**Subject to the FCC Shot Clock of 150 days for an Application for Other than a Small Wireless Facility Using a New Structure - 83 Fed Reg 51867 codified at 47 CFR § 1.6003(c)(1)(iv)**

**PLANNING BOARD of the TOWN of WAPPINGER,**
**DUTCHESS COUNTY, NEW YORK**

In the Matter of the Special Use Permit and Site Plan Review Application of

---

**VERIZON WIRELESS OF THE EAST LP d/b/a Verizon Wireless**

Lands n/f of Patricia H. Meddaugh and Craig Tiedeman, as Trustees of the Corbin Trust,
dated November 22, 2016
Off Diddell Road
Town of Wappinger, Dutchess County
Tax Map No. 6359-01-480600

---

# APPLICATION FOR SPECIAL USE PERMIT, SITE PLAN REVIEW and ROSENBERG WAIVER RELIEF and STATEMENT OF INTENT

Submitted by:


Verizon Wireless
Kathy Pomponio, Manager – Network Real Estate
1275 John Street, Suite 100
West Henrietta, New York 14586
(585) 321-5435

Tectonic Engineering & Surveying Consultants, P.C.
Steven Matthews, P.E.
36 British American Blvd, Suite 101
Latham, New York 12110
(518) 783-1630

AiroSmith Development Inc.
Bryan Sarchi, Lead, Project Implementation
318 West Avenue
Saratoga Springs, New York 12866
(480) 734-4970

Young/Sommer LLC
Scott P. Olson, Esq.
Executive Woods
Five Palisades Drive
Albany, New York 12205
(518) 438-9907


Dated: February 7, 2023

TOWN OF WAPPINGER PLANNING BOARD

**Application No.** _____
Date Received: _____
Fee Received: _____
Escrow Received: _____

## APPLICATION FOR SITE PLAN APPROVAL

TITLE OF PROJECT: Verizon Wireless – Diddell Rd Communications Facility

Location of Property: _____

NAME & ADDRESS OF APPLICANT (Corporation or Individual):

Verizon Wireless of the East LP d/b/a Verizon Wireless

1275 John St., Suite 100, West Henrietta, NY 14586

Street | Town | State | Zip

c/o Scott Olson | 518-438-9907 | solson@youngsommer.com

Contact Person | Phone Number | Email

NAME & ADDRESS OF OWNER (Corporation or Individual):

Patricia H. Maddaugh and Chas Tiedman, Trustees of Corbin Trust

79 Diddell Rd. Wappinger Falls, NY 12590

Street | Town | State | Zip

TBD

Contact Person | Phone Number | Email

Grid No. 6359-01-480600

Please specify use or uses of building and amount of floor area devoted to each:

Existing Use: VACANT Fields/Wooded land

Proposed Use: Personal wireless service facility within 10,000 S.F. lease area

Existing Sq. Footage: _____ Use: _____

Proposed Sq. footage: 10,000 Use: personal wireless service facility

Location of Property: Diddell Rd

Zoning District: R-40/80 & R-3A Acreage: TBD

Anticipated No. of Employees: Ø

Existing No. of Parking Spaces: N/A Proposed No. of Parking Spaces: 2+

Verizon Wireless of the East LP d/b/a Verizon Wireless

Type Name (Corporation, LLC, Individual, etc.)

1/10/23

Date

518-438-9907 Ext. 258

~~Owner's~~ Applicant's Telephone No.

Owner or representative's signature

Scott Olson, Attorney

Type Name and Title ***

1275 John St., Suite 100, West Henrietta, NY 14586

~~Owner's~~ Applicant's Address

***If this is a Corporation or LLC please provide documentation of authority to sign.

Note: *The applicant is responsible for the cost involved in publishing the required legal notice in the local newspaper;

* If Special Use Permit for the above use has been applied for, please check ☑.

- **Application Fees are non-refundable.**

TOWN OF WAPPINGER PLANNING BOARD
**SPECIAL USE PERMIT**

**Application No.** _____
Date Received: _____
Fee Received: _____
Escrow Received: _____

IN ACCORDANCE WITH THE PROVISIONS OF SECTION 240-53 0F THE TOWN OF WAPPINGER ZONING LAW, I HEREBY MAKE APPLICATION TO THE PLANNING BOARD OR TOWN BOARD FOR THE ISSUANCE OF A SPECIAL PERMIT FOR THE USE OF;

PROJECT NAME: Verizon Wireless - Diddell Rd Communications Facility

GRID NO.: 6359 - 01 - 480600 ZONING DISTRICT: _____

PROPERTY LOCATION: Diddell Rd.

NAME & ADDRESS OF APPLICANT (Corporation or Individual):
Verizon Wireless of the East LP d/b/a Verizon Wireless
1275 John St., Suite 100, West Henrietta, NY 14586
Street Town State Zip
c/o Scott Olson 518-438-9907 Ext. 258 Solson@youngsommer.com
Contact Person Phone Number Email

NAME & ADDRESS OF OWNER (Corporation or Individual):
Patricia H. Meddaugh and Craig Tiedeman, Trustees of Corbin Trust
75 Diddell Rd. Wappingers Falls NY 12590
Street Town State Zip
TBD
Contact Person Phone Number Email

**Pursuant to section(s):** 240-81(D)(3)

II. CONCURRENTLY WITH THE ABOVE APPLICATION, AND IN ACCORDANCE WITH THE PROVISIONS OF SECTION 450 OF SAID ORDINANCE, I HEREBY MAKE APPLICATION FOR SITE PLAN APPROVAL OF THE FOLLOWING PLANS TO CONDUCT SUCH USE ON THE AFORESAID PARCEL.

III.
MAP TITLED: Verizon - Diddell Road
PREPARED BY: Tectonic Engineering
DATED: 2/3/23

III. I HAVE, AS PART OF THESE CONCURRENT APPLICATIONS, SUBMITTED A "STATEMENT OF USE" WHICH FULLY DESCRIBES THE OPERATION AND MAINTENANCE OF SAID USE LISTED IN THE APPLICATION: (Use EXTRA SHEET IF NECESSARY)

## Continued page 2 for Special Use Permit

Verizon Wireless of the East LP d/b/a Verizon Wireless

Type Name (Corporation, LLC, Individual, etc.)

1/10/23

Date

Scott Olson

Owner or representative's signature

518-438-5907 Ext. 258

~~Owner's~~ Telephone No.

Applicant's

Scott Olson, Attorney

Type Name and Tit

1275 John St., Suite 100, West Henrietta, NY 14586

~~Owner's~~ Address

Applicant's

***If this is a Corporation or LLC please provide documentation of authority to sign.

- 
- THE REQUIRED FEES (NON-REFUNDABLE) AND PLANS MUST ACCOMPANY THE APPLICATION.
- APPLICANT IS RESPONSIBLE FOR THE COSTS INVOLVED IN PUBLISHING THE REQUIRED LEGAL NOTICE IN THE LOCAL NEWSPAPER.

Town of Wappinger
20 Middlebush Road
Wappingers Falls, NY 12590

Planning Department
Office: 845.297.1373 ~ Fax: 845.297-0579
www.broberti@townofwappinger.us

# Owner Consent Form

*To be filed when the applicant is not the building or property owner*

Project # _____ Date: _____

Grid # 6359-01-480606 Zoning District: _____

Location of project: Diddell Rd

Name of Applicant: Verizon Wireless of the East LP d/b/a Verizon Wireless
Print name ( Corporation, LLC, Individual, etc.)

Description of project: Installation and operation of personal Wireless service facility within 10,000 s.f. lease area on referenced property

I _____, owner of the above land/site/building hereby give permission for the Town of Wappinger to approve or deny the above application in accordance with local and state codes and ordinances.

PATRICIA H. MEDDAUGH AND CRAIG TIEDEMAN, TRUSTEES OF CORBIN TRUST
Print name ( Corporation, LLC, Individual, etc.)

Patricia Meddaugh / Craig Ted
Owner or representative's signature

Date

845-462-0877
Owner's Telephone No.

Patricia Meddaugh-Trustee Craig T. Tiedemann
Print Name and Title ***

79 Diddell Rd, Wappingers Falls N.Y. 12590
Owner's Address

***If this is a Corporation or LLC please provide documentation of authority to sign.

If this is a subdivision application, please provide a copy of the deed.

**PLANNING BOARD of the TOWN of WAPPINGER,**
**DUTCHESS COUNTY, NEW YORK**

In the Matter of the Special Use Permit and Site Plan Review Application of

---

**VERIZON WIRELESS OF THE EAST LP d/b/a Verizon Wireless**

Premises: Lands n/f of Patricia H. Meddaugh and Craig Tiedeman, as Trustees of the Corbin Trust, dated November 22, 2016
Off Diddell Road
Town of Wappinger, Dutchess County
Tax Map No. 6359-01-480600

---

**STATEMENT OF INTENT and**
**APPLICATION FOR SPECIAL USE PERMIT and SITE PLAN REVIEW and**
**ROSENBERG WAIVER RELIEF**

## I. Introduction

VERIZON WIRELESS OF THE EAST LP d/b/a Verizon Wireless ("Verizon Wireless" or the "Applicant") proposes to install a new personal wireless service facility in the Town of Wappinger. The proposed facility includes a new 120' antenna support structure (124' with four foot lightning rod), antennas, cables and related equipment (collectively, the "Facility"). The Facility is described on the site plans prepared by Tectonic Engineering in Exhibit 1.

Verizon Wireless is considered a public utility under New York decisional law (*Cellular Telephone Company v. Rosenberg*, 82 N.Y.2d 364 (1993)) [Exhibit 2], and a provider of "personal wireless services" under the federal Telecommunications Act of 1996 (the "TCA") [Exhibit 3]. Verizon Wireless' equipment will be in operation twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. A copy of the applicable Verizon Wireless FCC licenses is included herewith Exhibit 4.

## II. Purpose of Diddell Road Communications Facility

Enclosed in Exhibit 5 is an RF Analysis prepared by a qualified Radio Frequency ("RF") Design Engineer which analysis describes in detail the need for this new site at this location. As detailed in the RF justification, the Facility is needed to resolve significant coverage gaps and capacity issues experienced in the surrounding area. Exhibit 6 includes a Site Selection Analysis that describes the methodology of identifying the proposed location for the Project. As set forth in the Site Selection Analysis, no existing towers or tall structures are available in the search area for collocation. A new tower is, therefore, required.

## III. Additional Supporting Materials

1. **Public Necessity of Facility.** The Applicant has provided expert proof in the form of a report from its RF Design Engineer depicting the area within which Verizon Wireless' communications facility needs to be located (the "search area") in order to provide adequate and safe service to the Town of Wappinger. This report clearly demonstrates that (i) there is an inadequate and unsafe level of service in the targeted area of the Town of Wappinger resulting from a lack of capacity, and (ii) a new communications facility is necessary to provide an adequate and safe level of hand-held wireless service to this area. *See*, Exhibit 5.

   As noted above and in Exhibits 2 and 3, Verizon Wireless is recognized as a public utility under New York law and a provider of personal wireless services under the federal Telecommunications Act of 1996. This project is a public necessity in that it is required to render adequate and safe coverage (mobile and in-building) to a significant portion of the Town of Wappinger. This, combined with the federal mandate to expeditiously deploy advanced wireless services across the nation and Verizon Wireless' FCC licenses to provide such services in the Town of Wappinger, demonstrates that Verizon Wireless' facility is a public necessity. Without the construction of the communications facility proposed, the public would be deprived of an essential means of communication, which, in turn, would jeopardize the safety and welfare of the community and traveling public.

2. The Facility has been designed and will be installed and operated to conform to all applicable regulations promulgated by the Federal Communications Commission, the Federal Aviation Administration and other federal agencies.

3. As set forth above, Verizon Wireless and the proposed facility are considered public utilities for purposes of zoning under existing New York decisional law.

4. Operation of the facility will not involve any objectionable noise, fumes, vibration or other characteristics.

5. The facility will be operated on a 24/7 basis, 365 days a year with minimal maintenance required. Adequate access and parking have been incorporated into the facility design.

6. The facility will not increase or otherwise impact any existing traffic patterns, nor will it impair pedestrian or vehicular safety or overload existing roads. Additionally, the facility will be fully accessible to fire, police and other emergency vehicles.

7. Because the facility will be unmanned, it will not involve the use of any public water, drainage or sewer system, or any other municipal facility, or degrade any act or for, natural resource or ecosystem.

8. Visibility and Design Standards: As required by the Wappinger Code, Verizon Wireless will conduct a balloon test in coordination with the Town. The results of the balloon test will be used to prepare a comprehensive Visual Resource Evaluation.

9. To assist the Town fulfill its obligations under the NYS Environmental Quality Review Act ("SEQRA"), a Full Environmental Assessment Form ("EAF") has been prepared by Tectonic Engineering and is provided in Exhibit 7.

10. Exhibit 8 includes a letter from Verizon Wireless in which Verizon Wireless agrees to negotiate in good faith to allow other carriers to use the tower upon its installation.

11. Attached in *Exhibit 9* is a Site Compliance Report prepared by SiteSafe, a third party engineering firm. The Site Compliance Report confirms that the proposed Facility will be fully complaint with all applicable FCC RF emission requirements.

## IV. Conclusion

Approval of the Project will enable Verizon Wireless to provide an adequate and safe level of wireless telephone service to the area of the Town of Wappinger and surrounding environs, within the confines of applicable technological and land use limitations. Such approval will also be in the public interest, in that it will allow Verizon Wireless to comply with its statutory mandate to build out its network and provide local businesses, residents and public service entities with safe and reliable wireless communications services. Based upon the foregoing, Verizon Wireless respectfully submits that this project complies in all material respects with the Special Use Permit and Site Plan Review requirements of the Town of Wappinger's Zoning Code, and any potential impact on the community created by this approval may properly be considered to be minimal and of no significant adverse effect.

If you should have any questions or require any additional information, I can be reached at (518) 438-9907, Ext. 258.

Thank you for your consideration.

Respectfully submitted,
VERIZON WIRELESS OF THE EAST LP D/B/A VERIZON WIRELESS

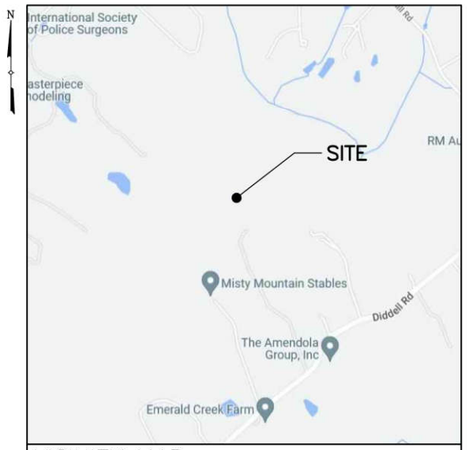
Scott P. Olson, Esq.
Regional Local Counsel

Dated: February 7, 2023

# VERIZON WIRELESS OF THE EAST LP,
# d/b/a
# verizon

## SITE NAME:
# DIDDELL RD

## RE PROJECT NUMBER: 20222321233
## LOCATION CODE: 706668




VICINITY MAP

| | |
|---|---|
| SITE ADDRESS: | DIDDELL RD<br>WAPPINGERS, NY 12590 |
| MUNICIPALITY: | TOWN OF WAPPINGER |
| COUNTY: | DUTCHESS |
| TAX MAP NUMBER: | 6359-01-480600 |
| ZONING DISTRICT: | R-40/80 & R-3A |
| STRUCTURE COORDINATES: | 41.636578°<br>-73.842958° |
| GROUND ELEVATION: | 397.1'± AMSL |
| PROPERTY OWNER: | MEDDAUGH, PATRICIA H. TRUSTEE<br>TIEDEMAN, CRAIG TRUSTEE<br>79 DIDDELL RD<br>WAPPINGERS FALLS, NY 12590 |
| APPLICANT: | VERIZON WIRELESS<br>1275 JOHN STREET, SUITE 100<br>WEST HENRIETTA, NY 14586 |
| CONTACT PERSON: | KATHY POMPONIO |
| CONTACT PHONE: | (585) 321-5435 |

PROJECT SUMMARY

| SHT. NO. | DESCRIPTION | REV NO | REVISION DATE |
|---|---|---|---|
| T-1 | TITLE SHEET | 0 | 2/3/23 |
| AD-1 | ADJOINERS PLAN | 0 | 2/3/23 |
| SB-1 | SETBACK PLAN & BULK REQUIREMENTS | 0 | 2/3/23 |
| LOC-1 | LOCATION MAP | 0 | 2/3/23 |
| C-1A | OVERALL SITE PLAN | 0 | 2/3/23 |
| C-1B | ROAD PLAN & PROFILE | 0 | 2/3/23 |
| C-2 | SITE DETAIL PLAN | 0 | 2/3/23 |
| C-3 | ELEVATION & ORIENTATION PLAN | 0 | 2/3/23 |
| C-4A | SITE DETAILS | 0 | 2/3/23 |
| C-4B | SITE DETAILS | 0 | 2/3/23 |
| C-5 | EQUIPMENT ELEVATIONS | 0 | 2/3/23 |

SHEET INDEX

THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND EACH OF THE DRAWINGS HAS BEEN REVISED AND ISSUED "FOR CONSTRUCTION".

## DIRECTIONS

DIRECTIONS TO SITE:

GET ON I-90 E FROM US-4 S AND NY-43 W, FOLLOW FOR ±3.6 MILES. MERGE ONTO I-90 E, FOLLOW FOR ±12.4 MILES. TAKE THE EXIT ON THE LEFT TO STAY ON I-90 E TOWARD TACONIC PKWY/BOSTON, FOLLOW FOR ±8.9 MILES. TAKE EXIT B2 FOR TACONIC PKWY TOWARD NY-295, FOLLOW FOR ±0.2 MILES. CONTINUE ONTO TACONIC STATE PARKWAY, FOLLOW FOR ±58.2 MILES. TURN RIGHT ONTO TODD HILL RD, FOLLOW FOR ±0.2 MILES. TURN LEFT ONTO STRINGHAM RD, FOLLOW FOR ±1.3 MILES. TURN RIGHT ONTO NOXON RD, FOLLOW FOR ±0.2 MILES. TURN LEFT ONTO ROBINSON LN, FOLLOW FOR ±0.04 MILES. TURN RIGHT ONTO DIDDELL RD, FOLLOW FOR ±1.6 MILES. TURN RIGHT ONTO THE GRAVEL ROAD, FOLLOW FOR ±0.4 MILES. SITE WILL BE ON THE FRONT.

## PROJECT DESCRIPTION

THE PROPOSED WORK CONSISTS OF INSTALLING CELLULAR ANTENNAS AND RELATED EQUIPMENT ON A PROPOSED MONOPOLE AND THE INSTALLATION OF EQUIPMENT AT GRADE WITHIN A PROPOSED FENCED COMPOUND. PROJECT INCLUDES UNDERGROUND POWER AND FIBER UTILITIES TO SERVICE THE FACILITY.

Before You Dig, Drill Or Blast!

**Dig Safely. New York**

UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION

CALL US TOLL FREE 1-800-962-7962

NY industrial code rule 753 requires no less than two working days notice, but not more than ten days notice.

DIG SAFELY – NEW YORK

## DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED FOR 22"x34" FULL SIZE AND 11"x17" HALF SIZE. OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.


verizon
1275 JOHN STREET, SUITE 100
WEST HENRIETTA, NY 14586

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Project Contact Info
36 British American Blvd.
Suite 101
Latham, NY 12110
Phone: (518) 783-1630
(800) 829-6531
www.tectonicengineering.com


| WORK ORDER NUMBER | DRAWN BY |
|---|---|
| 11272.014A | MQ |

| NO. | DATE | ISSUE |
|---|---|---|
| 0 | 2/3/23 | FOR COMMENT |

| RELEASED BY | DATE |
|---|---|
| | |


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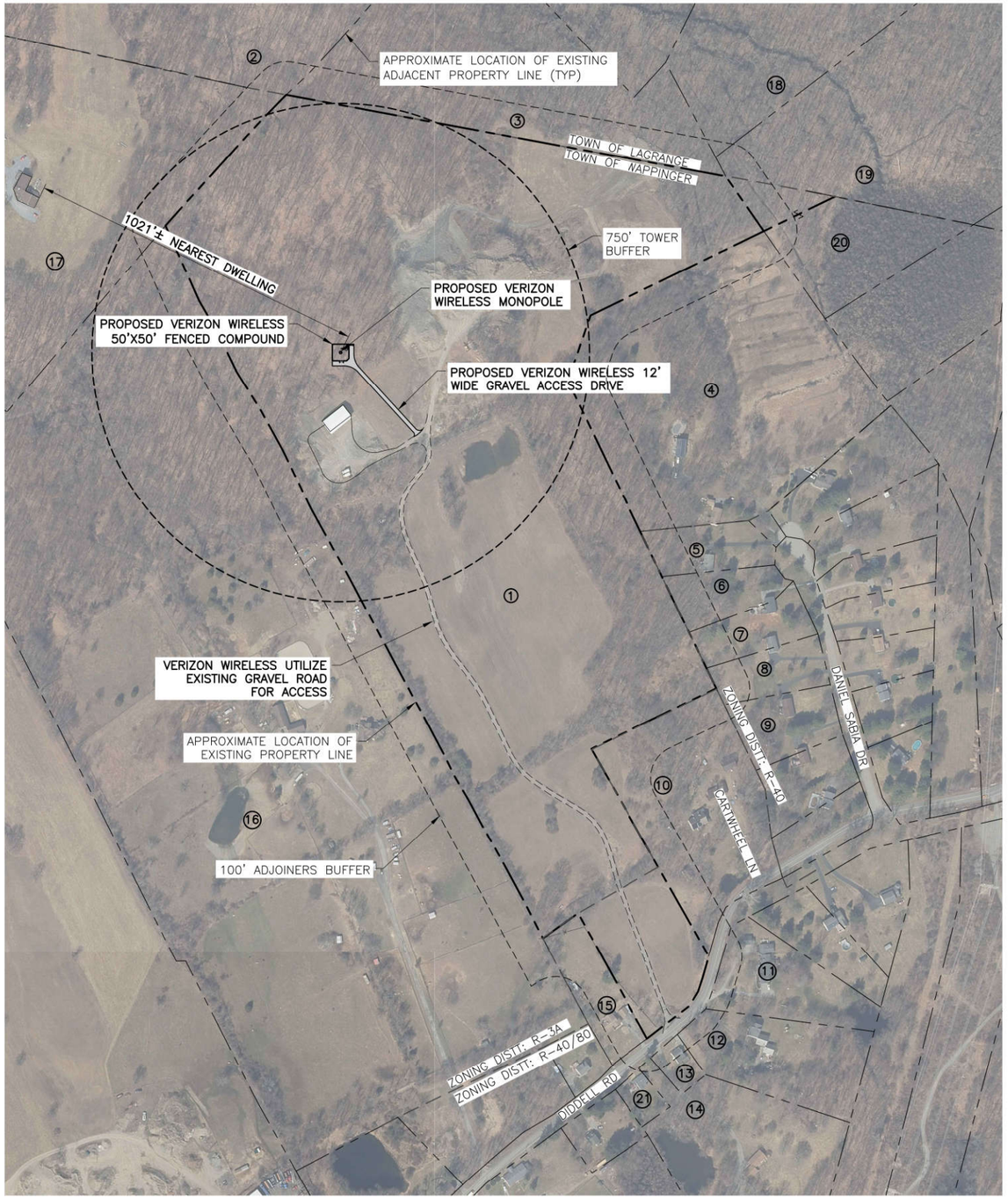
0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION
DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1




NOTE:

THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.

1 / AD-1 ADJOINERS PLAN

SCALE: 1" = 400' (11x17 SIZE)
1" = 200' (22x34 SIZE)

| NUMBER | SBL | OWNER | ADDRESS |
|---|---|---|---|
| 1 | 6359-01-480600 | Meddaugh, Patricia H. Trustee<br>Tiedeman, Craig Trustee | 79 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 2 | 6359-01-265780 | Ostuni, Charles | 333 Maloney Rd<br>Wappingers Falls, NY 12590 |
| 3 | 6359-01-446741 | Meddaugh, Patricia H. Trustee<br>Tiedeman, Craig Trustee | 79 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 4 | 6359-02-507643 | Verdi, Frank<br>Verdi, Janet | 16 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 5 | 6359-02-501608 | Patane, Roger<br>Patane, Deborah L | 14 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 6 | 6359-02-508594 | Sim, Long B. | 12 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 7 | 6359-02-514582 | La Guardia, Ronald J.<br>La Guardia, Dorothy M. | 10 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 8 | 6359-02-520570 | Puchnick, Barbara Rose | 8 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 9 | 6359-02-527553 | Wohlfahrt, Thomas C.<br>Barrett-Wohlfahrt, J | 6 Daniel Sabia Dr<br>Wappingers Falls, NY 12590 |
| 10 | 6359-02-501523 | Seco, Jose L. | PO Box 830<br>Peekskill, NY 10566 |
| 11 | 6359-04-526478 | Amendola, Anthony A.<br>Amendola, Steven<br>Klink-Amendola, Joan M. | 122 Didell Rd<br>Wappingers Falls, NY 12590 |
| 12 | 6359-04-523455 | Reiner, Kurtis W.<br>Reiner, Barbara L. | 118 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 13 | 6359-03-493442 | Goerlich, Corinne F. | 114 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 14 | 6359-04-517410 | Amendola, Anthony S. | 108 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 15 | 6359-03-470467 | Rossbach, Justin David<br>Germano, Treya Brianne | 105 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 16 | 6359-01-376524 | Toulan, Timothy<br>Toulan, Jessica | 87 Diddell Rd<br>Wappingers Falls, NY 12590 |
| 17 | 6359-01-235737 | Ostuni, Charles | 333 Maloney Rd<br>Wappingers Falls, NY 12590 |
| 18 | 6359-02-538805 | McMorrow, John<br>McMorrow, Cindy | 15 Strawberry Ln<br>Poughkeepsie, NY 12603 |
| 19 | 6359-02-556725 | Faison, Alexander III | 65 N Grand Ave<br>Poughkeepsie, NY 12603 |
| 20 | 6359-02-539693 | McRae, Christopher | 715 Taylor Ave<br>Bronx, NY 10473 |
| 21 | 6359-03-485436 | Clancy, Glenn L. Trustee<br>Clancy, Gary R. Trustee | 104 Diddell Rd<br>Wappingers Falls, NY 12590 |

2 / AD-1 ADJOINERS LIST

SCALE: NTS

verizon

1275 JOHN STREET, SUITE 100
WEST HENRIETTA, NY 14586

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| 0 | 2/3/23 | FOR COMMENT |

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0 1 2 3
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SITE INFORMATION

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RE PN: 20222321233
LC: 706668

SITE ADDRESS

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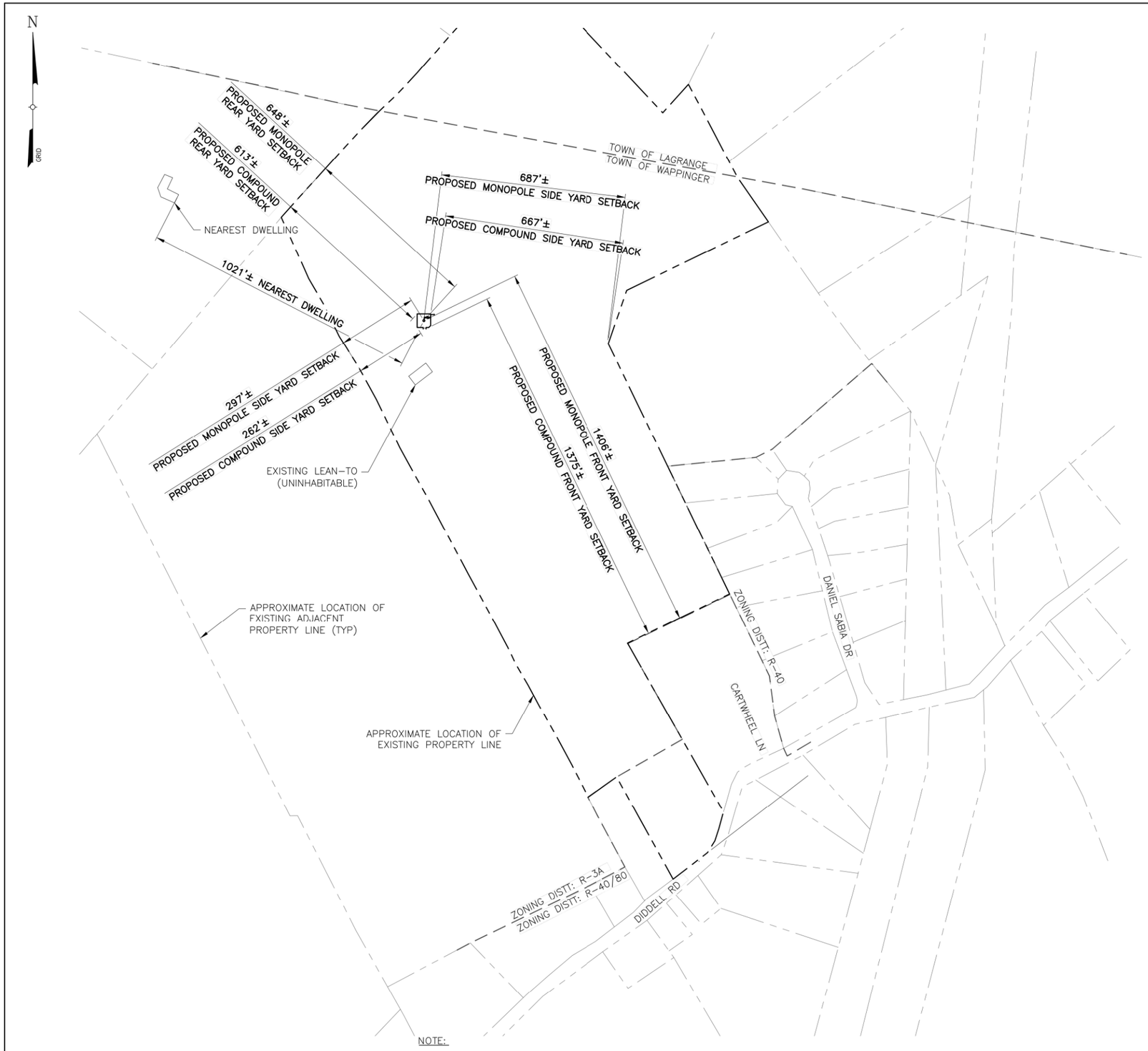
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

ADJOINERS PLAN

SHEET NUMBER

AD-1

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1. THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.

