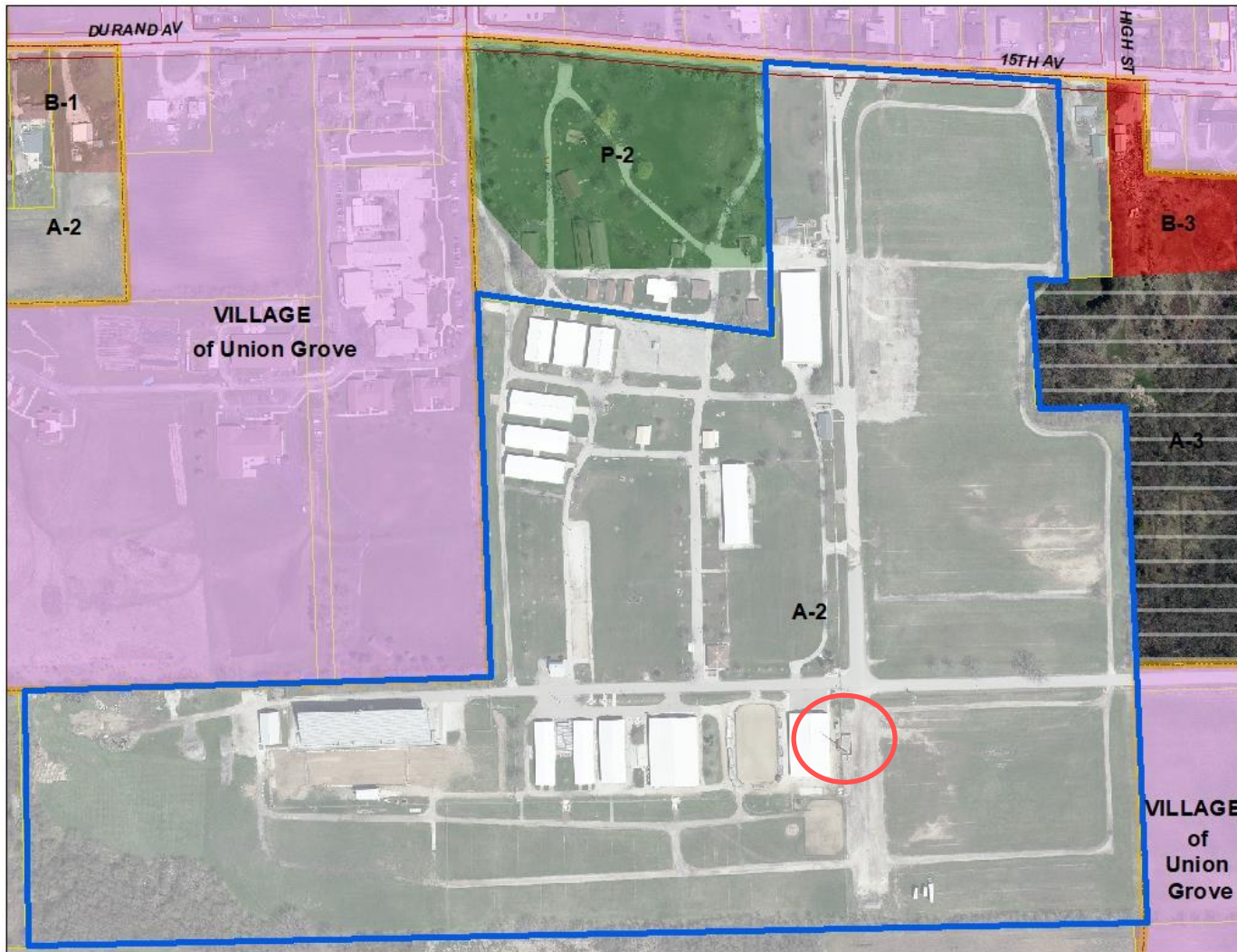
Village of Yorkville

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Zoning Map



SEC 31 – T3N – R21E

Village of Yorkville

