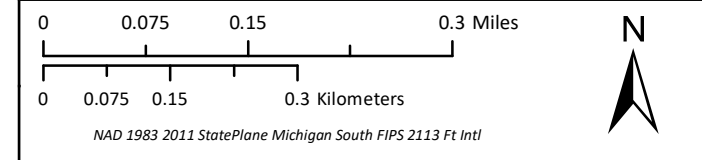
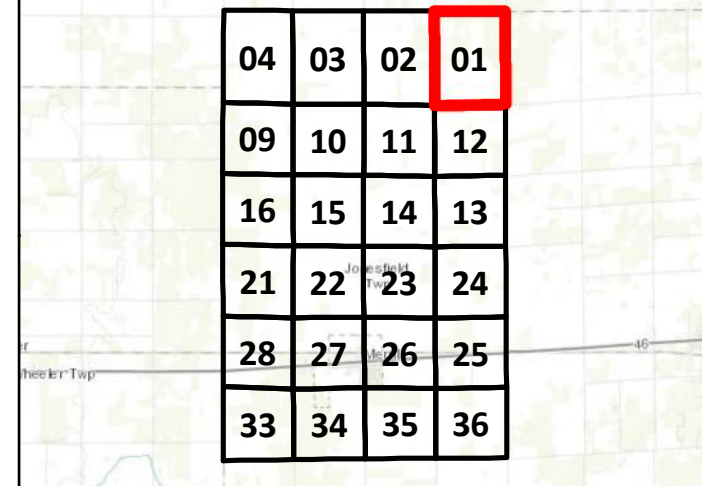


**Meridian Wind Park**  
**Jonesfield Township S01**  
**Shadow Flicker Study**  
 Cumulative Shadow Flicker Contours  
 Saginaw County, Michigan  
 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

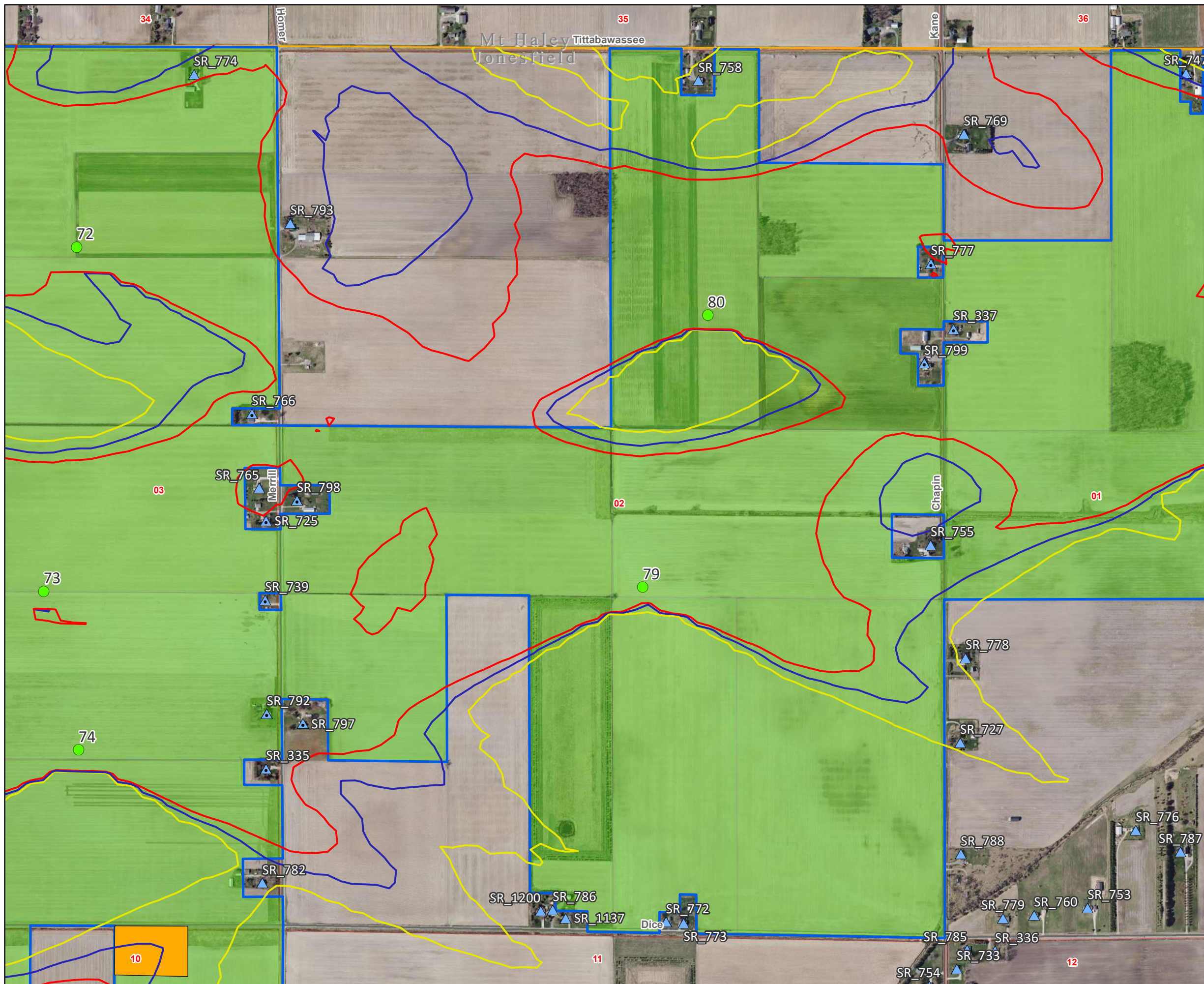


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

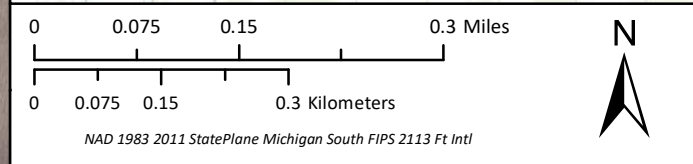
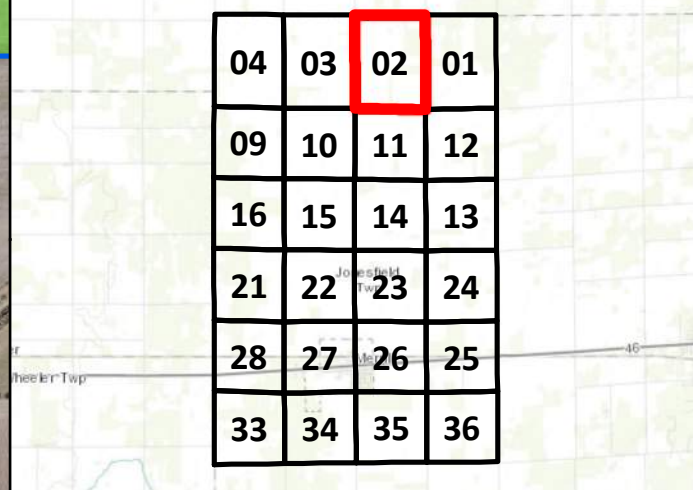


**Meridian Wind Park**  
**Jonesfield Township S02**  
**Shadow Flicker Study**  
 Cumulative Shadow Flicker Contours  
 Saginaw County, Michigan  
 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary



Turbine Layout r23





# Meridian Wind Park Jonesfield Township S03

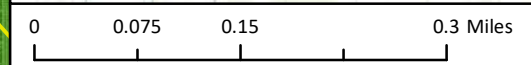
## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

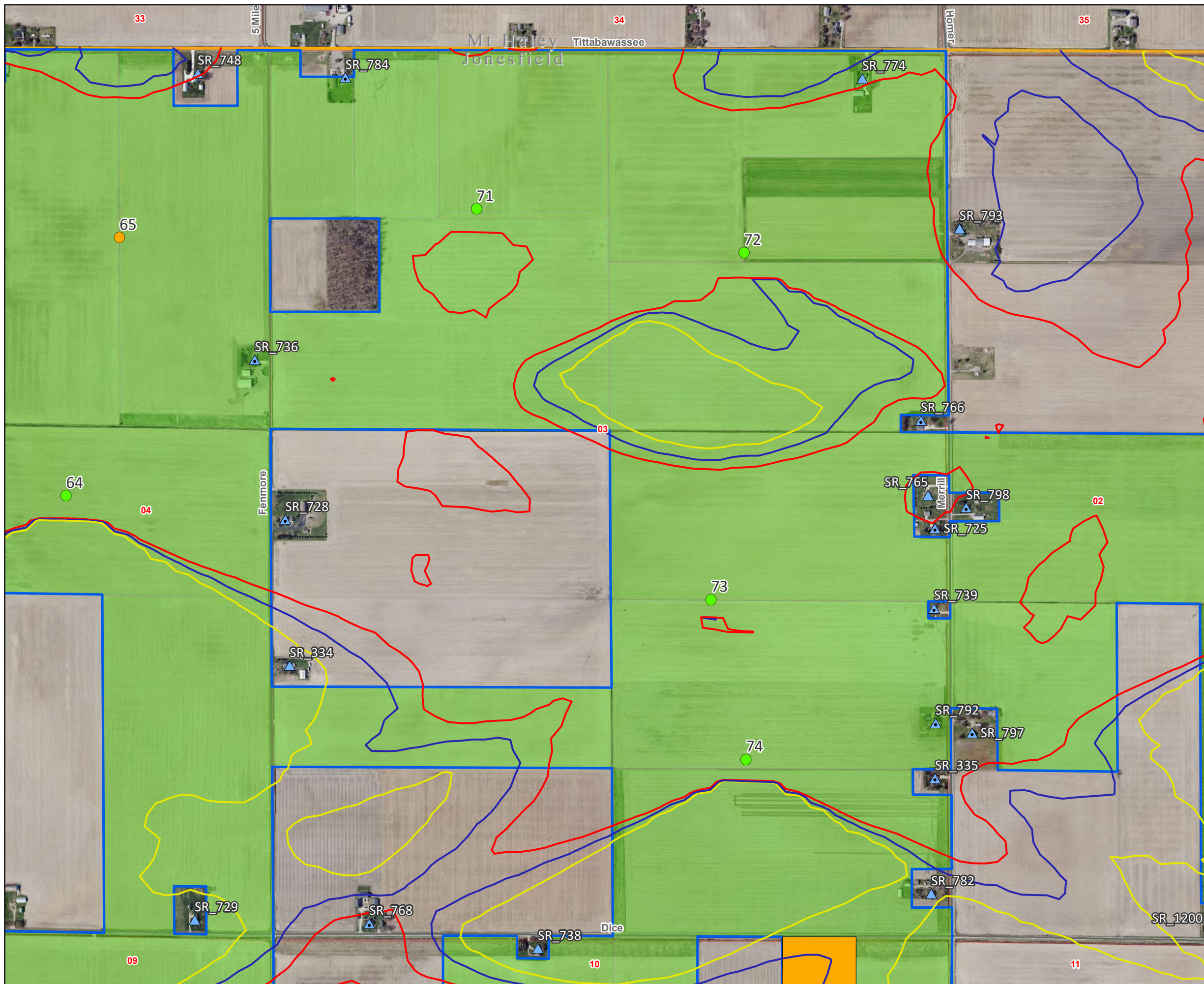
- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36



NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

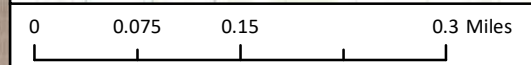


# Meridian Wind Park Jonesfield Township S04 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

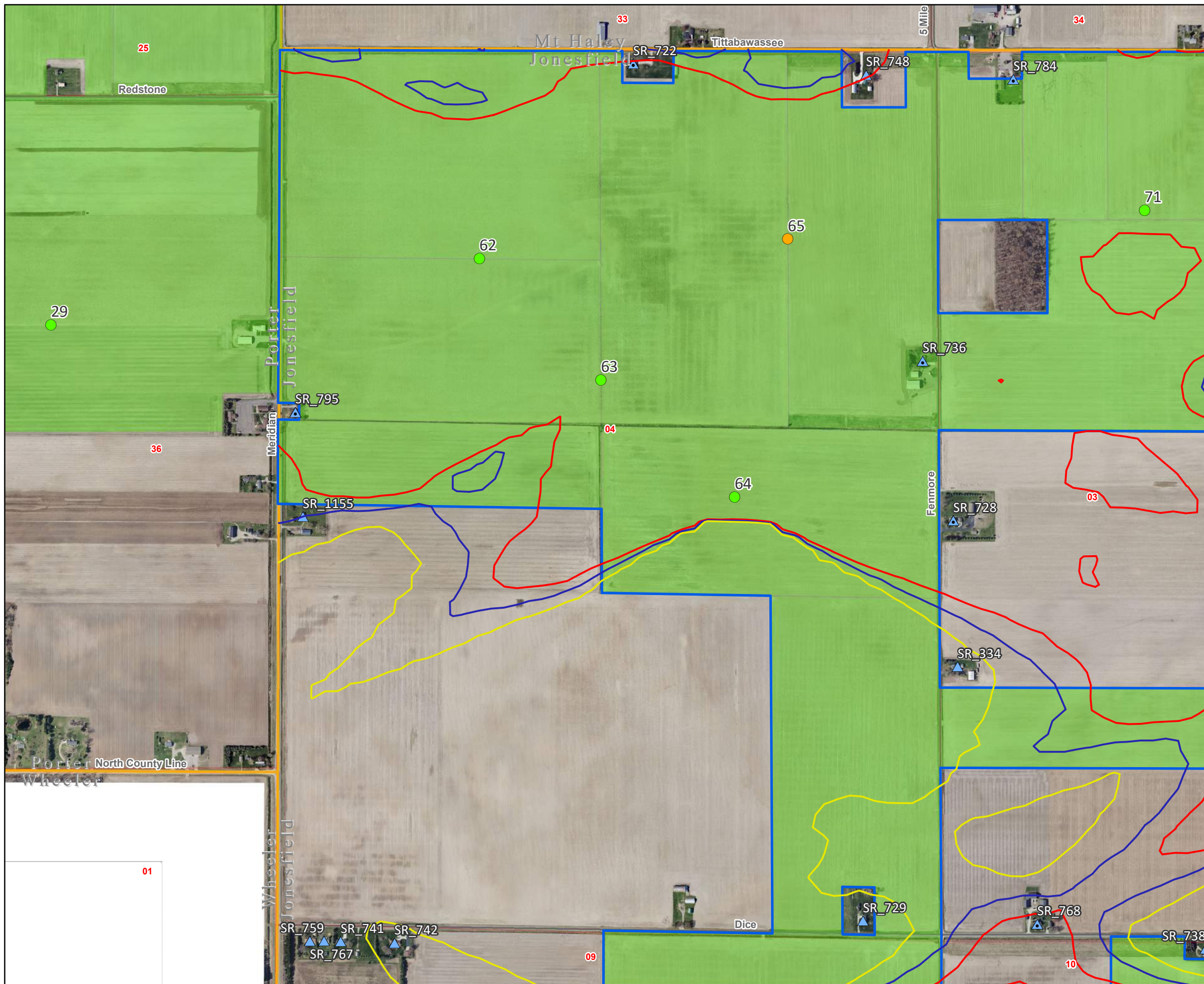
- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36



NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl



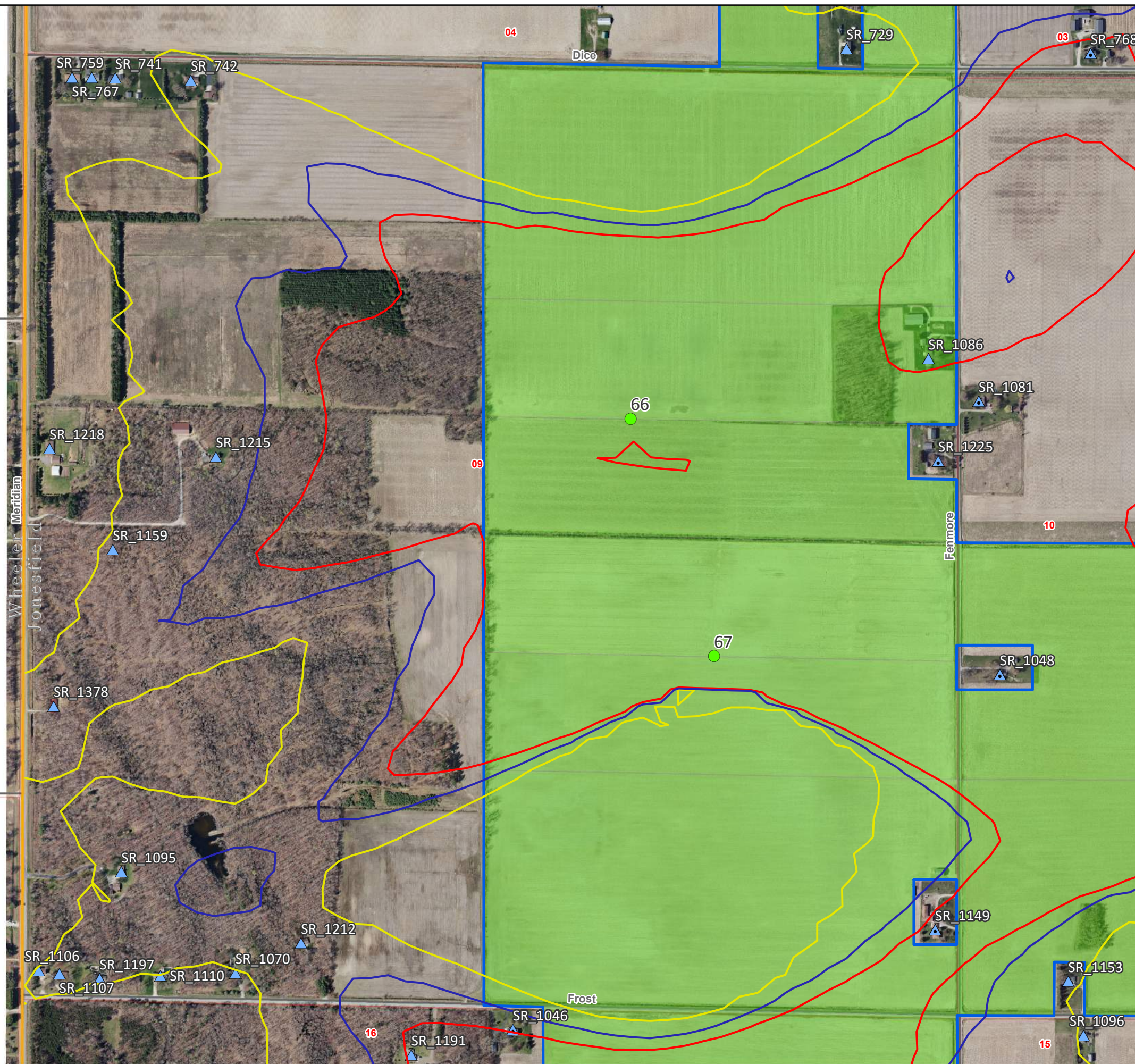
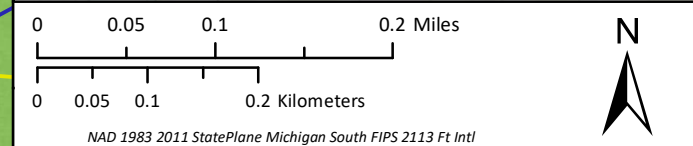
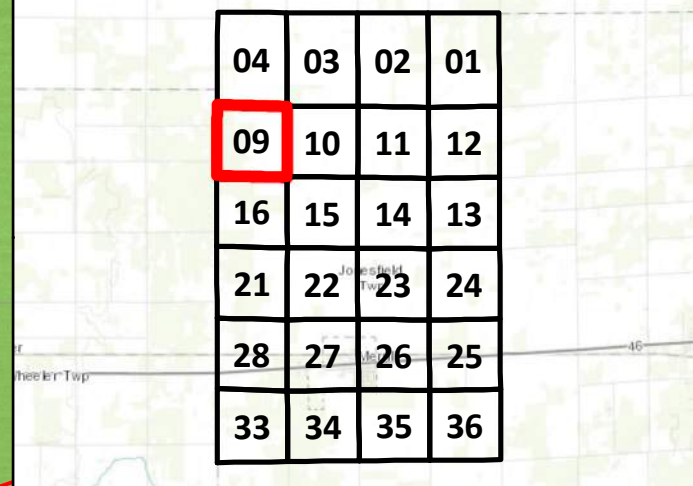
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



# Meridian Wind Park Jonesfield Township S09 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23



Parks

01

Adams

12



# Meridian Wind Park Jonesfield Township S10 Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

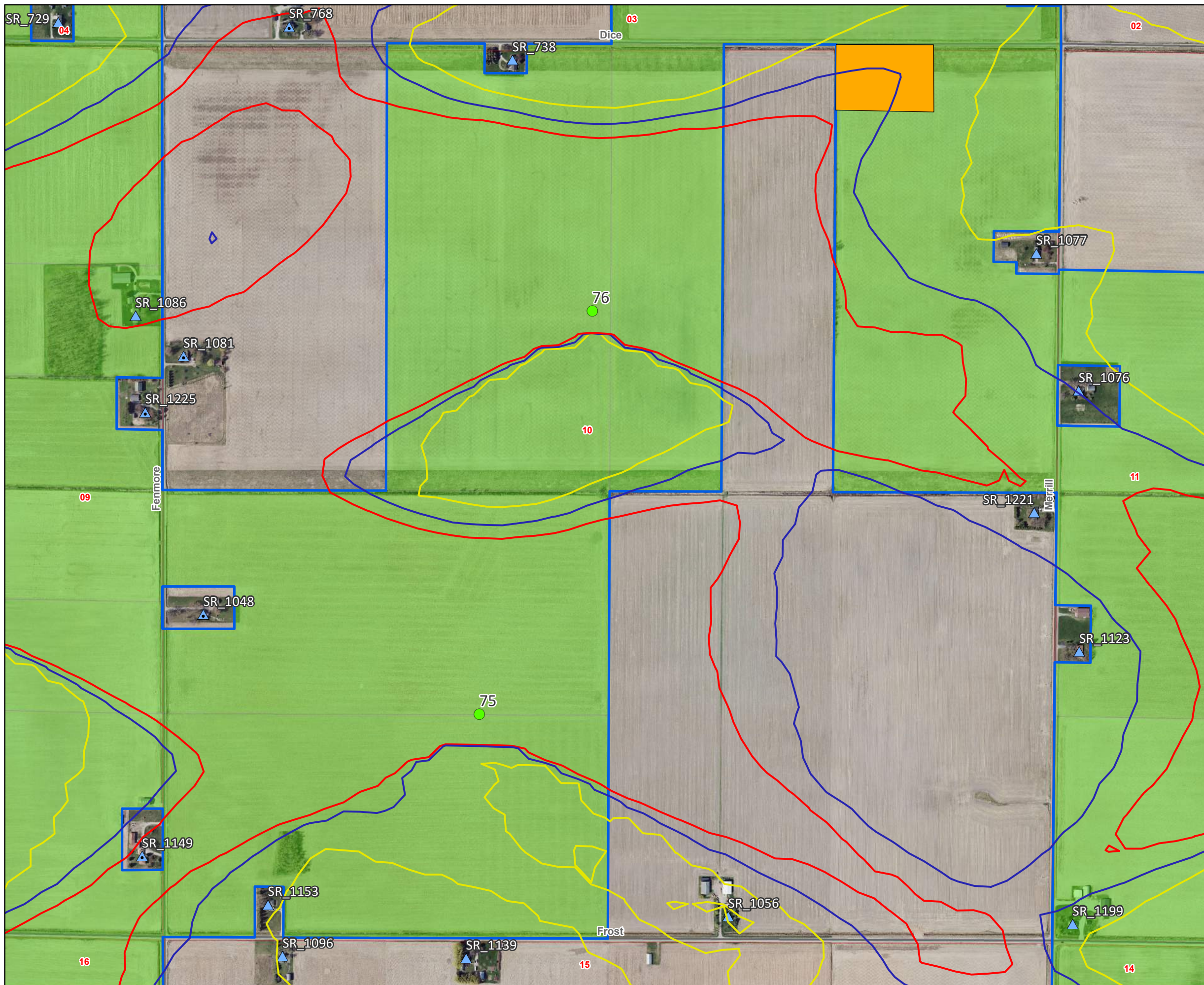
Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36

