CUDDY +FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
T 914 761 1300
F 914 761 5372
cuddyfeder.com

Alec R. Gladd, Esq.
agladd@cuddyfeder.com

December 11, 2023

BY E-MAIL
Mayor Gina D. Picinich
and Hon. Members of the Board of Trustees
C/O Edward W. Brancati, Village Manager
Village Hall
104 Main Street
Mount Kisco, NY 10549

Re: DISH Wireless – Eligible Facilities Request
Adjournment Request – Special Use Permit
Premises: 1 Mountain Avenue
(Tax Parcel 69.56-4-7)

Dear Mayor Picinich and Members of the Board of Trustees:

On behalf of DISH Wireless LLC ("DISH" or the "Applicant"), we respectfully submit this letter to request that the Board of Trustees adjourn the Applicant's continued Public Hearing scheduled for December 18, 2023 to the next available agenda. The Applicant is requesting this extension of time so that Crown Castle may bring the Site into compliance with their Planning Board Site Plan Approval.

The Applicant looks forward to appearing before the Board of Trustees to discuss this matter in the near future. Should this Board or Village Staff have any questions or comments, please do not hesitate to contact me.

Very truly yours,

Alec R. Gladd

Enclosures

cc: DISH Wireless LLC
Crown Castle
Maximillian R. Mahalek, Esq.
Christopher B. Fisher, Esq.
Edward W. Brancati, Village/Town of Mount Kisco, Village Manager

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150
Tel (914) 241-0500 • Fax (914) 241-9018
www.mountkiscony.gov

VILLAGE/TOWN OF MOUNT KISCO

PUBLIC NOTICE

Please take notice that the Board of Trustees of the Village/Town of Mount Kisco has scheduled a public hearing on **Monday, October 16, 2023 at 7:00 pm** or as soon thereafter as possible, in the Frank J. DiMicco Board Room in Village Hall, located at 104 Main Street, Mount Kisco, New York, to discuss a special use permit for 1 Mountain Avenue.

By Order of Mayor Picinich and the Board of Trustees
Edward W. Brancati, Village Manager

CUDDY +FEDER LLP

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White Plains, New York 10601
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October 24, 2023

By Email and Federal Express
Mayor Gina D. Picinich
And Hon. Members of the Board of Trustees
C/O Edward W. Brancati, Village Manager
Village Hall
104 Main Street
Mt. Kisco, New York 10549

Re: DISH Wireless – Eligible Facilities Request
Request for Special Use Permit
Premises: 1 Mountain Avenue (Tax Parcel: 69.56-4-7)

Dear Mayor Picinich and Members of the Board of Trustees:

On behalf of DISH Wireless LLC, enclosed please find an Affidavit of Mailing evidencing the first-class mailing completed on October 19, 2023 of the annexed Public Notice to all property owners within 300 feet of the property lines of the subject Premises, as set forth on the annexed list, provided by the Secretary to the Village Manager, with the exception of the parcel that lie within the Town of Bedford, prepared by using the Town of Bedford Assessment Records. Also enclosed please find copies of the first-class stamped mailings. Upon receipt of any returned envelopes, we will promptly forward same.

It is our understating that the Village/Town is responsible for and has coordinated publishing Notice in the local newspaper(s) and coordinated sign posting. Please incorporate the enclosed documents as part of the official record of the proceeding. Thank you in advance for your time and attention to the within.

Very truly yours,

Riddar Nget
Paralegal

Enclosures

cc: Maximillian R. Mahalek, Esq.
Christopher B. Fisher, Esq.

AFFIDAVIT OF MAILING

STATE OF NEW YORK }
}SS.:
COUNTY OF WESTCHESTER }

Riddar Nget being duly sworn, deposes and says:

I reside at Danbury, Connecticut

On October 19 20 23 I served a notice of hearing, a copy of which is attached hereto and labeled Exhibit A, upon persons whose names are listed in a schedule of property owners within 300 feet of the subject property identified in this notice. A copy of this schedule of property owners' names is attached hereto and labeled Exhibit B. I placed a true copy of such notice in a postage paid property addressed wrapper addressed to the addresses set forth in Exhibit B, in a post office or official depository under the exclusive care and custody of the United States Post Office, within the County of Westchester.

Riddar Nget, Paralegal

Sworn to before me on this

24th day of October 2023

(Notary Public)

MEYLING NUNEZ
NOTARY PUBLIC-STATE OF NEW YORK
No. 01NU0009619
Qualified in Westchester County
My Commission Expires 06-14-2027

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150
Tel (914) 241-0500 • Fax (914) 241-9018
www.mountkiscony.gov

VILLAGE/TOWN OF MOUNT KISCO

PUBLIC NOTICE

Please take notice that the Board of Trustees of the Village/Town of Mount Kisco has scheduled a public hearing on **Monday, November 6, 2023 at 7:00 pm** or as soon thereafter as possible, in the Frank J. DiMicco Board Room in Village Hall, located at 104 Main Street, Mount Kisco, New York, to discuss a special use permit for a personal wireless service facility installation at 1 Mountain Avenue.

By Order of Mayor Picinich and the Board of Trustees
Edward W. Brancati, Village Manager

Exhibit A

Property Owner's List							
SBL	**Property Owner**			**Mailing Address**	**City**	**State**	**Zip**
69.49-3-2	255 Kisco LLC			7550 Wisconsin Ave Fl 6th	Bethesda	MD	98294
69.49-3-3	HVA Realty, LLC	c/o Tax Dept		200 SW 1st Ave Fl 11	Fort Lauderdale	FL	33301
69.49-4-1	Village of Mount Kisco	re: Mountain Ave		104Main St	Mount Kisco	NY	10549
69.56-2-6	Moynihan Jeanne	Moynihan Jason		40 Turner Ln	Mount Kisco	NY	10549
69.56-2-7	Village/Town of Mount Kisco	re: 0 Turner Ln		104 Main St	Mount Kisco	NY	10549
69.56-2-8	Landi Luigi	Bourdier Nixzalis		16 Turner Ln	Mount Kisco	NY	10549
69.56-3-1	Westchester County	Park Comm		Croton Ave	White Plains	NY	10601
69.56-4-1	Colon Jessica M	Roman Joseph		68 Washburn Rd	Mount Kisco	NY	10549
69.56-4-2	Cindrich Michael J			69 Washburn Rd	Mount Kisco	NY	10549
69.56-4-3	Cindrich John Michael	Cindrich Linda		63 Washburn Rd	Mt. Kisco	NY	10549
69.56-4-4	Berger Sarah			55 Washburn Rd	Mt. Kisco	NY	10549
69.56-4-5	Fashena Margaret M	Fashena Jonathan M		47 Washburn Rd	Mount Kisco	NY	10549
69.56-4-6	Village of Mount Kisco	re: Mountain Ave		104 Main St	Mt Kisco	NY	10549
69.56-4-7	Village of Mount Kisco			104 Main St	Mt Kisco	NY	10549
69.57-1-1	Trinity Investment Properties	Trinity Properties LLC		21 Lauder Ln	Greenwich	CT	06831
69.57-1-3.1	William Louis-Dreyfus Fndtn In	211 Kisco Ave		PO Box 320	Mount Kisco	NY	10549
69.57-1-3.2	25 Hubbels Drive Mt.Kisco Corp	Attn: MRE Mgmt. Corp.		27 Radio Circle Dr	Mt Kisco	NY	10549
69.57-1-4	Kisco Avenue Business Center			500 Executive Blvd Ste 203	Ossining	NY	10562
69.57-1-5	Curtis Instruments Inc.	Attn: Stewart Marwell		200 Kisco Ave	Mt Kisco	NY	10549
69.64-2-2	Bauscher Michael	Donohue Jean Marie		58 Washburn Rd	Mount Kisco	NY	10549
69.64-2-3	Petfield Aaron B	Petfield Cynthia A		50 Washburn Rd	Mount Kisco	NY	10549
69.64-2-4.1	Yolen Douglas B	Rhodes Jennifer		36 Washburn Rd	Mount Kisco	NY	10549
69.64-2-4.2	Deramo Vincent	Palmisano Laura		40 Washburn Rd	Mount Kisco	NY	10549
69.64-2-5	Devoto John	Devoto Denise		26 Washburn Rd	Mt Kisco	NY	10549
69.64-2-6	Saucci Janet M	Janet Saucci Trust		20 Washburn Rd	Mt Kisco	NY	10549
69.64-2-7	Justiniano Jason	Justiniano Amy		14 Washburn Rd	Mount Kisco	NY	10549
69.64-2-8	Baker Robert C	Baker Danielle M		2 Washburn Rd	Mt Kisco	NY	10549
69.64-3-1	Kensing Howard G Jr	Kensing Eileen		45 Washburn Rd	Mt Kisco	NY	10549
69.64-3-2	Kollarus Christopher I	Kollarus Christa M		33 Washburn Rd	Mt Kisco	NY	10549
69.64-3-3	Nerenburg Michael	Forgione Lisa		23 Washburn Rd	Mt Kisco	NY	10549
69.64-3-4	Watson Bret	Watson Nicole		13 Washburn Rd	Mt Kisco	NY	10549
69.64-3-5	Rosenkilde Carl E	Rosenkilde Diane		5 Washburn Rd	Mt Kisco	NY	10549
69.64-4-1	Village/Town of Mount Kisco			104 Main St	Mount Kisco	NY	10549
69.64-5-3	Zipp Jeanne A	Jeanne A Zipp Irrev Trust	Jan Crosson	30 Pinewood Dr	Topsham	ME	04086
69.64-5-4	Farrell Mark F	Farrell Maureen F	c/o Mark Farrell	30 Emery Ave	Mt Kisco	NY	10549
69.64-5-5	Farrell Mary C			30 Emery St	Mt Kisco	NY	10549
69.64-5-6	Coleman Thomas	Coleman Fashena		20 Emery St	Mt Kisco	NY	10549
69.64-5-7.1	cutler thomas	hayward laurie		14 Emery St	Mt Kisco	NY	10549
69.64-5-7.2	10 Emery Street Holdings LLC			10 Emery St	Mt Kisco	NY	10549
69.64-5-8	Downey Karen C	Downey Margaret C		50 Mountain Ave	Mt Kisco	NY	10549
69.65-1-1	Village of Mount Kisco			104 Main St	Mt Kisco	NY	10549
69.65-1-3	Greenmountain Enterprises	34 Maple Ave		PO Box 8	Armonk	NY	10504
71.15-1-5	Landi Luigi	Bourdier Nixzalis		16 Turner Ln	Bedford Corners	NY	10549
	Town of Bedford	Town Clerk		321 Bedford Road	Bedford Hills	NY	10507

Exhibit B

	Westchester County Department of Planning	Municipal Referrals		148 Martine Avenue Suite #432	White Plains	NY	10601

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Westchester County Department of Planning
Municipal Referrals
148 Martine Avenue Suite #432
White Plains, NY 10601

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Town of Bedford
Town Clerk
321 Bedford Road
Bedford Hills, NY 10507

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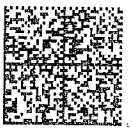

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Bourdier Nixzalis
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Greenmountain Enterprises
34 Maple Ave
PO Box 8
Armonk, NY 10504

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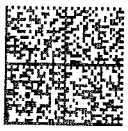

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Village of Mount Kisco
104 Main St
Mt Kisco, NY 10549

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Downey Karen C
Downey Margaret C
50 Mountain Ave
Mt Kisco, NY 10549

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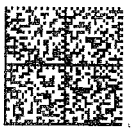

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10 Emery Street Holdings LLC
10 Emery St
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Cutler Thomas
Hayward Laurie
14 Emery St
Mt Kisco, NY 10549

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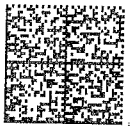

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Coleman Thomas
Coleman Fashena
20 Emery St
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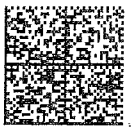

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Farrell Mary C
30 Emery St
Mt Kisco, NY 10549

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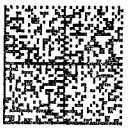

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Farrell Mark F
Farrell Maureen F
c/o Mark Farrell
30 Emery Ave
Mt Kisco, NY 10549

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Zipp Jeanne A
Jeanne A Zipp Irrev Trust
Jan Crosson
30 Pinewood Dr
Topsham, ME 04086

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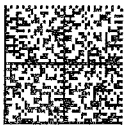

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Rosenkilde Carl E
Rosenkilde Diane
5 Washburn Rd
Mt Kisco, NY 10549

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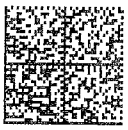

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Watson Nicole
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Forgione Lisa
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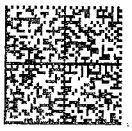

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Kollarus Christopher I
Kollarus Christa M
33 Washburn Rd
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Kensing Howard G Jr
Kensing Eileen
45 Washburn Rd
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Baker Danielle M
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Justiniano Jason
Justiniano Amy
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Saucci Janet M
Janet Saucci Trust
20 Washburn Rd
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Devoto John
Devoto Denise
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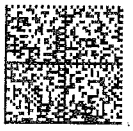

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Deramo Vincent
Palmisano Laura
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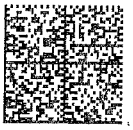

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Rhodes Jennifer
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Petfield Cynthia A
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Donohue Jean Marie
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Curtis Instruments Inc.
Attn: Stewart Marwell
200 Kisco Ave
Mt Kisco, NY 10549

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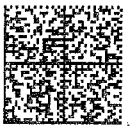

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Kisco Avenue Business Center
500 Executive Blvd Ste 203
Ossining, NY 10562

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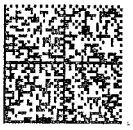

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25 Hubbels Drive Mt.Kisco Corp
Attn: MRE Mgmt. Corp.
27 Radio Circle Dr
Mt Kisco, NY 10549

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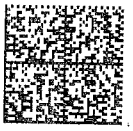

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William Louis-Dreyfus Fndtn In
211 Kisco Ave
PO Box 320
Mount Kisco, NY 10549

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Trinity Investment Properties
Trinity Properties LLC
21 Lauder Ln
Greenwich, CT 0

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Village of Mount Kisco
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Mt Kisco, NY 10549

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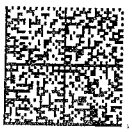

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Village of Mount Kisco
re: Mountain Ave
104 Main St
Mt Kisco, NY 10549

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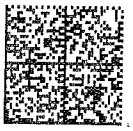

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Fashena Margaret M
Fashena Jonathan M
47 Washburn Rd
Mount Kisco, NY 10549

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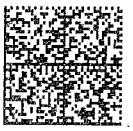
LLP

FIRST-CLASS



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Berger Sarah
55 Washburn Rd
Mt. Kisco, NY 10549

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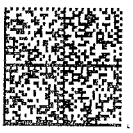

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Cindrich John Michael
Cindrich Linda
63 Washburn Rd
Mt. Kisco, NY 10549

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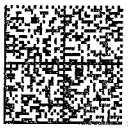

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Cindrich Michael J
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Mount Kisco, NY 10549

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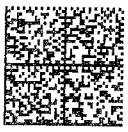

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Roman Joseph
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Mount Kisco, NY 10549

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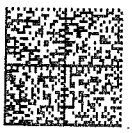

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Moynihan Jeanne
Moynihan Jason
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Village of Mount Kisco
re: Mountain Ave
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Mount Kisco, NY 10549

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HVA Realty, LLC
c/o Tax Dept
200 SW 1st Ave Fl 11
Fort Lauderdale, FL 33301

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255 Kisco LLC
7550 Wisconsin Ave Fl 6th
Bethesda, MD 98294

Journal News
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Agency:
MT KISCO TOWN/VILLAGE OF
104 E MAIN ST
MOUNT KISCO, NY 10549
ATTN: kjhg
Acct: TJN-038378200

RECEIVED
OCT 16 2023
Mount Kisco
Office of the Village Manager

Client: MT KISCO TOWN/VILLAGE OF
104 E MAIN ST,
MOUNT KISCO, NY 10549

Acct No: TJN-038378200

This is not an invoice

Order #	Advertisement/Description	Items	# Col x # Lines	Cost
0005839744	loiugf VILLAGETOWNOFMOUNTKISCOPUBLICNOTICEPL EASETAKENOTICETHATTHEBOARDOFTRUSTEES	Legal Notices	3 col x 10 lines	$60.00
		Affidavit of Publication Charge	1	$30.00
		Tearsheet Charge	0	$0.00
		Subtotal:		$90.00
		Agency Commission	0	$0.00
		Order Total Due:		**$90.00**

Editions Date: 10/06/2023

The Journal News
P. O. Box 822883
Philadelphia, PA 19182-2883

Journal News
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AFFIDAVIT OF PUBLICATION
FROM

State of Wisconsin
County of Brown, ss.:

On the 6 day of October in the year 2023, before me, the undersigned, a Notary Public in and for said State, personally appeared linda tutt, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed, the instrument.

linda tutt being duly sworn says that he/she is the principal clerk of **THE JOURNAL NEWS,** a newspaper published in the County of Westchester and the State of New York, and the notice of which the annexed is a printed copy, on the editions dated :

Zone:	**Run Dates:**
Westchester	10/06/2023

linda tutt
Signature

Sworn to before me, this 6 day of October, 2023

Amy Kokott
Notary Public. State of Wisconsin. County of Brown

AMY KOKOTT
Notary Public
State of Wisconsin

6/30/2025
My commission expires

Legend:

WESTCHESTER:
Amawalk, Ardsley, Ardsley on Hudson, Armonk, Baldwin Place, Bedford, Bedford Hills, Brewster, Briarcliff Manor,Bronxville, Buchanan, Carmel, Chappaqua, Cold Spring, Crompond, Cross River, Croton Falls, Croton on Hudson, Dobbs Ferry, Eastchester, Elmsford, Garrison, Goldens Bridge, Granite Springs, Greenburg, Harrison, Hartsdale, Hastings, Hastings on Hudson, Hawthorne, Irvington, Jefferson Valley, Katonah, Lake Peekskill, Larchmont, Lincolndale, Mahopac, Mahopac Falls, Mamaroneck, Millwood, Mohegan Lake, Montrose, Mount Kisco,Mount Vernon, New Rochelle, North Salem, Ossining, Patterson, Peekskill, Pelham, Pleasantville, Port Chester, Pound Ridge, Purchase, Purdys, Putnam Valley, Rye, Scarsdale, Shenorock, Shrub Oak, Somers, South Salem, Tarrytown, Thornwood, Tuckahoe, Valhalla, Verplanck, Waccabuc, White Plains, Yorktown Heights, Yonkers

ROCKLAND:
Blauvelt, Congers, Garnerville, Haverstraw, Hillburn, Monsey, Nanuet, New City, Nyack, Orangeburg, Palisades, Pearl River, Piermont, Pomona, Sloatsburg, Sparkill, Spring Valley, Stony Point, Suffern, Tallman, Tappan, Thiells, Tomkins Cove, Valley Cottage, West Haverstraw, West Nyack

Ad Number: 0005839744

Ad Number: 0005839744

Run Dates: 10/06/2023

VILLAGE/TOWN OF MOUNT KISCO

PUBLIC NOTICE

Please take notice that the Board of Trustees of the Village/Town of Mount Kisco has scheduled a public hearing on **Monday, November 6, 2023** at 7:00 pm or as soon thereafter as possible, in the Frank J. DiMicco Board Room in Village Hall, located at 104 Main Street, Mount Kisco, New York, to discuss a special use permit for 1 Mountain Avenue.

0005839744

By Order of Mayor Picinich and the Board of Trustees
Edward W. Brancati, Village Manager

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150
Tel (914) 241-0500 • Fax (914) 241-9018
www.mountkiscony.gov

State of New York)
) ss:
County of Westchester)

AFFIDAVIT OF POSTING – Special Use Permit

Gilmar Palacios Chin, being duly sworn, says that on the 3rd day of October 2023, he conspicuously fastened up and posted in seven public places, in the Village/Town of Mount Kisco, County of Westchester, a printed notice of which the annexed is a true copy, to Wit: ---

Municipal Building – 104 Main Street	X
Public Library 100 Main Street	X
Fox Center	X
Justice Court – Green Street 40 Green Street	X
Mt. Kisco Ambulance Corp 310 Lexington Ave	X
Carpenter Avenue Community House 200 Carpenter Avenue	X
Leonard Park Multi Purpose Bldg	X

Gilmar Palacios Chin

Sworn to before me this 3rd day of Oct 2023

Notary Public

LIZETTE A DAVIS
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01DA6442037
Qualified in Dutchess County
Commission Expires OCTOBER 11, 2026

CUDDY +FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
T 914 761 1300
F 914 761 5372
cuddyfeder.com

Maximillian R. Mahalek, Esq.
mmahalek@cuddyfeder.com

September 28, 2023

BY E-MAIL
Mayor Gina D. Picinich
and Hon. Members of the Board of Trustees
C/O Edward W. Brancati, Village Manager
Village Hall
104 Main Street
Mount Kisco, NY 10549

Re: DISH Wireless – Eligible Facilities Request
Request for Special Use Permit
Premises: 1 Mountain Avenue
(Tax Parcel 69.56-4-7)

Dear Mayor Picinich and Members of the Board of Trustees:

On behalf of our client, DISH Wireless LLC ("DISH" or the "Applicant"), we respectfully submit this letter and the referenced enclosures in support of its request for a Special Use Permit to locate wireless equipment at an existing wireless facility (or "tower") located at 1 Mountain Avenue (Tax Parcel 69.56-4-7) ("Premises"), which is owned by the Village/Town. This request is being undertaken as a part of DISH's rollout of its new 5G broadband network, which is being regulated by the Federal Communications Commission ("FCC").

DISH's proposed co-location comprises adding three (3) antennas to the facility and ancillary equipment. This request will require Special Use Permit and Site Plan Approval, pursuant to Sections 110-27.1 and 110-45(A)(1) of the Zoning Code. An Application has been field with the Planning Board for Site Plan Approval, and by way of this letter, the request for the Special Use Permit is being made of the Board of Trustees. A Special Use Permit is required as this Premises is located outside of the Village's Personal Wireless Service Facilities Overlay Zoning District. It is noted that this type of co-location project is preferred by the Village/Town, pursuant to Section 110-27.1(E)(2) of the Zoning Code. The requested Special Use Permit should be granted by this Board, as these improvements will enhance connectivity – which has a direct public safety benefit; will not increase the height of the existing tower; and will not interfere with the operation of existing equipment.

Existing Facility and Proposed Co-Location

The Premises contains an existing tower which currently supports other providers, and stands at 125 feet, 11 inches, inclusive of the MTA Police Antennae on its top. The Premises is located in the Village/Town's Conservation Development ("CD") Zoning District, and is owned by the

Village/Town. DISH now proposes to collocate its equipment on this tower at a centerline height of 76 feet. DISH proposes to install three (3) antennas. No tower height extension is required, and the co-location will not exceed the structural capacity of the tower. In addition, DISH proposes an equipment platform and other minor accessory equipment.

For the Board's benefit, it is noted that our Office has met previously with Village/Town Staff and Consultants, as well as with the Planning Board (as a part of the ongoing Site Plan review), to discuss the proposed design. The enclosed revised design reflects the outcome of the comments received at these meetings. The Applicant has relocated its proposed infrastructure, so no tower height extension is required. Moreover, a previously proposed fiber vault outside of the compound has been removed.

DISH's installation will improve wireless services within the Village/Town for its residents and visitors – enhancing safety and connectivity - while creating minimal-to-no visual impacts to the community.

Eligible Facilities Request

DISH's co-location constitutes an eligible facilities request (or "EFR") under Section 6409 of the Middle-Class Tax Relief and Job Creation Act of 2012, codified at 28 U.S.C. § 1455 ("Section 6409") and the regulations of the Federal Communications Commission ("FCC").[1] Congress enacted Section 6409 in an effort to speed deployment of wireless networks to enhance public safety through more robust and reliable wireless networks.[2] A local government must approve an EFR pursuant to Section 6409 within 60 days of the request being submitted when it has been demonstrated that the proposed modifications will not substantially change the physical dimensions of the existing facility. An EFR constitutes any request for modification of an existing wireless tower or base station involving collocation of new transmission equipment, removal of transmission equipment, or replacement of transmission equipment that does not substantially change the physical dimensions of such tower or base station.[3] An existing facility consists of any structure that currently supports wireless equipment, including antennas, that has been reviewed and approved under the local zoning or siting process.[4]

The enclosed Construction Drawings prepared KMB Design Group illustrate that the proposed collocation will not "substantially change" the physical dimensions of the existing site pursuant to the applicable FCC regulations, and therefore constitutes an EFR under Section 6409.[5] The

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[1] *See Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies*, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and *Implementation of State & Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250 (June 10, 2020).
[2] *See* FCC Report and Order, adopted October 17, 2014 (FCC 14-153) ("2014 FCC Order"), ¶ 137.
[3] 47 U.S.C. 1455(a)(2).
[4] *See* 2014 FCC Order at ¶ 174.
[5] "Notwithstanding Section 704 of the Telecommunications Act of 1996 (Public Law 104-104) or any other provision of law, a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." 47 C.F.R. § 1455(a)(1).

proposed modifications will simply result in 3 antennas and minor accessory equipment being added to the existing facility. The proposed collocation is therefore exempt from discretionary approval and subject to expedited review.

The applicable regulations state that a municipality must complete its review and "[w]ithin 60 days of the date on which an applicant submits a request seeking approval under this section, the State or local government shall approve the application unless it determines that the application is not covered by this section."[6] If the process does not comply with this mandatory timeframe, DISH's application is deemed to be automatically granted.[7]

Limited Documentation Required

In addition to its mandate that local governments approve any eligible facilities requests for modifications such as the proposed collocation, the federal government has placed limits on what a local government can require to be submitted and the amount of time in which the submission must be reviewed and approved. Regarding the permitted submissions, the governing regulations provide that:

> *[A] State or local government may require the applicant to provide documentation or information only to the extent reasonably related to determining whether the request meets the requirements of this section.*[8]

DISH's enclosed Construction Drawings demonstrate that the proposed collocation meets the requirements of an EFR. In addition, enclosed here you will find a current Structural Analysis Report (**Exhibit C**), a Radio Frequency – Electromagnetic Energy Report (**Exhibit D**), and a Siting Justification Report (**Exhibit G**).

This Eligible Facilities Request Complies with the Village Code's Criteria

This EFR complies with the criteria found under Section 110-27.1 of the Zoning Code's telecommunication regulations. It is a co-location on an existing tower and avoids the construction of a new monopole, which is a priority pursuant to Section 110-27.1(E)(2) of the Zoning Code. Moreover, there will be no height extension as a part of this co-location, the antennas will be located below the existing infrastructure on the tower, and the antennas will match the other existing antennas in appearance - minimizing any potential visual impact. See Section 110-27.1(E)(3), (E)(7), and (F).

It is noted that the existing tower is located outside of the Village/Town's Personal Wireless Service Facilities Overlay District, requiring a Special Use Permit from this Board. However, the Village/Town Code does prioritize co-locations on existing towers, and again, this proposal does

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[6] 47 C.F.R. § 1.6100(c)(2); *see also* 2014 FCC Order at ¶¶ 21, 128, 216, 226.
[7] 47 C.F.R. § 1.6100(c)(4). The Request for Site Plan Approval was filed with the Planning Board on June 30, 2023.
[8] 47 C.F.R. § 1.6100(c)(1).

not require the construction of a new tower. See Section 110-27.1(E)(2). Moreover, pursuant to the enclosed Siting Justification Report (**Exhibit G**), this location is necessary in order to provide coverage to a large part of the Town/Village which would face a service gap otherwise; as well as to offload congestion at neighboring cell sites, including a previously approved site within the Personal Wireless Service Facilities Overlay Zoning District at 304 Lexington Avenue. See Section 110-27.1(H).

Index of Enclosures and Conclusion

The Applicant submits the following materials in furtherance of this proposal:

Exhibit A:	Copy of Planning Board Application Form Previously Filed;[9]
Exhibit B:	Short Environmental Assessment Form;
Exhibit C:	Structural Analysis Report, prepared by Crown Castle and dated February 10, 2023; and
Exhibit D:	Radio Frequency – Electromagnetic Energy Report, prepared by EBI Consulting and dated May 19, 2023;
Exhibit E:	FCC Licenses;
Exhibit F:	Excerpt of Title Report listing details of Village/Town-owned Premises; and
Exhibit G:	Siting Justification Report, prepared by DISH Wireless and dated September 22, 2023.

Also enclosed Construction Drawings prepared by KMB Design Group revised September 20, 2023, and a Survey dated March 27, 2018.

The Applicant looks forward to appearing before the Board of Trustees to discuss this proposal. In the meanwhile, if you have any questions or comments with regard to the foregoing, please do not hesitate to contact me.

Very truly yours,

Maximillian R. Mahalek
Enclosures

cc: DISH Wireless LLC
Crown Castle
Christopher B. Fisher, Esq.
Edward W. Brancati, Village/Town of Mount Kisco, Village Manager

[9] Note that the Application Form is executed by Crown Castle, Tower Owner and agent of DISH Wireless LLC.

Exhibit A

VILLAGE OF MOUNT KISCO PLANNING BOARD

104 Main Street
Mount Kisco, New York 10549
914-864-0022
www.mountkisco.org

PLANNING BOARD APPLICATION PACKAGE

- ✓ **Planning Board Application Review Process and Procedures**
- ✓ **Planning Board Application Form**
- ✓ **Planning Board Submission Checklist**
- ✓ **Short Environmental Assessment Form (EAF)**
- ✓ **Coverage Calculation Worksheet**
- ✓ **Planning Board Meeting Dates/Submission Deadlines**

VILLAGE OF MOUNT KISCO PLANNING BOARD

104 Main Street
Mount Kisco, New York 10549
914-864-0022
www.mountkisco.org

Planning Board Application Review Process and Procedures

Planning Board Responsibilities and Membership

The Planning Board consists of seven (7) members and up to two (2) alternate members, all of which are residents of the Village and are appointed by the Village Board of Trustees for a three (3) year term. Alternate members of the Planning Board attend Planning Board meetings and participate in deliberations, but only vote in the event that a member of the Planning Board is absent or otherwise unable to act with respect to a particular matter. The Planning Board is led by a Chairman and Vice Chairman, positions which are appointed by the Mayor and confirmed by the Village Board of Trustees. All membership is volunteer and Board members are required to obtain continuing education credits each year as required by law.

The Planning Board is responsible for the review and approval of all applications concerning Site Plans, Subdivisions, Special Use Permits, Change of Use Permits, Wetland Permits and Steep Slope Permits, and any amendments thereto. The Planning Board adheres to various Village, County, NYC Watershed, State, and Federal land use and environmental laws, the Village's Comprehensive Plan, and is required to ensure that decisions rendered by the Planning Board are made in compliance with the State Environmental Quality Review Act (SEQRA).

Depending on the nature of the application, a project may require approval from other Boards, such as the Village Board of Trustees, the Zoning Board of Appeals, the Architectural Review Board, and the Planning Board may seek input from the Conservation Advisory Council and other Village departments and agencies on an as-needed basis. Applications before the Planning Board are also reviewed by the Building Inspector, the Village Planner, the Village Engineer, the Village Attorney, and other special consultants when required.

Planning Board Meeting Dates and Submission Deadlines

Unless otherwise determined, the Planning Board meets twice per month, on the 2nd and 4th Tuesdays of each month; submissions are made to the Planning Board Secretary no less than 21 days in advance of the intended meeting date. Planning Board typically holds a work session in advance of each regular meeting which is open to the public but does not involve public or applicant participation; the regular meeting begins at 7:30PM. All Planning Board meetings are held in the in the Frank J. DiMicco, Sr. room located at Village Hall, 104 Main Street, Mount Kisco; meetings may also be conducted virtually, as may be necessary. A Planning Board meeting calendar is available on the Village's website and through the Planning Board Secretary.

Pre-Application Meeting

Before an application is submitted to the Planning Board, the applicant must schedule a meeting with the Building Inspector and Village Planner to review the proposed project. The purpose of this pre-application meeting is to discuss the project, to determine zoning compliance (or noncompliance), for staff to provide some guidance to the applicant regarding the process and submission requirements, and to ensure that applications/plans submitted to the Planning Board are complete and contain necessary information. Appointments shall be scheduled by calling the Planning Board Secretary at 914-864-0022.

Contact Information-Village Staff

Michelle Russo – Planning Board Secretary
planning@mountkisco.org
914-864-0022

Peter Miley – Building Inspector
pmiley@mountkisco.org
914-864-0019

Jan K. Johannessen, AICP – Village Planner
Kellard Sessions Consulting, DPC
jjohannessen@kelses.com
914-273-2323

Anthony Oliveri, P.E. – Village Engineer
Dolph Rotfeld Engineering, P.C.
anthony@drepc.com
914-631-8600

Whitney Singleton, Esq. – Village Attorney
Singleton, Davis & Singleton
wsingleton@sdslawny.com
914-666-4400

Submission Requirements

Prior to submitting an application, the applicant must demonstrate legal standing (i.e. the applicant is the owner, tenant, contract vendee, etc.) and must have obtained permission from the property owner to make the application; the owner of the property must sign the application form. All property taxes owed to the Village of Mount Kisco shall be paid in full prior to making application to the Planning Board.

Four (4) hard copies of the application form and all accompanying plans, documents, reports, etc. (collated and folded), must be filed with the Planning Board Secretary at least 21 days prior to the intended Planning Board meeting date. Submissions are to be accompanied by an explanatory cover letter and annotated response to any previously issued written comments. Only applications deemed complete will be placed on an agenda.

All plans submitted to the Planning Board must be prepared, signed and sealed by a NYS licensed professional as required by law.

In addition to hard copies, the applicant shall submit a complete electronic copy of all submission materials in PDF format. The method of digital submission shall be as determined by the Planning Board Secretary.

Application Fees and Escrow

At the time of submission of any application to the Planning Board, the applicant shall pay the required application fee(s) and establish an escrow account from which withdrawals shall be made to reimburse the Village for the cost of professional review services and meeting/coordination with the Village's consultants. The application fee(s) and initial escrow deposit shall be in accordance with the Planning Board Fee/Escrow Schedule; application fees are nonrefundable and escrow deposits shall comply with Section 110-45C(8) and Section A112-110 of the Village Code. In the event an applicant fails to make the escrow payment required and/or fails to pay the full amount billed for professional review fees, the Planning Board shall adjourn any pending application and/or withhold final approval until such payment is made. In the event final approval has been granted and an outstanding balance for consulting fees remains unpaid, the Building Inspector shall not grant a Building Permit and/or a Certificate of Occupancy until payment of approved outstanding consulting fees has been made in full. The escrow account shall remain active throughout construction so as to cover any inspection related costs. After all pertinent charges have been paid in full, the Village shall refund the applicant any funds remaining on deposit.

Planning Board Review Process

Applications are reviewed by the Planning Board until the applicant has satisfactorily addressed comments provided by Planning Board and/or its consultants. The Planning Board is also responsible for conducting public hearings, if required by law or deemed necessary, and for satisfying the provisions of the State Environmental Quality Review Act (SEQRA). Many of the applications submitted to the Planning Board require outside agency approvals and the timing, regulations, and submission requirements associated with these approvals/permits are outside the control of the Planning Board. The process will be concluded via the passage of a resolution, with or without conditions. The duration of the process depends on the nature and complexity of the application and the applicant's timely and sufficient response to comments.

The Planning Board recommends that applicants are represented by a professional consultant, such as an engineer, architect, planner, attorney, etc. that is familiar with the type of application at hand and applicable Village, City, State and Federal laws and processes. Applicants and their agents shall not contact Planning Board members directly, all communication must be made via written submission to the Board or through Village staff.

During the review process, the application will be reviewed by the Planning Board, the Village's professional consultants (Village Planner, Village Engineer, Village Attorney) and the Building Inspector. Technical comments will be provided via memorandum to the Planning Board from the Village's consultants and the Building Inspector; these comments will be made available to the applicant. If necessary, the applicant and its agents may request a staff meeting with the Building Inspector, Village Planner, Village Engineer and/or Village Attorney to discuss technical comments that arise during the review process.

All Planning Board meeting agendas, meeting minutes, submitted application materials and review memorandums are posted to the Village's website in advance of the Planning Board meeting.

Planning Board meetings are videotaped and are broadcasted on a local television network and on the Village's Facebook page.

Types of Planning Board Approvals/Permits and Process for Each

Site Plan

Site Plans are required for all uses other than one-family residences; information pertaining to site plan requirements, objectives, and procedures can be found under Section 110-45 of the Village's Zoning Ordinance and Section 7-725-a of the NYS Village Law. The Site Plan review process generally consists of two (2) successive stages- (a) Conceptual Review and (b) Formal Review and subsequent decision.

In most instances, applicants will submit an application for Conceptual Review prior to submitting a Formal Application. The purpose of the Conceptual Review is to discuss the proposed plans, procedures and requirements so that the necessary subsequent steps may be taken with a clear understanding of the Planning Board requirements. This process also allows the Planning Board to provide its initial feedback and comments and gives the applicant an opportunity to ask questions. The Conceptual Review is generally confined to one (1) meeting and no vote, approval or denial is made by the Planning Board. Bypassing the Conceptual Review Process is permitted under certain circumstances upon the request of an applicant and subsequent approval by the Planning Board Chairman. Following the incorporation of comments and recommendations provided during the Conceptual Review process, the applicant is free to submit a Formal Site Plan Application to the Planning Board for continued review. Amendments to approved Site Plans follow the same process.

Subdivision/Lot Line Realignments

The creation of lots and the adjustment of lot lines requires subdivision plat approval in accordance with Chapter 94 of the Village Code and Section 7-725b through 7-732 of the NYS Village Law. The subdivision review and approval process generally consists of two (2) successive stages- (a) Preliminary Subdivision Plat Approval and (b) Final Subdivision Plat Approval. All subdivision plat applications require a public hearing, Westchester County Department of Health Approval, and filing with the Westchester County Clerk's Office.

Special Use Permit

A Special Use Permit is an authorization of a particular land use which is permitted by zoning, subject to requirements imposed to ensure that the proposed use is in harmony with applicable land use laws and will not adversely affect the neighborhood. Information pertaining to Special Use Permit requirements, objectives, and procedures can be found under Section 110-46 of the Village's Zoning Ordinance and Section 7-725-b of the NYS Village Law. A public hearing is required prior to the issuance of any Special Use Permit,

Change of Use Permit

A Change of Use Permit is required for the replacement of an existing use by a new use or a change in the nature or intensity of the existing use, but not including a change in ownership, tenancy, name or management or a change in product or service within the same use classification where the previous nature or intensity of the use, line of business or other function is substantially unchanged. A Change of Use Permit as issued by the Planning Board is required when the application does not meet one (1) or more of the thresholds listed under Section 110-38 of the Zoning Code provided for an "Administrative Change of Use Permit" as issued by the Building Inspector and Planning Board Chairman. Change of Use Permit requirements and procedures can be found under Section 110-38 of the Village's Zoning Ordinance.

Wetland Permit

A Wetland Permit is required when a regulated activity is proposed within jurisdictional wetlands and/or wetland buffer areas. The Planning Board is the approval authority when the application also requires Site Plan Approval, Subdivision Approval, or if the subject parcel is capable of being subdivided into conforming lots. Additional information concerning wetlands, jurisdiction, regulated activities, wetland permit applications and permitting can be found under Chapter 107 and Section 110-33.1B of the Village Code; all Wetland Permits as issued by the Planning Board require a public hearing.

Steep Slopes Permit

A Steep Slopes Permit is required when an application involves >100 s.f. of disturbance (in the aggregate) to any steep slope (≥15% slope) or to cut any tree with a diameter >4 inches (measured 1.5' above ground level) located on any steep slope, hilltop, or ridgeline. Construction activity is not permitted on slopes ≥25%, unless there is no viable alternative. For more information concerning Steep Slopes Permits, regulated activities, submission requirements, standards for approval, and permit procedures, please see Section 110-33.1A of the Zoning Code. The Planning Board is required to hold a public hearing on all Steep Slopes Permits.

What to Expect Following Approval

The owner and applicant shall be bound by the final approval of the Planning Board and all construction, development and use shall occur in accordance with the final approved plan(s) and any conditions contained within the Planning Board's approving resolution. The applicant will be provided with a copy of any draft resolution for its review prior to adoption.

Depending on the nature of the application, the approving resolution will likely include conditions that will need to be addressed within a specified period of time and will include conditions to be satisfied prior to the signing of plans, prior to the issuance of a Building Permit, prior to and following the issuance of a Certificate of Occupancy and, depending on the type of application, certain operational conditions.

Unless the approving resolution specifies different time periods for when construction must commence and be completed, construction must commence within six (6) months from the date of the resolution and be completed within 12 months from commencement of work. Applicants will be required to allow Village staff to inspect the project during construction and may be required to submit inspection reports, certifications, as-built surveys, etc. A Certificate of Occupancy will not be issued until there is compliance with the approving Resolution and approved plans. Temporary Certificates of Occupancy are allowed under certain circumstances but must be approved by the Planning Board prior to issuance.

The above information is intended to offer guidance but shall not be deemed to supersede or replace applicable Village, county or federal statutes, rules or regulations.

Application Number_____

VILLAGE OF MOUNT KISCO PLANNING BOARD APPLICATION

Type of Application (please check all that apply)

☒ Site Plan (Conceptual) ☒ Site Plan (Formal) ☒ Subdivision ☒ Special Use Permit

☒ Change of Use Permit ☒ Wetland Permit ☐ Steep Slopes Permit

For Conceptual Site Plan Applications, complete Page 1 only and provide signatures on Page 2

Name of Applicant (not agent): DISH Wireless LLC

Address: 3 ADP Boulevard, Roseland, NJ 07068

Phone Number: 973-436-4846 Email: hadisha.gordon@dish.com

Applicant's relationship to property: Lessee

* Application filed by DISH Wireless LLC Agent Crown Castle; Email: dpicnic@inrange-llc.com; Phone: 201-787-0218

Name of Property Owner (if different from above) Village/Town of Mount Kisco

Address: 104 Main Street, Mount Kisco, NY 12563

Phone Number: 914-864-0001 Email: _____

Name of Agent (Firm Name/Contact Person): Maximillan Mahalek, Esq., Cuddy & Feder, LLP

Address: 445 Hamilton Avenue, 14th Floor, White Plains, NY 10601

Phone Number: 914-761-1300 Email: mmahalek@cuddyfeder.com

Application Information

Project Name: DISH Wireless LLC - Collocation

Project Address/Location: 1 Mountain Avenue

Tax Parcel ID Number(s): 69.56-4-7.1

Project Description: Collocate DISH's wireless equipment at an existing wireless facility to install three antennas and accessory equipment.

Total parcel size (square feet and acres): 18,731 sq/.43 acres

Zoning District(s): CD Existing Use: Wireless Telecommunication Proposed Use: Wireless Telecommunication

Does the subject property have a Site Plan of Record? ☒ Yes ☐ No

Last approved use according to the last issued Certificate of Occupancy? Wireless Telecommunications

For Office Use Only

*Total Fee Paid: $*_____

*Initial Escrow Deposit: $*_____

Number of off-street parking spaces - Existing: 0 Proposed: 0

Number of newly created building lots (if applicable): N/A

Do any easement agreements, covenants or deed restrictions apply to this property? ☐ Yes ☑ No

If yes, please list these documents and attach copies N/A

Identify all other permits/approvals required:

Agency	Approval Required	Type of Permit
Village Board of Trustees	☐ Yes ☑ No	
Village Zoning Board of Appeals (ZBA)	☐ Yes ☑ No	
Village Architectural Review Board (ARB)	☐ Yes ☑ No	
Village Building Department	☑ Yes ☐ No	Building Permit
Village Department of Public Works (DPW)	☐ Yes ☑ No	
Westchester County Department of Health (WCDH)	☐ Yes ☑ No	
Westchester County Department of Public Works (WCDPW)	☐ Yes ☑ No	
NYC Department of Environmental Protection (NYCDEP)	☐ Yes ☑ No	
NYS Department of Environmental Conservation (NYSDEC)	☐ Yes ☑ No	
NYS Department of Transportation (NYSDOT)	☐ Yes ☑ No	
U.S. Army Corps of Engineers (ACOE)	☐ Yes ☑ No	
Other	☐ Yes ☑ No	

Total anticipated area of construction activity as defined under the most recent NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity: ☑ <5,000 s.f. ☐ ≥5,000 s.f. - <1 acre ☐ >1 acre

Will the project disturb any Village regulated wetlands or wetland buffer areas? ☐ Yes ☑ No

If yes, quantify area of disturbance: _____ s.f. wetland disturbance; _____ s.f. of wetland buffer disturbance

Will proposed action disturb any "steep slopes" (≥15 percent)? ☐ Yes ☑ No Area disturbed: _____ s.f.

Will proposed action disturb any "very steep slopes" (≥25 percent)? ☐ Yes ☑ No Area disturbed: _____ s.f.

Are any trees with a diameter of ≥4-inches proposed to be removed? ☐ Yes ☑ No Quantity: _____

If yes, will any trees be removed from steep slopes? ☐ Yes ☐ No Quantity: _____

Is the site located within a Flood Hazard Area as defined by FEMA? ☐ Yes ☑ No

---

I hereby certify that the above information is factually correct to the best of my knowledge. By applying for the permit/approval(s) herein, the below individuals expressly authorize Village Officials and Planning Board members access to the subject property for schedule site visits and inspections.

