

Exhibit W
Microwave Study
Westwood
March 2, 2021

Wind Power GeoPlanner™

Microwave Study

Grover Hill Wind Project



Prepared on Behalf of
Westwood Professional
Services, Inc.

March 2, 2021



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1. Introduction

Microwave bands that may be affected by the installation of wind turbine facilities operate over a wide frequency range (900 MHz – 23 GHz). Comsearch has developed and maintains comprehensive technical databases containing information on licensed microwave networks throughout the United States. These systems are the telecommunication backbone of the country, providing long-distance and local telephone service, backhaul for cellular and personal communication service, data interconnects for mainframe computers and the Internet, network controls for utilities and railroads, and various video services. This report focuses on the potential impact of wind turbines on licensed, proposed and applied non-federal government microwave systems.

2. Project Overview

Project Information

Name: Grover Hill Wind Project

County: Paulding

State: Ohio

Number of Turbines: 25

Blade Diameter: 162 meters

Hub Height: 119 meters

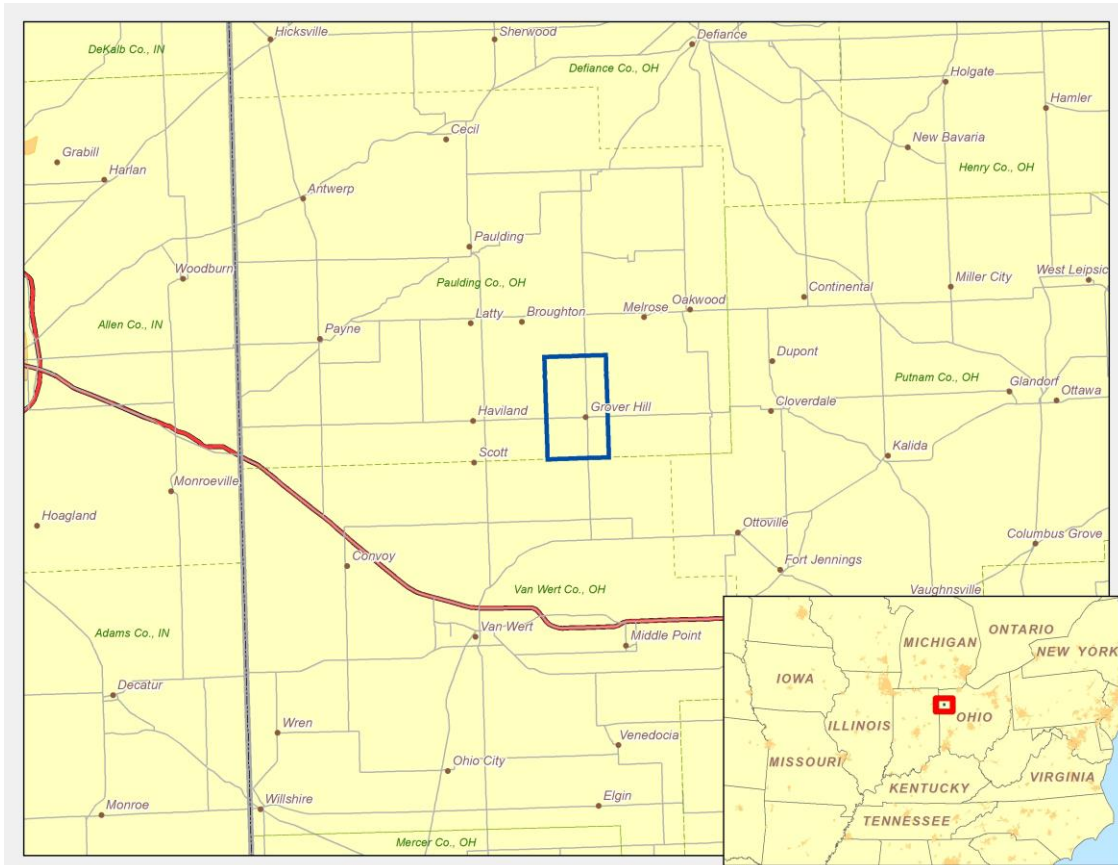


Figure 1: Area of Interest

3. Two-Dimensional Fresnel Zone Analysis

Methodology

Our obstruction analysis was performed using Comsearch's proprietary microwave database, which contains all non-government licensed, proposed and applied paths from 0.9 - 23 GHz¹. First, we determined all microwave paths that intersect the area of interest² and listed them in Table 1. These paths and the area of interest that encompasses the planned turbine locations are shown in Figure 2.