0 0.05 0.1 0.2 Miles

0 0.05 0.1 0.2 Kilometers

NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl





# Meridian Wind Park Jonesfield Township S11

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

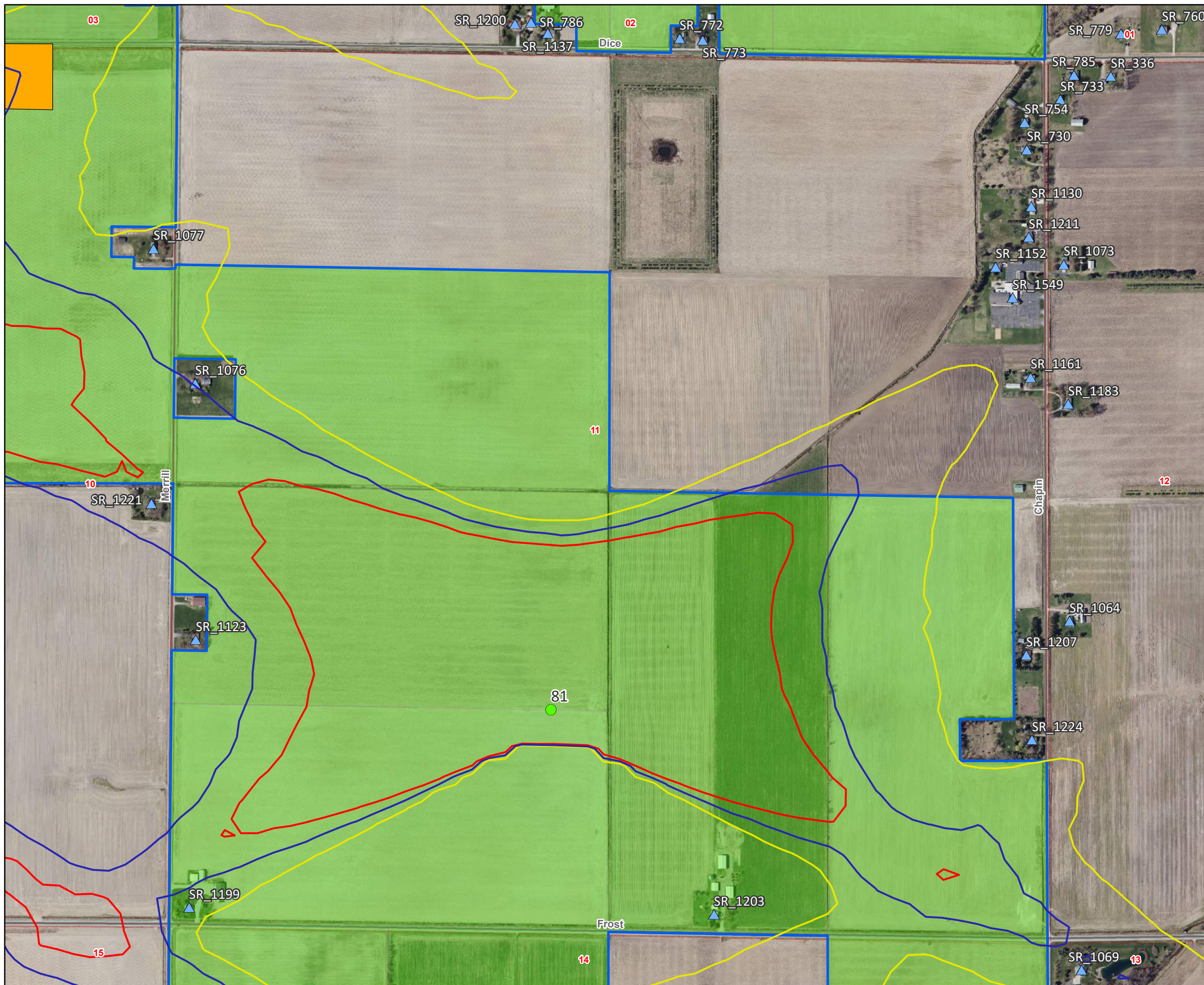
Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36

0 0.05 0.1 0.2 Miles

0 0.05 0.1 0.2 Kilometers

NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl





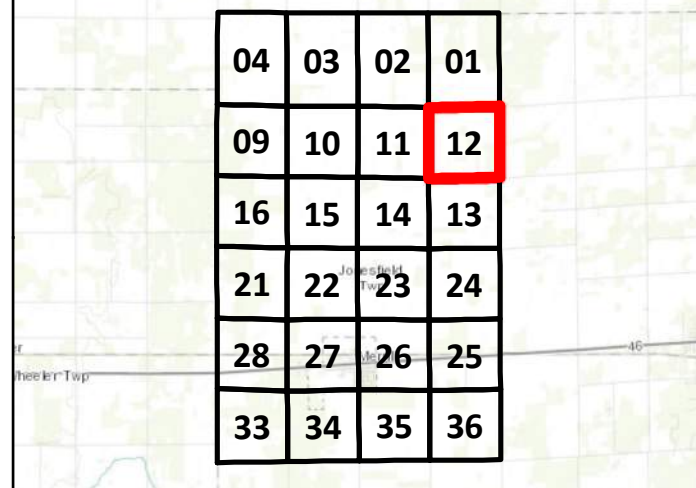
# Meridian Wind Park Jonesfield Township S12

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23



0 0.05 0.1 0.2 Miles

0 0.05 0.1 0.2 Kilometers

NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl







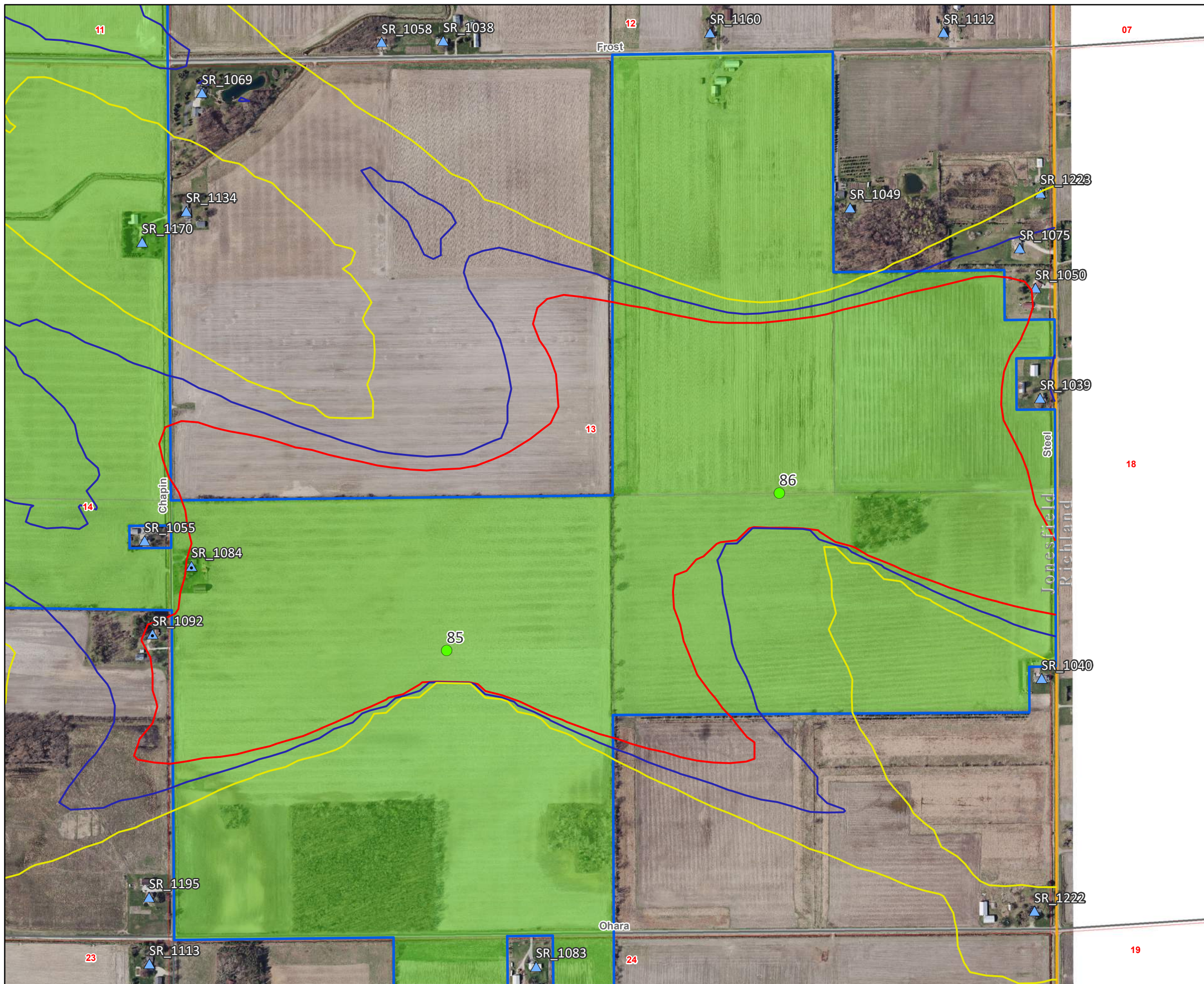
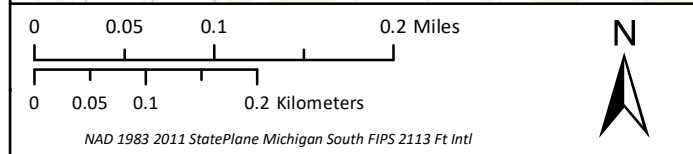
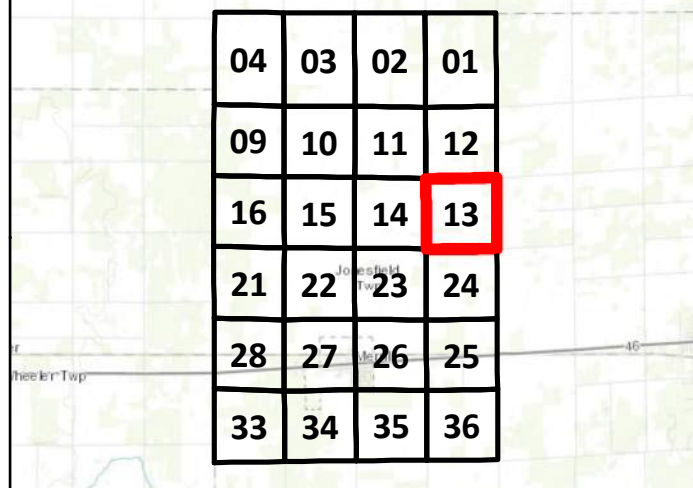
# Meridian Wind Park Jonesfield Township S13