1 SB-1 SETBACK PLAN

SCALE: 1" = 400' (11x17 SIZE)
1" = 200' (22x34 SIZE)

## BULK REQUIREMENTS

TOWN OF WAPPINGER
ZONING DISTRICT: R40/80 AND **R-3A**

| | REQUIRED | EXISTING | PROPOSED |
|---|---|---|---|
| MINIMUM YARDS (TOWER) | | | |
| FRONT: | 180 FT | – | 1406 FT |
| SIDE: | 180 FT | – | 297 FT |
| REAR: | 180 FT | – | 648 FT |
| MINIMUM YARDS (COMPOUND) | | | |
| FRONT: | 75 FT | – | 1375 FT |
| SIDE: | 50 FT | – | 262 FT |
| REAR: | 50 FT | – | 613 FT |
| MAXIMUM TOWER HEIGHT: | | | |
| | BASED ON RF NEED | – | 120 FT |

verizon
1275 JOHN STREET, SUITE 100
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DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

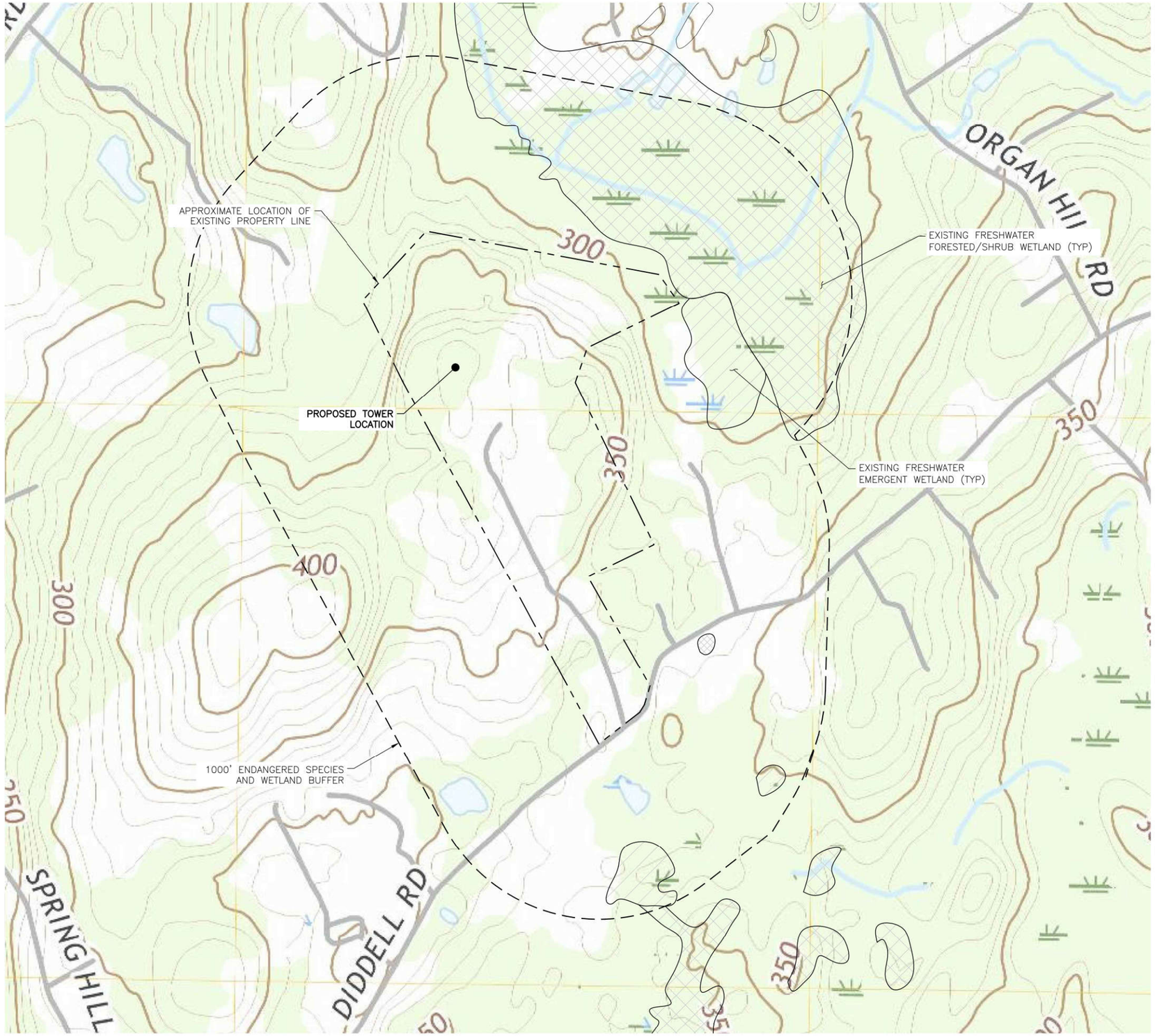
SHEET TITLE

SETBACK PLAN & BULK REQUIREMENTS

SHEET NUMBER

SB-1

N
GRID




NOTE: PROPERTY IS SITUATED IN AREA IDENTIFIED TO BE INHABITED BY ENDANGERED INDIANA BATS.

1 LOC-1 VICINITY MAP

SCALE: 1" = 600' (11x17 SIZE)
1" = 300' (22x34 SIZE)

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(800) 829-6531
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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION

DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS

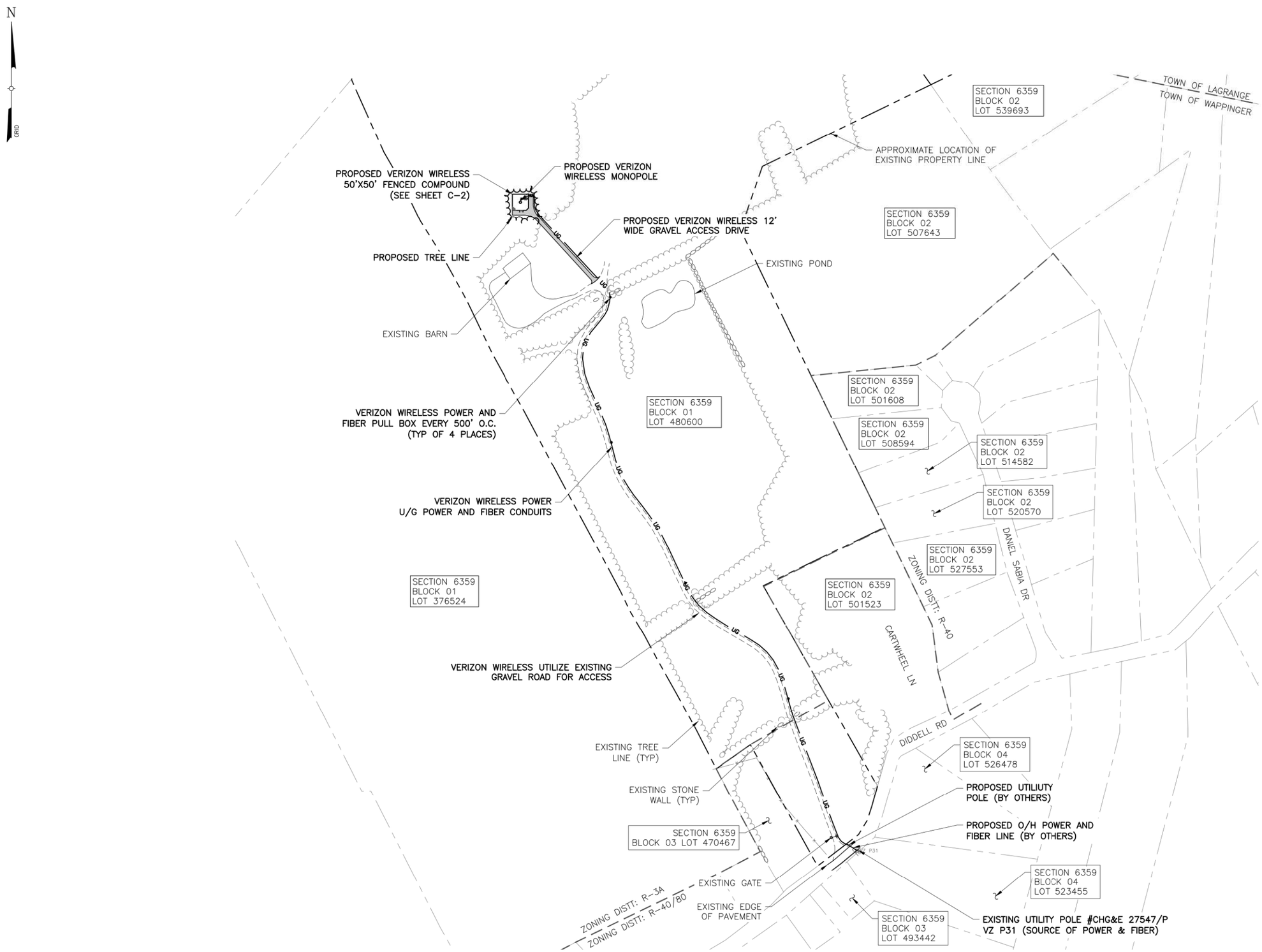
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

VICINITY MAP

SHEET NUMBER

LOC-1




1 C-1A OVERALL SITE PLAN

SCALE: 1" = 300' (11x17 SIZE)
1" = 150' (22x34 SIZE)

NOTE:

THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.

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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION

DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS

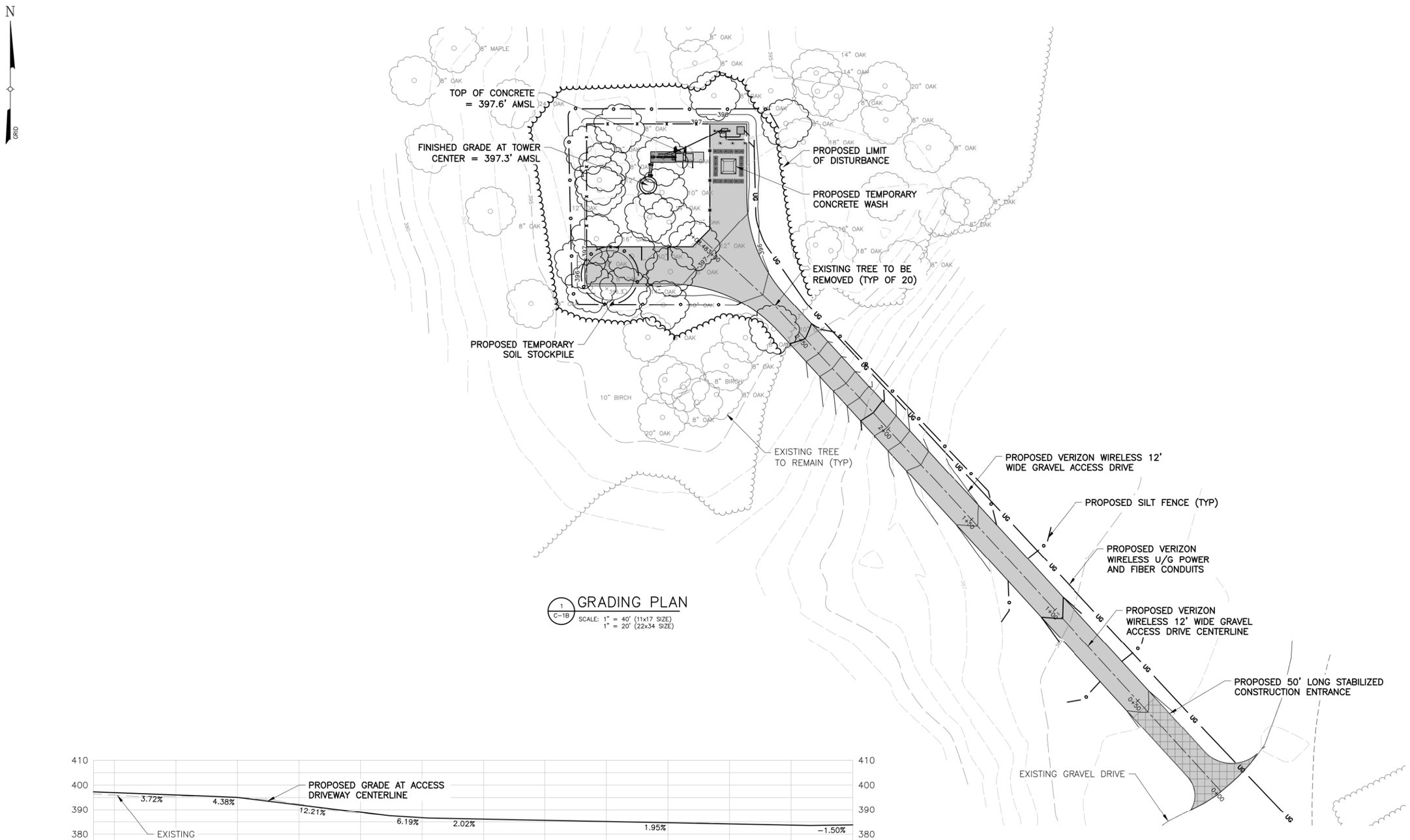
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

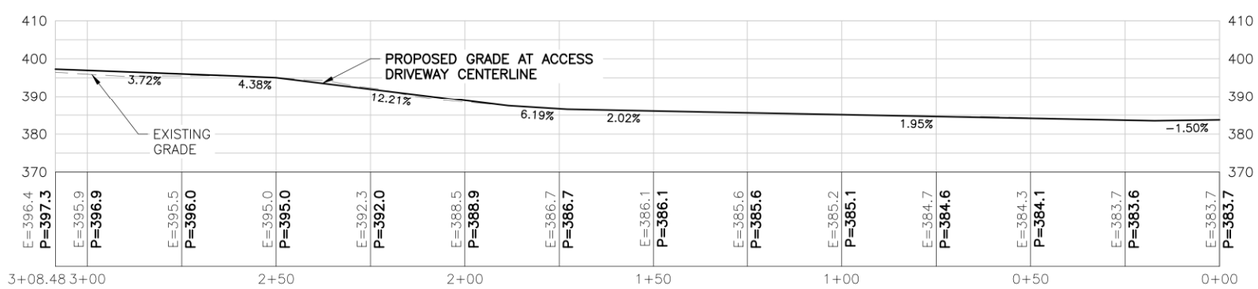
OVERALL SITE PLAN

SHEET NUMBER

C-1A




1 C-1B GRADING PLAN
SCALE: 1" = 40' (11x17 SIZE)
1" = 20' (22x34 SIZE)




2 C-1B DRIVEWAY PLAN & PROFILE
SCALE: 1" = 40' (11x17 SIZE)
1" = 20' (22x34 SIZE)

PROPOSED GRAVEL DRIVE LENGTH = 308.5'±

UNDERGROUND UTILITY LENGTH = 2400'±

AREA OF DISTURBANCE = 10,136 SF ± (0.23 ACRES)

Before You Dig, Drill Or Blast!
Dig Safely. New York
UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION
CALL US TOLL FREE 1-800-962-7962
NY industrial code rule 753 requires no less than two working days notice, but not more than ten days notice.
DIG SAFELY – NEW YORK

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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION
DIDDELL RD
RE PN: 20222321233
LC: 706668

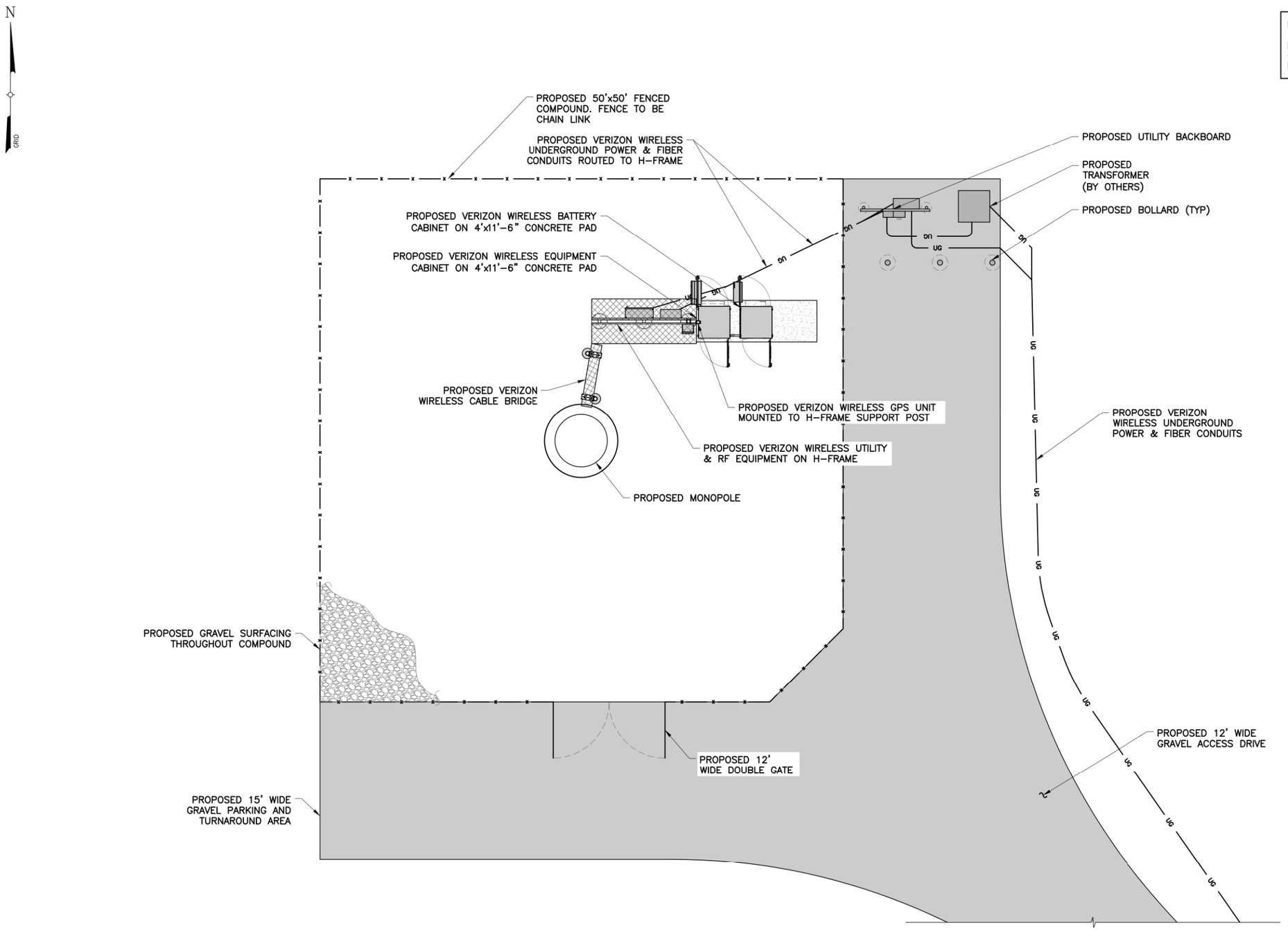
SITE ADDRESS
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE
ROAD PLAN & PROFILE

SHEET NUMBER
C-1B

NOTE:

PROPOSED MONOPOLE WILL HAVE A GALVANIZED STEEL FINISH RESULTING IN A MATTE GRAY APPEARANCE




1 / C-2 SITE DETAIL PLAN

SCALE: 1" = 10' (11x17 SIZE)
1" = 5' (22x34 SIZE)

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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION

DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS

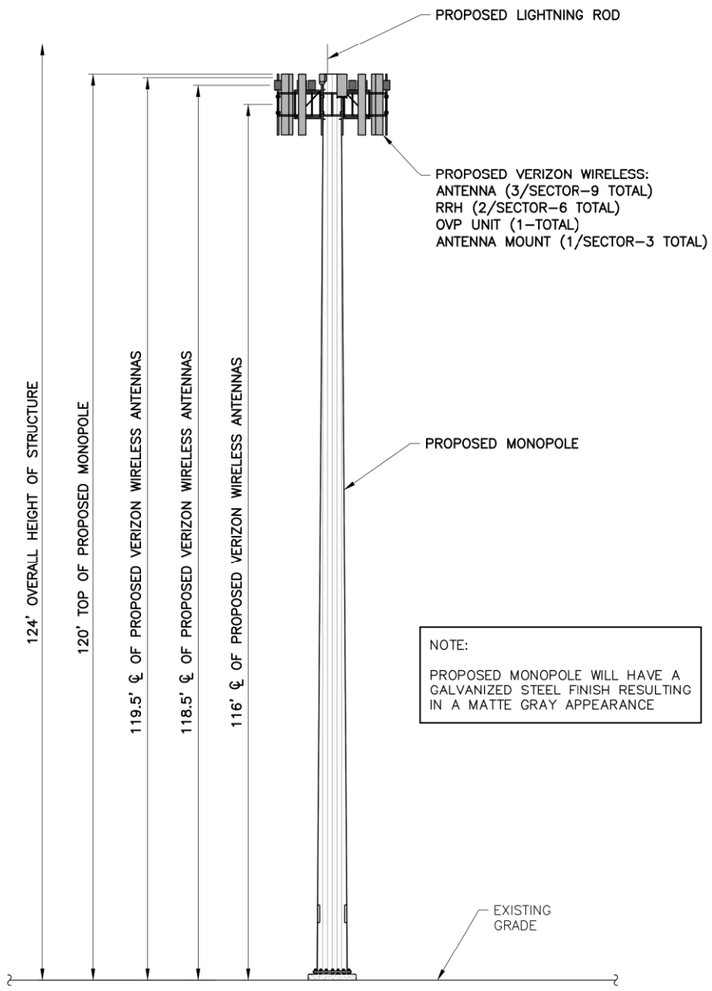
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

SITE DETAIL PLAN

SHEET NUMBER

C-2

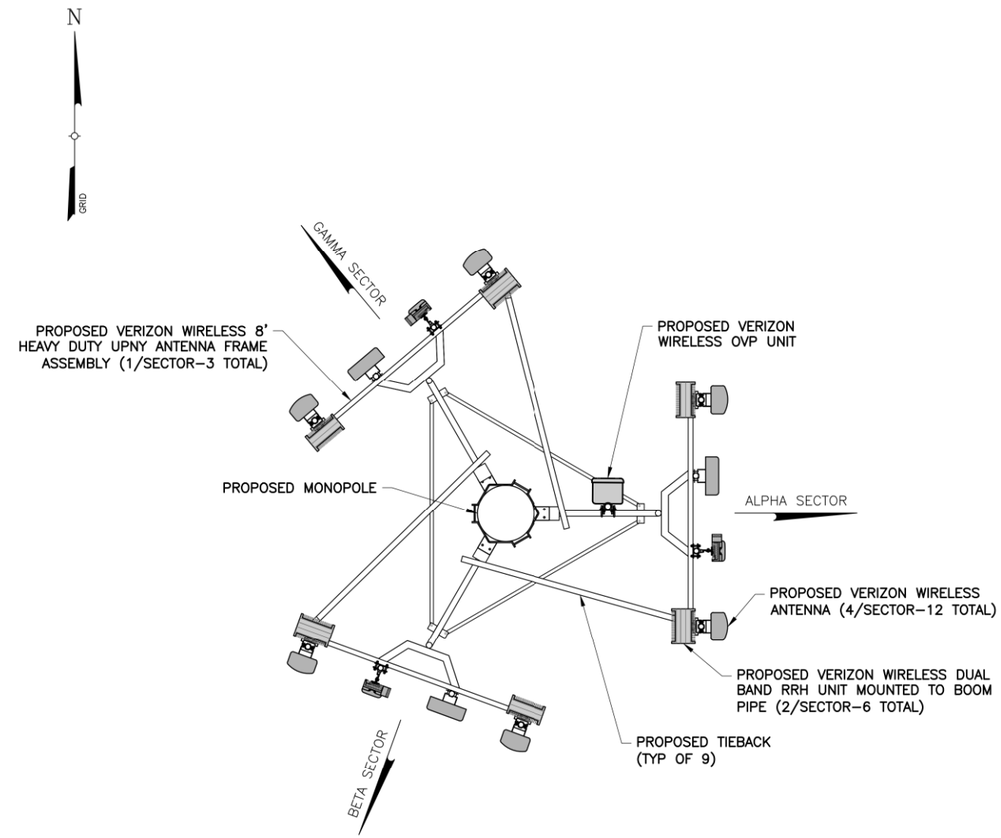



NOTE:

PROPOSED MONOPOLE WILL HAVE A GALVANIZED STEEL FINISH RESULTING IN A MATTE GRAY APPEARANCE

1 / C–3 ELEVATION

SCALE: 1" = 20' (11x17 SIZE)
1" = 10' (22x34 SIZE)




2 / C–3 ANTENNA ORIENTATION

SCALE: 3/4" = 1'–0" (11x17 SIZE)
3/8" = 1'–0" (22x34 SIZE)

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LC: 706668

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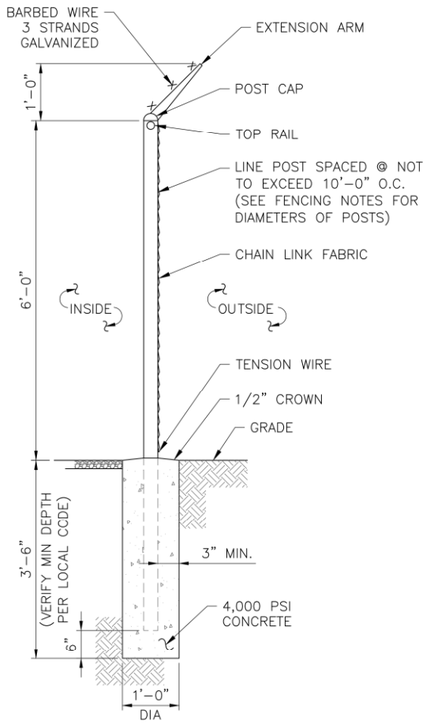
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

ELEVATION &
ORIENTATION PLAN

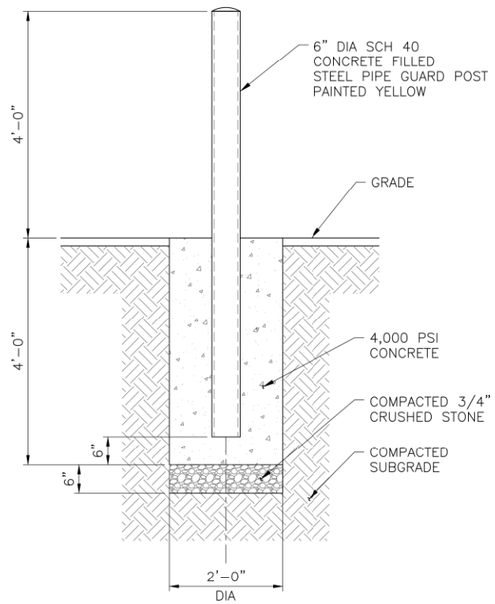
SHEET NUMBER

C–3



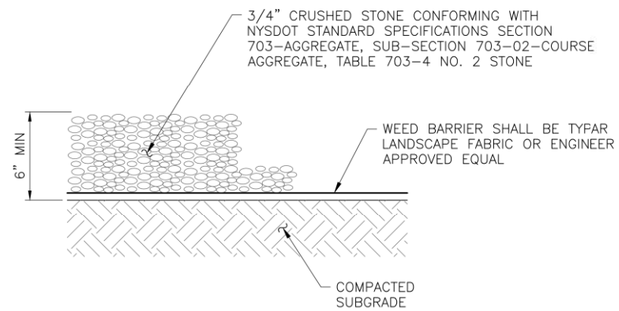

1 C-4A FENCE DETAIL

SCALE: 3/8" = 1'-0" (11x17 SIZE)
3/4" = 1'-0" (22x34 SIZE)



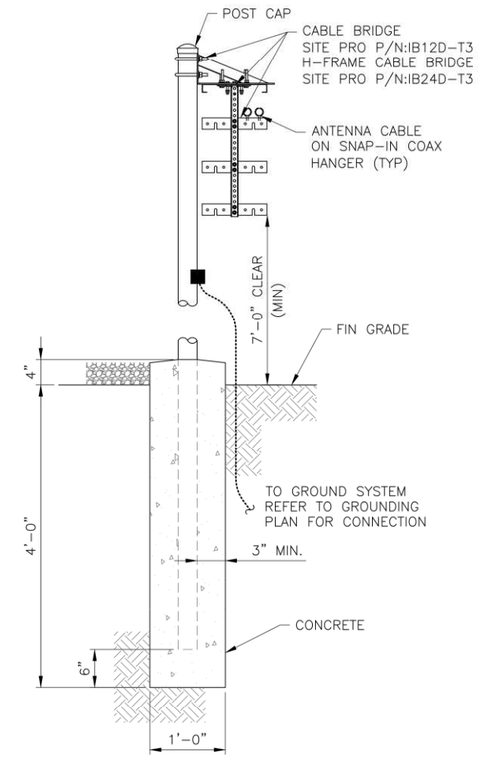

2 C-4A BOLLARD DETAIL

SCALE: 3/8" = 1'-0" (11x17 SIZE)
3/4" = 1'-0" (22x34 SIZE)



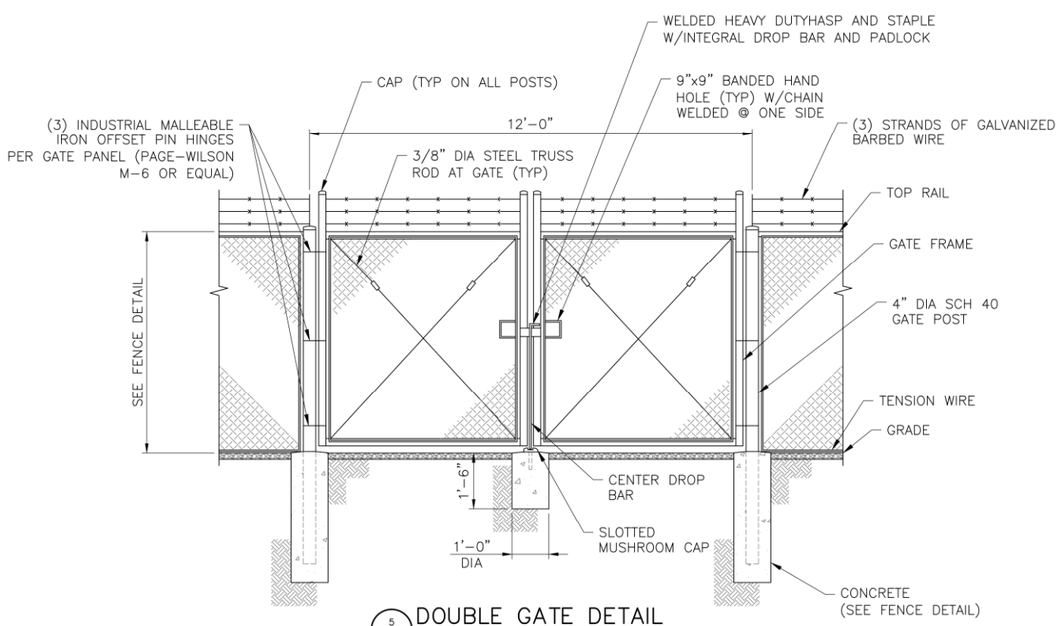

3 C-4A GRAVEL SURFACING TREATMENT

SCALE: 1/2" = 1'-0" (11x17 SIZE)
1 1/2" = 1'-0" (22x34 SIZE)




4 C-4A CABLE BRIDGE

SCALE: 1/2" = 1'-0" (11x17 SIZE)
1" = 1'-0" (22x34 SIZE)




5 C-4A DOUBLE GATE DETAIL

SCALE: 1/4" = 1'-0" (11x17 SIZE)
1/2" = 1'-0" (22x34 SIZE)

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0 1 2 3
ORIGINAL SIZE IN INCHES


SITE INFORMATION

DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS

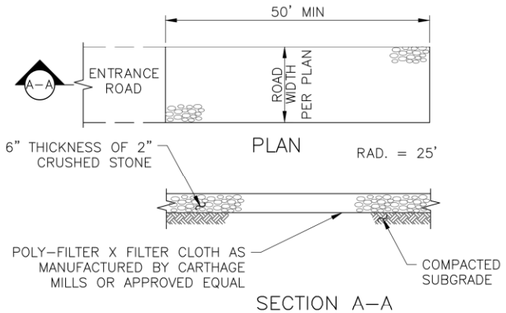
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C-4A

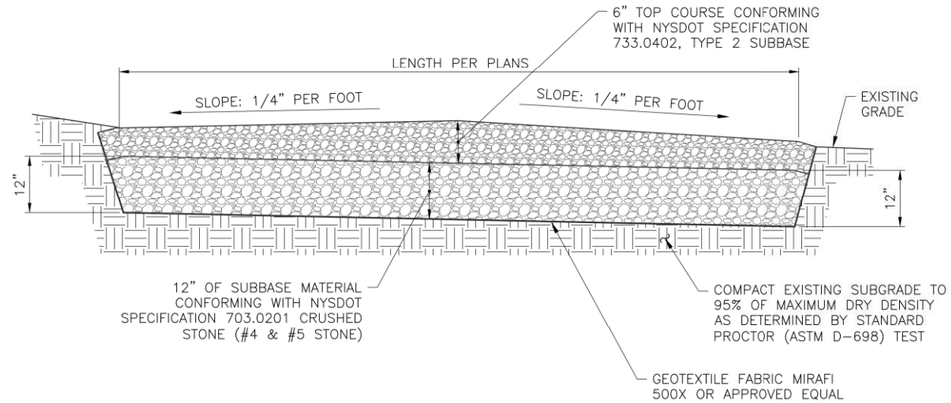



NOTES:

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET
3. THICKNESS – NOT LESS THAN SIX INCHES
4. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. IF ACCUMULATED SOIL DOES NOT COME OFF BY WAY OF STABILIZED CONSTRUCTION ENTRANCE, THE CONTRACTOR SHALL KNOCK OFF ACCUMULATED SOIL BY MANUAL METHODS UPSLOPE OF A SILT FENCE BARRIER.
9. SEDIMENT TRAPPING – SILT FENCE BARRIER SHALL BE INSTALLED DOWN SLOPE OF CONSTRUCTION ENTRANCE TO CATCH ANY SEDIMENT THAT COULD POTENTIALLY FALL OFF OF CONSTRUCTION EQUIPMENT AND/OR VEHICLES.
10. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

## 1 / C–4B STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

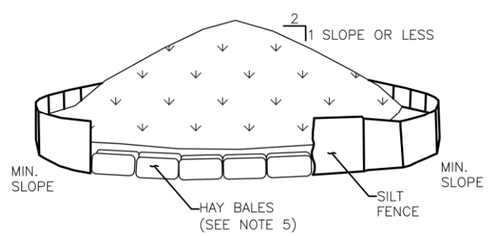



EARTH WORK SUBGRADE COMPACTION & SELECT GRANULAR FILL

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING THE CONSTRUCTION SITE AND ROADWAY AREAS. THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT, AS PREPARED FOR THIS SITE, WHEN NECESSARY, FOR SITE WORK PREPARATION, & FOUNDATION WORK. AS A MINIMUM THE TOP 3" OF GRADE SHALL BE REMOVED, THE EXPOSED SUBGRADE COMPACTED AND GEOTEXTILE FABRIC INSTALLED AS REQUIRED FOR UNSTABLE SOIL CONDITION.
2. ALL SELECT GRANULAR FILL SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST (ASTM D–1557) AND WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
3. CONTRACTOR TO ASSURE THAT EXISTING DRAINAGE PATTERNS ARE MAINTAINED.

## 2 / C–4B GRAVEL DRIVE CROSS SECTION

SCALE: 3/8" = 1'–0" (11x17 SIZE)
3/4" = 1'–0" (22x34 SIZE)

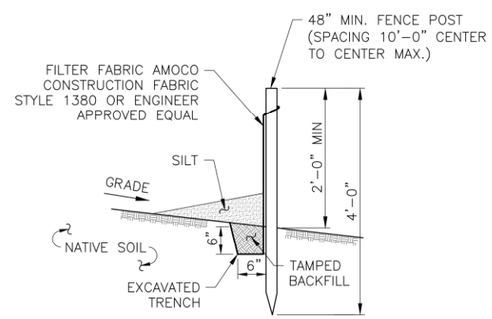



NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
5. HAYBALES TO BE USED WHERE STOCKPILES ARE LOCATED ON PAVED AREAS.

## 3 / C–4B TEMPORARY SOIL STOCKPILE DETAIL

SCALE: NTS

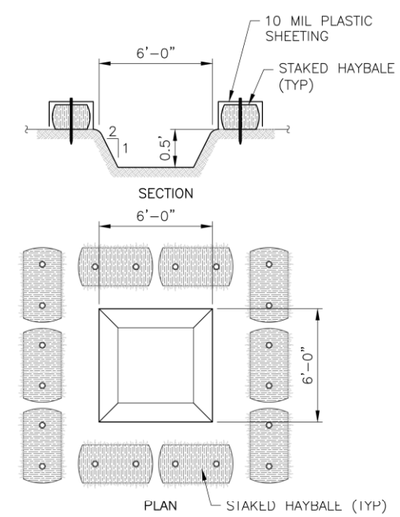



NOTES:

1. SILT FENCE SHALL BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
2. CONTRACTOR SHALL CONSTRUCT SILT FENCE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
3. EXCAVATE TRENCH 6" WIDE X 6" DEEP. BURY BOTTOM 12" OF FABRIC AND TAMP IN PLACE.
4. WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, ALL THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACK FILLED WITH TOPSOIL AND SEEDED.

## 4 / C–4B SILT FENCE DETAIL

SCALE: NTS




## 5 / C–4B TEMPORARY CONCRETE WASH

SCALE: NTS

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WEST HENRIETTA, NY 14586

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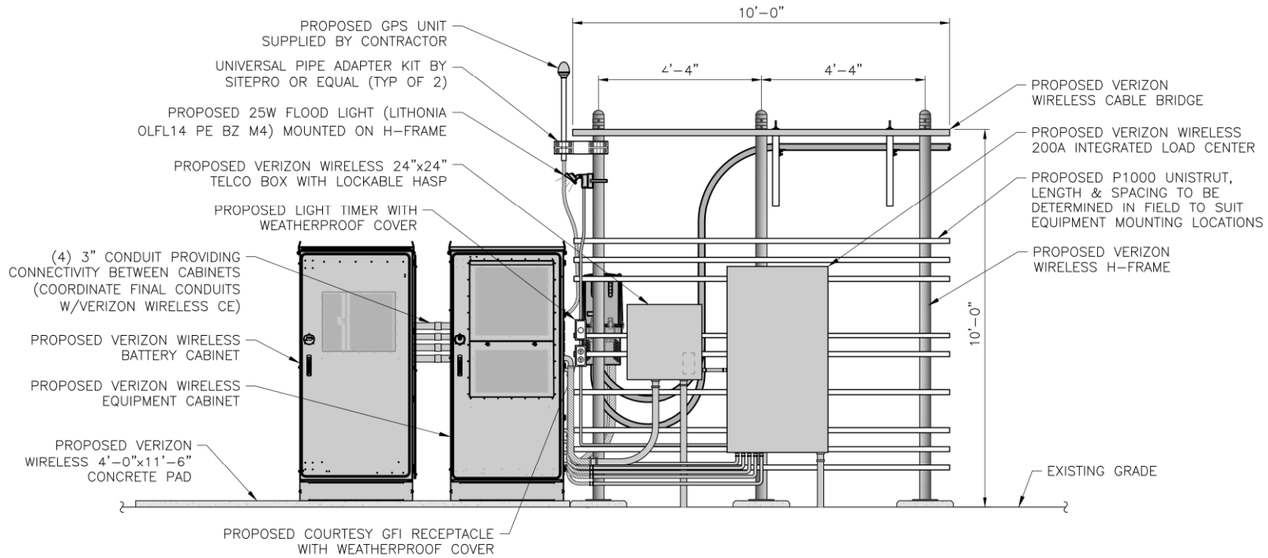
0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION
DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS
DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

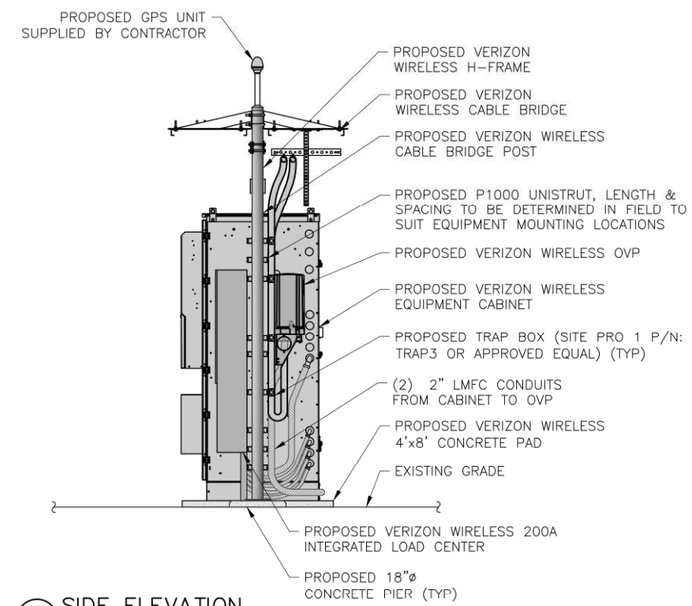
SHEET TITLE
SITE DETAILS

SHEET NUMBER
C–4B



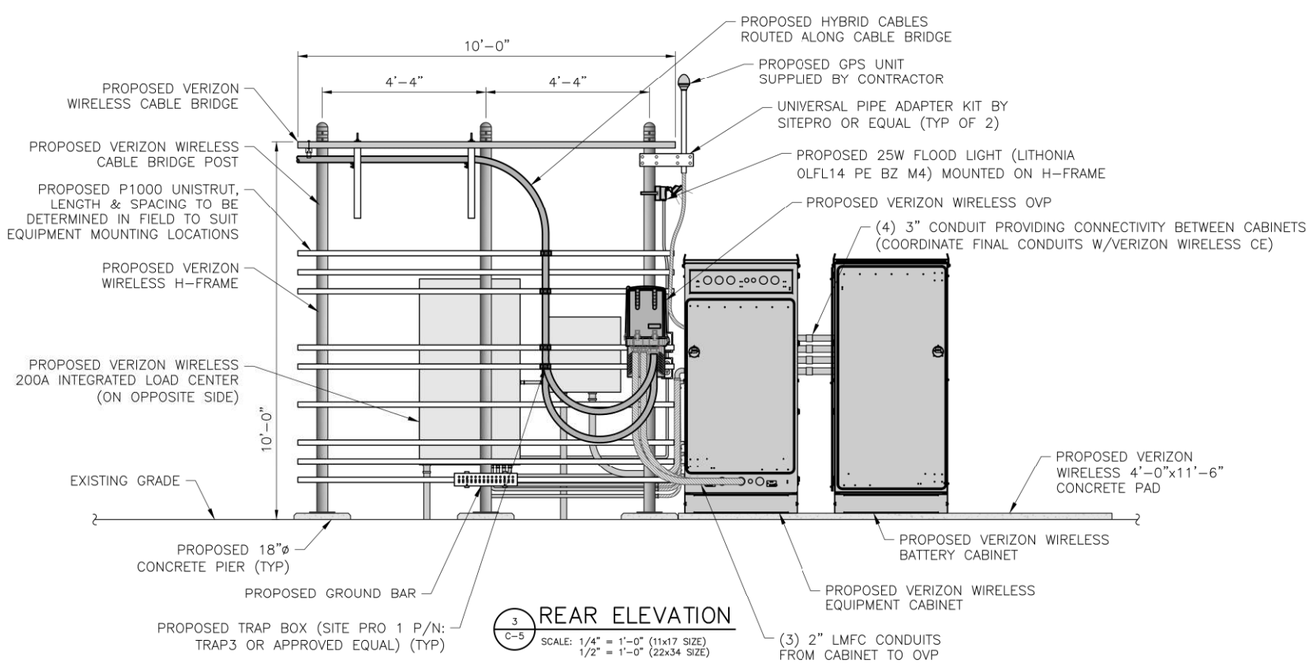

1 C-5 FRONT ELEVATION

SCALE: 1/4" = 1'-0" (11x17 SIZE)
1/2" = 1'-0" (22x34 SIZE)



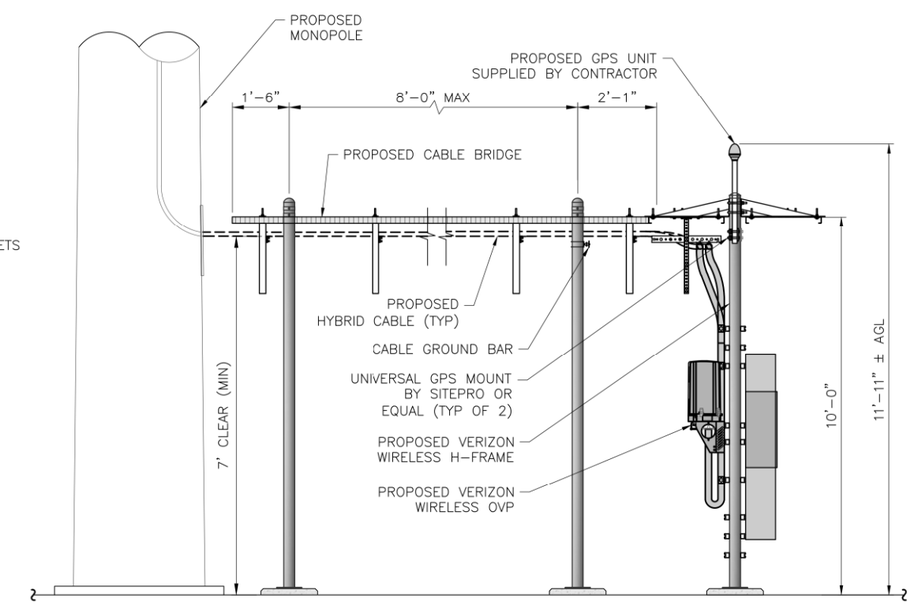

2 C-5 SIDE ELEVATION

SCALE: 1/4" = 1'-0" (11x17 SIZE)
1/2" = 1'-0" (22x34 SIZE)




3 C-5 REAR ELEVATION

SCALE: 1/4" = 1'-0" (11x17 SIZE)
1/2" = 1'-0" (22x34 SIZE)




4 C-5 EQUIPMENT ELEVATION

SCALE: 1/4" = 1'-0" (11x17 SIZE)
1/2" = 1'-0" (22x34 SIZE)

verizon

1275 JOHN STREET, SUITE 100
WEST HENRIETTA, NY 14586

Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.
Project Contact Info
36 British American Blvd. Suite 101
Latham, NY 12110
Phone: (518) 783-1630
(800) 829-6531
www.tectonicengineering.com

| WORK ORDER NUMBER | DRAWN BY |
|---|---|
| 11272.014A | MQ |

| NO. | DATE | ISSUE |
|---|---|---|
| 0 | 2/3/23 | FOR COMMENT |

| RELEASED BY | DATE |
|---|---|
| | |

UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN BEARING THE SEAL OF A LICENSED ENGINEER OR LAND SURVEYOR IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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0 1 2 3
ORIGINAL SIZE IN INCHES

SITE INFORMATION

DIDDELL RD
RE PN: 20222321233
LC: 706668

SITE ADDRESS

DIDDELL RD
TOWN OF WAPPINGER
DUTCHESS COUNTY
NY 12590

SHEET TITLE

EQUIPMENT ELEVATIONS

SHEET NUMBER

C-5

**DOCUMENTATION OF PUBLIC UTILITY STATUS**
**and**
**OVERVIEW OF ROSENBERG DECISION**

In *Cellular Tel. Co. v. Rosenberg*, 82 N.Y.2d 364 (1993), the New York Court of Appeals determined that cellular telephone companies are public utilities. The Court held that proposed cellular telephone installations are to be reviewed by zoning boards pursuant to the traditional standard afforded to public utilities, rather than the standards generally required for the necessary approvals:

> It has long been held that a zoning board may not exclude a utility from a community where the utility has shown a need for its facilities. There can be no question of [the carrier's] need to erect the cell site to eliminate service gaps in its cellular telephone service area. The proposed cell site will also improve the transmission and reception of existing service. Application of our holding in *Matter of Consolidated Edison* to sitings of cellular telephone companies, such as [the applicant], permits those companies to construct structures necessary for their operation which are prohibited because of existing zoning laws and to provide the desired services to the surrounding community. . . . Moreover, the record supports the conclusion that [the applicant] sustained its burden of proving the requisite public necessity. [The applicant] established that the erection of the cell site would enable it to remedy gaps in its service area that currently prevent it from providing adequate service to its customers in the . . . area.

*Rosenberg*, 82 N.Y.2d at 372-74 (citing *Consolidated Edison Co. v. Hoffman*, 43 N.Y.2d 598 (1978)).

This special treatment of a public utility stems from the essential nature of its service, and the fact that a public utility transmitting facility must be located in a particular area in order to provide service. For instance, water towers, electric switching stations, water pumping stations and telephone poles must be in particular locations (including within residential districts) in order to provide the utility to a specific area:

> [Public] utility services are needed in all districts; the service can be provided only if certain facilities (for example, substations) can be located in commercial and even in residential districts. To exclude such use would result in an impairment of an essential service.

Anderson, New York Zoning Law Practice, 3d ed., p. 411 (1984) (hereafter "Anderson"). See also, *Cellular Tel. Co. v. Rosenberg*, 82 N.Y.2d 364 (1993); *Payne v. Taylor*, 178 A.D.2d 979 (4th Dep't 1991).

Accordingly, the law in New York is that a municipality may not prohibit facilities, including towers, necessary for the transmission of a public utility. In *Rosenberg*, 82 N.Y.2d at 371, the court found that "the construction of an antenna tower... to facilitate the supply of cellular telephone service is a 'public utility building' within the meaning of a zoning ordinance." See also *Long Island Lighting Co. v. Griffin*, 272 A.D. 551 (2d Dep't 1947) (a municipal corporation may not prohibit the expansion of a public utility where such expansion is necessary to the maintenance of essential services).

In the present case, Verizon Wireless does not have reliable service capacity in the Town. The communications facility proposed is necessary to remedy this service problem and to provide adequate and reliable wireless telecommunications service coverage to this area. Therefore, Verizon Wireless satisfies the requisite showing of need for the facility under applicable New York law.

**DOCUMENTATION OF PERSONAL WIRELESS SERVICE FACILITY STATUS**
**and**
**FEDERAL TELECOMMUNICATIONS ACT OF 1996**

In addition to being considered a public utility under New York decisional law, Verizon Wireless is classified as a provider of "personal wireless services" under the federal Telecommunications Act of 1996 (the "TCA").