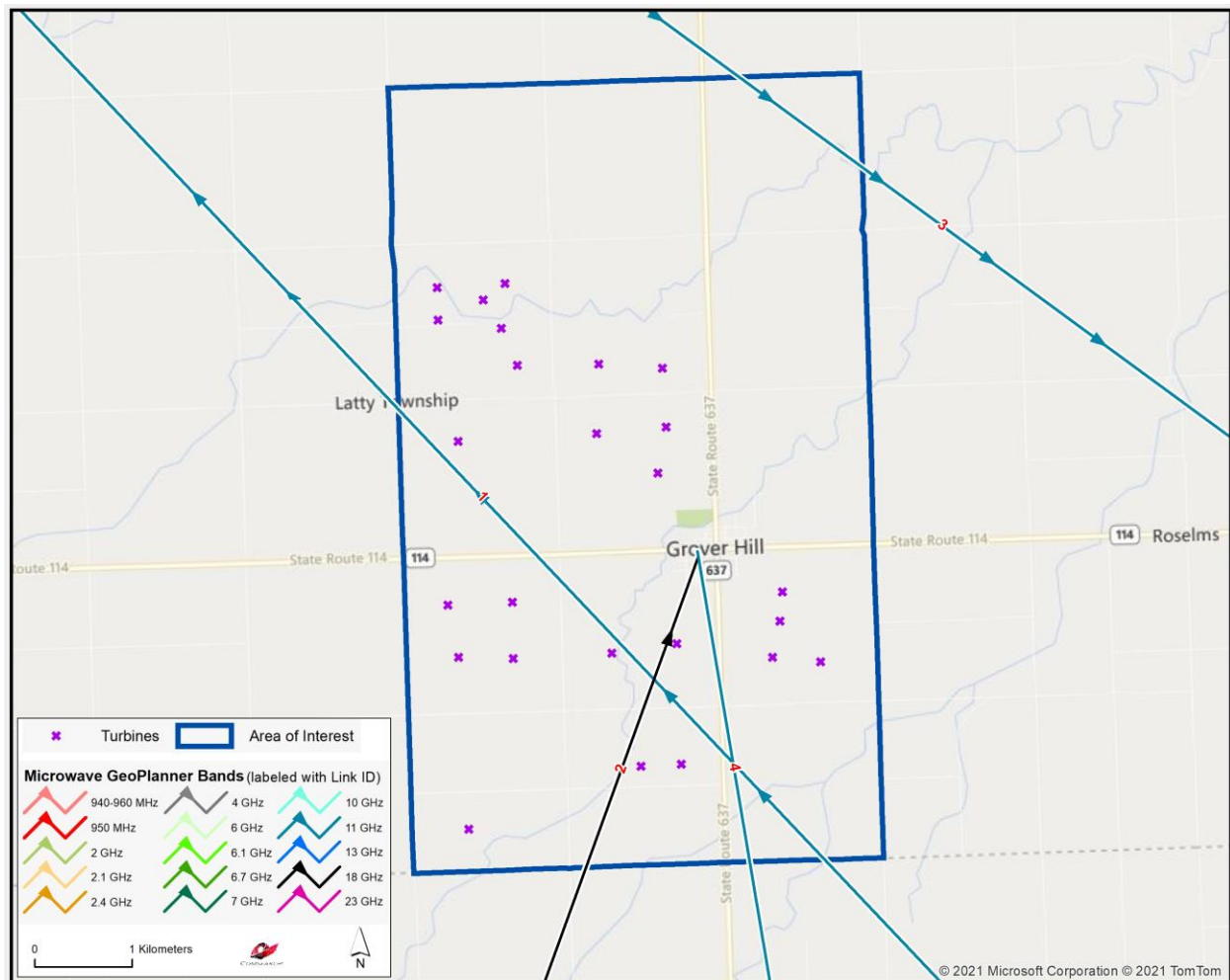


Figure 2: Microwave Paths that Intersect the Area of Interest

¹ Please note that this analysis does not include unlicensed microwave paths or federal government paths that are not registered with the FCC.

² We use FCC-licensed coordinates to determine which paths intersect the area of interest. It is possible that as-built coordinates may differ slightly from those on the FCC license.

ID	Status	Callsign 1	Callsign 2	Band	Path Length (km)	Licensee
1	Licensed	WQRX775	WQRY695	11 GHz	15.85	Sprint Spectrum L.P.
2	Licensed	WQTX715	WQZW695	18 GHz	8.28	MetaLINK Technologies, Inc.
3	Licensed	WQYJ953	WQYI235	11 GHz	20.46	Paulding-Putnam Electric Cooperative
4	Licensed	WRJL891	WRJL894	11 GHz	17.97	Wabash Communications, Inc

Table 1: Summary of Microwave Paths that Intersect the Area of Interest

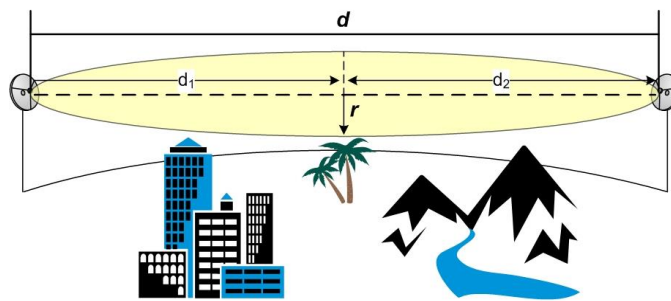
(See enclosed mw_geopl.xlsx for more information and
GP_dict_matrix_description.xls for detailed field descriptions)

Verification of Coordinate Accuracy

It is possible that as-built coordinates may differ from those on the FCC license. For this project, path IDs 1-2 and 4 cross within close proximity of the proposed turbines and the tower locations for these paths will have a critical impact on the result. Therefore, we verified these locations using aerial photography. All the tower locations were found to be consistent with the locations on the aerial photos³.

Next, we calculated a Fresnel Zone for each path based on the following formula:

$$r \cong 17.3 \sqrt{\frac{n}{F_{\text{GHz}}} \left(\frac{d_1 d_2}{d_1 + d_2} \right)}$$



Where,

- r = Fresnel Zone radius at a specific point in the microwave path, meters
- n = Fresnel Zone number, 1
- F_{GHz} = Frequency of microwave system, GHz
- d_1 = Distance from antenna 1 to a specific point in the microwave path, kilometers
- d_2 = Distance from antenna 2 to a specific point in the microwave path, kilometers

³ See enclosed mw_geopl.shp (adjusted locations based on aerial photography/basis for report images and results) and mw_geopl_fcc.shp (locations solely based on FCC licensed information) for details.

In general, this is the area where the planned wind turbines should be avoided, if possible. Likewise, Comsearch recommends that an area directly in front of each microwave antenna should be avoided. This corresponds to the Consultation Zone which measures 1 kilometer along the main beam of the antenna and 24 ft (7.3 meters) wide. A depiction of the Fresnel Zones and Consultation Zones for each microwave path listed can be found in Figure 3 and Figure 4, and is also included in the enclosed shapefiles^{4,5}.