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

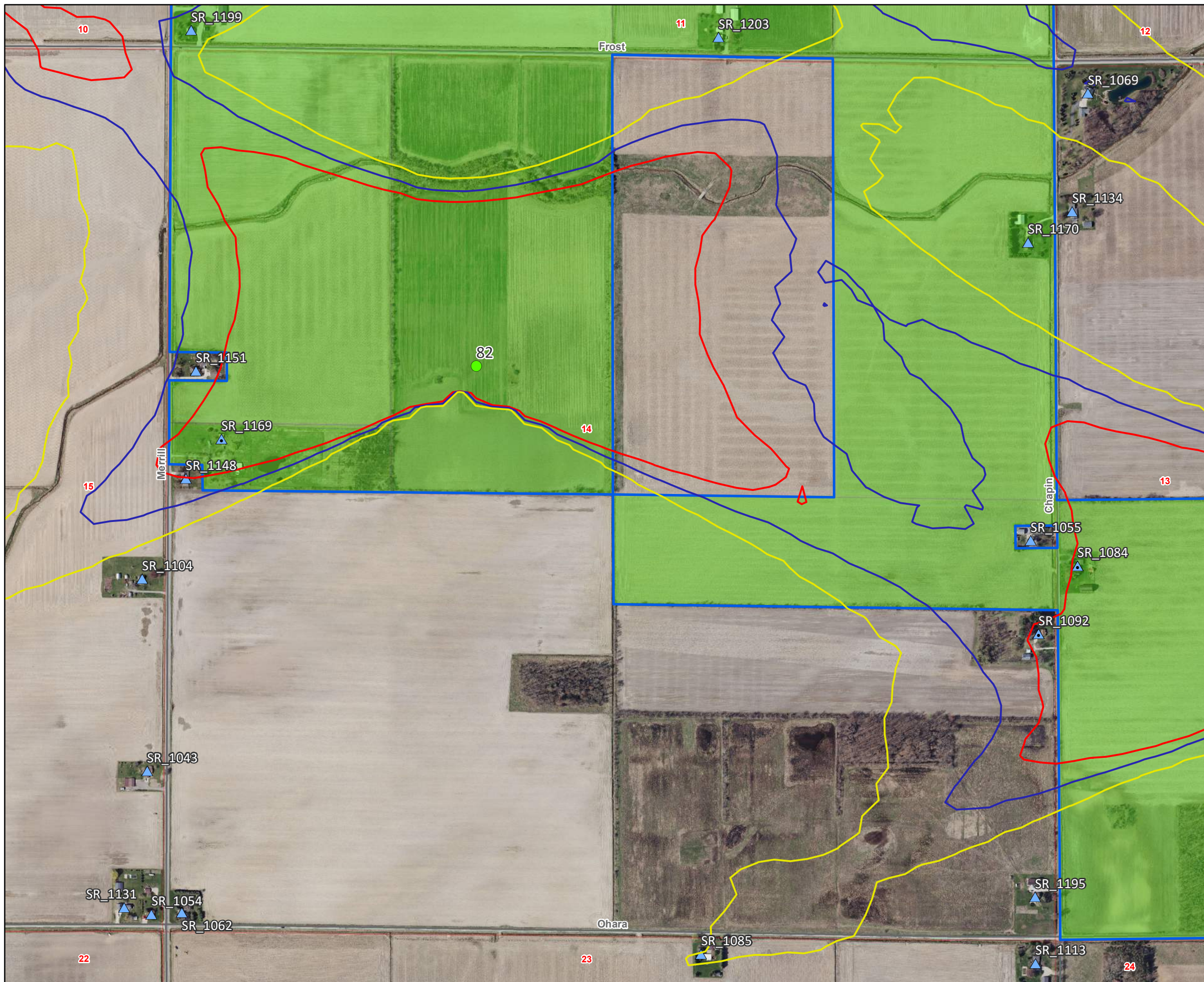
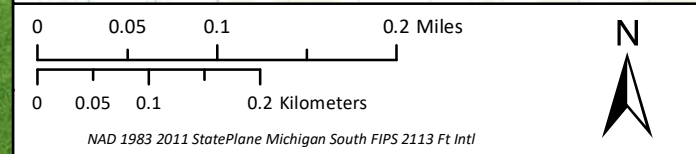
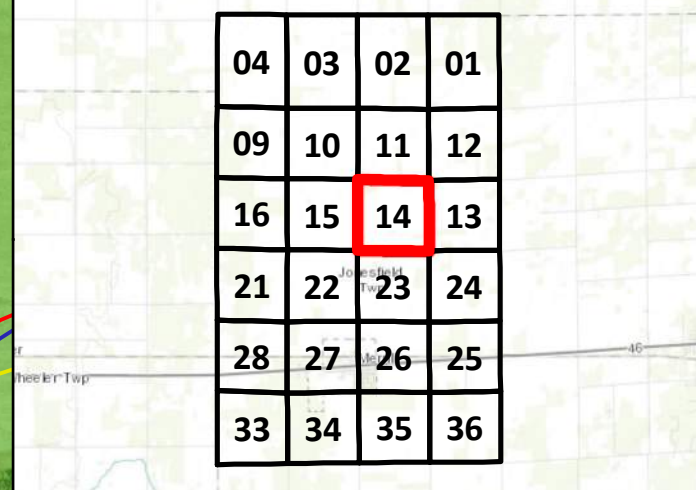




# Meridian Wind Park Jonesfield Township S14 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23





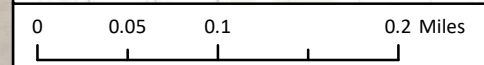
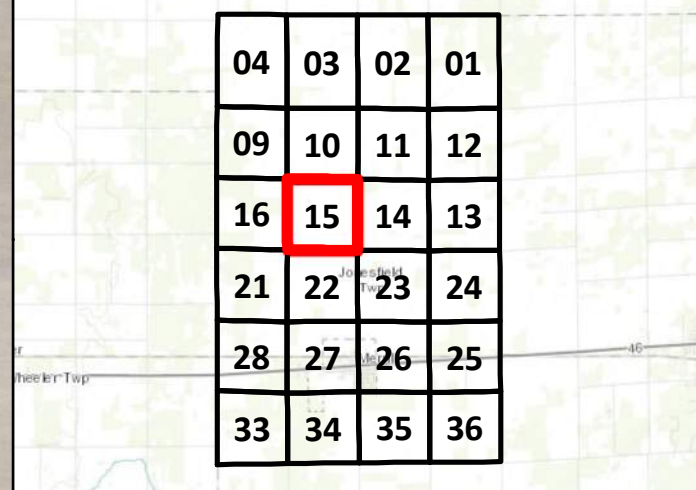
# Meridian Wind Park Jonesfield Township S15

## Shadow Flicker Study

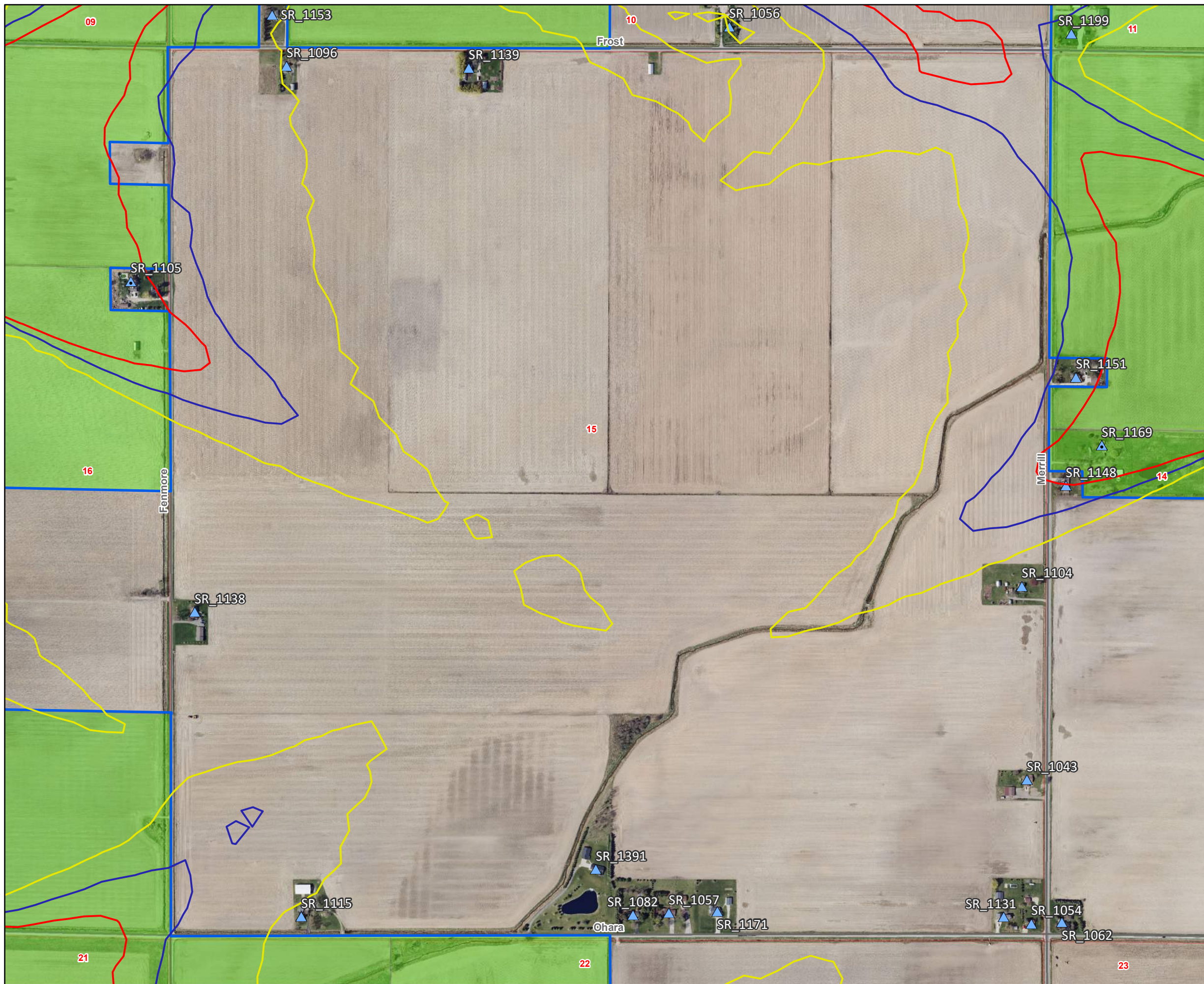
Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23



NAD 1983 2011 StatePlane Michigan South FIPS 2113 Ft Intl



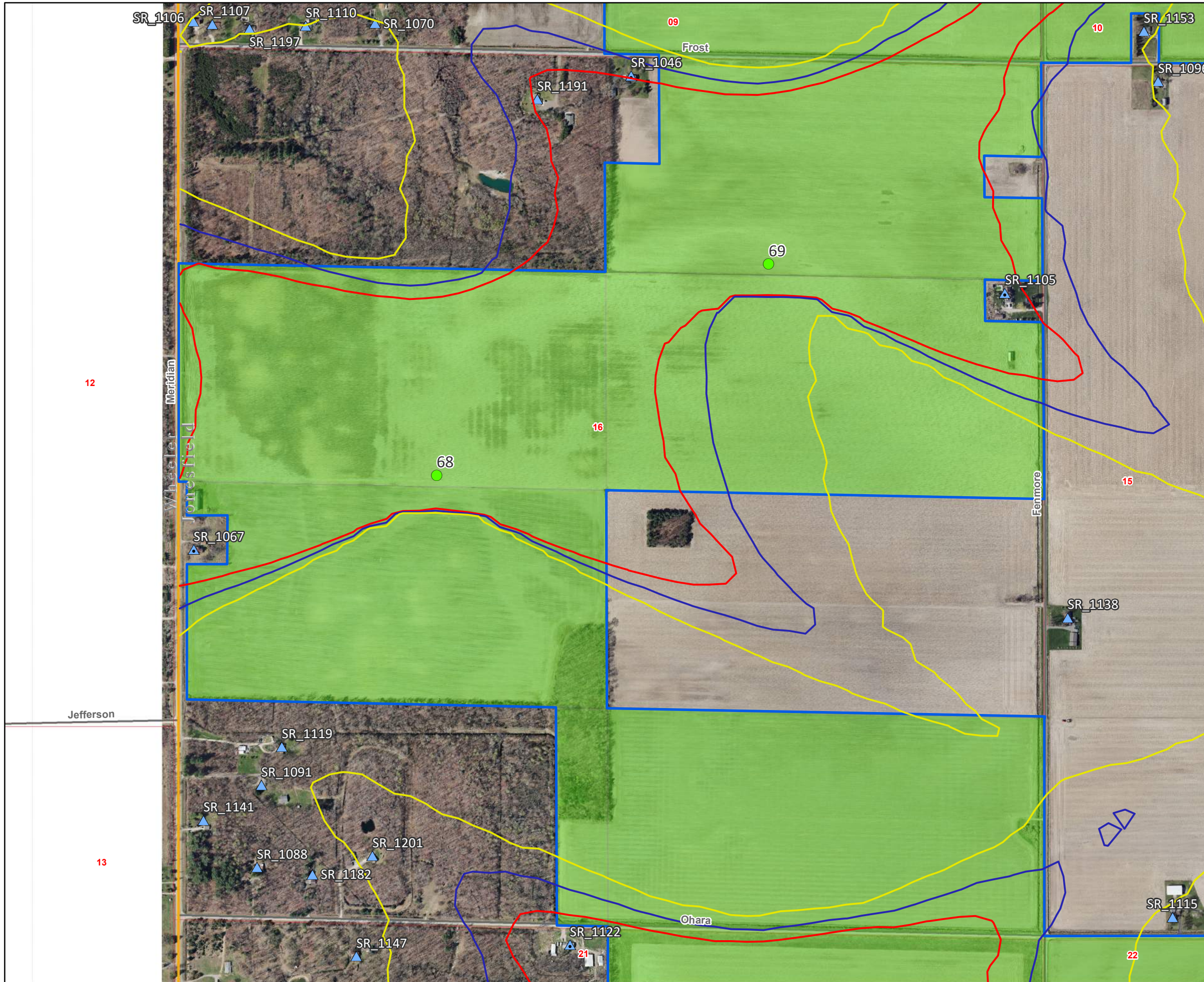
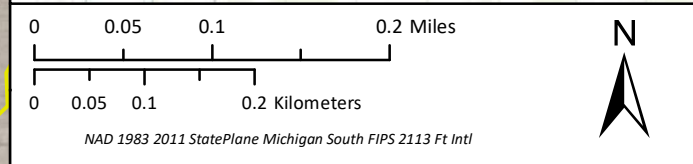
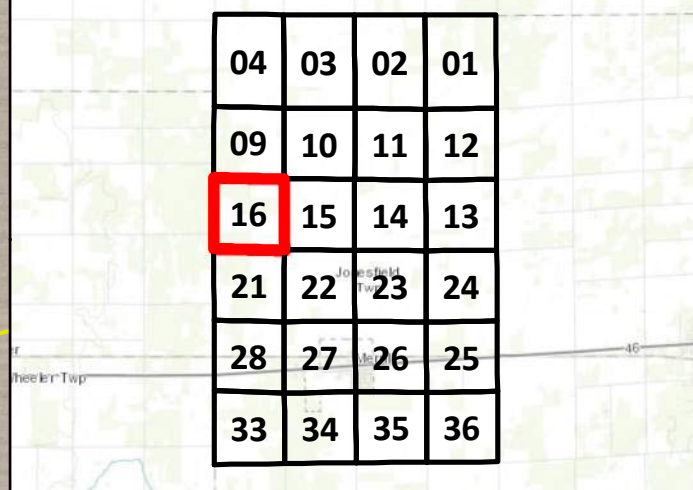
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