Applicant: Derek Picinic agent obo Crown Castle - Dish Network LLC Derek A Picinic 05/31/2023

(print name) **(signature)** **(date)**

Owner: _____

(print name) **(signature)** **(date)**

VILLAGE OF MOUNT KISCO PLANNING BOARD

104 Main Street
Mount Kisco, New York 10549
914-864-0022
www.mountkisco.org

PLANNING BOARD SUBMISSION CHECKLIST

PROJECT NAME: DISH Wireless LLC

Application materials (required for all applications)

- [x] *Planning Board application form completed and signed by all applicable parties
- [x] Unless otherwise instructed, a completed Short Environmental Assessment Form (EAF) as available from the NYSDEC website
- [x] *Application fee and initial escrow deposit as identified by the Planning Board Secretary
- [x] *Most recent property deed (See Property Detail Sheet - Owned by Village/Town)
- [x] *Survey of property – Level of detail required to be determined by the Planning Board, Building Inspector and/or the Planning Board's consultants
- [ ] *Previously approved Planning Board Site Plan of Record and Planning Board Resolutions, available through the Building Department, if applicable
- [x] *Identification of any known zoning variances (previously granted or required/proposed)
- [x] *Completed Coverage Calculations Worksheet
- [ ] *Business plan providing a detailed description of the proposed use/operation
- [ ] Floor plans of the existing and proposed condition as prepared by a NYS licensed architect or engineer
- [ ] Architectural elevations prepared by a NYS licensed architect or engineer, if applicable
- [ ] *The applicant shall provide a digital submission including PDFs of all forms, applications, documents, reports, and plans to the Planning Board Secretary on a flash drive or CD-ROM

(*) Indicates that this item is required for the first submission, including Conceptual Site Plan Applications

Items to be included on Site Plans and other plans presented to the Planning Board (Subdivisions, Special Use Permits, Change of Use Permits, Wetland Permits, and Steep Slope Permits, as determined applicable)

General information and Existing Conditions

- [x] *Location of project by street address
- [x] *The section, block and lot number(s) of the subject property taken from the latest assessment roll
- [x] *A location map identifying the location of the subject property in context to the surrounding area
- [x] *Name and mailing address of the owner of record and the applicant, if different
- [x] *Name and mailing address of the person, firm, or organization preparing the plan
- [x] *Date of the plan preparation/revision - provide common revision dates on each sheet
- [x] *North arrow; scale bar
- [x] *Unless otherwise approved, plans shall be prepared as a scale of 1 inch = 30 feet
- [ ] *Zoning district boundary lines
- [ ] *Zoning setback lines and dimensions
- [ ] Landscape buffer setback lines and dimensions
- [ ] Ownership information for all adjacent parcels taken from the latest assessment roll
- [x] The location, width and purpose of all existing and proposed easements, covenants, reservations and areas dedicated to public use within or adjacent to the property
- [ ] Existing topography as illustrated by use of contour lines with intervals of two (2) feet or less, referred to a datum satisfactory to the Village Engineer
- [ ] Adjacent structures and uses within fifty (50) feet of the subject property
- [x] The location, names and existing widths of adjacent streets, including curbs
- [x] *The location and limits of all existing improvements including buildings, structures, paved areas, gravel areas, vehicular and pedestrian access, driveways, parking stalls,

☐ loading areas, sidewalks, exterior lighting, walls, fencing, and landscaping on and adjacent to the subject property

☐ Locations, dimensions, grades and flow directions of existing sewers, drainage features, culverts, and waterlines, as well as other underground and aboveground utilities within and adjacent to the subject property

Demolition and Removals

☐ Clearly identify any existing improvements or structures which are proposed to be removed, including utilities

Environmental Features

☐ If the subject property contains wetlands or surface water features or will require a wetland permit, wetlands and watercourses that are jurisdictional to the Village of Mount Kisco shall be delineated by a wetland scientist, shall be survey located, and shall be shown on a plan. A wetland delineation report shall be provided prepared to the satisfaction of the Village Wetland Consultant

☐ If disturbance to steep slopes is proposed, provide a calculation of disturbance within each applicable slope category and demonstrate compliance with Section 110-33.1A of the Zoning Code. The plan shall illustrate via shading, the portions of the site comprised of steep slopes (distinguish between slopes categories)

☐ If tree removal is proposed, trees with a diameter $\geq$ 4 inches as measured 1.5 feet above grade shall be survey located and shown on a plan (location, diameter, specie type). Identify all trees to be removed or preserved

☐ Mitigation plan (associated with wetland permits and steep slope permits)

☐ The location and extent of wooded areas, rock outcrops and other significant environmental features

☐ The location, boundary and elevation of any FEMA Flood Hazard Areas, if applicable

Proposed Development

☐ For subdivisions and/or lot line realignments, provide a subdivision plat in compliance with Chapter 94 of the Village Code

☐ *Bulk zoning table comparing the existing and proposed conditions to the requirements of the underlying zoning district(s)

☐ Average grade calculation to determine proposed building height, if applicable

(*) Indicates that this item is required for the first submission, including Conceptual Site Plan Applications

- [ ] *Off-street parking and loading calculations comparing the existing and proposed condition to the requirements listed under Sections 110-28 and 110-29 of the Zoning Code
- [ ] Limits of construction activity line with area calculation (square feet)
- [ ] *The location and limits of all proposed improvements including buildings, structures, paved areas, vehicular and pedestrian access, driveways, parking stalls, loading areas, sidewalks, exterior lighting, walls, fencing, and landscaping on and adjacent to the subject property. Profiles and cross-sections shall be provided, as necessary
- [ ] Locations, dimensions, grades and flow directions of all proposed utilities incldung sanitary and storm sewers, drainage features, culverts, and waterlines, as well as other underground and aboveground utilities within and adjacent to the subject property. Profiles and cross-sections shall be provided, as necessary
- [ ] Preparation of a Stormwater Pollution Prevention Plan (SWPPP) in accordance with NYSDEC standards and requirements, as determined necessary by the Village Engineer, including drainage calculations
- [ ] Construction details, profiles and sections, as determined necessary
- [ ] Grading plan, indicating how proposed new grades will meet existing grades
- [ ] Location and cross-section of any new wall
- [ ] The location and plans for any proposed signage
- [ ] Landscaping plan, including location, size, specie type, and quantity of proposed plant material, prepared by a NYS registered landscape architect
- [ ] A lighting plan prepared to demonstrate compliance with 110-32 of the Zoning Code
- [ ] The location, limits and description of any proposed easements or covenants
- [ ] Any contemplated public improvements on adjoining properties
- [ ] *Any additional information required under the Village Code or as determined necessary by the Planning Board, Building Inspector, or by the Planning Board's consultants

<u>Supplementary Regulations</u>

- [ ] The applicant shall determine/demonstrate compliance with the Article V of the Zoning Code, including supplementary use and development regulations, as applicable

(*) Indicates that this item is required for the first submission, including Conceptual Site Plan Applications

Upon findings of the Planning Board that due to special conditions particular to the subject property, certain of the information identified above is not necessary or appropriate or that strict compliance with said requirements may cause extraordinary or unnecessary hardships, the Planning Board may vary or waive the provision of such information, provided that such waiver will not have detrimental effects on public health, safety or general welfare or have the effect of nullifying the intent and purpose of the application, Official Map, Village Comprehensive Plan or Village Code

This checklist is provided as a guide. The Planning Board may require additional information as determined necessary.

The undersigned agrees that, to the best of his or her knowledge, the submission materials have been prepared in accordance with this checklist.

Name of Design Professional: Stephen A Bray

Signature of Design Professional: _____

Date: May 31, 2023

(*) Indicates that this item is required for the first submission, including Conceptual Site Plan Applications

VILLAGE OF MOUNT KISCO
104 Main Street
Mount Kisco, New York 10549
www.mountkisco.org

COVERAGE CALCULATION WORKSHEET

Project Name: DISH Wireless LLC - Collocation

Tax Parcel ID Number(s): 69.56-4-7.1

Relevant definitions from the Village's Zoning Code are provided on the following page

Building Coverage – Enter "0" below if category is not applicable

1. Total lot area (s.f.) = 1. 18,857 s.f.
2. Maximum permitted Building Coverage (s.f.) = 2. 3,771.4 s.f.
3. Portion of lot covered by the principal building:
   _____s.f. (existing) + _____s.f. (proposed) = 3. _____s.f.
4. Portion of lot covered by accessory building(s):
   _____s.f. (existing) + _____s.f. (proposed) = 4. _____s.f.
5. Portion of lot covered by other structures:
   2,204.8 s.f. (existing) + 35 s.f. (proposed) = 5. 2,239.8 s.f.
6. Total Building Coverage (add Lines #3 through #5) = 6. 2,239.8 s.f.

Development Coverage – Enter "0" below if category is not applicable

1. Total lot area = 1. _____s.f.
2. Maximum permitted Development Coverage = 2. _____s.f.
3. Total Building Coverage from Line #6 Above = 3. _____s.f.
4. Portion of lot covered by asphalt, concrete, gravel, or similar materials
   _____ s.f. (existing) + _____ s.f. (proposed) = 4. _____s.f.
5. Portion of lot covered by other improved surfaces =
   _____ s.f. (existing) + _____ s.f. (proposed) = 5. _____s.f.
6. Total Development Coverage (add Lines #3 through #5) = 6. _____s.f.

If Line #6 is less than or equal to Line #2, the proposed action is zoning compliant; if Line #6 is greater than Line #2, the proposed action is noncompliant

Exhibit B

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:
DISH Wireless LLC

Project Location (describe, and attach a location map):
1 Mountain Avenue, Mount Kisco, NY 12563

Brief Description of Proposed Action:
Colloate DISH's wireless equipment at an existing wireless facility including the installation of three antennas and accessory equipment.

Name of Applicant or Sponsor:	Telephone: 973-436-4846
DISH Wireless LLC	E-Mail: hadisha.gordon@dish.com

Address:
3ADP Boulevard

City/PO:	State:	Zip Code:
Roseland	NJ	07068

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Building Department, Planning Board	☐	☑

3. a. Total acreage of the site of the proposed action? .43 acres
   b. Total acreage to be physically disturbed? .01 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? .43 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
   ☑ Forest ☐ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____ _____	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ _____	☑	☐

	NO	YES
12. a. 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?	☑	☐
b. 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?	☑	☐

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☑	☐
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☐ Agricultural/grasslands ☐ Early mid-successional

☐ Wetland ☐ Urban ☑ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☑	☐
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☐	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☐
If Yes, briefly describe: _____		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment: _____		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	☑	☐
If Yes, describe: _____		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	☐	☑
If Yes, describe: Auto-generated answer. No ground disturbance.		

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

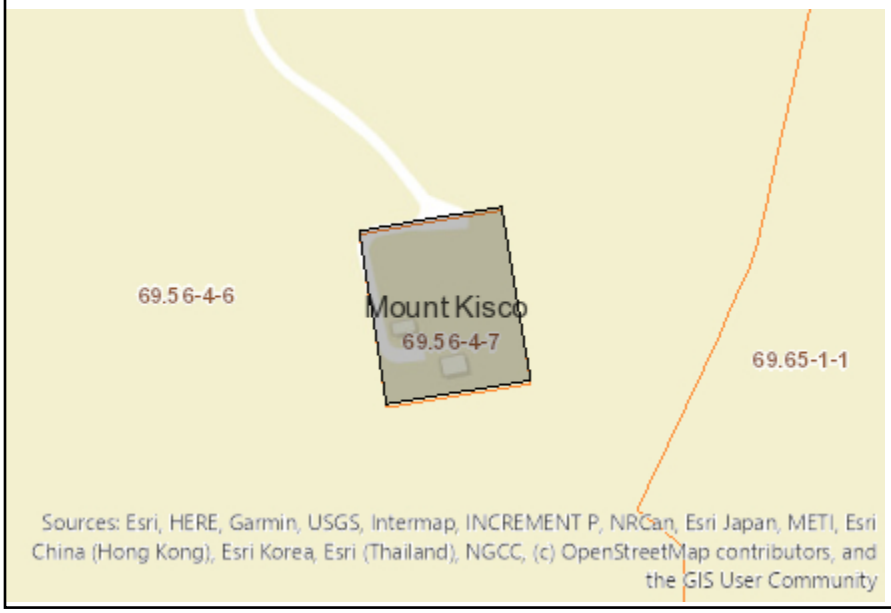
Applicant/sponsor/name: Maximillian R. Mahalek, Esq., Cuddy & Feder LLP Date: July 30, 2023

Signature: _____ Title: Attorney for Applicant

PRINT FORM

EAF Mapper Summary Report

Wednesday, June 7, 2023 12:57 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.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	No
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	Yes

Exhibit C

Date: **February 10, 2023**

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject:	**Structural Analysis Report**	
Carrier Designation:	***DISH Network* Co-Locate**	
	Site Number:	NJJER01241A
	Site Name:	NY-CCI-T-843210
Crown Castle Designation:	**BU Number:**	843210
	Site Name:	MOUNT KISCO
	JDE Job Number:	741170
	Work Order Number:	2203134
	Order Number:	645296 Rev. 0
Engineering Firm Designation:	**Crown Castle Project Number:**	2203134
Site Data:	**1 MOUNTAIN AVE, MOUNT KISCO, WESTCHESTER County, NY**	
	Latitude *41° 12' 51.94"*, Longitude *-73° 43' 46.22"*	
	109 Foot - Monopole Tower	

Crown Castle is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis has been performed in accordance with the 2020 New York State Uniform Code based upon an ultimate 3-second gust wind speed of 129 mph. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Kenneth Sukitch

Respectfully submitted by:

Rohit Soni, P.E.
Senior Project Engineer

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 109 ft Monopole tower designed by VALMONT.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	129 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
76.0	76.0	3	commscope	FFVV-65B-R2 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
107.0	119.0	1	andrew	DB810E-PS	1	1/2
		1	combilent	CP00732	1	7/8
	117.0	1	dbspectra	DS7A08F36U-N	1	1-5/8
	107.0	2	rosenberger	C10-114-006 Stand Off		
103.0	104.0	3	rfs celwave	APXVFWW18X-C-NA20 w/ Mount Pipe	12	1-5/8
	103.0	4	sitepro 1	RMV5		
	101.0	6	rfs celwave	ATMPP1412D-1CWA		
92.0	95.0	3	raycap	RC3DC-3315-PF-48	3	1-1/4
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
	94.0	3	commscope	NHH-45A-R2B w/ Mount Pipe		
		1	sitepro 1	UQB4 Quad Universal Ring Mount		
		3	sitepro 1	RMV5-xxx 5' Triple T-Arm		
	93.0	3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	92.0	3	samsung telecommunications	RT4401-48A		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
84.0	86.0	3	alcatel lucent	B66A RRH4X45-4R	6 6 6	7/8 3/4 3/8
		3	nokia	AHCA		
		3	nokia	AHLBA		
		3	raycap	DC6-48-60-18-8F		
	85.0	3	alcatel lucent	B25 RRH4x30-4R		
		3	alcatel lucent	RRH4X25-WCS		
		9	commscope	NNHH-65A-R4 w/ Mount Pipe		
	84.0	1	tower mounts	Platform Mount [LP 303-1_HR-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	8837250	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	8837165	CCISITES
4-TOWER MANUFACTURER DRAWINGS	8546921	CCISITES

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

1) Tower and structures were maintained in accordance with the TIA-222 Standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	109 - 77	Pole	TP36.06x28.9x0.2188	1	-10.47	1480.85	11.5	Pass
L2	77 - 50	Pole	TP41.67x34.5038x0.3125	2	-18.91	2441.29	20.8	Pass
L3	50 - 23.75	Pole	TP46.93x39.7573x0.375	3	-26.01	3297.17	24.9	Pass
L4	23.75 - 0	Pole	TP51.5x44.723x0.4375	4	-36.77	4355.44	27.0	Pass
							Summary	
						Pole (L4)	27.0	Pass
						Rating =	27.0	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	24.5	Pass
1	Base Plate		23.5	Pass
1	Base Foundation (Structure)		14.4	Pass
1	Base Foundation (Soil Interaction)		47.2	Pass

Structure Rating (max from all components) =	**47.2%**

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

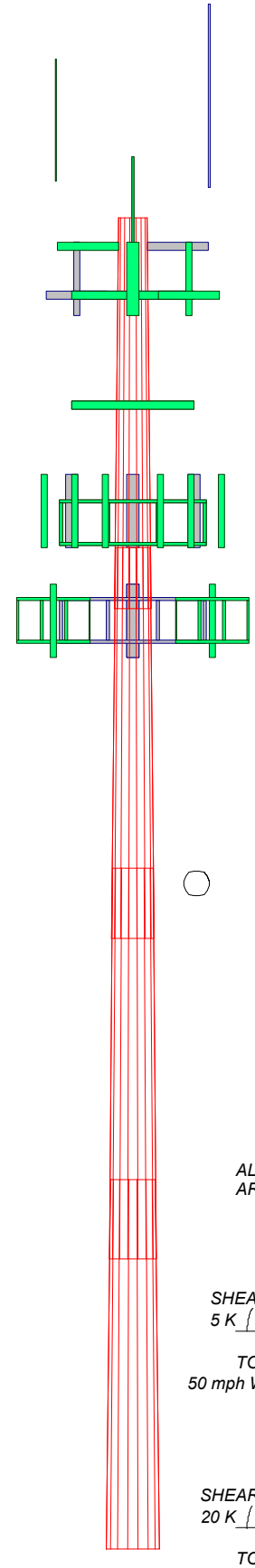
TNXTOWER OUTPUT

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Westchester County, New York.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 129 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category IV.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 27%



ALL REACTIONS ARE FACTORED

AXIAL 56 K
SHEAR 5 K
MOMENT 373 kip-ft
TORQUE 0 kip-ft
50 mph WIND - 1.0000 in ICE

AXIAL 37 K
SHEAR 20 K
MOMENT 1435 kip-ft
TORQUE 1 kip-ft
REACTIONS - 129 mph WIND

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	32.00	18	0.2188	5.00	28.9000	36.0600	A572-65	2.4
2	32.00	18	0.3125	5.75	34.5037	41.6700		4.1
3	32.00	18	0.3750	6.50	39.7573	46.9300		5.6
4	30.25	18	0.4375		44.7230	51.5000		6.8
								18.9

CROWN CASTLE
The Pathway to Possible

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
Phone: (724) 416-2000
FAX:

Job: ***BU# 843210***			
Project:			
Client: Crown Castle	Drawn by: KSukitch		App'd:
Code: TIA-222-H	Date: 02/10/23		Scale: NTS
Path: C:\Work Area\843210\WO 2203134 - SA\Prod\843210.eri			Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

- Tower is located in Westchester County, New York.
- Tower base elevation above sea level: 592.00 ft.
- Basic wind speed of 129 mph.
- Risk Category IV.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 1.0$, $K_{es}(t_i) = 1.0$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg	√	Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	109.00-77.00	32.00	5.00	18	28.9000	36.0600	0.2188	0.8750	A572-65 (65 ksi)
L2	77.00-50.00	32.00	5.75	18	34.5037	41.6700	0.3125	1.2500	A572-65 (65 ksi)
L3	50.00-23.75	32.00	6.50	18	39.7573	46.9300	0.3750	1.5000	A572-65 (65 ksi)
L4	23.75-0.00	30.25		18	44.7230	51.5000	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	29.3121	19.9138	2069.6012	10.1818	14.6812	140.9695	4141.9256	9.9588	4.7014	21.492
	36.5825	24.8850	4038.7026	12.7236	18.3185	220.4715	8082.7195	12.4449	5.9616	27.253
L2	36.1248	33.9134	5008.8650	12.1379	17.5279	285.7652	10024.3209	16.9599	5.5227	17.673
	42.2646	41.0215	8864.5609	14.6819	21.1684	418.7647	17740.7861	20.5146	6.7839	21.709
L3	41.6215	46.8748	9185.0039	13.9807	20.1967	454.7771	18382.0937	23.4419	6.3373	16.899
	47.5961	55.4121	15173.1109	16.5270	23.8404	636.4442	30366.1871	27.7113	7.5997	20.266
L4	46.8242	61.4960	15237.3171	15.7214	22.7193	670.6770	30494.6839	30.7539	7.1013	16.231
	52.2270	70.9067	23357.6234	18.1272	26.1620	892.8073	46745.9813	35.4601	8.2940	18.958

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 109.00-77.00				1	1	1			
L2 77.00-50.00				1	1	1			
L3 50.00-23.75				1	1	1			
L4 23.75-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
*** CU12PSM9P6XXX(1-1/2) **	A	No	Surface Ar (CaAa)	76.00 - 0.00	1	1	0.400 0.400	1.6000		2.35

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF4-50A(1/2)	C	No	No	Inside Pole	107.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
LDF5-50A(7/8)	C	No	No	Inside Pole	107.00 - 0.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
LDF7-50A(1-5/8)	C	No	No	Inside Pole	107.00 - 0.00	1	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
***									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	103.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
***									
LDF5-50A(7/8)	B	No	No	Inside Pole	94.00 - 0.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
HB114-13U6S12-xxxF(1-1/4)	B	No	No	Inside Pole	94.00 - 0.00	3	No Ice	0.00	1.51
							1/2" Ice	0.00	1.51
							1" Ice	0.00	1.51
***									
LDF5-50A(7/8)	C	No	No	Inside Pole	84.00 - 0.00	6	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	84.00 - 0.00	6	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
FB-L98-002-XXX(3/8)	C	No	No	Inside Pole	84.00 - 0.00	6	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
2" Rigid Conduit	C	No	No	Inside Pole	84.00 - 0.00	1	No Ice	0.00	2.80
							1/2" Ice	0.00	2.80
							1" Ice	0.00	2.80
**									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	109.00-77.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.09
		C	0.000	0.000	0.000	0.000	0.36
L2	77.00-50.00	A	0.000	0.000	4.160	0.000	0.06
		B	0.000	0.000	0.000	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.53
L3	50.00-23.75	A	0.000	0.000	4.200	0.000	0.06
		B	0.000	0.000	0.000	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.52
L4	23.75-0.00	A	0.000	0.000	3.800	0.000	0.06
		B	0.000	0.000	0.000	0.000	0.12
		C	0.000	0.000	0.000	0.000	0.47

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	109.00-77.00	A	1.386	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.09

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.000	0.000	0.36
L2	77.00-50.00	A	1.334	0.000	0.000	11.367	0.000	0.19
		B		0.000	0.000	0.000	0.000	0.14
		C		0.000	0.000	0.000	0.000	0.53
L3	50.00-23.75	A	1.263	0.000	0.000	11.203	0.000	0.19
		B		0.000	0.000	0.000	0.000	0.14
		C		0.000	0.000	0.000	0.000	0.52
L4	23.75-0.00	A	1.126	0.000	0.000	9.799	0.000	0.16
		B		0.000	0.000	0.000	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.47

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	109.00-77.00	0.0000	0.0000	0.0000	0.0000
L2	77.00-50.00	-0.2547	-1.1981	-0.3834	-1.8036
L3	50.00-23.75	-0.2639	-1.2414	-0.3935	-1.8511
L4	23.75-0.00	-0.2644	-1.2440	-0.3870	-1.8206

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	17	CU12PSM9P6XXX(1-1/2)	50.00 - 76.00	1.0000	1.0000
L3	17	CU12PSM9P6XXX(1-1/2)	23.75 - 50.00	1.0000	1.0000
L4	17	CU12PSM9P6XXX(1-1/2)	0.00 - 23.75	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft
Lightning Rod 5/8"x10' ** 107 **	C	None		0.0000	109.00
DB810E-PS	B	From Face	6.00 0.00 12.00	0.0000	107.00
DS7A08F36U-N	C	From Leg	6.00 0.00 10.00	0.0000	107.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
CP00732	B	From Face	6.00 0.00 12.00	0.0000	107.00
C10-114-006 Stand Off	B	From Face	3.00 0.00 0.00	0.0000	107.00
C10-114-006 Stand Off	C	From Leg	3.00 0.00 0.00	0.0000	107.00
6'x2" Mount Pipe	B	From Face	6.00 0.00 0.00	0.0000	107.00
6'x2" Mount Pipe	C	From Leg	6.00 0.00 0.00	0.0000	107.00
** 103 ** APXVFWW18X-C-NA20 w/ Mount Pipe	A	From Face	4.00 0.00 1.00	0.0000	103.00
APXVFWW18X-C-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	103.00
APXVFWW18X-C-NA20 w/ Mount Pipe	C	From Face	4.00 0.00 1.00	0.0000	103.00
(2) ATMPP1412D-1CWA	A	From Face	4.00 0.00 -2.00	0.0000	103.00
(2) ATMPP1412D-1CWA	B	From Leg	4.00 0.00 -2.00	0.0000	103.00
(2) ATMPP1412D-1CWA	C	From Face	4.00 0.00 -2.00	0.0000	103.00
Site Pro 1 RMV5	A	From Face	4.00 0.00 0.00	0.0000	103.00
Site Pro 1 RMV5	A	From Leg	4.00 0.00 0.00	0.0000	103.00
Site Pro 1 RMV5	B	From Leg	4.00 0.00 0.00	0.0000	103.00
Site Pro 1 RMV5	C	From Face	4.00 0.00 0.00	0.0000	103.00
8' x 2" Mount Pipe	A	From Face	4.00 0.00 0.00	0.0000	103.00
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	103.00
8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	103.00
8' x 2" Mount Pipe	C	From Face	4.00 0.00 0.00	0.0000	103.00
** 92 ** NHH-45A-R2B w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	92.00
NHH-45A-R2B w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	92.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
NHH-45A-R2B w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	92.00
MT6407-77A w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	92.00
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	92.00
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	92.00
RFV01U-D1A	A	From Leg	4.00 0.00 1.00	0.0000	92.00
RFV01U-D1A	B	From Leg	4.00 0.00 1.00	0.0000	92.00
RFV01U-D1A	C	From Leg	4.00 0.00 1.00	0.0000	92.00
(3) RC3DC-3315-PF-48	A	From Leg	4.00 0.00 3.00	0.0000	92.00
RFV01U-D2A	A	From Leg	4.00 0.00 1.00	0.0000	92.00
RFV01U-D2A	B	From Leg	4.00 0.00 1.00	0.0000	92.00
RFV01U-D2A	C	From Leg	4.00 0.00 1.00	0.0000	92.00
RT4401-48A	A	From Leg	4.00 0.00 0.00	0.0000	92.00
RT4401-48A	B	From Leg	4.00 0.00 0.00	0.0000	92.00
RT4401-48A	C	From Leg	4.00 0.00 0.00	0.0000	92.00
Site Pro 1 RMV5-xxx 5' Triple T-Arm (3 Sectors)	C	None		0.0000	94.00
Side Arm Mount [SO 102-3]	C	None		0.0000	94.00
Side Arm Mount [SO 102-1]	C	From Leg	0.50 0.00 0.00	0.0000	94.00
** 84 **					
(3) NNHH-65A-R4 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	84.00
(3) NNHH-65A-R4 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	84.00
(3) NNHH-65A-R4 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	84.00
AHCA	A	From Leg	4.00 0.00 2.00	0.0000	84.00
AHCA	B	From Leg	4.00 0.00 2.00	0.0000	84.00
AHCA	C	From Leg	4.00 0.00	0.0000	84.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
DC6-48-60-18-8F	A	From Leg	2.00 2.00 0.00	0.0000	84.00
DC6-48-60-18-8F	B	From Leg	2.00 2.00 0.00	0.0000	84.00
DC6-48-60-18-8F	C	From Leg	2.00 2.00 0.00	0.0000	84.00
RRH4X25-WCS	A	From Leg	2.00 4.00 0.00	0.0000	84.00
RRH4X25-WCS	B	From Leg	1.00 4.00 0.00	0.0000	84.00
RRH4X25-WCS	C	From Leg	1.00 4.00 0.00	0.0000	84.00
B25 RRH4x30-4R	A	From Leg	1.00 4.00 0.00	0.0000	84.00
B25 RRH4x30-4R	B	From Leg	1.00 4.00 0.00	0.0000	84.00
B25 RRH4x30-4R	C	From Leg	1.00 4.00 0.00	0.0000	84.00
B66A RRH4X45-4R	A	From Leg	1.00 4.00 0.00	0.0000	84.00
B66A RRH4X45-4R	B	From Leg	2.00 4.00 0.00	0.0000	84.00
B66A RRH4X45-4R	C	From Leg	2.00 4.00 0.00	0.0000	84.00
AHLBA	A	From Leg	2.00 4.00 0.00	0.0000	84.00
AHLBA	B	From Leg	2.00 4.00 0.00	0.0000	84.00
AHLBA	C	From Leg	2.00 4.00 0.00	0.0000	84.00
Platform Mount [LP 303-1_HR-1] ** 76 **	C	None	2.00	0.0000	84.00
FFVV-65B-R2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	76.00
FFVV-65B-R2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	76.00
FFVV-65B-R2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	76.00
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	76.00
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	76.00
TA08025-B604	C	From Leg	4.00 0.00	0.0000	76.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft
TA08025-B605	A	From Leg	0.00 4.00 0.00	0.0000	76.00
TA08025-B605	B	From Leg	0.00 4.00 0.00	0.0000	76.00
TA08025-B605	C	From Leg	0.00 4.00 0.00	0.0000	76.00
RDIDC-9181-PF-48	B	From Leg	0.00 4.00 0.00	0.0000	76.00
Commscope MC-PK8-DSH	C	None	0.00	0.0000	76.00
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	76.00
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	76.00
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	76.00
**					

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp

Comb. No.	Description
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	109 - 77	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-20.50	-0.32	0.71
			Max. Mx	8	-10.48	-117.56	-1.89
			Max. My	2	-10.47	1.88	120.25
			Max. Vy	8	9.75	-117.56	-1.89
			Max. Vx	2	-9.92	1.88	120.25
			Max. Torque	22			-1.06
L2	77 - 50	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.53	-0.48	0.62
			Max. Mx	8	-18.92	-457.98	-4.61
			Max. My	2	-18.91	4.56	464.99
			Max. Vy	8	14.74	-457.98	-4.61
			Max. Vx	2	-14.91	4.56	464.99
			Max. Torque	22			-1.06
L3	50 - 23.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.85	-0.17	0.80
			Max. Mx	8	-26.01	-862.39	-7.24
			Max. My	2	-26.01	7.36	873.74
			Max. Vy	20	-16.93	862.38	7.50
			Max. Vx	2	-17.09	7.36	873.74
			Max. Torque	22			-1.06
L4	23.75 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.16	0.23	1.03
			Max. Mx	20	-36.77	1413.86	10.75
			Max. My	2	-36.77	10.68	1430.04
			Max. Vy	20	-19.51	1413.86	10.75
			Max. Vx	2	-19.67	10.68	1430.04
			Max. Torque	22			-1.06

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	56.16	0.00	0.00
	Max. H_x	20	36.77	19.50	0.10
	Max. H_z	2	36.77	0.10	19.66

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. M_x	2	1430.04	0.10	19.66
	Max. M_z	8	1413.56	-19.50	-0.10
	Max. Torsion	10	1.06	-16.94	-9.92
	Min. Vert	7	27.58	-16.83	9.74
	Min. H_x	8	36.77	-19.50	-0.10
	Min. H_z	14	36.77	-0.10	-19.66
	Min. M_x	14	-1429.60	-0.10	-19.66
	Min. M_z	20	-1413.86	19.50	0.10
	Min. Torsion	22	-1.06	16.94	9.92

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	30.64	0.00	0.00	-0.18	0.12	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	36.77	-0.10	-19.66	-1430.04	10.68	0.50
0.9 Dead+1.0 Wind 0 deg - No Ice	27.58	-0.10	-19.66	-1424.82	10.60	0.50
1.2 Dead+1.0 Wind 30 deg - No Ice	36.77	9.66	-16.97	-1233.22	-697.59	-0.04
0.9 Dead+1.0 Wind 30 deg - No Ice	27.58	9.66	-16.97	-1228.71	-695.11	-0.04
1.2 Dead+1.0 Wind 60 deg - No Ice	36.77	16.83	-9.74	-706.01	-1218.90	-0.57
0.9 Dead+1.0 Wind 60 deg - No Ice	27.58	16.83	-9.74	-703.41	-1214.54	-0.56
1.2 Dead+1.0 Wind 90 deg - No Ice	36.77	19.50	0.10	10.31	-1413.56	-0.94
0.9 Dead+1.0 Wind 90 deg - No Ice	27.58	19.50	0.10	10.32	-1408.51	-0.93
1.2 Dead+1.0 Wind 120 deg - No Ice	36.77	16.94	9.92	723.81	-1229.43	-1.06
0.9 Dead+1.0 Wind 120 deg - No Ice	27.58	16.94	9.92	721.25	-1225.03	-1.05
1.2 Dead+1.0 Wind 150 deg - No Ice	36.77	9.84	17.08	1243.30	-715.83	-0.89
0.9 Dead+1.0 Wind 150 deg - No Ice	27.58	9.84	17.08	1238.87	-713.28	-0.89
1.2 Dead+1.0 Wind 180 deg - No Ice	36.77	0.10	19.66	1429.60	-10.38	-0.50
0.9 Dead+1.0 Wind 180 deg - No Ice	27.58	0.10	19.66	1424.49	-10.38	-0.50
1.2 Dead+1.0 Wind 210 deg - No Ice	36.77	-9.66	16.97	1232.78	697.89	0.04
0.9 Dead+1.0 Wind 210 deg - No Ice	27.58	-9.66	16.97	1228.38	695.34	0.03
1.2 Dead+1.0 Wind 240 deg - No Ice	36.77	-16.83	9.74	705.57	1219.20	0.56
0.9 Dead+1.0 Wind 240 deg - No Ice	27.58	-16.83	9.74	703.08	1214.77	0.56
1.2 Dead+1.0 Wind 270 deg - No Ice	36.77	-19.50	-0.10	-10.75	1413.86	0.94
0.9 Dead+1.0 Wind 270 deg - No Ice	27.58	-19.50	-0.10	-10.65	1408.73	0.93
1.2 Dead+1.0 Wind 300 deg - No Ice	36.77	-16.94	-9.92	-724.25	1229.72	1.06
0.9 Dead+1.0 Wind 300 deg - No Ice	27.58	-16.94	-9.92	-721.57	1225.25	1.06
1.2 Dead+1.0 Wind 330 deg - No Ice	36.77	-9.84	-17.08	-1243.74	716.12	0.90
0.9 Dead+1.0 Wind 330 deg - No Ice	27.58	-9.84	-17.08	-1239.20	713.50	0.90
1.2 Dead+1.0 Ice+1.0 Temp	56.16	0.00	0.00	-1.03	0.23	0.00

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	56.16	-0.03	-5.10	-372.08	2.93	0.15
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	56.16	2.50	-4.40	-321.02	-179.82	-0.05
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	56.16	4.35	-2.53	-184.23	-314.33	-0.24
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	56.16	5.04	0.03	1.65	-364.56	-0.36
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	56.16	4.37	2.57	186.79	-317.04	-0.38
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	56.16	2.54	4.43	321.60	-184.52	-0.31
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	56.16	0.03	5.10	369.96	-2.49	-0.15
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	56.16	-2.50	4.40	318.89	180.26	0.05
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	56.16	-4.35	2.53	182.10	314.77	0.23
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	56.16	-5.04	-0.03	-3.77	364.99	0.36
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	56.16	-4.37	-2.57	-188.92	317.48	0.38
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	56.16	-2.54	-4.43	-323.73	184.95	0.31
Dead+Wind 0 deg - Service	30.64	-0.02	-3.81	-276.59	2.16	0.10
Dead+Wind 30 deg - Service	30.64	1.87	-3.29	-238.54	-134.76	-0.01
Dead+Wind 60 deg - Service	30.64	3.26	-1.89	-136.63	-235.54	-0.11
Dead+Wind 90 deg - Service	30.64	3.78	0.02	1.85	-273.17	-0.18
Dead+Wind 120 deg - Service	30.64	3.28	1.92	139.78	-237.58	-0.20
Dead+Wind 150 deg - Service	30.64	1.91	3.31	240.21	-138.29	-0.17
Dead+Wind 180 deg - Service	30.64	0.02	3.81	276.23	-1.91	-0.10
Dead+Wind 210 deg - Service	30.64	-1.87	3.29	238.18	135.01	0.01
Dead+Wind 240 deg - Service	30.64	-3.26	1.89	136.26	235.79	0.11
Dead+Wind 270 deg - Service	30.64	-3.78	-0.02	-2.22	273.42	0.18
Dead+Wind 300 deg - Service	30.64	-3.28	-1.92	-140.15	237.82	0.20
Dead+Wind 330 deg - Service	30.64	-1.91	-3.31	-240.58	138.53	0.17

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-30.64	0.00	0.00	30.64	0.00	0.000%
2	-0.10	-36.77	-19.66	0.10	36.77	19.66	0.000%
3	-0.10	-27.58	-19.66	0.10	27.58	19.66	0.000%
4	9.66	-36.77	-16.97	-9.66	36.77	16.97	0.000%
5	9.66	-27.58	-16.97	-9.66	27.58	16.97	0.000%
6	16.83	-36.77	-9.74	-16.83	36.77	9.74	0.000%
7	16.83	-27.58	-9.74	-16.83	27.58	9.74	0.000%
8	19.50	-36.77	0.10	-19.50	36.77	-0.10	0.000%
9	19.50	-27.58	0.10	-19.50	27.58	-0.10	0.000%
10	16.94	-36.77	9.92	-16.94	36.77	-9.92	0.000%
11	16.94	-27.58	9.92	-16.94	27.58	-9.92	0.000%
12	9.84	-36.77	17.08	-9.84	36.77	-17.08	0.000%
13	9.84	-27.58	17.08	-9.84	27.58	-17.08	0.000%
14	0.10	-36.77	19.66	-0.10	36.77	-19.66	0.000%
15	0.10	-27.58	19.66	-0.10	27.58	-19.66	0.000%
16	-9.66	-36.77	16.97	9.66	36.77	-16.97	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
17	-9.66	-27.58	16.97	9.66	27.58	-16.97	0.000%
18	-16.83	-36.77	9.74	16.83	36.77	-9.74	0.000%
19	-16.83	-27.58	9.74	16.83	27.58	-9.74	0.000%
20	-19.50	-36.77	-0.10	19.50	36.77	0.10	0.000%
21	-19.50	-27.58	-0.10	19.50	27.58	0.10	0.000%
22	-16.94	-36.77	-9.92	16.94	36.77	9.92	0.000%
23	-16.94	-27.58	-9.92	16.94	27.58	9.92	0.000%
24	-9.84	-36.77	-17.08	9.84	36.77	17.08	0.000%
25	-9.84	-27.58	-17.08	9.84	27.58	17.08	0.000%
26	0.00	-56.16	0.00	0.00	56.16	0.00	0.000%
27	-0.03	-56.16	-5.10	0.03	56.16	5.10	0.000%
28	2.50	-56.16	-4.40	-2.50	56.16	4.40	0.000%
29	4.35	-56.16	-2.53	-4.35	56.16	2.53	0.000%
30	5.04	-56.16	0.03	-5.04	56.16	-0.03	0.000%
31	4.37	-56.16	2.57	-4.37	56.16	-2.57	0.000%
32	2.54	-56.16	4.43	-2.54	56.16	-4.43	0.000%
33	0.03	-56.16	5.10	-0.03	56.16	-5.10	0.000%
34	-2.50	-56.16	4.40	2.50	56.16	-4.40	0.000%
35	-4.35	-56.16	2.53	4.35	56.16	-2.53	0.000%
36	-5.04	-56.16	-0.03	5.04	56.16	0.03	0.000%
37	-4.37	-56.16	-2.57	4.37	56.16	2.57	0.000%
38	-2.54	-56.16	-4.43	2.54	56.16	4.43	0.000%
39	-0.02	-30.64	-3.81	0.02	30.64	3.81	0.000%
40	1.87	-30.64	-3.29	-1.87	30.64	3.29	0.000%
41	3.26	-30.64	-1.89	-3.26	30.64	1.89	0.000%
42	3.78	-30.64	0.02	-3.78	30.64	-0.02	0.000%
43	3.28	-30.64	1.92	-3.28	30.64	-1.92	0.000%
44	1.91	-30.64	3.31	-1.91	30.64	-3.31	0.000%
45	0.02	-30.64	3.81	-0.02	30.64	-3.81	0.000%
46	-1.87	-30.64	3.29	1.87	30.64	-3.29	0.000%
47	-3.26	-30.64	1.89	3.26	30.64	-1.89	0.000%
48	-3.78	-30.64	-0.02	3.78	30.64	0.02	0.000%
49	-3.28	-30.64	-1.92	3.28	30.64	1.92	0.000%
50	-1.91	-30.64	-3.31	1.91	30.64	3.31	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00003536
3	Yes	4	0.00000001	0.00002036
4	Yes	4	0.00000001	0.00020347
5	Yes	4	0.00000001	0.00013291
6	Yes	4	0.00000001	0.00021737
7	Yes	4	0.00000001	0.00014264
8	Yes	4	0.00000001	0.00005110
9	Yes	4	0.00000001	0.00003225
10	Yes	4	0.00000001	0.00019640
11	Yes	4	0.00000001	0.00012759
12	Yes	4	0.00000001	0.00023816
13	Yes	4	0.00000001	0.00015644
14	Yes	4	0.00000001	0.00004010
15	Yes	4	0.00000001	0.00002403
16	Yes	4	0.00000001	0.00020502
17	Yes	4	0.00000001	0.00013398
18	Yes	4	0.00000001	0.00019256
19	Yes	4	0.00000001	0.00012544
20	Yes	4	0.00000001	0.00005712
21	Yes	4	0.00000001	0.00003655
22	Yes	4	0.00000001	0.00024126
23	Yes	4	0.00000001	0.00015869
24	Yes	4	0.00000001	0.00019810
25	Yes	4	0.00000001	0.00012864
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00039273
28	Yes	4	0.00000001	0.00039310
29	Yes	4	0.00000001	0.00038899
30	Yes	4	0.00000001	0.00038399
31	Yes	4	0.00000001	0.00039348
32	Yes	4	0.00000001	0.00039671
33	Yes	4	0.00000001	0.00038955
34	Yes	4	0.00000001	0.00038964
35	Yes	4	0.00000001	0.00038606
36	Yes	4	0.00000001	0.00038282
37	Yes	4	0.00000001	0.00039438
38	Yes	4	0.00000001	0.00039872
39	Yes	4	0.00000001	0.00000465
40	Yes	4	0.00000001	0.00000550
41	Yes	4	0.00000001	0.00000570
42	Yes	4	0.00000001	0.00000481
43	Yes	4	0.00000001	0.00000572
44	Yes	4	0.00000001	0.00000608
45	Yes	4	0.00000001	0.00000465
46	Yes	4	0.00000001	0.00000551
47	Yes	4	0.00000001	0.00000545
48	Yes	4	0.00000001	0.00000482
49	Yes	4	0.00000001	0.00000617
50	Yes	4	0.00000001	0.00000569

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	109 - 77	3.437	50	0.2416	0.0008
L2	82 - 50	2.105	50	0.2219	0.0005
L3	55.75 - 23.75	1.015	50	0.1638	0.0003
L4	30.25 - 0	0.313	50	0.0900	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
109.00	Lightning Rod 5/8"x10'	50	3.437	0.2416	0.0008	208871
107.00	DB810E-PS	50	3.335	0.2408	0.0008	208871
103.00	APXVFWW18X-C-NA20 w/ Mount Pipe	50	3.133	0.2392	0.0007	174059
94.00	Site Pro 1 RMV5-xxx 5' Triple T-Arm (3 Sectors)	50	2.683	0.2342	0.0007	69623
92.00	NHH-45A-R2B w/ Mount Pipe	50	2.584	0.2327	0.0006	61432
84.00	(3) NNHH-65A-R4 w/ Mount Pipe	50	2.199	0.2245	0.0006	41850
76.00	FFVV-65B-R2 w/ Mount Pipe	50	1.832	0.2119	0.0005	33159

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	109 - 77	17.784	24	1.2491	0.0041
L2	82 - 50	10.892	24	1.1481	0.0028
L3	55.75 - 23.75	5.251	24	0.8475	0.0013
L4	30.25 - 0	1.620	24	0.4656	0.0006

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
109.00	Lightning Rod 5/8"x10'	24	17.784	1.2491	0.0042	40619
107.00	DB810E-PS	24	17.260	1.2453	0.0041	40619
103.00	APXVFWW18X-C-NA20 w/ Mount Pipe	24	16.212	1.2371	0.0039	33849
94.00	Site Pro 1 RMV5-xxx 5' Triple T-Arm (3 Sectors)	24	13.881	1.2120	0.0034	13539
92.00	NHH-45A-R2B w/ Mount Pipe	24	13.371	1.2043	0.0033	11946
84.00	(3) NNHH-65A-R4 w/ Mount Pipe	24	11.377	1.1621	0.0029	8137
76.00	FFVV-65B-R2 w/ Mount Pipe	24	9.476	1.0966	0.0024	6433

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	109 - 77 (1)	TP36.06x28.9x0.2188	32.00	0.00	0.0	24.1083	-10.47	1410.33	0.007
L2	77 - 50 (2)	TP41.67x34.5038x0.3125	32.00	0.00	0.0	39.7442	-18.91	2325.04	0.008
L3	50 - 23.75 (3)	TP46.93x39.7573x0.375	32.00	0.00	0.0	53.6780	-26.01	3140.16	0.008
L4	23.75 - 0 (4)	TP51.5x44.723x0.4375	30.25	0.00	0.0	70.9067	-36.77	4148.04	0.009