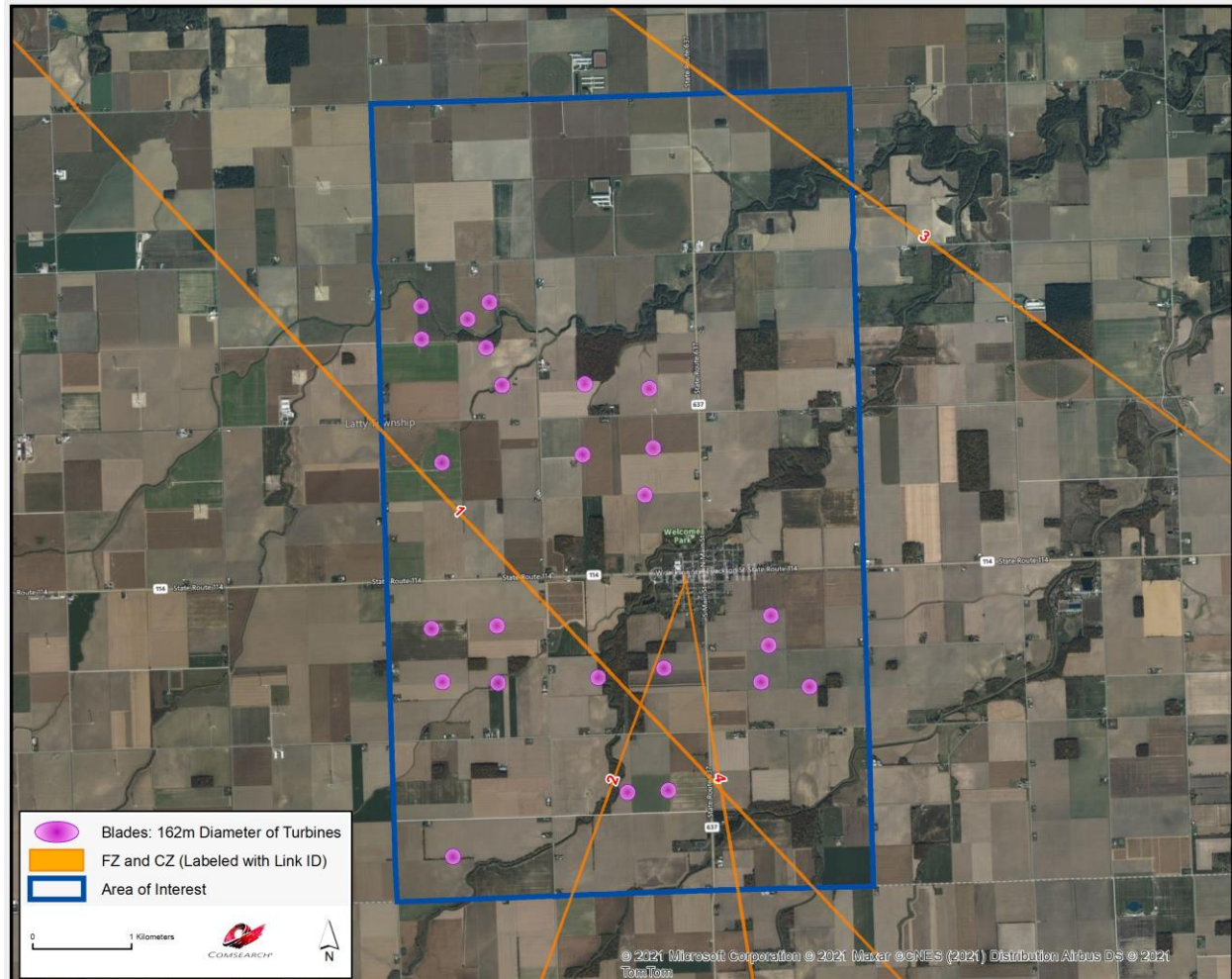
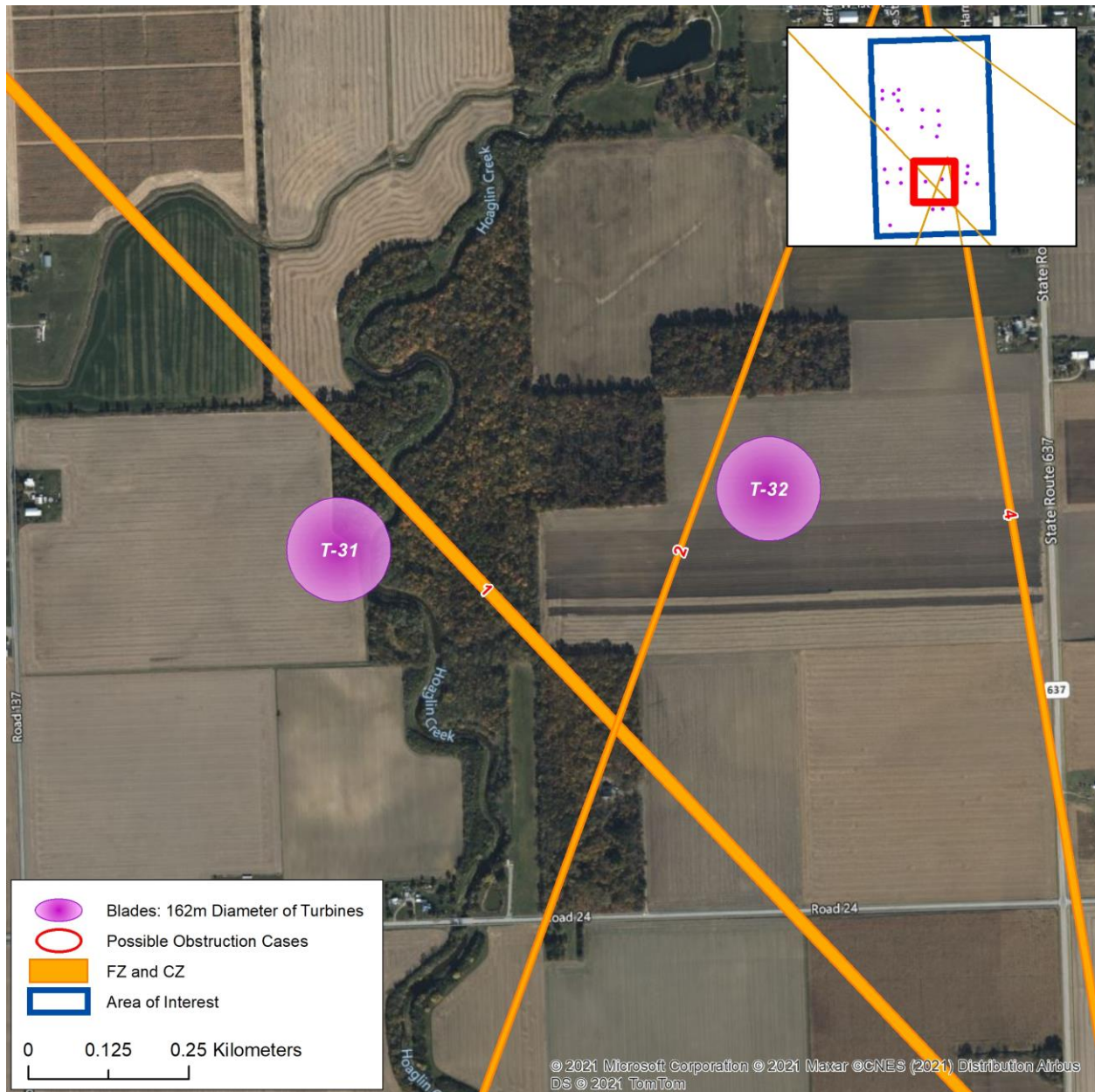


Figure 3: Microwave Paths with Fresnel Zones

⁴ The ESRI® shapefiles enclosed are in NAD 83 UTM Zone 16 projected coordinate system.