# Meridian Wind Park Jonesfield Township S16 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23



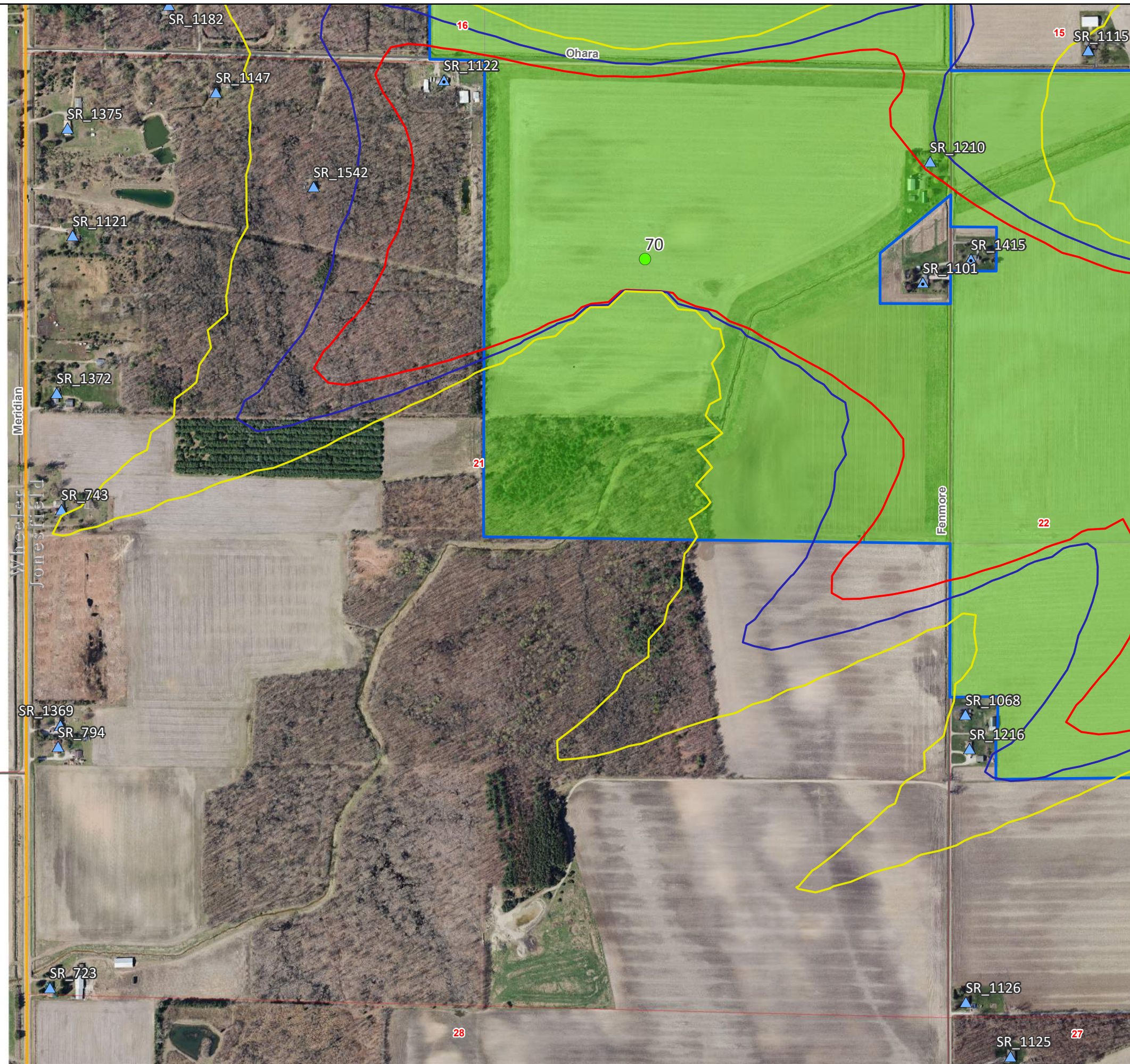
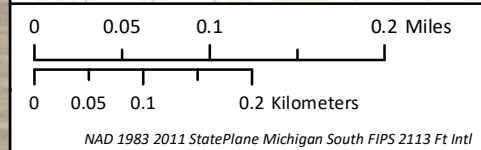
## Meridian Wind Park Jonesfield Township S21

**Shadow Flicker Study**  
Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36

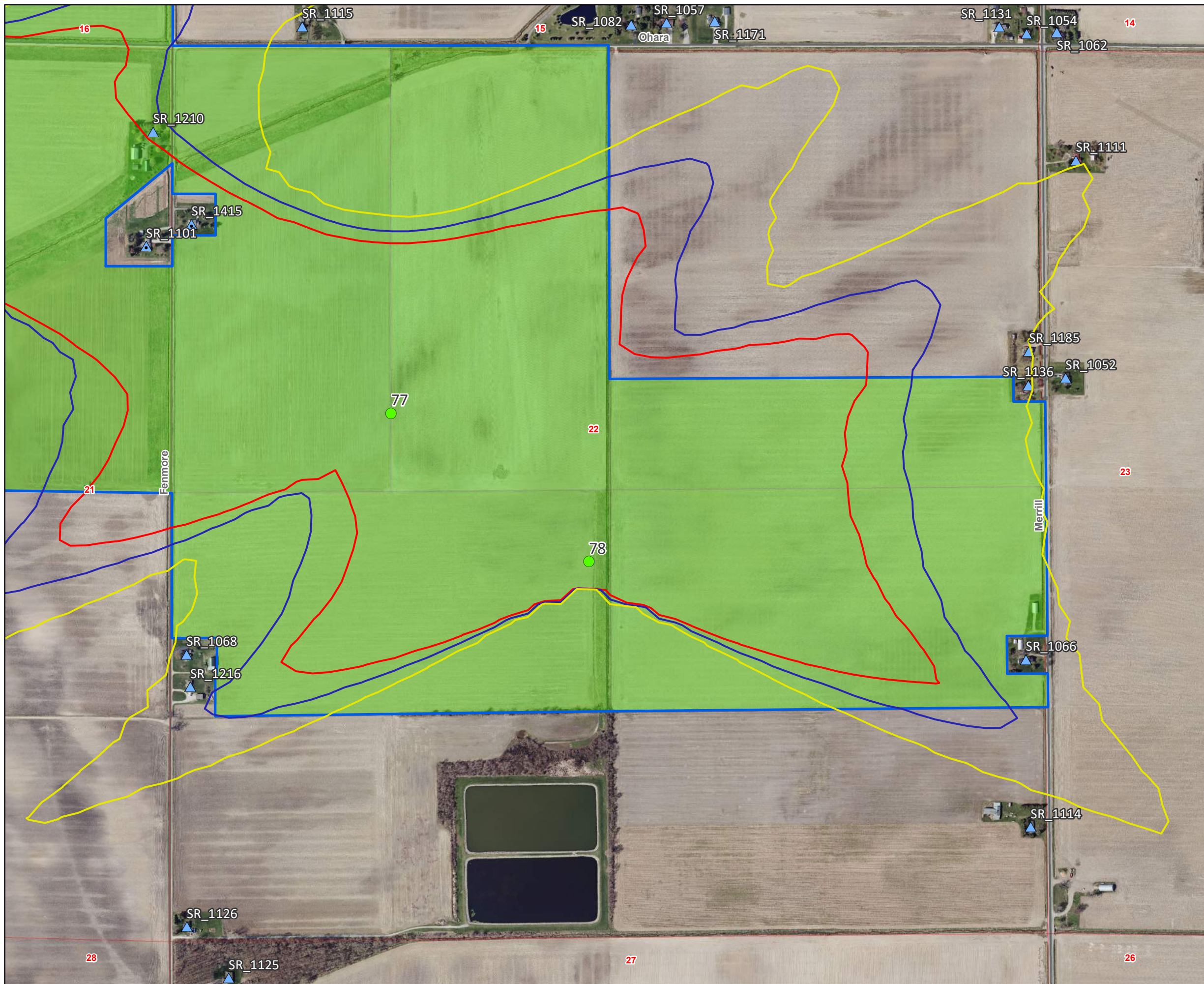
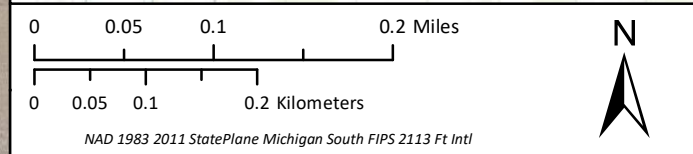
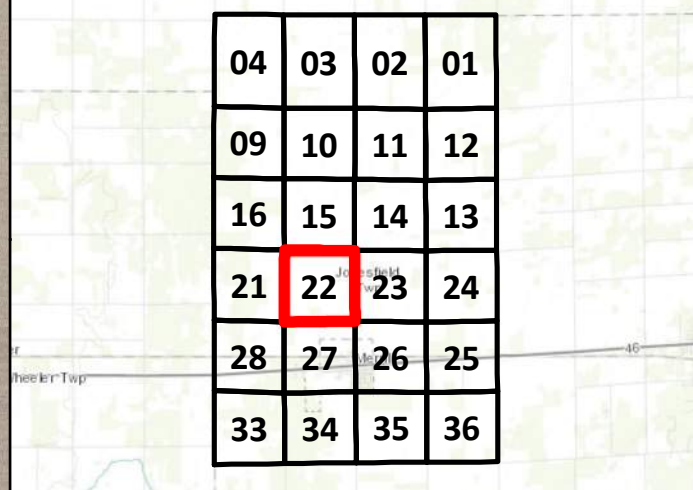