As stated in the long title of the Act, the goal of the TCA is to "promote competition and reduce regulation in order to secure lower prices and higher quality services for American telecommunications consumers and encourage the rapid deployment of new telecommunications technologies." *Telecommunications Act of 1996, Pub. LA. No. 104-104, 110 Stat. 56 (1996).*

The TCA mandates a process designed to achieve competitive telecommunications markets. In keeping with the central goals of the TCA, the authors specify in Section 253(a) that "[n]o State or local statute or regulation…may prohibit or have the effect of prohibiting the ability of <u>any</u> entity to provide <u>any</u> interstate or intrastate telecommunications service." *TCA Section 253(a), emphasis added*.

Section 332(c) of the TCA preserves the authority of a State or local government or instrumentality thereof over decisions regarding the placement, construction and modification of personal wireless service facilities, subject to several important limitations:

- the "regulation of the placement…of personal wireless service facilities by any State or local government or instrumentality thereof shall not unreasonably discriminate among providers of functionally equivalent services" (*TCA §332(c)(7)(B)(i)(I)*);

- the "regulation of the placement…of personal wireless service facilities by any State or local government or instrumentality thereof shall not prohibit or have the effect of prohibiting the provision of personal wireless services" (*TCA §332(c)(7)(B)(i)(II)*);

- Applications must be processed within a reasonable period of time, and any decision to deny a request for placement of personal wireless service facilities must be in writing and supported by substantial evidence contained in a written record (*TCA §§332(c)(7)(B)(ii) and (iii)*); and

- regulations based upon the perceived environmental effects of radio frequency emissions are prohibited, so long as the proposed personal wireless service facility complies with FCC regulations concerning such emissions (*TCA §332(c)(7)(B)(iv)*).

A reference copy of the Telecommunications Act of 1996 is included herewith.

104TH CONGRESS 2d Session } HOUSE OF REPRESENTATIVES { REPORT 104–458

# TELECOMMUNICATIONS ACT OF 1996

JANUARY 31, 1996. Ordered to be printed

Mr. BLILEY, from the committee of conference, submitted the following

## CONFERENCE REPORT

[To accompany S. 652]

The committee of conference on the disagreeing votes of the two Houses on the amendments of the House to the bill (S. 652), to provide for a pro-competitive, de-regulatory national policy framework designed to accelerate rapidly private sector deployment of advanced telecommunications and information technologies and services to all Americans by opening all telecommunications markets to competition, and for other purposes, having met, after full and free conference, have agreed to recommend and do recommend to their respective Houses as follows:

That the Senate recede from its disagreement to the amendment of the House to the text of the bill and agree to the same with an amendment as follows:

In lieu of the matter proposed to be inserted by the House amendment, insert the following:

***SECTION 1. SHORT TITLE; REFERENCES.***

*(a) SHORT TITLE.—This Act may be cited as the "Telecommunications Act of 1996".*

*(b) REFERENCES.—Except as otherwise expressly provided, whenever in this Act an amendment or repeal is expressed in terms of an amendment to, or repeal of, a section or other provision, the reference shall be considered to be made to a section or other provision of the Communications Act of 1934 (47 U.S.C. 151 et seq.).*

***SEC. 2. TABLE OF CONTENTS.***

*The table of contents for this Act is as follows:*



22–327

Federal Communications Commission
Library

[redacted]
*tity that has obtained an attachment to such conduit or right-of-way so that such entity may have a reasonable opportunity to add to or modify its existing attachment. Any entity that adds to or modifies its existing attachment after receiving such notification shall bear a proportionate share of the costs incurred by the owner in making such pole, duct, conduit, or right-of-way accessible.*

[redacted]
*right-of-way shall not be required to bear any of the costs of rearranging or replacement of its attachment, if such rearrangement or replacement is required as a result of an additional attachment or the modification of an existing attachment sought by any other entity* [redacted]

***SEC. 704. FACILITIES SITING; RADIO FREQUENCY EMISSION STANDARDS.***

*(a) NATIONAL WIRELESS TELECOMMUNICATIONS SITING POLICY.—Section 332(c) (47 U.S.C. 332(c)) is amended by adding at the end the following new paragraph:*

*"(7) PRESERVATION OF LOCAL ZONING AUTHORITY.—*

*"(A) GENERAL AUTHORITY.—Except as provided in this paragraph, nothing in this Act shall limit or affect the authority of a State or local government or instrumentality thereof over decisions regarding the placement, construction, and modification of personal wireless service facilities.*

*"(B) LIMITATIONS.—*

*"(i) The regulation of the placement, construction, and modification of personal wireless service facilities by any State or local government or instrumentality thereof—*

*"(I) shall not unreasonably discriminate among providers of functionally equivalent services; and*

*"(II) shall not prohibit or have the effect of prohibiting the provision of personal wireless services.*

*"(ii) A State or local government or instrumentality thereof shall act on any request for authorization to place, construct, or modify personal wireless service facilities within a reasonable period of time after the request is duly filed with such government or instrumentality, taking into account the nature and scope of such request.*

*"(iii) Any decision by a State or local government or instrumentality thereof to deny a request to place, construct, or modify personal wireless service facilities shall be in writing and supported by substantial evidence contained in a written record.*

*"(iv) No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions.*

*"(v) Any person adversely affected by any final action or failure to act by a State or local government or any instrumentality thereof that is inconsistent with this subparagraph may, within 30 days after such action or failure to act, commence an action in any court of competent jurisdiction. The court shall hear and decide such action on an expedited basis. Any person adversely affected by an act or failure to act by a State or local government or any instrumentality thereof that is inconsistent with clause (iv) may petition the Commission for relief.*

*"(C) DEFINITIONS.—For purposes of this paragraph—*

*"(i) the term 'personal wireless services' means commercial mobile services, unlicensed wireless services, and common carrier wireless exchange access services;*

*"(ii) the term 'personal wireless service facilities' means facilities for the provision of personal wireless services; and*

*"(iii) the term 'unlicensed wireless service' means the offering of telecommunications services using duly authorized devices which do not require individual licenses, but does not mean the provision of direct-to-home satellite services (as defined in section 303(v)).".*

*(b) RADIO FREQUENCY EMISSIONS.—Within 180 days after the enactment of this Act, the Commission shall complete action in ET Docket 93–62 to prescribe and make effective rules regarding the environmental effects of radio frequency emissions.*

*(c) AVAILABILITY OF PROPERTY.—Within 180 days of the enactment of this Act, the President or his designee shall prescribe procedures by which Federal departments and agencies may make available on a fair, reasonable, and nondiscriminatory basis, property, rights-of-way, and easements under their control for the placement of new telecommunications services that are dependent, in whole or in part, upon the utilization of Federal spectrum rights for the transmission or reception of such services. These procedures may establish a presumption that requests for the use of property, rights-of-way, and easements by duly authorized providers should be granted absent unavoidable direct conflict with the department or agency's mission, or the current or planned use of the property, rights-of-way, and easements in question. Reasonable fees may be charged to providers of such telecommunications services for use of property, rights-of-way, and easements. The Commission shall provide technical support to States to encourage them to make property, rights-of-way, and easements under their jurisdiction available for such purposes.*

***SEC. 703. MOBILE SERVICE DIRECT ACCESS TO LONG DISTANCE CARRIERS.***

*Section 332(c) (47 U.S.C. 332(c)) is amended by adding at the end the following new paragraph:*

*"(8) MOBILE SERVICES ACCESS.—A person engaged in the provision of commercial mobile services, insofar as such person is so engaged, shall not be required to provide equal access to common carriers for the provision of telephone toll service.".*

portionate share of the costs incurred by the owner in making such conduit or right-of-way accessible.

*Conference agreement*

The conference agreement adopts the Senate provision with modifications. The conference agreement amends section 224 of the Communications Act by adding new subsection (e)(1) to allow parties to negotiate the rates, terms, and conditions for attaching to poles, ducts, conduits, and rights-of-way owned or controlled by utilities. New subsection 224(e)(2) establishes a new rate formula charged to telecommunications carriers for the non-useable space of each pole. Such rate shall be based upon the number of attaching entities. The conferees also agree to three additional provisions from the House amendment. First, subsection (g) requires utilities that engage in the provision of telecommunications services or cable services to impute to its costs of providing such service an equal amount to the pole attachment rate for which such company would be liable under section 224. Second, new subsection 224(h) requires utilities to provide written notification to attaching entities of any plans to modify or alter its poles, ducts, conduit, or rights-of-way. New subsection 224(h) also requires any attaching entity that takes advantage of such opportunity to modify its own attachments shall bear a proportionate share of the costs of such alterations. Third, new subsection 224(i) prevents a utility from imposing the cost of rearrangements to other attaching entities if done solely for the benefit of the utility.

SECTION 704—FACILITIES SITING; RADIO FREQUENCY EMISSION STANDARDS

*Senate bill*

No provision.

*House amendment*

Section 108 of the House amendment required the Commission to issue regulations within 180 days of enactment for siting of CMS. A negotiated rulemaking committee comprised of State and local governments, public safety agencies and the affected industries were to have attempted to develop a uniform policy to propose to the Commission for the siting of wireless tower sites.

The House amendment also required the Commission to complete its pending Radio Frequency (RF) emission exposure standards within 180 days of enactment. The siting of facilities could not be denied on the basis of RF emission levels for facilities that were in compliance with the Commission standard.

The House amendment also required that to the greatest extent possible the Federal government make available to use of Federal property, rights-of-way, easements and any other physical instruments in the siting of wireless telecommunications facilities.

*Conference agreement*

The conference agreement creates a new section 704 which prevents Commission preemption of local and State land use decisions and preserves the authority of State and local governments over

zoning and land use matters except in the limited circumstances set forth in the conference agreement. The conference agreement also provides a mechanism for judicial relief from zoning decisions that fail to comply with the provisions of this section. It is the intent of the conferees that other than under section 332(c)(7)(B)(iv) of the Communications Act of 1934 as amended by this Act and section 704 of the Telecommunications Act of 1996 the courts shall have exclusive jurisdiction over all other disputes arising under this section. Any pending Commission rulemaking concerning the preemption of local zoning authority over the placement, construction or modification of CMS facilities should be terminated.

When utilizing the term "functionally equivalent services" the conferees are referring only to personal wireless services as defined in this section that directly compete against one another. The intent of the conferees is to ensure that a State or local government does not in making a decision regarding the placement, construction and modification of facilities of personal wireless services described in this section unreasonably favor one competitor over another. The conferees also intend that the phrase "unreasonably discriminate among providers of functionally equivalent services" will provide localities with the flexibility to treat facilities that create different visual, aesthetic, or safety concerns differently to the extent permitted under generally applicable zoning requirements even if those facilities provide functionally equivalent services. For example, the conferees do not intend that if a State or local government grants a permit in a commercial district, it must also grant a permit for a competitor's 50-foot tower in a residential district.

Actions taken by State or local governments shall not prohibit or have the effect of prohibiting the placement, construction or modification of personal wireless services. It is the intent of this section that bans or policies that have the effect of banning personal wireless services or facilities not be allowed and that decisions be made on a case-by-case basis.

Under subsection (c)(7)(B)(ii), decisions are to be rendered in a reasonable period of time, taking into account the nature and scope of each request. If a request for placement of a personal wireless service facility involves a zoning variance or a public hearing or comment process, the time period for rendering a decision will be the usual period under such circumstances. It is not the intent of this provision to give preferential treatment to the personal wireless service industry in the processing of requests, or to subject their requests to any but the generally applicable time frames for zoning decision.

The phrase "substantial evidence contained in a written record" is the traditional standard used for judicial review of agency actions.

The conferees intend section 332(c)(7)(B)(iv) to prevent a State or local government or its instrumentalities from basing the regulation of the placement, construction or modification of CMS facilities directly or indirectly on the environmental effects of radio frequency emissions if those facilities comply with the Commission's regulations adopted pursuant to section 704(b) concerning such emissions.

The limitations on the role and powers of the Commission under this subparagraph relate to local land use regulations and are not intended to limit or affect the Commission's general authority over radio telecommunications, including the authority to regulate the construction, modification and operation of radio facilities.

The conferees intend that the court to which a party appeals a decision under section 332(c)(7)(B)(v) may be the Federal district court in which the facilities are located or a State court of competent jurisdiction, at the option of the party making the appeal, and that the courts act expeditiously in deciding such cases. The term "final action" of that new subparagraph means final administrative action at the State or local government level so that a party can commence action under the subparagraph rather than waiting for the exhaustion of any independent State court remedy otherwise required.

With respect to the availability of Federal property for the use of wireless telecommunications infrastructure sites under section 704(c), the conferees generally adopt the House provisions, but substitute the President or his designee for the Commission.

It should be noted that the provisions relating to telecommunications facilities are not limited to commercial mobile radio licensees, but also will include other Commission licensed wireless common carriers such as point to point microwave in the extremely high frequency portion of the electromagnetic spectrum which rely on line of sight for transmitting communication services.

## SECTION 705—MOBILE SERVICE DIRECT ACCESS TO LONG DISTANCE CARRIERS

*Senate bill*

Subsection (b) of section 221 of the Senate bill, as passed, states that notwithstanding the MFJ or any other consent decree, no CMS provider will be required by court order or otherwise to provide long distance equal access. The Commission may only order equal access if a CMS provider is subject to the interconnection obligations of section 251 and if the Commission finds that such a requirement is in the public interest. CMS providers shall ensure that its subscribers can obtain unblocked access to the interexchange carrier of their choice through the use of interexchange carrier identification codes, except that the unblocking requirement shall not apply to mobile satellite services unless the Commission finds it is in the public interest.

*House amendment*

Under section 109 of the House amendment, the Commission shall require providers of two-way switched voice CMS to allow their subscribers to access the telephone toll services provider of their choice through the use of carrier identification codes. The Commission rules will supersede the equal access, balloting and prescription requirements imposed by the MFJ and the AT&T-McCaw consent decree. The Commission may exempt carriers or classes of carriers from the requirements of this section if it is consistent with the public interest, convenience, and necessity, and the

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQJQ689 | |
| **Radio Service** | |
| WU - 700 MHz Upper Band (Block C) | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 09-11-2019 | 07-15-2020 | 06-13-2029 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| REA001 | C | 0 |

| Market Name |
|---|
| Northeast |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 06-13-2013 | 06-13-2019 | | |

**Waivers/Conditions:**

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select “License Search”. Follow the instructions on how to search for license information.





Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQJQ689 **File Number:** **Print Date:**

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

Reference Copy

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# Federal Communications Commission
## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: VERIZON WIRELESS OF THE EAST LP

ATTN: REGULATORY
VERIZON WIRELESS OF THE EAST LP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| KNKA416 | |
| **Radio Service** CL - Cellular | |
| **Market Numer** CMA151 | **Channel Block** B |
| **Sub-Market Designator** 0 | |

**FCC Registration Number (FRN):** 0007609324

**Market Name**
Poughkeepsie, NY

| Grant Date | Effective Date | Expiration Date | Five Yr Build-Out Date | Print Date |
|---|---|---|---|---|
| 12-19-2017 | 01-09-2020 | 01-22-2028 | | 01-10-2020 |

**Site Information:**

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 1 | 41-31-43.0 N | 073-46-04.0 W | 352.3 | 43.9 | 1009727 |

**Address:** 1000' NE OF THE END OF WOODMONT ROAD
**City:** EAST FISHKILL **County:** DUTCHESS **State:** NY **Construction Deadline:**

**Antenna: 4**
**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 269.700 | 207.900 | 153.000 | 160.600 | 158.100 | 101.400 | 300.200 | 315.600 |
| **Transmitting ERP (watts)** | 47.860 | 28.840 | 3.310 | 0.200 | 0.200 | 0.200 | 0.390 | 7.240 |

**Antenna: 5**
**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 269.700 | 207.900 | 153.000 | 160.600 | 158.100 | 101.400 | 300.200 | 315.600 |
| **Transmitting ERP (watts)** | 0.200 | 0.200 | 8.710 | 30.900 | 14.450 | 0.470 | 0.200 | 0.200 |

**Antenna: 6**
**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 269.700 | 207.900 | 153.000 | 160.600 | 158.100 | 101.400 | 300.200 | 315.600 |
| **Transmitting ERP (watts)** | 0.200 | 0.200 | 0.200 | 0.200 | 0.580 | 18.200 | 4.900 | 0.370 |

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.



**FCC 601-C**
**March 2018**

**Licensee Name:** VERIZON WIRELESS OF THE EAST LP

**Call Sign:** KNKA416 **File Number:** **Print Date:** 01-10-2020

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 2 | 41-29-19.0 N | 073-56-50.0 W | 435.9 | 96.0 | 1013991 |

**Address:** MOUNT BEACON

**City:** BEACON **County:** DUTCHESS **State:** NY **Construction Deadline:**

**Antenna: 3**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 407.300 | 356.500 | 192.800 | 232.600 | 349.200 | 347.500 | 361.200 | 344.600 |
| **Transmitting ERP (watts)** | 4.450 | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 | 9.110 | 76.990 |

**Antenna: 4**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 407.300 | 356.500 | 192.800 | 232.600 | 349.200 | 347.500 | 361.200 | 344.600 |
| **Transmitting ERP (watts)** | 0.230 | 0.560 | 0.200 | 0.200 | 0.200 | 0.200 | 0.240 | 0.200 |

**Antenna: 5**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 407.300 | 356.500 | 192.800 | 232.600 | 349.200 | 347.500 | 361.200 | 344.600 |
| **Transmitting ERP (watts)** | 0.200 | 0.200 | 0.200 | 0.200 | 2.750 | 11.020 | 4.170 | 0.200 |

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 3 | 41-31-18.0 N | 073-38-04.0 W | 328.5 | 86.2 | 1002869 |

**Address:** (Pawling site) 1 MI E RT 292 HARMONY HILL

**City:** PAWLING **County:** DUTCHESS **State:** NY **Construction Deadline:**

**Antenna: 2**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 82.500 | 156.500 | 156.400 | 219.600 | 224.500 | 169.600 | 178.500 | 216.700 |
| **Transmitting ERP (watts)** | 475.940 | 314.450 | 12.520 | 0.990 | 0.990 | 0.990 | 0.990 | 134.140 |

**Antenna: 3**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 82.500 | 156.500 | 156.400 | 219.600 | 224.500 | 169.600 | 178.500 | 216.700 |
| **Transmitting ERP (watts)** | 0.990 | 2.040 | 0.990 | 2.320 | 1.170 | 0.990 | 0.990 | 0.990 |

**Antenna: 4**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 82.500 | 156.500 | 156.400 | 219.600 | 224.500 | 169.600 | 178.500 | 216.700 |
| **Transmitting ERP (watts)** | 0.990 | 0.990 | 0.990 | 0.990 | 3.660 | 1.310 | 1.030 | 4.230 |

Reference Copy

**Licensee Name:** VERIZON WIRELESS OF THE EAST LP

**Call Sign:** KNKA416 **File Number:** **Print Date:** 01-10-2020

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 4 | 41-43-10.1 N | 073-59-43.3 W | 337.7 | 94.5 | 1007753 |

**Address:** ATOP ILLINOIS MOUNTAIN LLOYD (010329)

**City:** Highland **County:** ULSTER **State:** NY **Construction Deadline:**

**Antenna: 2**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 278.100 | 334.300 | 350.300 | 360.800 | 284.400 | 236.800 | 318.900 | 317.000 |
| **Transmitting ERP (watts)** | 0.200 | 0.200 | 0.200 | 1.410 | 9.980 | 6.380 | 0.300 | 0.200 |

**Antenna: 3**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 278.100 | 334.300 | 350.300 | 360.800 | 284.400 | 236.800 | 318.900 | 317.000 |
| **Transmitting ERP (watts)** | 3.260 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 3.580 | 11.220 |

**Antenna: 4**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 278.100 | 334.300 | 350.300 | 360.800 | 284.400 | 236.800 | 318.900 | 317.000 |
| **Transmitting ERP (watts)** | 0.200 | 0.350 | 0.640 | 0.200 | 0.200 | 0.200 | 0.200 | 0.250 |

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 5 | 41-57-03.7 N | 073-48-18.0 W | 226.8 | 44.5 | |

**Address:** (Milan site) 616 SALISBURY TURNPIKE

**City:** MILAN **County:** DUTCHESS **State:** NY **Construction Deadline:**

**Antenna: 5**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 166.800 | 84.300 | 70.400 | 89.400 | 130.700 | 170.400 | 204.900 | 216.900 |
| **Transmitting ERP (watts)** | 80.690 | 84.600 | 72.710 | 10.310 | 0.980 | 0.980 | 0.980 | 19.790 |

**Antenna: 6**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 166.800 | 84.300 | 70.400 | 86.700 | 130.700 | 170.400 | 204.900 | 216.900 |
| **Transmitting ERP (watts)** | 0.980 | 5.530 | 87.520 | 360.780 | 269.880 | 38.620 | 1.270 | 0.980 |

**Antenna: 7**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 166.800 | 84.300 | 70.400 | 86.700 | 130.700 | 170.400 | 204.900 | 216.900 |
| **Transmitting ERP (watts)** | 28.320 | 0.980 | 0.980 | 0.980 | 7.870 | 112.660 | 375.560 | 238.530 |

Reference Copy

**Licensee Name:** VERIZON WIRELESS OF THE EAST LP

**Call Sign:** KNKA416 **File Number:** **Print Date:** 01-10-2020

| Location | Latitude | Longitude | Ground Elevation (meters) | Structure Hgt to Tip (meters) | Antenna Structure Registration No. |
|---|---|---|---|---|---|
| 6 | 41-55-02.3 N | 073-34-16.5 W | 413.6 | 57.9 | |

**Address:** SMITHFIELD ROAD

**City:** NORTHEAST **County:** DUTCHESS **State:** NY **Construction Deadline:**

**Antenna: 2**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 240.100 | 113.100 | 226.000 | 214.600 | 185.500 | 203.500 | 260.800 | 294.100 |
| **Transmitting ERP (watts)** | 12.400 | 9.700 | 12.200 | 21.700 | 29.800 | 33.800 | 32.000 | 22.100 |

**Antenna: 3**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 240.100 | 113.100 | 226.000 | 214.600 | 185.500 | 203.500 | 260.800 | 294.100 |
| **Transmitting ERP (watts)** | 35.100 | 21.700 | 16.300 | 11.900 | 11.400 | 13.400 | 27.000 | 36.900 |

**Antenna: 4**

**Maximum Transmitting ERP in Watts:** 140.820

| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
|---|---|---|---|---|---|---|---|---|
| **Antenna Height AAT (meters)** | 240.100 | 113.100 | 226.000 | 214.600 | 185.500 | 203.500 | 260.800 | 294.100 |
| **Transmitting ERP (watts)** | 2.010 | 17.110 | 10.250 | 13.920 | 9.290 | 0.200 | 0.200 | 0.200 |

**Control Points:**

**Control Pt. No. 3**

**Address:** 500 W. Dove Road

**City:** Southlake **County:** TARRANT **State:** TX **Telephone Number:** (800)264-6620

**Waivers/Conditions:**

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQGA906 | 0009773259 |
| **Radio Service** | |
| AW - AWS (1710-1755 MHz and 2110-2155 MHz) | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 12-21-2021 | 12-21-2021 | 11-29-2036 | 12-21-2021 |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| BEA010 | B | 15 |

| Market Name |
|---|
| New York-No. New Jer.-Long Isl |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| | | | |

**Waivers/Conditions:**

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select “License Search”. Follow the instructions on how to search for license information.



**FCC 601-MB**
**August 2021**

Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA906 **File Number:** 0009773259 **Print Date:** 12-21-2021

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQWY360 | 0009762590 |
| **Radio Service** | |
| AW - AWS (1710-1755 MHz and 2110-2155 MHz) | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 02-09-2022 | 02-09-2022 | 11-29-2036 | 02-10-2022 |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| REA001 | D | 2 |

| Market Name |
|---|
| Northeast |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| | | | |

**Waivers/Conditions:**

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQWY360 **File Number:** 0009762590 **Print Date:** 02-10-2022

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQWY361 | 0009762572 |
| **Radio Service** | |
| AW - AWS (1710-1755 MHz and 2110-2155 MHz) | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 02-09-2022 | 02-09-2022 | 11-29-2036 | 02-10-2022 |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| BEA010 | C | 16 |

| Market Name |
|---|
| New York-No. New Jer.-Long Isl |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| | | | |

**Waivers/Conditions:**

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQWY361 **File Number:** 0009762572 **Print Date:** 02-10-2022

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WRNE581 | |
| **Radio Service** PM - 3.7 GHz Service | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 07-23-2021 | 07-23-2021 | 07-23-2036 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| PEA001 | A1 | 0 |

| Market Name |
|---|
| New York, NY |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 07-23-2029 | 07-23-2033 | | |

**Waivers/Conditions:**

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRNE581 **File Number:** **Print Date:**

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WRNE582 | |
| **Radio Service** PM - 3.7 GHz Service | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 07-23-2021 | 07-23-2021 | 07-23-2036 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| PEA001 | A2 | 0 |

| Market Name |
|---|
| New York, NY |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 07-23-2029 | 07-23-2033 | | |

**Waivers/Conditions:**

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRNE582 **File Number:** **Print Date:**

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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## Wireless Telecommunications Bureau

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LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WRNE583 | |
| **Radio Service** | |
| PM - 3.7 GHz Service | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 07-23-2021 | 07-23-2021 | 07-23-2036 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| PEA001 | A3 | 0 |

| Market Name |
|---|
| New York, NY |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 07-23-2029 | 07-23-2033 | | |

**Waivers/Conditions:**

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

**Conditions:**
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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRNE583 **File Number:** **Print Date:**

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQDU938 | |
| **Radio Service** | |
| CW - PCS Broadband | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 10-08-2015 | 02-16-2017 | 11-04-2025 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| BTA361 | C | 3 |

| Market Name |
|---|
| Poughkeepsie-Kingston, NY |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 11-04-2010 | | | |

**Waivers/Conditions:**

NONE

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQDU938 **File Number:** **Print Date:**

**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

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# Federal Communications Commission

## Wireless Telecommunications Bureau

## RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

| Call Sign | File Number |
|---|---|
| WQEM958 | |
| **Radio Service** | |
| CW - PCS Broadband | |

**FCC Registration Number (FRN):** 0003290673

| Grant Date | Effective Date | Expiration Date | Print Date |
|---|---|---|---|
| 03-14-2016 | 11-01-2016 | 03-08-2026 | |

| Market Number | Channel Block | Sub-Market Designator |
|---|---|---|
| BTA361 | C | 5 |

| Market Name |
|---|
| Poughkeepsie-Kingston, NY |

| 1st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |
|---|---|---|---|
| 03-08-2011 | | | |

**Waivers/Conditions:**

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

**Conditions:**
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.



**FCC 601-MB**
**August 2021**

Reference Copy

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQEM958 **File Number:** **Print Date:**

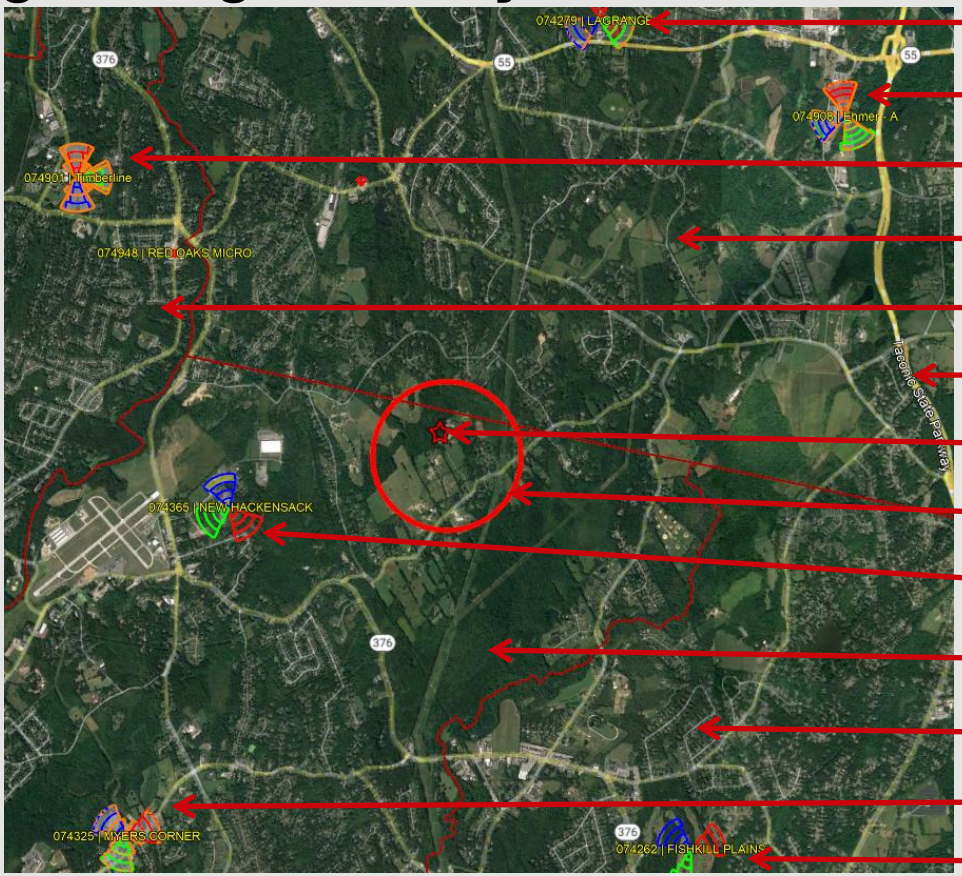
**700 MHz Relicensed Area Information:**

| Market | Market Name | Buildout Deadline | Buildout Notification | Status |
|---|---|---|---|---|

Reference Copy

# Verizon Wireless Communications Facility

## Engineering Necessity Case – "Diddell Rd"




La Grange Site

Ehmer site

Timberline Site

Town of La Grange

Town of Poughkeepsie

Taconic State Parkway

Project location (Diddell Rd)

Diddell Rd Search Area

New Hackensack Site

Town of Wappinger

Town of East Fishkill

MYERS CORNER Site

FISHKILL PLAINS Site

**Prepared by: Wasif Sharif**

**Project: The project is the installation and operation of a new co-located wireless telecommunications site in the Town of Wappinger (the "Project Facility").**

verizon

Jan 23rd, 2023

# Introduction

The purpose of this subsequent analysis is to summarize and communicate the technical radio frequency (RF) information used in the justification of this new site.