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*Figure 4: Microwave Paths with Fresnel Zones
(Turbine T-31 and Turbine T-32)*

4. Conclusion

Total Microwave Paths	Paths with Affected Fresnel Zones	Total Turbines	Turbines intersecting the Fresnel Zones
4	0	25	0

Table 2: Fresnel Zone Analysis Result

Our study identified four microwave paths intersecting the Grover Hill Wind Project area of interest. The Fresnel and Consultation Zones for these microwave paths were calculated and mapped in order to assess the potential impact from the turbines. A total of 25 turbines were considered in the analysis, each with a blade diameter of 162 meters and a hub height of 119 meters. Of those turbines, none were found to have potential obstruction with the microwave systems in the area.

5. Contact

For questions or information regarding the Microwave Study, please contact:

Contact person: David Meyer
Title: Senior Manager
Company: Comsearch
Address: 19700 Janelia Farm Blvd., Ashburn, VA 20147
Telephone: 703-726-5656
Fax: 703-726-5595
Email: dmeyer@comsearch.com
Web site: www.comsearch.com

Appendix: Turbine Locations

Name	Latitude (NAD83)	Longitude (NAD83)
T-11	41.044212	-84.509804
T-12	41.042912	-84.504206
T-13	41.040265	-84.502095
T-14	41.036783	-84.500293
T-15	41.036692	-84.490299
T-16	41.036108	-84.482528
T-17	41.029887	-84.507798
T-25	41.026412	-84.483435
T-26	41.030665	-84.482262
T-27	41.014762	-84.509631
T-28	41.014858	-84.501729
T-29	41.009885	-84.508492
T-30	41.009638	-84.501798
T-31	41.009866	-84.489698
T-32	41.010544	-84.481718
T-33	41.015068	-84.468639
T-34	41.012357	-84.469008
T-35	41.009044	-84.470044
T-36	41.008481	-84.464213
T-37	40.993914	-84.507832
T-38	40.999315	-84.486547
T-39	41.044396	-84.501523
T-40	41.041199	-84.509852
T-41	41.030238	-84.490794
T-43	40.999378	-84.481623

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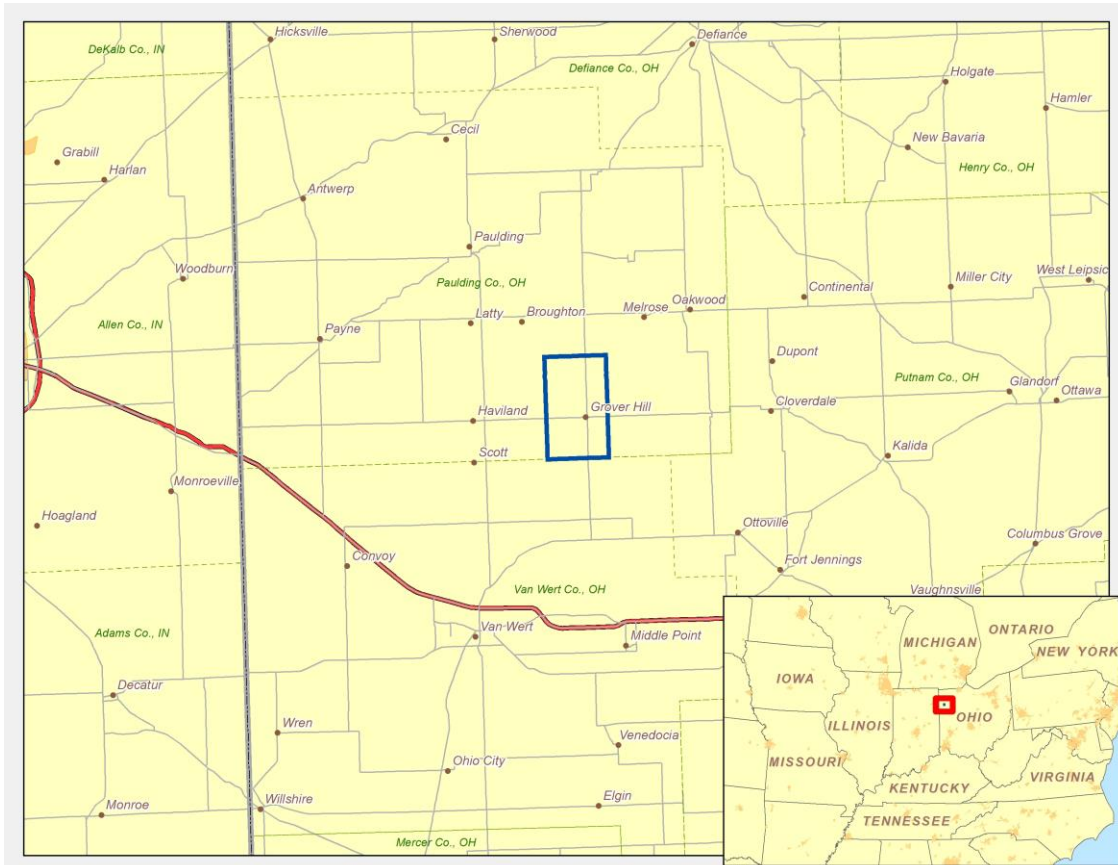