# Meridian Wind Park Jonesfield Township S22 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23





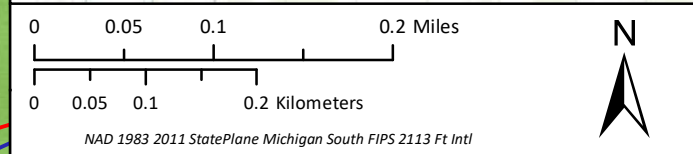
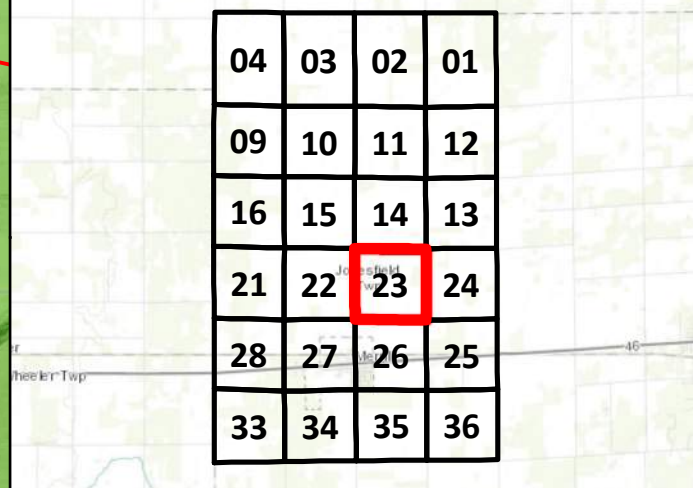
# Meridian Wind Park Jonesfield Township S23

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

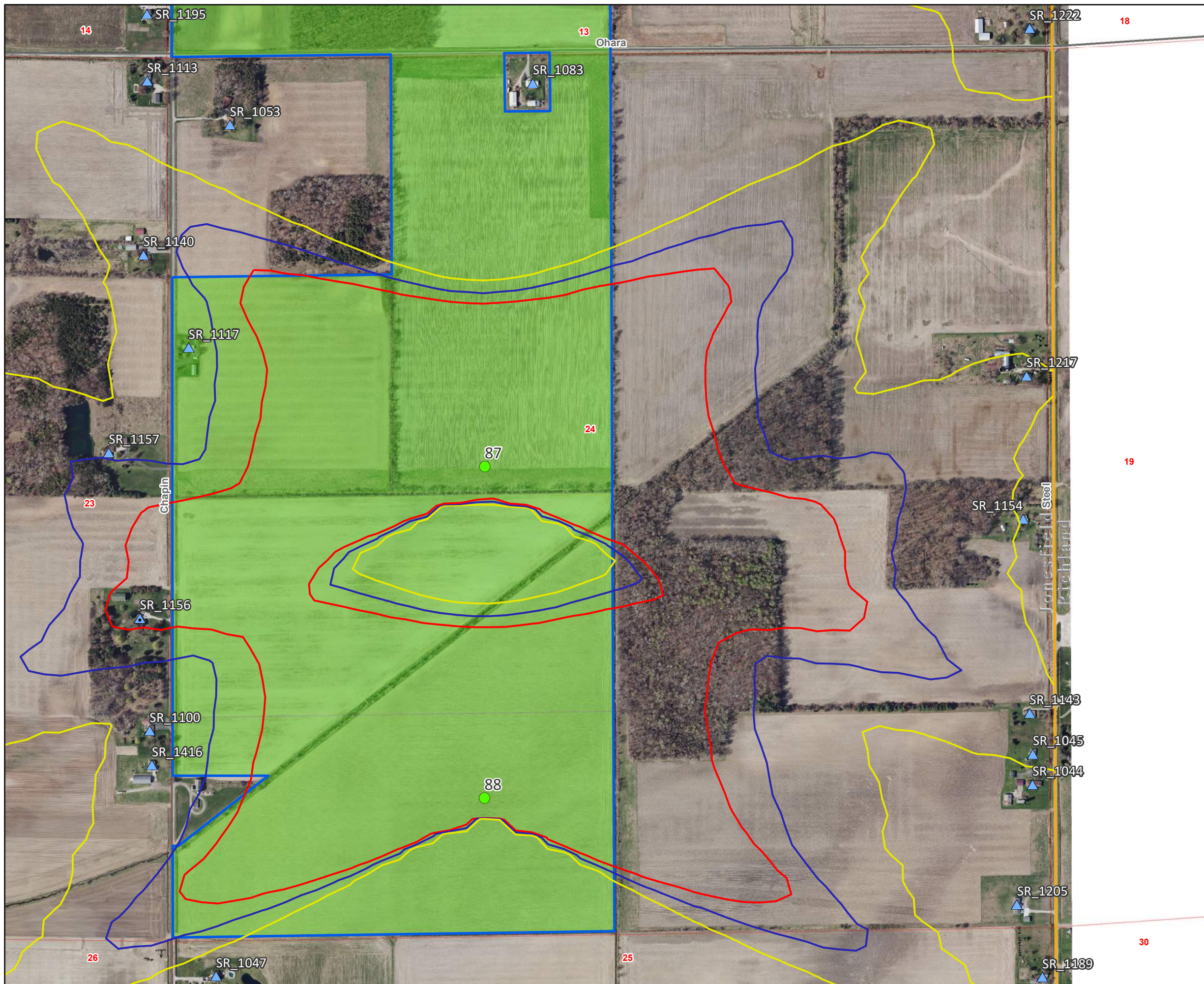
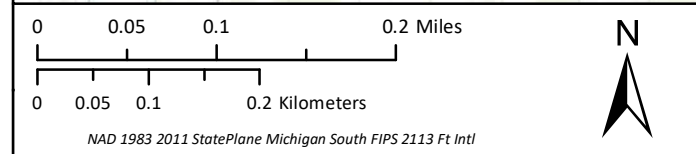
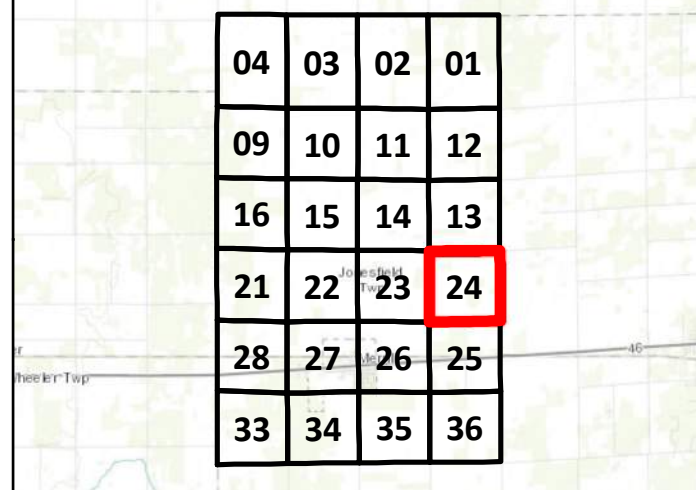




# Meridian Wind Park Jonesfield Township S24 Shadow Flicker Study Cumulative Shadow Flicker Contours Saginaw County, Michigan 2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23







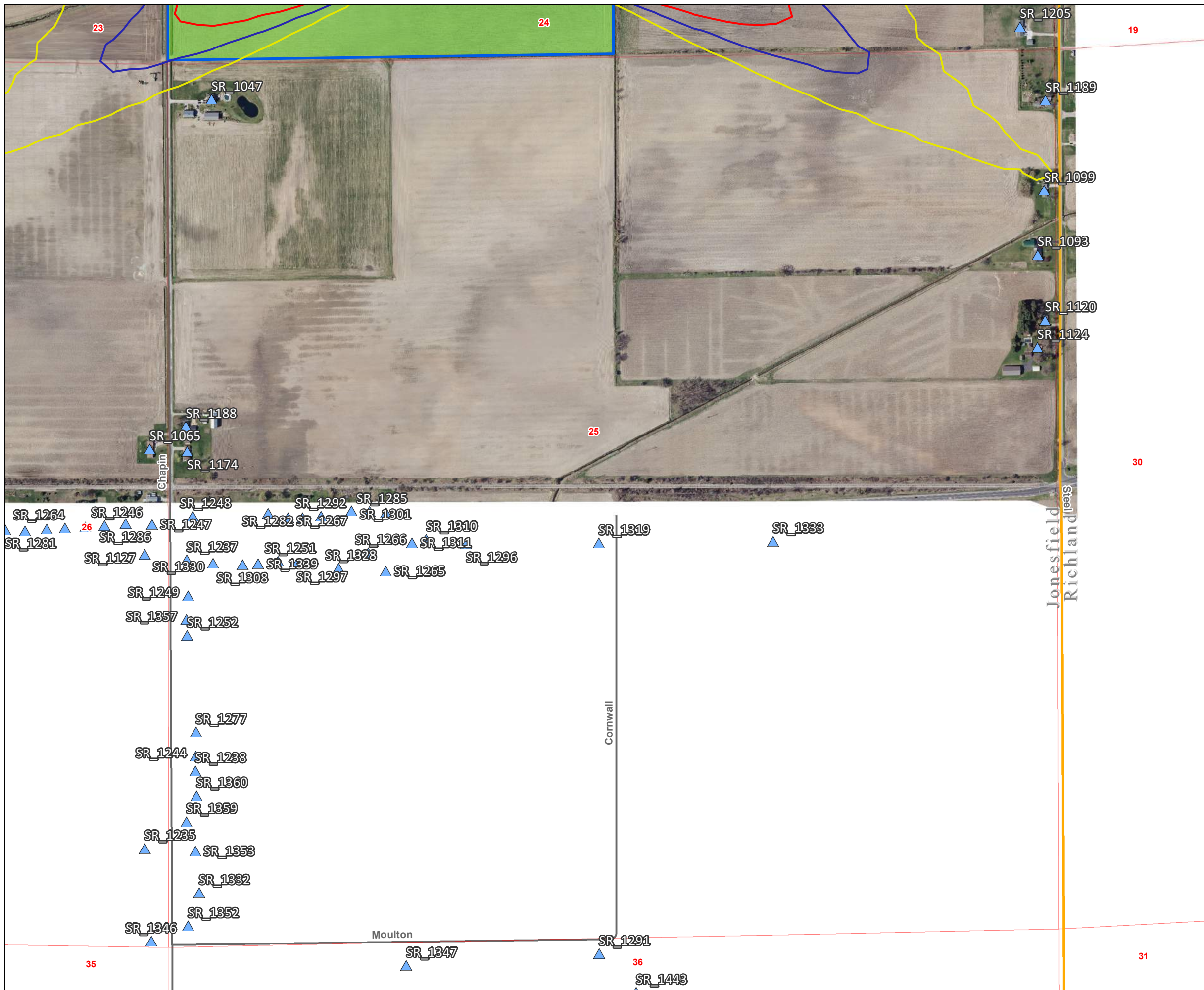
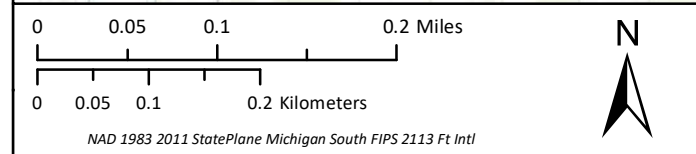
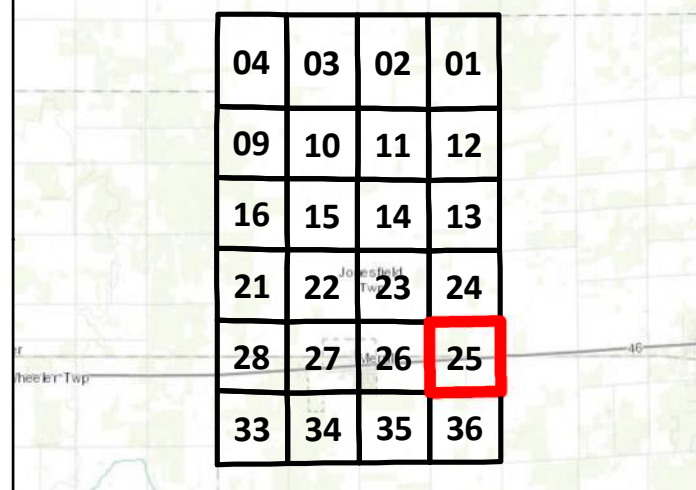
# Meridian Wind Park Jonesfield Township S25