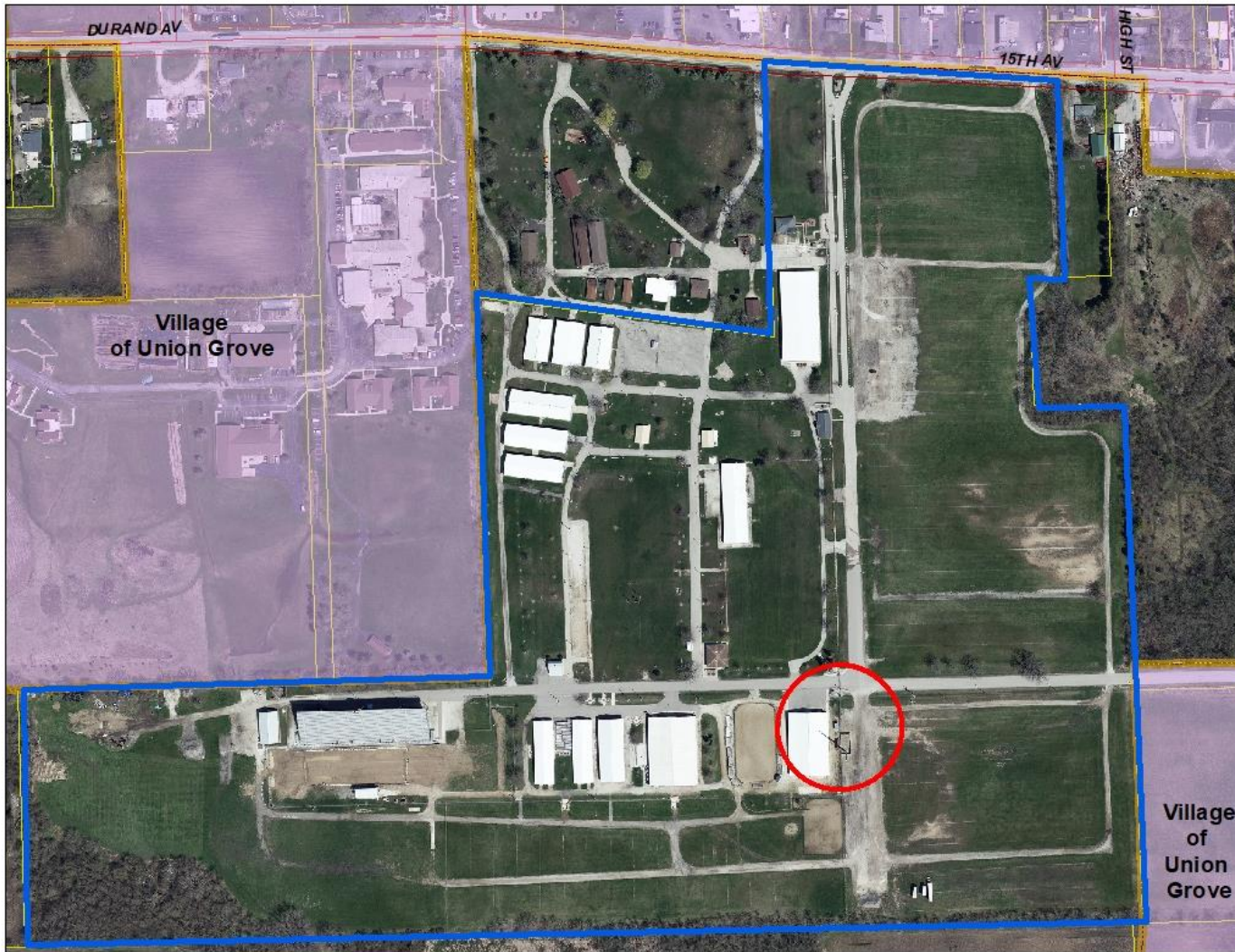


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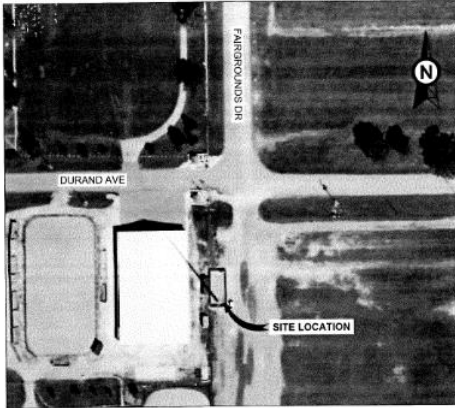
2022 Aerial