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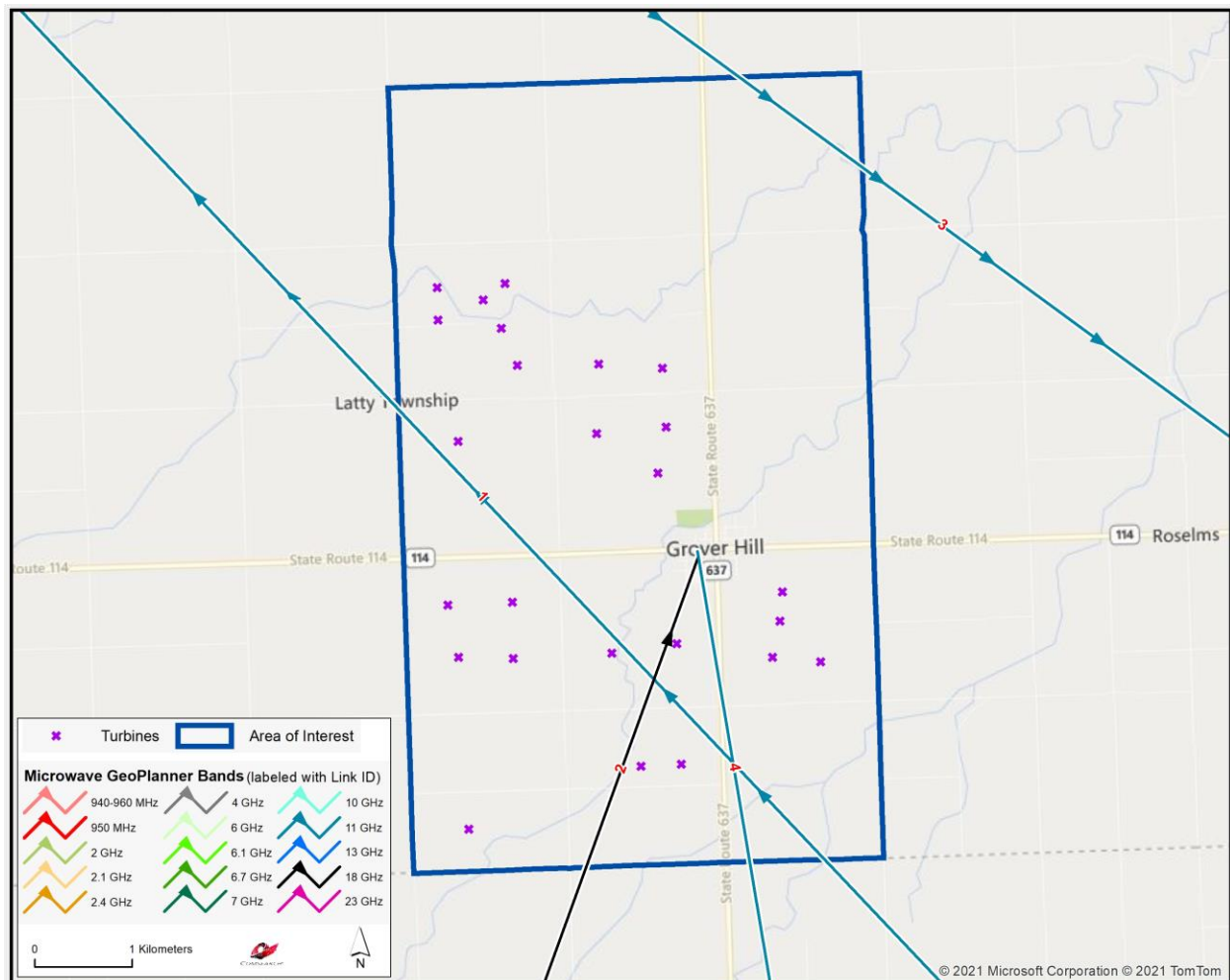