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23





# Meridian Wind Park Jonesfield Township S26

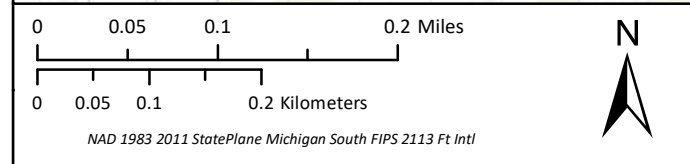
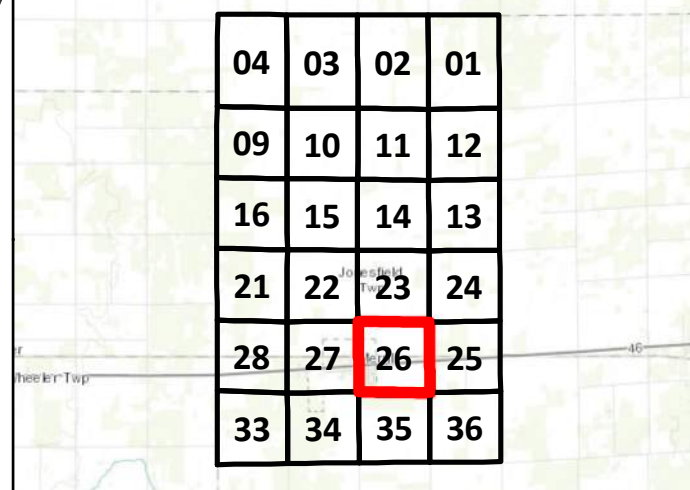
## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary



Turbine Layout r23





# Meridian Wind Park Jonesfield Township S27

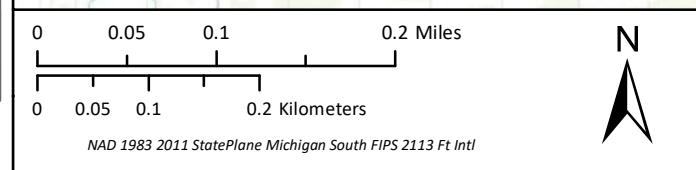
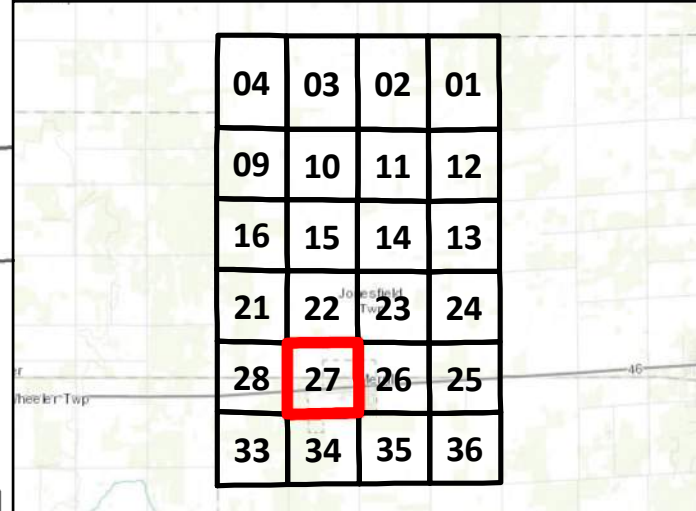
## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary



Turbine Layout r23





# Meridian Wind Park Jonesfield Township S28

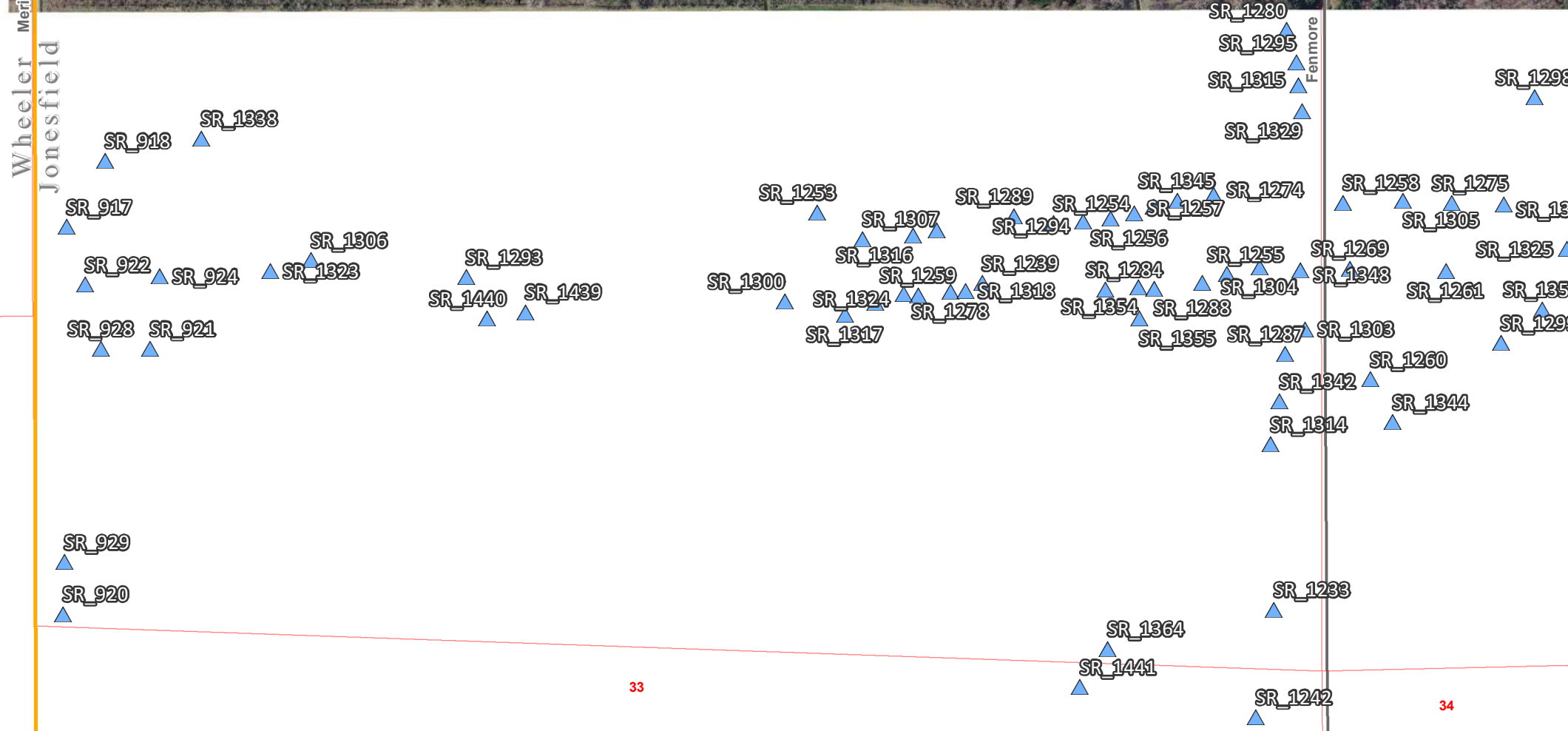
## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

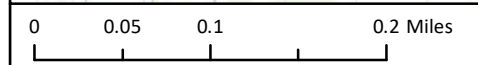


Wheeler Meridian  
Jonesfield



Turbine Layout r23

04	03	02	01
09	10	11	12
16	15	14	13
21	22	23	24
28	27	26	25
33	34	35	36



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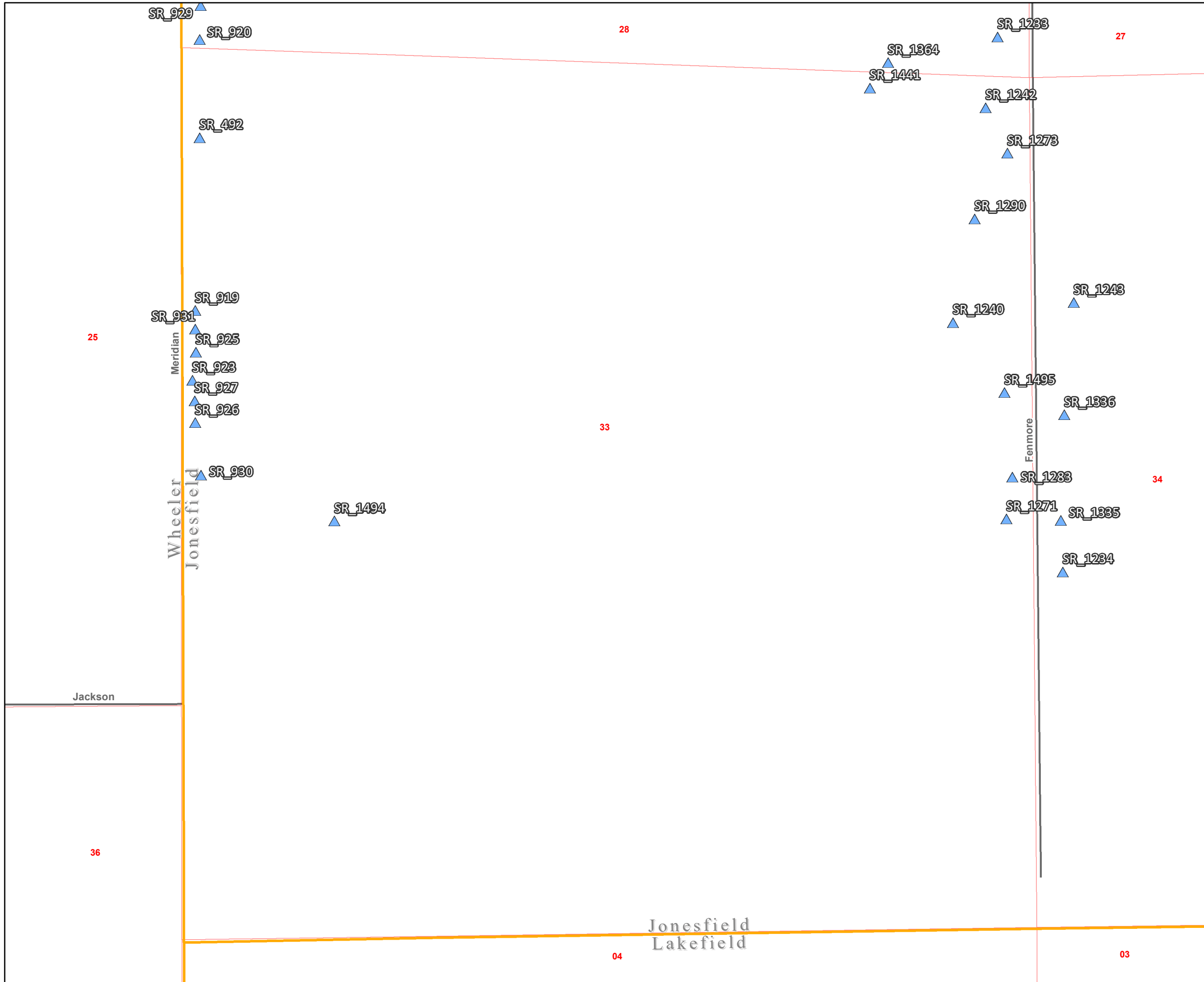
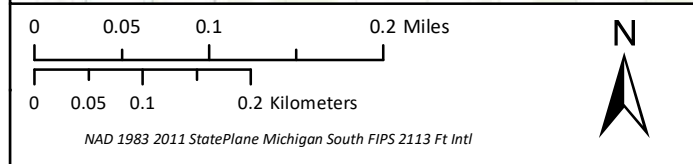
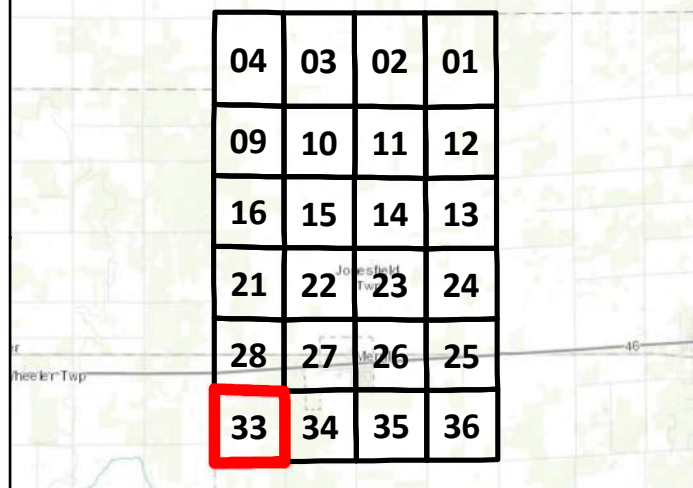
# Meridian Wind Park Jonesfield Township S33