Coverage and/or capacity deficiencies are the two main drivers that prompt the need for a new wireless communications facility/site. All sites provide a mixture of both capacity and coverage for the benefit of the end user.

**Coverage** can be defined as the existence of signal of usable strength and quality in an area, including but not limited to in-vehicles or in-buildings.

The need for improved coverage is identified by RF Engineers that are responsible for developing and maintaining the network. RF Engineers utilize both theoretical and empirical data sets (propagation maps and real world coverage measurements). Historically, coverage improvements have been the primary justification of new sites.

**Capacity** can be defined as the amount of traffic (voice and data) a given site can process before significant performance degradation occurs.

When traffic volume exceeds the capacity limits of a site serving a given area, network reliability and user experience degrades. Ultimately this prevents customers from making/receiving calls, applications cease functioning, internet connections time out and data speeds fail. This critical condition is more important than just a simple nuisance for some users. Degradation of network reliability and user experience can affect emergency responders and to persons in a real emergency situation can literally mean life or death.

# Project Need Overview

The project area, located in the northern portion of the Town of Wappinger is currently served by two sites. These sites are overloaded requiring capacity relief. Additionally the project area is subject to significant terrain challenges for RF (signal) propagation. This terrain combined with area foliage and long distance prevent effective propagation of Verizon's RF signals into this area compounding the capacity issue with areas of variable coverage creating significant gaps in coverage.

The first serving site is **New Hackensack,** located in the town of Wappinger, is approximately 1.5 miles southwest (of the project location) situated on an existing tower located off **Airport Dr**. While this site provides weak/variable coverage in portions of the project area, it does so from a terrain and distance challenged position making the site not capable of efficiently or effectively providing adequate coverage or capacity.

The second serving site is **Ehmer,** located in the Town of **La Grange**, is approximately three miles northeast (of the project location) situated on an existing tower located off **Stringham Road**. While this site provides weak/variable coverage in portions of the project area, it does so from a terrain and distance challenged position making the site not capable of efficiently or effectively providing adequate coverage or capacity.

Available (mid band AWS) carriers at these and other area sites are not capable of effectively serving/offloading the project area due to inherent propagation losses from distance, challenging terrain and in building coverage losses negatively impacting mid band coverage and capacity offload capabilities. There are other Verizon sites in this general area but due to distance and terrain they also do not provide any significant overlapping coverage in the area in question that could allow for increased capacity and improved coverage from other sources.

The primary objectives for this project are to increase capacity and improve coverage throughout the north eastern portion of the Town of Wappinger and Southwestern part of the Town of La Grange, more specifically portions of Diddell Road, Smith Crossing Road, Maloney Road, Orange Hill Road, and Redhawk Hollow Road, as well neighboring residential areas along and near these roads. In order to offload capacity from Ehmer and New Hackensack sites, a new dominant server must be created. This new dominant coverage will effectively offload the existing overloaded sites/cells as well as provide improved coverage where significant gaps exist today.

Following the search for co-locatable structures to resolve the aforementioned challenges and finding none available, Verizon proposes to attach the necessary antenna(s) to a new 120' monopole tower to be located at **Diddell Rd**, Wappinger, NY. Verizon's antennas will utilize 116' for the ACL (Antenna Center Line) with a top of antenna height of 120'. This solution will provide the necessary coverage and capacity improvements needed.

# Wireless LTE (Voice and Data) Growth

- Wireless smart city solutions are being used to track available parking and minimize pollution and wasted time.
- These same solutions are being used to track pedestrian and bike traffic to help planning and minimize accidents.
- Smart, wireless connected lighting enables cities to control lighting remotely, saving energy and reducing energy costs by 20%.
- 4G technology is utilized to track and plan vehicle deliveries to minimize travel, maximize efficiency, and minimize carbon footprint.
- 4G technology is also used to monitor building power usage down to the circuit level remotely, preventing energy waste and supporting predictive maintenance on machines and equipment.
- Wireless sensors placed in shipments are being used to track temperature-sensitive medications, equipment, and food. This is important for preventing the spread of food-borne diseases that kill 3,000 Americans each year.

Source: Verizon Innovation Center, February. 2018

Wireless is a critical component in schools and for today's students.

- **20,000 learning apps are available for iPads. 72% of iTunes top selling educational apps are designed for preschoolers and elementary students.**
- **600+ school districts replaced text books with tablets in classrooms.**
- **77% of parents think tablets are beneficial to kids.**
- **74% of school administrators feel digital content increases student engagement.**
- **70% of teens use cellphones to help with homework.**

Source: CTIA's Infographics Today's Wireless Family, October, 2017

**The average North American smartphone user will consume 48 GB of data per month in 2023, up from just 5.2 GB per month in 2016 and 7.1 GB per month in 2017 .[1]**


**Of American homes are wireless only.[2]**

**In North America, the average household has 13 connected devices with smartphones outnumbering tablets 6 to 1.[3]**

1. Ericsson Mobility Report, November 2017
2. CDC's 2018 Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, January-July, 2018
3. IHS Market Connected Device Market Monitor: Q1 2016 , June 7, 2016

**A wireless network is like a highway system…**

US, mobile data traffic was 1.3 Exabytes per month in 2016, the equivalent of 334 million DVDs each month or 3,687 million text messages each second **according to** Cisco VNI Mobile Forecast Highlights, 2016-2021,Feb 2017

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## Wireless facilities and property values.

**Cell service in and around the home has emerged as a critical factor in home-buying decisions.**

National studies demonstrate that most home buyers value good cell service over many other factors including the proximity of schools when purchasing a home.


More than 75% of prospective home buyers said a good cellular connection was important to them.[1]


The same study showed that 83% of Millennials (those born between 1982 and 2004) said cell service was the most important fact in purchasing a home.


90% of U.S. households use wireless service. Citizens need access to 911 and reverse 911 and wireless may be their only connection.[2]

1. RootMetrics/Money, The Surprising Thing Home Buyers Care About More than Schools, June 2, 2015
2. CTIA, June 2015


With over 80% of 9-1-1 calls now coming from cell phones…[1]

**240 million**

911 calls are made annually. In many areas, 80% or more are from wireless devices. [1]

1. National Emergency Number Association, Enhancing 9-1-1 Operations With Automated Abandoned Callback & Location Accuracy (Motorola Solutions) (August 23, 2018)

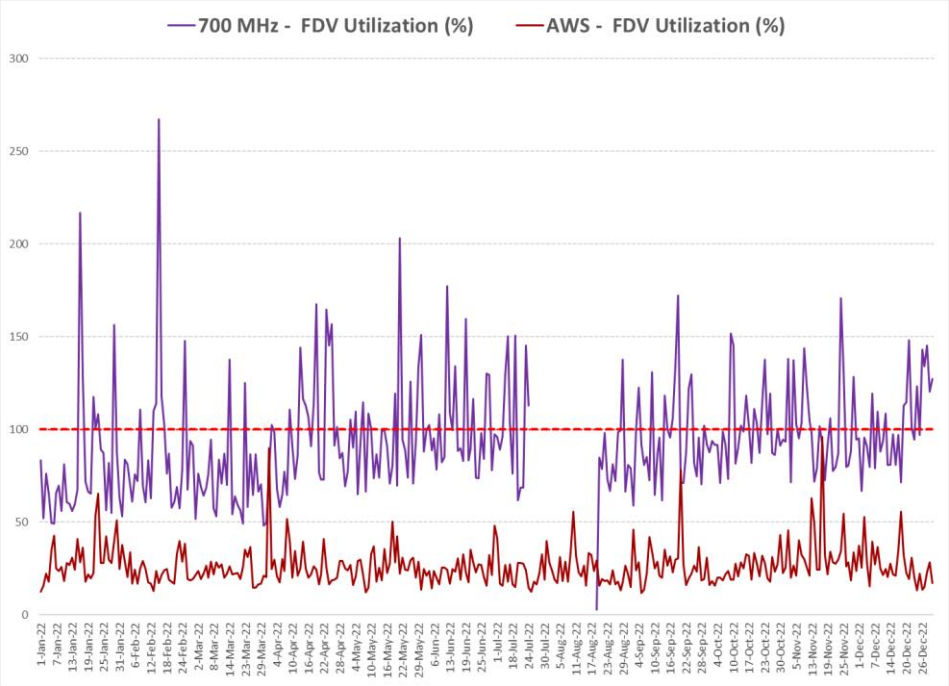
# Explanation of Wireless Capacity

**Capacity** in this analysis is evaluated with up to three metrics further explained below. These metrics assist in determining actual usage for a given site as well as are used to project when a site is expected to run out of capacity (i.e. reach a point of exhaustion where it can no longer process the volume of voice and data requested by local wireless devices, thus no longer providing adequate service).

- Forward Data Volume ("**FDV**"), is a measurement of usage (data throughput) on a particular site over a given period of time.
- Average Schedule Eligible User ("**ASEU**"), is a measurement of the loading of the control channels and systems of a given site.
- Average Active Connections ("**AvgAC**") is a measurement of the number of devices actively connected to a site in any given time slot.

Verizon Wireless uses proprietary algorithms developed by a task force of engineers and computer programmers to monitor each site in the network and accurately project and identify when sites will approach their capacity limits. Using a rolling two-year window for projected exhaustion dates allows enough time, in most cases, to develop and activate a new site. It is critical that these capacity approaching sectors are identified early and the process gets started and completed in time for new solutions (sites) to be on air before network issues impact the customers.

# Capacity Utilization
# FDV (New Hackensack Gamma)




**Summary**: This graph shows FDV (**F**orward **D**ata **V**olume) which is a measurement of the customer data usage that this sector currently serves. As this limit is approached, data rates slow to unacceptable levels, potentially causing unreliable service for Verizon Wireless customers.

The purple line represents the daily max busy hour 700MHz utilization and the dark red line is daily max busy hour AWS utilization on the **Gamma** sector of the **New Hackensack** site. The red dashed line is the limit where the sector reaches exhaustion and service starts to significantly degrade. The point in time where we see the purple or dark red lines reach or exceed the red dashed line is when service quickly degrades as usage continues to increase.

**Detail**: The existing **New Hackensack** sector shown above has exceeded its capability of supporting FDV requirements as shown by the purple line exceeding the max utilization threshold (red dashed line). FDV is one of up to three metrics used in this presentation to evaluate capacity capability in this area. This graph also reveals the inability of the AWS carrier (dark red line) to provide the necessary capacity offload for the low band carrier due to differences in RF propagation characteristics. The solution is network densification.

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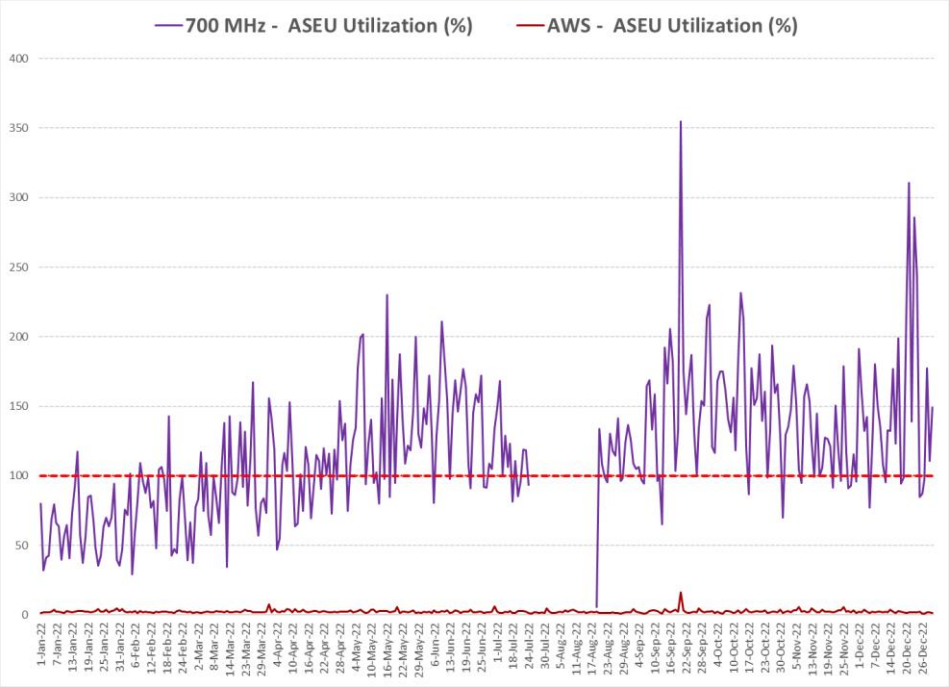
# Capacity Utilization
# ASEU (New Hackensack Gamma)




**Summary**: This graph shows ASEU (**A**verage **S**chedule **E**ligible **U**ser). ASEU is a measurement of the loading of the control channels and systems of a given site. The ASEU load is heavily impacted by distant users or those in poor RF conditions.

The purple line represents the daily max busy hour 700MHz utilization and the dark red line is daily max busy hour AWS utilization on the **Gamma** sector of the **New Hackensack** site. The red dashed line is the limit where the sector reaches exhaustion and service starts to significantly degrade. The point in time where we see the purple or dark red lines reach or exceed the red dashed line is when service quickly degrades as usage continues to increase.

**Detail**: The existing **New Hackensack** sector shown above has exceeded its capability of supporting ASEU requirements as shown by the purple line exceeding the max utilization threshold (red dashed line). This graph also reveals the inability of the AWS carrier (dark red line) to provide the necessary capacity offload for the low band carrier due to differences in RF propagation characteristics. The solution is network densification.

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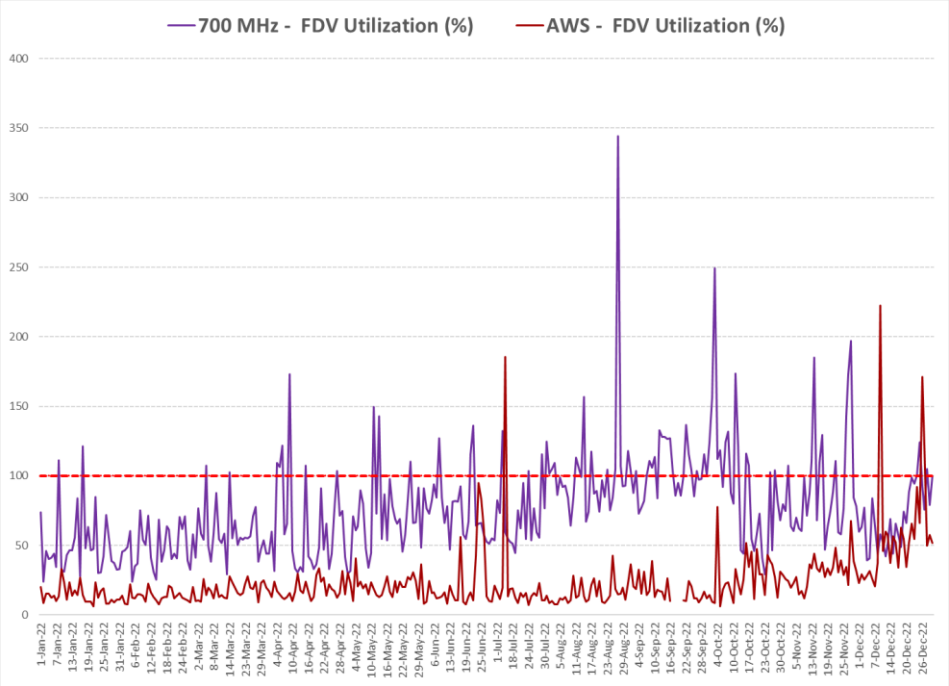
# Capacity Utilization
# FDV (Ehmer Gamma)




**Summary**: This graph shows FDV (**F**orward **D**ata **V**olume) which is a measurement of the customer data usage that this sector currently serves. As this limit is approached, data rates slow to unacceptable levels, potentially causing unreliable service for Verizon Wireless customers.

The purple line represents the daily max busy hour 700MHz utilization and the dark red line is daily max busy hour AWS utilization on the **Gamma** sector of the **Ehmer** site. The red dashed line is the limit where the sector reaches exhaustion and service starts to significantly degrade. The point in time where we see the purple or dark red lines reach or exceed the red dashed line is when service quickly degrades as usage continues to increase.

**Detail**: The existing **Ehmer** sector shown above has exceeded its capability of supporting FDV requirements as shown by the purple and dark red lines exceeding the max utilization threshold (red dashed line). FDV is one of up to three metrics used in this presentation to evaluate capacity capability in this area.

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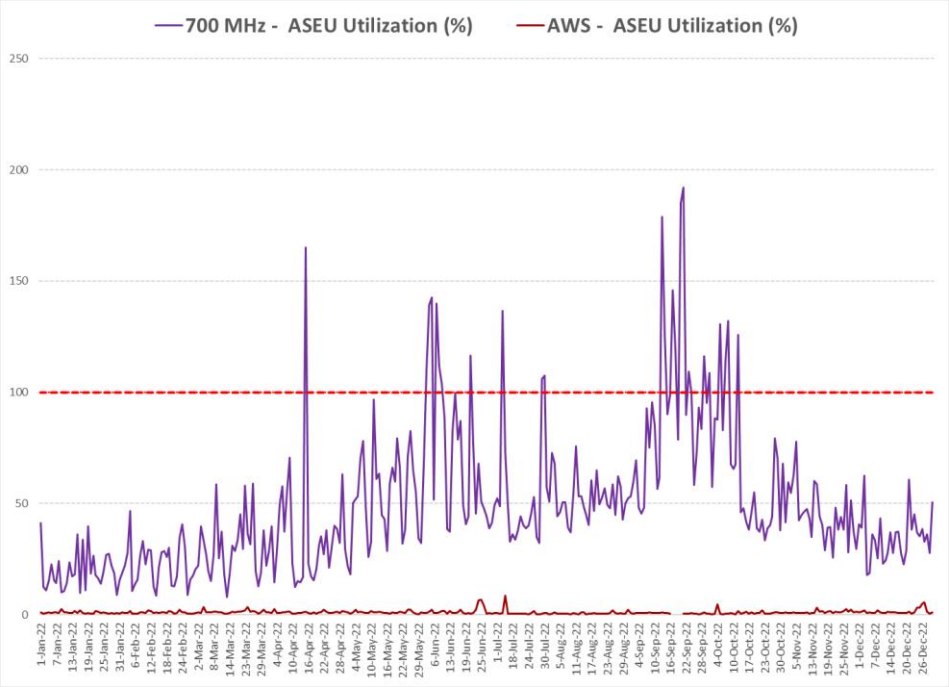
# Capacity Utilization
# ASEU (Ehmer Gamma)




**Summary**: This graph shows ASEU (**A**verage **S**chedule **E**ligible **U**ser). ASEU is a measurement of the loading of the control channels and systems of a given site. The ASEU load is heavily impacted by distant users or those in poor RF conditions.

The purple line represents the daily max busy hour 700MHz utilization and the dark red line is daily max busy hour AWS utilization on the **Gamma** sector of the **Ehmer** site. The red dashed line is the limit where the sector reaches exhaustion and service starts to significantly degrade. The point in time where we see the purple or dark red lines reach or exceed the red dashed line is when service quickly degrades as usage continues to increase.

**Detail**: The existing **Ehmer** sector shown above has exceeded its capability of supporting ASEU requirements as shown by the purple line exceeding the max utilization threshold (red dashed line). This graph also reveals the inability of the AWS carrier (dark red line) to provide the necessary capacity offload for the low band carrier due to differences in RF propagation characteristics. The solution is network densification.

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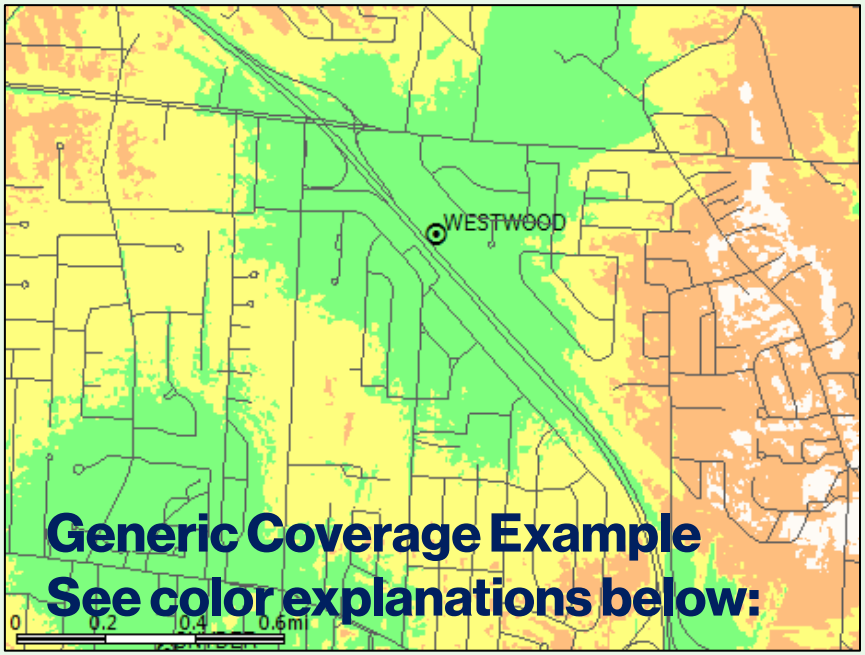
# Explanation of Wireless Coverage




**Coverage** is best shown via coverage maps. RF engineers use computer simulation tools that take into account terrain, vegetation, building types, and site specifics to model the RF environment. This model is used to simulate the real world network and assist engineers to evaluate the impact of a proposed site (along with industry experience and other tools).

Many Verizon Wireless sites provide 4G LTE at 700 MHz and 850 MHz . As capacity requirements increase, higher frequency PCS (1900 MHz) and AWS (2100 MHz) carriers are added. In some mountaintop situations the mid band (higher frequency) AWS and PCS carriers are not fully effective due to excessive distance from the user population.

Coverage provided by a given site is affected by the frequencies used. Lower frequencies propagate further distances, and are less attenuated by clutter than higher frequencies. To provide similar coverage levels at higher frequencies, a denser network of sites is required (network densification).

Note the affect of clutter on the predicted coverage footprint above

**Dark Green >/= -75dBm RSRP, typically serves dense urban areas as well as areas of substantial construction (colleges, hospitals, dense multi family etc.)
Green >/= -85dBm RSRP, typically serves suburban single family residential and light commercial buildings
Yellow >/= -95dBm RSRP, typically serves most rural/suburban-residential and in car applications
Orange >/= -105dBm RSRP, rural highway coverage, subject to variable conditions including fading and seasonality gaps
White = <-105dBm RSRP, variable to no reliable coverage gap area

More detailed, site-specific coverage slides are later in the presentation
*Signal strength requirements vary as dictated by specific market conditions
** Not displayed in example map, layer not used in all site justifications

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# Explanation of this Search Area

Diddell Rd Search Area

A **Search Area** is the geographical area within which a new site is targeted to solve a coverage or capacity deficiency. Three of the factors taken into consideration when defining a search area are topography, user density, and the existing network.

- **Topography** must be considered to minimize the obstacles between the proposed site and the target coverage area. For example, a site at the bottom of a ridge will not be able to cover the other side from a certain height.
- In general, the farther from a site the **User Population** is, the weaker the RF conditions are and the worse their experience is likely to be. These distant users also have an increased impact on the serving site's capacity. In the case of a multi sector site, centralized proximity is essential to allow users to be evenly distributed and allow efficient utilization of the site's resources.
- The existing **Network Conditions** also guide the design of a new site. Sites placed too close together create interference due to overlap and are an inefficient use of resources. Sites that are too tall or not properly integrated with existing sites cause interference and degrade service for existing users.
- Existing co-locatable structures inside the search area as well as within a reasonable distance of the search area are submitted by site acquisition and reviewed by RF Engineering. If possible, RF will make use of existing or nearby structures before proposing to build new towers.