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	109 - 77 (1)	TP36.06x28.9x0.2188	121.22	1076.36	0.113	0.00	1076.36	0.000
L2	77 - 50 (2)	TP41.67x34.5038x0.3125	467.21	2230.82	0.209	0.00	2230.82	0.000
L3	50 - 23.75 (3)	TP46.93x39.7573x0.375	877.29	3463.07	0.253	0.00	3463.07	0.000
L4	23.75 - 0 (4)	TP51.5x44.723x0.4375	1435.18	5227.47	0.275	0.00	5227.47	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	109 - 77 (1)	TP36.06x28.9x0.2188	9.96	423.10	0.024	0.80	1286.58	0.001
L2	77 - 50 (2)	TP41.67x34.5038x0.3125	14.96	697.51	0.021	0.90	2447.65	0.000
L3	50 - 23.75 (3)	TP46.93x39.7573x0.375	17.14	942.05	0.018	0.90	3720.58	0.000
L4	23.75 - 0 (4)	TP51.5x44.723x0.4375	19.72	1244.41	0.016	0.90	5564.76	0.000

Pole Interaction Design Data

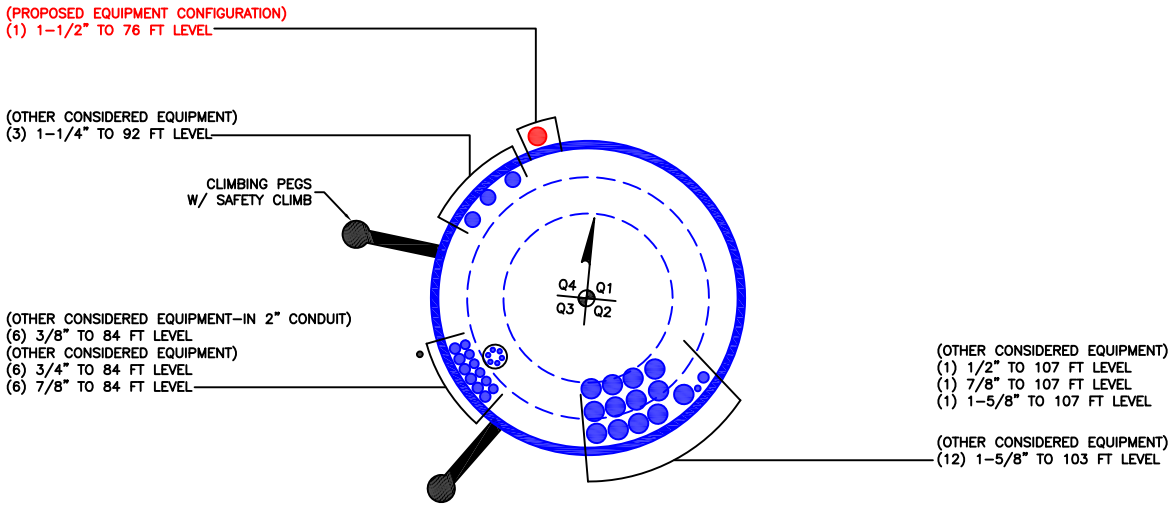
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	109 - 77 (1)	0.007	0.113	0.000	0.024	0.001	0.121	1.050	4.8.2
L2	77 - 50 (2)	0.008	0.209	0.000	0.021	0.000	0.218	1.050	4.8.2
L3	50 - 23.75 (3)	0.008	0.253	0.000	0.018	0.000	0.262	1.050	4.8.2
L4	23.75 - 0 (4)	0.009	0.275	0.000	0.016	0.000	0.284	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	109 - 77	Pole	TP36.06x28.9x0.2188	1	-10.47	1480.85	11.5	Pass
L2	77 - 50	Pole	TP41.67x34.5038x0.3125	2	-18.91	2441.29	20.8	Pass
L3	50 - 23.75	Pole	TP46.93x39.7573x0.375	3	-26.01	3297.17	24.9	Pass
L4	23.75 - 0	Pole	TP51.5x44.723x0.4375	4	-36.77	4355.44	27.0	Pass
							Summary	
						Pole (L4)	27.0	Pass
						RATING =	**27.0**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1-1/2" TO 76 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(3) 1-1/4" TO 92 FT LEVEL
CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT-IN 2" CONDUIT)
(6) 3/8" TO 84 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(6) 3/4" TO 84 FT LEVEL
(6) 7/8" TO 84 FT LEVEL
Q4
Q1
Q3
Q2
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 107 FT LEVEL
(1) 7/8" TO 107 FT LEVEL
(1) 1-5/8" TO 107 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(12) 1-5/8" TO 103 FT LEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

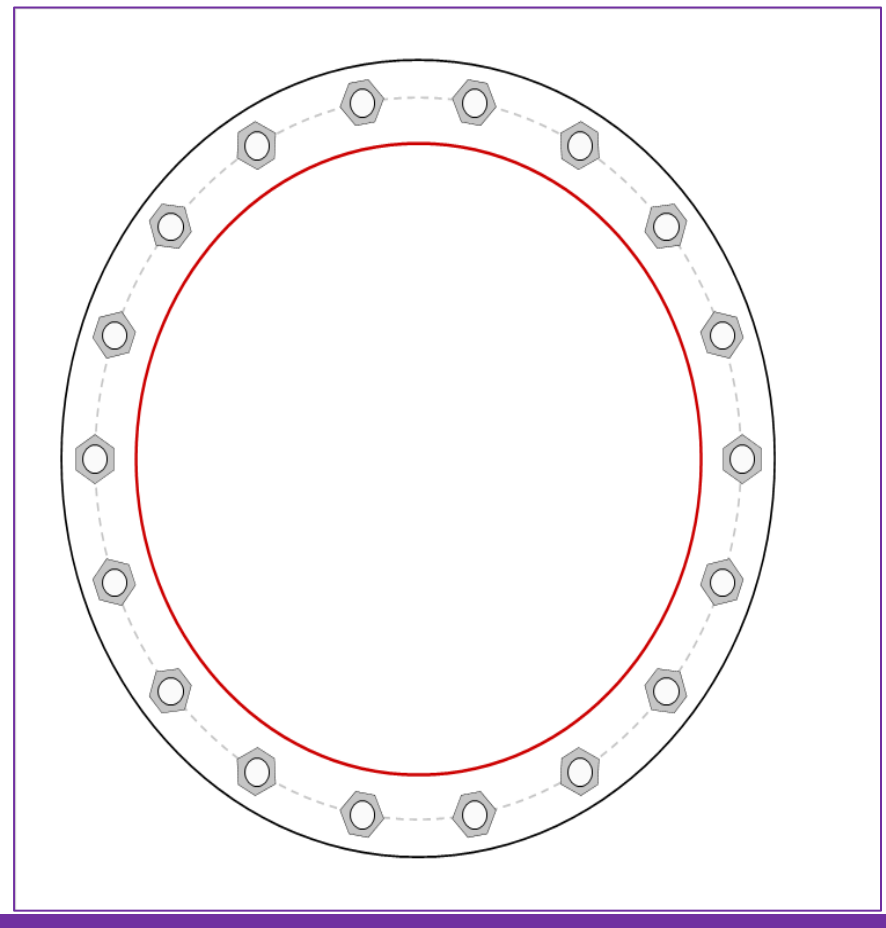
Monopole Base Plate Connection

Site Info	
BU #	843210
Site Name	MOUNT KISCO
Order #	645296 - Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.875

Applied Loads	
Moment (kip-ft)	1435.18
Axial Force (kips)	36.77
Shear Force (kips)	19.72

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(18) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 59" BC

Base Plate Data

65" OD x 2.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Stiffener Data

N/A

Pole Data

51.5" x 0.4375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_t = 62.79	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.1	ϕVn = 149.1	**24.5%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	11.09	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	**23.5%**	**Pass**

Pier and Pad Foundation

BU # :	843210
Site Name:	MOUNT KISCO
App. Number:	645296 - Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

Top & Bot. Pad Rein. Different?:	☐
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions

Compression, P_{comp}:	36.77	kips
Base Shear, Vu_comp:	19.71	kips
Moment, M_u:	1435.17	ft-kips
Tower Height, **H**:	109	ft
BP Dist. Above Fdn, bp_{dist}:	3.875	in

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	147.09	19.71	**12.8%**	**Pass**
Bearing Pressure (ksf)	22.50	1.94	**8.2%**	**Pass**
*Overturning (kip*ft)*	3327.25	1569.65	**47.2%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	9831.22	1484.45	**14.4%**	**Pass**
Pier Compression (kip)	30618.28	54.09	**0.2%**	**Pass**
*Pad Flexure (kip*ft)*	4840.37	447.49	**8.8%**	**Pass**
Pad Shear - 1-way (kips)	1097.02	67.08	**5.8%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.212	0.010	**4.7%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	9013.02	890.67	**9.4%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**14.4%**
Soil Rating*:	**47.2%**

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	7	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	10	
Pier Rebar Quantity, **mc**:	50	
Pier Tie/Spiral Size, **St**:	5	
Pier Tie/Spiral Quantity, **mt**:	10	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	6	ft
Pad Width, W_1:	20	ft
Pad Thickness, **T**:	4	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	20	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	5	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.35	
Neglected Depth, **N**:	4.17	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

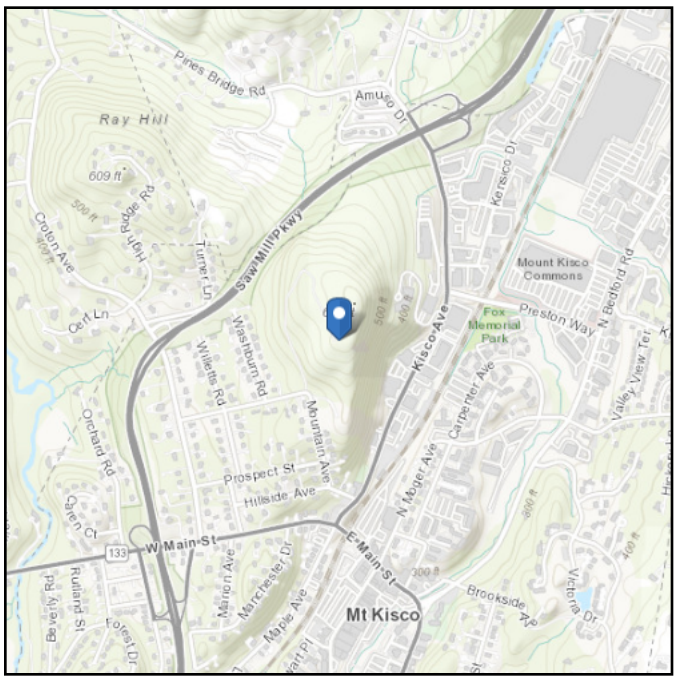
<--Toggle between Gross and Net

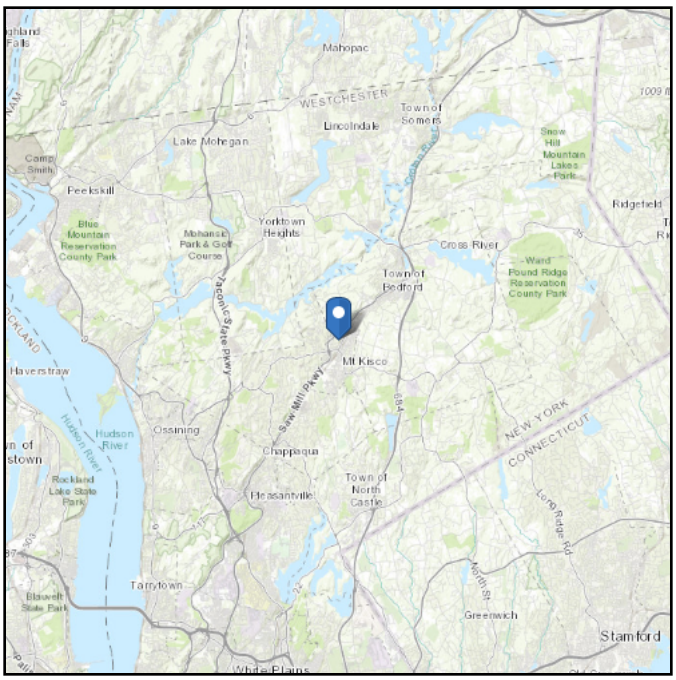
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: IV
Soil Class: D - Default (see Section 11.4.3)

Elevation: 590.95 ft (NAVD 88)
Latitude: 41.214428
Longitude: -73.729506





Wind

Results:

Wind Speed	129 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	95 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Fri Mar 25 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

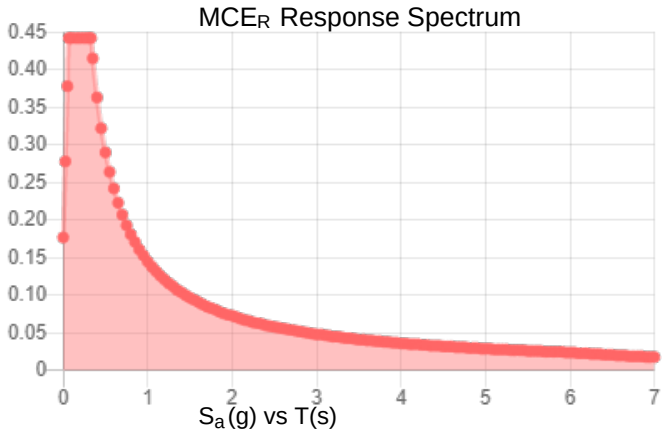
Seismic

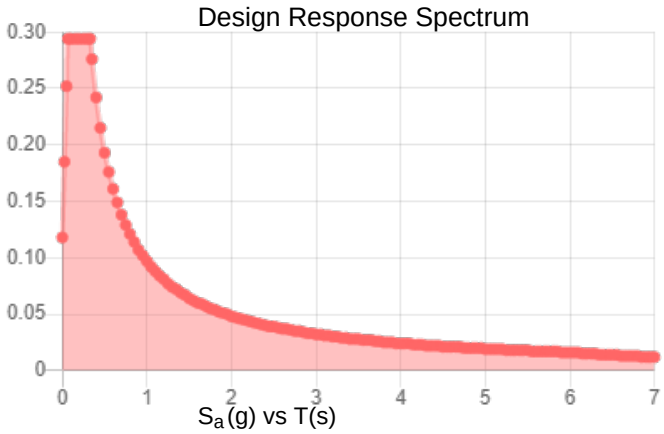
Site Soil Class: D - Default (see Section 11.4.3)

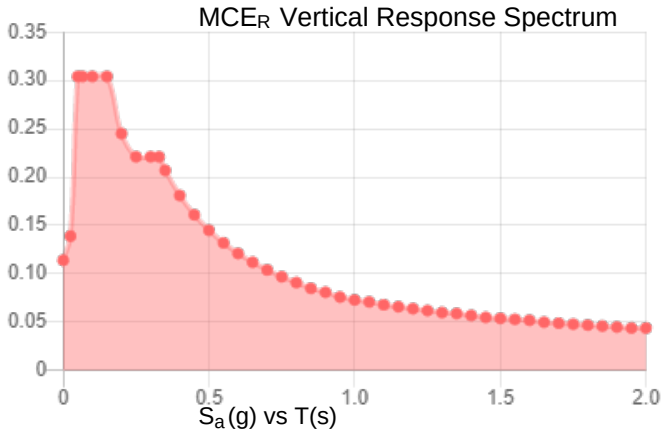
Results:

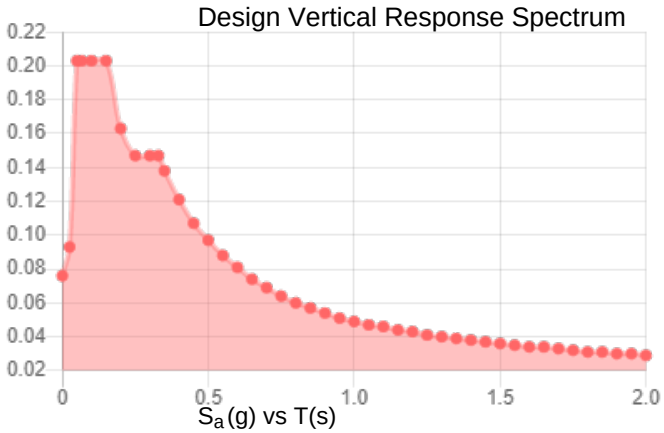
S_S :	0.28	S_{D1} :	0.097
S_1 :	0.06	T_L :	6
F_a :	1.576	PGA :	0.171
F_v :	2.4	PGA_M :	0.25
S_{MS} :	0.442	F_{PGA} :	1.457
S_{M1} :	0.145	I_e :	1.5
S_{DS} :	0.294	C_v :	0.861

Seismic Design Category C









Data Accessed: **Fri Mar 25 2022**

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Fri Mar 25 2022

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Exhibit D

Radio Frequency - Electromagnetic Energy (RF-EME) Report

Site No. NJJER01241A

1 Mountain Ave
Mount Kisco, New York 10549
41° 12' 51.94" N, -73° 43' 46.22" W NAD83

EBI Project No. 6223000104
May 19, 2023

Prepared for:

Dish Wireless

Prepared by:

EBI Consulting
environmental | engineering | due diligence

TABLE OF CONTENTS

APPENDICES

REFERENCE DOCUMENTS (NOT ATTACHED)
CDs: CD_REV1_843210_NJJER001241A_080322
RFDS: RFDS

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Dish Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Dish Wireless Site NJJER01241A located at 1 Mountain Ave in Mount Kisco, New York to determine RF-EME exposure levels from proposed Dish Wireless communications equipment at this site. As described in greater detail in Appendix C of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for the general public and for occupational activities. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible rooftop or ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Additionally, there are areas where workers who may be elevated above the rooftop or ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Dish Wireless antennas, the maximum power density generated by the DISH antennas is approximately **3.67** percent of the FCC's general public limit (**0.73** percent of the FCC's occupational limit).

The composite exposure level from all carriers on this site is approximately **6.77** percent of the FCC's general public limit (**1.35** percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

Recommended control measures are outlined in Section 4.0 and within the Site Safety Plan (attached); Dish Wireless should also provide procedures to shut down and lockout/tagout this wireless equipment in accordance with their own standard operating protocol. Non-telecom workers who will be working in areas of exceedance are required to contact Dish Wireless since only DISH has the ability to lockout/tagout the facility, or to authorize others to do so.

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per second (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Dish Wireless in this area will potentially operate within a frequency range of 600 to 5000 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes the following proposed wireless telecommunication antennas on a monopole located at 1 Mountain Ave in Mount Kisco, New York.

Ant #	Operator	Antenna Make	Antenna Model	Frequency (MHz)	Azimuth (deg.)	Mechanical Downtilt (deg.)	Horizontal Beamwidth (Degrees)	Aperture (feet)	Total Power Input (Watts)	Gain (dBd)*	Total ERP (Watts)	Total EIRP (Watts)
1	Dish	COMMSCOPE	FFVV-65B-R2 02DT 600	600	0	0	65	6.0	120	11.22	1416.38	2322.87
1	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2007	2007	0	0	67	6.0	160	15.87	5509.60	9035.74
1	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2100	2100	0	0	63	6.0	160	15.97	5637.93	9246.21
2	Dish	COMMSCOPE	FFVV-65B-R2 02DT 600	600	120	0	65	6.0	120	11.22	1416.38	2322.87
2	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2007	2007	120	0	67	6.0	160	15.87	5509.60	9035.74
2	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2100	2100	120	0	63	6.0	160	15.97	5637.93	9246.21
3	Dish	COMMSCOPE	FFVV-65B-R2 02DT 600	600	240	0	65	6.0	120	11.22	1416.38	2322.87
3	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2007	2007	240	0	67	6.0	160	15.87	5509.60	9035.74
3	Dish	COMMSCOPE	FFVV-65B-R2 02DT 2100	2100	240	0	63	6.0	160	15.97	5637.93	9246.21
4	T-Mobile	GENERIC	PANEL 6FT 00DT 600	600	0	0	68	6.0	30	12.33	513.00	841.33
4	T-Mobile	GENERIC	PANEL 6FT 00DT 700	700	0	0	68	6.0	30	12.33	513.00	841.33
4	T-Mobile	GENERIC	PANEL 6FT 00DT 1900	1900	0	0	66	6.0	60	15.84	2302.24	3775.68
4	T-Mobile	GENERIC	PANEL 6FT 00DT 2100	2100	0	0	63	6.0	60	16.39	2613.07	4285.44
5	T-Mobile	GENERIC	PANEL 6FT 00DT 600	600	120	0	68	6.0	30	12.33	513.00	841.33
5	T-Mobile	GENERIC	PANEL 6FT 00DT 700	700	120	0	68	6.0	30	12.33	513.00	841.33
5	T-Mobile	GENERIC	PANEL 6FT 00DT 1900	1900	120	0	66	6.0	60	15.84	2302.24	3775.68
5	T-Mobile	GENERIC	PANEL 6FT 00DT 2100	2100	120	0	63	6.0	60	16.39	2613.07	4285.44

6	T-Mobile	GENERIC	PANEL 6FT 00DT 600	600	240	0	68	6.0	30	12.33	513.00	841.33
6	T-Mobile	GENERIC	PANEL 6FT 00DT 700	700	240	0	68	6.0	30	12.33	513.00	841.33
6	T-Mobile	GENERIC	PANEL 6FT 00DT 1900	1900	240	0	66	6.0	60	15.84	2302.24	3775.68
6	T-Mobile	GENERIC	PANEL 6FT 00DT 2100	2100	240	0	63	6.0	60	16.39	2613.07	4285.44
7	AT&T	GENERIC	PANEL 6FT 00DT 700	700	0	0	68	6.0	160	12.33	2736.02	4487.08
7	AT&T	GENERIC	PANEL 6FT 00DT 850	850	0	0	66	6.0	160	12.62	2924.96	4796.93
8	AT&T	GENERIC	PANEL 6FT 00DT 700	700	0	0	68	6.0	80	12.33	1368.01	2243.54
8	AT&T	GENERIC	PANEL 6FT 00DT 1900	1900	0	0	66	6.0	160	15.84	6139.32	10068.48
9	AT&T	GENERIC	PANEL 6FT 00DT 2100	2100	0	0	63	6.0	160	16.39	6968.19	11427.83
9	AT&T	GENERIC	PANEL 6FT 00DT 2300	2300	0	0	58	6.0	100	16.22	4187.94	6868.21
10	AT&T	GENERIC	PANEL 6FT 00DT 700	700	120	0	68	6.0	160	12.33	2736.02	4487.08
10	AT&T	GENERIC	PANEL 6FT 00DT 850	850	120	0	66	6.0	160	12.62	2924.96	4796.93
11	AT&T	GENERIC	PANEL 6FT 00DT 700	700	120	0	68	6.0	80	12.33	1368.01	2243.54
11	AT&T	GENERIC	PANEL 6FT 00DT 1900	1900	120	0	66	6.0	160	15.84	6139.32	10068.48
12	AT&T	GENERIC	PANEL 6FT 00DT 2100	2100	120	0	63	6.0	160	16.39	6968.19	11427.83
12	AT&T	GENERIC	PANEL 6FT 00DT 2300	2300	120	0	58	6.0	100	16.22	4187.94	6868.21
13	AT&T	GENERIC	PANEL 6FT 00DT 700	700	240	0	68	6.0	160	12.33	2736.02	4487.08
13	AT&T	GENERIC	PANEL 6FT 00DT 850	850	240	0	66	6.0	160	12.62	2924.96	4796.93
14	AT&T	GENERIC	PANEL 6FT 00DT 700	700	240	0	68	6.0	80	12.33	1368.01	2243.54
14	AT&T	GENERIC	PANEL 6FT 00DT 1900	1900	240	0	66	6.0	160	15.84	6139.32	10068.48
15	AT&T	GENERIC	PANEL 6FT 00DT 2100	2100	240	0	63	6.0	160	16.39	6968.19	11427.83
15	AT&T	GENERIC	PANEL 6FT 00DT 2300	2300	240	0	58	6.0	100	16.22	4187.94	6868.21

• Note there is 1 Dish Wireless antenna per sector at this site. For clarity, the different frequencies for each antenna are entered on separate lines.

Ant #	NAME	X	Y	Antenna Radiation Centerline	Z-Height Water Tank	Z-Height Equipment Shelter	Z-Height Ground
1	Dish	80.2	13.4	76.0	36.0	66.0	76.0
2	Dish	82.9	17.9	76.0	36.0	66.0	76.0
3	Dish	77.6	18.1	76.0	36.0	66.0	76.0
4	T-Mobile	80.1	15.1	103.0	63.0	93.0	103.0
5	T-Mobile	81.4	17.5	103.0	63.0	93.0	103.0
6	T-Mobile	78.8	17.3	103.0	63.0	93.0	103.0
7	AT&T	78.2	16.2	84.0	44.0	74.0	84.0
8	AT&T	80.1	16.2	84.0	44.0	74.0	84.0
9	AT&T	81.6	16.0	84.0	44.0	74.0	84.0
10	AT&T	81.9	15.3	84.0	44.0	74.0	84.0
11	AT&T	81.1	16.6	84.0	44.0	74.0	84.0
12	AT&T	80.4	18.2	84.0	44.0	74.0	84.0
13	AT&T	80.0	18.1	84.0	44.0	74.0	84.0
14	AT&T	79.4	16.9	84.0	44.0	74.0	84.0
15	AT&T	78.6	15.4	84.0	44.0	74.0	84.0

• Note the Z-Height represents the distance from the antenna centerline in feet.

The above tables contain an inventory of proposed Dish Wireless antennas and other carrier antennas if sufficient information was available to model them. Note that EBI uses an assumed set of antenna specifications and powers for unknown and other carrier antennas for modeling purposes. The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled

exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is considered controlled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional information regarding controlled/uncontrolled exposure limits is provided in Appendix C. Appendix B presents a site safety plan that provides a plan view of the monopole with antenna locations.

3.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical MPE modeling using RoofMaster™ software to estimate the worst-case power density at the site's nearby broadcast levels resulting from operation of the antennas. RoofMaster™ is a widely-used predictive modeling program that has been developed by Waterford Consultants to predict RF power density values for rooftop and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. Using the computational methods set forth in Federal Communications Commission (FCC) Office of Engineering & Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (OET-65), RoofMaster™ calculates predicted power density in a scalable grid based on the contributions of all RF sources characterized in the study scenario. At each grid location, the cumulative power density is expressed as a percentage of the FCC limits. Manufacturer antenna pattern data is utilized in these calculations. RoofMaster™ models consist of the Far Field model as specified in OET-65 and an implementation of the OET-65 Cylindrical Model (Sula9). The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by Dish Wireless and compared the resultant worst-case MPE levels to the FCC's occupational/controlled exposure limits outlined in OET Bulletin 65. The assumptions used in the modeling are based upon information provided by Dish Wireless and information gathered from other sources. Elevations of walking/working surfaces were estimated based on elevations provided and available aerial imagery. Sector orientation assignments were made assuming coverage is directed to areas of site. Changes to antenna mount heights or placement will impact site compliance. The parameters used for modeling are summarized in the Site Description antenna inventory table in Section 2.0.

T-Mobile and AT&T also have antennas on the monopole. Information about these antennas was included in the modeling analysis.

Based on worst-case predictive modeling, there are no modeled areas on any accessible rooftop or ground-level walking/working surface related to the proposed Dish Wireless antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Dish Wireless antennas, the maximum power density generated by the Dish Wireless antennas is approximately 3.67 percent of the FCC's general public limit (0.73 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 6.77 percent of the FCC's general public limit (1.35 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

The Site Safety Plan also presents areas where Dish Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

There are no modeled areas on the rooftop and ground that exceed the FCC's limits for general public or occupational exposure in front of the other carrier antennas

The inputs used in the modeling are summarized in the Site Description antenna inventory table in Section 2.0. A graphical representation of the RoofMaster™ modeling results is presented in Appendix B. Microwave dish antennas are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage. The maximum power density generated by all carrier antennas, including microwaves and panel antennas, is included in the modeling results presented within this report.

4.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Dish Wireless antennas that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the rooftop and/or ground. In order to alert people accessing the monopole, a Caution sign and an NOC Information sign are recommended for installation 10 feet above ground level at the base of the monopole.

Barriers are recommended for installation when possible to block access to the areas in front of the antennas that exceed the FCC general public and/or occupational limits. Barriers may consist of rope, chain, or fencing. Painted stripes should only be used as a last resort. There are no barriers recommended at this site. Barriers are not recommended for installation because there are no exceedances on any walking/working surface.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the monopole should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

To reduce the risk of exposure, EBI recommends that access to areas associated with the active antenna installation be restricted and secured where possible.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

5.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Dish Wireless Site Number NJJER01241A located at 1 Mountain Ave in Mount Kisco, New York to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible rooftop or ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site.

Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 4.0 and within the Site Safety Plan (attached); Dish Wireless should also provide procedures to shut down and lockout/tagout this wireless equipment in accordance with their own standard operating protocol. Non-telecom workers who will be working in

areas of exceedance are required to contact Dish Wireless since only Dish Wireless has the ability to lockout/tagout the facility, or to authorize others to do so.

6.0 LIMITATIONS

This report was prepared for the use of Dish Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

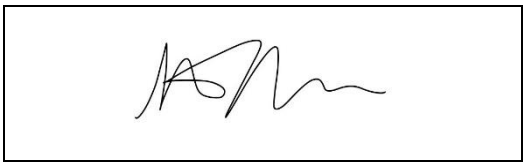
Appendix A

Certifications

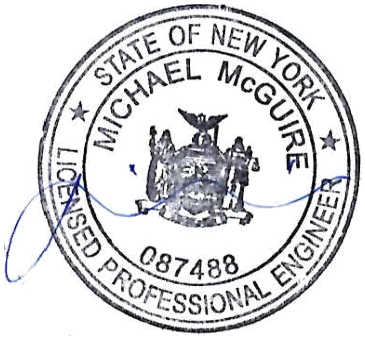
Preparer Certification

I, Stephen Mulrenan, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



Reviewed and Approved by:



sealed 19may2023 mike@h2dc.com
H2DC PLLC NY CoA#: 0015410

Michael McGuire
Electrical Engineer
mike@h2dc.com

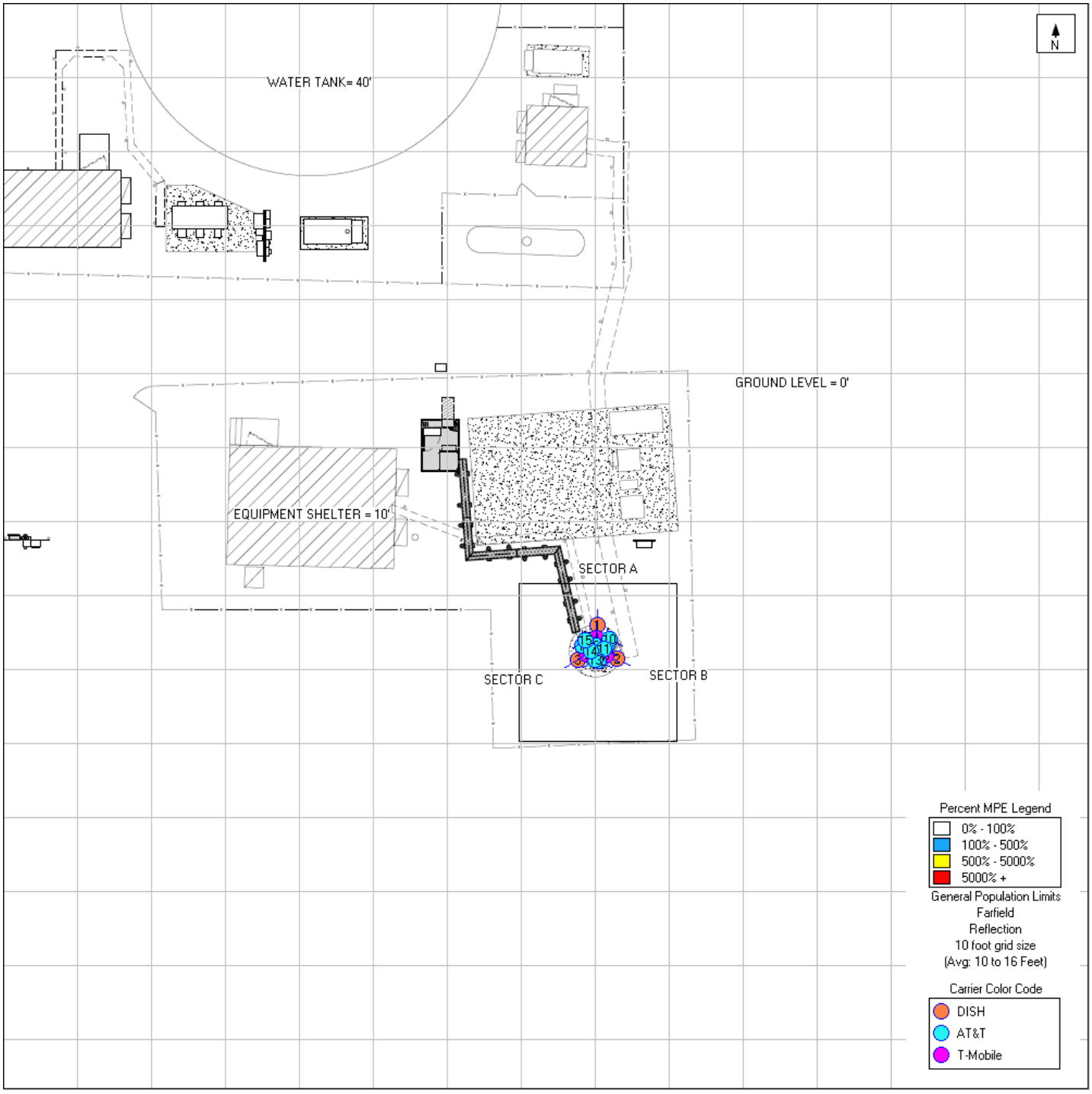
Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

Appendix B

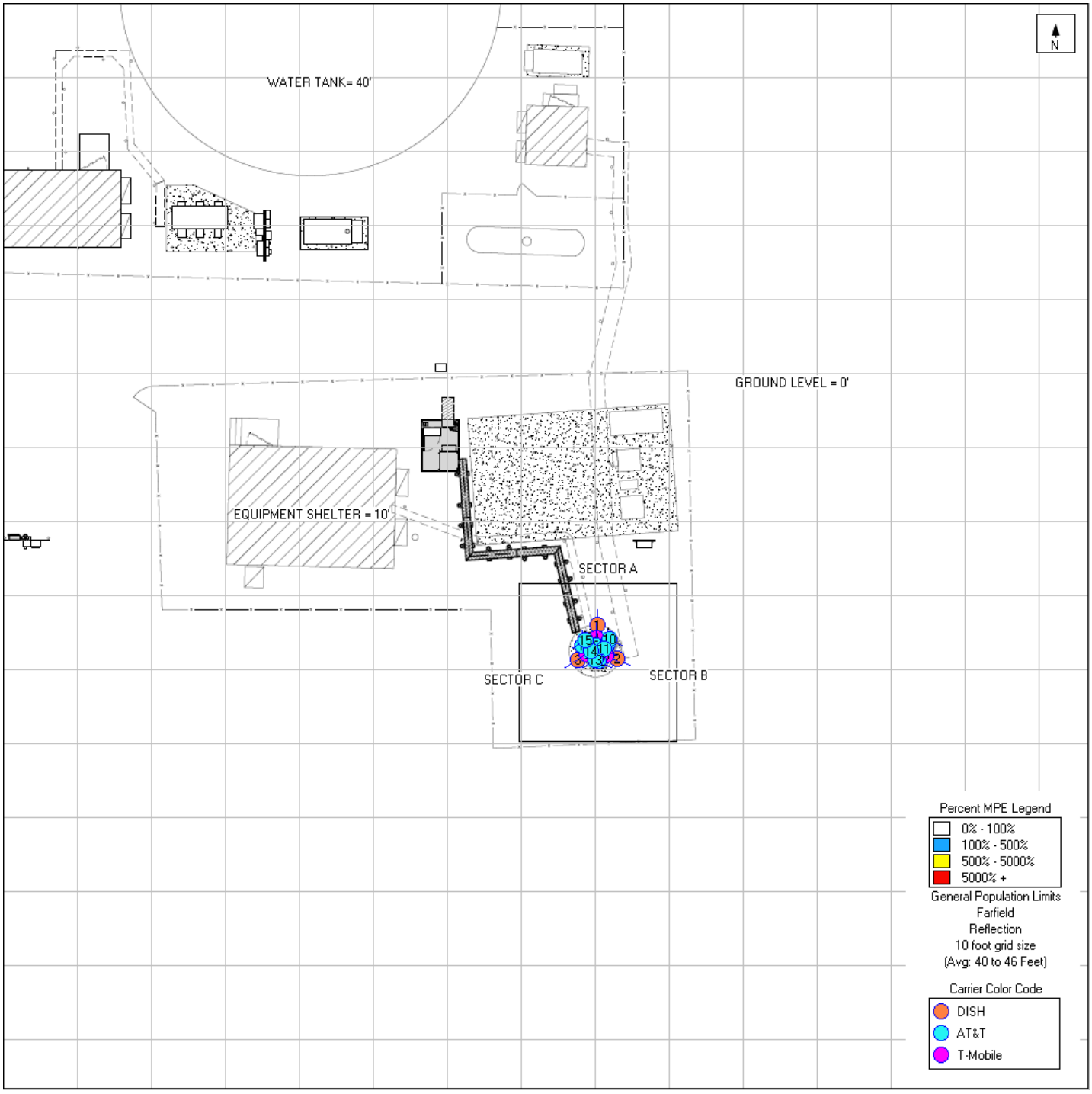
Radio Frequency Electromagnetic Energy

Safety Information and Signage Plans

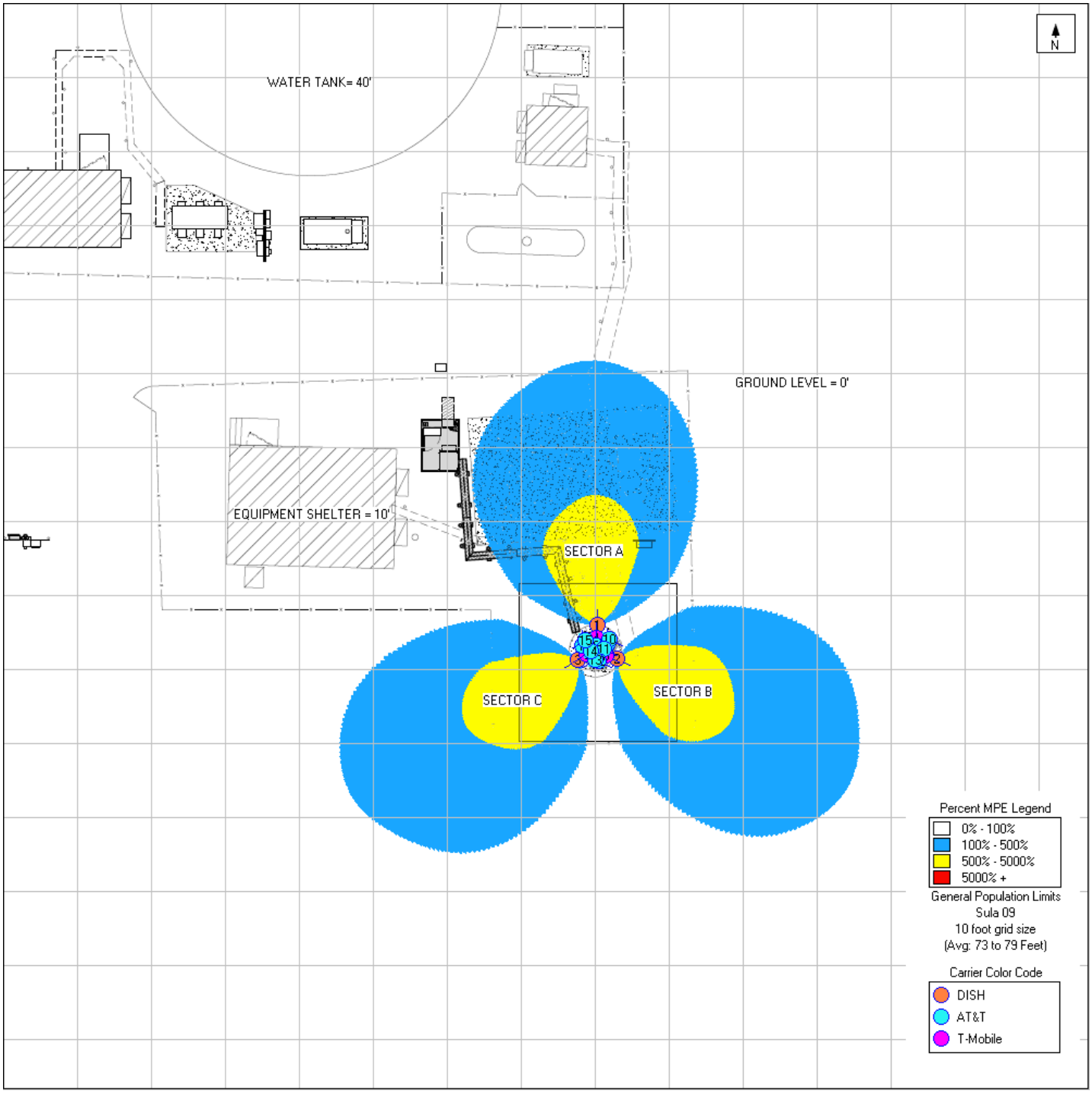
Nearest Walking Surface (Equipment Shelter Roof) Level Simulation



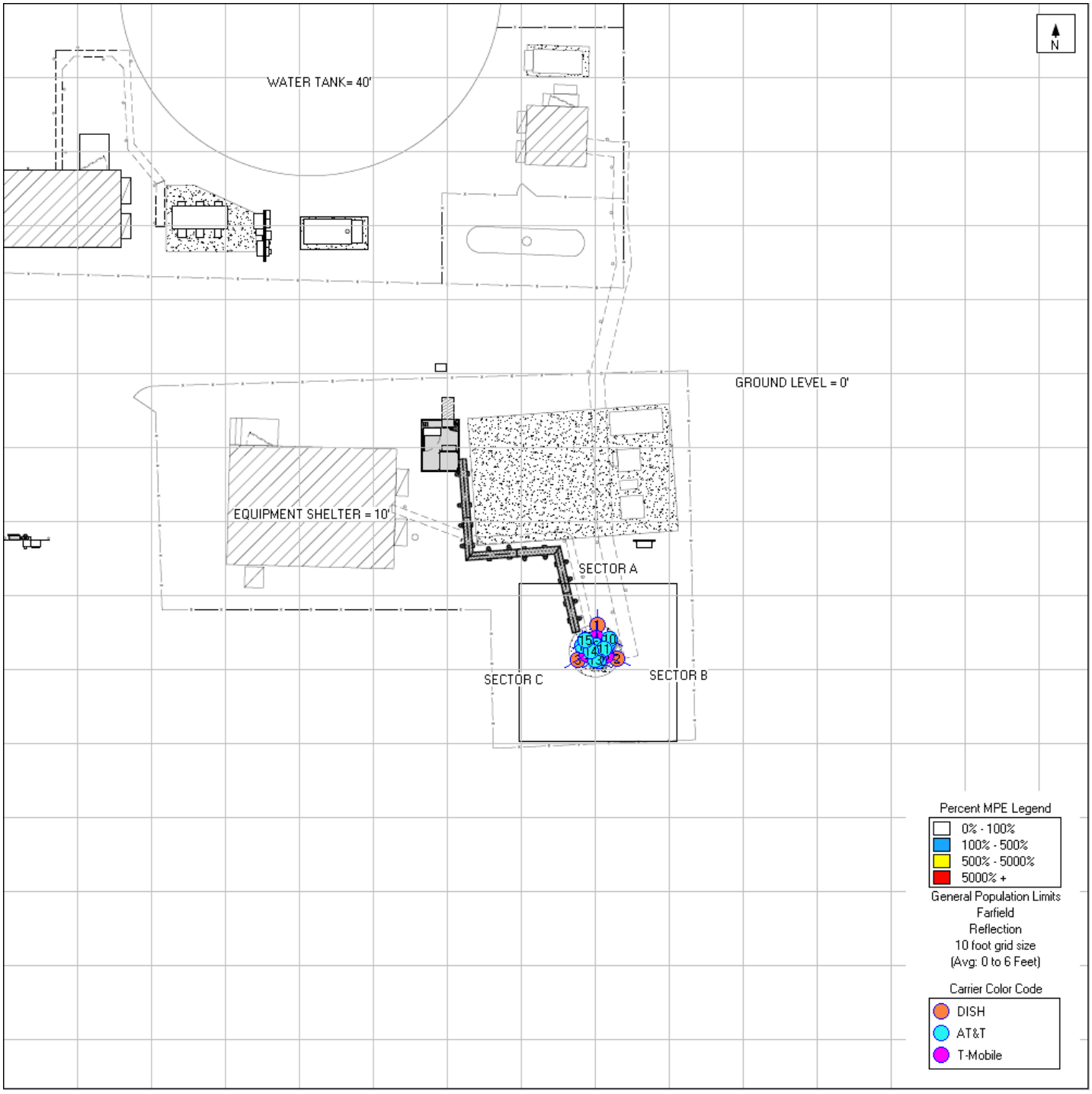
Water Tank Level Simulation



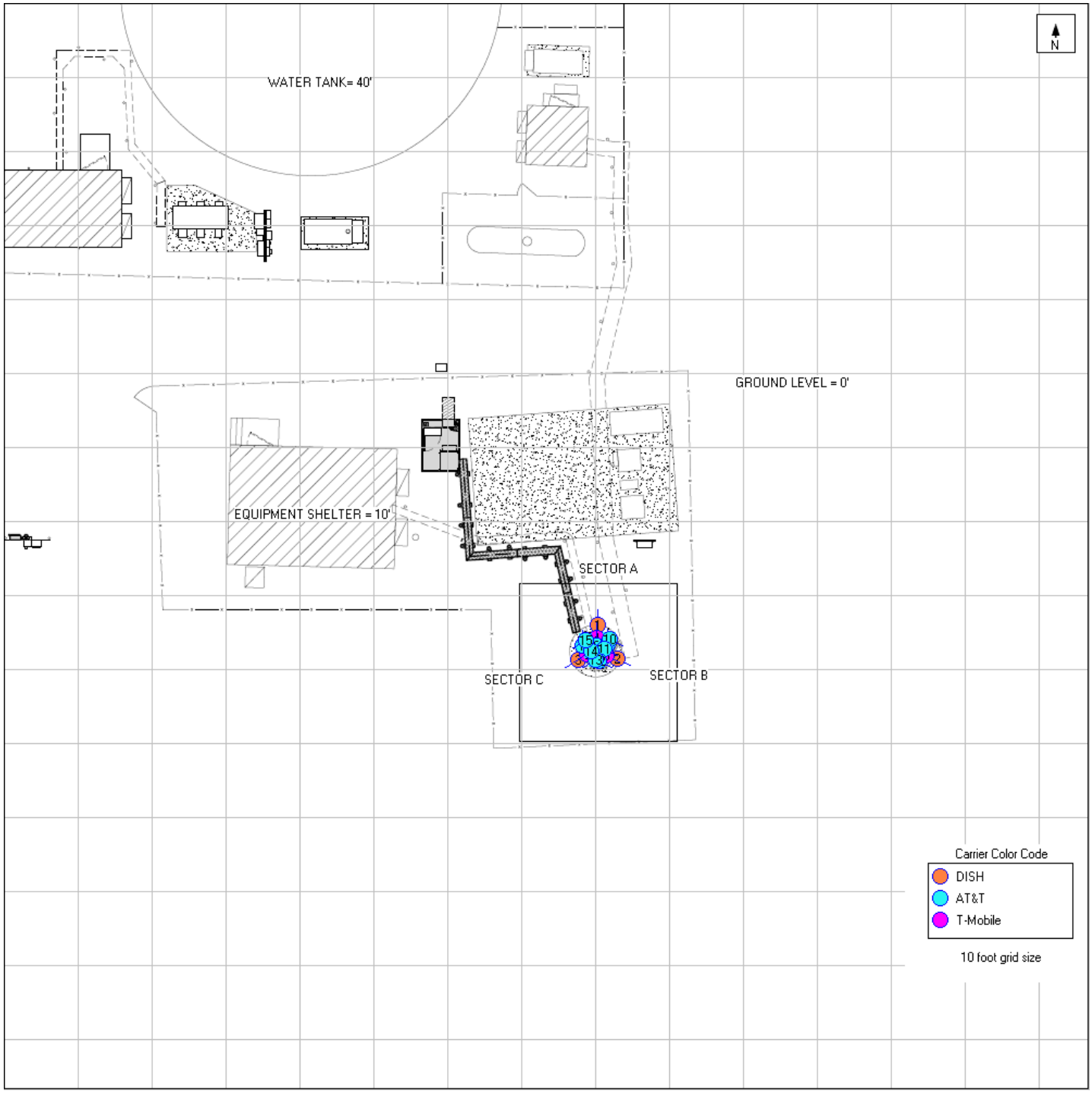
Antenna Face Level Simulation



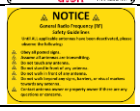
Ground Level Simulation



Dish Wireless Safety (Signage) Plan



Final Compliance Configuration							
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**	
Access Point(s)	0	0	1	0	1	0	N/A
Alpha	0	0	0	0	0	0	N/A
Beta	0	0	0	0	0	0	N/A
Gamma	0	0	0	0	0	0	N/A