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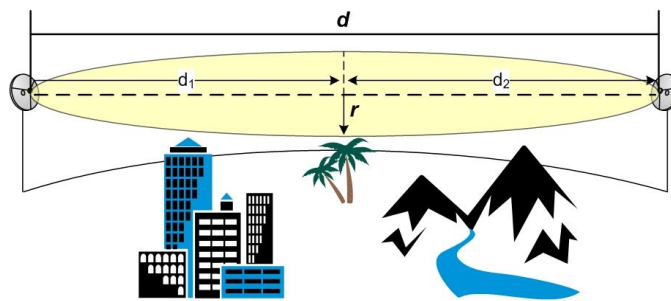
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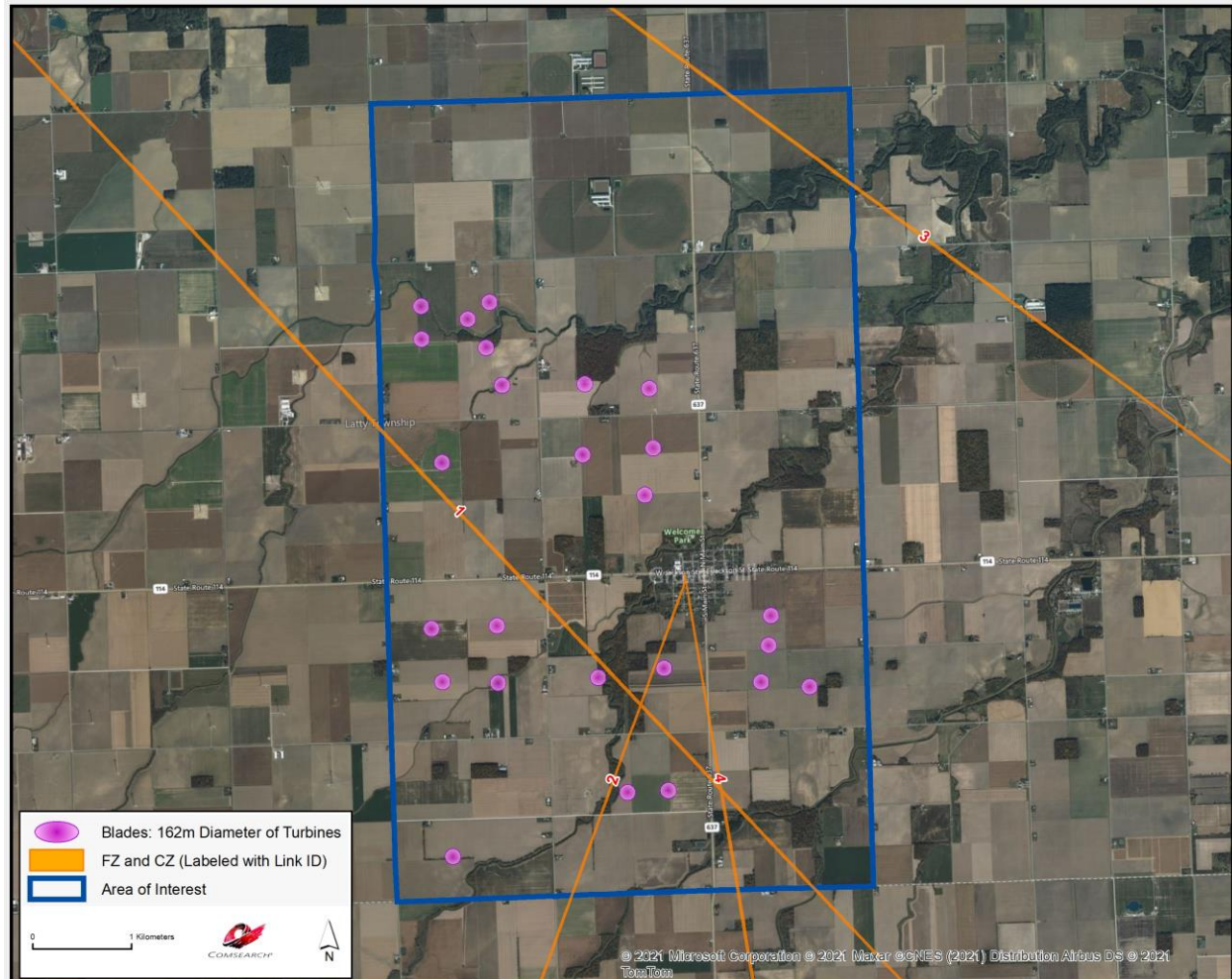
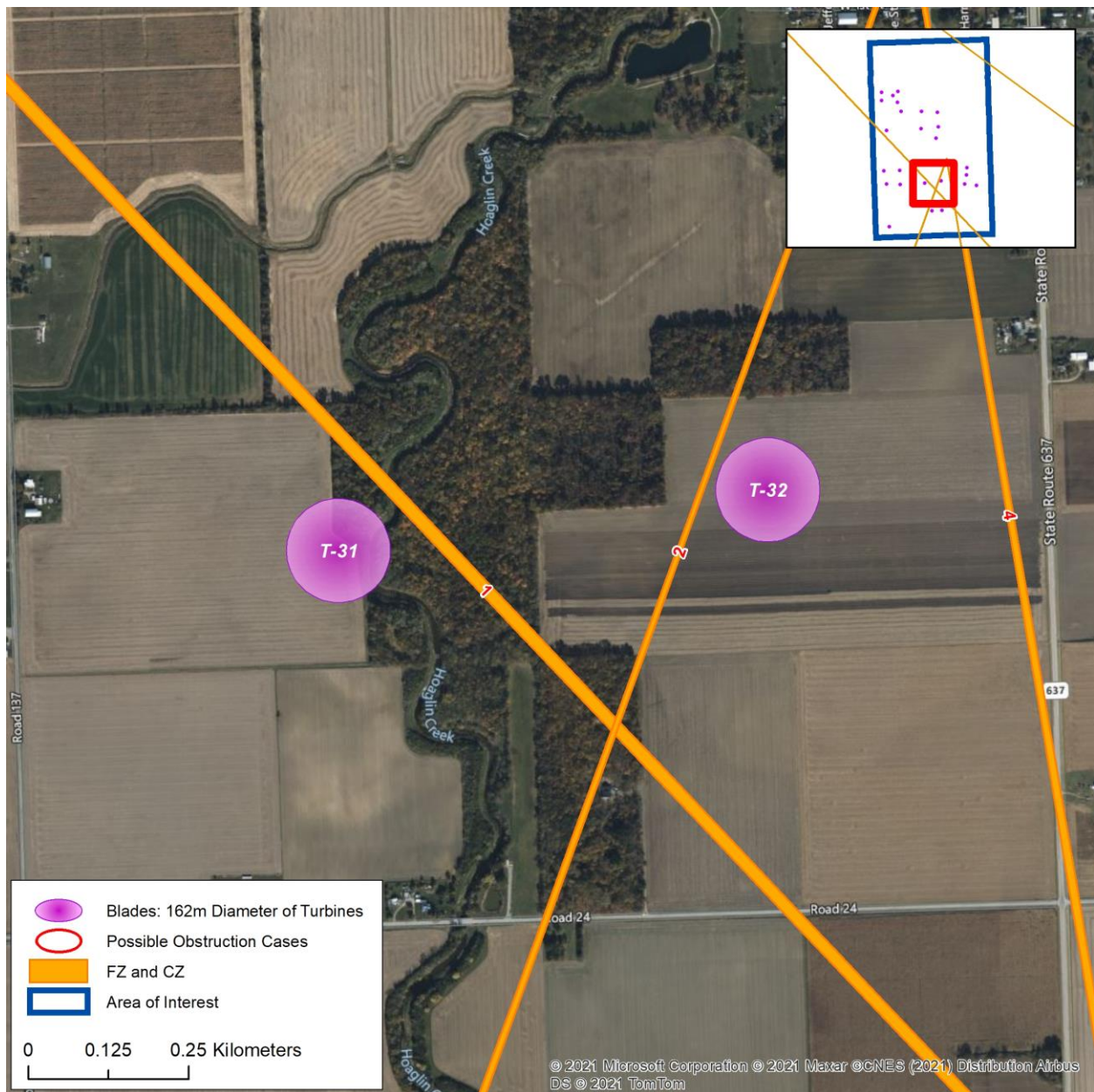


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T-30	41.009638	-84.501798
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T-33	41.015068	-84.468639
T-34	41.012357	-84.469008
T-35	41.009044	-84.470044
T-36	41.008481	-84.464213
T-37	40.993914	-84.507832
T-38	40.999315	-84.486547
T-39	41.044396	-84.501523
T-40	41.041199	-84.509852
T-41	41.030238	-84.490794
T-43	40.999378	-84.481623



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GeoPlanner Microwave Data Field Descriptions

Column Name	Description
GEO_ID	UNIQUE GEOGRAPHIC IDENTIFIER
ID	IDENTIFIER
SERVICE	SERVICE
SEQ_NO	SEQUENCE NUMBER
BAND_NO	BAND NUMBER
BAND	BAND
BAND_NAME	BAND DESCRIPTION
STATUS_1	STATUS SITE 1
STATUS_2	STATUS SITE 2
SITE_1	NAME SITE 1
SITE_2	NAME SITE 2
CALL_1	CALLSIGN SITE 1
CALL_2	CALLSIGN SITE 2
ASR_1	FCC ASR NUMBER SITE1
ASR_2	FCC ASR NUMBER SITE1
LAT_1	LATITUDE DECIMAL DEGREES SITE 1
LON_1	LONGITUDE DECIMAL DEGREES SITE 1
LAT_2	LATITUDE DECIMAL DEGREES SITE 2
LON_2	LONGITUDE DECIMAL DEGREES SITE 2
STATE_1	STATE SITE 1
STATE_2	STATE SITE 2
GND_ELEV_1	GROUND ELEVATION SITE 1 (meters) AMSL
GND_ELEV_2	GROUND ELEVATION SITE 2 (meters) AMSL
BEAR_1_2	PATH AZIMUTH FROM SITE 1 TO SITE 2 (degrees)
BEAR_2_1	PATH AZIMUTH FROM SITE 2 TO SITE 1 (degrees)
DIST_KM	PATH DISTANCE (kilometers)
TACL_1	ANTENNA CENTERLINE SITE 1 (meters) AGL
TACL_2	ANTENNA CENTERLINE SITE 2 (meters) AGL
RTACL_1	RECEIVE ANTENNA CENTERLINE SITE 1
RTACL_2	RECEIVE ANTENNA CENTERLINE SITE 2
DTACL_1	DIVERSITY ANTENNA CENTERLINE SITE 1
DTACL_2	DIVERSITY ANTENNA CENTERLINE SITE 2
COMPANY_1	COMPANY SITE 1
CONTACT_1	CONTACT SITE 1
STREET_1	STREET SITE 1
CITY_1	CITY SITE 1
ST_1	STATE SITE 1
ZIP_1	ZIP CODE SITE 1
ZIP_EX_1	ZIP CODE EXTENSION SITE 1
PHONE_AC_1	AREA CODE SITE 1
PHONE_1	PHONE SITE 1
PHONE_EX_1	PHONE EXTENSION SITE 1
FAX_AC_1	FACSIMILE AREA CODE SITE 1
FAX_1	FACSIMILE SITE 1
EMAIL_1	EMAIL ADDRESS SITE1
COMPANY_2	COMPANY SITE 2
CONTACT_2	CONTACT SITE 2
STREET_2	STREET SITE 2
CITY_2	CITY SITE 2
ST_2	STATE SITE 2
ZIP_2	ZIP CODE SITE 2

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Column Name	Description
ZIP_EX_2	ZIP CODE EXTENSION SITE 2
PHONE_AC_2	AREA CODE SITE 2
PHONE_2	PHONE SITE 2
PHONE_EX_2	PHONE EXTENSION SITE 2
FAX_AC_2	FACSIMILE AREA CODE SITE 2
FAX_2	FACSIMILE SITE 2
EMAIL_2	EMAIL ADDRESS SITE2

ID	geo_id	service	seq_no	band_no	band	band_name	status_1	status_2	site_1	site_2	call_1	call_2	asr_1	asr_2
1	CC-365384	CC	365384	11	11 GHz	11 GHz	LP	LP	DE03HO048	CH03HO034	WQRX775	WQRY695	1211350	1219841
2	CC-485052	CC	485052	18	18 GHz	18 GHz	LN	LN	HOAGLIN	GROVER HILL	WQTX715	WQZW695	1013766	
3	CC-465543	CC	465543	11	11 GHz	11 GHz	LN	LN	PPEC HQ	ROSELM SUB	WQYJ953	WQYI235		
4	CC-548228	CC	548228	11	11 GHz	11 GHz	LN	LN	MIDDLE POINT	GROVER HILL	WRJL891	WRJL894		

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41.13297222220	-84.59133333330	41.01988888890	-84.39919444440	OH	OH	221.30	220.20	127.81
40.85875000000	-84.44955555560	41.01905555560	-84.47888888890	OH	OH	238.00	222.00	352.11

bear_2_1	dist_km	tacl_1	tacl_2	racl_1	racl_2	dac1_1	dac1_2	
	138.15	15.85	76.20	76.81	0.00	0.00	0.00	0.00
	201.54	8.28	42.67	42.67	0.00	0.00	0.00	0.00
	307.94	20.46	56.40	30.50	0.00	0.00	0.00	0.00
	172.09	17.97	23.00	38.00	0.00	0.00	0.00	0.00

company_1	contact_1	street_1	city_1	st_1	zip_1	zip_ex_1	phone_ac_1	phone_1	phone_ex_1	fax_ac_1
Sprint Spectrum L.P.	Garrie Losee	12502 Sunrise Valley Drive	Reston	VA	20196		703	5927914	0	703
MetaLINK Technologies, Inc.	Todd Harpest	417 Wayne Avenue, Suite 103	Defiance	OH	43512		419	9900310	0	419
Paulding-Putnam Electric Cooperative	Alan Kohart	401 McDonald Pike	Paulding	OH	45879	9270	419	3995015	0	419
Wabash Communications, Inc	Liz Creekmore	111 Fuller Road	Hinsdale	IL	60521		312	8419188	0	0

fax_1	company_2	contact_2	street_2	city_2	st_2	zip_2	zip_ex_2	phone_ac_2	phone_2
4334035	Sprintcom, Inc	Garrie Losee	12502 Sunrise Valley Drive	Reston	VA	20196		703	5927914
7822854	MetaLINK Technologies, Inc.	Todd Harpest	417 Wayne Avenue, Suite 103	Defiance	OH	43512		419	9900310
3993026	Paulding-Putnam Electric Cooperative	Alan Kohart	401 McDonald Pike	Paulding	OH	45879	9270	419	3995015
	0 Wabash Communications, Inc	Liz Creekmore	111 Fuller Road	Hinsdale	IL	60521		312	8419188

phone_ex_2	fax_ac_2	fax_2
0	703	4334035
0	419	7822854
0	419	3993026
0	0	0

Exhibit X

NTIA

Date: March 4, 2021

Type of Notification: New

Project: Grover Hill Wind Project

County: Paulding

State: OH

Project Sponsor: Westwood Professional Services, Inc.– Frank O'Brien
<fobrien@comsearch.com>