To resolve the coverage and capacity deficiencies previously detailed, Verizon Wireless is seeking to add one new cell facility within this area to improve wireless service capacity and coverage. By offloading traffic from **New Hackensack** and **Ehmer** with the proposed site, adequate and reliable service will be restored. The new **Diddell Rd** site will provide dominant and dedicated signal to the identified portions of the Town of Wappinger and Town of La Grange . This helps to improve not only the **Diddell Rd** project area but will also indirectly result with significant improvements in the northern portion of the Town of Wappinger and southwestern portion of Town of La Grange.

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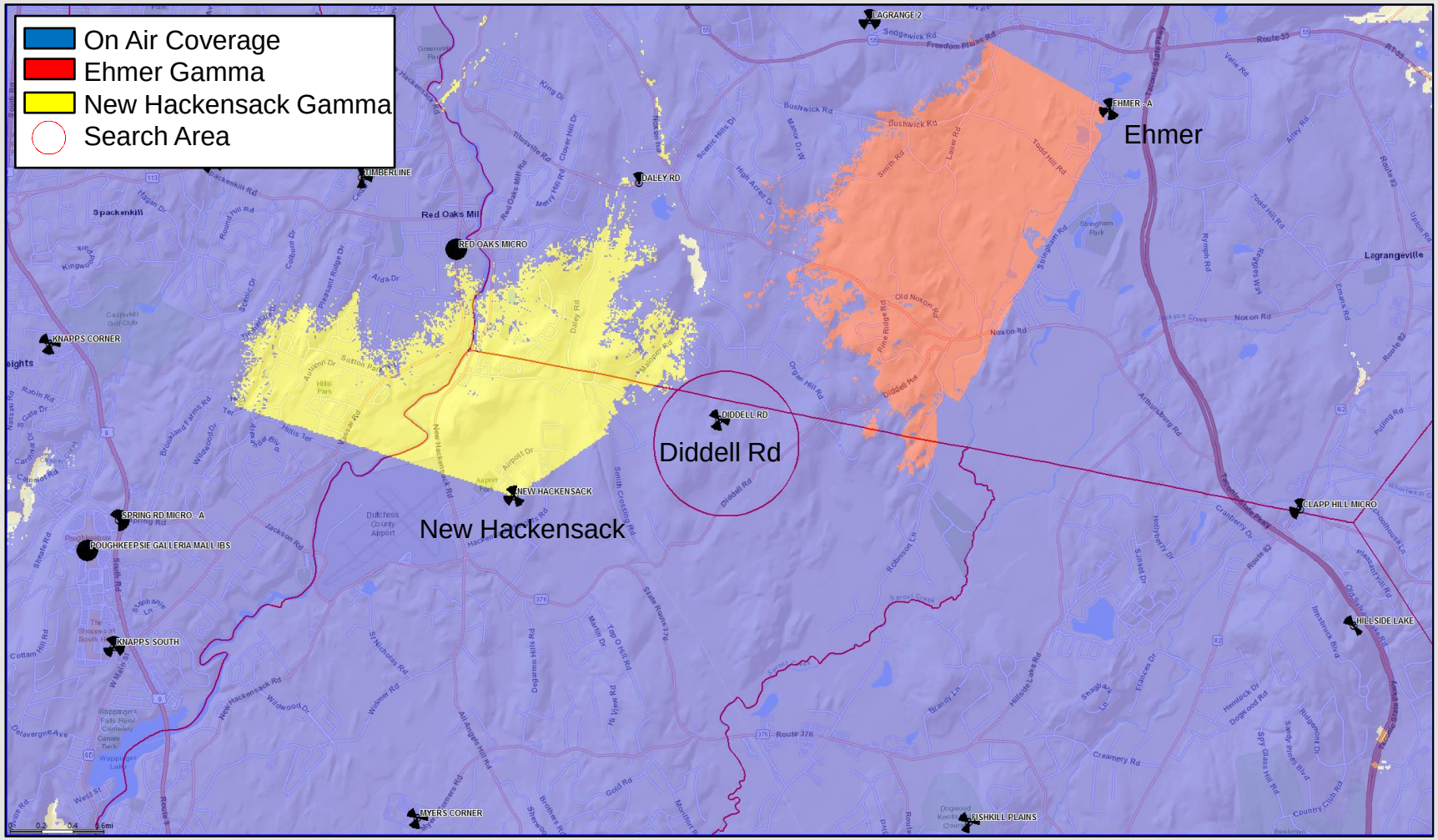
# Existing 700MHz Best Server -105dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the area offloaded by the new sites dominant signal area.




The map above represents existing low band coverage from existing sites, with the sites in need of capacity offload detailed in the legend above. Blue coverage is from other on air sites.

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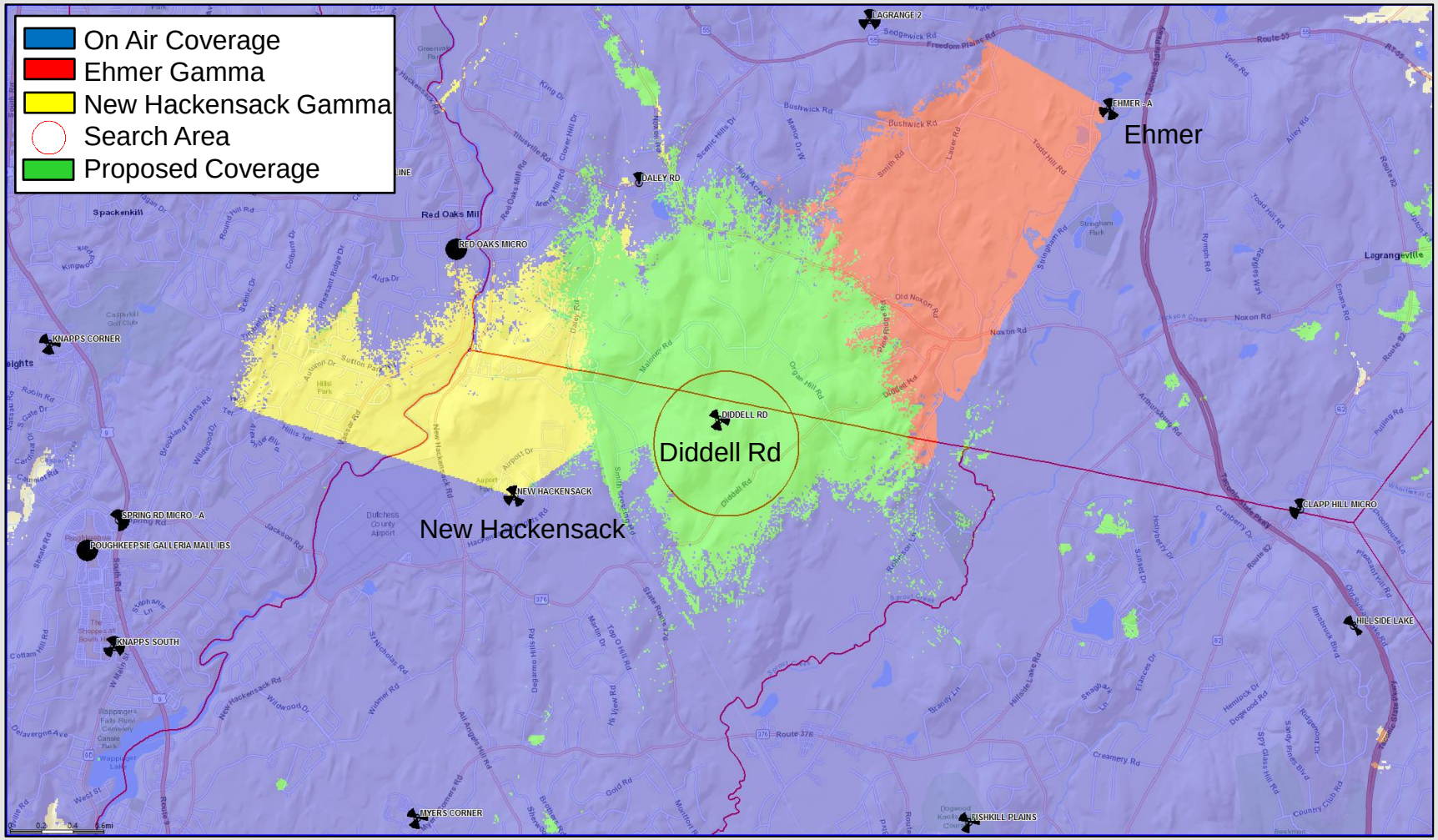
# Proposed 700MHz Best Server -105dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the area offloaded by the new sites dominant signal area (at 116' ACL).




The map above adds the low band footprint of the proposed Diddell Rd site in green. The green best server footprint provides improved coverage and capacity throughout the identified significant gap area. This will help to resolve the coverage and capacity issues impacting the Ehmer Gamma and New Hackensack Gamma sectors.

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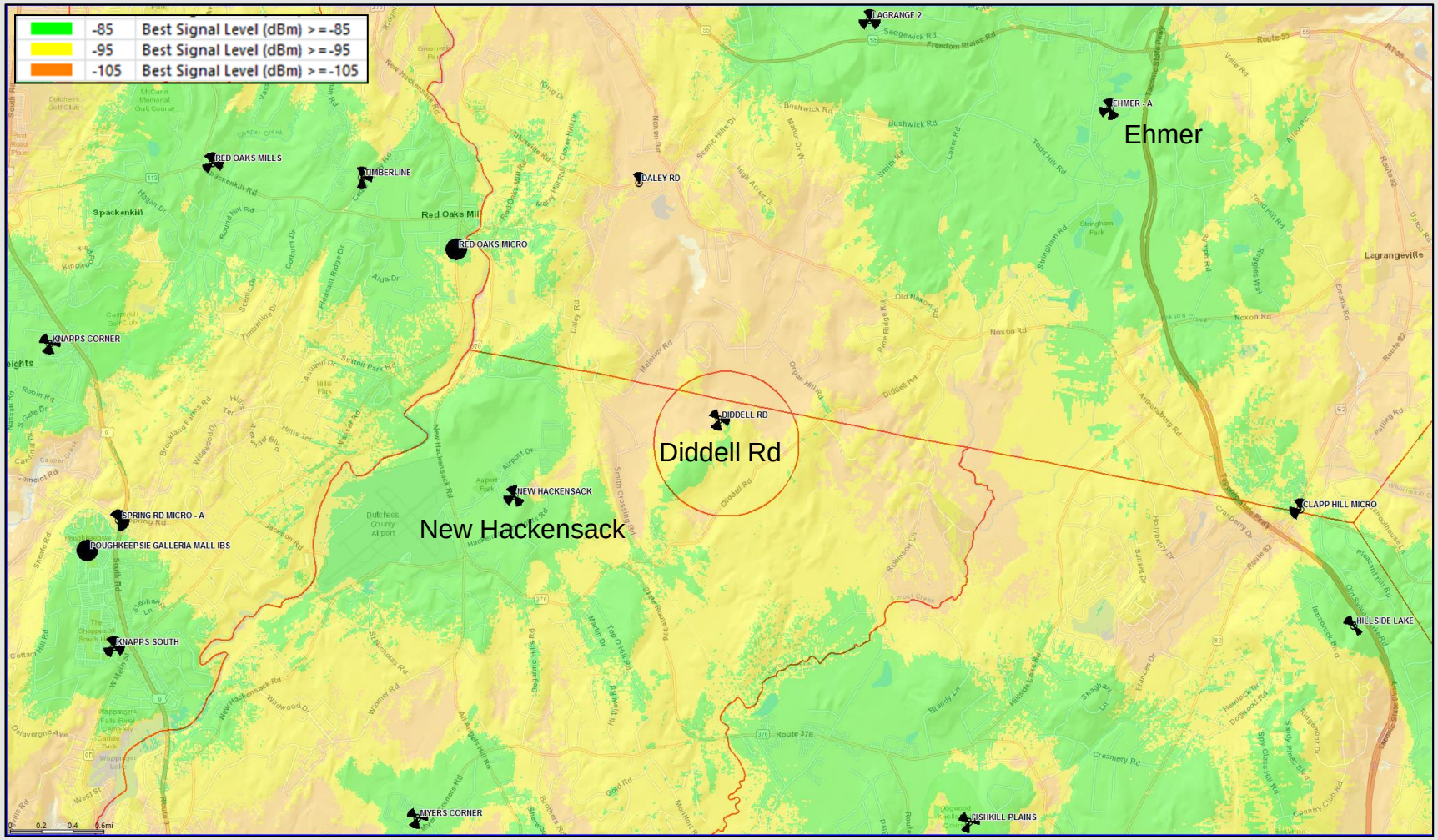
# Existing 700MHz Coverage

This coverage map shows how weak the RF conditions are in and around the Diddell Rd site area.
*Refer to slide 10 for further explanation of these color thresholds*




The map above represents existing low band signal strength coverage from existing sites.

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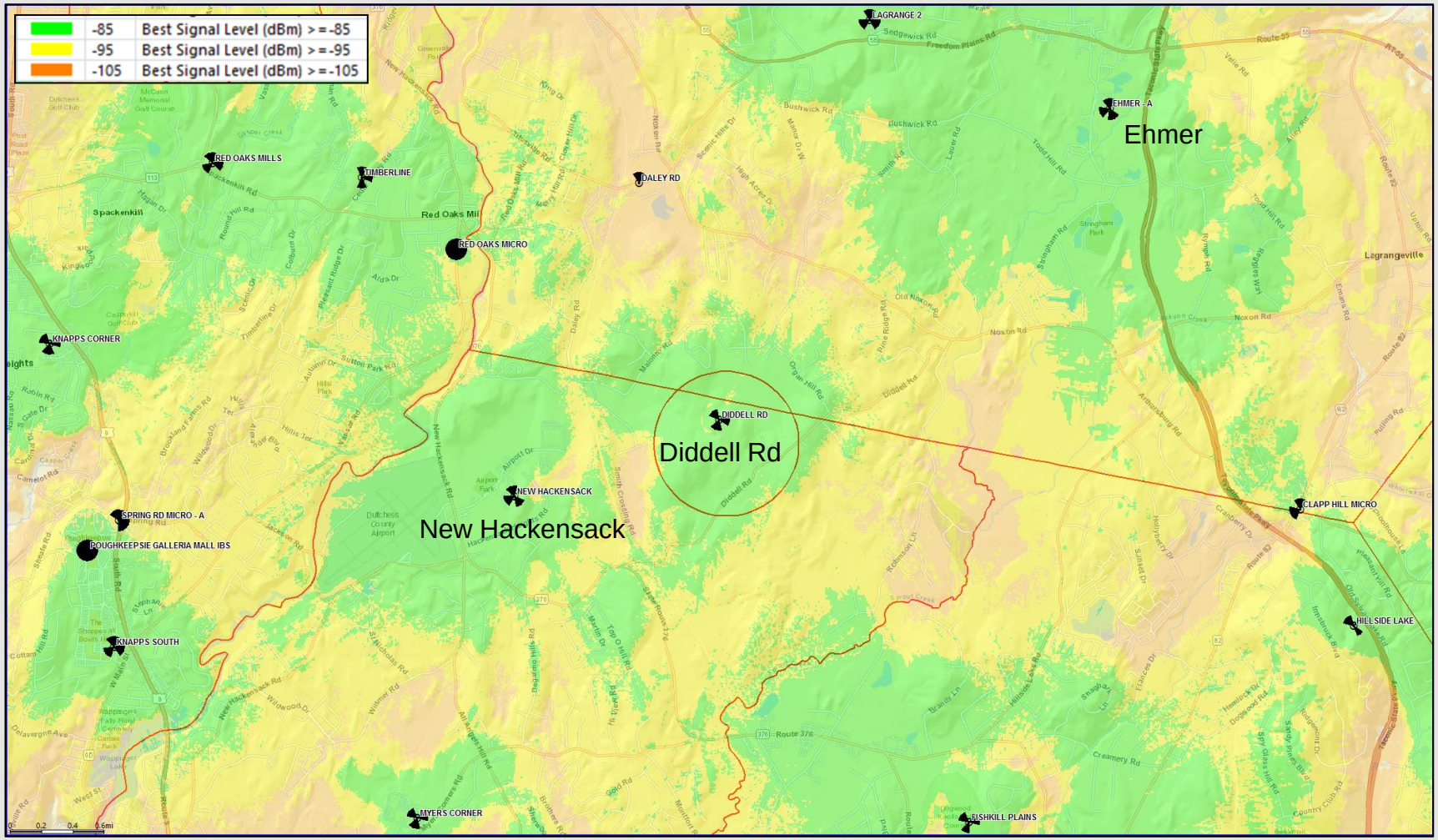
# Proposed 700MHz Coverage

This coverage map shows how improved the RF conditions will be in and around the Diddell Rd site area (at 116' ACL).
*Refer to slide 10 for further explanation of these color thresholds*




The map above adds the low band footprint of the proposed Diddell Rd site. The significantly improved signal strength corresponds to improved coverage and capacity throughout the identified significant gap area. This will help to resolve the coverage and capacity issues impacting the Ehmer Gamma, and New Hackensack Gamma sectors.

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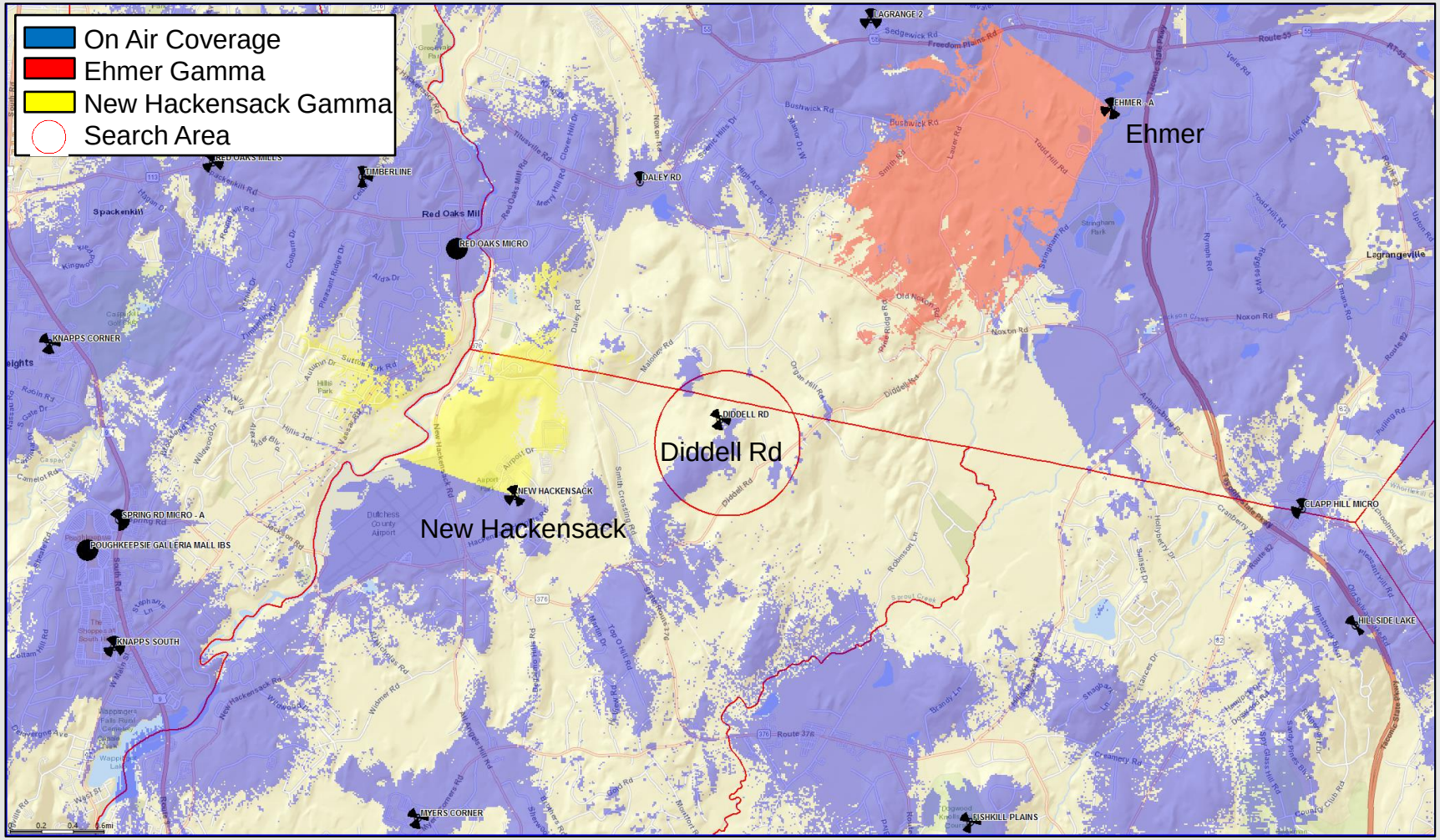
# Existing 2100MHz Best Server -105dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the area offloaded by the new sites dominant signal area.




The map above represents mid band coverage from existing sites, with the sites in need of capacity offload detailed in the legend above. Blue coverage is from other on air sites.

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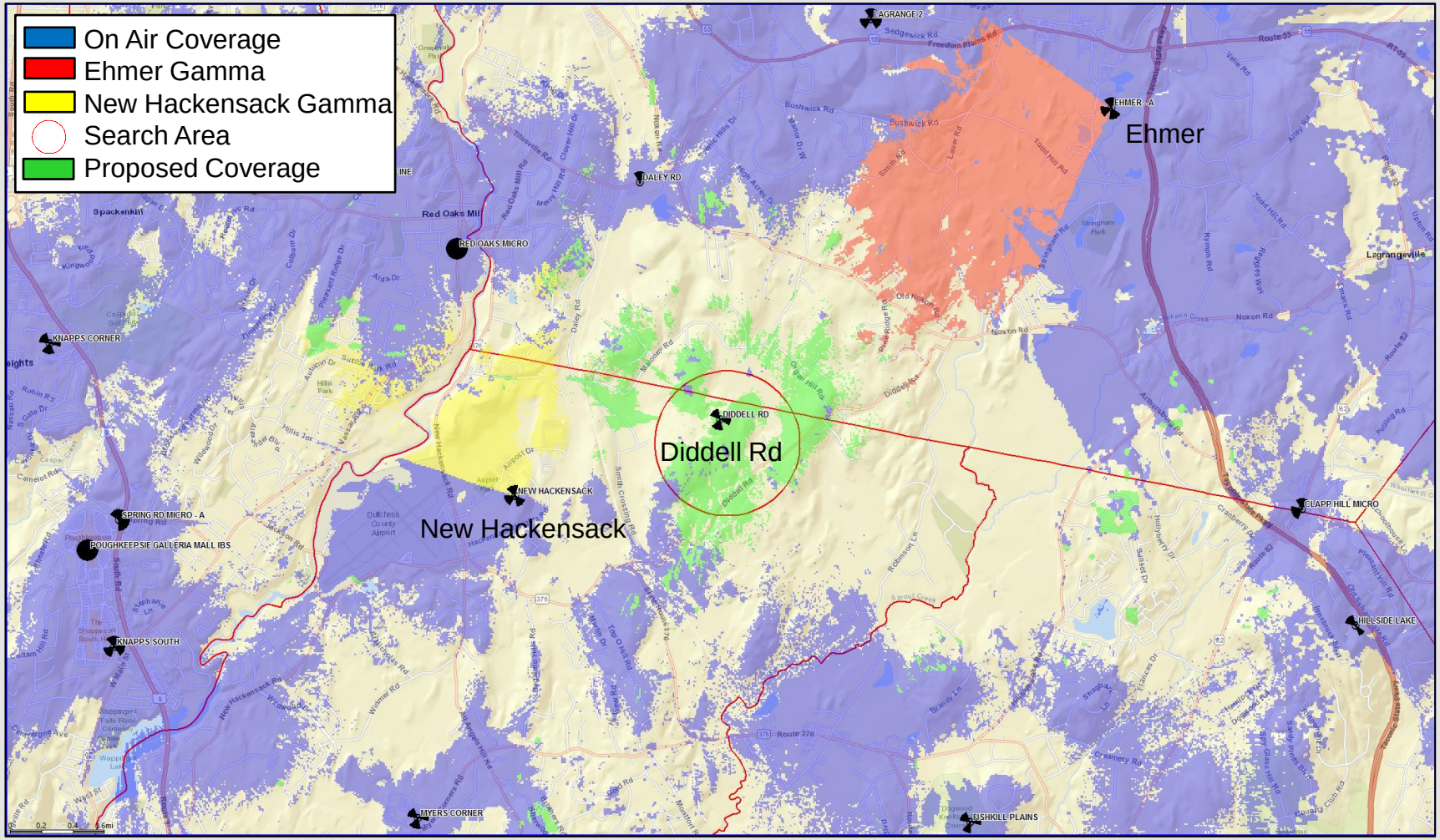
# Proposed 2100MHz Best Server -105dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the area offloaded by the new sites dominant signal area (at 116' ACL).




The map above adds the mid band footprint of the proposed Diddell Rd site in green. The green best server footprint provides improved coverage and capacity throughout the identified significant gap area.

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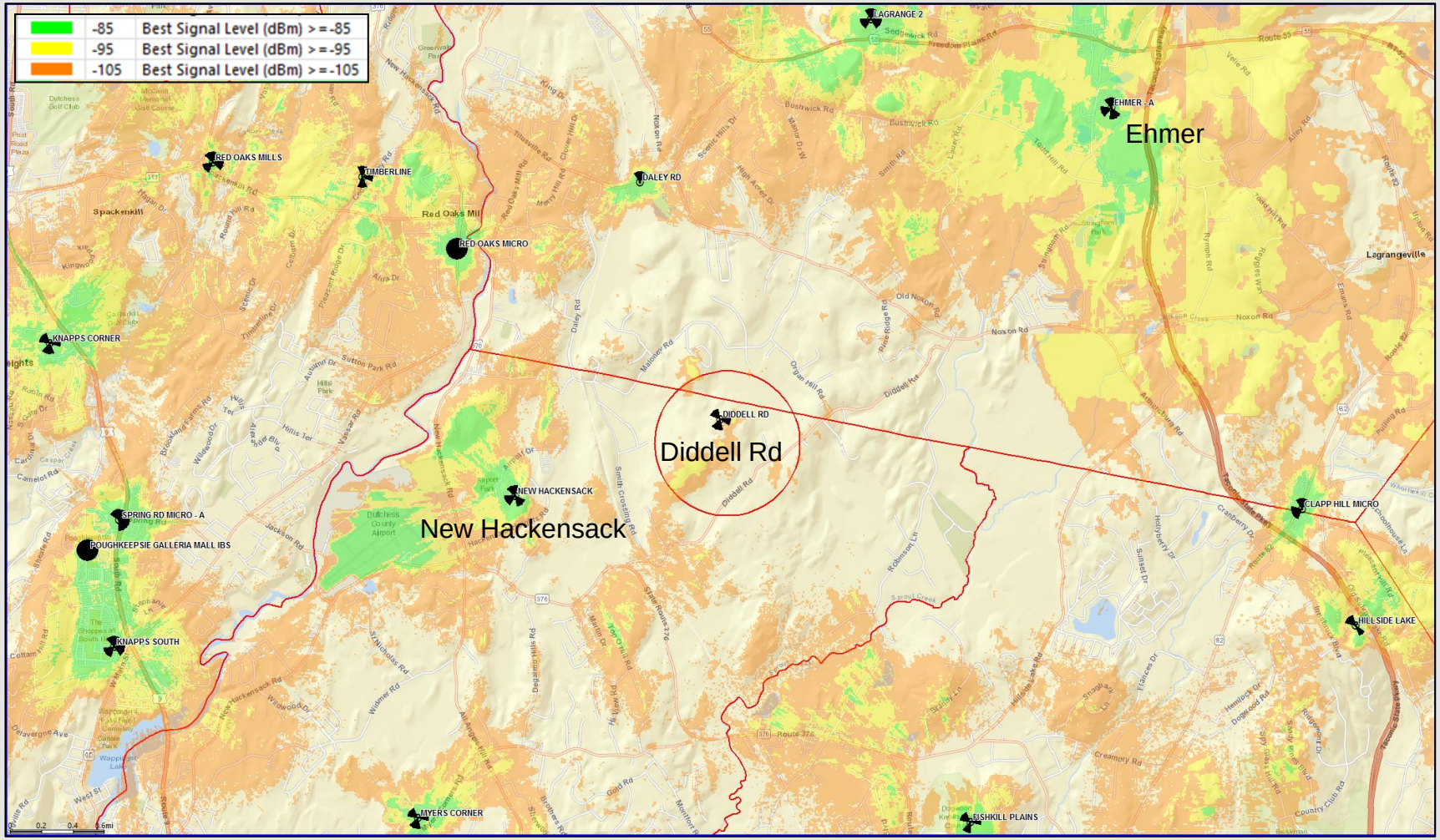
# Existing 2100MHz Coverage

This coverage map shows the RF conditions in and around the Diddell Rd site area.
*Refer to slide 10 for further explanation of these color thresholds*




The map above represents mid band coverage from existing sites. This 2100MHz signal is very weak throughout the project area. Additional mid band network densification is required to resolve these conditions.