Sign	Posting Instructions	Required Signage / Mitigation
	**NOC Information** Information signs are used to provide contact information for any questions or concerns for personnel accessing the site.	Securely post 10 feet above ground level at the base of the monopole in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.
	**Guidelines** Informational sign used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.	N/A
	**Notice** Used to notify individuals they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's MPE limit for the general public or occupational exposures.	N/A
	**Caution** Used to notify individuals that they are entering a hot spot where either the general public or occupational FCC's MPE limit is or could be exceeded.	Securely post 10 feet above ground level at the base of the monopole in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.
	**Warning** Used to notify individuals that they are entering a hot zone where the occupational FCC's MPE limit has been exceeded by 10x.	N/A

Appendix C

Federal Communications

Commission (FCC) Requirements

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

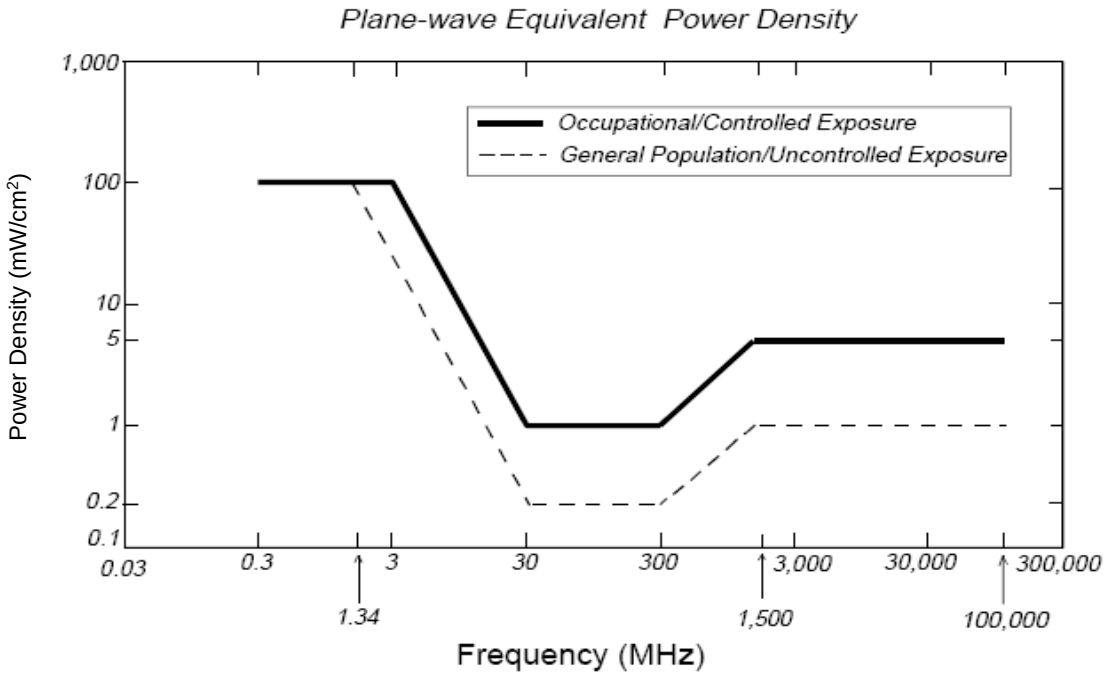
Table 1 and Figure 1 (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm^2). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm^2) and an uncontrolled MPE of 1 mW/cm^2 for equipment operating in the 1900 MHz frequency range. For the Dish Wireless equipment operating at 600 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm^2 and an uncontrolled MPE of 0.57 mW/cm^2. For the Dish Wireless equipment operating at 1900 MHz, the FCC's occupational MPE is 5.0 mW/cm^2 and an uncontrolled MPE limit of 1.0 mW/cm^2. These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
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
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)
* Plane-wave equivalent power density

Figure 1. *FCC Limits for Maximum Permissible Exposure (MPE)*



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Microwave (Point-to-Point)	5,000 - 80,000 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Broadband Radio (BRS)	2,600 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Wireless Communication (WCS)	2,300 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Advanced Wireless (AWS)	2,100 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm^2	1.00 mW/cm^2
Cellular Telephone	870 MHz	2.90 mW/cm^2	0.58 mW/cm^2
Specialized Mobile Radio (SMR)	855 MHz	2.85 mW/cm^2	0.57 mW/cm^2
Long Term Evolution (LTE)	700 MHz	2.33 mW/cm^2	0.47 mW/cm^2
Most Restrictive Frequency Range	30-300 MHz	1.00 mW/cm^2	0.20 mW/cm^2

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Dish Wireless in this area will potentially operate within a frequency range of 600 to 2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

FCC Compliance Requirement

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

Exhibit E

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM
PARKERB.COM WIRELESS L.L.C.
PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM398	
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	D	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

Waivers/Conditions:

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 forfurther information):

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.

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building,deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at https://www.3gpp.org/release-15, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this 600 MHz Band license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2025 to at least seventy (75) percent of the population inthe license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this 600 MHz Band license, this authorization shall terminate automatically without Commission action. See § 27.14(t)(4).

Special Condition 1c (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet theconditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 1d (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Partial Economic Area of thislicense more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Licensee Name: PARKERB.COM WIRELESS L.L.C.

Call Sign: WQZM398 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM
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Market Name
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Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building,deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at https://www.3gpp.org/release-15, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this 600 MHz Band license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2025 to at least seventy (75) percent of the population inthe license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this 600 MHz Band license, this authorization shall terminate automatically without Commission action. See § 27.14(t)(4).

Special Condition 1c (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet theconditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 1d (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Partial Economic Area of thislicense more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Licensee Name: PARKERB.COM WIRELESS L.L.C.

Call Sign: WQZM399 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM
PARKERB.COM WIRELESS L.L.C.
PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM400	
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	F	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

Waivers/Conditions:

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 forfurther information):

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
October 2017

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building,deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at https://www.3gpp.org/release-15, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this 600 MHz Band license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2025 to at least seventy (75) percent of the population inthe license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this 600 MHz Band license, this authorization shall terminate automatically without Commission action. See § 27.14(t)(4).

Special Condition 1c (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet theconditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 1d (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Partial Economic Area of thislicense more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Licensee Name: PARKERB.COM WIRELESS L.L.C.

Call Sign: WQZM400 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM
PARKERB.COM WIRELESS L.L.C.
PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM401	
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	G	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

Waivers/Conditions:

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 forfurther information):

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
October 2017

Special Condition 1a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building,deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at https://www.3gpp.org/release-15, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 1b (9/11/2020): Final Buildout Requirement. With respect to this 600 MHz Band license, licensee shall provide 5G Broadband Service coverage and offer 5G Broadband Service by 6/14/2025 to at least seventy (75) percent of the population inthe license area. If licensee fails to establish that it meets this Final Buildout Requirement with respect to this 600 MHz Band license, this authorization shall terminate automatically without Commission action. See § 27.14(t)(4).

Special Condition 1c (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet theconditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 1d (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Partial Economic Area of thislicense more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Licensee Name: PARKERB.COM WIRELESS L.L.C.

Call Sign: WQZM401 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: GAMMA ACQUISITION L.L.C

ATTN: ALISON MINEA
GAMMA ACQUISITION L.L.C
1110 VERMONT AVENUE, NW SUITE 750
WASHINGTON, DC 20005

Call Sign	File Number
T060430010	
Radio Service AD - AWS-4 (2000-2020 MHz and 2180-2200 MHz)	

FCC Registration Number (FRN): 0021004817

Grant Date	Effective Date	Expiration Date	Print Date
03-07-2013	09-11-2021	06-14-2023	

Market Number	Channel Block	Sub-Market Designator
BEA010	A	0

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
03-07-2017	06-14-2023		

Waivers/Conditions:

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.

Special Condition 1: This license document as first issued on March 7, 2013, reflects the Order of Modification and Authorization (DA 13-231) to existing Mobile Satellite Service ("MSS") call sign E060430 to add Part 27 rights and obligations for Advanced Wireless Service-4 ("AWS-4") terrestrial operating authority with all of the attendant rights, limitations, and obligations associated with the AWS-4 service rules adopted in WT Docket No. 12-70 (FCC 12-151), and any subsequent orders. The license document issued on March 7, 2013, is not a separate authorization in and of itself. The parameters reflected in the International Bureau Filing System ("IBFS") for the MSS authorization of the license (call sign E060430) together with the parameters reflected in the Universal Licensing System (ULS) for the standalone terrestrial authorization of the license (call sign T060430001 - T060430176 derivatives) as of March 7, 2013 constitute the whole of the modified license. A licensee of AWS-4 operating authority is permitted to partition, disaggregate, and lease AWS-4 spectrum as provided under the FCC's rules. See, e.g., 47 C.F.R. Parts 1, 27. The partition, disaggregation, or lease of AWS-4 spectrum does not encompass the MSS authorization.

Special Condition 2: A licensee of AWS-4 operating authority shall comply with the specific Global Positioning System ("GPS") protection limits set forth in the September 27, 2012 letter agreement between DISH Network Corporation (parent corp. of the AWS-4 licensee under this license as issued on March 7, 2013) and the U.S. GPS Industry Council, as detailed in FCC Order 12-151. See Service Rules for Advanced Wireless Services in the 2000-2020 MHz and 2180-2200 MHz Bands, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, Report and Order and Order of Proposed Modification, 27 FCC Rcd 16102, 16151-53, at Paras. 118-122 (2012) (AWS-4 Report and Order), citing Letter from Jeffrey H. Blum, Deputy General Counsel, DISH Network Corporation, and F. Michael Swiek, Executive Director, The U.S. GPS Industry Council, to Marlene H. Dortch, Sec'y, Federal Communications Commission, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142 (filed Sept. 27, 2012) (a copy of this letter is attached). Further, as detailed in the AWS-4 Report and Order, an AWS-4 license shall remain subject to this Special Condition 2 in the event that the licensee assigns or otherwise transfers the license to a successor-in-interest or assignee. Id. at 16152-53, Para. 121.

Special Condition 3A: A licensee of AWS-4 operating authority shall protect Federal operations in the 2200-2290 MHz band as specified in Section 27.1134(e) of the Commission's rules and in FCC Order 12-151. 47 C.F.R. § 27.1134(e); Service Rules for Advanced Wireless Services in the 2000-2020 MHz and 2180-2200 MHz Bands, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, Report and Order and Order of Proposed Modification, 27 FCC Rcd 16102, 16148-51, at Paras. 107-117 (2012) (AWS-4 Report and Order).

Special Condition 3B: In December 2012, DISH Network Corporation (parent corp. of the AWS-4 licensee under this license as issued on March 7, 2013) and federal users of the 2200-2290 MHz band entered into an operator-to-operator agreement. Letter from Karl B. Nebbia, Associate Administrator, Office of Spectrum Management, National Telecommunications and Information Administration, to Julius Knapp, Chief, Office of Engineering and Technology, Federal Communications Commission, WT Docket Nos. 12-70, 04-356, ET Docket No. 10-142, at Attachment ("Operator-to-Operator Agreement between New DBSD Satellite Services G.P. and Gamma Acquisition L.L.C. and United States Federal Government Agencies Operating Earth Stations and/or Aeronautical Mobile Telemetry (AMT) Stations in the 2200-2290 MHz Band") (Dec. 11, 2012) (a copy of this letter is attached). As detailed in FCC Order 12-151, a licensee of AWS-4 operating authority shall comply with this agreement with regard to the permissible AWS-4 emissions into the 2200-2290 MHz band and/or the maximum actual AWS-4 emissions to be received at the specified sites of Federal operations in the 2200-2290 MHz band. AWS-4 Report and Order, 27 FCC Rcd at 16148-51, Paras. 107-117.

Special Condition 3C: As detailed in Section 27.1134(e)(2) of the Commission's rules and in FCC Order 12-151, a licensee of AWS-4 operating authority who is a party to a private contractual agreement between it and a Federal government entity(ies) operating in the 2200-2290 MHz band must maintain a copy of the agreement in its station files and disclose it, upon request, to prospective AWS-4 assignees, transferees, or spectrum lessees, to Federal operators, and to the Commission. 47 C.F.R. § 27.1134(e)(2); AWS-4 Report and Order, 27 FCC Rcd at 16149-50, at Para. 112.

Special Condition 4A: This license is subject to the terms of the Memorandum Opinion and Order, DA 13-2409, in WT Docket No. 13-225.

Special Condition 4b: On June 1, 2016, DISH Network Corporation, parent corp. of the AWS-4 licensee under this license (as issued on March 7, 2013, and to date), stated unequivocally its election applicable to all AWS-4 licenses of terrestrial downlink-not terrestrial uplink-operations at 2000-2020 MHz. See WT Docket No. 13-225, Letter from Jeffrey H. Blum, Senior Vice President & Deputy General Counsel, DISH Network Corporation, to Marlene H. Dortch, Secretary, FCC (filed Jun. 1, 2016). See also ULS File No#0007291406. This one-time election is binding on all AWS-4 licensees and licenses including any AWS-4 licenses issued subsequently. Use of the Lower AWS-4 Band for terrestrial downlink operations is subject to any rules that are generally applicable to AWS downlink operations except to the extent expressly waived by Memorandum Opinion and Order, DA 13-2409, in WT Docket No. 13-225. By way of reference and not limitation, see Memorandum Opinion and Order, DA 13-2409, at para. 25 for list of rules waived for downlink operations, and id. at para. 47 for list of requirements for downlink operations.

Special Condition 5 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 for further information):

Special Condition 5a (9/11/2020): DISH is obligated to provide 5G Broadband Service over this license. DISH has waived its rights to use this license under the Commission's flexible-use policies and this license is expressly conditioned on DISH building,deploying, and offering 5G Broadband Service, which means at least 3GPP Release 15 capable of providing Enhanced Mobile Broadband (eMBB) functionality. 5G is defined as the 5G New Radio interface standard as described in 3GPP Release 15, available at https://www.3gpp.org/release-15, or 3GPP Release 16 within 3 years of 3GPP final approval. This condition does not preclude DISH from providing IoT as a service in addition to the 5G Broadband Service, but DISH is precluded from relying on IoT (or any other non-5G Broadband Service) operations to satisfy its buildout requirements and commitments.

Special Condition 5b (9/11/2020): Final Buildout Requirement. Licensee shall provide terrestrial 5G Broadband Service coverage and offer terrestrial 5G Broadband Service by 6/14/2023 to at least seventy (70) percent of the population in the license area in the 2000-2020 MHz and 2180-2200 MHz bands. If licensee fails to establish that it meets this Final Buildout Requirement in the license area in the 2000-2020 MHz and 2180-2200 MHz bands, its authorization for this license area shall terminate automatically without Commission action. Failure to meet this Final Buildout Requirement in an EA shall also result in the MSS protection rule in 47 CFR § 27.1136 no longer applying in this license area. See generally 47 CFR § 27.14(q)(2),(4)-(6).

Special Condition 5c (9/11/2020): Contingent extension: The Final Buildout Requirement in special condition 5b shall be extended to 6/14/2025 if licensee establishes that it is offering 5G Broadband Service with respect to its AWS-4 licenses in the 2000-2020 MHz and 2180-2200 MHz bands to 50% or more of the U.S. population by 6/14/2023.

Special condition 5d (9/11/2020): DISH has committed to make significant payments to the U.S. Treasury if it does not meet its deployment commitments and that commitment is a condition of the waiver/extension grant and modification of this license in DA 20-1072. These commitments include, but are not limited to, mandatory monetary payments for failure to meet deployment commitments (that are separate from the final buildout requirements), status reports, and verification metrics. If DISH fails to meet the conditions of these grants, it must make the payments required. In addition to mandatory monetary payments (and license cancellations), DISH continues to be subject to all of the Commission's other enforcement and regulatory powers for failing to meet any condition of the grants and modifications made on 9/11/2020.

Special Condition 5e (9/11/2020): Until September 11, 2026, licensee shall not (1) sell this license without the advance approval of both the FCC and the U.S. Department of Justice or (2) in any 12-month period provide in the Economic Area of this license more than 35% of the capacity of its 5G network to any of the three largest wireless facilities-based providers (alone or in combination) without prior FCC approval. Sell means (i) to transfer, assign, or dispose of this license in any manner either directly or indirectly; or (ii) to transfer control of an entity holding this license; or (iii) to enter into a lease arrangement or any other arrangement that results in the transfer of de jure or de facto control of this license.

Licensee Name: GAMMA ACQUISITION L.L.C

Call Sign: T060430010 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AMERICAN H BLOCK WIRELESS L.L.C.

ATTN: OFFICE GEN. COUNSEL, LEGAL DEPT.
AMERICAN H BLOCK WIRELESS L.L.C.
PO BOX 6663
ENGLEWOOD, CO 80155-6663

Call Sign	File Number
WQTX209	
Radio Service AH - AWS-H Block (at 1915-1920 MHz and 1995-2000 MHz)	

FCC Registration Number (FRN): 0023125057

Grant Date	Effective Date	Expiration Date	Print Date
04-29-2014	09-11-2020	06-14-2023	05-07-2021

Market Number	Channel Block	Sub-Market Designator
BEA010	H	0

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
04-29-2018	06-14-2023		

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.

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
October 2017

Licensee Name: AMERICAN H BLOCK WIRELESS L.L.C.

Call Sign: WQTX209 **File Number:** **Print Date:** 05-07-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Exhibit F

Property Detail Report

For Property Located At :
2 MOUNTAIN AVE, MOUNT KISCO, NY 10549

CoreLogic RealQuest Professional

Owner Information

Owner Name:	**VILLAGE OF MOUNT KISCO**
Mailing Address:	**104 E MAIN ST, MOUNT KISCO NY 10549-2304 C010**
Vesting Codes:	/ /

Location Information

Legal Description:			
County:	**WESTCHESTER, NY**	APN:	**5601-069-056-00004-000-0007**
Census Tract / Block:	**130.00 / 4**	Alternate APN:	
Township-Range-Sect:		Subdivision:	
Legal Book/Page:		Map Reference:	**5601-069-00056 /**
Legal Lot:	**7**	Tract #:	
Legal Block:	**4**	School District:	**552002**
Market Area:	**MOUNT KISCO**	School District Name:	**BEDFORD**
Neighbor Code:	**2**	Munic/Township:	**MOUNT KISCO**

Owner Transfer Information

Recording/Sale Date:	/	Deed Type:	
Sale Price:		1st Mtg Document #:	
Document #:			

Last Market Sale Information

Recording/Sale Date:	/	1st Mtg Amount/Type:	/
Sale Price:		1st Mtg Int. Rate/Type:	/
Sale Type:		1st Mtg Document #:	
Document #:		2nd Mtg Amount/Type:	/
Deed Type:		2nd Mtg Int. Rate/Type:	/
Transfer Document #:		Price Per SqFt:	
New Construction:		Multi/Split Sale:	
Title Company:			
Lender:			
Seller Name:			

Prior Sale Information

Prior Rec/Sale Date:	/	Prior Lender:	
Prior Sale Price:		Prior 1st Mtg Amt/Type:	/
Prior Doc Number:		Prior 1st Mtg Rate/Type:	/
Prior Deed Type:			

Property Characteristics

Year Built / Eff:	/	Total Rooms/Offices		Garage Area:	
Gross Area:		Total Restrooms:		Garage Capacity:	
Building Area:		Roof Type:		Parking Spaces:	
Tot Adj Area:		Roof Material:		Heat Type:	
Above Grade:		Construction:		Air Cond:	
# of Stories:		Foundation:		Pool:	
Other Improvements:		Exterior wall:		Quality:	
		Basement Area:		Condition:	

Site Information

Zoning:	**RS-12**	Acres:	**0.43**	County Use:	
Lot Area:	**18,857**	Lot Width/Depth:	**x**	State Use:	**VACANT COMMERCIAL (330)**
Land Use:	**COMMERCIAL LOT**	Commercial Units:		Water Type:	**COMMERCIAL**
Site Influence:		Sewer Type:	**PUBLIC SERVICE**	Building Class:	

Tax Information

Total Value:	**$15,000**	Assessed Year:	**2016**	Property Tax:	**$1,823.64**
Land Value:	**$15,000**	Improved %:		Tax Area:	**555601**
Improvement Value:		Tax Year:	**2016**	Tax Exemption:	**170**
Total Taxable Value:					

RS Date 1-17-18 Doc Type R
843210 Loan #

Exhibit G

RF Justification Report
Site NJJER01241A

Site Address: 1 Mountain Ave, Mount Kisco, NY 10549

Date:- 09/22/2023

Prepared By: Pawan Madahar (RF Engineer)

Site

Contents

1 Introduction

DISH is currently Building out Phase 1 of its 5G network. DISH has committed to the FCC that, by June 14, 2022, it will have deployed a core network and will offer 5G Broadband Service to at least 20% of the U.S. population. DISH has committed to the FCC that, by June 14, 2023, it will deploy a nationwide 5G network using DISH's spectrum with at least 70% of the U.S. population having access to download speeds equal to or greater than 35 Mbps.

DISH submits this document in order to explain its standards and criteria for adequate signal strength, capacity, and reliability and how these standards and criteria are applicable to the town of Mount Kisco.

2 Qualifications

The in-house RF engineering team of DISH Wireless prepared this report. The team consists of experienced and properly credentialed Radio Frequency (RF) engineers, responsible for designing DISH's 5G Network in New York in order to provide adequate and effective wireless communications services in compliance with all FCC requirements, including DISH's licensure requirements.

The RF engineering team uses proprietary software and tools, drive test data, for identifying network coverage, performance and capacity deficiencies. The team develops and implements solutions based on the analyses with the goal of maximizing network coverage, performance and efficiency.

3 Wireless Telecommunications Systems

The FCC licenses a specific amount of RF spectrum to each wireless carrier and stipulates that each carrier efficiently use that spectrum to provide adequate wireless communication services to emergency services, businesses and individuals in the licensed areas. Wireless carriers achieve this mandate by continuously reusing the allocated radio frequencies throughout their licensed service area. This is accomplished by building small radio base stations, or cell sites, in a particular pattern (also known as a grid). The application of the grid concept affords a wireless carrier the ability to plan the reuse of radio frequencies effectively and efficiently.

In order to provide effective coverage while maintaining an appropriate frequency reuse plan, the RF Design Engineer must perform a balancing test of all applicable technological variables. The primary variables that the engineer must balance/take into consideration are location, and the overall height of the cell sites. Too close and there is interference. Too far and calls are dropped. If a cell site is too high, it will have increased coverage but will cause interference throughout the rest of the wireless network, thereby significantly affecting network efficiency. If a cell site is too low, it will not provide effective coverage. Therefore, a properly designed wireless network design begins with strategically located cell sites. At each cell site there is a building, tower, water tank or other structure on which antennas are mounted.

4 Performance Metrics

The critical issue for DISH is the provision of "adequate and substantial" Radio Frequency (RF) service to serve its wireless customers. The wireless industry is governed by the Rules of the FCC. The FCC mandates in CFR 47, Parts §22.940 and §24.16 that each carrier must provide "substantial service" in its licensed service area, or risk having their license revoked. The FCC defines "substantial service" as service which is sound, favorable, and substantially above a level of mediocre service.

Coverage

A metric called Reference Signal Received Power ("RSRP") is used to specify the coverage capabilities of wireless networks.

RSRP is the average received power measured across a 5G broadband channel. RSRP is measured in units of "decibels" referenced against 1 milliwatt, or dBm. The decibel is a logarithmic unit that allows ratios to be added or subtracted. The definition formula for decibels referenced against 1 milliwatt is dBm = 10 log (P / $1mW$) with P measured in milliwatts. So 10 mW would be 10dBm, 100 mW would be 20dBm, etc.

The service boundary of a 5G site is defined using a RSRP equating to an acceptable receiver signal threshold. This value is derived from industry standards, 5G receive signal levels and quality and acceptable signal to noise ratios, along with statistically quantifiable variations in terrain. This threshold must also take into account additional losses associated with location of the mobile user.
DISH must provide adequate service to all of its users. In order to account for users within buildings, additional margin must be added to RSRP so that adequate coverage exists inside. Industry and DISH engineering standards include an additional 10dB of margin to RSRP to be used for light suburban areas, with increasing values for higher density land usage. This additional margin is also required for in-vehicle service specifically to account for increased attenuation associated with the use of hands-free headsets, where the phone is typically placed on the seat or in the center console.

An industry standard RF computer-aided engineering tool is used in the design of wireless networks. This tool is used to generate a plot of RSRP that shows underlying geographic data (highways, arterial roads, etc.). The propagation map is drawn showing the region where the RSRP equates to the minimally acceptable received signal level for adequate service, as measured at the device's receiver. The propagation map depicts the RSRP of the surrounding environment including the attenuation of in-building and in-vehicle use of service and visually demonstrates existing coverage patterns. Plots can also be generated to demonstrate proposed coverage patterns.

With the preceding in mind, DISH' network standard for reliable 5G wireless service for highway and urban settings is -96.12 dBm RSRP. Network reliability and accessibility decreases dramatically for mobile devices operating in or traveling into RF environments outside (or weaker than) the -101.12 dBm RSRP coverage boundary. Similarly, and as described above, signal level stronger than -96.12 dBm RSRP is used in areas where additional signal strength is needed to penetrate into buildings (e.g., city centers, dense residential, commercial and industrial type environs).

5 Performance Solutions

When the DISH Radio Frequency Engineer identifies coverage gaps in the system or sites that have or will reach data capacity exhaustion, they issue a “Search Ring.” 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 ring is to define the permissible location for placement of a cell site that will provide adequate service in the subject cell and work properly as part of the overall network.

6 Justification for Dish Site NJJER01241A

DISH is requesting to build a site based upon a Monopole located at 1 Mountain Ave, Mount Kisco, NY 10549 at rad center of 76 ft, in order to provide new coverage in the residential and commercial areas and to offer contiguous coverage between neighboring Mt. Kisco, NY sites. In addition, this site will provide significant offload of neighboring congested cell sites alleviating call performance issues while providing a buffer for the future traffic growth.

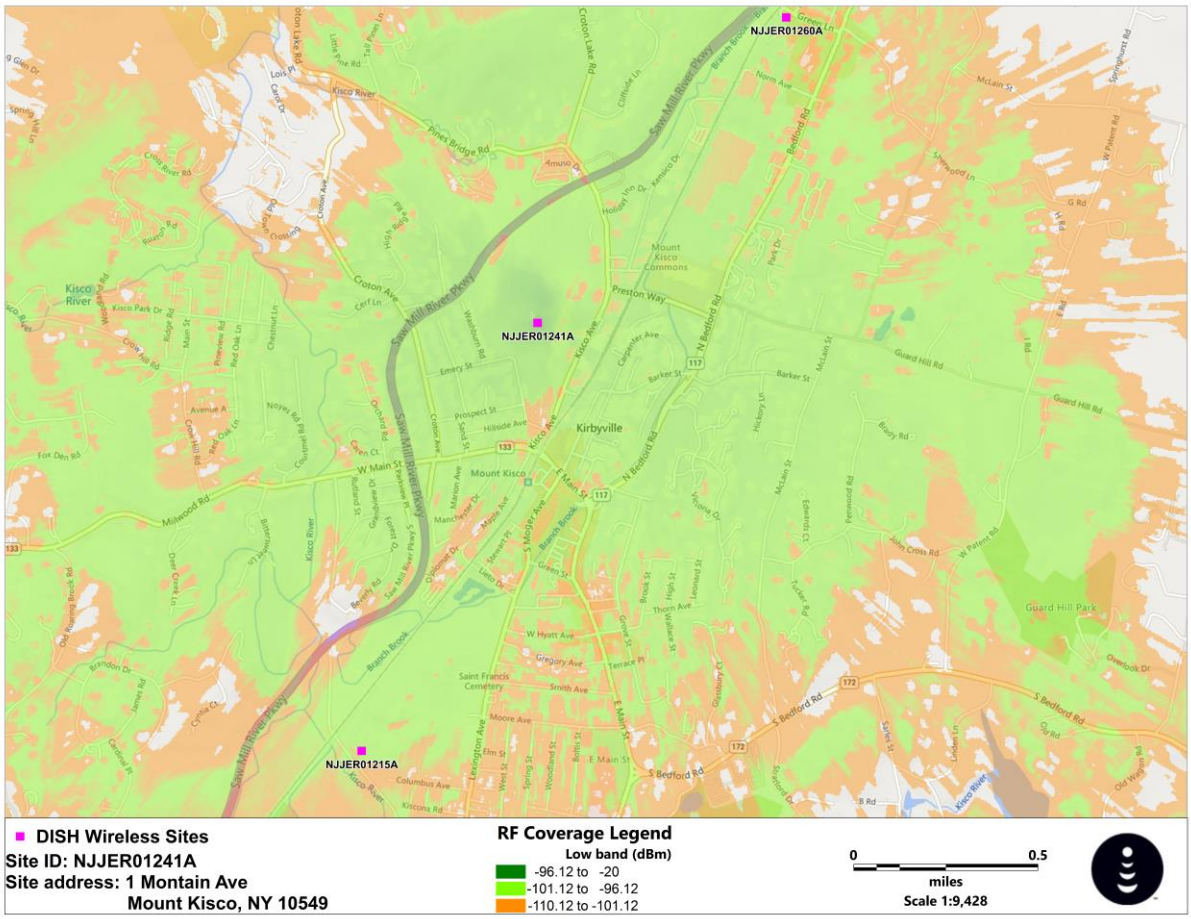
The site will provide good coverage within the Mt. Kisco area, Saw Mill River Pkwy running parallel with Orchard Rd towards West, Kisco Ave & E main St intersection towards South, N Bedford Rd & Preston Way intersection towards East, and Saw Mill River Pkwy & Kisco Ave intersection towards North. Moreover, this site will also provide coverage to the nearby residential/commercial areas.

The accompanying coverage prediction plots exhibit the need for requested height and location. The dark green colored shade shows “Urban In-building” coverage. The light green colored shade shows “Suburban In-building” coverage. The orange colored shade shows “On-Street Portable” coverage. If there is no colored area, it means there is no coverage or very limited coverage.

This facility is needed to address a significant gap in service in DISH’s network and without the Facility DISH will be materially inhibited from providing its personal wireless services to the area.

The proposed facility will not interfere with existing signals, such as household televisions and radios.

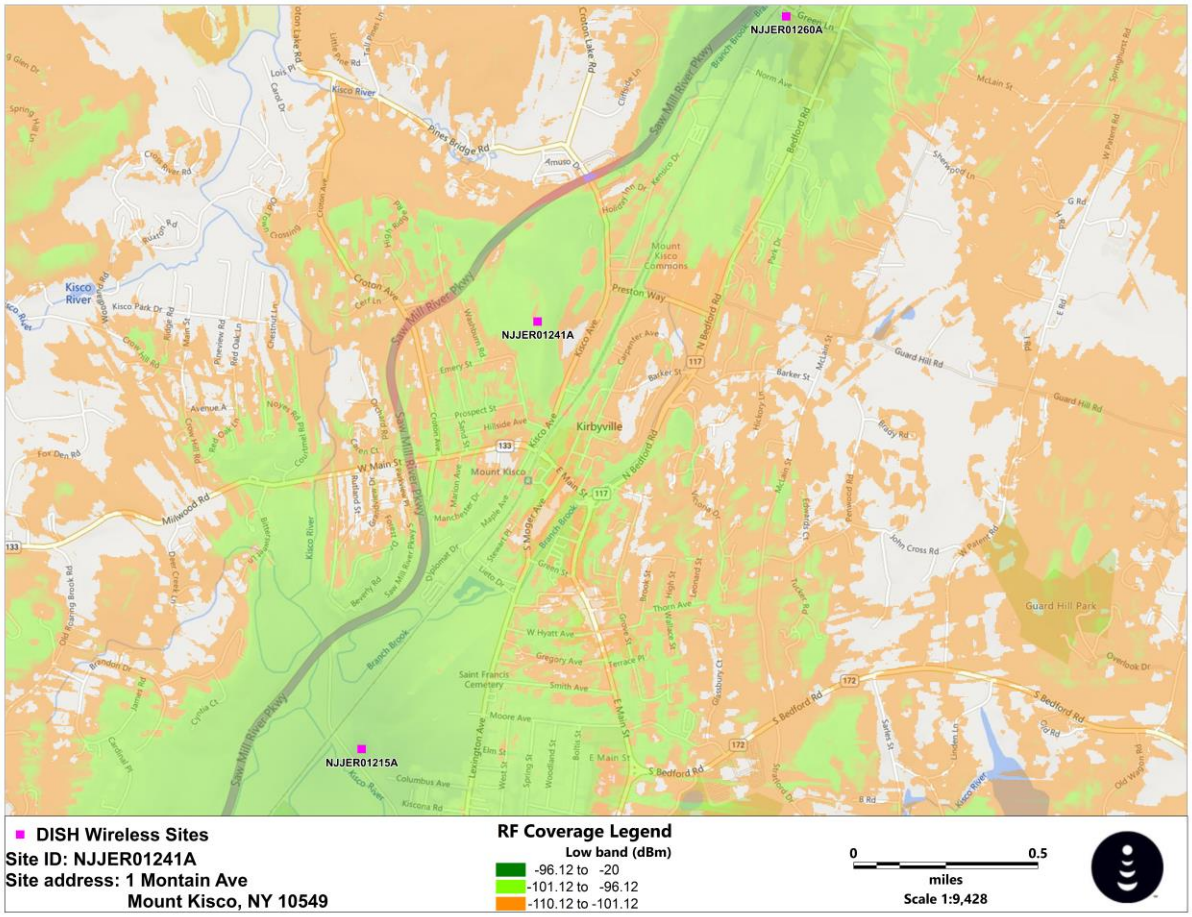
Propagation Maps: Standalone



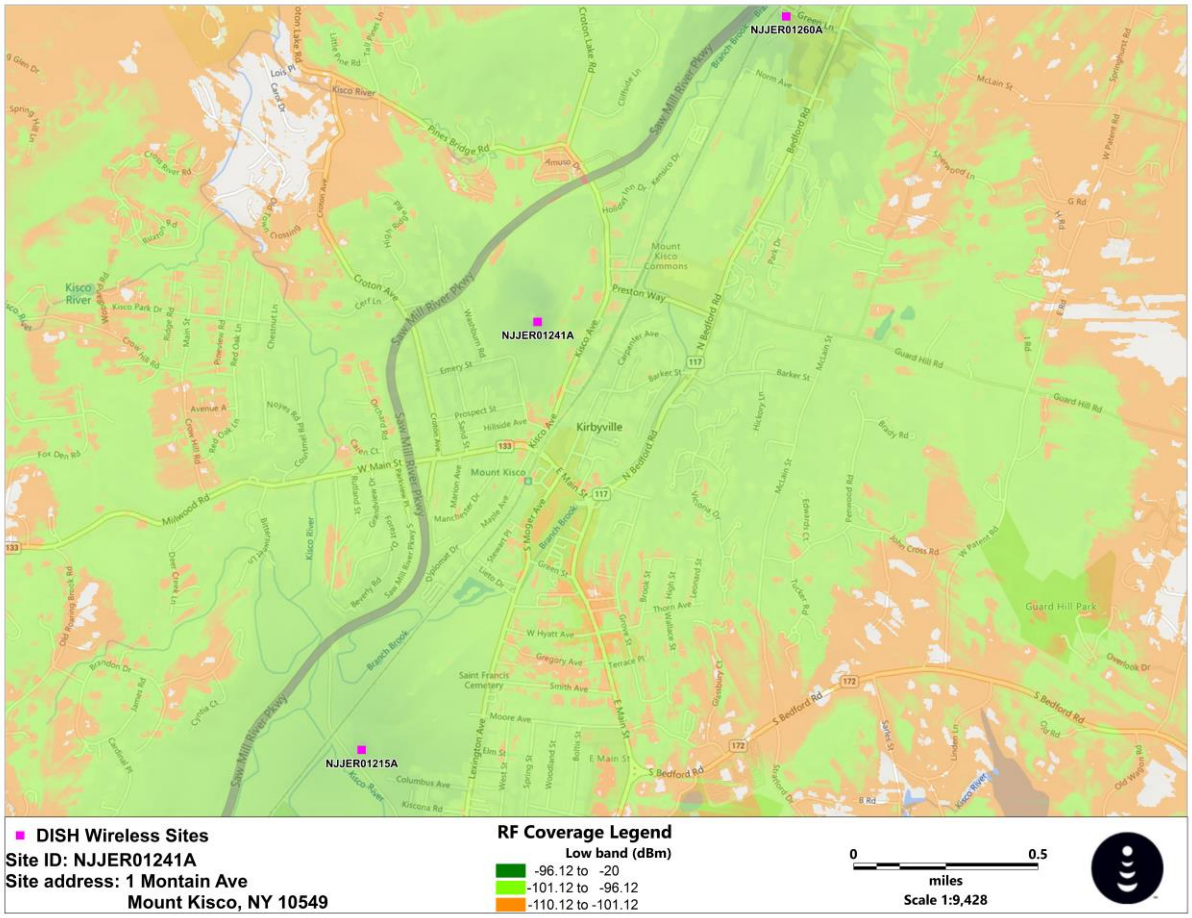
Design thresholds – Signal strength levels		
	-20 to -96.12 dBm	Urban In-building
	-101.12 to -96.12 dBm	Suburban In-building
	-110.12 to -101.12 dBm	On-Street Portable

7 RF Propagation Plots

Propagation Maps: Before



Propagation Maps: After



8 FCC Licensed Frequencies

FCC licenses:

- ParkerB.com Wireless L.L.C. (600 MHz)
- Manifest Wireless L.L.C. (700 MHz)
- American H Block Wireless L.L.C. (H Block)
- Gamma Acquisition L.L.C. and DBSD Corporation (AWS-4)

[DISH Network Corporation subsidiaries that hold the relevant FCC licenses] Licenses have been attached.

Planned Tx/Rx frequencies:

Frequencies (MHz)	n29	n66	n70	n71
Downlink (Tx)	-	|2155 - 2165| |2180 - 2200|	|1995 - 2020|	|632 - 652|
Uplink (Tx)	-	|1755 - 1765|	|1915 - 1920|	|678 - 698|

9 Class and Type of Service

Proposed site will allow for a 5G network to be built from the ground-up and deployed with a systems architecture that can take full advantage of functionality and recent advances in 5G. The DISH 5G OpenRAN network is a stand-alone virtualized network, which means it is not tied to any legacy systems (i.e. 3G/4G), allowing us to leverage cloud technology and avoid switching infrastructure built during previous generations which required more frequent improvements & structure loading.

10 Appendix

Call Sign WQZM398; Radio Service WT 600 MHz Band

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: PARKERB.COM WIRELESS L.L.C.

ATTN: JEFFREY BLUM
PARKERB.COM WIRELESS L.L.C.
PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM398	
Radio Service: WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	D	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

Waivers/Conditions:

Special Condition 1 (9/11/2020): Licensee is an indirect, wholly owned subsidiary of DISH Network Corporation (DISH). This license is subject to licensee's compliance with the conditions and restrictions imposed by the Commission in MO&O, Declaratory Ruling and Order of Proposed Modification, FCC 19-103 and the commitments made by DISH in its July 26, 2019 Commitments Letter including Attachment A thereto (see, e.g., FCC 19-103 at App. H), as modified by the Commission, both of which are incorporated by reference into and made operative by Order of Modification and Extension of Time to Construct, DA 20-1072 (WTB Sept. 11, 2020). These conditions, restrictions and commitments include, but are not limited to, the following (see FCC 19-103 and DA 20-1072 forfurther information):

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October 2017

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PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM399	
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	E	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

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ENGELWOOD, CO 80155

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WQZM400	
Radio Service: WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	F	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

Waivers/Conditions:

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ATTN: JEFFREY BLUM
PARKERB.COM WIRELESS L.L.C.
PO BOX 6663
ENGELWOOD, CO 80155

Call Sign	File Number
WQZM401	
Radio Service: WT - 600 MHz Band	

FCC Registration Number (FRN): 0025268459

Grant Date	Effective Date	Expiration Date	Print Date
06-14-2017	09-11-2020	06-14-2029	

Market Number	Channel Block	Sub-Market Designator
PEA001	G	0

Market Name
New York, NY

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	06-14-2025		

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Call Sign T060430010; Radio Service AD- AWS-4 (2000 -2020 MHz and 2180 – 2200 MHz)

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: GAMMA ACQUISITION L.L.C

ATTN: ALISON MINEA
GAMMA ACQUISITION L.L.C
1110 VERMONT AVENUE, NW SUITE 750
WASHINGTON, DC 20005

Call Sign	File Number
T060430010	
Radio Service AD - AWS-4 (2000-2020 MHz and 2180-2200 MHz)	

FCC Registration Number (FRN): 0021004817

Grant Date	Effective Date	Expiration Date	Print Date
03-07-2013	09-11-2021	06-14-2023	

Market Number	Channel Block	Sub-Market Designator
BEA010	A	0

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
03-07-2017	06-14-2023		

Waivers/Conditions:

Conditions:
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Call Sign WQTX209; Radio Service AH- AWS-H (at 1915 - 1920 MHz and 1995 – 2000 MHz)

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: AMERICAN H BLOCK WIRELESS L.L.C.