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



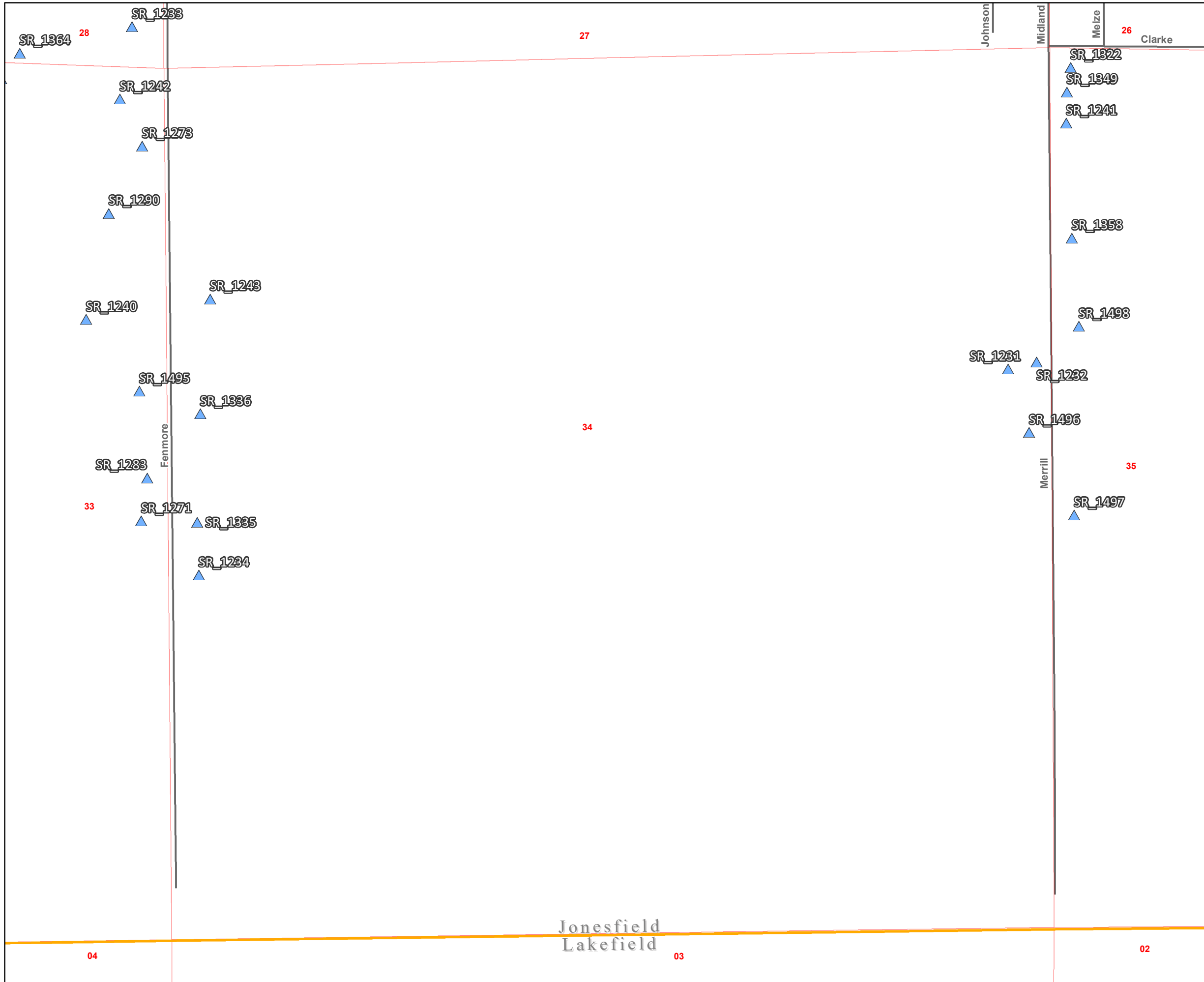
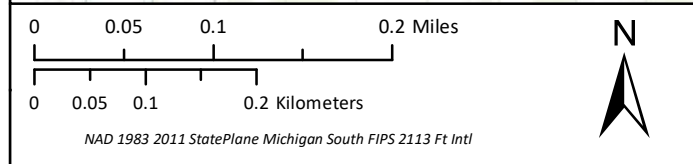
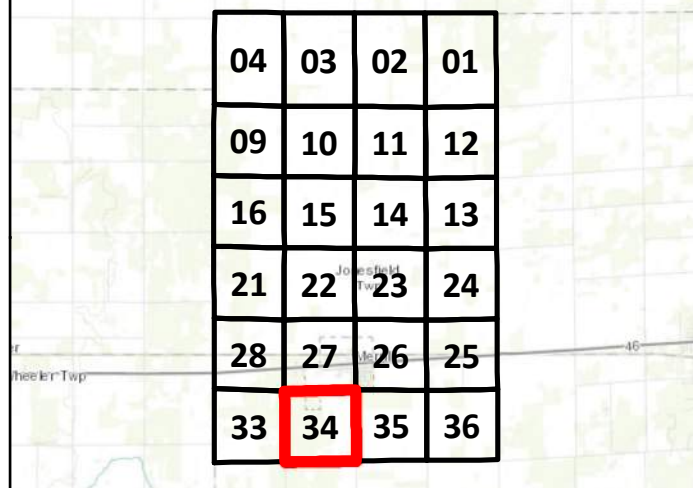
# Meridian Wind Park Jonesfield Township S34

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23





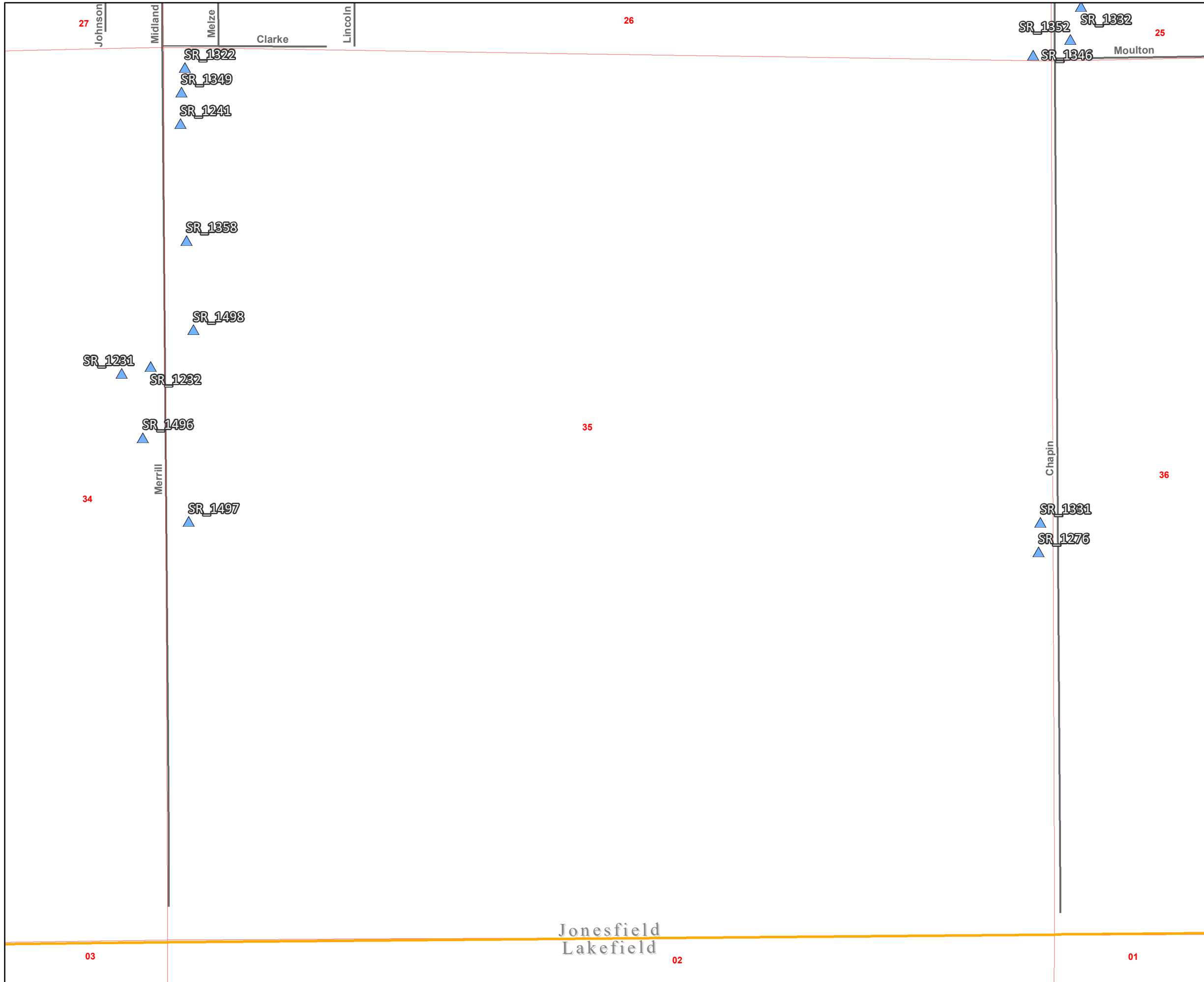
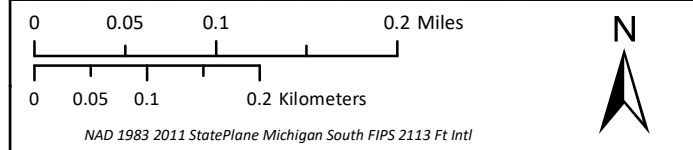
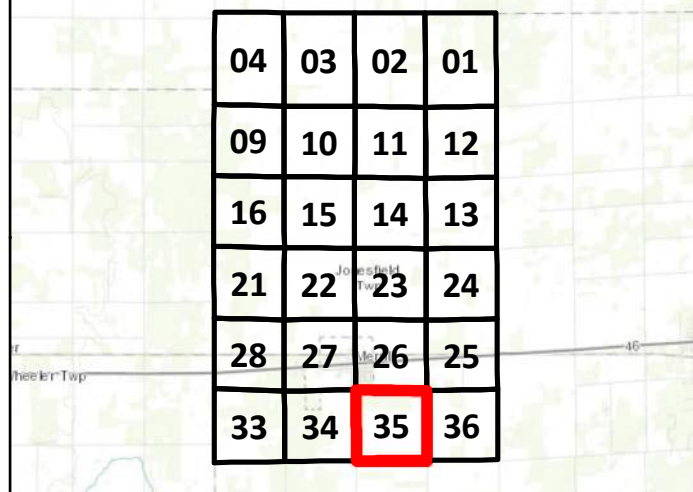
# Meridian Wind Park Jonesfield Township S35

## Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23





# Meridian Wind Park Jonesfield Township S36 Shadow Flicker Study

Cumulative Shadow Flicker Contours  
Saginaw County, Michigan  
2 December 2020

- Primary Turbine Location
- Alternate Turbine Location
- Collection Substation
- Shadow Flicker 10 Hour Line
- Shadow Flicker 20 Hour Line
- Shadow Flicker 30 Hour Line
- ▲ Shadow Receptor
- ▲ Shadow Flicker Mitigation Required
- Project Site
- Project Site Boundary

Turbine Layout r23