Turbine Description:

Number of Turbines: 25
Turbine Hub Height AGL (meters): 119
Turbine Blade Diameter (meters): 162
Maximum Blade Tip Height AGL (meters): 200

Turbine Locations:

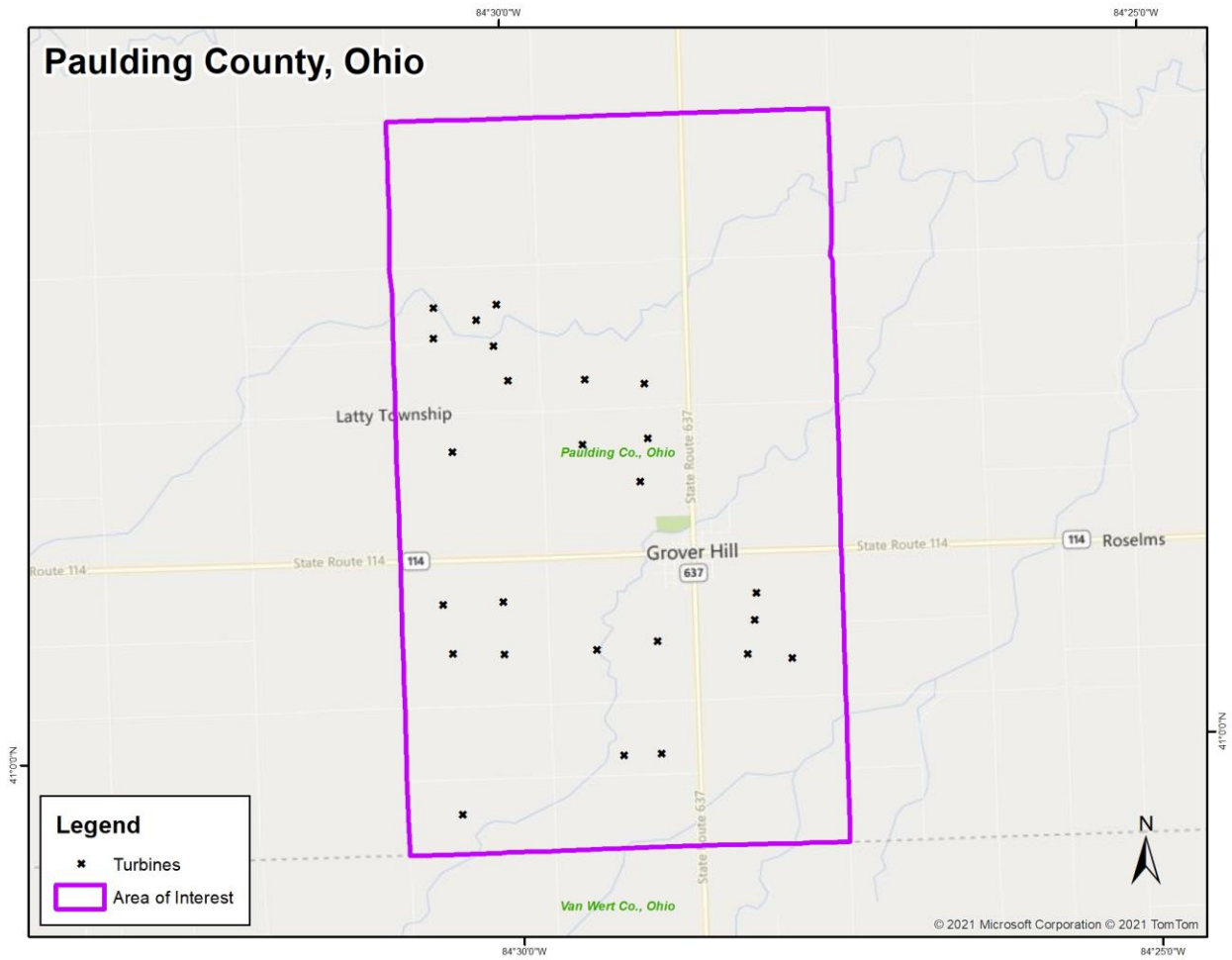
ID	Latitude	Longitude
T-11	41.044212	-84.509804
T-12	41.042912	-84.504206
T-13	41.040265	-84.502095
T-14	41.036783	-84.500293
T-15	41.036692	-84.490299
T-16	41.036108	-84.482528
T-17	41.029887	-84.507798
T-25	41.026412	-84.483435
T-26	41.030665	-84.482262
T-27	41.014762	-84.509631
T-28	41.014858	-84.501729
T-29	41.009885	-84.508492
T-30	41.009638	-84.501798
T-31	41.009866	-84.489698
T-32	41.010544	-84.481718
T-33	41.015068	-84.468639
T-34	41.012357	-84.469008
T-35	41.009044	-84.470044
T-36	41.008481	-84.464213
T-37	40.993914	-84.507832
T-38	40.999315	-84.486547
T-39	41.044396	-84.501523
T-40	41.041199	-84.509852
T-41	41.030238	-84.490794
T-43	40.999378	-84.481623

Wind Farm Boundary Points:

Identifier	Latitude	Longitude
Pt1	41:03:47.597	084:30:55.287
Pt2	41:03:47.597	084:27:24.911
Pt3	40:59:23.524	084:27:24.911
Pt4	40:59:23.524	084:30:55.287

Maps:





This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 20-0417-EL-BGN

Summary: Application - 30 of 40 (Exhibit W - Microwave Study and Exhibit X – NTIA)
electronically filed by Christine M.T. Pirik on behalf of Grover Hill Wind, LLC