ATTN: OFFICE GEN. COUNSEL, LEGAL DEPT.
AMERICAN H BLOCK WIRELESS L.L.C.
PO BOX 6663
ENGLEWOOD, CO 80155-6663

Call Sign	File Number
WQTX209	
Radio Service AH - AWS-H Block (at 1915-1920 MHz and 1995-2000 MHz)	

FCC Registration Number (FRN): 0023125057

Grant Date	Effective Date	Expiration Date	Print Date
04-29-2014	09-11-2020	06-14-2023	05-07-2021

Market Number	Channel Block	Sub-Market Designator
BEA010	H	0

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
04-29-2018	06-14-2023		

Waivers/Conditions:

NONE

Conditions:

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FCC 601-MB
October 2017

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Construction Drawings

DISH Wireless L.L.C. SITE ID:

NJJER01241A

DISH Wireless L.L.C. SITE ADDRESS:

1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

NEW YORK CODE OF COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES

CODE TYPE	CODE
BUILDING	2018 IBC
MECHANICAL	2018 IMC
ELECTRICAL	2017 NEC

SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL, COMPOUND AND ENLARGED SITE PLANS
A-2	ELEVATION, ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-4	EQUIPMENT DETAILS
A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE & PANEL SCHEDULE
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
GN-1	LEGEND AND ABBREVIATIONS
GN-2	RF SIGNAGE
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES
GN-5	GENERAL NOTES

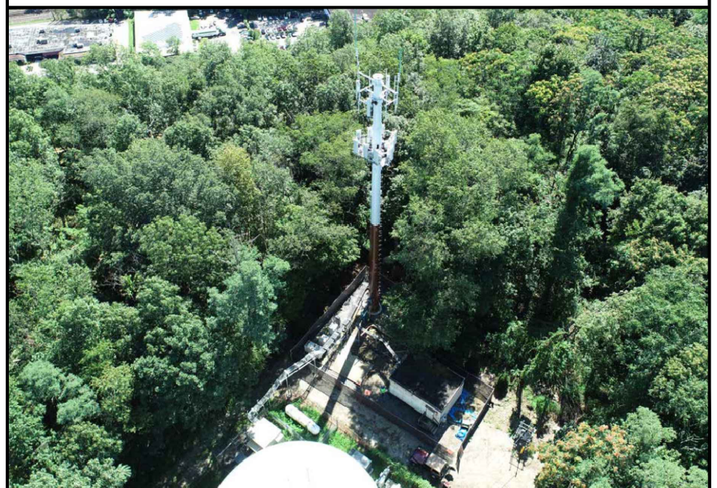
SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

TOWER SCOPE OF WORK:
- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR)
- INSTALL (1) PROPOSED ANTENNA PLATFORM MOUNT
- INSTALL PROPOSED JUMPERS
- INSTALL (6) PROPOSED RRUs (2 PER SECTOR)
- INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
- INSTALL (1) PROPOSED HYBRID CABLE

GROUND SCOPE OF WORK:
- INSTALL (1) PROPOSED METAL PLATFORM
- INSTALL (1) PROPOSED ICE BRIDGE
- INSTALL (1) PROPOSED PPC CABINET
- INSTALL (1) PROPOSED EQUIPMENT CABINET
- INSTALL (1) PROPOSED POWER CONDUIT
- INSTALL (1) PROPOSED TELCO CONDUIT
- INSTALL (1) PROPOSED TELCO-FIBER BOX
- INSTALL (1) PROPOSED GPS UNIT
- INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED)
- INSTALL (1) PROPOSED FIBER NID (IF REQUIRED)
- INSTALL (1) PROPOSED METER SOCKET

SITE PHOTO



UNDERGROUND SERVICE ALERT - NEW YORK 811
UTILITY NOTIFICATION CENTER OF NEW YORK
(800) 272-4480
WWW.NEWYORK-811.COM

CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

811

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

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

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

SITE INFORMATION

PROPERTY OWNER:	VILLAGE OF MOUNT KISCO
ADDRESS:	EMERY STREET BEDFORD, NY 10508
TOWER TYPE:	MONOPOLE
TOWER CO SITE ID:	843210
TOWER APP NUMBER:	548717
COUNTY:	WESTCHESTER
LATITUDE (NAD 83):	41° 12' 52.43" N 41.214565 N
LONGITUDE (NAD 83):	73° 43' 45.58" W 73.729328 W
ZONING JURISDICTION:	VILLAGE OF MOUNT KISCO
ZONING DISTRICT:	RT-6
PARCEL NUMBER:	5601-069-056-00004-000-0007
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	II-B
POWER COMPANY:	CON EDISON
TELEPHONE COMPANY:	TBD

PROJECT DIRECTORY

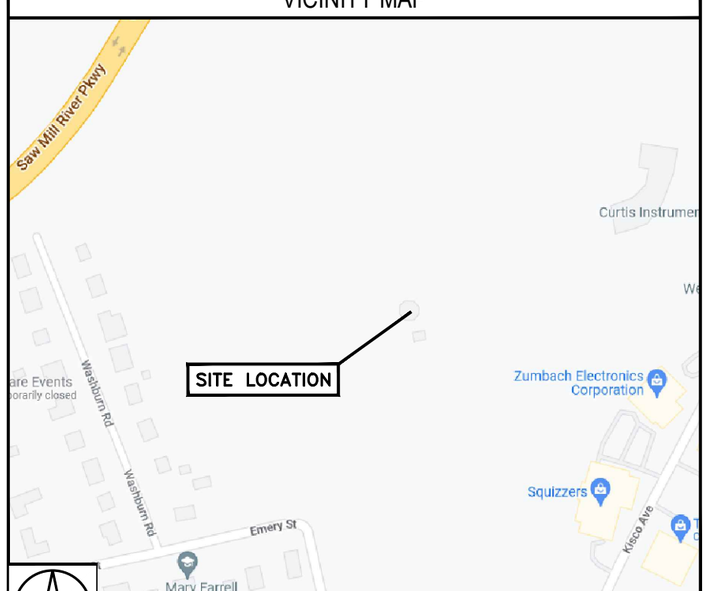
APPLICANT:	DISH Wireless L.L.C. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317 (877) 486 - 9377
SITE DESIGNER:	KMB DESIGN GROUP 1800 ROUTE 34, SUITE 209 WALL, NJ 07719 (732) 280-5623
SITE ACQUISITION:	JACQUELINE JONES jacqueline.jones.contractor@crowncastle.com
CONSTRUCTION MANAGER:	MICHAEL NARDUCCI michael.narducci@dish.com
RF ENGINEER:	PAWAN MADAHAR pawan.madahar@dish.com

DIRECTIONS

DIRECTIONS FROM 3 ADP BLVD ROSELAND, NJ 07068, USA:

GET ON I-280 W FROM LIVINGSTON AVE, HEAD NORTHEAST ON ADP BLVD TOWARD CHOCTAW WAY, TURN RIGHT ONTO CHOCTAW WAY, USE THE RIGHT LANE TO TURN RIGHT ONTO LIVINGSTON AVE, USE THE RIGHT LANE TO MERGE WITH I-280 W VIA THE RAMP TO PARSIPPANY, FOLLOW I-280 W TO NEW RD IN PARSIPPANY-TROY HILLS. TAKE EXIT 1 FROM I-280 W, MERGE WITH I-280 W, TAKE EXIT 1 TO MERGE WITH NEW RD, GET ON I-287 N, MERGE WITH NEW RD, USE THE LEFT 2 LANES TO TURN LEFT ONTO US-46 W, USE THE RIGHT LANE TO MERGE WITH I-287 N VIA THE RAMP TO MAHWAH, FOLLOW I-287 N AND I-87 S TO SAW MILL PKWY N/SAW MILL RIVER PKWY N IN ELMSFORD. TAKE EXIT 8A FROM I-87 S, MERGE WITH I-287 N ENTERING NEW YORK, USE THE RIGHT 2 LANES TO TAKE THE I-87 S/NEW YORK STATE THRUWAY /I-287 EXIT TOWARD GOV MARIO M. CUOMO BR/NEW YORK CITY, MERGE WITH I-87 S, KEEP LEFT TO CONTINUE ON I-287 E/I-87 S, KEEP RIGHT AT THE Y JUNCTION TO CONTINUE ON I-87 S, FOLLOW SIGNS FOR N.Y.CITY /SAW MILL PKWY S, TAKE EXIT 8A FOR NY-119/SAW MILL PKWY N TOWARD ELMSFORD, KEEP LEFT, FOLLOW SIGNS FOR SAW MILL RIVER PKWY/KATONAH AND MERGE ONTO SAW MILL PKWY N/SAW MILL RIVER PKWY N, FOLLOW SAW MILL PKWY N/SAW MILL RIVER PKWY N TO YOUR DESTINATION IN MOUNT KISCO, MERGE WITH SAW MILL PKWY N/SAW MILL RIVER PKWY N, TAKE EXIT 34 TOWARD NY-133/MOUNT KISCO, CONTINUE ONTO S CROTON AVE, TURN RIGHT ONTO W MAIN ST, TURN LEFT ONTO KISCO AVE, TURN LEFT, THE DESTINATION WILL BE ON RIGHT

VICINITY MAP



NO SCALE

dish wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

KMB DESIGN GROUP
kmbdg.com
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK · STEPHEN A BRAY · 086064 · LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

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0	05/19/2022	ISSUED FOR PERMIT FILING
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2	02/10/2023	REVISED PER CLIENT COMMENTS
3	05/16/2023	REVISED PER CLIENT COMMENTS
4	09/20/2023	REVISED PER ATTORNEY COMMENTS

A&E PROJECT NUMBER

336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

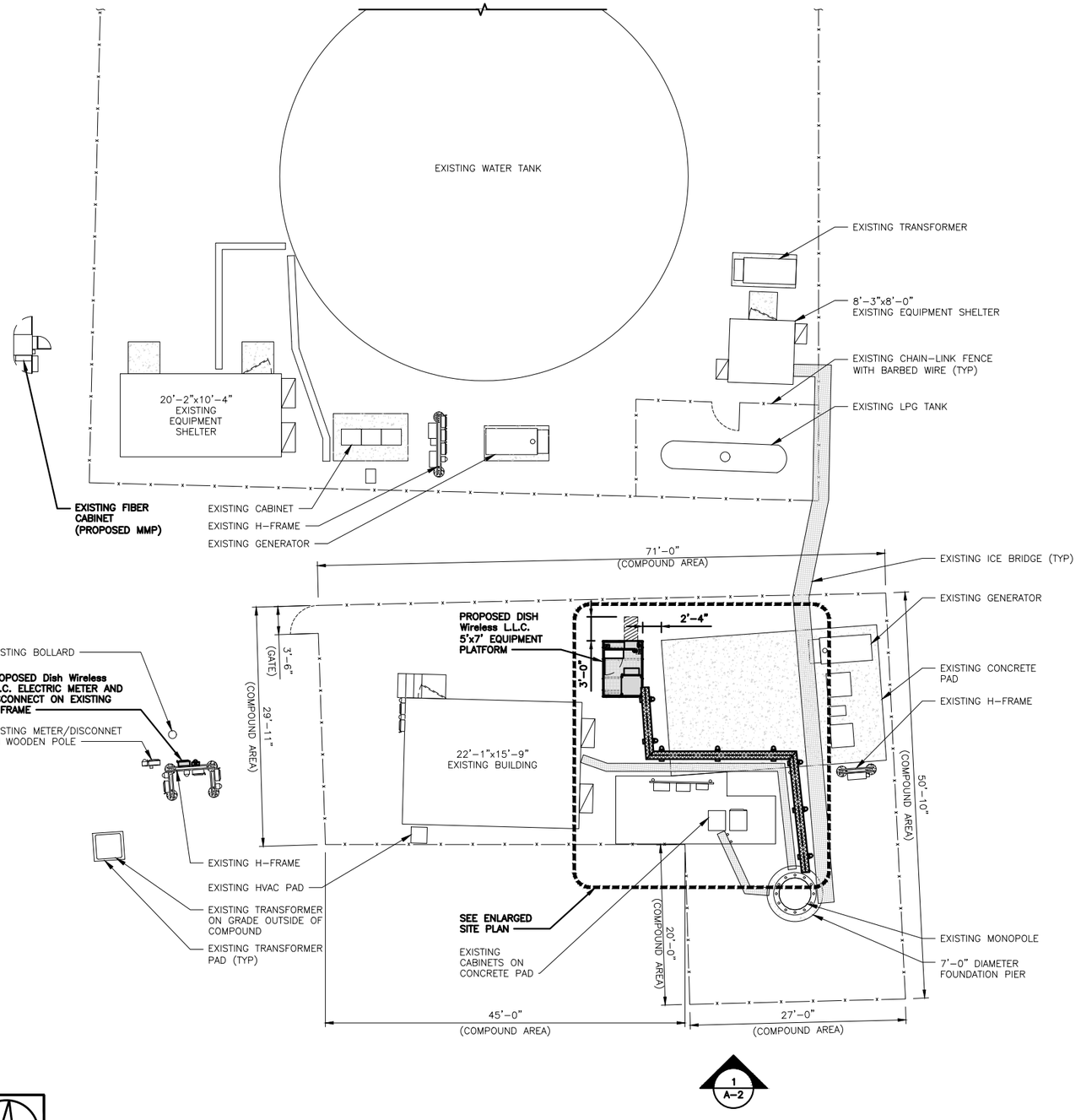
TITLE SHEET

SHEET NUMBER

T-1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



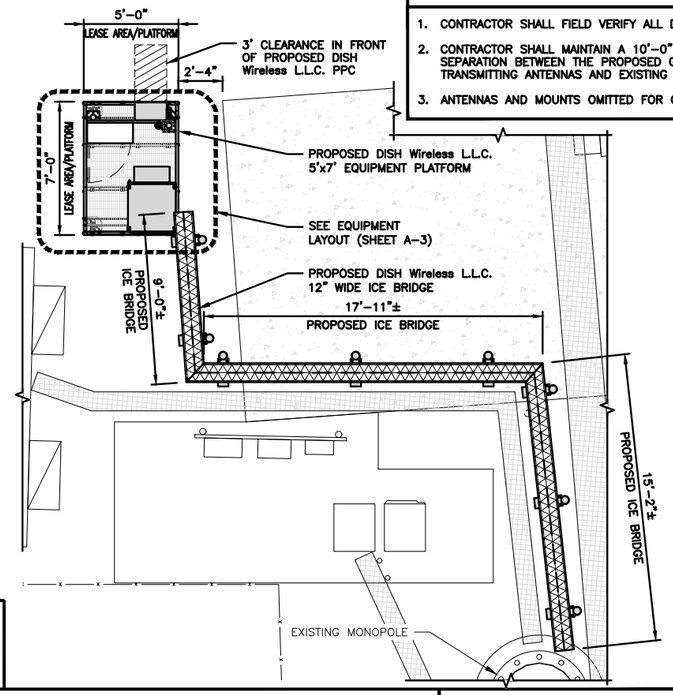
COMPOUND SITE PLAN

16' 12' 8' 4' 0 16' 32'
1/16"=1'-0"

1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



ENLARGED SITE PLAN

12" 6" 0 1' 2' 3' 4' 5' 6' 7'
3/8"=1'-0"

2

NOT USED

NO SCALE

3

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AAB	---	---

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A&E PROJECT NUMBER

336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

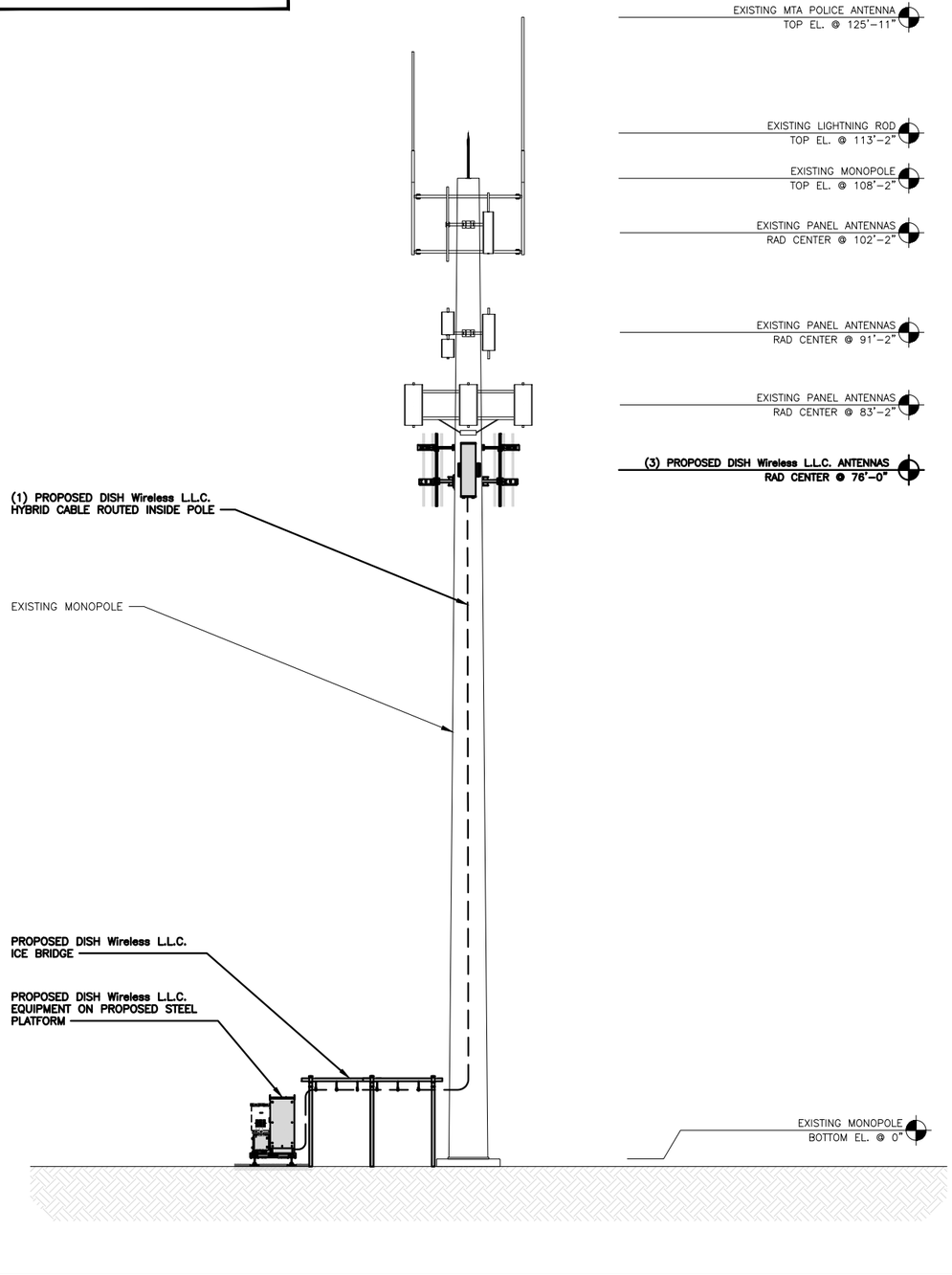
OVERALL AND ENLARGED SITE PLAN

SHEET NUMBER

A-1

NOTES

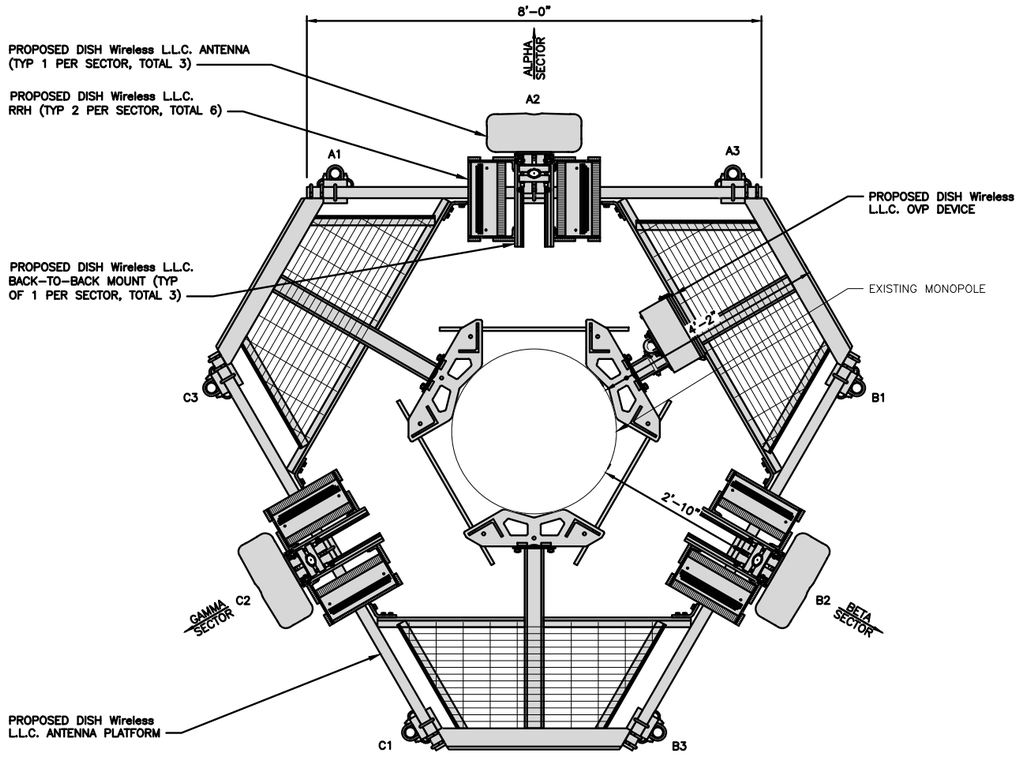
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



PROPOSED SOUTHEAST ELEVATION

8' 4' 0 8' 16'
1/8"=1'-0"

1



ANTENNA LAYOUT

12" 6" 0 1' 2' 3'
3/4"=1'-0"

2

SECTOR POS.	ANTENNA					TRANSMISSION CABLE	RRH			OVP
	EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER – MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL
A1	--	--	--	--	--	(1) HIGH-CAPACITY HYBRID CABLE (130' LONG)	FUJITSU – TA08025-B605	5G	A2	RAYCAP RDIDC-9181-PF-48
A2	PROPOSED	COMMSCOPE – FFVV-65B-R2	5G	0°	76'-0"		FUJITSU – TA08025-B604	5G	A2	
A3	--	--	--	--	--		--	--	--	
B1	--	--	--	--	--	SHARED W/ALPHA	FUJITSU – TA08025-B605	5G	B2	SHARED W/ALPHA
B2	PROPOSED	COMMSCOPE – FFVV-65B-R2	5G	120°	76'-0"		FUJITSU – TA08025-B604	5G	B2	
B3	--	--	--	--	--		--	--	--	
C1	--	--	--	--	--	SHARED W/ALPHA	FUJITSU – TA08025-B605	5G	C2	SHARED W/ALPHA
C2	PROPOSED	COMMSCOPE – FFVV-65B-R2	5G	240°	76'-0"		FUJITSU – TA08025-B604	5G	C2	
C3	--	--	--	--	--		--	--	--	

NOTES

1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA SCHEDULE

NO SCALE

3

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LITTLETON, CO 80120

KMB DESIGN GROUP
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1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A BRAY
086064
LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064
9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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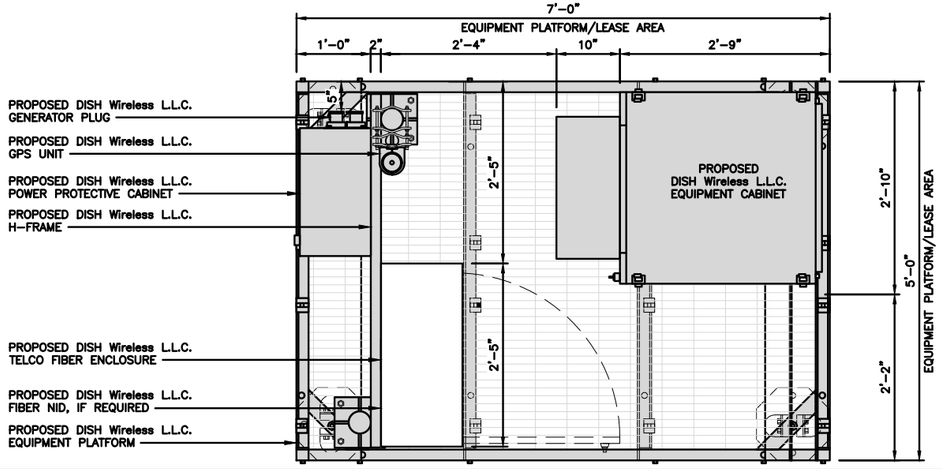
A&E PROJECT NUMBER
336.4160.A10

DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
ELEVATION, ANTENNA LAYOUT AND SCHEDULE

SHEET NUMBER
A-2



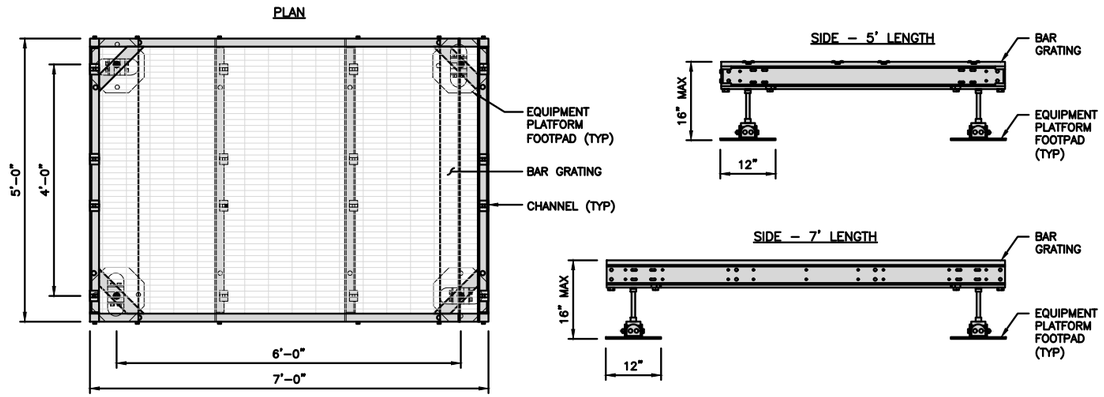
PLATFORM EQUIPMENT PLAN

12" 9" 6" 3" 0 1' 2'
1"=1'-0"

1

COMMSCOPE MTC4045LP 5X7 PLATFORM	
DIMENSIONS (HxWxD)	16"x84"x60"
TOTAL WEIGHT	423 LBS

NOTE:
GC TO PROVIDE EXTENDED THREAD FOR PLATFORM IF REQUIRED HEIGHT EXCEEDS 17"



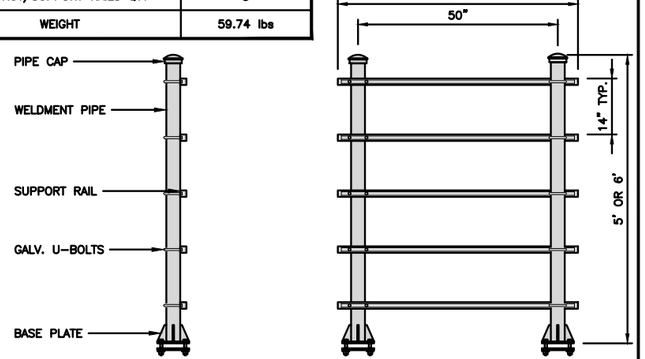
PLATFORM DETAIL

NO SCALE

2

COMMSCOPE MTC4045HFLD H-FRAME	
UNISTRUT/SUPPORT RAILS QTY	5
WEIGHT	59.74 lbs

NOTE:
OR DISH Wireless L.L.C. APPROVED EQUIVALENT



H-FRAME DETAIL

NO SCALE

3

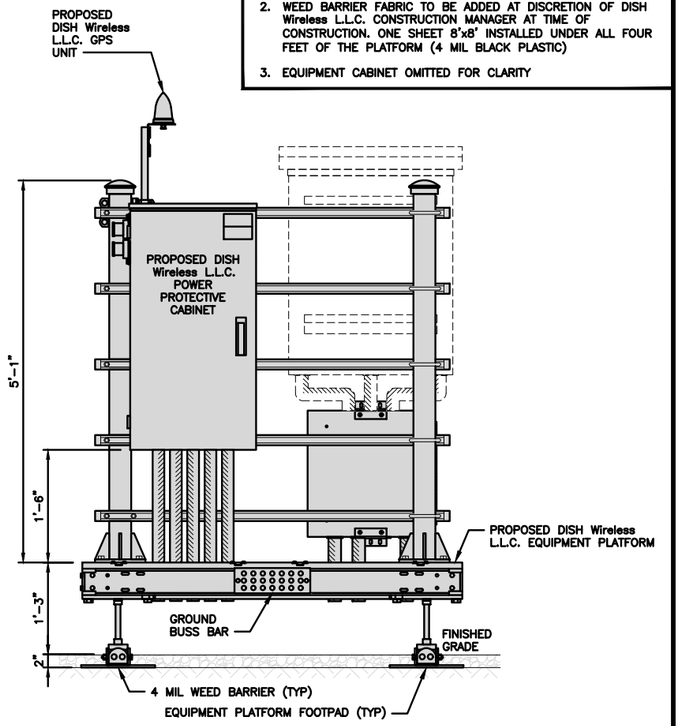
NOT USED

NO SCALE

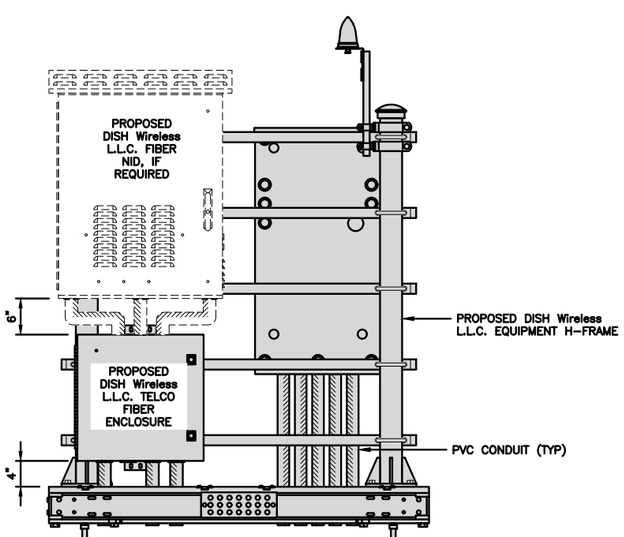
4

NOTES

1. CONTRACTOR TO BURY PLATFORM FEET WITH A MINIMUM OF 2" OF FILL PER EXISTING SITE SURFACE
2. WEED BARRIER FABRIC TO BE ADDED AT DISCRETION OF DISH Wireless L.L.C. CONSTRUCTION MANAGER AT TIME OF CONSTRUCTION. ONE SHEET 8'x8' INSTALLED UNDER ALL FOUR FEET OF THE PLATFORM (4 MIL BLACK PLASTIC)
3. EQUIPMENT CABINET OMITTED FOR CLARITY



FRONT ELEVATION



BACK ELEVATION

H-FRAME EQUIPMENT ELEVATION

12" 9" 6" 3" 0 1' 2'
1"=1'-0"

5

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LITTLETON, CO 80120

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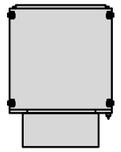
A&E PROJECT NUMBER
336.4160.A10

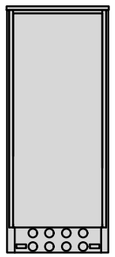
DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

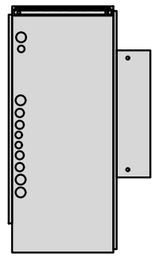
SHEET TITLE
EQUIPMENT PLATFORM AND H-FRAME DETAILS

SHEET NUMBER
A-3

ENERSYS HEX 20000059996	
DIMENSIONS (HxWxD)	73"x30"x32"
POWER SYSTEM	-48V ALPHA/600A
HEATER	800W
TOTAL WEIGHT (EMPTY)	376 lbs


PLAN


BACK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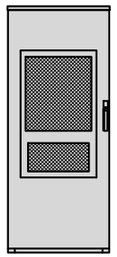
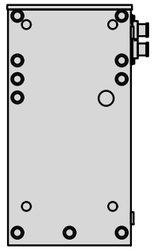

FRONT

CABINET DETAIL | NO SCALE | 1

RAYCAP PPC RDIAC-2465-P-240-MTS	
ENCLOSURE DIMENSIONS (HxWxD):	39"x22.855"x12.593
WEIGHT:	80 lbs
OPERATING AC VOLTAGE	240/120 1 PHASE 3W+G


TOP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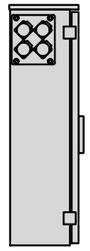
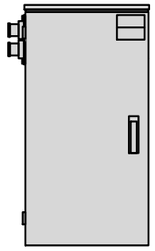

SIDE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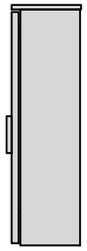
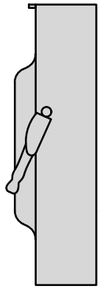

SIDE

POWER PROTECTION CABINET (PPC) DETAIL | NO SCALE | 2

SQUARE D SAFETY SWITCHES D224NRB	
ENCLOSURE DIM (HxWxD)	29.25"x19.00"x8.50"
ENCLOSURE TYPE	NEMA 3R RAINPROOF
UL LISTED	FILE E-2875


TOP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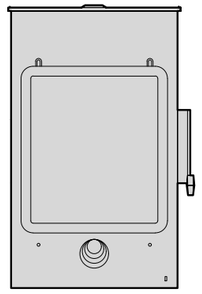
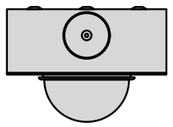
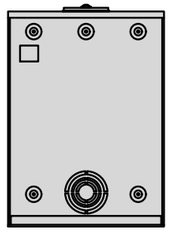
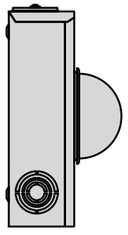

FRONT

SAFETY SWITCH DETAIL | NO SCALE | 3

EATON METER SOCKET UNRRS213BEUSE	
DIMENSIONS (HxWxD)	16"x12"x6"
TYPE	RING
AMPERAGE RATING	200 CONT. AMP
WEIGHT	18 lbs


TOP


BACK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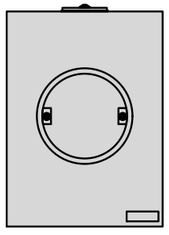
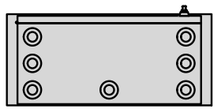

FRONT

METER BANK DETAIL | NO SCALE | 4

ZAYO 5RU (LEFT SWING DOOR) FIBER NID ENCLOSURE	
DIMENSIONS (HxWxD)	36.1"x29"x12.9"
WEIGHT	85 lbs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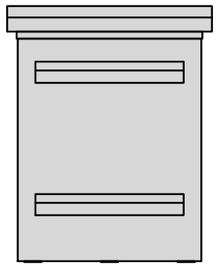
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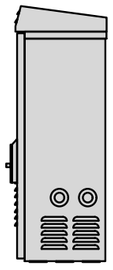
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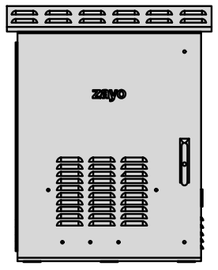
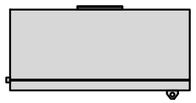


FRONT

FIBER NID ENCLOSURE DETAIL | NO SCALE | 5

CHARLES CFIT-PF2020DSH1 FIBER TELCO ENCLOSURE	
ENCLOSURE DIMS (HxWxD)	20"x20"x9"
ENCLOSURE WEIGHT	20 lbs
MOUNTING	WALL
COMPLIANCE	TYPE 4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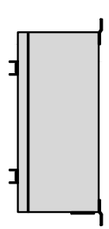
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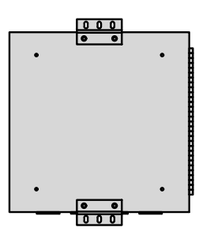
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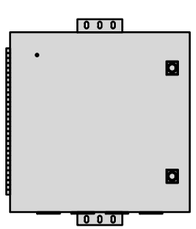
FRONT

FIBER TELCO ENCLOSURE DETAIL | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

dish wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

KMB DESIGN GROUP
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WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK · STEPHEN A BRAY · LICENSED PROFESSIONAL ENGINEER · 086064

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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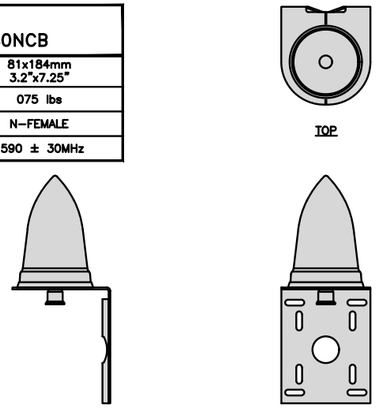
A&E PROJECT NUMBER
336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

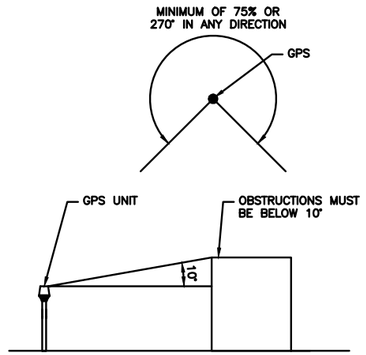
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-4

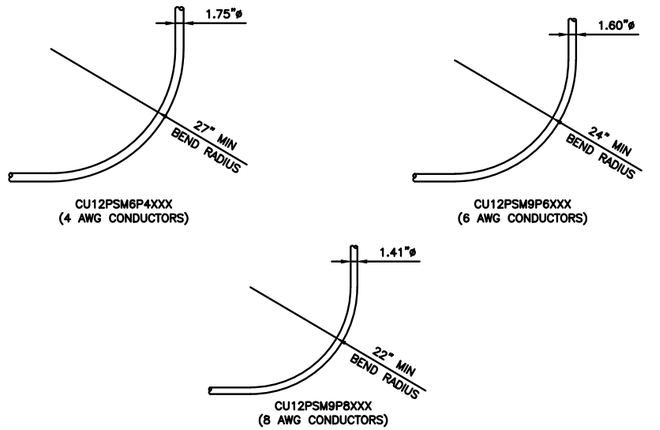
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



GPS DETAIL | NO SCALE | 1



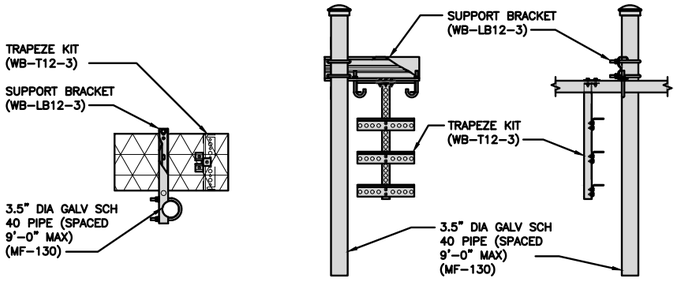
GPS MINIMUM SKY VIEW REQUIREMENTS | NO SCALE | 2



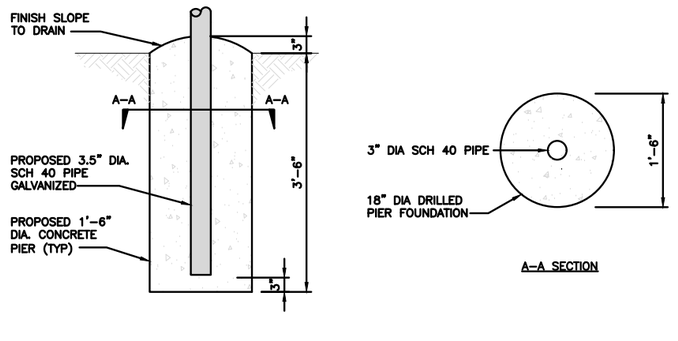
CABLES UNLIMITED HYBRID CABLE
MINIMUM BEND RADIUSES | NO SCALE | 3

COMMSCOPE WB-K110-B WAVEGUIDE BRIDGE KIT	
DIMENSIONS (HxL)	160"x10'
WEIGHT/ VOLUME	325.0 LBS
CABLE RUN (QTY)	12

INCLUDED PRODUCTS:	
	WB-T12-3 TRAPEZE KIT, 3 RUNGS
	WB-LB12-3 SUPPORT BRACKET
	MF-130 DIRECT BURIAL PIPE COLUMN, 13'-4"

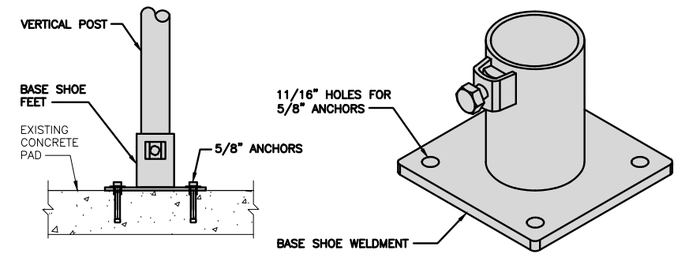


ICE BRIDGE DETAIL | NO SCALE | 4

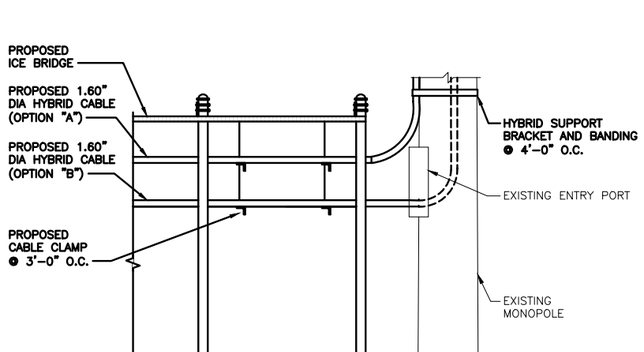


TYPICAL ICE BRIDGE CONCRETE PIER DETAIL | NO SCALE | 5

SITEPRO1 BSF35 BASE SHOE FEET	
DIMENSIONS (HxWxL)	8"x8"x1/2"
WEIGHT	15.0 LBS
POST SIZE:	2-7/8" OR 3-1/2"



ICE BRIDGE PIPE MOUNT DETAIL | NO SCALE | 6



HYBRID CABLE RUN | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

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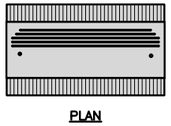
336.4160.AI0

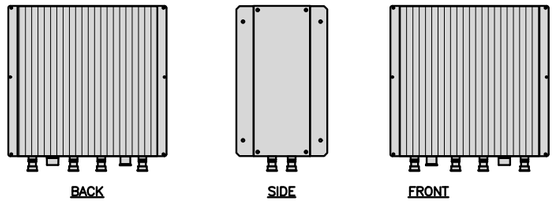
DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-5

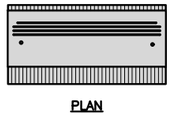
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V

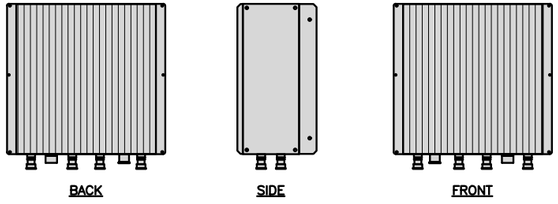




RRH DETAIL | NO SCALE | 1

FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V

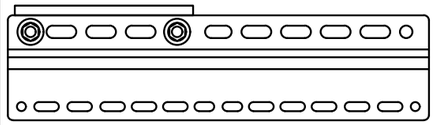


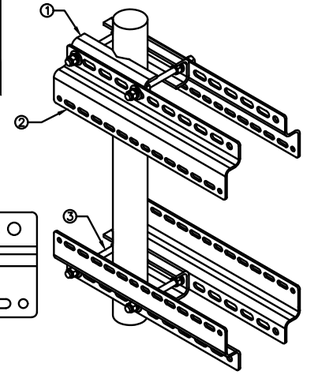


RRH DETAIL | NO SCALE | 2

SABRE DOUBLE Z-BRACKET C10123155	
DIMENSIONS (HxWxD) (1 BRACKET)	5"x20"x1-13/16"
WEIGHT (FULL ASSEMBLY)	35.79 lbs
PACKAGE QUANTITY	4

#	DESCRIPTION
1	PLATE, CHANNEL BRACKET
2	RRH Z BRACKET, 3/16"
3	THREADED ROD ASSEMBLY 1/2"x12"

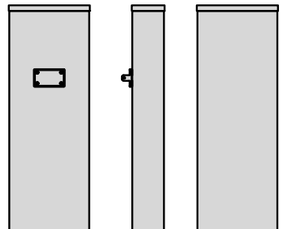




NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

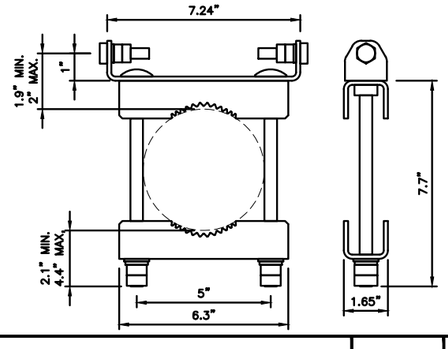
RRH MOUNT DETAIL | NO SCALE | 3

COMMSCOPE FFVV-65B-R2	
DIMENSIONS (HxWxD)(MM/IN)	1828x498x197 72"x19.6"x7.8"
RF CONNECTOR INTERFACE	4.3-10 FEMALE
WEIGHT	70.8 lbs
WEIGHT WITH BRACKETS	98.1 lbs



ANTENNA DETAIL | NO SCALE | 4

COMMSCOPE ANTENNA BRACKET BSAMNT-F	
DIAMETER COMPATIBILITY	2.402" - 4.5"
NET WEIGHT	7.937 lbs

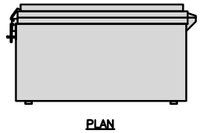


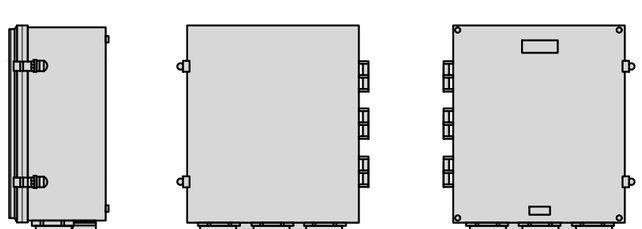
NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

ANTENNA BRACKET DETAIL | NO SCALE | 5

NOT USED | NO SCALE | 6

RAYCAP RDIDC-9181-PF-48 DC SURGE PROTECTION (OVP)	
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS

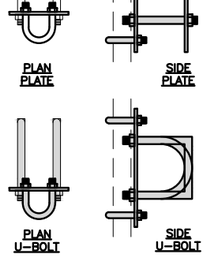


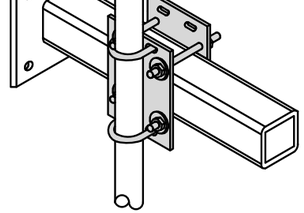


SURGE SUPPRESSION DETAIL (OVP) | NO SCALE | 7

COMMSCOPE XP-2040 CROSSOVER PLATE	
DIMENSIONS (HxW)	10"x12"
WEIGHT	11 lbs

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

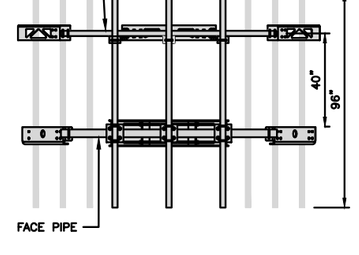


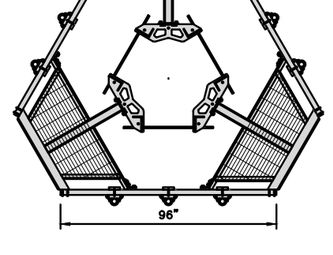


RRH/OVP MOUNT DETAIL | NO SCALE | 8

COMMSCOPE MC-PK8-DSH	
FACE WIDTH	96"
WEIGHT	1373.08 lbs
NOTE: 15" TO 38" O.D.	