SEC 31 – T3N – R21E

Village of Yorkville

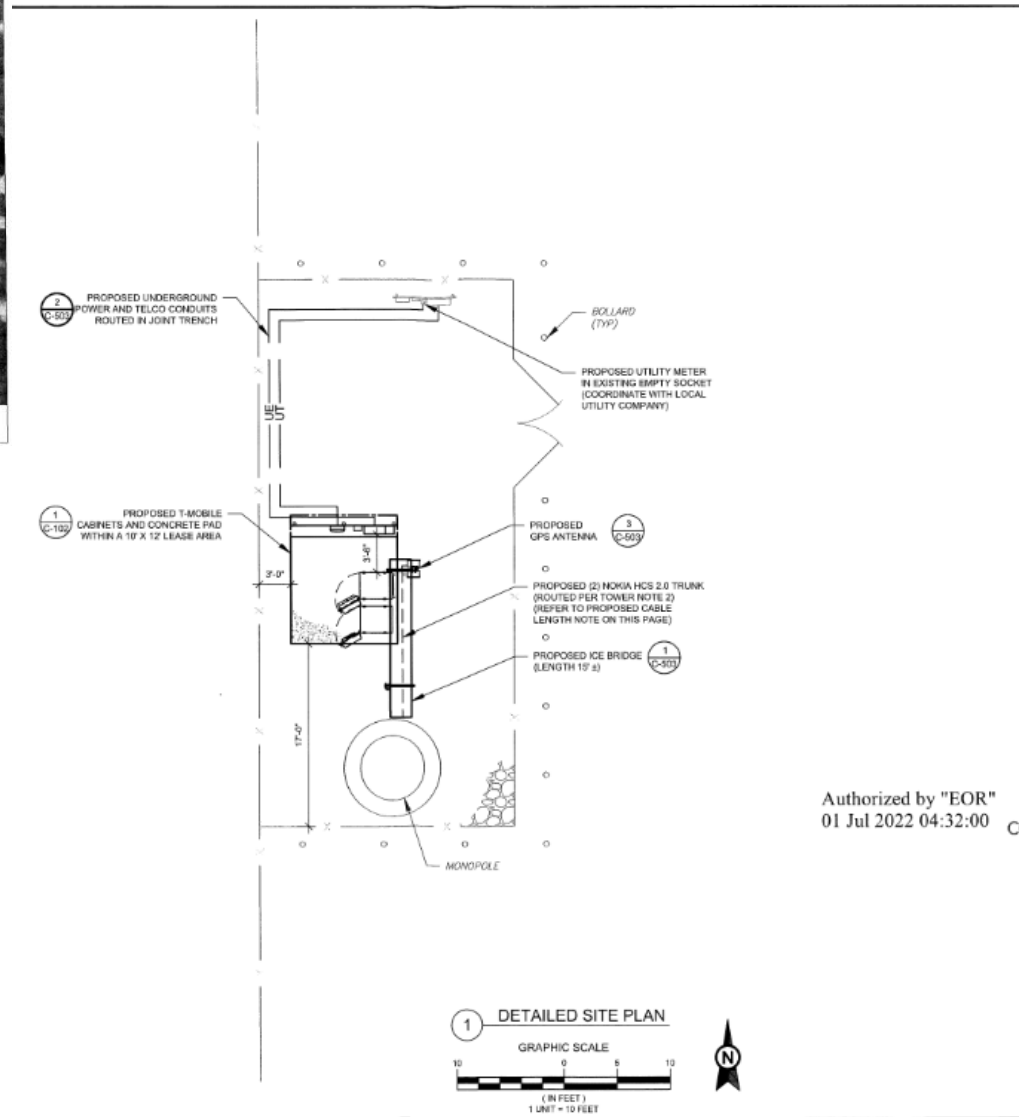




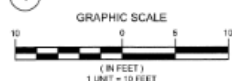
LOCATION MAP

LEGEND	
⊙	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
---	CHAINLINK FENCE

- PROPOSED CABLE LENGTH**
- ESTIMATED LENGTH OF PROPOSED CABLE IS 188'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 10% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY POINT HOLE UP INSIDE OF MONOPOLE AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SHAKING OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



1 DETAILED SITE PLAN





AMERICAN TOWER
 ATC TOWER SERVICES
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COAL: 4969-11

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	AP	06/30/22

ATC SITE NUMBER:
282370

ATC SITE NAME:
RACINE CO FAIR WI

T-MOBILE SITE NAME:
ML84197A

SITE ADDRESS:
1805 DURAND AVE.
UNION GROVE, WI 53182

SEAL



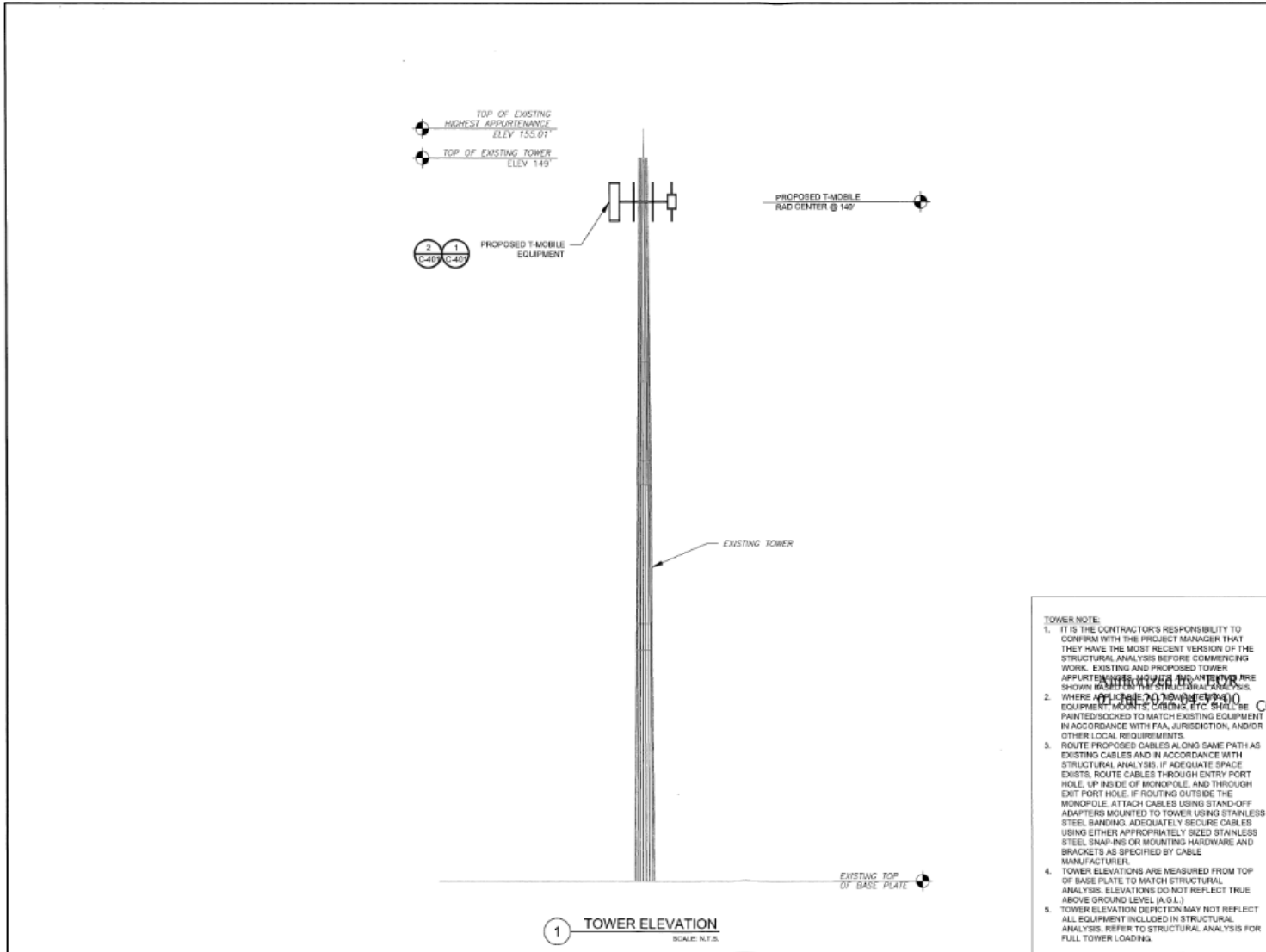
Authorized by "EOR"
01 Jul 2022 04:32:00

cosign



DATE DRAWN: 06/02/22
ATC JOB NO: 13803054_D0
CUSTOMER ID: ML84197A
CUSTOMER #: ML84197A

DETAILED SITE PLAN	
SHEET NUMBER	REVISION:
C-101	0



TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPLIERS, ANTENNAS, AND ANTENNA RISE SHALL BE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE TO THE TOWER, EQUIPMENT MOUNTS, CABLES, ETC. SHALL BE PAINTED/POURED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAPS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEFECTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

1 **TOWER ELEVATION**
 SCALE: N.T.S.



AMERICAN TOWER®
 ATC TOWER SERVICES
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 4069-11

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AP	08/30/22

ATC SITE NUMBER:
282370

ATC SITE NAME:
RACINE CO FAIR WI

T-MOBILE SITE NAME:
ML84197A

SITE ADDRESS:
1965 DURAND AVE.
UNION GROVE, WI 53182

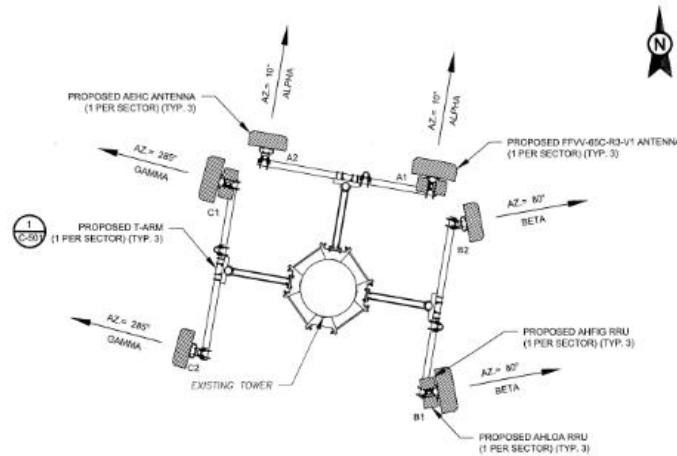
SEAL:



T-Mobile

DATE DRAWN:	06/09/22
ATC JOB NO.:	1369364_D9
CUSTOMER ID:	ML84197A
CUSTOMER #:	ML84197A

TOWER ELEVATION	
SHEET NUMBER:	REVISION:
C-201	0



1 FINAL ANTENNA PLAN
 SCALE: N.T.S.

FINAL ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC Ø-VLT	DISTRIBUTION BOX / CABLING
ALPHA	140°	90°	A1	FFV-65C-R3-V1	L500/N600/L2100/L1900/ U1900/N1900/N2100	0°	(2) NOKIA HCS 2.0 TRUNK W/ (2) PENDANT CONNECT
			A2	AEHC	L2500/N2500	0°	
BETA	140°	80°	B1	FFV-65C-R3-V1	L500/N600/L2100/L1900/ U1900/N1900/N2100	0°	
			B2	AEHC	L2500/N2500	0°	
GAMMA	140°	285°	C1	FFV-65C-R3-V1	L500/N600/L2100/L1900/ U1900/N1900/N2100	0°	
			C2	AEHC	L2500/N2500	0°	

1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFS FOR NSN CONFIGURATION (CONF).
 (IC TO CAP ALL UNUSED PORTS).
 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

2 ANTENNA SCHEDULE

AMERICAN TOWER®
 ATC TOWER SERVICES
 3308 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 486-6112
 COA: 4866-11

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	AP	09/30/22

ATC SITE NUMBER:
282370

ATC SITE NAME:
RACINE CO FAIR WI

T-MOBILE SITE NAME:
MLB4197A

SITE ADDRESS:
19805 DURAND AVE.
UNION GROVE, WI 53182

SEAL:

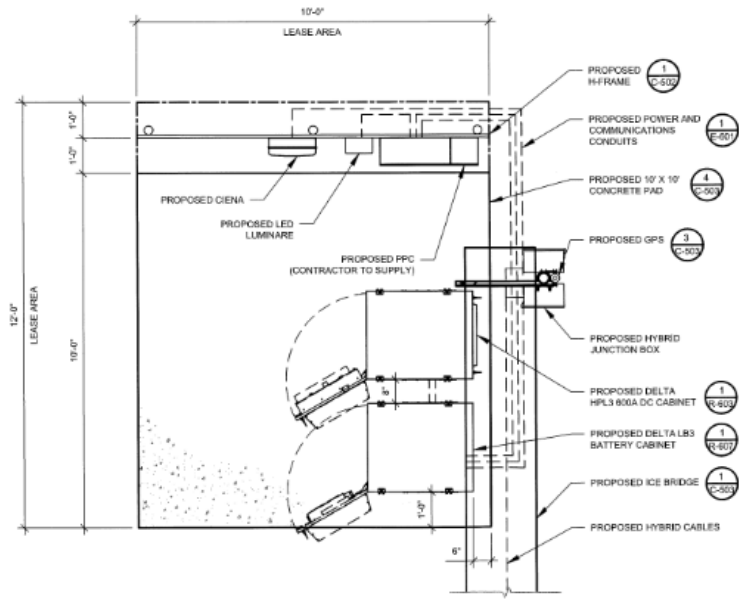
ESHA K.
MODI
45601-6
CARY, NC
PROFESSIONAL ENGINEER

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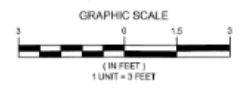
DATE DRAWN:	09/30/22
ATC JOB NO.:	1368304_L3
CUSTOMER ID:	MLB4197A
CUSTOMER #:	MLB4197A

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED GROUND EQUIPMENT LAYOUT



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 01 Jul 2022 04:32:00

AMERICAN TOWER
ATC TOWER SERVICES
 3506 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 4068-11

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REV.	DESCRIPTION	BY	DATE
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ATC SITE NUMBER:
 282370
 ATC SITE NAME:
 RACINE CO FAIR WI
 T-MOBILE SITE NAME:
 ML84197A
 SITE ADDRESS:
 1805 DURAND AVE.
 UNION GROVE, WI 53182

SEAL:

ESHA K MOOI
 45601-6
 CARY, NC
 PROFESSIONAL ENGINEER

DATE DRAWN: 09/30/22
 ATC JOB NO: 13683054_D3
 CUSTOMER ID: ML84197A
 CUSTOMER #: ML84197A

DETAILED EQUIPMENT PLAN

SHEET NUMBER:	REVISION:
C-102	0