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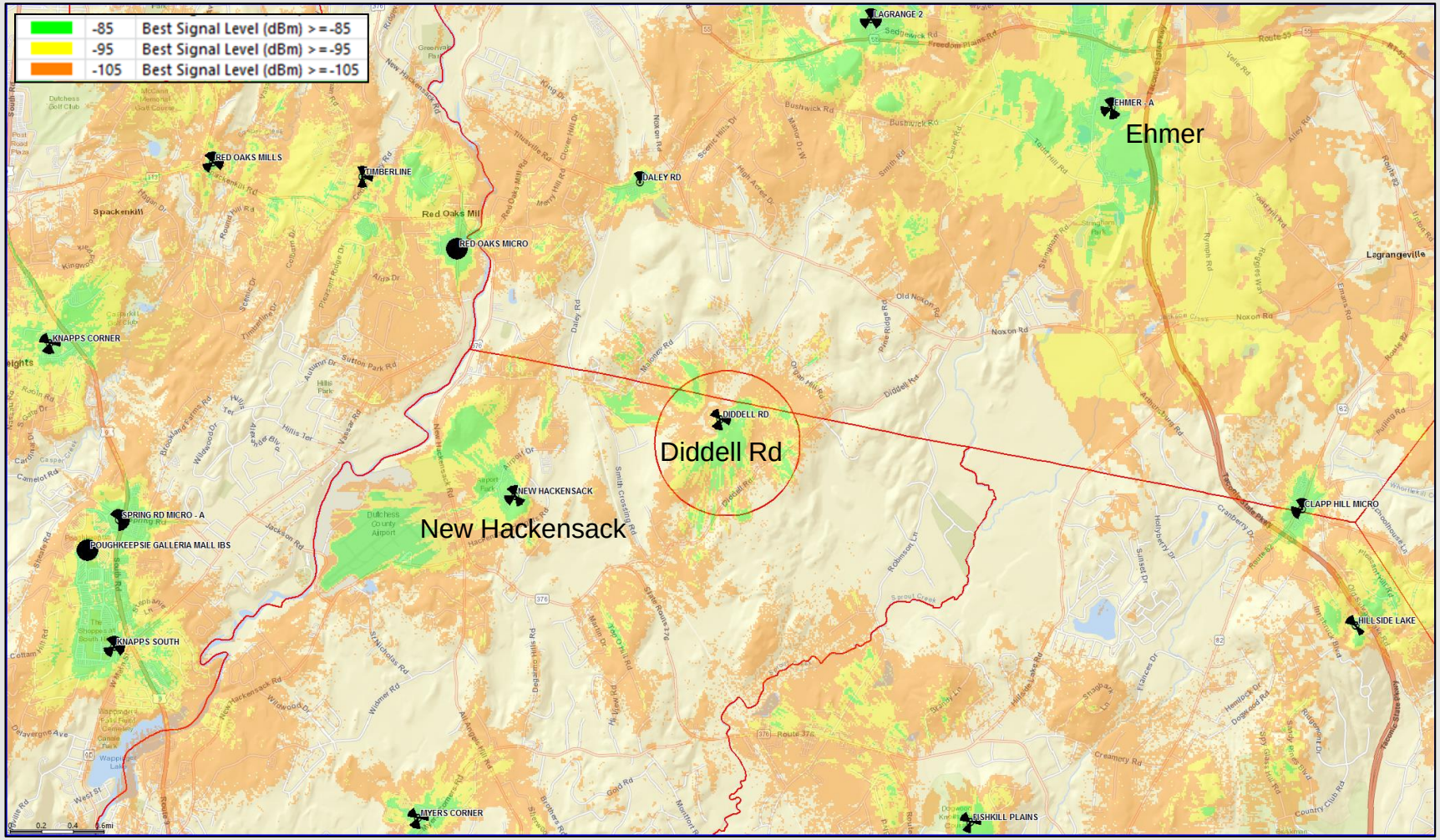
# Proposed 2100MHz Coverage

This coverage map shows how improved the RF conditions will be in and around the Diddell Rd site area (at 116' ACL).
*Refer to slide 10 for further explanation of these color thresholds*




The map above adds the mid band footprint of the proposed Diddell Rd site. The improved signal strength corresponds to improved coverage and capacity throughout the identified significant gap area.

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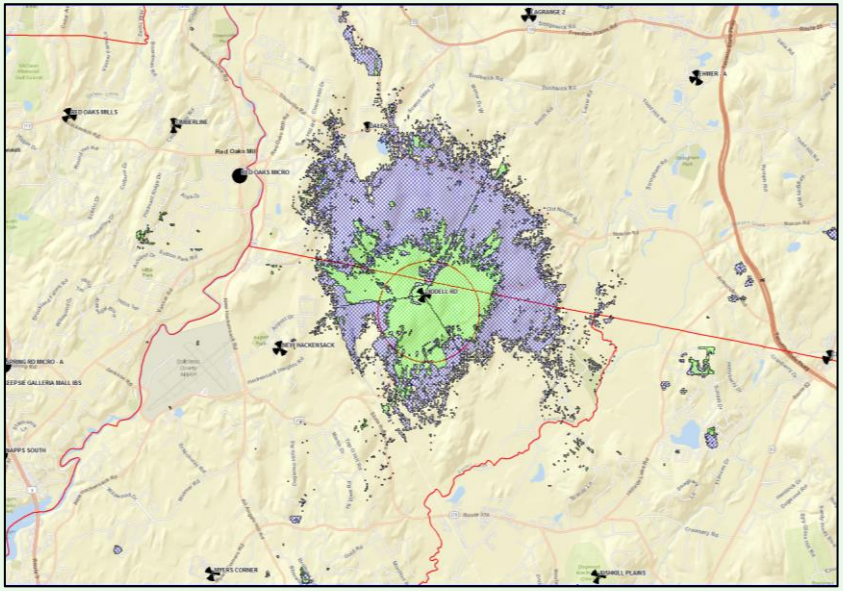
# RF Justification Summary



The proposed site at 116' ACL resolves the substantial and significant gaps in coverage and capacity impacting the Diddell Rd project area. The gaps are shown in the above graphic: The shaded areas as detailed in the legend represent gaps in coverage and capacity that Diddell Rd (site) will resolve.

The network was analyzed to determine whether there is sufficient **RF coverage and capacity** in the **Town of Wappinger**. It was determined that there are significant gaps in adequate LTE service for Verizon Wireless in the 700 and 2100MHz frequency bands. In addition to the coverage deficiencies, Verizon Wireless' network does not have sufficient capacity (low band or mid band) to handle the existing and projected LTE voice and data traffic in the area near and neighboring the proposed **Diddell Rd** facility ("targeted service improvement area"). Based on the need for additional coverage and capacity while considering the topography and specific area requiring service, any further addition of capacity to distant existing sites does not remedy Verizon's significant gap in reliable service. Therefore, the proposed facility is also needed to provide "**capacity relief**" to the existing nearby Verizon Wireless sites, allowing the proposed facility and those neighboring sites to adequately serve the existing and projected capacity demand in this area.

With the existing network configuration there are significant gaps in service which restricts Verizon Wireless customers from originating, maintaining or receiving reliable calls and network access. It is our expert opinion that the proposed height will satisfy the coverage and capacity needs of Verizon Wireless and its subscribers in this portion of the **Town of Wappinger** and the **Diddell Rd** project area. The proposed location depicted herein satisfies the identified service gaps and is proposed at the minimum height necessary for adequate service.

*Wasif Sharif*

Wasif Sharif
Engineer III – RF Design
Verizon Wireless

verizon

# VERIZON WIRELESS OF THE EAST LP
# d/b/a
# VERIZON WIRELESS

# DIDDELL RD SITE

## Diddell Rd
## Wappinger, New York

# SITE SELECTION ANALYSIS
# FEBRUARY 5, 2023

Verizon Wireless
1275 John Street, Suite #100
West Henrietta, New York 14586

4238332.v2

# SITE SELECTION ANALYSIS

Verizon Wireless proposes to install and operate a new wireless telecommunications facility, including a new tower structure, which would include associated antennas, equipment platform and related appurtenances off of Diddell Road, in the Town of Wappinger, Dutchess County, New York. The property, which is located in the Town's R-40/80 & R-3A Zoning district, is currently a 54.77 acre lot in the Town of Wappinger. The property is owned by **Patricia H. Meddaugh and Craig Tiedeman, as Trustees of the Corbin Trust, dated November 22, 2016** and consist of mainly open hay pasture with some forested lands to north west of the lot. Our subject site is located within the forested lands off the main access drive.

## 1. NEED FOR FACILITY

### (a) Problem

The process of identifying a technologically appropriate location, as well as the need for this communications facility are as provided in the **RF SEARCH RING JUSTIFICATION**. As indicated in that report, when a Verizon Wireless Radio Frequency Engineer identifies coverage gaps in the system or sites that have or will reach data capacity exhaustion, they issue a "search area." A search area is a geographical area located within the inadequately serviced area, and it is designed such that if a wireless telecommunications facility is located within the search area, and at an appropriate height, it will likely provide the required coverage. For the most part, locations outside of the search area will fail to provide adequate service to the cell. Due to technological constraints, there is limited flexibility as to where a new facility can be located, and still function properly. The goal of the search area is to define the permissible location for placement of a cell site that will provide adequate service in the subject cell, and also work properly as part of the overall network.

### (b) Solution

A search area was developed based on the problems identified in the **RF SEARCH RING JUSTIFICATION** and is attached herein as **Attachment 1**.This is the geographical area within which a new wireless telecommunications facility is likely to provide the required coverage (at an appropriate height). In this case, the search area parameter is a circle covering the largely rural area between Spring Hill Court to the south and the Town of LaGrange to the north and bounded by an existing power line corridor to the east and Maloney and Smith Crossing Roads to the east. Again, for the most part, locations outside of the search area will fail to provide adequate service to the cell while locations within are likely, but not guaranteed, to do so.

## 2. SEARCH RING ANALYSIS

### (a) Geography & Topography

The Diddell Rd Cell is located in a relatively rural area with terrain generally sloping down from the search ring center in all directions. The highest terrain is located slightly south of the search ring's center. RF identified a minimum AMSL of greater than 350'.

### (b) Land Use

The Search Ring is made up of predominately rural residential and agricultural areas. **Attachment 2** is an overlay of the Search Ring and the tax map on an aerial photograph of the area.

## 3. ZONING CONSIDERATIONS

### (a) Collocation

Verizon Wireless routinely seeks to install its antennas and equipment on an existing communications towers or other tall structures ("collocation"). Local communities universally favor Collocations because they can minimize the number of wireless telecommunications towers in an area and many municipalities even provide for a streamlined application review process. Collocation is often listed as the highest siting priority in a local municipality's Zoning Law. In addition to the streamlined zoning application process, collocation is preferred by wireless providers because it is generally a less expensive and more efficient option, compared to installation of a new tower facility.

### (b) New Structure on Municipally-owned Property

As its next priority, Verizon Wireless generally seeks to locate wireless telecommunication facilities on municipally-owned property. These locations are often preferred by municipalities as the second preference behind collocation as it allows municipalities to benefit from a rental stream for the leased premises.

### (c) New Structure on Privately-owned Property

When it is not feasible to collocate on an existing tower or tall structure, and there are no feasible municipally-owned properties in the area, Verizon Wireless must find a privately-owned site which is appropriate for and can accommodate a new communications structure. In doing so, the Site Acquisition Specialist attempts to identify properties in the Search Area large enough to accommodate the facility and which also meet any required area requirements such as set back and fall zone. In addition, other characteristics such as existing compatible land use and existing mature vegetation that can screen the facility are considered. Access, land use, constructability, the presence of wetlands, floodplains and other contributing factors are also examined.

## 4. SEARCH RING ANALYSIS

After a comprehensive investigation of the Search Ring, no technologically feasible towers or tall structures were available for collocation.

Pursuant to Section 240-81D(3)(a) of the Zoning Ordinance, wireless telecommunications facilities are permitted in the Town of Wappinger R-40/80 zoning district subject to obtaining Planning Board special permit and site plan approval.

In all zoning districts, no tower shall be located closer than 750 feet on a horizontal plane to an existing dwelling unit (Town of Wappinger § 240-81G(4)(c)(2)). In addition, towers shall be located at least 1 ½ times their maximum structural height within the outer boundary of the site on which the tower is located.

There is no maximum height except that new towers shall not exceed the minimum height necessary to provide adequate coverage. The Applicant may further request additional height to accommodate future colocation (Town of Wappinger § 240-80G(8)).

# 5. CANDIDATE/ALTERNATIVES ANALYSIS

Nine (9) parcels were identified as being potential candidates for a new communications facility. These parcels are identified on **Attachment 3**. A summary of each of these properties located within the vicinity of Search Area is detailed below.

### (a) Patricia H. Meddaugh and Craig Tiedeman, as Trustees of the Corbin Trust, dated November 22, 2016 (Tax Parcel ID# 480600) Primary Candidate

This candidate the primary candidate and subject site is comprised of one (1) parcel, located off Diddell Rd, in the Town of Wappinger, totaling 54.77 acres in size, is currently used for as hay pasture with some forested lands near the northwestern edge of the parcel, the parcel is one of three large parcels making up most of the search ring. The parcel is in the R-40/80 & R-3A zoning district. The proposed location of the tower on this property meets the Zoning setback standards of 750' from existing dwelling unit and tower setback requirements. This option was approved and is the primary candidate for Verizon RF. The AMSL of the 397' meets RF's minimum AMSL within the search ring.

### (b) Timothy Toulan (Tax Parcel ID# 376524 )

This parcel, located at 87 Diddell Rd. in the Town of Wappinger, and is 58.7 acres in size and is currently used as hay pasture and single family residential dwelling lot. This property is located slightly south of the search ring center. It is in the R-40/80 & R-3A Zoning District. The property's ground elevation rises from the east and west to a high point of 390', The property is capable of adequately meeting tower setback standards, however a waiver or variance would have needed to be obtained from the property owners dwelling unit to meet the 750' Town of Wappinger setback standard from an existing dwelling unit. The owner was initially interested, however ultimately declined interest during lease negotiations.

### (c) Patricia H. Meddaugh and Craig Tiedeman, as Trustees of the Corbin Trust, dated November 22, 2016 (Tax Parcel ID# 285420)

This parcel, located at 65 Diddell Rd, in the Town of Wappinger, is 88.6 acres in size and is currently used for agriculture/hay pasture, there is no forested land on this parcel with terrain rising 200' + in ground elevation from Diddel Rd to approximately 400'. This property is located south of the search ring center and within the R-40/80 & R-3A Zoning District. The property can adequately support the Town of Wappinger setback standards. The property is the same owner as Candidate A.

### (d) Tiffany Hill South (Tax Parcel ID# 484336)

This parcel, located at 86 Diddell Rd, in the Town of Wappinger, is 26 acres in size and is currently used for agriculture. This property is located in the Sortheast Quadrant of the search ring primarily consisting of open land used for horse rings and horse barns. It is located in the R-3A Zoning District. The property's ground elevation is approximately 330'+/-. and contains Federal delineated wetlands along the east and north section of the property. Multiple

variances from adjacent dwelling units would likely be required to waive the 750' setback variance. The location of the property near the search ring boundary, existing wetlands constraints, lower ground elevation, and need for additional setback variances clearly make this property less preferred than the primary candidate.

**(e) Amy Waterfield (Tax Parcel ID# 600360)**

This parcel, located along Diddell Rd near the Central Hudson Gas & Electric power corridor in the Town of Wappinger. It is 8.3 acre parcel consisting of cleared open space and forested land to the west. This property is located in the Northeast Quadrant of the search ring and within the R-3A Zoning District. The property's ground elevation is approximately 380'+/-. Multiple variances from adjacent dwelling units would likely be required to waive the 750' setback variance. The location of the property near the search ring boundary, lower ground elevation, and need for additional setback variances clearly make this property less preferred than the primary candidate.

**(f) Jeffrey Anesi (Tax Parcel ID# 630650)**

This parcel, located along Diddell Rd near the Central Hudson Gas & Electric power corridor in the Town of Wappinger. It is 70.8 acre parcel consisting of cleared open space and forested land to the east. This property is located in the Northeast Quadrant of the search ring and within the R-3A Zoning District. The property's ground elevation is approximately 335'+/- and is below RF's minimum AMSL of 350'. Several variances from adjacent dwelling units would likely be required to waive the 750' setback variance. The location of the property near the search ring boundary, lower ground elevation, and need for additional setback variances clearly make this property less preferred than the primary candidate.

**(g) Derek Ostuni (Tax Parcel ID# 182562)**

This parcel, located at Ostuni Way, in the Town of Wappinger, is 30.39 acres in size and is currently used as single family residential dwelling lot. This property is irregular shaped and located in the Sorthwest Quadrant of the search ring primarily consisting of forested land. It is located in the R-3A Zoning District. The property's ground elevation ranges in elevation from 240' to 365' +/-. The property would require a variance/or waiver from the property owner to locate a tower within 750' of existing dwelling unit. The owner did not respond to attempts to establish interest. The location of the property near the search ring boundary, lower ground elevation, and need for additional setback variances clearly make this property less preferred than the primary candidate.

**(f) John Ostuni (Tax Parcel ID# 134683)**

This parcel, located at 341 Maloney Rd, in the Town of Wappinger, is 59.63 acres in size and is currently used as single-family residential dwelling lot with associated agricultural uses. This property borders the southwestern portion of the search ring and primarily consists of hay pasture with a dwelling unit. It is located in the R-3A Zoning District. The property's ground elevation of 325' is significantly below RF's minimum AMSL of 350' The property would require a variance/or waiver from the property owner to locate a tower within 750' of existing dwelling unit. The owner did not respond to attempts to establish interest. The location of the property near the search ring boundary, lower ground elevation, and need for additional setback variances make this property less preferred than the primary candidate.

**(f) Charles Ostuni (Tax Parcel ID# 265780)**

This parcel, located along Maloney Rd, in the Town of Wappinger and Town of LaGrange, is currently used as single-family residential dwelling lot with associated agricultural uses. The jurisdictional line between the Town of LaGrange and the Town of Wappinger split this property into two parcels consisting of 51.8 acres in the Town of LaGrange and 36.4 acres in the Town of Wappinger. The property is within the Town of Wappinger's R-3A Zoning District. The property's ground elevation of 335' is below RF's minimum AMSL of 350'. The property would require a variance/or waiver from the property owner to locate a tower within 750' of existing dwelling unit. The owner did not respond to attempts to establish interest. The location of the property near the search ring boundary, lower ground elevation, and need for additional setback variances make this property less preferred than the primary candidate.

**Other properties and buildings within or near the search area** are not feasible to meet RF's desired coverage objectives due to the long and narrow lot size or infeasibility due to existing wetlands.

## 5. CONCLUSION

Based on the requirements of the Zoning Law, the existing conditions and land use, nine (9) parcels or locations were identified for consideration. For these reasons, as well as the results of RF review and analysis, the Patricia Meddaugh location is the best location for the proposed facility.

**Prepared by:**

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Consultant to Verizon Wireless

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Radio Frequency (RF) Design Engineer
Verizon Wireless

# ATTACHMENT 1

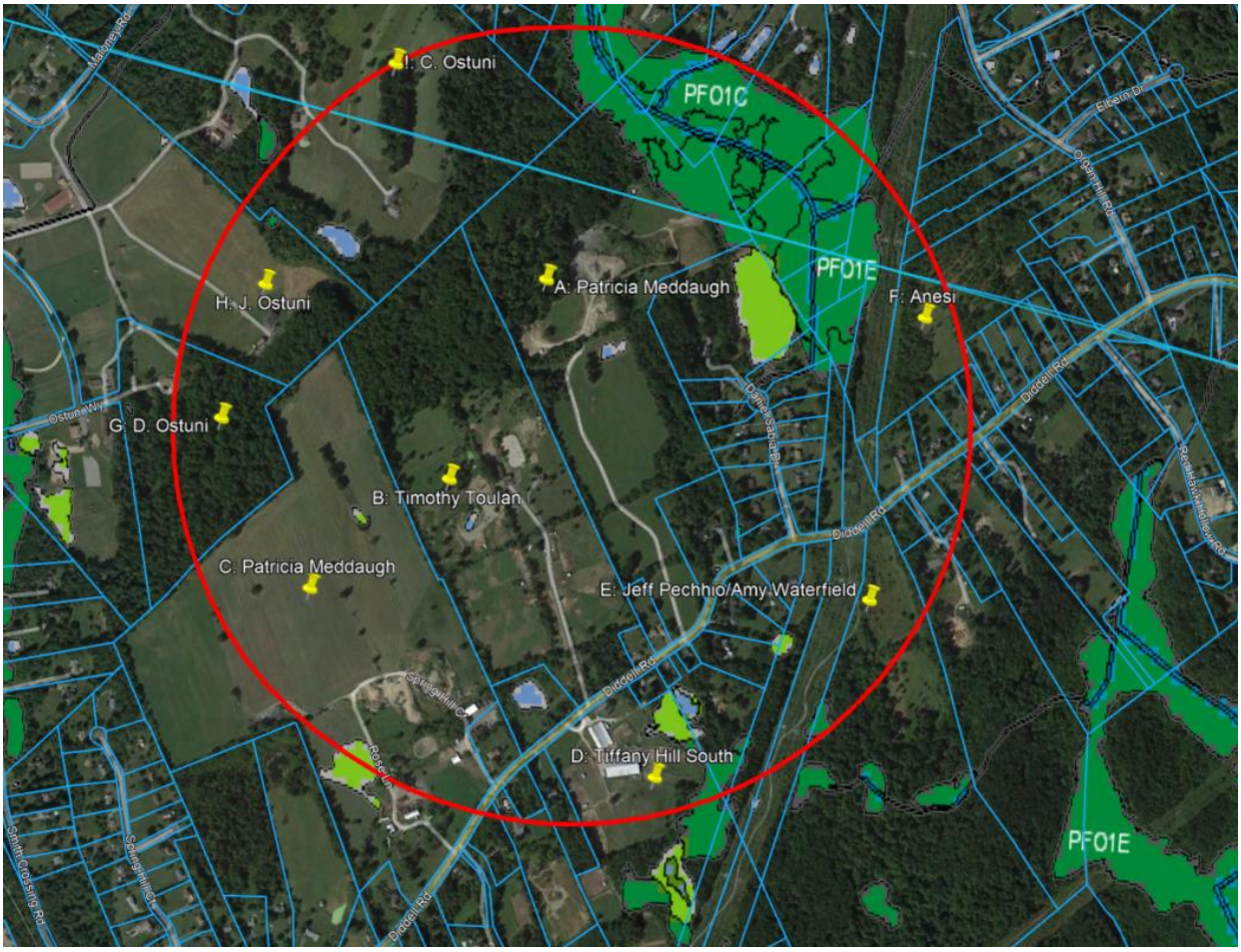
## VERIZON WIRELESS
## Diddell Rd SEARCH RING

# ATTACHMENT 2

## VERIZON WIRELESS
## OVERLAY – SEARCH RING, TAX MAP, AERIAL

# ATTACHMENT 3

## VERIZON WIRELESS
## PARCELS IDENTIFIED & INVESTIGATED



## Instructions for Completing Part 1

**Part 1 is to be completed by the applicant or project sponsor.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

### A. Project and Applicant/Sponsor Information.

| | | |
|---|---|---|
| Name of Action or Project:<br>Verizon Wireless of the East LP, d/b/a Verizon Wireless - Unmanned Wireless Communications Facility - "Diddell Rd" | | |
| Project Location (describe, and attach a general location map):<br>Diddell Road, Wappinger Falls, Dutchess County, NY 12590 | | |
| Brief Description of Proposed Action (include purpose or need):<br>Verizon Wireless of the East LP, d/b/a Verizon Wireless ("Verizon Wireless" or "Applicant") propose the installation of an unmanned wireless communications facility located on the existing property. Said property being located on Diddell Road 0.17 miles West of Daniel Sabia Drive. Access to the proposed facility will originate from Diddell Rd utilizing an existing and proposed gravel driveway.<br><br>In general, the installation will consist of the following: an 120' tall monopole (124' including 4' lightning rod), twelve (12) antennas and related equipment to be mounted to the tower at a center-line height of 116', cellular and utility equipment at grade in a proposed 50'x50' fenced compound. The project also includes the installation of power and fiber to service the facility. | | |
| Name of Applicant/Sponsor:<br>Verizon Wireless of the East LP, d/b/a Verizon Wireless | Telephone: (585) 321-5435<br>E-Mail: kathy.pomponio@verizonwireless.com | |
| Address: 1275 John Street, Suite 100 | | |
| City/PO: West Henrietta | State: NY | Zip Code: 14586 |
| Project Contact (if not same as sponsor; give name and title/role):<br>Young Sommer LLC; attn: Scott Olson, esq. | Telephone: (518) 438-9907<br>E-Mail: solson@youngsommer.com | |
| Address:<br>5 Palisades Drive | | |
| City/PO:<br>Albany | State:<br>NY | Zip Code:<br>12205 |
| Property Owner (if not same as sponsor):<br>Patricia H. Meddaugh & Craig Tiedeman | Telephone:<br>E-Mail: | |
| Address:<br>79 Diddell Road | | |
| City/PO: Wappingers Falls | State: NY | Zip Code: 12590 |

**B. Government Approvals**

| **B. Government Approvals, Funding, or Sponsorship.** ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.) | | |
|---|---|---|
| **Government Entity** | **If Yes: Identify Agency and Approval(s) Required** | **Application Date (Actual or projected)** |
| a. City Council, Town Board, or Village Board of Trustees ☐Yes ☑No | | |
| b. City, Town or Village Planning Board or Commission ☑Yes ☐No | Planning Board - Special Permit & Site Plan Review | TBD |
| c. City, Town or Village Zoning Board of Appeals ☐Yes ☑No | | |
| d. Other local agencies ☑Yes ☐No | Building Department - Building Permit | TBD |
| e. County agencies ☐Yes ☑No | | |
| f. Regional agencies ☐Yes ☑No | | |
| g. State agencies ☐Yes ☑No | | |
| h. Federal agencies ☐Yes ☑No | | |

i. Coastal Resources.