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT





ANTENNA PLATFORM DETAIL | NO SCALE | 9

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LITTLETON, CO 80120

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A&E PROJECT NUMBER
336.4160.AI0

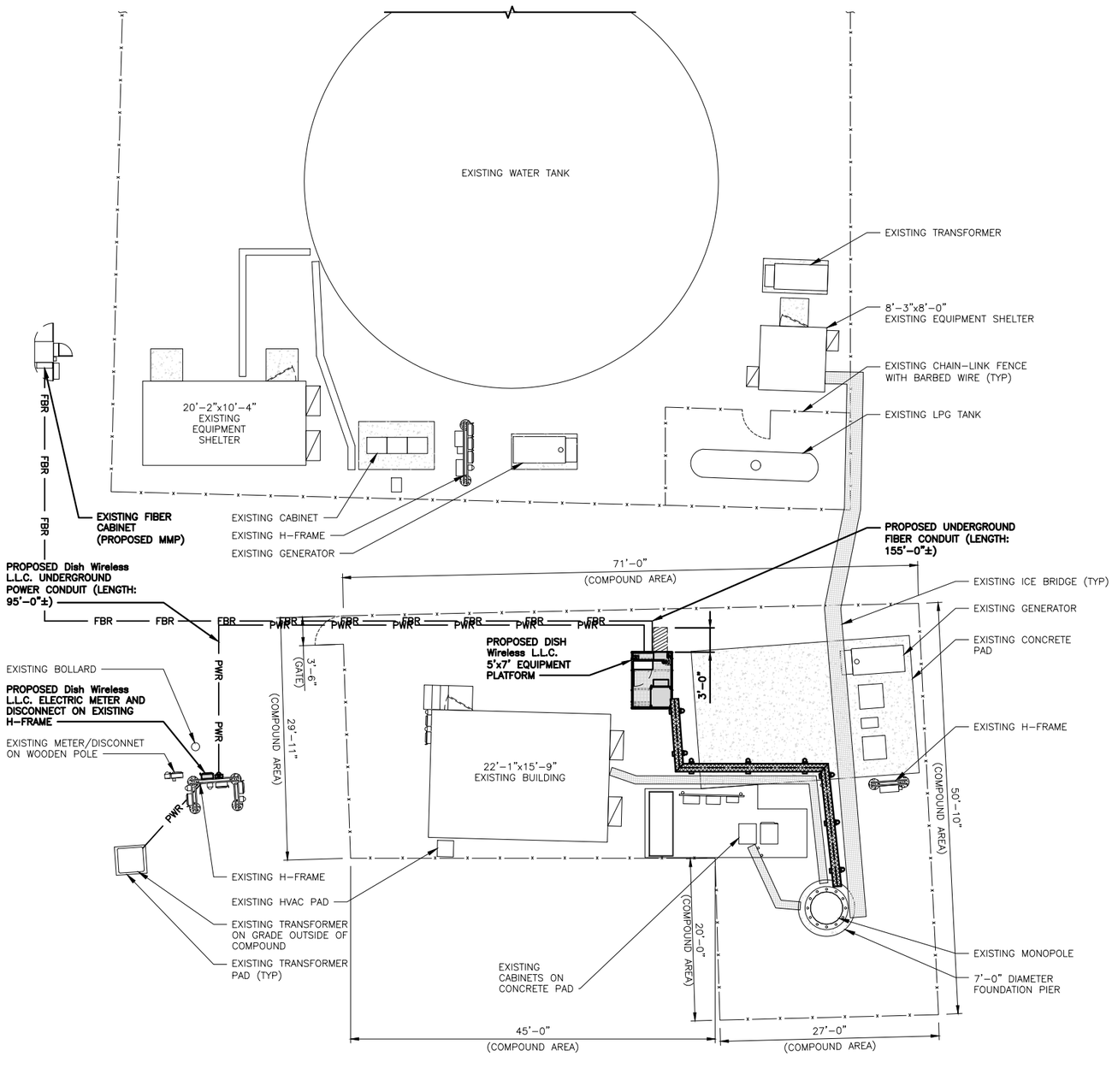
DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-6

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED UNDERGROUND UTILITY CONDUIT ROUTE.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.
3. DUE TO UTILITY EASEMENT RIGHTS SPECIFIED IN THE GROUND LEASE, CUSTOMER MAY INSTALL EQUIPMENT WITHIN SPECIFIED UTILITY EASEMENT AREA. "PWR" AND "FBR" PATH DEPICTED ON A–1 AND E–1 REPRESENT PLANNED ROUTING BASED ON BEST AVAILABLE INFORMATION INCLUDING BUT NOT LIMITED TO A SURVEY, EXHIBITS, METES AND BOUNDS OF THE UTILITY EASEMENT, FIELD VERIFICATION, PRIOR PROJECT DOCUMENTATION AND OTHER REAL PROPETY RIGHTS DOCUMENTS. WHEN INSTALLING THE UTILITIES PLEASE LOCATE AND FOLLOW EXISTING PATH. IF EXISTING PATH IS MATERIALLY INCONSISTENT WITH "PWR" AND "FBR" PATH DEPICTED ON A–1 AND E–1 AND SAID VARIANCE IS NOT NOTED ON CDs, PLEASE NOTIFY TOWER OWNER AS FURTHER COORDINATION MAY BE NEEDED.



UTILITY ROUTE PLAN

6' 4' 2' 0 5' 10'
3/16"=1'–0"

1

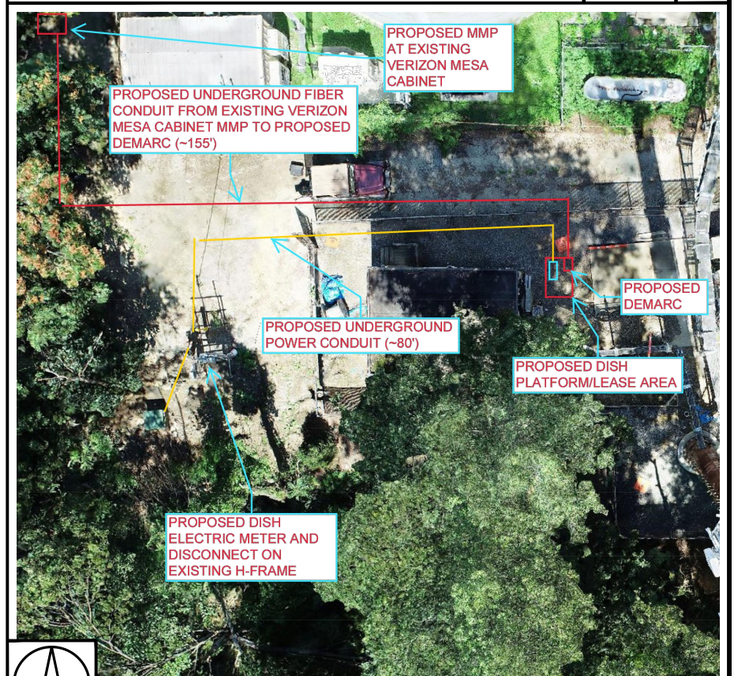
DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND –48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY –48V.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. CONDUIT ROUGH–IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC 250. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST–CONSTRUCTION EQUIPMENT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS–BUILT PANEL SCHEDULE AND SITE DRAWINGS.
13. ALL TRENCHES IN COMPOUND TO BE HAND DUG

ELECTRICAL NOTES

NO SCALE

2



FIBER ROUTES

NO SCALE

2

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LITTLETON, CO 80120

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4	09/20/2023	REVISED PER ATTORNEY COMMENTS

A&E PROJECT NUMBER

336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

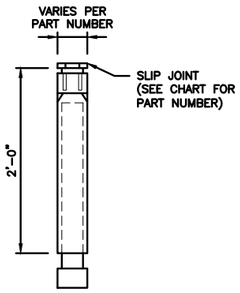
ELECTRICAL/FIBER ROUTE PLAN AND NOTES

SHEET NUMBER

E-1

CARLON EXPANSION FITTINGS

COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N	E945NX	4"	5	8"
E945P	E945PX	5"	1	8"
E945R	E945RX	6"	1	8"

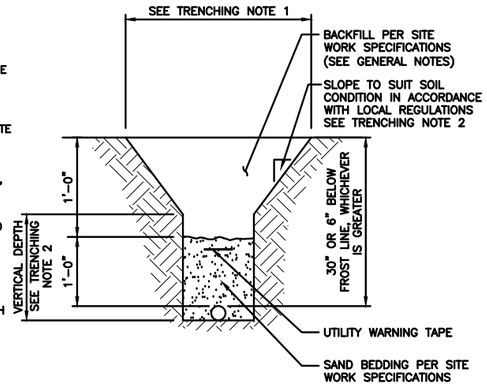


NOTE:
CONTRACTOR TO INSTALL EXPANSION FITTING SLIP JOINT AT METER CENTER CONDUIT TERMINATION, AS PER LOCAL UTILITY POLICY, ORDINANCE AND/OR SPECIFIED REQUIREMENT.

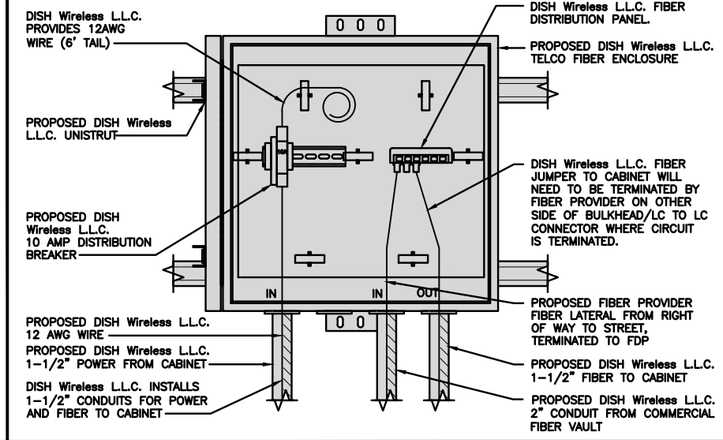
EXPANSION JOINT DETAIL | NO SCALE | 1

TRENCHING NOTES

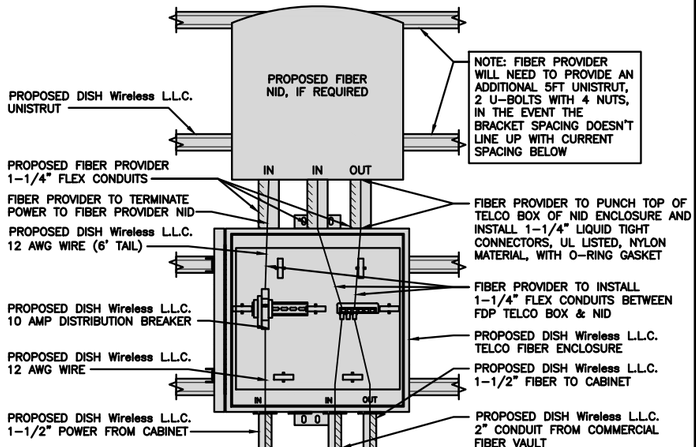
1. CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
2. TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
3. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.



TYPICAL UNDERGROUND TRENCH DETAIL | NO SCALE | 2



DARK TELCO BOX – INTERIOR WIRING LAYOUT | NO SCALE | 3



LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL) | NO SCALE | 4

NOT USED | NO SCALE | 5

NOT USED | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

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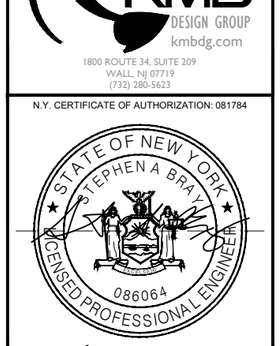
N.Y. CERTIFICATE OF AUTHORIZATION: 081784



Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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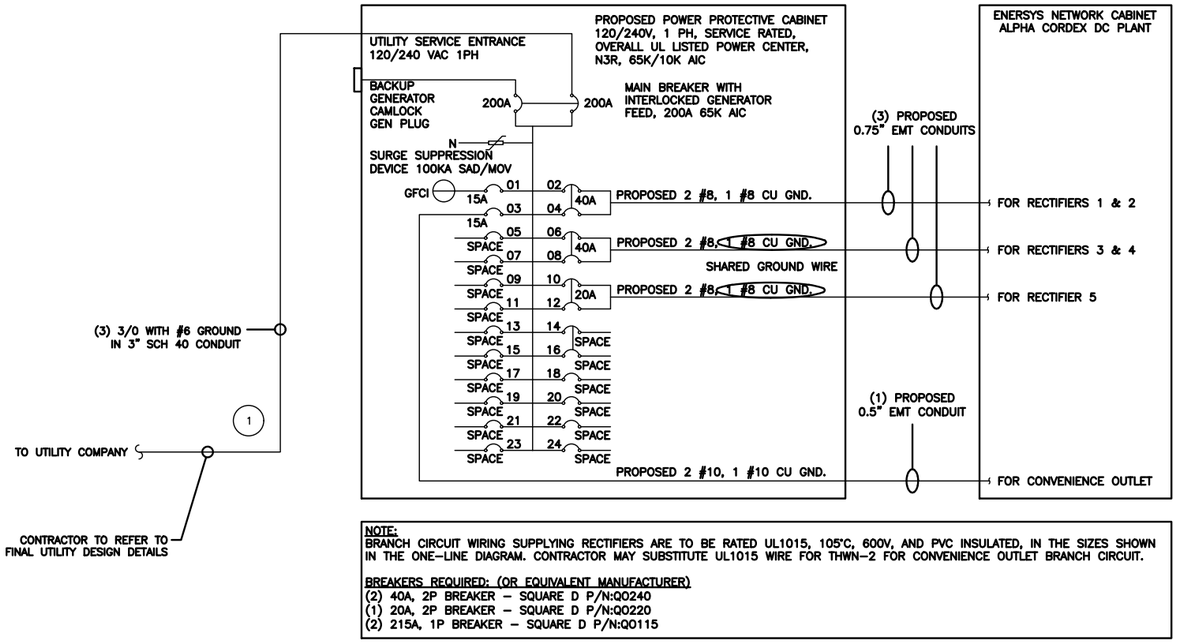
336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2



NOTE:
BRANCH CIRCUIT WIRING SUPPLYING RECTIFIERS ARE TO BE RATED UL1015, 105°C, 600V, AND PVC INSULATED, IN THE SIZES SHOWN IN THE ONE-LINE DIAGRAM. CONTRACTOR MAY SUBSTITUTE UL1015 WIRE FOR THWN-2 FOR CONVENIENCE OUTLET BRANCH CIRCUIT.

BREAKERS REQUIRED: (OR EQUIVALENT MANUFACTURER)
(2) 40A, 2P BREAKER – SQUARE D P/N:QO240
(1) 20A, 2P BREAKER – SQUARE D P/N:QO220
(2) 215A, 1P BREAKER – SQUARE D P/N:QO115

NOTES

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUIT AND FEEDERS COMPLY WITH THE NEC (LISTED ON T-1) ARTICLE 210.19(A)(1) FPN NO. 4.

CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 358.
0.5" CONDUIT – 0.122 SQ. IN AREA
0.75" CONDUIT – 0.213 SQ. IN AREA
2.0" CONDUIT – 1.316 SQ. IN AREA
3.0" CONDUIT – 2.907 SQ. IN AREA

CABINET CONVENIENCE OUTLET CONDUCTORS (1 CONDUIT): USING THWN-2, CU.

#10 – 0.0211 SQ. IN X 2 = 0.0422 SQ. IN
#10 – 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <GROUND
TOTAL = 0.0633 SQ. IN

0.5" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

RECTIFIER CONDUCTORS (3 CONDUITS): USING UL1015, CU.

#8 – 0.0552 SQ. IN X 2 = 0.1103 SQ. IN
#8 – 0.0131 SQ. IN X 1 = 0.0131 SQ. IN <BARE GROUND
TOTAL = 0.1234 SQ. IN

0.75" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU.

3/0 – 0.2679 SQ. IN X 3 = 0.8037 SQ. IN
#6 – 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <GROUND
TOTAL = 0.8544 SQ. IN

3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

1 OPTIONAL ALUMINUM SERVICE CONDUCTOR:
- 4/0 AL + #2 GRD MAY BE USED INSTEAD OF 3/0 CU + #6 GRD IF THE TOTAL LENGTH OF THE CONDUCTOR IS LESS THAN 300 FT FROM THE TRANSFORMER.
- ALUMINUM CONDUCTORS MUST BE 90°C TO CARRY THE FULL 200A LOAD REQUIRED
- ALUMINUM TO COPPER BUSS CONNECTIONS MUST MEET AND CONFORM TO ANSI AND BE UL LISTED. USE ANTI CORROSION CONDUCTIVE LUBRICANT ON CONNECTIONS

PPC ONE-LINE DIAGRAM | NO SCALE | 1

PROPOSED ENERSYS PANEL SCHEDULE

LOAD SERVED	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	LOAD SERVED
PPC GFCI OUTLET	180		15A	1	A	2	40A	3840		ENERSYS ALPHA CORDEX
ENERSYS GFCI OUTLET		180	15A	3	B	4			3840	RECTIFIERS 1 & 2
-SPACE-				5	A	6	40A	3840		ENERSYS ALPHA CORDEX
-SPACE-				7	B	8			3840	RECTIFIER 3 & 4
-SPACE-				9	A	10	20A	1920		ENERSYS ALPHA CORDEX
-SPACE-				11	B	12			1920	RECTIFIER 5
-SPACE-				13	A	14				-SPACE-
-SPACE-				15	B	16				-SPACE-
-SPACE-				17	A	18				-SPACE-
-SPACE-				19	B	20				-SPACE-
-SPACE-				21	A	22				-SPACE-
-SPACE-				23	B	24				-SPACE-
VOLTAGE AMPS	180	180						9500	9500	
200A MCB, 1φ, 24 SPACE, 120/240V			L1		L2					
MB RATING: 65,000 AIC			9680		9680		VOLTAGE AMPS			
			81		81		AMPS			
			81				MAX AMPS			
			102				MAX 125%			

PANEL SCHEDULE | NO SCALE | 2

NOT USED | NO SCALE | 3

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N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A BRAY
086064
LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064
9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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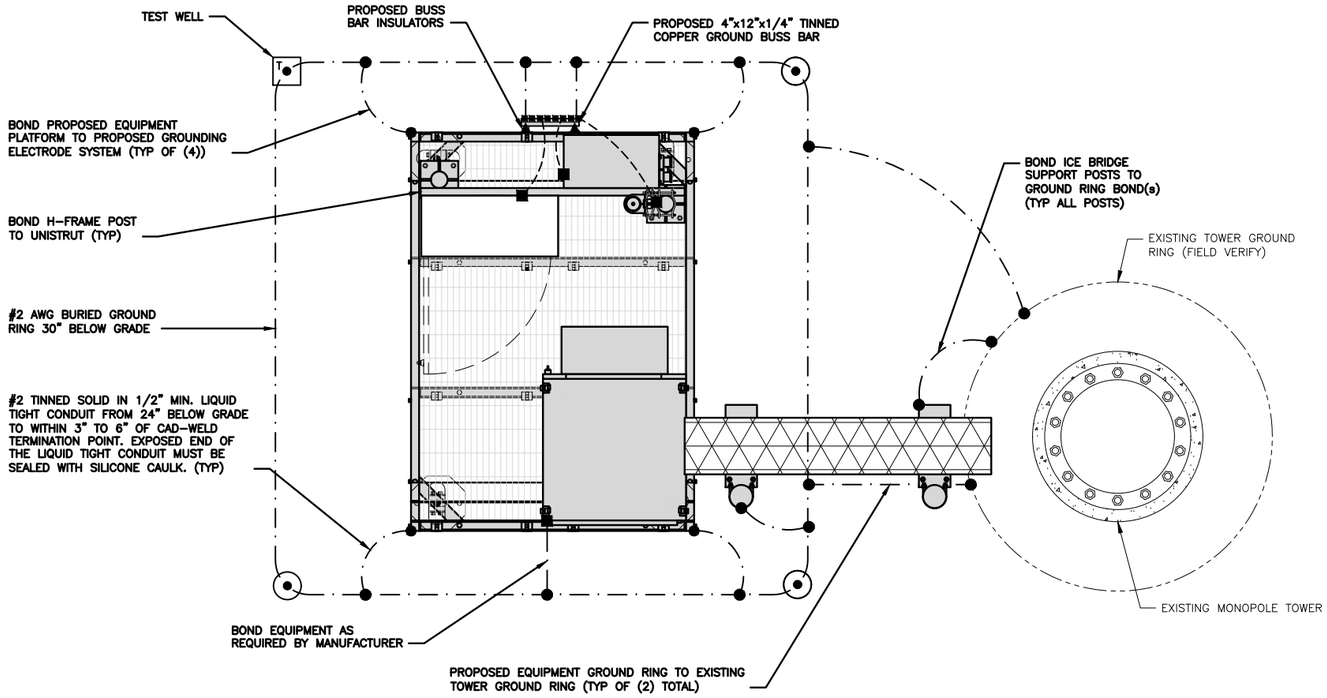
A&E PROJECT NUMBER
336.4160.AI0

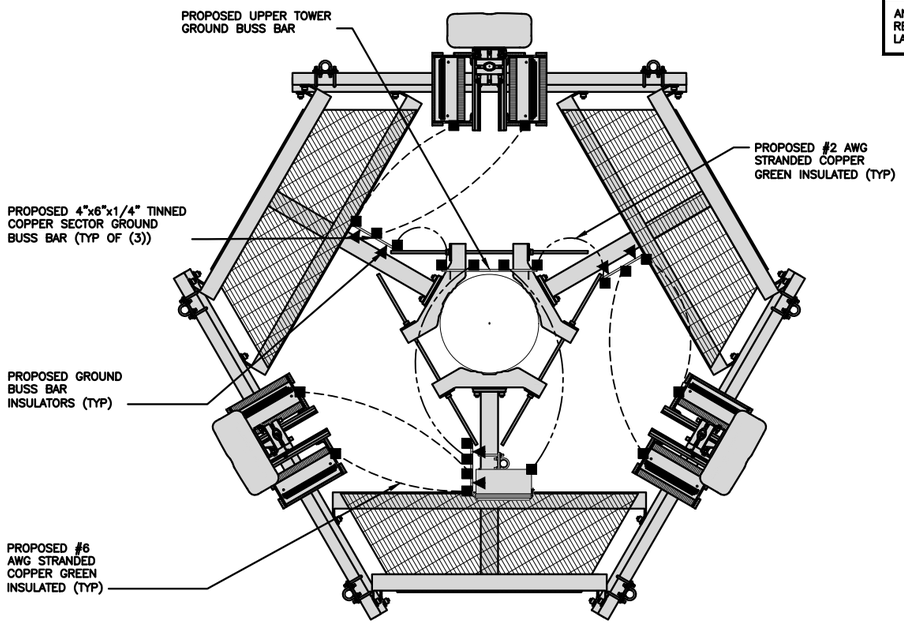
DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
ELECTRICAL ONE-LINE & PANEL SCHEDULE

SHEET NUMBER
E-3



TYPICAL EQUIPMENT GROUNDING PLAN | NO SCALE | 1



TYPICAL ANTENNA GROUNDING PLAN | NO SCALE | 2

NOTES

ANTENNAS AND OVP SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THIS LAYOUT IS FOR REFERENCE PURPOSES ONLY

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- GROUND BUS BAR
- GROUND ROD
- TEST GROUND ROD WITH INSPECTION SLEEVE
- #6 AWG STRANDED & INSULATED
- #2 AWG SOLID COPPER TINNED
- #2 AWG STRANDED & INSULATED
- BUSS BAR INSULATOR

GROUNDING LEGEND

1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

(A) EXTERIOR GROUND RING: #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.

(B) TOWER GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.

(C) INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.

(D) BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.

(E) GROUND ROD: UL LISTED COPPER CLAD STEEL. MINIMUM 1/2" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.

(F) CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.

(G) HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.

(H) EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.

(I) TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.

(J) FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.

(K) INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.

(L) FENCE AND GATE GROUNDING: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BONDED TO THE EXTERIOR GROUND RING SHALL BE BONDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.

(M) EXTERIOR UNIT BONDS: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE EXTERIOR GROUND RING. USING #2 TINNED SOLID COPPER WIRE

(N) ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.

(O) DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR

(P) TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR.

REFER TO DISH Wireless L.L.C. GROUNDING NOTES.

GROUNDING KEY NOTES | NO SCALE | 3

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N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK · STEPHEN A BRAY · LICENSED PROFESSIONAL ENGINEER · 086064

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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A&E PROJECT NUMBER
336.4160.A10

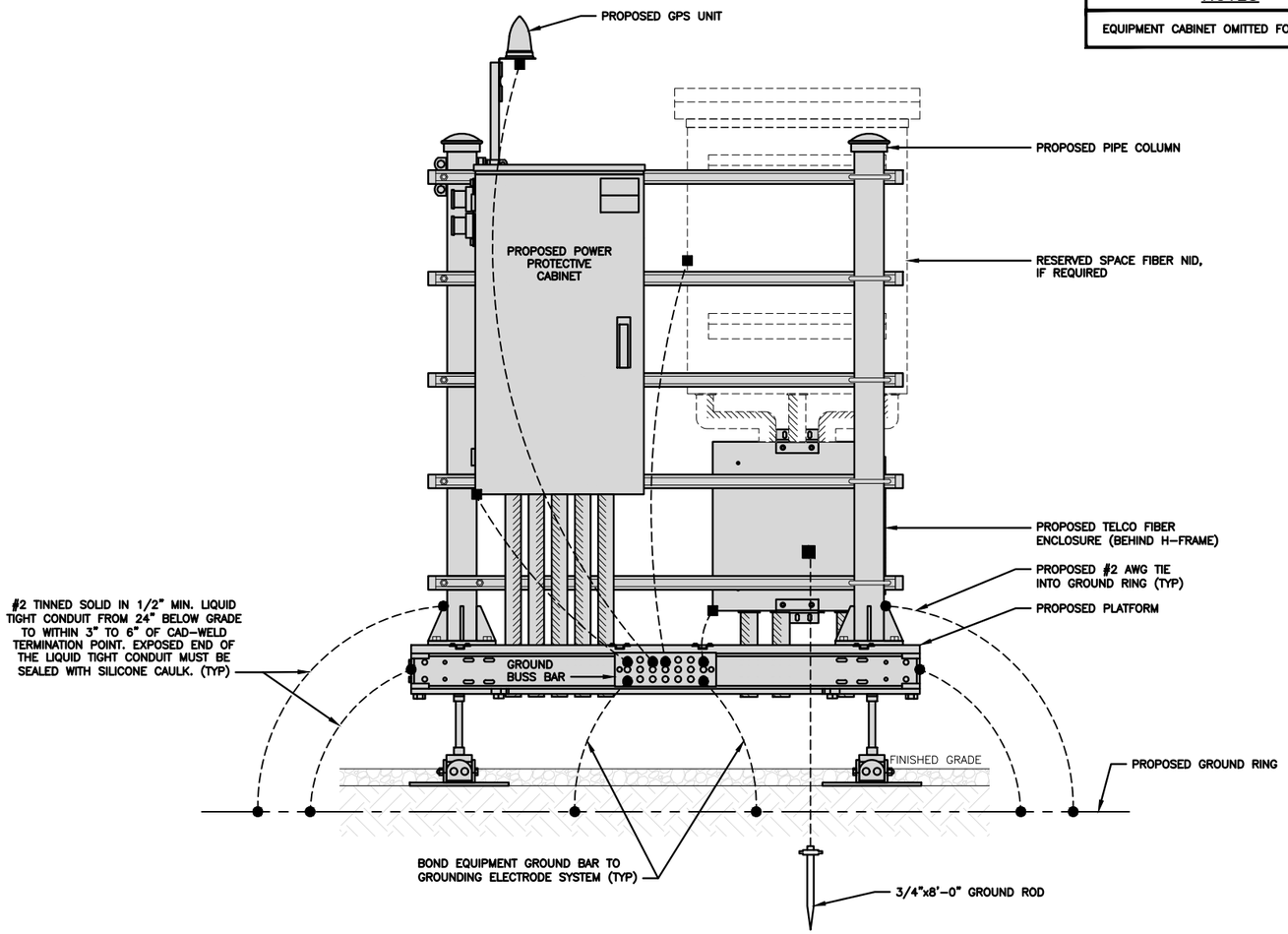
DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
GROUNDING PLANS AND NOTES

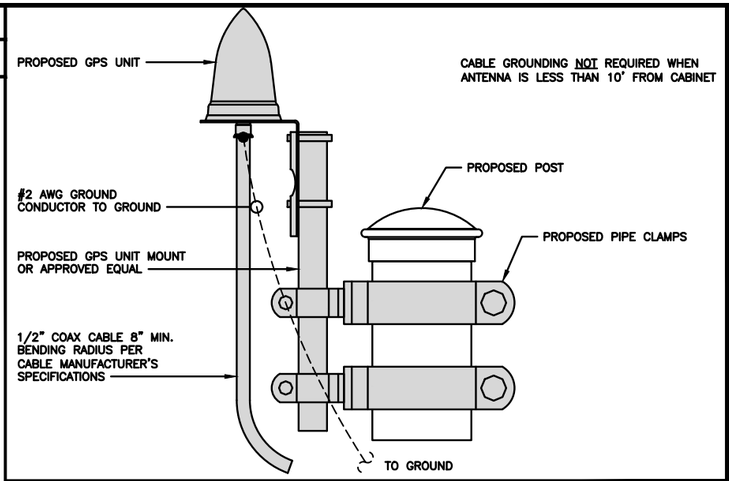
SHEET NUMBER
G-1

NOTES

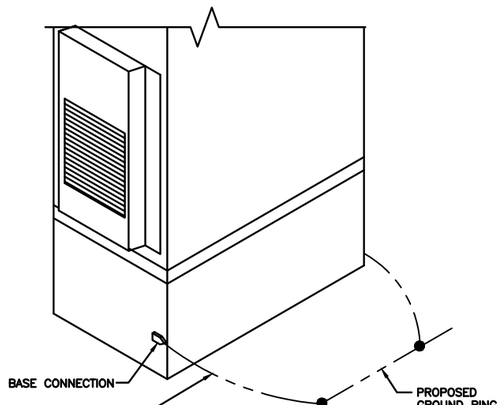
EQUIPMENT CABINET OMITTED FOR CLARITY



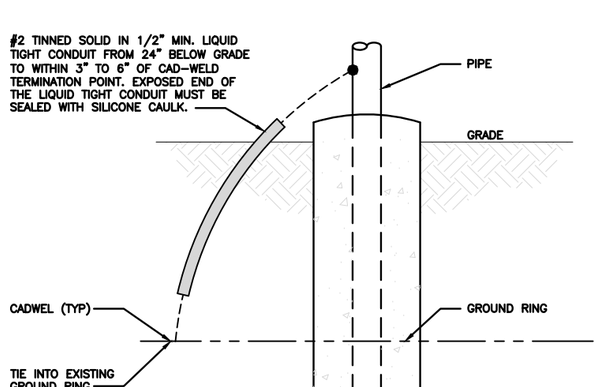
H-FRAME GROUNDING DETAIL | NO SCALE | 1



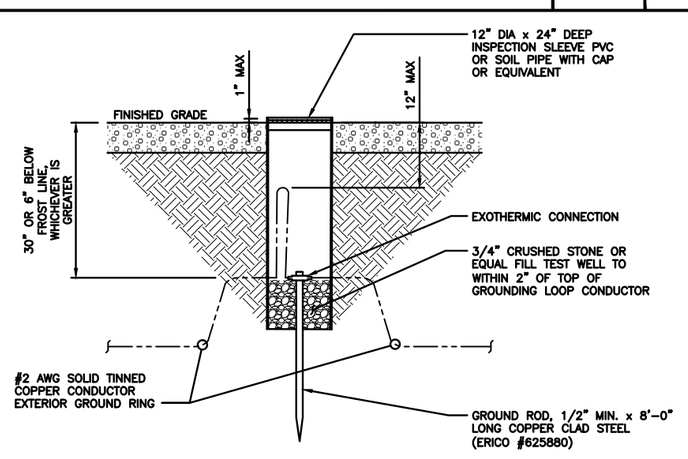
TYPICAL GPS UNIT GROUNDING | NO SCALE | 2



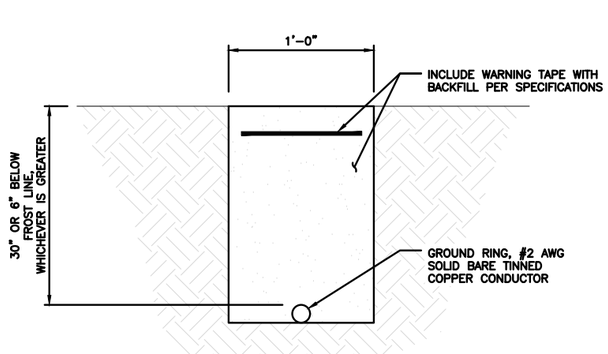
OUTDOOR CABINET GROUNDING | NO SCALE | 3



TRANSITIONING GROUND DETAIL | NO SCALE | 4



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE | NO SCALE | 5



TYPICAL GROUND RING TRENCH | NO SCALE | 6

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

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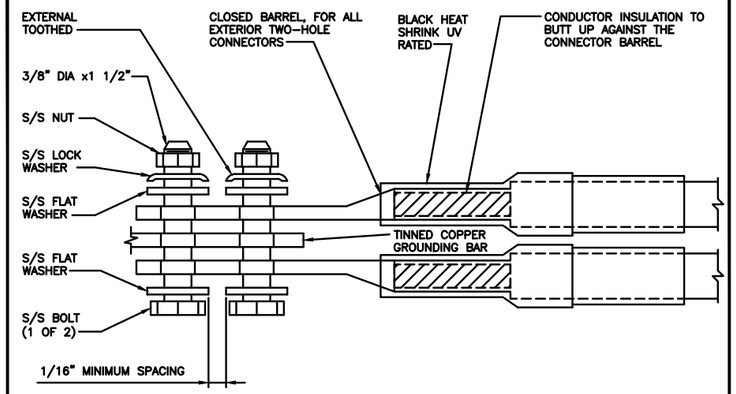
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
GROUNDING DETAILS

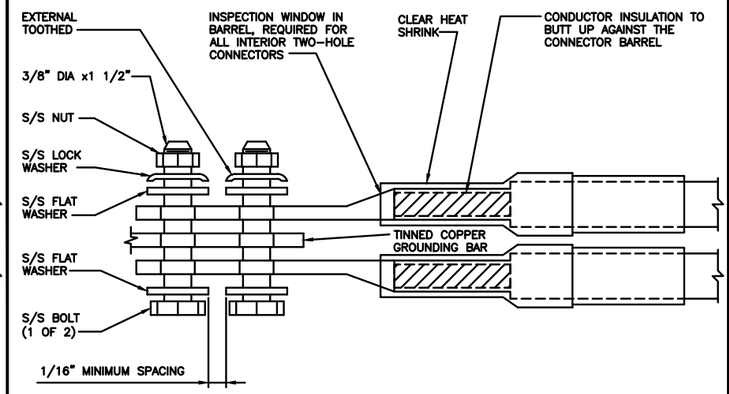
SHEET NUMBER
G-2

1. EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR, ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

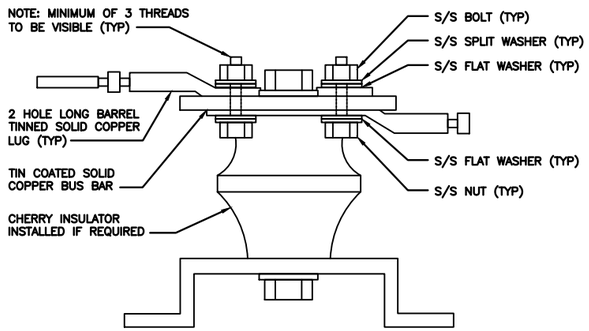
TYPICAL GROUNDING NOTES | NO SCALE | 1



TYPICAL EXTERIOR TWO HOLE LUG | NO SCALE | 2



TYPICAL INTERIOR TWO HOLE LUG | NO SCALE | 3



LUG DETAIL | NO SCALE | 4

NOT USED | NO SCALE | 5

NOT USED | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

KMB DESIGN GROUP
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1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A BRAY
086064
LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

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A&E PROJECT NUMBER
336.4160.A10

DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
GROUNDING DETAILS

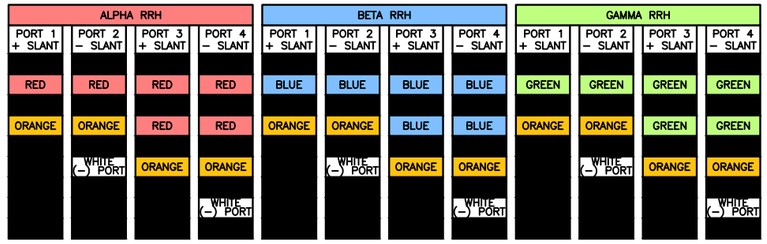
SHEET NUMBER
G-3

HYBRID/DISCREET CABLES

3/4" TAPE WIDTHS WITH 3/4" SPACING

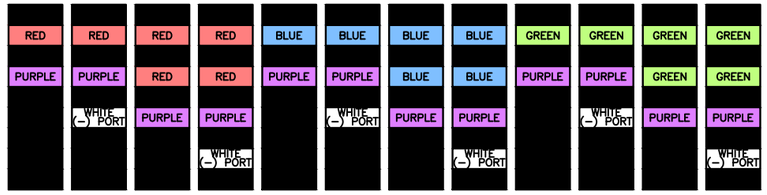
LOW-BAND RRH
(600 MHz N71 BASEBAND) +
(850 MHz N26 BAND) +
(700 MHz N29 BAND) – OPTIONAL PER MARKET

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BAND)



MID-BAND RRH
(AWS BANDS N66+N70)

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)



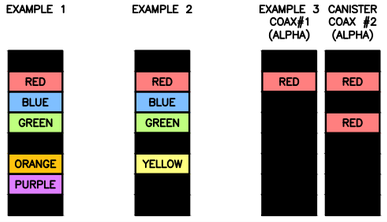
HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS.

EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS.

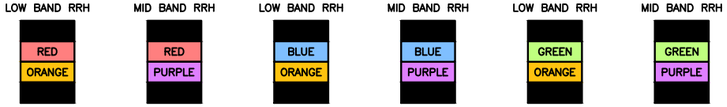
EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS.

EXAMPLE 3 – MAIN COAX WITH GROUND MOUNTED RRHs.



FIBER JUMPERS TO RRHs

LOW-BAND HHR FIBER CABLES HAVE SECTOR STRIPE ONLY.



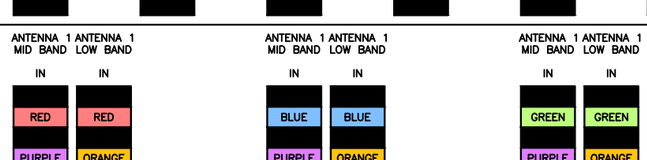
POWER CABLES TO RRHs

LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY

RET MOTORS AT ANTENNAS

RET CONTROL IS HANDLED BY THE MID-BAND RRH WHEN ONE SET OF RET PORTS EXIST ON ANTENNA.

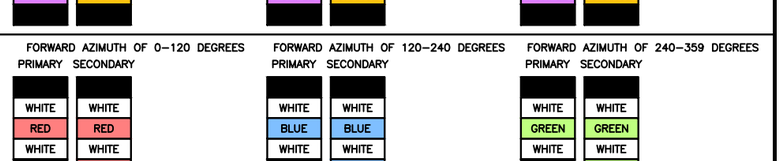
SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.



MICROWAVE RADIO LINKS

LINKS WILL HAVE A 1.5-2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE.
ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO.

MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID's.



LOW BANDS (N71+N26) OPTIONAL – (N29): ORANGE

AWS (N66+N70+H-BLOCK): PURPLE

CBRS TECH (3 GHz): YELLOW

NEGATIVE SLANT PORT ON ANT/RRH: WHITE

ALPHA SECTOR: RED

BETA SECTOR: BLUE

GAMMA SECTOR: GREEN

NOT USED

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

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WALL, NJ 07719
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N.Y. CERTIFICATE OF AUTHORIZATION: 081784

Stephen A. Bray
PROFESSIONAL ENGINEER
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A&E PROJECT NUMBER
336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION
NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
RF
CABLE COLOR CODES

SHEET NUMBER
RF-1

EXOTHERMIC CONNECTION

MECHANICAL CONNECTION

BUSS BAR INSULATOR

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

EXOTHERMIC WITH INSPECTION SLEEVE

GROUNDING BAR

GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE

SINGLE POLE SWITCH

DUPLEX RECEPTACLE

DUPLEX GFCI RECEPTACLE

FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48–T8

SMOKE DETECTION (DC)

EMERGENCY LIGHTING (DC)

SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW LED–1–25A400/51K–SR4–120–PE–DDBTXD

CHAIN LINK FENCE

WOOD/WROUGHT IRON FENCE

WALL STRUCTURE

LEASE AREA

PROPERTY LINE (PL)

SETBACKS

ICE BRIDGE

CABLE TRAY

WATER LINE

UNDERGROUND POWER

UNDERGROUND TELCO

OVERHEAD POWER

OVERHEAD TELCO

UNDERGROUND TELCO/POWER

ABOVE GROUND POWER

ABOVE GROUND TELCO

ABOVE GROUND TELCO/POWER

WORKPOINT

SECTION REFERENCE

DETAIL REFERENCE

LEGEND

AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGL	ABOVE GROUND LEVEL
AIC	AMPERAGE INTERRUPTION CAPACITY
ALUM	ALUMINUM
ALT	ALTERNATE
ANT	ANTENNA
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BTC	BARE TINNED COPPER CONDUCTOR
BOF	BOTTOM OF FOOTING
CAB	CABINET
CANT	CANTILEVERED
CHG	CHARGING
CLG	CEILING
CLR	CLEAR
COL	COLUMN
COMM	COMMON
CONC	CONCRETE
CONSTR	CONSTRUCTION
DBL	DOUBLE
DC	DIRECT CURRENT
DEPT	DEPARTMENT
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
DWL	DOWEL
EA	EACH
EC	ELECTRICAL CONDUCTOR
EL.	ELEVATION
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ENG	ENGINEER
EQ	EQUAL
EXP	EXPANSION
EXT	EXTERIOR
EW	EACH WAY
FAB	FABRICATION
FF	FINISH FLOOR
FG	FINISH GRADE
FIF	FACILITY INTERFACE FRAME
FIN	FINISH(ED)
FLR	FLOOR
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FS	FINISH SURFACE
FT	FOOT
FTG	FOOTING
GA	GAUGE
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GLB	GLUE LAMINATED BEAM
GLV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
GSM	GLOBAL SYSTEM FOR MOBILE
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HGR	HANGER
HVAC	HEAT/VENTILATION/AIR CONDITIONING
HT	HEIGHT
IGR	INTERIOR GROUND RING
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
LF	LINEAR FEET
LTE	LONG TERM EVOLUTION
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NEC	NATIONAL ELECTRIC CODE
NM	NEWTON METERS
NO.	NUMBER
#	NUMBER
NTS	NOT TO SCALE
OC	ON–CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OPNG	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PCU	PRIMARY CONTROL UNIT
PRC	PRIMARY RADIO CABINET
PP	POLARIZING PRESERVING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PWR	POWER CABINET
QTY	QUANTITY
RAD	RADIUS
RECT	RECTIFIER
REF	REFERENCE
REINF	REINFORCEMENT
REQ'D	REQUIRED
RET	REMOTE ELECTRIC TILT
RF	RADIO FREQUENCY
RMC	RIGID METALLIC CONDUIT
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
RWY	RACEWAY
SCH	SCHEDULE
SHT	SHEET
SIAD	SMART INTEGRATED ACCESS DEVICE
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TEMP	TEMPORARY
THK	THICKNESS
TMA	TOWER MOUNTED AMPLIFIER
TN	TOE NAIL
TOA	TOP OF ANTENNA
TOC	TOP OF CURB
TOF	TOP OF FOUNDATION
TOP	TOP OF PLATE (PARAPET)
TOS	TOP OF STEEL
TOW	TOP OF WALL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
UPS	UNITERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
VIF	VERIFIED IN FIELD
W	WIDE
W/	WITH
WD	WOOD
WP	WEATHERPROOF
WT	WEIGHT

ABBREVIATIONS

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

dish wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

KMB DESIGN GROUP
kmbdg.com
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK · STEPHEN A BRAY · LICENSED PROFESSIONAL ENGINEER · 086064

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
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A&E PROJECT NUMBER

336.4160.AI0

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

LEGEND AND ABBREVIATIONS

SHEET NUMBER

GN-1

SIGN TYPES		
TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	**"INFORMATIONAL SIGN"** TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER AND POTENTIAL RF EXPOSURE.
NOTICE	BLUE	**"NOTICE BEYOND THIS POINT"** RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	**"CAUTION BEYOND THIS POINT"** RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	**"WARNING BEYOND THIS POINT"** RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH Wireless L.L.C.
- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH Wireless L.L.C EQUIPMENT.
  A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C EQUIPMENT CABINET.
  B) IF THE INFORMATION SIGH IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C H-FRAME WITH A SECURE ATTACH METHOD.
- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH Wireless L.L.C. CONSTRUCTION MANAGER FOR FURTHER INSTRUCTION ON HOW TO PROCEED.

NOTES:

1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.L.C.)
2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH Wireless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

INFORMATION

This is an access point to an area with transmitting antennas.

Obey all signs and barriers beyond this point.
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874

Site ID: _____

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

NOTICE

Transmitting Antenna(s)

Radio frequency fields beyond this point MAY *EXCEED* the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____

dish

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

CAUTION

Transmitting Antenna(s)

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dish

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dish

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RF SIGNAGE

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

dish wireless.

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336.4160.A10

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE
RF SIGNAGE

SHEET NUMBER
GN-2

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.

2. "LOOK UP" – DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).

5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.

12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER:TOWER OWNER

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.

12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER

13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

dish wireless.

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STATE OF NEW YORK
STEPHEN A BRAY
086064
LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
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CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER

336.4160.A10

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.

3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.

4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi

#5 BARS AND LARGER 60 ksi

6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER 2"
- #5 BARS AND SMALLER 1-1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLAB AND WALLS 3/4"
- BEAMS AND COLUMNS 1-1/2"

7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

8. TIE WRAPS ARE NOT ALLOWED.

9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.

12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).

14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.

18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.

21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).

22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.

24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.

25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".

30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

dish wireless.

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N.Y. CERTIFICATE OF AUTHORIZATION: 081784

STATE OF NEW YORK
STEPHEN A BRAY
086064
LICENSED PROFESSIONAL ENGINEER

Stephen A. Bray
PROFESSIONAL ENGINEER
EXPIRATION DATE: 06/30/25
NY LICENSE: 086064 9/20/23

DRAWN BY:	CHECKED BY:	APPROVED BY:
AAB	---	---

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A&E PROJECT NUMBER

336.4160.A10

DISH Wireless L.L.C.
PROJECT INFORMATION

NJJER01241A
1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-4

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

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1 MOUNTAIN AVE
MOUNT KISCO, NY 10549

SHEET TITLE

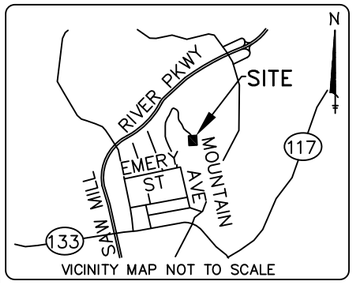
GENERAL NOTES

SHEET NUMBER

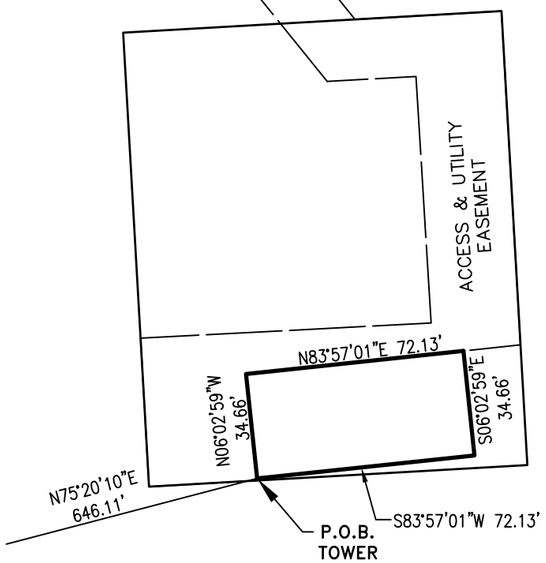
GN-5

Survey

BOUNDARY SURVEY



VICINITY MAP NOT TO SCALE



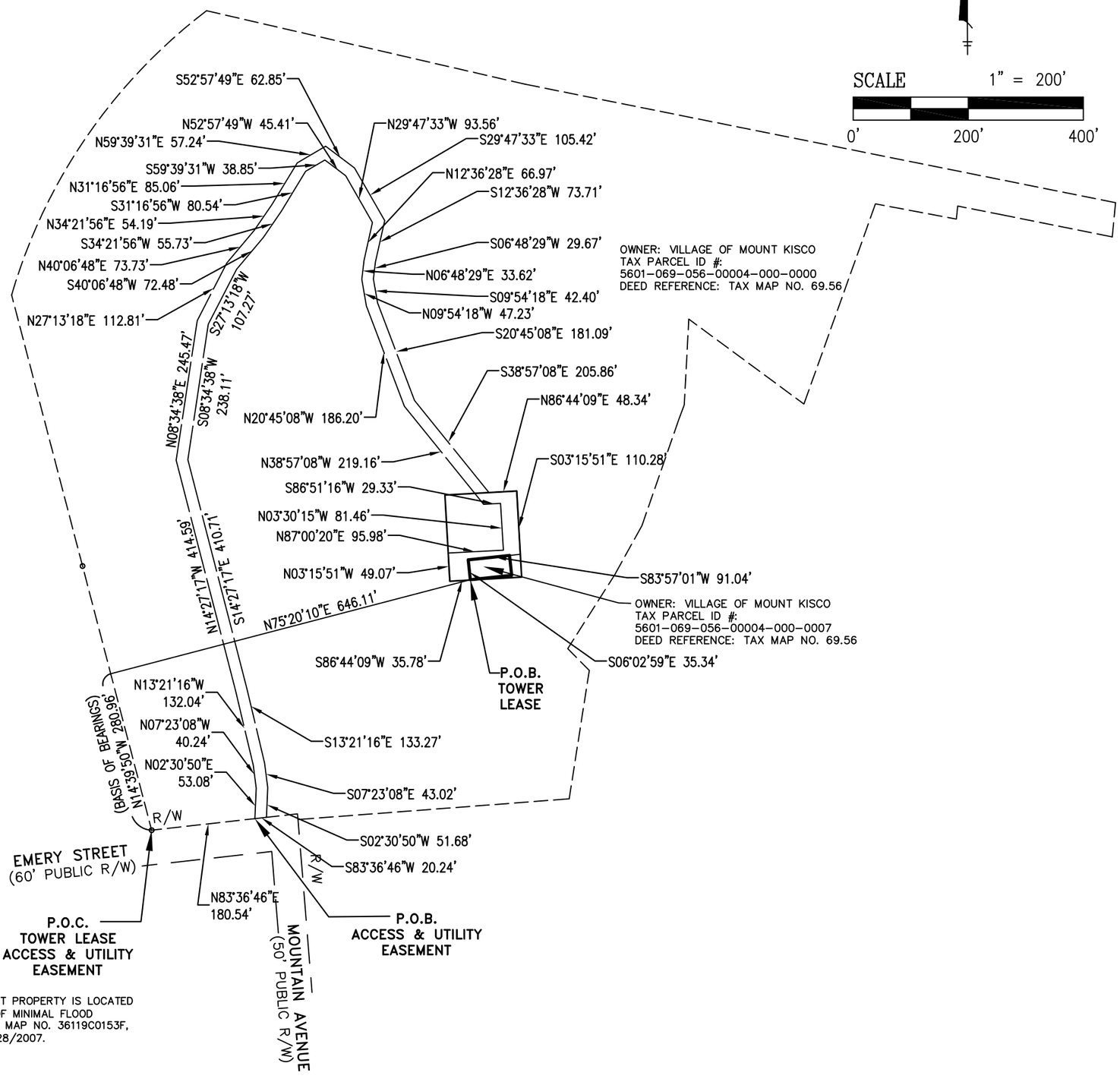
SCALE 1" = 50'

0' 50' 100'

LEGEND

FOUND 5/8" IRON	○
FOUND PK NAIL	△
SET 5/8" IRON	●
POINT OF BEGINNING	P.O.B.
POINT OF COMMENCEMENT	P.O.C.
RIGHT OF WAY	R/W
POWER POLE	Ⓟ
ELECTRIC TRANSFORMER BOX	ⓉE
ELECTRIC METER	Ⓔ
TELEPHONE PEDESTAL	Ⓣ
CABLE TV PEDESTAL	CATV
OVERHEAD ELECTRIC	—E—
FENCE	—x—x—

AREA TABLE		SQUARE FEET	ACRE
Ⓐ	PARENT PARCEL	18,857±	0.43±
Ⓑ	TOWER COMPOUND	2,204.8	0.05
Ⓒ	TOWER LEASE	2,500	0.06
Ⓓ	ACCESS & UTILITY EASEMENT	45,094	1.03



ZONING: RS-12

FLOOD NOTE: SUBJECT PROPERTY IS LOCATED IN ZONE "X", AREA OF MINIMAL FLOOD HAZARD PER F.E.M.A. MAP NO. 36119C0153F, EFFECTIVE DATE 09/28/2007.

FOR: CROWN CASTLE

SITE: MOUNT KISCO
BUN: 843210
ADDRESS: EMERY STREET
BEDFORD, NY 10506
WESTCHESTER COUNTY

CROWN CASTLE

NATIONAL SURVEY SERVICES COORDINATION BY:

GEOLINE SURVEYING, INC.
13430 NW 104th Terrace, Suite A, Alachua, FL 32615
Office:(386) 418-0500 Fax:(386) 462-9986
WWW.GEOLINEINC.COM

SURVEY WORK PERFORMED BY:

Surveying & Mapping Performed By:
Global Land Solutions
Solutions that work for you.
Corporate Office:
5065 12 Mile Road NE Rockford,
Michigan 49341
(989) 352-5617
www.GlobalLandSolutions.com
Serving The Great Lakes Region

DRAWN BY: TBK | CHECKED BY: JMS | JOB #: 18104S

SURVEYOR'S NOTES

1. BASIS OF BEARING, ASSUMED N 14°39'50" W ON WESTERLY LINE OF VILLAGE OF MOUNT KISCO PROPERTY.

2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.

3. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

4. ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA.

5. ALL SYMBOLS SHOWN, NOT TO SCALE.

SURVEYOR'S CERTIFICATION

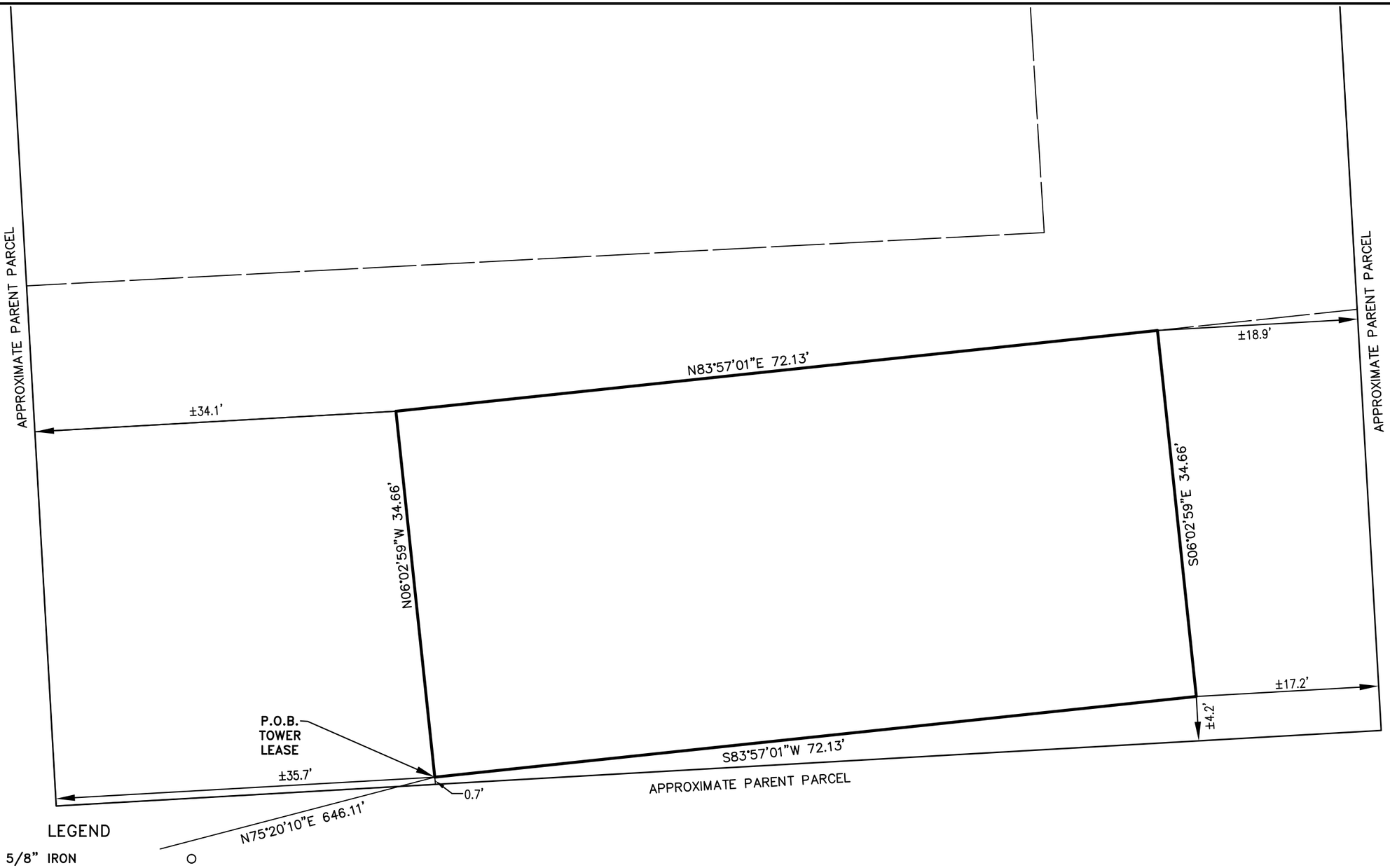
I HEREBY CERTIFY TO CROWN CASTLE AND STEWART TITLE GUARANTY COMPANY.

GLOBAL LAND SOLUTIONS

Jay M. Schwandt, PS, JD
LAND SURVEYOR – NEW YORK #050981

Date: MARCH 27, 2018
Revision: #1

STATE OF NEW YORK
JAY M. SCHWANDT
050981
LICENSED LAND SURVEYOR



LEGEND

FOUND 5/8" IRON	○
FOUND PK NAIL	△
SET 5/8" IRON	●
POINT OF BEGINNING	P.O.B.
POINT OF COMMENCEMENT	P.O.C.
RIGHT OF WAY	R/W
POWER POLE	Ⓟ
ELECTRIC TRANSFORMER BOX	E
ELECTRIC METER	E
TELEPHONE PEDESTAL	T
CABLE TV PEDESTAL	CATV
OVERHEAD ELECTRIC	—E—
FENCE	—x—x—

N

SCALE 1" = 10'

0' 10' 20'

BOUNDARY SURVEY

FOR: CROWN CASTLE

SITE: MOUNT KISCO
BUN: 843210
ADDRESS: EMERY STREET
BEDFORD, NY 10506
WESTCHESTER COUNTY

CROWN CASTLE

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DRAWN BY: TBK	CHECKED BY: JMS	JOB #: 18104S

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GLOBAL LAND SOLUTIONS

Jay M. Schwandt, PS, JD
LAND SURVEYOR – NEW YORK #050981
Date: MARCH 27, 2018
Revision: #1

STATE OF NEW YORK
JAY M. SCHWANDT
050981
LICENSED LAND SURVEYOR

TOWER LEASE DESCRIPTION: (CREATED BY THIS OFFICE)

ALL THAT PART OF A PARCEL OF LAND AS SHOWN ON TAX MAP NO. 69.56, VILLAGE OF MOUNT KISCO, WITH A TAX PARCEL ID NO. OF 5601-069-056-00004-000-0007, WESTCHESTER COUNTY, NEW YORK, DESCRIBED AS: COMMENCING AT A FOUND IRON AT THE SOUTHWEST CORNER OF A PARCEL OF LAND NOW OR FORMERLY THE VILLAGE OF MOUNT KISCO, TAX PARCEL ID NO. 5601-069-056-00004-000-0000; THENCE N 14°39'50" W ALONG THE WEST LINE OF SAID PARCEL, 280.96 FEET; THENCE N 75°20'10" E, 646.11 FEET TO THE POINT OF BEGINNING; THENCE N 06°02'59" W, 34.66 FEET; THENCE N 83°57'01" E, 72.13 FEET; THENCE S 06°02'59" E, 34.66 FEET; THENCE S 83°57'01" W, 72.13 FEET TO THE POINT OF BEGINNING. CONTAINING 2,500 SQUARE FEET OR 0.06 ACRES, MORE OR LESS.

ACCESS & UTILITY EASEMENT DESCRIPTION: (CREATED BY THIS OFFICE)

AN EASEMENT FOR INGRESS, EGRESS AND THE INSTALLATION AND MAINTENANCE OF UTILITIES OVER AND ACROSS ALL THAT PART OF A PARCEL OF LAND AS SHOWN ON TAX MAP NO. 69.56 AND MAP NO. 69.64, VILLAGE OF MOUNT KISCO, WITH A TAX PARCEL ID NO. OF 5601-069-056-00004-000-0007 AND 5601-069-056-00004-000-0000, WESTCHESTER COUNTY, NEW YORK, DESCRIBED AS: COMMENCING AT A FOUND IRON AT THE SOUTHWEST CORNER OF A PARCEL OF LAND NOW OR FORMERLY THE VILLAGE OF MOUNT KISCO, TAX PARCEL ID NO. 5601-069-056-00004-000-0000; THENCE N 83°36'46" E ALONG THE SOUTH LINE OF SAID PARCEL, 180.54 FEET TO THE POINT OF BEGINNING; THENCE N 02°30'50" E, 53.08 FEET; THENCE N 07°23'08" W, 40.24 FEET; THENCE N 13°21'16" W, 132.04 FEET; THENCE N 14°27'17" W, 414.59 FEET; THENCE N 08°34'38" E, 245.47 FEET; THENCE N 27°13'18" E, 112.81 FEET; THENCE N 40°06'48" E, 73.73 FEET; THENCE N 34°21'56" E, 54.19 FEET; THENCE N 31°16'56" E, 85.06 FEET; THENCE N 59°39'31" E, 57.24 FEET; THENCE S 52°57'49" E, 62.85 FEET; THENCE S 29°47'33" E, 105.42 FEET; THENCE S 12°36'28" W, 73.71 FEET; THENCE S 06°48'29" W, 29.67 FEET; THENCE S 09°54'18" E, 42.40 FEET; THENCE S 20°45'08" E, 181.09 FEET; THENCE S 38°57'08" E, 205.86 FEET; THENCE N 86°44'09" E, 48.34 FEET; THENCE S 03°15'51" E, 110.28 FEET; THENCE S 83°57'01" W, 91.04 FEET; THENCE S 06°02'59" E, 35.34 FEET; THENCE S 86°44'09" W, 35.78 FEET; THENCE N 03°15'51" W, 49.07 FEET; THENCE N 87°00'20" E, 95.98 FEET; THENCE N 03°30'15" W, 81.46 FEET; THENCE S 86°51'16" W, 29.33 FEET; THENCE N 38°57'08" W, 219.16 FEET; THENCE N 20°45'08" W, 186.20 FEET; THENCE N 09°54'18" W, 47.23 FEET; THENCE N 06°48'29" E, 33.62 FEET; THENCE N 12°36'28" E, 66.97 FEET; THENCE N 29°47'33" W, 93.56 FEET; THENCE N 52°57'49" W, 45.41 FEET; THENCE S 59°39'31" W, 38.85 FEET; THENCE S 31°16'56" W, 80.54 FEET; THENCE S 34°21'56" W, 55.73 FEET; THENCE S 40°06'48" W, 72.48 FEET; THENCE S 27°13'18" W, 107.27 FEET; THENCE S 08°34'38" W, 238.11 FEET; THENCE S 14°27'17" E, 410.71 FEET; THENCE S 13°21'16" E, 133.27 FEET; THENCE S 07°23'08" E, 43.02 FEET; THENCE S 02°30'50" W, 51.68 FEET TO THE NORTH RIGHT OF WAY LINE OF EMERY STREET (60' PUBLIC RIGHT OF WAY); THENCE S 83°36'46" W ALONG SAID RIGHT OF WAY, 20.24 FEET TO THE POINT OF BEGINNING. CONTAINING 45,094 SQUARE FEET OR 1.03 ACRES, MORE OR LESS.

BOUNDARY SURVEY

FOR: CROWN CASTLE

SITE: MOUNT KISCO
BUN: 843210
ADDRESS: EMERY STREET
BEDFORD, NY 10506
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CROWN CASTLE

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GLOBAL LAND SOLUTIONS

Jay M. Schwandt, PS, JD
LAND SURVEYOR – NEW YORK #050981
Date: MARCH 27, 2018
Revision: #1

STATE OF NEW YORK
JAY M. SCHWANDT
050981
LICENSED LAND SURVEYOR

November 2, 2023
HDR File No. 10384417

Village of Mount Kisco Planning Board and
Board of Trustees
104 Main Street
Mount Kisco, NY 10549

Re: Application for Co-Location DISH Wireless
Site Plan and Special Use Permit review
Mountain Avenue Monopole

Dear Chairperson and Members of the Planning Board and
Mayor Picinich and Honorable Members of the Village Board of Trustees,

This memorandum (Tech Memo) was prepared to summarize HDR's review of the above-referenced application on behalf of the applicant, DISH Wireless (DISH). The application is for a proposed co-location at an existing monopole cell site on Village-owned property located at 1 Mountain Avenue. The cell site is owned and operated by Crown Castle. The site is located within the Conservation Development (CD) zoning district and lies outside of the Village's Personal Wireless Service Facilities Overlay District (PWSF). As such, per the Village's Wireless Code (Chapter 110-27), DISH is requesting a Special Use Permit from the Village Board and Site Plan approval from the Planning Board. The application materials describe the proposed action, including the installation of three panel antennas at a centerline height of approximately 76 ft above ground level (agl) on the monopole and new equipment at grade within the existing designated compound area. The proposed antennas are located below the existing and operational MTA, T-Mobile, Verizon, and AT&T antenna systems that are currently situated on the 109 ft monopole. The proposed co-location qualifies as an FCC Eligible Facilities Request (EFR) as the DISH equipment proposed (location and scale of the antenna array and ground-based equipment) does not include substantial changes to the existing cell site per FCC criteria. No increase in the monopole height is proposed, no tower lighting is required, the monopole profile (width of arrays) is not proposed to increase, and the number of at-grade equipment cabinets proposed meets the FCC criteria.

This Tech Memo was prepared for the Planning Board (the proposed SEQRA lead agency for the project) for its review of the Site Plan application, and for the Village Board for its Special Use Permit review. No other approvals (e.g., wetlands or steep slopes) or variances have been identified to be required for the proposed co-location. Recommendations are included at the end of this memo that one or both Boards may consider as conditions of approvals. In addition to the DISH application filings, HDR looked back to prior Drawing, structural analysis, and RF emissions submittals from Crown and the existing wireless carriers since the replacement monopole was approved in 2019. This included Site Plan extension applications submitted by Crown to the Planning Board, the most recent in 2023. It is noted that Crown (tower owner) is in the process of developing a maintenance plan for the cell site and addressing a focused punch list of corrective

action items with the Building Department, per the recent Site Plan extension approval resolution. HDR visited the cell site in August 2023; photos from the visit are incorporated into this Tech Memo.

Overview of Project

The existing Mountain Avenue monopole site consists of a 109 ft tall monopole (top of MTA whip antennas are at approximately 126 ft agl) with an unmanned fenced equipment compound at the tower's base and equipment of other operational wireless carriers ("co-locators"). Based on the Drawings submitted by DISH and site reconnaissance, there are currently four antenna systems co-located on the monopole including: MTA whip antennas [top], T-Mobile [approx. 102 ft centerline height], Verizon [approx. 92 ft centerline height], and AT&T [approx. 83 ft centerline height].

The DISH proposed action involves the installation of new equipment on the tower, including an antenna platform (76 ft agl, below the existing co-locators), three (3) panel antennas, six (6) remote radiohead units (RRUs), and one (1) Over Voltage Protection (OVP) device. Within the existing compound at the tower's base, DISH is proposing a small steel platform (7 ft by 5 ft in plan view), an ice bridge, equipment cabinets, one (1) GPS unit and other related equipment (cables and conduit; meter; fiber box).

The below photographs depict the existing monopole and ground-based area (August 21, 2023 site visit).

Equipment compound area. Monopole shown behind the tan equipment shed. Village water tank at left.

This technical review consists of an analysis of the application materials as summarized below. The applicant is seeking Site Plan approval and a Special Use Permit from the Village. A Building Permit will also be required should these approvals be granted.

Summary of DISH Application Materials

Application materials reviewed for this Tech Memo include:

- ***PLANNING BOARD FILINGS***
  - June 30, 2023 cover letter prepared by Cuddy+Feder LLP describing the proposed co-location, initial revisions to the Plans that eliminated an increase in the monopole's height, and compliance with FCC EFR criteria;
  - Planning Board application form and checklist, dated May 31, 2023 (it is noted therein that the subject parcel is 0.43 acres in size, and the proposed limit of disturbance is minimal. No tree removal is proposed.);
  - Coverage Calculation Worksheet
  - SEQRA EAF (3 pp. short form with 1 p. EAF Mapper Summary Report), prepared by Cuddy+Feder LLP (dated July [sic] 30, 2023);
  - Structural Analysis (SA) Report, prepared by Crown Castle NYS P.E. (dated February 10, 2023), including certification that the monopole has sufficient capacity to accommodate the proposed DISH co-location;
  - RF Emission report, prepared by EBI Consulting (dated May 19, 2023). The report demonstrates compliance with the FCC's general population Maximum Permissible Exposure (MPE) limit;
  - Copy of DISH Wireless FCC licenses;
  - Excerpt of Title Report for the parcel of the Village-owned property which is proposed to accommodate the DISH equipment;
  - Drawing Set (19 sheets), prepared by KMB Design Group (a NYS P.E.) and dated 5-16-2023;
  - Site Boundary Survey Map (3 sheets), prepared by Global Land Solutions and dated March 27, 2018; and
  - August 7 and September 7, 2023 letters prepared by Cuddy+Feder LLP describing the FCC rulings (shot clock and EFR criteria) and acknowledging Crown's Site Plan extension/n conditions.

- ***PLANNING BOARD FILINGS – SUPPLEMENTAL***

  In response to feedback from the Village Building Department, a supplemental filing was made to the Planning Board:
  - October 3, 2023 cover letter prepared by Cuddy+Feder LLP describing minor edits to the Drawings (re-location of at grade fiber vault), and clarifying the Village Board meeting schedule;
  - RF Justification Report, prepared by DISH Wireless and dated September 22, 2023;
  - Copy of DISH Wireless FCC licenses; and

- Revised Drawing Set (19 sheets), prepared by KMB Design Group and dated 9-20-2023 (***this set is considered to represent the latest Site Plan drawings***).

- ***VILLAGE BOARD FILINGS (generally synonymous with the documents noted above)***
  - September 28, 2023 cover letter prepared by Cuddy+Feder LLP in support of DISH's Special Use Permit request and describing the proposed co-location, initial revisions to the Plans that eliminated an increase in the monopole's height, and compliance with FCC EFR criteria;
  - Copy of Planning Board application form and checklist; Coverage Calculation Worksheet;
  - SEQRA EAF (short form with EAF Mapper Summary Report);
  - Structural Analysis (SA) Report and certification, prepared by Crown Castle NYS P.E. (dated February 10, 2023);
  - RF Emission report, prepared by EBI Consulting (dated May 19, 2023). The report demonstrates compliance with the FCC's general population Maximum Permissible Exposure (MPE) limit;
  - Copy of DISH Wireless FCC licenses;
  - Excerpt of Title Report for the parcel of the Village-owned property which is proposed to accommodate the DISH equipment;
  - RF Justification Report, prepared by DISH Wireless and dated September 22, 2023;
  - Revised Drawing Set (19 sheets), prepared by KMB Design Group and dated 9-20-2023; and
  - Site Boundary Survey Map (3 sheets), prepared by Global Land Solutions and dated March 27, 2018.

Proposed DISH Facility

DISH is proposing a new wireless facility at the Mountain Avenue monopole site as follows:

Tower-Mounted Scope of Work:

- Install (1) proposed tower platform mount
- Install (3) proposed panel antennas (1 per sector)
- Install proposed jumpers
- Install (6) proposed RRHs (2 per sector)
- Install (1) proposed over voltage protection device (OVP)
- Install (1) proposed hybrid cable

Ground-Based Scope of Work :

- Install (1) proposed metal platform (5 ft x 7 ft in dimension) to support DISH equipment at grade
- Install (1) proposed ice bridge (for cabling linking DISH ground equipment and DISH antennas / RRUs)
- Install (1) proposed power protection cabinet (PPC)
- Install (1) proposed equipment cabinet
- Install (1) proposed power conduit

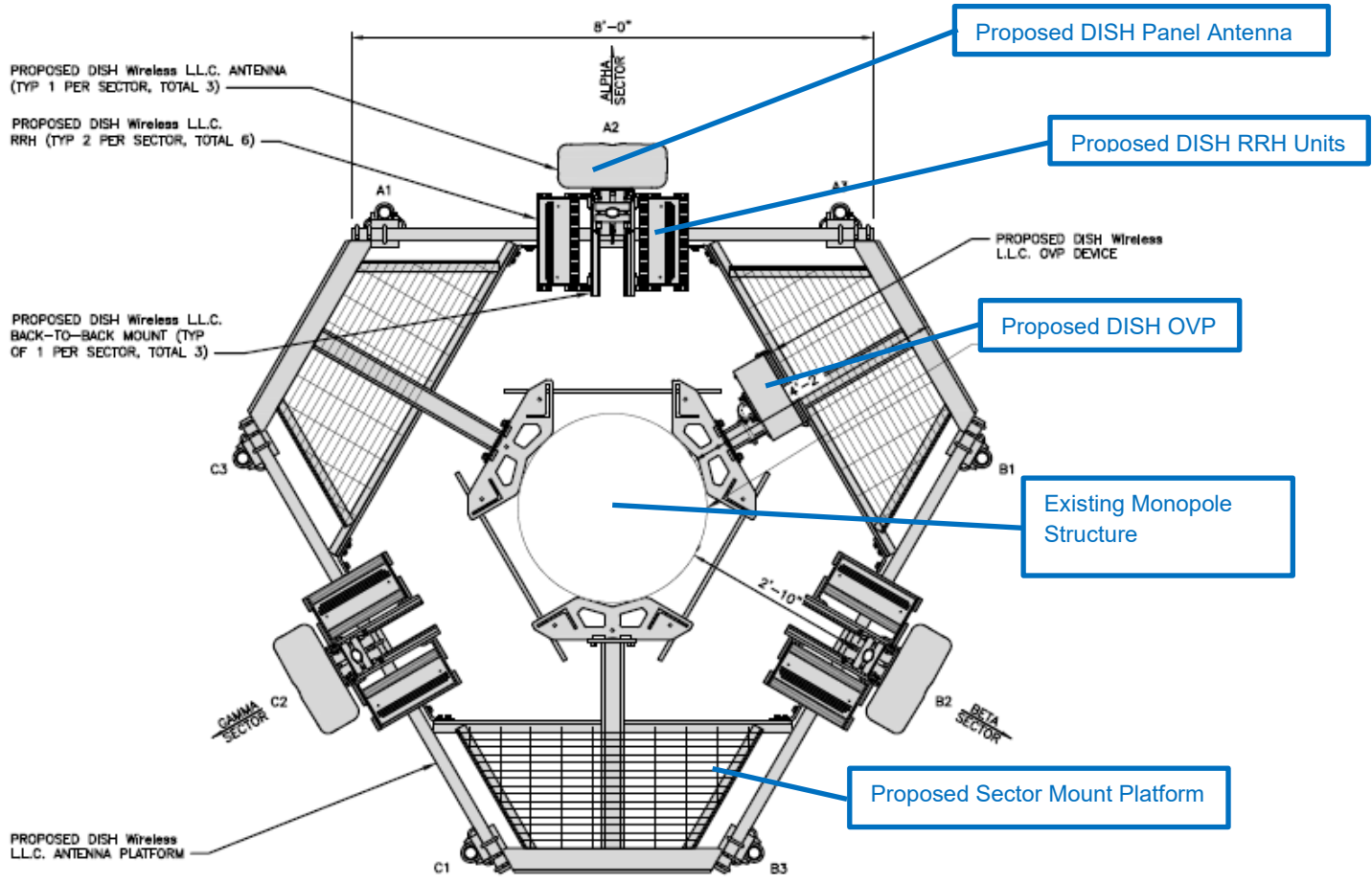
- Install (1) proposed telco conduit
- Install (1) proposed telco-fiber box
- Install (1) proposed GPS unit
- FCC Caution signage (standard) near the base of the monopole

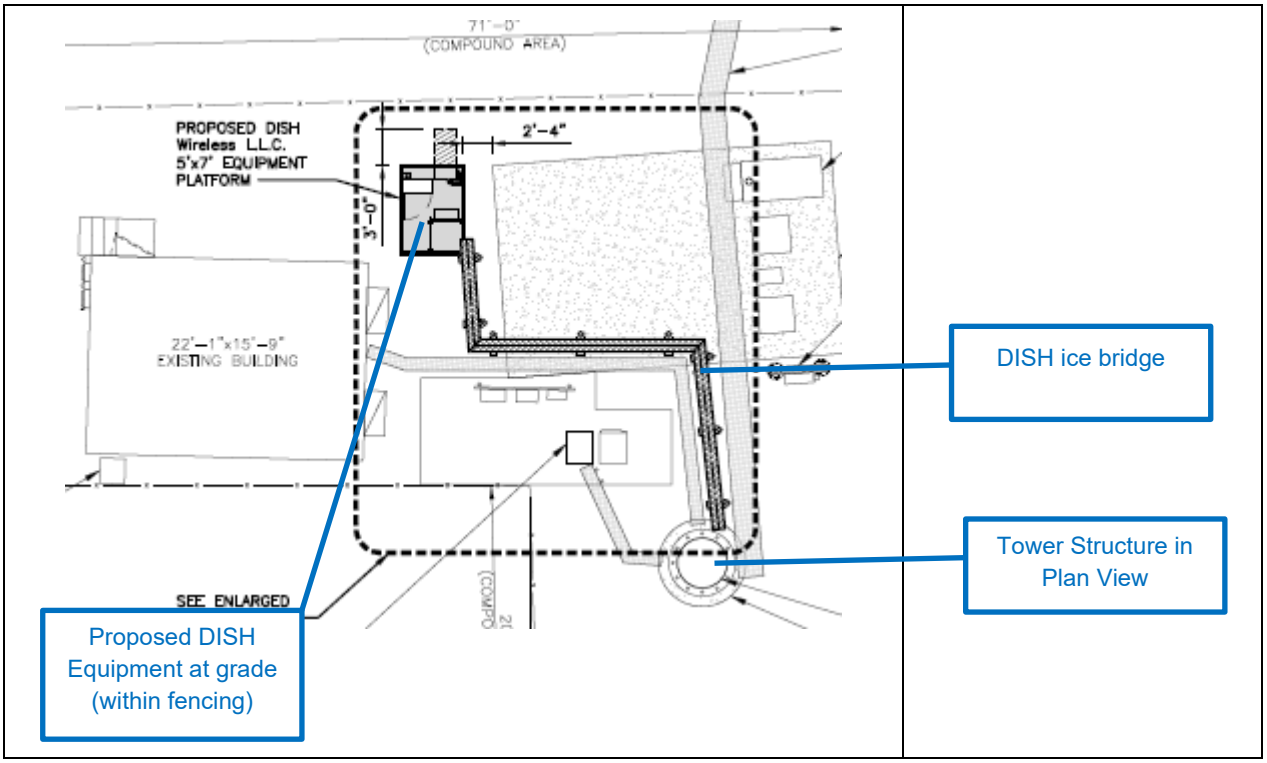
No back-up generator is being proposed by DISH. The antennas will operate in the 600, 2000, and 2100 MHz licensed frequency ranges. High frequency (mmWave) 5G services are not being proposed.

HDR cross-checked the proposed equipment models between the Construction Drawings, Structural Analysis Report, and RF Emissions Report. Information on proposed equipment appears to correlate between these documents.

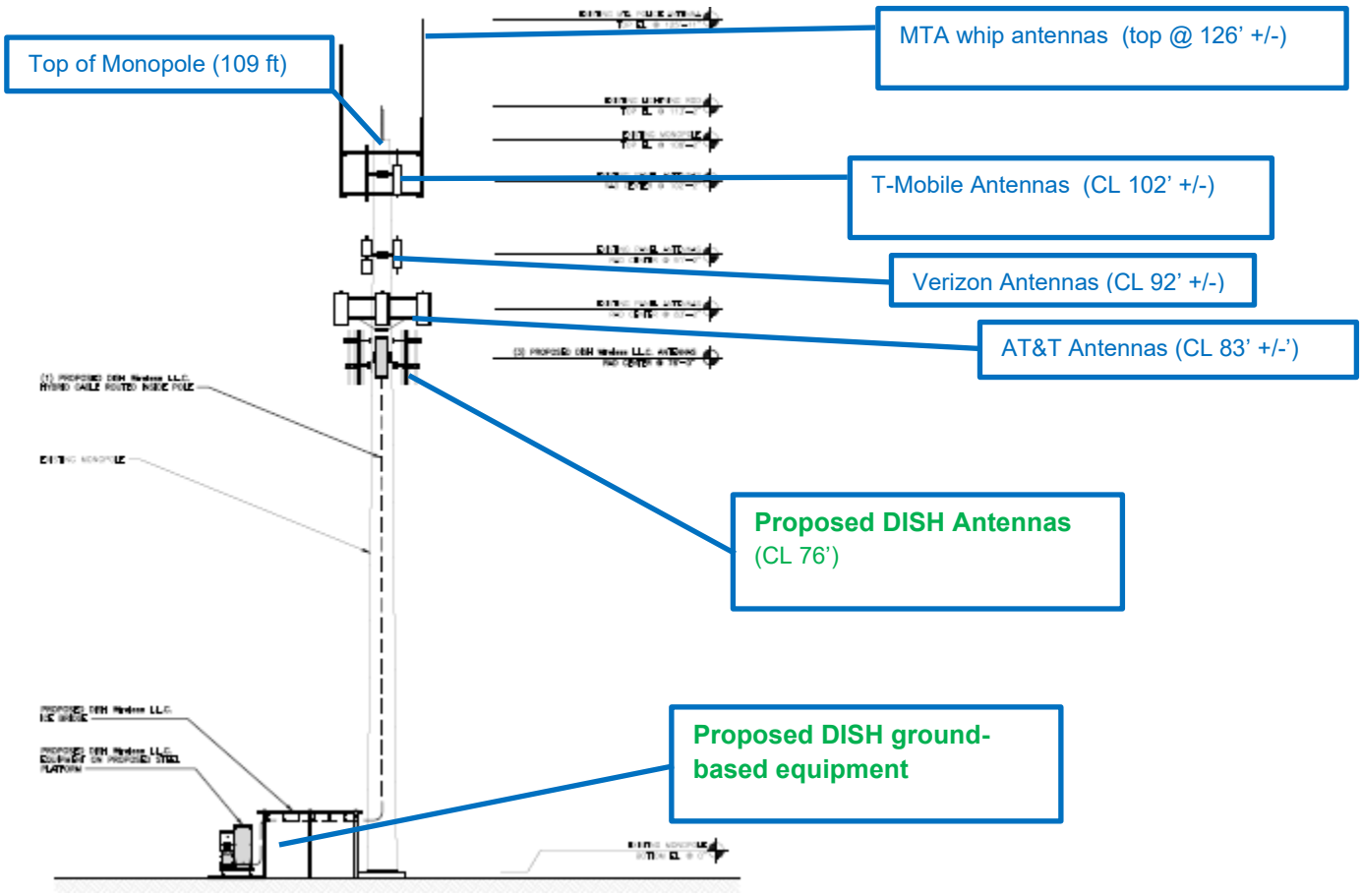
The below images depict the tower configuration and DISH's proposed co-location.

Antenna Layout, Sheet A-2 from Drawing Set dated 9-20-2023





Proposed Location of DISH ground equipment, Sheets A-1 from Drawing Set dated 9-20-2023



Elevation View, Sheet A-2 from Drawing Set dated 9-20-2023.

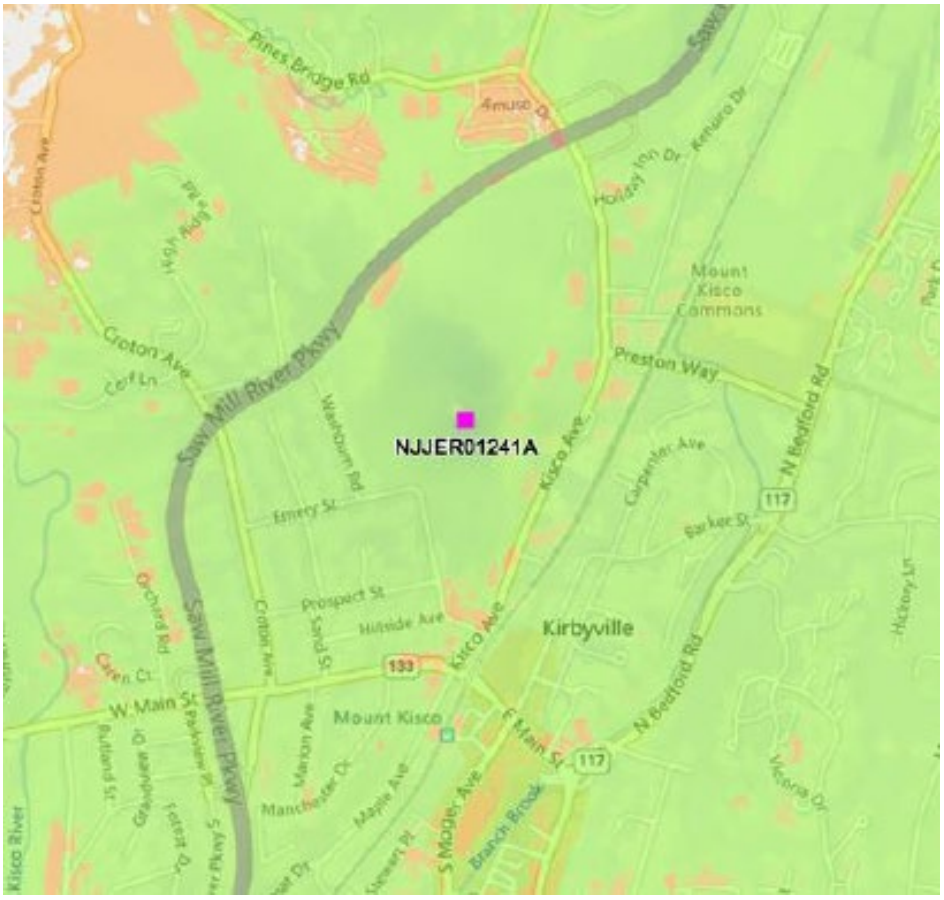
Based on a review of the application materials provided, the DISH co-location request does not substantially change the physical dimensions of the existing monopole or cell site, based on FCC Eligible Facilities Request (EFR) criteria. Overall, the monopole height is not proposed to change with the co-location. The proposed panel antenna dimensions are 72" tall by 20" wide by 8" deep and are comparable in size to existing panel antennas installed by other carriers at the site. Ground-based equipment proposed is comparable to (and small than) other ground-based equipment in-use at the site by the other carriers. No expansion of the existing fencing, or alterations to grading / landscaping are proposed.

Coverage / Service for the Proposed DISH Facility

DISH is a relatively new carrier to the area and is building out its network infrastructure. Currently, there is one approved DISH facility within the Village of Mount Kisco (a similar co-location to the one proposed, at the Lexington Avenue monopole site). That facility has not been constructed and its Building Permit application is under review at the current time. DISH is proposing to provide 5G broadband voice and data services to the Village and surrounding area.

The RF Justification report provided notes a lack of existing DISH service in the site area (inclusive of the downtown / E. Main Street area, portions of the Saw Mill River Parkway, portions of Route 117 / N. Bedford Road, and residential / commercial / institution land uses along these corridors). Coverage maps were provided:

Existing DISH service (green shading indicates existing In-Vehicle/In-Building service areas; orange shading indicates outdoor/unimpeded service areas; no shading indicates no signal or signal below reliable outdoor/unimpeded service criteria).



Proposed DISH service

Conformance with NIER and Other Radiation Hazard Criteria

To comply with the Non-Ionizing Electromagnetic Radiation (NIER) hazard criteria, EBI, on behalf of the applicant, calculated radio frequency (RF) levels for the proposed DISH equipment. As noted, DISH proposes to operate at its 600, 2000, and 2100 MHz licensed frequency ranges. High frequency (mmWave) 5G services are not being proposed. EBI based its RF emissions analysis on worst-case predictive modeling and determined there are no modeled areas on any accessible ground-level walking/working surfaces (including the nearby water tank) that exceed the FCC's occupational or general public maximum permissible exposure (MPE) limits at this site.

At the nearest walking/working surfaces to the DISH Wireless antennas, the maximum power density generated by the DISH antennas is approximately 3.7% of the FCC's general public MPE limit. The composite exposure level from DISH + existing carriers (including AT&T and T-Mobile) at areas which are accessible by the general public is approximately 6.8% of the FCC's general public MPE limit. The cell site will remain in compliance with the current FCC MPE criteria should the proposed DISH co-location be approved and constructed.

Structural Assessment

Crown's Structural Analysis (SA) Report determined the structural integrity of the monopole and acceptability of the tower stress level. Based on the analysis, it was determined the stress level for the tower structure and foundation is of sufficient capacity to carry the proposed load configurations of the DISH co-location. No structural modifications are required. HDR conducted spot-checks of the design criteria (TIA 222-H) and the information used in the SA against the 9-20-2023 Drawings; assumptions used to assess the monopole and foundation appear to correlate across these documents. The SA notes that the maximum structural rating of the monopole and foundation components *with* the proposed DISH co-location is noted to be 47.2%.

It is understood that the applicant and tower owner maintain full responsibility for the accuracy and adequacy of the co-location design and structural analysis, and for construction, operation, and compliance with Section 110-27.1 and other applicable Village code sections.

Recommendations

The following recommendations were identified based on HDR's technical review of the DISH co-location application. These recommendations can be considered as conditions of Site Plan Approval and/or Special Use Permit (if approved). It is noted that SEQRA review will need to be completed, and that a Building Permit will be required prior to equipment installation.

- **It is understood that the Building Department may request additional information from the applicant (DISH) or tower owner/operator (Crown) during the Building Permit review, including but not limited to information on proposed DISH construction sequencing considering the Crown corrective measures that are on-going at this cell site.**

- **Security fencing around the ground-based equipment and FCC signage should be routinely inspected and maintained at the site. The tower owner's (Crown's) contact information signage should also be maintained, and DISH-specific information should be posted.**

- **The proposed panel antennas, RRH units, all other proposed tower-mounted equipment, and visible portions of cables, shall be color matched to the existing monopole and equipment colors in accordance with the approved Site Plan for the monopole. A matte finish is recommended for all proposed DISH equipment.**

- **Future DISH operations should be maintained in accordance with Mount Kisco's Wireless Code and all other relevant Village code sections, and all applicable State/Federal requirements. Any proposed change in DISH's number or model of antennas, antenna sizes, operating frequencies (including future use of high-frequency ["mmWave"] 5G services), or number/sizes of other equipment from the**

information provided in the application materials and as noted on the 9-20-2023 Drawings shall be approved by the Village prior to any modifications.

- **The Village should review the application fees and escrow to verify they are adequate.**

- **As an incentive for Crown to complete the compliance items at the cell site (as noted in the Site Plan extension resolution), the Boards may consider the following condition for this DISH co-location application: that a certificate of occupancy / certificate of compliance not be issued to DISH (and DISH operations not be permitted to commence) until Crown has resolved the outstanding items to the satisfaction of the Building Inspector.**

It is understood that the Applicant's / Tower Owner's engineer maintains full responsibility (a) for the accuracy and adequacy of all aspects of the design and analyses provided to the Village, (b) for the construction and maintenance/operation of the DISH facility (and other existing wireless facilities), and (c) for compliance with all applicable local (including Code Section 110-27.1), State, and Federal rules and regulations.

Please do not hesitate to contact me with any questions or comments on the above.

Sincerely,

Henningson, Durham & Richardson
Architecture and Engineering, P.C.
in association with HDR Engineering Inc.

Michael P. Musso, P.E.

Michael P. Musso, P.E.

Senior Project Manager

Westchester County

Westchester County Planning Board Referral Review

Pursuant to Section 239 L, M and N of the General Municipal Law and Section 277.61 of the County Administrative Code

George Latimer
County Executive

November 14, 2023

Michelle Russo, Planning Board Secretary
Village/Town of Mount Kisco
104 Main Street
Mount Kisco, NY 10549

Dear Ms. Russo:

Thank you for the notification concerning the following proposed action:

Project Name/File Number:	**Dish Wireless — MTK 23-004**
Action:	**Special Use Permit**
Location:	**1 (AKA 81) Mountain Avenue (SBL 69.56-4-7)**

We have no objection to the Mount Kisco Planning Board assuming Lead Agency status for this review.

We have reviewed this matter under the provisions of Section 239 L, M and N of the General Municipal Law and Section 277.61 of the County Administrative Code and we find it to be a matter for local determination in accordance with your community's planning and zoning policies.

Please inform us of the Village/Town's decision so that we can make it a part of the record.

Thank you for calling this matter to our attention.

Respectfully,
WESTCHESTER COUNTY PLANNING BOARD

By: 

Blanca P. Lopez
Commissioner

BPL/MV

432 Michaelian Office Building
148 Martine Avenue
White Plains, New York 10601
Telephone: (914) 995-4400
Website: westchestergov.com

CUDDY +FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
T 914 761 1300
F 914 761 5372
cuddyfeder.com

Maximillian R. Mahalek, Esq.
mmahalek@cuddyfeder.com

11/30/23

VIA E-MAIL
Hon. Mayor and Members of the Board of Trustees
Village/Town of Mount Kisco
Village Hall
104 Main Street
Mount Kisco, NY 10549

Re: Dish Wireless – Eligible Facilities Request
Request for Special Use Permit Approval
Premises: 1 Mountain Avenue (Tax Parcel 69.56-4-7)

Dear Members of the Board of Trustees:

On behalf of Dish Wireless L.L.C. ("DISH" or the "Applicant"), we respectfully submit this letter in furtherance of its request for a Special Use Permit to co-locate wireless equipment at an existing wireless facility site located at 1 Mountain Avenue (Tax Parcel 69.56-4-7, the "Premises"). This matter was considered by this Board at Public Hearings held on November 6, 2023 and November 20, 2023. The Public Hearing is currently adjourned until the Board's meeting on December 4, 2023. This letter is being submitted ahead of the adjourned Hearing to request approval on December 4th.

The Planning Board Approval Conditions Already Addressed the
Extent of Any Village Concerns Related to the Tower Owner's Safety Work

DISH is not the tower owner. Crown Castle is, and is responsible for the condition of the site pursuant to approvals issued by the Village. DISH nor any of the other carriers at the site (Verizon, T-Mobile, AT&T, and the MTA) have an obligation or authority to address Crown Castle's site plan conditions or the tower itself.

On November 14, 2023, the Village/Town's Planning Board granted Site Plan Approval to DISH. The approval resolution states that:

> *Prior to the applicant's equipment going "on-line" or "on-air", a certificate of occupancy or certificate of compliance shall be secured and all outstanding safety corrections associated with the re-approval of the tower shall be completed to the satisfaction of the Building Inspector (see Planning Board Resolution pertaining to Crown Castle, dated October 10, 2023, Condition #1)).*

As such, the Village has already created the requisite business pressure it seeks to ensure Crown Castle completes any safety-related corrective actions necessary for compliance with its Village approvals and so that its tenant DISH can operate from the tower site.

Crown Castle has Addressed the Safety Concern Relevant to DISH's Equipment

DISH has been advised by Crown Castle that the gap in the gate has been repaired. Photographs of the "before and after condition" are enclosed as **Exhibit A**. There are no other safety considerations pertinent to this co-location. And any outstanding items like landscaping next year by Crown Castle are totally unrelated to DISH's collocation at the site. As such, the conditions in DISH's Site Plan Approval have already been satisfied.

Local Law Prefers and Federal Law Requires Approval of Collocations

This co-location, which reflects a substantial design change from a previously-proposed tower height extension, is prioritized by Section 110-27.1 of the Village/Town's Zoning Code. Under federal law, this co-location is also considered an eligible facilities request (or "EFR") and subject to mandatory approval of any zoning permits.[1] Additionally, the 60-day "shot clock" by which EFR applications must be approved expired months ago, and DISH has the authority under federal law to notify the Village that the permits have been deemed granted.[2] To not approve DISH's Special Use Permit would also represent a violation of federal law since other providers continue to provide services from this site - including Verizon, T-Mobile, and AT&T.[3]

Our client is requesting that the Board approve the Special Use Permit on December 4, 2023 so that we may coordinate with the Building Department on the issuance of a building permit shortly thereafter so that DISH may provide its services in the community.

Sincerely,

Maximilian R. Mahalek

Enclosure

cc: Mr. Peter Miley, Village/Town Building Inspector
Henningson, Durham & Richardson
Mr. Whitney W. Singleton, Esq., Village Counsel
DISH Wireless L.L.C.
Crown Castle

[1] See 47 U.S.C. § 1455(a)(1); FCC Declaratory Ruling (WT Docket No. 19-250; RM-11859) (May 19, 2020); FCC Report and Order (WST Docket Nos. 13-238, 11-59, and 13-32) (October 21, 2014); 47 C.F.R. Section 1.6100.
[2] 47 C.F.R. Section 1.6100 prohibits any discretionary review of an EFR.
[3] 47 U.S.C. Section 332(c)(7) (barring local action that prohibits service or unreasonably discriminates amongst wireless carriers).

Exhibit A

Exhibit A: Before-and-After Photographs Showing Gap in Fence/Gate Repaired by Crown Castle (Tower Owner) at 1 Mountain Avenue, Mt. Kisco

Lizette Davis

From: Edward Brancati
Sent: Wednesday, December 6, 2023 2:03 PM
To: Lizette Davis
Cc: Kenneth Famulare
Subject: Fwd: Consideration for Ethics Board
Attachments: Braille Diaz Professional Experience Resume_2019.docx

Interest in Ethics Board.

Sent from my iPhone

Begin forwarded message:

> **From:** Braille Diaz <brailleamanidiaz@gmail.com>
> **Date:** December 6, 2023 at 10:58:54 AM EST
> **To:** Edward Brancati <ebrancati@mountkiscony.gov>
> **Subject: Consideration for Ethics Board**
>
>
>
> Dear Mr. Brancati,
>
> I am writing you to be considered as a new member of the Ethics Board. I will leave a copy of my resume at the bottom of this email for you to review. If you have any questions please feel free to contact me via this email or call me at 914-514-0973. I look forward to hearing from you.
>
> Sincerely,
> Braille Diaz

Braille A. Diaz

25-607 Barker Street, Mount Kisco, NY 10549
[redacted]

Biography:

Braille A. Diaz is a community oriented student heavily involved in the local political arena. Braille comes from Mt.kisco NY were he was educated in the local public schools. During his time in highschool Braille became heavily involved in the local area elections interning and working for local politicians including county legislators, Judges and state senators. During this time he became president of his local highschool's republican club which at the time only consisted of seven members, after a year of Braille's leadership the membership had jumped to 33 registered students. At the same time Braille was working as a counselor at the local Boys and Girls Club. It was during this time as a camp counselor that Braille was tapped to represent the company before congress in 2019. During this period Braille had the opportunity to work with many public officials on both sides of the isle including Senate Majority leader Chuck Schumer, House Majority leader Paul Ryan, Rep. Rodney Davis, Rep Jim Sensenbrenner, Rep. Devin Nunes, Rep Mike Ferguson and Advisor to the President Ivanka Trump. Braille was also tapped to join the Legionaries of Christ in there Summer Internship Course which included meetings with Dan D'Aniello co-founder of the Carlyle group, Griff Jenkins of Fox News, Shawn Smeallie of the American Continental Group, Jim Clifton Ceo of Gallup and Counselor to the President Kellyanne Conway. After graduating highschool Braille entered Seminary and had the opportunity to work with many top officials of the Catholic Church including Cardinals Dolan, Wuerl, Pell, Burke and Mamberti. During this time Braille was given the opportunity to travel abroad, moving to Europe in 2020 were he stayed till August of 2023. During this time Braille has developed a fluency in French and has become conversational in Italian and Spanish.

- **Problem solving**
- **Dependable**
- **Multi-task to meet deadlines**
- **Respond to client needs**
- **Self-motivated**
- **Sound knowledge of volunteer principles**
- **Strong leadership skills**
- **Team building**
- **Wide experience in caring, leadership building in youth**
- **Ability to develop short and long term goals**
- **Articulate and present well**
- **Dedicated team player**
- **Evaluate, plan and implement activities**
- **Excellent Follow-up**
- **Extremely Organized**
- **Lead, influence groups of young and older people**
- **Prioritize**
- **Public Speaking**

Professional Experience:

- The American Legion: Boys State 2018 *appointed Boys Nation Delegate*
- Katonah American Legion Boys State Representative
- Brewster American Legion Commander of the Sons of the American Legion
- Leadership Training Program Internship 2018
- Lobbied for the Legionaries of Christ 2018
- Lobbied for Boys and Girls Club Northern Westchester and America 2018
- Boys and Girls Club Staff Counselor
- Boys and Girls Club Youth of the Year 2018
- Head Acolyte at St. Francis of Assisi, Mount Kisco, NY
- Interned NY State Campaign Elections (Westchester County)
- Interned Assistant Clerk for Bedford, NY Town Court
- Interned with Local Westchester County Legislator and Executive
- Interned for NY State Senator Terrence Murphy
- Interned for Westchester County Legislator David Tubiolo
- President of Fox Lane High School Political Club
- Officer of Fox Lane High School Debate Club
- Assistant Secretary for St. Francis of Assisi Church Mount Kisco, NY
- St. Francis of Assisi Catholic Youth Group,
- Eucharistic Minister at St. Francis of Assisi
- Appointed Student Body Representative of Principal Advisory Committee (Sophomore Year FLHS)
- Appeared on National Television, Movie, Commercials, Print Ads, News Channels
- Seminary master of ceremonies at Institute of Christ the King
- Retreat master at Institute of Christ the King
- Volunteer Firefighter at Mt. Kisco Fire Department
- Catechist at St.Francis of Assisi Mt.Kisco
- 4th Degree Knight of Columbus

Education

Fox Lane High School, Bedford NY… Academics Diploma *in 2019*

Immaculate Conception Seminary 2019-20

St. Phillip Neri International Seminary 2020-23

Foreign Languages

- *French (fluent)*
- *Spanish (conversational)*
- *Italian (conversational)*
- *German (limited)*

Lizette Davis

From: Mayor J. Michael Cindrich
Sent: Wednesday, December 13, 2023 12:37 AM
To: Lizette Davis
Subject: Traffic & Pedestrian Safety Committee

Lizette,
Robert (Bob) Neidzwiedz has applied to serve on the traffic & pedestrian safety committee. He is a certified driver trainer. His contact information to follow. Please include on the 12/18 agenda Michael Cindrich

Sent from my iPhone

VEOLIA

Village/Town of Mount Kisco

Monthly Report

Byram Lake Water Treatment Plant
Leonard Park Water Treatment Plant

David Connor
Area Manager

Stephen Schmidt
Project Manager

November 2023

Facility Overview

Byram Lake Water Filtration Plant

- During the month of November the treatment plant produced a total of 40,389,000 gallons for a daily average production of 1,346,300 gallons per day (gpd). Peak production occurred on November 7th, with 1,790,000 gallons produced. The October average production was 1,495,516gpd and the September average production was 1,515,233gpd (Note: Due to the loss of the Controlotron flow meter, we are using the Rosemount back up which is less accurate during night flows.)

Leonard Park Wells Water Treatment

- During the month of November Leonard Park was used. Total monthly production from Leonard Park was 2,012,494 gallons for a daily average production 223,610 gpd. The October average was 83,696gpd and the September average production was 45,301gpd. The wells are on at this time, with Bedford taking water.

Total Water Production

- The total water production for the month of November was 42,401,494 gallons, for an average production of 1,413,383gpd. The October average was 1,579,213gpd and the September average production was 1,560,535gpd

Byram Lake Status

- On November 1st Byram Lake Reservoir was at 100 % of capacity. On November 30th, the lake capacity was 100%. The Leonard Park Wells are Off at this time.

Overnight Flow Evaluation

- We have attached a spreadsheet evaluating drop in the clear well (CW) levels between the hours of 2:00 and 4:00 AM. The spreadsheet converts the tank drop to average flow rates in gallons per minute (gpm). The November readings are not included due to the continuing SCADA communication issue.

Compliance Overview

- During the month all State and Federal treatment standards were met. The combined filter effluent turbidity readings were below the 0.3 NTU limit. The highest recorded combined filter effluent turbidity was .196 NTUs and the average effluent turbidity was .107 NTUs.

- November's water quality met or exceeded all State and Federal Drinking Water Standards. A copy of the routine monthly monitoring results collected can be reviewed in the Monthly DOH report that was forwarded earlier this month.

Proposed Projects Pending Approval

In November we took these actions to begin soliciting proposals for the following repair projects. We will present the proposals with our recommendations when the information is available:

Quotes for new raw water Inline turbidimeter.

Quotes for new chemical pumps.

Plans to replace aging raw water pipe at the pump station.

Projects In Process

In November the following actions were taken to move forward on approved projects

Maintenance of various equipment.

Completed equipment assessment list.

SCADA communication work continuing.

Sludge Removal

Completed Projects

During November the following maintenance and repair projects were completed. The work was completed by our staff unless otherwise noted:

- November 1st- Repaired aerator line at Leonard Park.
- November 2nd- Company on site, continuing siding work on the building.
- November 5th- Lost raw water flow. Primed main pump.
- November 6th- Started feeding potassium permanganate.
- November 7th- Reset Leonard Park high level alarm.
- November 7th- Working on polymer system. Cleaned and flushed system.
- November 7th- Tightened fitting on PACL chemical feed pump.
- November 8th- Cleared clog on the suction line of the PACL feed pump.
- November 8th- Cleaned up PACL area.
- November 9th- Optimum down at Raw Water Pump Station checking wires.
- November 10th- Company on site to finish roofing/siding job.
- November 13th- Monthly samples plus POC raw water samples.
- November 16th- A&M Compressor on site for semi-annual maintenance.
- November 18th- Started experiment with powdered polymer.
- November 20th- Eyewash and emergency shower checked.

- November 22nd- A window at the pump station was broken. Installed plexiglass for now.
- November 22nd- Installed new chemical pump for the polymer "experiment".
- November 23rd- Rebooted communications to SCADA #1. Cable was loose.
- November 27th- Ended polymer "Experiment". Results were not satisfactory for continued operation. Would need to upscale the batching system and try different polymers. Back feeding our "usual" polymer.
- November 27th- Sampled Raw Water and Leonard Park Wells (Raw) for SOCs.
- November 30th- Found "Low Engine Temp." indicator light on at the pump station generator. Found the block heater not circulating. Unplugged and plugged back in. Started working.
- November 30th- Took apart feed line for polymer and flushed.
- November 30th- Rechecked block heater on the pump station generator, before leaving for the day. Was not circulating and indicator light was back on. Will call Kinsley to troubleshoot.

DATE	Leonard Park Well GROUND	Water Plant SURFACE	TOTAL
01-Nov-23	223,278	1,409,000	1,632,278
02-Nov-23	203,905	1,418,000	1,621,905
03-Nov-23	225,821	1,358,000	1,583,821
04-Nov-23	209,814	1,350,000	1,559,814
05-Nov-23	191,264	1,377,000	1,568,264
06-Nov-23	132,695	1,499,000	1,631,695
07-Nov-23	0	1,790,000	1,790,000
08-Nov-23	0	1,409,000	1,409,000
09-Nov-23	0	1,291,000	1,291,000
10-Nov-23	0	1,303,000	1,303,000
11-Nov-23	0	1,350,000	1,350,000
12-Nov-23	0	1,258,000	1,258,000
13-Nov-23	0	1,546,000	1,546,000
14-Nov-23	0	1,511,000	1,511,000
15-Nov-23	0	1,394,000	1,394,000
16-Nov-23	0	1,273,000	1,273,000
17-Nov-23	0	1,348,000	1,348,000
18-Nov-23	0	1,212,000	1,212,000
19-Nov-23	0	1,183,000	1,183,000
20-Nov-23	0	1,432,000	1,432,000
21-Nov-23	0	1,322,000	1,322,000
22-Nov-23	0	1,402,000	1,402,000
23-Nov-23	0	1,319,000	1,319,000
24-Nov-23	274,067	916,000	1,190,067
25-Nov-23	289,925	957,000	1,246,925
26-Nov-23	228,065	1,026,000	1,254,065
27-Nov-23	33,660	1,366,000	1,399,660
28-Nov-23	0	1,490,000	1,490,000
29-Nov-23	0	1,680,000	1,680,000
30-Nov-23	0	1,200,000	1,200,000
TOTAL	2,012,494	40,389,000	42,401,494
DAILY AVERAGE	67,083	1,346,300	1,413,383

OFF LINE **11/7/2023 - 11/23/2023**
11/28/2023 - 11/30-2023

MOUNT KISCO WATER PLANT MONTHLY FLOW READINGS

	Byram		Recycle			Combine Eff.				
	Raw Flow	November-23								
Date	Reading 12pr	Flow	Reading 12pm	Flow	Flow	Reading 12	Date	Recycle	CFE+Rec	Raw-Rec
1	5603643	2.003	701940440	98400	1,409,000	3810066	1	0.0984	1,409,000	1.905
2	5605716	1.929	702038840	98400	1,418,000	3811475	2	0.0984	1,418,000	1.831
3	5607715	2.012	702137240	98400	1,358,000	3812893	3	0.0984	1,358,000	1.914
4	5609797	1.836	702235640	88650	1,350,000	3814251	4	0.0887	1,350,000	1.747
5	5611703	1.941	702324290	98400	1,377,000	3815601	5	0.0984	1,377,000	1.843
6	5613714	2.191	702422690	88650	1,499,000	3816978	6	0.0887	1,499,000	2.102
7	5615975	2.306	702511340	88650	1,790,000	3818477	7	0.0887	1,790,000	2.217
8	5618351	2.106	702599990	98400	1,409,000	3820267	8	0.0984	1,409,000	2.008
9	5620527	2.065	702698390	138300	1,291,000	3821676	9	0.1383	1,291,000	1.927
10	5622662	1.970	702836690	98400	1,303,000	3822967	10	0.0984	1,303,000	1.872
11	5624702	2.002	702935090	138300	1,350,000	3824270	11	0.1383	1,350,000	1.864
12	5626774	1.961	703073390	98400	1,258,000	3825620	12	0.0984	1,258,000	1.863
13	5628805	2.210	703171790	108150	1,546,000	3826878	13	0.1082	1,546,000	2.102
14	5631085	2.068	703279940	178200	1,511,000	3828424	14	0.1782	1,511,000	1.890
15	5633223	2.111	703458140	98400	1,394,000	3829935	15	0.0984	1,394,000	2.013
16	5635404	1.981	703556540	138300	1,273,000	3831329	16	0.1383	1,273,000	1.843
17	5637455	2.020	703694840	128550	1,348,000	3832602	17	0.1286	1,348,000	1.891
18	5639545	2.046	703823390	138300	1,212,000	3833950	18	0.1383	1,212,000	1.908
19	5641661	2.079	703961690	157800	1,183,000	3835162	19	0.1578	1,183,000	1.921
20	5643810	2.163	704119490	148050	1,432,000	3836345	20	0.1481	1,432,000	2.015
21	5646043	2.153	704267540	78900	1,322,000	3837777	21	0.0789	1,322,000	2.074
22	5648266	2.374	704346440	197700	1,402,000	3839099	22	0.1977	1,402,000	2.176
23	5650710	1.763	704544140	98400	1,319,000	3840501	23	0.0984	1,319,000	1.665
24	5652543	2.104	704642540	138300	916,000	3841820	24	0.1383	916,000	1.966
25	5654717	2.029	704780840	138300	957,000	3842736	25	0.1383	957,000	1.891
26	5656816	1.952	704919140	108150	1,026,000	3843693	26	0.1082	1,026,000	1.844
27	5658838	2.294	705027290	157800	1,366,000	3844719	27	0.1578	1,366,000	2.136
28	5661202	2.134	705185090	98400	1,490,000	3846085	28	0.0984	1,490,000	2.036
29	5663406	2.095	705283490	138300	1,680,000	3847575	29	0.1383	1,680,000	1.957
30	5665571	2.032	705421790	108150	1,200,000	3849255	30	0.1082	1,200,000	1.924
1	5667673		705529940			3850455	1			
SUM		61.930		3589500	40,389,000	40,389,004		3.59	40,389,004	58.34
AVG		2.064		119650	1,346,300	* Above #		0.120	1,346,300	1.945
SCk		61930		3590	40389	is Combined				
AVG		2064		120	1346	Eff.Flow + Rec				

Date	Meter Reading	Flow	Leonard Park Main Flow	Lake Level
			November-23	*Feet
11/1	75064560	223,278	On Line	6.00
11/2	75094410	203,905	On Line	6.00
11/3	75121670	225,821	On Line	6.00
11/4	75151860	209,814	On Line	6.00
11/5	75179910	191,264	On Line	6.00
11/6	75205480	132,695	On Line	6.00
11/7	75223220	0	Off Line	6.00
11/8	75223220	0	Off Line	6.00
11/9	75223220	0	Off Line	6.00
11/10	75223220	0	Off Line	6.00
11/11	75223220	0	Off Line	6.00
11/12	75223220	0	Off Line	6.00
11/13	75223220	0	Off Line	6.00
11/14	75223220	0	Off Line	6.00
11/15	75223220	0	Off Line	6.00
11/16	75223220	0	Off Line	6.00
11/17	75223220	0	Off Line	6.00
11/18	75223220	0	Off Line	6.00
11/19	75223220	0	Off Line	6.00
11/20	75223220	0	Off Line	6.00
11/21	75223220	0	Off Line	6.00
11/22	75223220	0	Off Line	6.00
11/23	75223220	0	Off Line	6.00
11/24	75223220	274,067	On Line	6.00
11/25	75259860	289,925	On Line	6.00
11/26	75298620	228,065	On Line	6.00
11/27	75329110	33,660	On Line	6.00
11/28	75333610	0	Off Line	6.00
11/29	75333610	0	Off Line	6.00
11/30	75333610	0	Off Line	6.00
12/1	75333610			
		2012494	* Note: These are visual	
		223610	readings from the level	
			gauge located at the	
			spillway.	

November-23			COMBINED FILTER TURBIDITY				
.	Filter	Filter	Filter	Filter	Filter	Filter	Average
	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Daily
Date	12:00 A.M	4:00 A.M.	8:00 A.M.	12:00 P.M.	4:00 P.M.	8:00 P.M.	Turbidity
1	O.L.	O.L.	0.087	0.102	0.097	O.L.	0.095
2	O.L.	O.L.	0.087	0.093	0.090	O.L.	0.090
3	O.L.	O.L.	0.111	0.095	0.097	O.L.	0.101
4	O.L.	O.L.	0.088	0.086	0.088	O.L.	0.087
5	O.L.	O.L.	0.096	0.077	0.079	O.L.	0.084
6	O.L.	O.L.	0.093	0.220	0.189	O.L.	0.167
7	O.L.	O.L.	0.198	0.187	0.203	O.L.	0.196
8	O.L.	O.L.	0.141	0.098	0.093	O.L.	0.111
9	O.L.	O.L.	0.121	0.101	0.111	O.L.	0.111
10	O.L.	O.L.	0.103	0.106	0.109	O.L.	0.106
11	O.L.	O.L.	0.083	0.104	0.101	O.L.	0.096
12	O.L.	O.L.	0.086	0.077	0.095	O.L.	0.086
13	O.L.	O.L.	0.095	0.107	0.102	O.L.	0.101
14	O.L.	O.L.	0.112	0.136	0.113	O.L.	0.120
15	O.L.	O.L.	0.098	0.098	0.101	O.L.	0.099
16	O.L.	O.L.	0.098	0.057	0.087	O.L.	0.081
17	O.L.	O.L.	0.112	0.157	0.120	O.L.	0.130
18	O.L.	O.L.	0.147	0.105	0.109	O.L.	0.120
19	O.L.	O.L.	0.079	0.093	0.097	O.L.	0.090
20	O.L.	O.L.	0.125	0.093	0.099	O.L.	0.106
21	O.L.	O.L.	0.099	0.072	0.071	O.L.	0.081
22	O.L.	O.L.	0.122	0.142	0.092	O.L.	0.119
23	O.L.	O.L.	0.088	0.084	0.094	O.L.	0.089
24	O.L.	O.L.	0.097	0.094	0.099	O.L.	0.097
25	O.L.	O.L.	0.093	0.098	0.095	O.L.	0.095
26	O.L.	O.L.	0.108	0.119	0.130	O.L.	0.119
27	O.L.	O.L.	0.124	0.113	0.115	O.L.	0.117
28	O.L.	O.L.	0.117	0.093	0.090	O.L.	0.100
29	O.L.	O.L.	0.121	0.141	0.117	O.L.	0.126
30	O.L.	O.L.	0.143	0.081	0.084	O.L.	0.103
All results are in NTU's							
		MIN.	**0.081**				
		MAX.	**0.196**				
		AVG.	**0.107**				

Village offices will be closed December 25, 2023.

Bottles and cans will be picked up VILLAGE WIDE on Tuesday December 26, 2023.

Paper and cardboard will be picked up VILLAGE WIDE on Wednesday, December 27, 2023.

Las oficinas del pueblo están cerrado 25 de diciembre 2023.

Se recogerá botellas y latas en el PUEBLO ENTERO martes, 26 de diciembre 2023.

Se recogerá papel y cartón en el PUEBLO ENTERO miércoles, 27 de diciembre 2023.

Village offices will be closed January 1, 2024.

Bottles and cans will be picked up VILLAGE WIDE on Tuesday January 2, 2024.

Paper and cardboard will be picked up VILLAGE WIDE on Wednesday, January 3, 2024.

Las oficinas del pueblo están cerrado 1 de enero 2024.

Se recogerá botellas y latas en el PUEBLO ENTERO martes, 2 de enero 2024.

Se recogerá papel y cartón en el PUEBLO ENTERO miércoles, 3 de enero 2024.

Village/Town of Mount Kisco

There are currently vacancies on several Village Boards, Committees and Commissions. Any Village Resident interested in filling these positions is asked to forward a letter of interest along with a resume to Mayor Picinich and the Village Board of Trustees, Village/Town of Mount Kisco 104 Main Street, Mount Kisco NY 10549 or send it via email to Village Manager Edward W. Brancati at Villagemgr@mountkiscony.gov. An outline describing the powers, duties and responsibilities of these boards are available upon request.

- **Tree Preservation Board - 2 vacancies**
- **Conservation Advisory Council - 4 vacancies**
- **Byram Lake Committee - 3 vacancies**
- **Leonard Park Committee - 6 vacancies**
- **Planning Board - 1 member, 1 Alternate**
- **Zoning Board of Appeals - 1 member**
- **Historical Society - 1 vacancy**
- **Housing Board - 1 Vacancy**
- **Board of Ethics - 2 vacancies**
- **Recreation Commission - 1 vacancy**
- **Landmark & Historical Preservation Commission - 1 Vacancy**
- **Economic Development Council - 1 Vacancy**
- **Climate Smart Communities Task Force - 4 Vacancies**

Actualmente hay vacantes en varias Juntas, Comités y Comisiones del pueblo. Se solicita a cualquier residente de Village interesado en ocupar estos puestos que envíe una carta de interés junto con un currículum al alcalde Picinich y a la Junta del pueblo, Village/Town of Mount Kisco 104 Main Street, Mount Kisco NY 10549 o envíela por correo electrónico a El administrador, Edward W. Brancati, en Villagemgr@mountkiscony.gov. Un esquema que describe los poderes, deberes y responsabilidades de estas juntas está disponible a pedido.

- **Tree Preservation Board - 2 vacancies**
- **Conservation Advisory Council - 4 vacancies**
- **Byram Lake Committee - 3 vacancies**
- **Leonard Park Committee - 6 vacancies**
- **Planning Board - 1 member, 1 Alternate**
- **Zoning Board of Appeals - 1 member**
- **Historical Society - 1 vacancy**
- **Housing Board - 1 Vacancy**
- **Board of Ethics - 2 vacancies**
- **Recreation Commission - 1 vacancy**
- **Landmark & Historical Preservation Commission - 1 Vacancy**
- **Economic Development Council - 1 Vacancy**
- **Climate Smart Communities Task Force - 4 Vacancies**

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150 Tel (914) 241-0500
• Fax (914) 241-9018
www.mountkiscony.gov

OATH OF OFFICE

STATE OF NEW YORK)
:ss.: MOUNT KISCO
COUNTY OF WESTCHESTER)

I, **Michael McGuirk** having been appointed as **Co-Chair** to the **Planning Board** for the Village/Town of Mount Kisco do solemnly swear that I will support the Constitution of the United States and the Constitution of the State of New York, and that I am eligible to hold the office to which I have been appointed, and that I will faithfully discharge the duties thereof to the best of my ability.

_____

Subscribed and sworn to before me

This _____ day of _____, 20__

_____

Notary Public

Appointed: December 4, 2023
Term Expires: December 1, 2024

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150 Tel (914) 241-0500
• Fax (914) 241-9018
www.mountkiscony.gov

OATH OF OFFICE

STATE OF NEW YORK)
:ss.: MOUNT KISCO
COUNTY OF WESTCHESTER)

I, **Crystal Pickard** having been appointed as **Co-Chair** to the **Planning Board** for the Village/Town of Mount Kisco do solemnly swear that I will support the Constitution of the United States and the Constitution of the State of New York, and that I am eligible to hold the office to which I have been appointed, and that I will faithfully discharge the duties thereof to the best of my ability.

_____

Subscribed and sworn to before me

This _____ day of _____, 20__

_____

Notary Public

Appointed: December 4, 2023
Term Expires: December 1, 2024

VILLAGE/TOWN OF MOUNT KISCO

WESTCHESTER COUNTY, NEW YORK
104 Main Street, Mount Kisco, NY 10549-0150 Tel (914) 241-0500
• Fax (914) 241-9018
www.mountkiscony.gov

OATH OF OFFICE

STATE OF NEW YORK)
:ss.: MOUNT KISCO
COUNTY OF WESTCHESTER)

I, **Michael Bonforte** having been appointed as a **Member** to the **Planning Board** for the Village/Town of Mount Kisco do solemnly swear that I will support the Constitution of the United States and the Constitution of the State of New York, and that I am eligible to hold the office to which I have been appointed, and that I will faithfully discharge the duties thereof to the best of my ability.

_____

Subscribed and sworn to before me

This _____ day of _____, 20__

_____

Notary Public

Appointed: December 18, 2023
Term Expires: December 6, 2027

VILLAGE/TOWN OF MOUNT KISCO
WESTCHESTER COUNTY, NEW YORK
104 Main Street
Mount Kisco, New York 10549-0150

Telephone
(914) 241-0500

2024 Village Board of Trustees Meetings

Tuesday	***January 2, 2024***	***7:00pm***	***Regular Meeting***
Thursday	***January 18, 2024***	***7:00pm***	***Regular Meeting***
Monday	February 5, 2024	7:00pm	Regular Meeting
Thursday	***February 22, 2024***	***7:00pm***	***Regular Meeting***
Monday	March 4, 2024	7:00pm	Regular Meeting
Monday	March 18, 2024	7:00pm	Regular Meeting
Monday	April 1, 2024	7:00pm	Regular Meeting
Monday	April 15, 2024	7:00pm	Regular Meeting
Monday	May 6, 2024	7:00pm	Regular Meeting
Monday	May 20, 2024	7:00pm	Regular Meeting
Monday	June 3, 2024	7:00 pm	Regular Meeting
Monday	June 17, 2024	7:00pm	Regular Meeting
Monday	July 15, 2024	7:00pm	Regular Meeting
Monday	August 19, 2024	7:00pm	Regular Meeting
Wednesday	***September 4, 2024***	***7:00pm***	***Regular Meeting***
Monday	September 16, 2024	7:00pm	Regular Meeting
Monday	October 7, 2024	7:00pm	Regular Meeting
Monday	October 21, 2024	7:00pm	Regular Meeting
Monday	November 4, 2024	7:00pm	Regular Meeting
Monday	November 18, 2024	7:00pm	Regular Meeting
Monday	December 2, 2024	7:00pm	Annual Meeting
Monday	December 16, 2024	7:00 pm	Regular Meeting

THE
ASSOCIATION OF TOWNS
OF THE
STATE OF NEW YORK

GERALD K. GEIST
Executive Director

KIMBERLY A. SPLAIN
Deputy Director

150 State Street
Albany, NY 12207

Telephone
Area Code 518 – 465-7933
Fax # 518 – 465-0724

LORI A. MITHEN-DeMASI
Counsel

SARAH B. BRANCATELLA
Associate Counsel

KATHLEEN N. HODGDON
Associate Counsel

October 30, 2023

Dear Town Clerk:

I'm writing to remind your town to assign a delegate (and an alternate) to attend our Annual Business Meeting with the purpose of electing the president, five vice presidents and voting on the Association's annual legislative platform. Assignments should be made to town officials who plan on attending the 2024 Training School and Annual Meeting, to be held at the New York Marriott Marquis, February 18-21, 2024.

To assign your delegate: The town board must adopt a resolution designating its delegate (and alternate). The alternate will assume delegate voting responsibilities if, the delegate cannot vote for any reason. After the resolution complete and submit the enclosed Certificate of Designation to us no later than **February 2, 2024**.

Important dates for the delegate: The optional Informational Budget Hearing will be held Sunday, February 18, 2024. Voting will take place at the Annual Business Meeting on Wednesday, February 21, 2024.

A note about membership dues: For a delegate to cast their vote at the Annual Business Meeting, your town's 2024 dues must be received in the office by February 2, 2024. We are unable to apply dues payments received by mail in our office after that date, no exceptions.

Kindest regards,

Gerald K. Geist
Executive Director

CERTIFICATE OF DESIGNATION

This form must be filed with:
THE ASSOCIATION OF TOWNS OF THE STATE OF NEW YORK, 150 STATE STREET, ALBANY, NY 12207

By FEBRUARY 2, 2024
In order to establish eligibility and credentials to vote at the 2024 Business Session

TO: THE OFFICERS AND MEMBERS OF
The Association of Towns of the State of New York

To Ensure Correct Spelling On Badges, Please Print Or Type

I, _____, Town Clerk of the Town of _____, in the County of _____ and State of New York DO HEREBY CERTIFY that the town board of the aforesaid town has duly designated the following named person to attend the Annual Business Session of the Association of Towns of the State of New York, to be held during February 21, 2024, and to cast the vote of the aforesaid town, pursuant to §6 of Article III of the Constitution and Bylaws of said Association:

NAME OF VOTING DELEGATE_____

TITLE_____E-MAIL ADDRESS_____

ADDRESS_____

In the absence of the person so designated, the following named person has been designated to cast the vote of said town:

NAME OF ALTERNATE_____

TITLE_____E-MAIL ADDRESS_____

ADDRESS _____

In WITNESS WHEREOF, I have hereunto set my hand and the seal of said town this _____ day of _____, 20___.

_____
Town Clerk

RESOLUTION OF THE VILLAGE BOARD OF TRUSTEES
VILLAGE/TOWN OF MOUNT KISCO
DECEMBER 18, 2023

LEONARD PARK WALKING TRAIL PROJECT

Community Resiliency, Economic Resiliency, and Technology Grant Program

Moved by:
Second by:

WHEREAS, The Village/Town of Mount Kisco, New York (hereinafter the "Village") has established the public benefit of the Leonard Park Walking Trail Project (hereinafter the "Project); and

WHEREAS, the Village plans to upgrade existing walking areas and make necessary connections within Leonard Park to create a pedestrian and bicycle path that will run a complete loop around the park, allowing visitors to reach all of the park's facilities including Wallace Pond; the Tea House; the basketball, volleyball, bocce, and tennis courts; our ADA compliant playground facilities, the Memorial Pool complex and multi-purpose gym; and our baseball, softball, and soccer fields; connect to existing trails in the park as well as existing sidewalks along Route 117 and Route 172; provide a positive recreation experience while promoting public health; and enable pedestrians and bicyclists to safely access and explore the park; and,

WHEREAS, this project has been reviewed by the Leonard Park Committee and the Recreation Commission and they support this project as currently planned;

WHEREAS, the Village has the opportunity to receive grant funds from the New York State Community Resiliency, Economic Resiliency, and Technology Grant Program (CREST) to cover a portion of the total project costs; and,

WHEREAS, the total project cost is estimated at $400,000; and,

WHEREAS, the Village is prepared to cover the remaining balance of the total project cost through its Capital Fund and debt issued for this and other park improvements that have been completed; and,

THEREFORE, BE IT RESOLVED THAT, the Village Manager of the Village/Town of Mount Kisco is authorized to submit and sign all necessary paperwork associated with a CREST grant for this project and the Village agrees to provide the remaining funds necessary to complete this project.

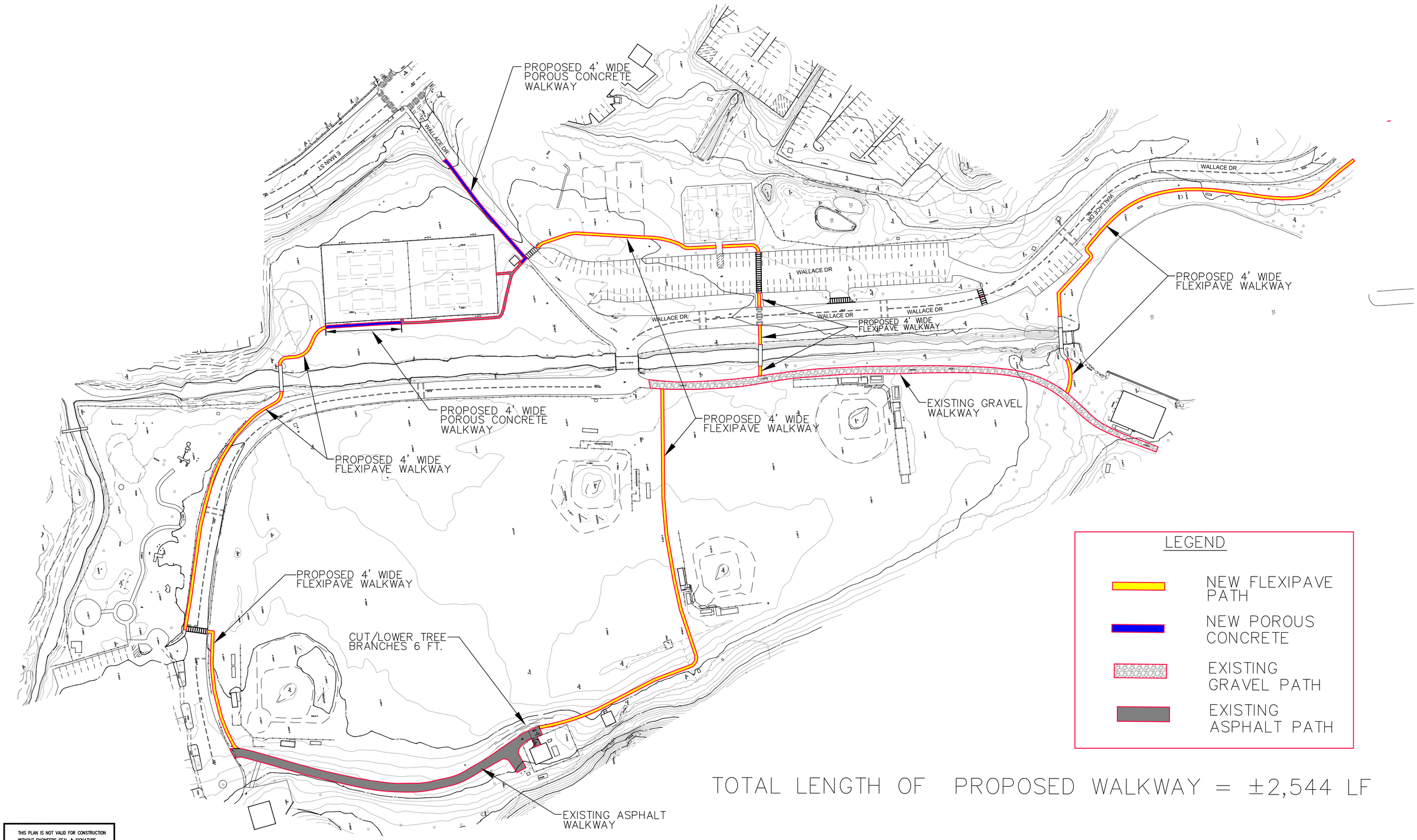
The Board of Trustees of the Village/Town of Mount Kisco voted as follows:

	AYE	NAY	ABSTAIN	ABSENT
J. Michael Cindrich, Mayor:				
Theresa Flora, Deputy Mayor:				
Lisa C. Abzun, Trustee:				
Angie Guerra, Trustee:				
Karen B. Schleimer, Trustee:				

The above resolution constitutes the determination of the Board of Trustees for the Village/Town of Mount Kisco. This document was duly adopted on the 18th day of December, 2023 and shall constitute the Resolution of the Board of Trustees.

_____

Edward W. Brancati, Village Manager



TOTAL LENGTH OF PROPOSED WALKWAY = ±2,544 LF

THIS PLAN IS NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

PLOTTED DATE: 11/2/2023

DESIGNER/DRAFTER: AL
CHECKED BY: AO
APPROVED BY: AO

ENGINEER:
AI Engineers
dolph rotfeld engineering division
570 TAXTER ROAD, ELMSFORD, NY 10523
(914) 631-8600

FILENAME: PARK PATH 11-2-23.DWG

SIGNATURE/ BLOCK:

PROJECT TITLE: LEONARD PARK PATH

MUNICIPALITY: VILLAGE OF MT. KISCO, NEW YORK

DRAWING TITLE: CONCEPT PLAN

PROJECT NO. D010

DRAWING NO. C-1

SHEET NO. 1 of 1