*i.* Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐Yes ☑No

*ii.* Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

*iii.* Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

**C. Planning and Zoning**

**C.1. Planning and zoning actions.**

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

**C.2. Adopted land use plans.**

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

**C.3. Zoning**

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
R-40/80 (One Family Residence District) & R-3A (One Family Residence District)

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
*i.* What is the proposed new zoning for the site? _____

**C.4. Existing community services.**

a. In what school district is the project site located? Arlington Central School District

b. What police or other public protection forces serve the project site?
New York State Police, Dutchess County Sheriff

c. Which fire protection and emergency medical services serve the project site?
Arlington Fire District - Red Oaks Mill

d. What parks serve the project site?
Robinson Lane Park

**D. Project Details**

**D.1. Proposed and Potential Development**

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Unmanned wireless communication facility

b. a. Total acreage of the site of the proposed action? 54.77 acres
b. Total acreage to be physically disturbed? 0.56 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.08 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
*i.* If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
*i.* Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
_____
*ii.* Is a cluster/conservation layout proposed? ☐ Yes ☐ No
*iii.* Number of lots proposed? _____
*iv.* Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
*i.* If No, anticipated period of construction: 2 months
*ii.* If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No
If Yes, show numbers of units proposed.

| | One Family | Two Family | Three Family | Multiple Family (four or more) |
|---|---|---|---|---|
| Initial Phase | _____ | _____ | _____ | _____ |
| At completion of all phases | _____ | _____ | _____ | _____ |

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No
If Yes,
*i.* Total number of structures 1 (tower)
*ii.* Dimensions (in feet) of largest proposed structure: 124' height; 5' width; and _____ length
*iii.* Approximate extent of building space to be heated or cooled: 0 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No
If Yes,
*i.* Purpose of the impoundment: _____
*ii.* If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐Other specify: _____
*iii.* If other than water, identify the type of impounded/contained liquids and their source. _____
*iv.* Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
*v.* Dimensions of the proposed dam or impounding structure: _____ height; _____ length
*vi.* Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

**D.2. Project Operations**

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No
If Yes:
*i* .What is the purpose of the excavation or dredging? _____
*ii.* How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

*iii.* Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____
*iv.* Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No
If yes, describe. _____
*v.* What is the total area to be dredged or excavated? _____ acres
*vi.* What is the maximum area to be worked at any one time? _____ acres
*vii.* What would be the maximum depth of excavation or dredging? _____ feet
*viii.* Will the excavation require blasting? ☐Yes ☐No
*ix.* Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No
If Yes:
*i.* Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

*ii.* Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

_____

_____

_____

*iii.* Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

*iv.* Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

  _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

*v.* Describe any proposed reclamation/mitigation following disturbance: _____

_____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

*i.* Total anticipated water usage/demand per day: _____ gallons/day

*ii.* Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

*iii.* Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

  _____
- Source(s) of supply for the district: _____

*iv.* Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

*v.* If a public water supply will not be used, describe plans to provide water supply for the project: _____

_____

*vi*. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

*i.* Total anticipated liquid waste generation per day: _____ gallons/day

*ii.* Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

_____

_____

*iii.* Will the proposed action use any existing public wastewater treatment facilities? ☐Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☐No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

*iv.* Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☐No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

*v.* If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

*vi.* Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐Yes ☑No

If Yes:

*i.* How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

*ii.* Describe types of new point sources. _____

*iii.* Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐Yes ☐No

*iv.* Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☑Yes ☐No

If Yes, identify:

*i.* Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

Construction equipment

*ii.* Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

N/A

*iii.* Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

N/A

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

*i.* Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

*ii.* In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide ($CO_2$)
- _____Tons/year (short tons) of Nitrous Oxide ($N_2O$)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride ($SF_6$)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

*i.* Estimate methane generation in tons/year (metric): _____

*ii.* Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

*i.* When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

*ii.* For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

*iii.* Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

*iv.* Does the proposed action include any shared use parking? ☐Yes ☐No

*v.* If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

*vi.* Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

*vii* Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

*viii.* Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

*i.* Estimate annual electricity demand during operation of the proposed action: _____

Minimal increase in electrical power usage as necessary to operate the facility.

*ii.* Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

Local utlility

*iii.* Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

*i.* During Construction:

- Monday - Friday: 8am - 5pm
- Saturday: _____
- Sunday: _____
- Holidays: _____

*ii.* During Operations:

- Monday - Friday: 24 hours
- Saturday: 24 hours
- Sunday: 24 hours
- Holidays: 24 hours

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

*i.* Provide details including sources, time of day and duration:

During construction, noise associated with the operation of construction equipment

*ii.* Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

*i.* Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

One (1) switch operated LED light fixture attached to the h-frame at grade, designed to illuminate the area in and around the Verizon equipment only

*ii.* Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

*i.* Product(s) to be stored _____

*ii.* Volume(s) _____ per unit time _____ (e.g., month, year)

*iii.* Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

*i.* Describe proposed treatment(s):

_____

*ii.* Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

*i.* Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

*ii.* Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

*iii.* Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

*i.* Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

*ii.* Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

*iii.* If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

*i.* Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

*ii.* Generally describe processes or activities involving hazardous wastes or constituents: _____

*iii.* Specify amount to be handled or generated _____ tons/month

*iv.* Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

*v.* Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

_____

**E. Site and Setting of Proposed Action**

**E.1. Land uses on and surrounding the project site**

a. Existing land uses.

*i.* Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☑ Rural (non-farm)
☑ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

*ii.* If mix of uses, generally describe:

_____

b. Land uses and covertypes on the project site.

| Land use or Covertype | Current Acreage | Acreage After Project Completion | Change (Acres +/-) |
|---|---|---|---|
| • Roads, buildings, and other paved or impervious surfaces | 13.46 | 13.93 | +0.47 |
| • Forested | 22.51 | 22.15 | -0.36 |
| • Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural) | 18.52 | 18.41 | -0.11 |
| • Agricultural (includes active orchards, field, greenhouse etc.) | | | |
| • Surface water features (lakes, ponds, streams, rivers, etc.) | 0.28 | 0.28 | 0.0 |
| • Wetlands (freshwater or tidal) | | | |
| • Non-vegetated (bare rock, earth or fill) | | | |
| • Other Describe: _____ | | | |

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

*i.* If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

*i.* Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

*i.* Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

*ii.* Dam's existing hazard classification: _____

*iii.* Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

*i.* Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

*ii.* Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

*iii.* Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

*i.* Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

_____

_____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

*i.* Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

*ii.* If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

*iii.* Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☐ No

If yes, provide DEC ID number(s): _____

*iv.* If yes to (i), (ii) or (iii) above, describe current status of site(s):

_____

_____

*v.* Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

**E.2. Natural Resources On or Near Project Site**

a. What is the average depth to bedrock on the project site? +7 feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

| | |
|---|---|
| DwB | 72.2 % |
| DwC | 24.6 % |
| Ca | 3.2 % |

d. What is the average depth to the water table on the project site? Average: +7 feet

e. Drainage status of project site soils:
- ☑ Well Drained: 100 % of site
- ☐ Moderately Well Drained: _____% of site
- ☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
- ☑ 0-10%: 90 % of site
- ☑ 10-15%: 10 % of site
- ☐ 15% or greater: _____% of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

*i.* Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

*ii.* Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

*iii.* Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

*iv.* For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name Freshwater Pond Classification PUBHx
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

*v.* Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

*i.* Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site:

| | | |
|---|---|---|
| Rabbits | Squirrels | Skunks |
| Chipmunks | Oppossums | Foxes |
| Birds | Raccoons | Deer |

n. Does the project site contain a designated significant natural community? ☐ Yes ☑ No

If Yes:

*i.* Describe the habitat/community (composition, function, and basis for designation): _____

*ii.* Source(s) of description or evaluation: _____

*iii.* Extent of community/habitat:

- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

If Yes:

*i.* Species and listing (endangered or threatened): _____

Indiana Bat

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

*i.* Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☑ No

If yes, give a brief description of how the proposed action may affect that use: _____

**E.3. Designated Public Resources On or Near Project Site**

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☑ Yes ☐ No

If Yes, provide county plus district name/number: DUTC022

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

*i.* If Yes: acreage(s) on project site? _____

*ii.* Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

*i.* Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

*ii.* Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

*i.* CEA name: _____

*ii.* Basis for designation: _____

*iii.* Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☑ No

If Yes:

*i.* Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

*ii.* Name: _____

*iii.* Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

*i.* Describe possible resource(s): _____

*ii.* Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

*i.* Identify resource: _____

*ii.* Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

*iii.* Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

*i.* Identify the name of the river and its designation: _____

*ii.* Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

**F. Additional Information**

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

**G. Verification**

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Steven Matthews, agent on behalf of applicant Date 02/03/23

Signature Steven Matthews Title Director of Engineering

PRINT FORM

# EAF Mapper Summary Report

Tuesday, January 17, 2023 3:34 PM


**Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.


| | |
|---|---|
| B.i.i [Coastal or Waterfront Area] | No |
| B.i.ii [Local Waterfront Revitalization Area] | No |
| C.2.b. [Special Planning District] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h [DEC Spills or Remediation Site - Potential Contamination History] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.i [DEC Spills or Remediation Site - Listed] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.iii [Within 2,000' of DEC Remediation Site] | No |
| E.2.g [Unique Geologic Features] | No |
| E.2.h.i [Surface Water Features] | No |
| E.2.h.ii [Surface Water Features] | Yes |
| E.2.h.iii [Surface Water Features] | Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. |
| E.2.h.v [Impaired Water Bodies] | No |
| E.2.i. [Floodway] | No |
| E.2.j. [100 Year Floodplain] | No |
| E.2.k. [500 Year Floodplain] | No |
| E.2.l. [Aquifers] | No |
| E.2.n. [Natural Communities] | No |
| E.2.o. [Endangered or Threatened Species] | Yes |
| E.2.o. [Endangered or Threatened Species - Name] | Indiana Bat |

| | |
|---|---|
| E.2.p. [Rare Plants or Animals] | No |
| E.3.a. [Agricultural District] | Yes |
| E.3.a. [Agricultural District] | DUTC022 |
| E.3.c. [National Natural Landmark] | No |
| E.3.d [Critical Environmental Area] | No |
| E.3.e. [National or State Register of Historic Places or State Eligible Sites] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.3.f. [Archeological Sites] | No |
| E.3.i. [Designated River Corridor] | No |

verizon

1275 John Street, Suite 100
West Henrietta, New York 14586

February 6, 2023

Bruce Flower, Planning Board Chairman
Town of Wappinger
20 Middlebush Road
Wappingers Falls, NY 12590

RE: Verizon Wireless of the East LP d/b/a Verizon Wireless
Application "Diddell Rd" for Special Use Permit and Site Plan Review
Off Diddell Road, Town of Wappinger

Dear Chairman Flower:

In the event the above-referenced application is approved and the facility constructed, Verizon Wireless agrees to:

1. respond in a timely comprehensive manner to a request for information from a potential shared-use applicant;
2. negotiate in good faith concerning future requests for shared use of the new facility by other wireless service providers;
3. allow shared use of the new facility if another wireless service provider agrees in writing to pay reasonable and customary charges, provided that collocation is appropriate for the existing structure and the proposed collocation.

Thank you for your consideration of the above-referenced application.

Very truly yours,

*Kathy Pomponio*
Kathy Pomponio
Principal Engineer – Real Estate/Regulatory

**Writer's Direct Number:**
**Tel: 518-321-5435**

SiteSafe
A QUALTEK Company

# Verizon Wireless
# Site Compliance Report

**Site Name: Diddell Rd**
**Site Address: Diddell Road**
**Wappingers Falls, NY 12590**
**Structure Type: Monopole**

Report generated on: February 1, 2023
Report by: Benjamin Schnable
Customer Contact: Wasif Sharif

---

**Verizon Wireless will be compliant with the FCC Rules and Regulations in all publicly accessible areas.**

STATE OF NEW YORK
HUGO W. JUSTINIANO
087547
LICENSED PROFESSIONAL ENGINEER
2/2/23

Site Safe, LLC
8618 Westwood Center Drive, Suite 315, Vienna, VA 22182
703.276.1100 • 703.276.1169 fax
info@sitesafe.com • www.sitesafe.com

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# Table of Contents

# 1 Executive Summary

Verizon Wireless has contracted with Site Safe, LLC (Sitesafe), an independent radiofrequency (RF) regulatory and engineering consulting firm, to determine if the proposed telecommunications facility is in compliance with the Federal Communications Commission (FCC) Rules and Regulations for RF emissions (see Appendix A of this report for further explanation of the FCC Rules and Regulations). This document and the conclusions herein are based on the information provided by representatives of Verizon Wireless which is assumed to be true and correct.

Verizon Wireless is proposing to install (6) Commscope NHH-65C-R2B antennas at the 116' above ground level, (3) Samsung XXDWMM-12.5-65 antennas at the 119.5' above ground level, and (3) Samsung MT6407-77A integrated antennas at the 118.5' above ground level on a newly installed monopole. Verizon Wireless is also proposing to install (6) new dual-band remote radio heads and (3) single-band remote radio heads in a locked and secured area at ground level. Upon completion of the installation, Verizon Wireless will operate on the following frequency bands: 751 MHz LTE, 850 MHz 5G, PCS, AWS1, CBRS, and 3700 MHz C-band.

The analysis evaluates the telecommunications facility with respect to the General Public maximum permissible exposure (MPE) limits ("General Public" is also referred to as "Uncontrolled Environment"; see Appendix A for further explanation of this classification). Sitesafe has taken into consideration the existing/proposed Verizon Wireless antenna system as well as any other collocated antenna systems at the subject location.

Based on the analysis, Sitesafe has determined that:

**Verizon Wireless will comply** in all publicly accessible areas with the FCC Rules and Regulations governing human exposure to RF electromagnetic fields as described in 47 CFR § 1.1307(b) and 1.1310 in accordance with the methods for evaluating compliance contained in OET Bulletin 65.

Furthermore, with the proposed Verizon Wireless antenna configuration in service, the composite exposure from this facility in all areas at ground level will be below 1% of the General Public MPE limit, or over 100 times less than the maximum allowed exposure in publicly accessible areas.

## 2 Analysis

In this analysis, Sitesafe has taken into consideration the existing/proposed Verizon Wireless antenna system as well as any other collocated antenna systems at the subject location. All existing and proposed licensees are listed in the antenna inventory table in Section 3 of this report. If specific antenna and operating parameter information for the other collocated licensees was not provided, typical assumptions were made based on Sitesafe experience and/or any available information.

Using this data, software modeling was performed for all transmitting antennas located at the site. Sitesafe has assumed a 100% duty cycle and maximum radiated power. The site has been modeled with these assumptions to determine the maximum potential RF energy density. Sitesafe believes this to be a worst-case analysis based on the best available data.

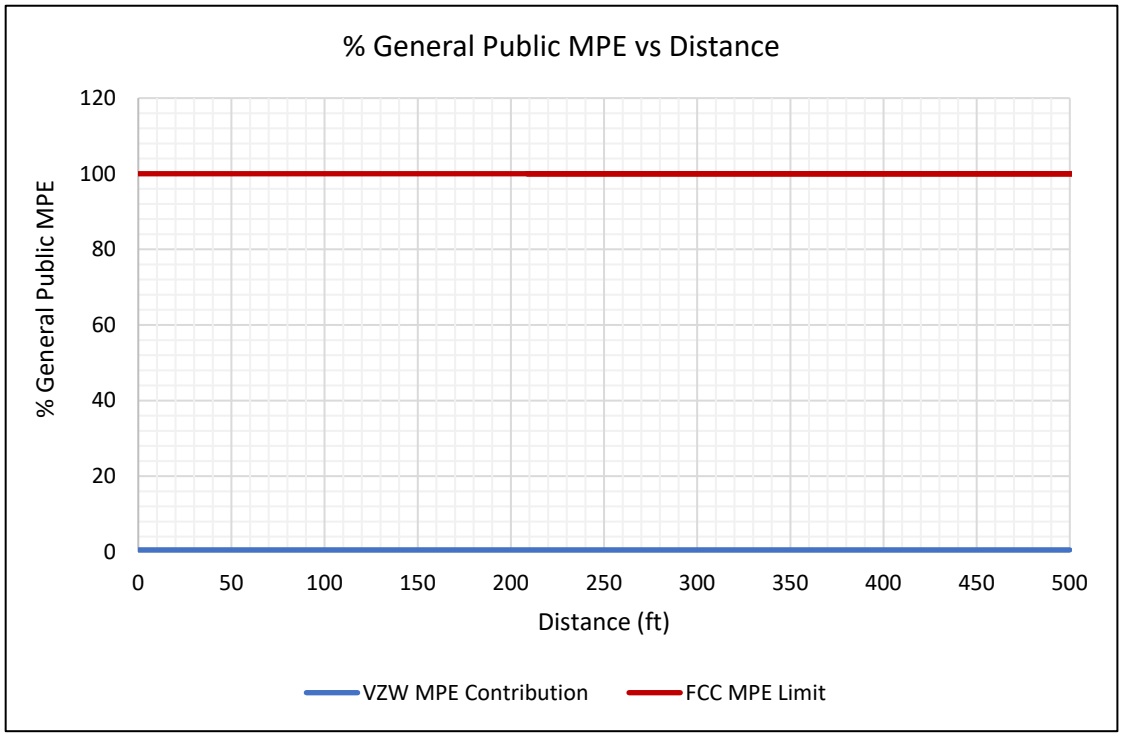
The power density calculations performed by the software tool use FCC prescribed methodologies as contained in OET Bulletin 65, which was compiled by the FCC to provide assistance in evaluating compliance with FCC guidelines for human exposure to electromagnetic fields.

As stated in Section 1, based on this analysis, the calculated ground level exposure from the Verizon Wireless antenna system alone as well as the composite exposure from all existing/proposed licensees will be below 1% of the General Public MPE limit.

Keep in mind that the FCC did not arbitrarily establish their own standards but rather adopted the recommendations of national and international organizations such as the National Council on Radiation Protection and Measurements (NCRP), the American National Standards Institute (ANSI) and the Institute of Electrical and Electronics Engineers (IEEE). These recommendations were developed by expert scientists and engineers following extensive evaluation of the potential biological effects from RF exposure. The FCC MPE limits are based on thresholds for known adverse effects, and they were designed to provide a substantial margin of safety. There is a safety factor of 50 built into the General Public MPE limits, and the predicted Verizon Wireless exposure levels are over 100 times below these very conservative limits.

In cases where such compliance exists, the subject of electromagnetic field safety is preempted by the Telecommunications Act of 1996, which states: "No state or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the (Federal Communication) Commission's regulations concerning such emissions."

Lastly, the graph below provides a visual depiction of the rather insignificant electromagnetic field exposure contribution from the Verizon Wireless antenna system at any distance from the base of the structure. This portrays how low the Verizon Wireless contribution is when compared to the General Public MPE limit.



## 3 Antenna Inventory

The following antenna inventory contains data provided by the customer and/or gathered by Sitesafe personnel which was used to perform the analysis:

| Ant # | Operator | Antenna Make/Model | TX Freq (MHz) | Tech. | Az (Deg) | ERP (Watts) | AGL (ft) | MDT | EDT |
|---|---|---|---|---|---|---|---|---|---|
| 1 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 90 | 3891.53 | 116' | 0 | 4 |
| 1 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 90 | 3982.17 | 116' | 0 | 4 |
| 1 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 2100 | LTE/AWS1 | 90 | 9913.14 | 116' | 0 | 2 |
| 2 | VERIZON WIRELESS (Proposed) | Samsung MT6407-77A | 3700 | 5G | 90 | 43167.43 | 118.5' | 0 | 6 |
| 3 | VERIZON WIRELESS (Proposed) | Samsung XXDWMM-12.5-65-8T | 3550 | LTE/CBRS | 90 | 227 | 119.5' | 0 | 8 |
| 4 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 90 | 3891.53 | 116' | 0 | 4 |
| 4 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 90 | 3982.17 | 116' | 0 | 4 |
| 4 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 1900 | LTE | 90 | 2877.99 | 116' | 0 | 2 |
| 5 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 200 | 3891.53 | 116' | 0 | 4 |
| 5 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 200 | 3982.17 | 116' | 0 | 4 |
| 5 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 2100 | LTE/AWS1 | 200 | 9913.14 | 116' | 0 | 2 |
| 6 | VERIZON WIRELESS (Proposed) | Samsung MT6407-77A | 3700 | 5G | 200 | 43167.43 | 118.5' | 0 | 6 |
| 7 | VERIZON WIRELESS (Proposed) | Samsung XXDWMM-12.5-65-8T | 3550 | LTE/CBRS | 200 | 227 | 119.5' | 0 | 8 |
| 8 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 200 | 3891.53 | 116' | 0 | 4 |
| 8 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 200 | 3982.17 | 116' | 0 | 4 |
| 8 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 1900 | LTE | 200 | 2877.99 | 116' | 0 | 2 |
| 9 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 320 | 3891.53 | 116' | 0 | 4 |
| 9 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 320 | 3982.17 | 116' | 0 | 4 |
| 9 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 2100 | LTE/AWS1 | 320 | 9913.14 | 116' | 0 | 2 |
| 10 | VERIZON WIRELESS (Proposed) | Samsung MT6407-77A | 3700 | 5G | 320 | 43167.43 | 118.5' | 0 | 6 |
| 11 | VERIZON WIRELESS (Proposed) | Samsung XXDWMM-12.5-65-8T | 3550 | LTE/CBRS | 320 | 227 | 119.5' | 0 | 8 |
| 12 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 751 | LTE | 320 | 3891.53 | 116' | 0 | 4 |

| Ant # | Operator | Antenna Make/Model | TX Freq (MHz) | Tech. | Az (Deg) | ERP (Watts) | AGL (ft) | MDT | EDT |
|---|---|---|---|---|---|---|---|---|---|
| 12 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 850 | 5G | 320 | 3982.17 | 116' | 0 | 4 |
| 12 | VERIZON WIRELESS (Proposed) | Commscope NHH-65C-R2B | 1900 | LTE | 320 | 2877.99 | 116' | 0 | 2 |

Notes: Each row with the same number in the *Ant #* column references the same physical antenna. Proposed equipment is tagged as *(Proposed)* under *Operator* or *Antenna Make and Model*. Power values provided by the client and used in the analysis may be greater than what is initially deployed. For additional modeling information, refer to Appendix B of this report.

## 4 Engineer Certification

The Professional engineer whose seal appears on the cover of this document herby certifies and affirms:

That I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I am providing professional engineering services on behalf of QualTek Engineering, P.C., and am an employee of QualTek Wireless, LLC, sister company to Site Safe, LLC (both under the parent company QualTek); and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specially as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Benjamin Schnable.

February 1, 2023

## Appendix A – Technical Framework: FCC Rules and Regulations

In 1996, the FCC adopted regulations for evaluating of the effects of RF emissions in 47 CFR § 1.1307(b) and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (OET Bulletin 65), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996, the FCC periodically reviews these rules and regulations as per its congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled Environment" and General Public or "Uncontrolled Environment". The General Public limits are generally five times more conservative or restrictive than the Occupational limits.

General Public or Uncontrolled limits apply to *accessible* areas where workers or the general public may be exposed to RF electromagnetic fields.

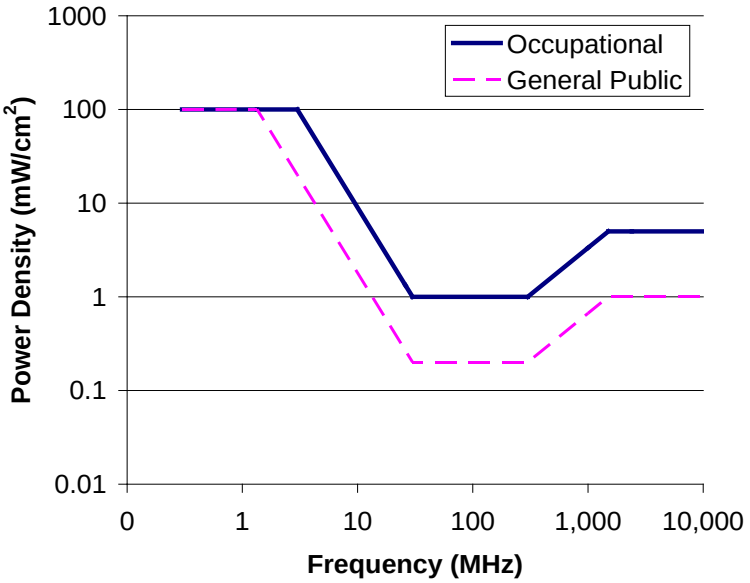
Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (e.g. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage.

A site with Controlled environments is evaluated with Occupational limits. All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage, it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The MPE limits utilized in this analysis are outlined in the following diagram and table:

## FCC Limits for Maximum Permissible Exposure (MPE)

**Plane-wave Equivalent Power Density**




### Limits for Occupational/Controlled Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm$^2$) | Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes) |
|---|---|---|---|---|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f$^2$)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | -- | -- | f/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |

### Limits for General Population/Uncontrolled Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm$^2$) | Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes) |
|---|---|---|---|---|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f$^2$)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | -- | -- | f/1500 | 30 |
| 1500-100,000 | -- | -- | 1.0 | 30 |

f = frequency in MHz *Plane-wave equivalent power density

## Appendix B – Definitions

***Compliance*** – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

***Decibel (dB)*** – A unit for measuring power or strength of a signal.

***Duty Cycle*** – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source. A duty cycle of 100% corresponds to continuous operation.

***Effective (or Equivalent) Isotropic Radiated Power (EIRP)*** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

***Effective Radiated Power (ERP)*** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

***Gain (of an antenna)*** – The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power density at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. Gain may be considered for a specified polarization. Gain may be referenced to an isotropic antenna (dBi) or a half-wave dipole (dBd) antenna.

***Generic Antenna*** – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided. In the event of unknown information, Sitesafe will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

***Maximum Permissible Exposure (MPE)*** – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

***OET Bulletin 65*** – Technical guideline developed by the FCC's Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

***Radio Frequency Exposure or Electromagnetic Fields*** – Electromagnetic waves that are propagated from antennas through space.

## Appendix C – Statement of Limiting Conditions

Sitesafe will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. Sitesafe cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions or information or data supplied by Verizon Wireless, the site manager, or their affiliates, subcontractors or assigns.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by Sitesafe, the physical data will be used.

## Appendix D – Additional Resources

Additional RF information is available at the following sites:
https://www.fcc.gov/general/radio-frequency-safety-0
https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety