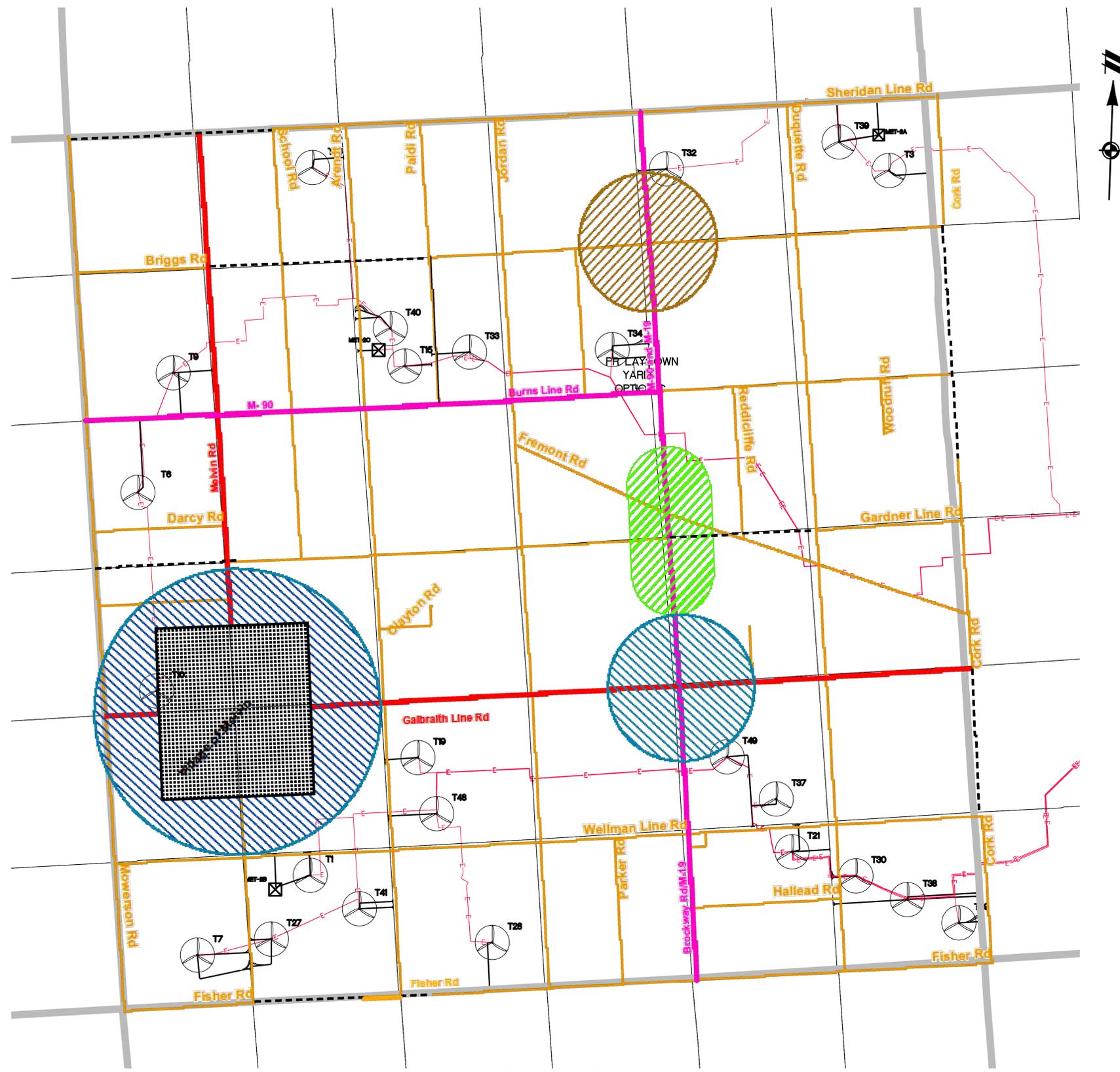




\\\MAPROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-01-SPE-ZONING-07.dwg 07/30/2025 11:38 AM BENJAMIN SAVORS



**ZONING MAP**  
NOT TO SCALE

- LEGEND**
- Ag/Rural Residential Area
  - M-19 Industrial Area
  - M-19 Commercial Corridor
  - Residential Settlement Area
  - State highways
  - Primary Roads
  - Local Roads
  - Section Line

- TOWNSHIP BOUNDARY LIMITS
- T8  
PROP. TURBINE LOCATION  
TURBINE #
- PROPOSED COLLECTION LINE ROUTE  
(TO BE BURIED NO LESS THAN 5FT)
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED MET TOWER

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

 <b>ATWELL</b> 866.850.4200 www.atwell-group.com TWO TOWNE SQUARE, SUITE 700 SOUTHFIELD, MI 48076 248.447.2600	
CLIENT MI ENERGY DEVELOPMENTS, LLC RIVERBEND WIND ENERGY FACILITY APPENDIX J - ALTERNATIVES (EXHIBITS A-1.5) SPEAKER TOWNSHIP ZONING MAP	SPEAKER, FREMONT AND ELK TOWNSHIPS SANILAC COUNTY, MICHIGAN
DATE 07/30/2025	
REVISIONS SCALE 0	
DR. MB/GS   CH. BS P.M. BS BOOK -- JOB 21003645 SHEET NO. 35	

CAD FILE: \\\MAPROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-01-SPE-ZONING-01.dwg





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SOUTHFIELD, MI 48076  
248.447.2600

SECTIONS: VARIOUS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT
MI ENERGY DEVELOPMENTS, LLC
RIVERBEND WIND ENERGY FACILITY
APPENDIX A - SITE PLAN
(EXHIBITS A-1.1, 1.2 & 1.4)
SPEAKER TOWNSHIP - SECTION 02

DATE
07/30/2025
REVISIONS
SCALE 0 150 300
1" = 300 FEET
DR. MB/GS CH. BS
P.M. BS
BOOK --
JOB 21003645
SHEET NO.
37

ELK TOWNSHIP



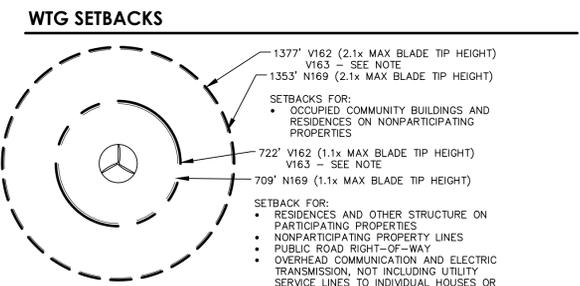
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SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

KEY MAP

NO SCALE

**LEGEND**

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING PARCEL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANEWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)
- 196.5 M (644 FT) (NORDEX N169)
- 195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE)
- 55 DBA SOUND CONTOUR (VESTAS V163)



- NOTES:
- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
  - ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
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  - THE PROJECT IS USING THE SAME SETBACKS FOR THE V162 AND V163. IF UTILIZED THE V163 WOULD ONLY HAVE SETBACKS OF 1375' AND 720' RESPECTIVELY.

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

SPEAKER SEC-11

SPEAKER SEC-03

SPEAKER SEC-01

\\LAN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-ANDY

\\MAIN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-04.DWG

SPEAKER SEC-06

BRIGGS RD (66FT ROW)

MELVIN RD (66FT ROW)

SCHOOL RD (66FT ROW)

ELK TOWNSHIP

W SHERIDAN LINE RD (66FT ROW)



SPEAKER SEC-04

ARENDDT RD (66FT ROW)

SPEAKER SEC-08



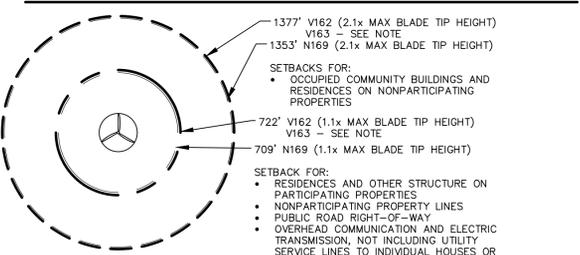
SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

KEY MAP

LEGEND

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING PARCEL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
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- 195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE
- 55 DBA SOUND CONTOUR (VESTAS V163)

WTG SETBACKS



- NOTES:
- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
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PRELIMINARY PLANS - NOT FOR CONSTRUCTION

**811**  
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CLIENT	MI ENERGY DEVELOPMENTS, LLC
CLIENT	RIVERBEND WIND ENERGY FACILITY
CLIENT	APPENDIX A - SITE PLAN
CLIENT	(EXHIBITS A-1.1, 1.2 & 1.4)
CLIENT	SPEAKER TOWNSHIP - SECTION 05
SECTIONS:	VARIOUS
SECTION:	TOWN 09 NORTH, RANGE 14 EAST
SECTION:	SPEAKER TOWNSHIP
SECTION:	SANILAC COUNTY, MICHIGAN
DATE	07/30/2025
REVISIONS	
SCALE	0 150 300
SCALE	1" = 300 FEET
DR.	MB/GS
CH.	BS
P.M.	BS
BOOK	--
JOB	21003645
SHEET NO.	38

CAD FILE: \\MAIN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-04.DWG



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SECTIONS: VARIOUS  
TOWN 09 NORTH, RANGE 14 EAST  
SPEAKER TOWNSHIP  
SANILAC COUNTY, MICHIGAN

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX A - SITE PLAN  
(EXHIBITS A-1.1, 1.2 & 1.4)  
SPEAKER TOWNSHIP - SECTION 07

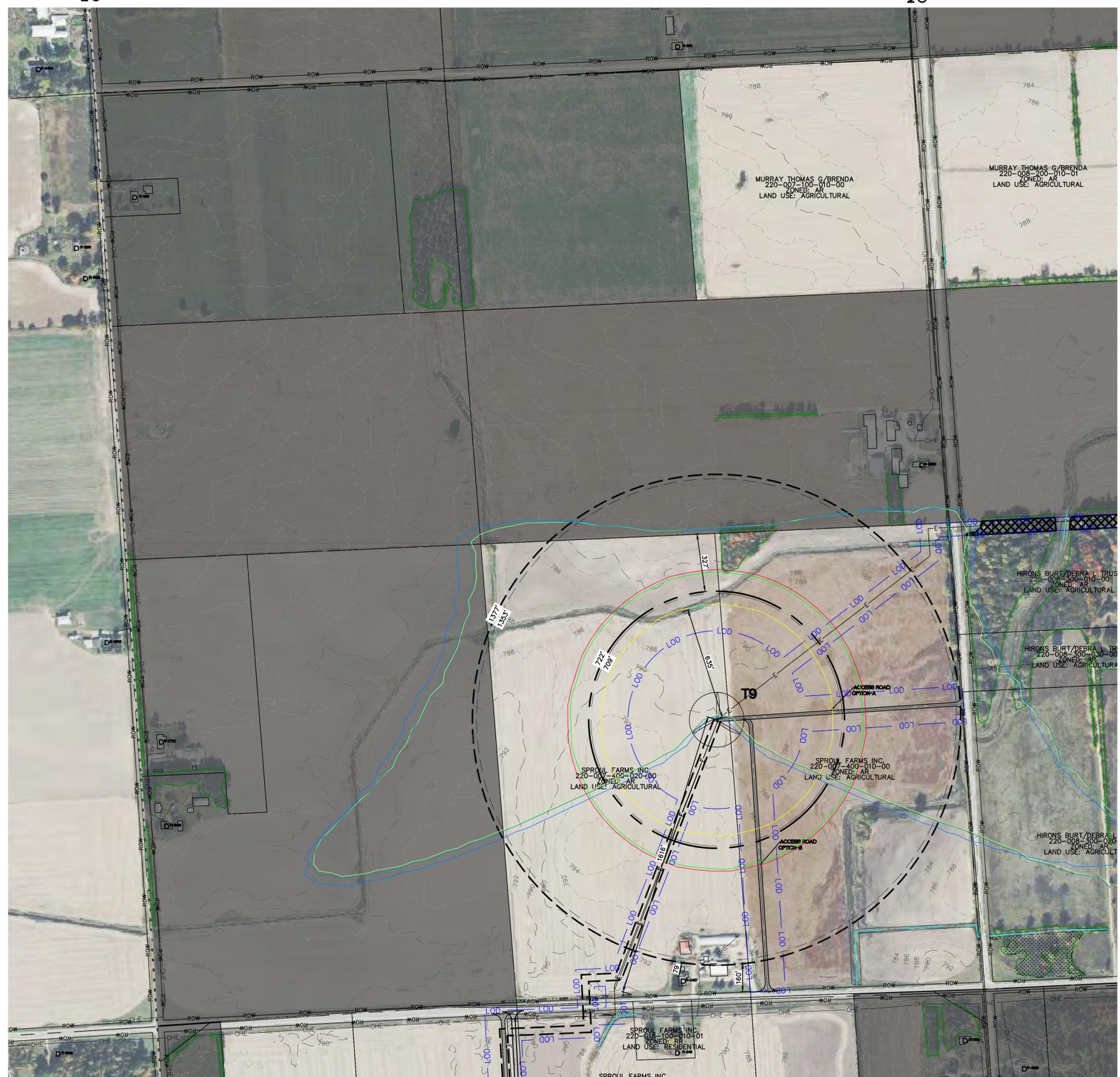
DATE: 07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a graphic scale bar from 0 to 300 feet.

DR. MB/GS/CH. BS  
P.M. BS  
BOOK --  
JOB 21003645  
SHEET NO. 39

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\SEC-05\MPS-05-SPE-06.DWG

SPEAKER SEC-06



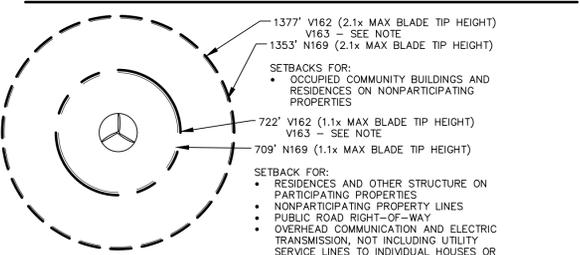
KEY MAP grid showing 36 sections (SPE-01 to SPE-36) with their respective road names and orientations.

KEY MAP NO SCALE

LEGEND

- EXISTING STRUCTURE
EXISTING OCCUPIED DWELLING
EXISTING OCCUPIED DWELLING (SURVEYED)
EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
EXISTING ROAD R.O.W.
EXISTING RAILROAD
EXISTING TOWNSHIP LINE
EXISTING SECTION LINE
EXISTING OVERHEAD ELECTRICAL
EXISTING TRANSMISSION LINE
EXISTING TREE LINE
EXISTING PARCEL BOUNDARY
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING WATERCOURSE
EXISTING WATERBODY
EXISTING WETLAND
NON-PARTICIPATING PARCEL
PROPOSED FENCE (SUBSTATION)
PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
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30-HOUR SHADOW FLICKER (VESTAS V163)
55 DBA SOUND CONTOUR (NORDEX N169)
55 DBA SOUND CONTOUR (VESTAS V162)
55 DBA SOUND CONTOUR (VESTAS V163)

WTG SETBACKS



- NOTES:
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PRELIMINARY PLANS - NOT FOR CONSTRUCTION

BRIGGS RD (66FT ROW)

MOWERSON RD (66FT ROW)

MELVIN RD (66FT ROW)

MAPLE VALLEY TOWNSHIP

SPEAKER SEC-18

W BURNS LINE RD (66FT ROW)





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SECTIONS: VARIOUS  
TOWN 09 NORTH, RANGE 14 EAST  
SPEAKER TOWNSHIP  
SANILAC COUNTY, MICHIGAN

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX A - SITE PLAN  
(EXHIBITS A-1.1, 1.2 & 1.4)  
SPEAKER TOWNSHIP - SECTION 09

DATE: 07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a graphic scale bar showing 0, 150, 300 feet.

DR. MB/GS | CH. BS  
BOOK --  
JOB 21003645  
SHEET NO. 41

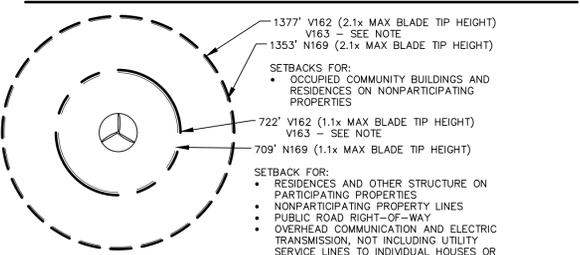
KEY MAP grid showing 36 SPEAKER sections (SPE-01 to SPE-36) arranged in a 6x6 grid. SPE-09 is highlighted in grey.

KEY MAP

LEGEND

- EXISTING STRUCTURE
EXISTING OCCUPIED DWELLING
EXISTING OCCUPIED DWELLING (SURVEYED)
EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
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EXISTING RAILROAD
EXISTING TOWNSHIP LINE
EXISTING SECTION LINE
EXISTING OVERHEAD ELECTRICAL
EXISTING TRANSMISSION LINE
EXISTING TREE LINE
EXISTING PARCEL BOUNDARY
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING WATERCOURSE
EXISTING WATERBODY
EXISTING WETLAND
NON-PARTICIPATING PARCEL
PROPOSED FENCE (SUBSTATION)
PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
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PROPOSED CRANEWALK
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PROPOSED MET TOWER
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55 DBA SOUND CONTOUR (NORDEX N169)
55 DBA SOUND CONTOUR (VESTAS V162)
7.2 MW - SEE NOTE)
55 DBA SOUND CONTOUR (VESTAS V163)

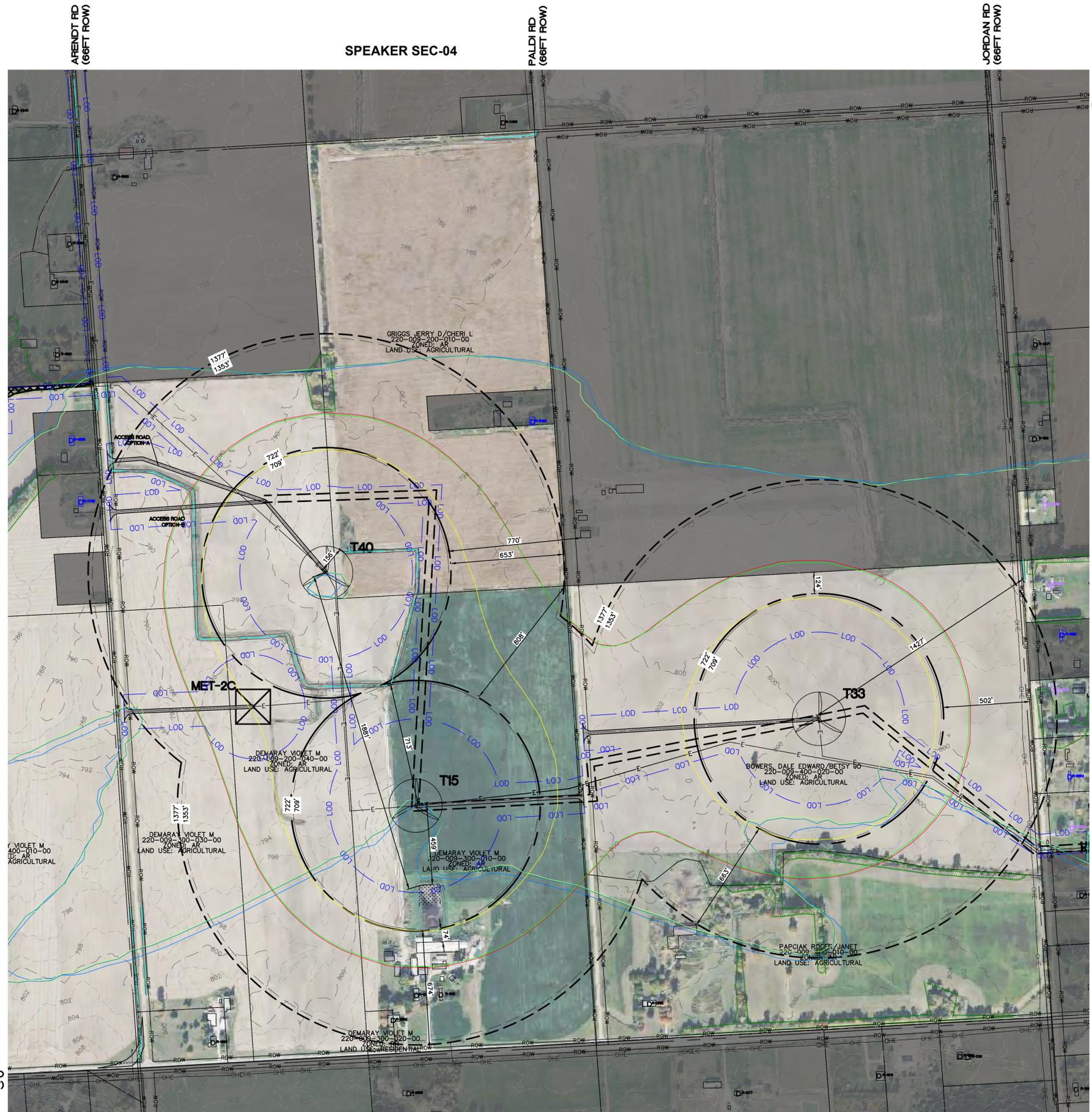
WTG SETBACKS



NOTES:

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PRELIMINARY PLANS - NOT FOR CONSTRUCTION



MORTIMER LINE RD (66FT ROW)



SPEAKER SEC-10

SPEAKER SEC-08

SPEAKER SEC-16

W BURNS LINE RD (66FT ROW)

\\LAN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-09.DWG

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SECTIONS: VARIOUS  
 TOWN 09 NORTH, RANGE 14 EAST  
 SPEAKER TOWNSHIP  
 SANILAC COUNTY, MICHIGAN

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
 RIVERBEND WIND ENERGY FACILITY  
 APPENDIX A - SITE PLAN  
 (EXHIBITS A-1.1, 1.2 & 1.4)  
 SPEAKER TOWNSHIP - SECTION 10

DATE: 07/30/2025

REVISIONS
SCALE 0 150 300 1" = 300 FEET
DR. MB/GS   CH. BS
P.M. BS
BOOK --
JOB 21003645
SHEET NO. 42

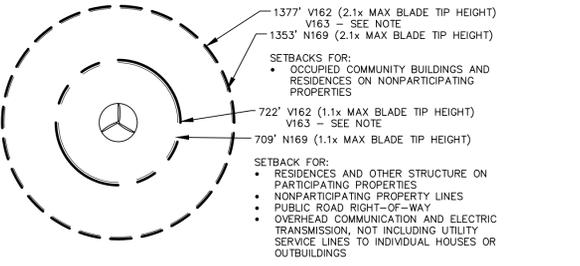
SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
 NO SCALE

**LEGEND**

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING PARCEL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANEWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)  
196.5 M (644 FT) (NORDEX N169)  
195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 55 DBA SOUND CONTOUR (VESTAS V163)

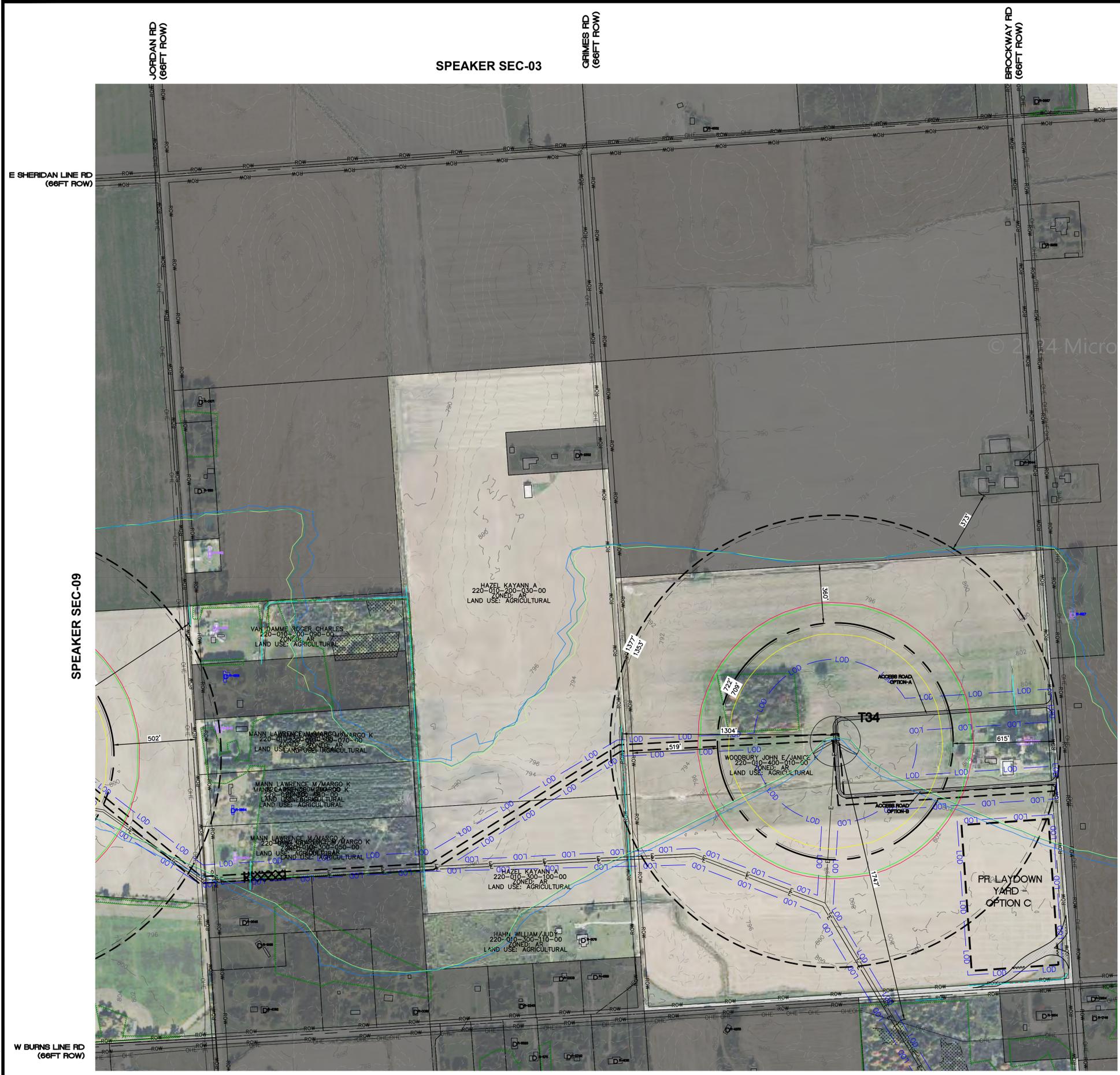
**WTG SETBACKS**



**NOTES:**

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- THE PROJECT IS USING THE SAME SETBACKS FOR THE V162 AND V163. IF UTILIZED THE V163 WOULD ONLY HAVE SETBACKS OF 1375' AND 720' RESPECTIVELY.

**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**



SPEAKER SEC-11

SPEAKER SEC-15

SPEAKER SEC-09

SPEAKER SEC-03

W BURNS LINE RD (66FT ROW)

JORDAN RD (66FT ROW)

GRIMES RD (66FT ROW)

BROCKWAY RD (66FT ROW)



Know what's below.

Call before you dig.

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SOUTHFIELD, MI 48076  
248.447.2600



SECTIONS: VARIOUS  
TOWN 09 NORTH, RANGE 14 EAST  
SPEAKER TOWNSHIP  
SANILAC COUNTY, MICHIGAN

CLIENT  
**MI ENERGY DEVELOPMENTS, LLC**  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX A - SITE PLAN  
(EXHIBITS A-1.1, 1.2 & 1.4)  
SPEAKER TOWNSHIP - SECTION 14

DATE  
07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a graphic scale from 0 to 300 feet.

DR. MB/GS | CH. BS  
P.M. BS  
BOOK --  
JOB 21003645  
SHEET NO. 43

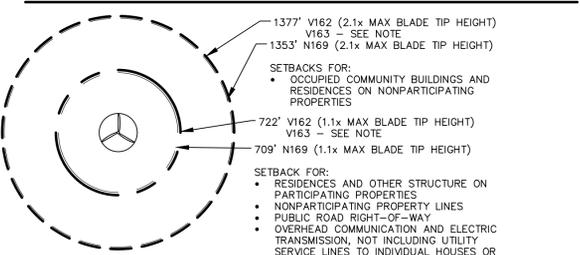
KEY MAP grid showing 36 SPE locations (SPE-01 to SPE-36) arranged in a 6x6 grid.

KEY MAP  
NO SCALE

LEGEND

- EXISTING STRUCTURE
EXISTING OCCUPIED DWELLING
EXISTING OCCUPIED DWELLING (SURVEYED)
EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
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EXISTING RAILROAD
EXISTING TOWNSHIP LINE
EXISTING SECTION LINE
EXISTING OVERHEAD ELECTRICAL
EXISTING TRANSMISSION LINE
EXISTING TREE LINE
EXISTING PARCEL BOUNDARY
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING WATERCOURSE
EXISTING WATERBODY
EXISTING WETLAND
NON-PARTICIPATING PARCEL
PROPOSED FENCE (SUBSTATION)
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PROPOSED CRANEWALK
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PROPOSED TREE CLEARING
PROPOSED MET TOWER
EXISTING COUNTY ROAD
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MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)
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195.5 M (655 FT) (VESTAS V163)
30-HOUR SHADOW FLICKER (NORDEX N169)
30-HOUR SHADOW FLICKER (VESTAS V162)
30-HOUR SHADOW FLICKER (VESTAS V163)
55 DBA SOUND CONTOUR (NORDEX N169)
55 DBA SOUND CONTOUR (VESTAS V162)
7.2 MW - SEE NOTE)
55 DBA SOUND CONTOUR (VESTAS V163)

WTG SETBACKS



- NOTES:
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PRELIMINARY PLANS - NOT FOR CONSTRUCTION



\\LAN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-ND01

SPEAKER SEC-23

SPEAKER SEC-15

SPEAKER SEC-11

SPEAKER SEC-13



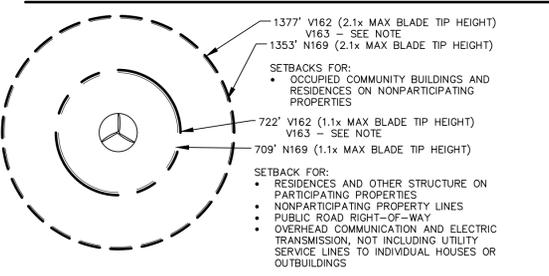
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SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
NO SCALE

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- 30-HOUR SHADOW FLICKER (VESTAS V163)
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**WTG SETBACKS**



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**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**

**811**  
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SOUTHFIELD, MI 48076  
248.447.2600

SECTIONS: VARIOUS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

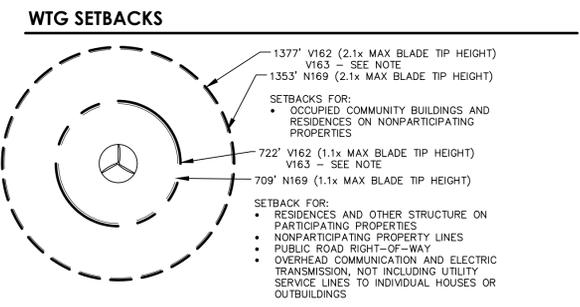
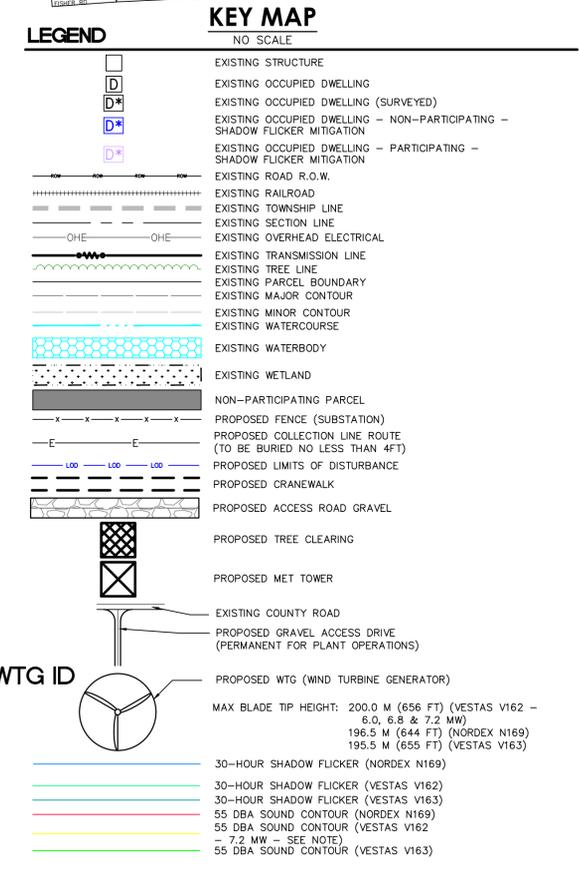
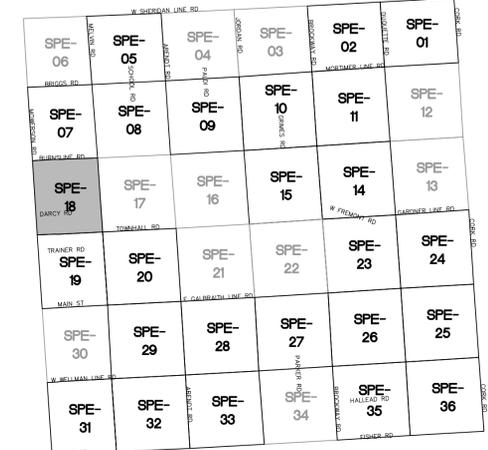
CLIENT	MI ENERGY DEVELOPMENTS, LLC
PROJECT	RIVERBEND WIND ENERGY FACILITY
APPENDIX A - SITE PLAN	(EXHIBITS A-1.1, 1.2 & 1.4)
SECTION	SPEAKER TOWNSHIP - SECTION 15

DATE	07/30/2025
REVISIONS	
SCALE	1" = 300 FEET
DR. MB/GS	CH. BS
P.M. BS	
BOOK	--
JOB	21003645
SHEET NO.	44

C:\PROJECTS\DATA\SHARED\PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-05-SPE-ANDY

SPEAKER SEC-07

SPEAKER SEC-19



TOWN HALL RD (66FT ROW)

- NOTES:
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SECTIONS: VARIOUS  
TOWN 09 NORTH, RANGE 14 EAST  
SPEAKER TOWNSHIP  
SANILAC COUNTY, MICHIGAN

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX A - SITE PLAN  
(EXHIBITS A-1.1, 1.2 & 1.4)  
SPEAKER TOWNSHIP - SECTION 19

DATE: 07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a scale bar from 0 to 300 feet and a note '1" = 300 FEET'.

Table with 2 columns: DR., CH., BS. Includes fields for P.M., BOOK, JOB, SHEET NO., and a value of 46.

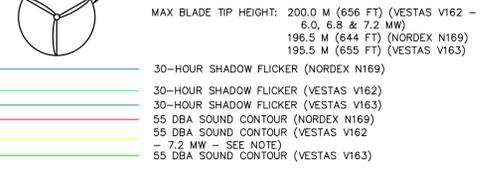
KEY MAP grid showing 36 sections (SPE-01 to SPE-36) arranged in a 6x6 grid.

KEY MAP

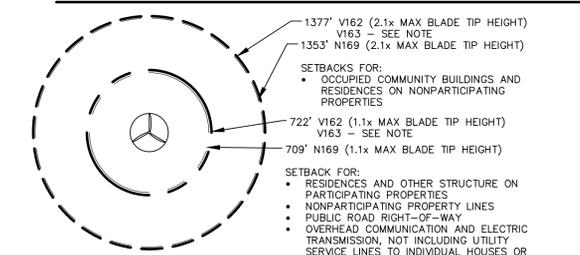
LEGEND

- EXISTING STRUCTURE
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EXISTING OCCUPIED DWELLING (SURVEYED)
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30-HOUR SHADOW FLICKER (NORDEX N169)
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55 DBA SOUND CONTOUR (NORDEX N169)
55 DBA SOUND CONTOUR (VESTAS V162)
55 DBA SOUND CONTOUR (VESTAS V163)

WTG ID



WTG SETBACKS



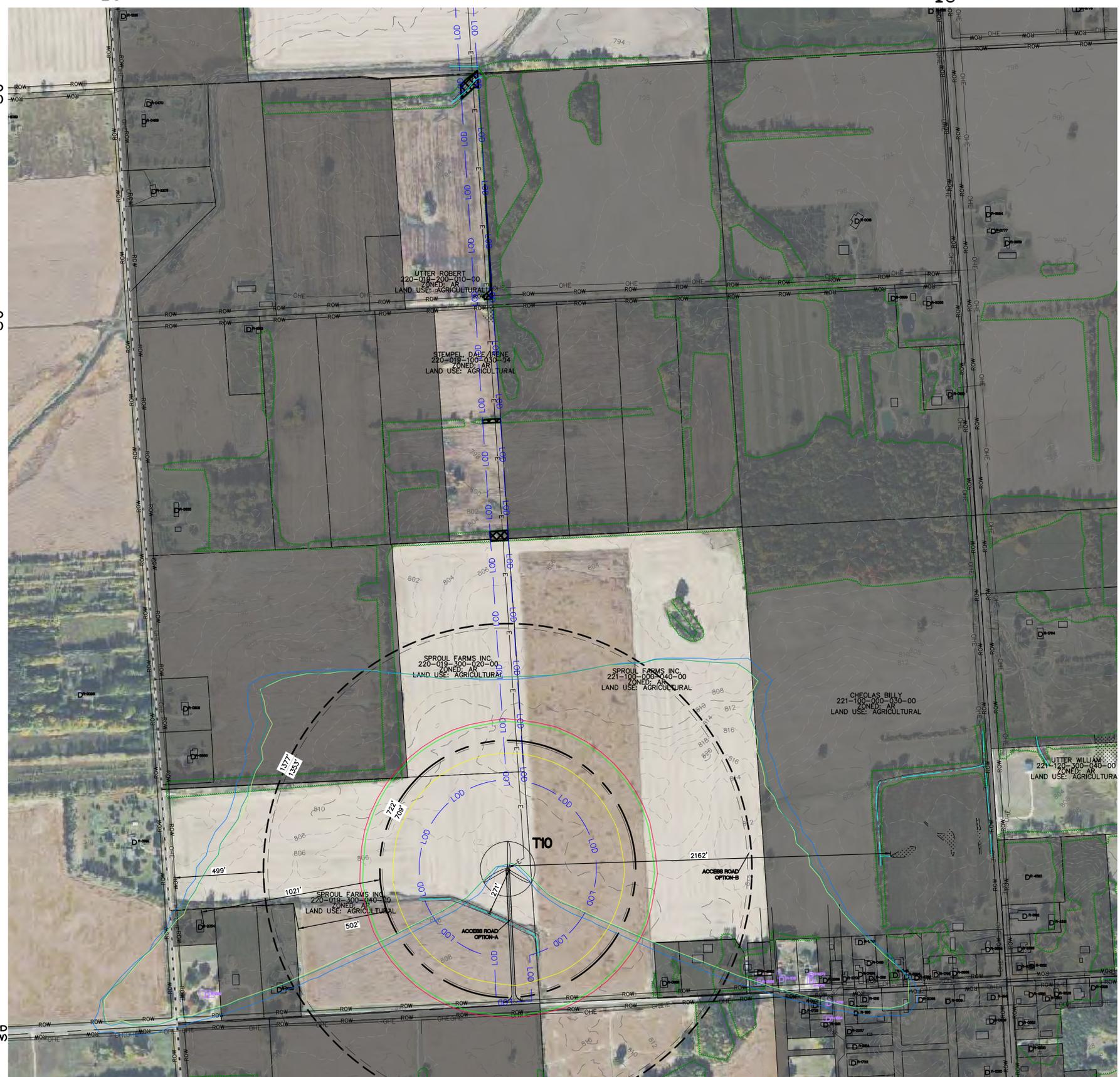
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PRELIMINARY PLANS - NOT FOR CONSTRUCTION

SPEAKER SEC-18

SPEAKER SEC-30



TOWN HALL RD (66FT ROW)



SPEAKER SEC-20

MOWERSON RD (66FT ROW)

MELVIN RD (66FT ROW)

LIDLAW RD (66FT ROW)

TRAINER RD (66FT ROW)

MAPLE VALLEY TOWNSHIP

W GALBRAITH LINE RD (66FT ROW)

HANCOCK ST (66FT ROW)

GARFIELD ST (66FT ROW)

LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\SEC-19\030324-5-MPS-05-SPE-ND01

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\SEC-19\030324-5-MPS-05-SPE-ND01

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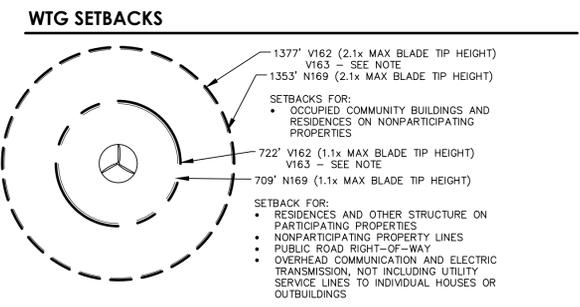


SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
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SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
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SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
NO SCALE

**LEGEND**

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**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**

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<b>CLIENT</b>	MI ENERGY DEVELOPMENTS, LLC
<b>SECTION:</b>	VARIOUS
<b>DATE</b>	07/30/2025
<b>PROJECT:</b>	RIVERBEND WIND ENERGY FACILITY
<b>APPENDIX:</b>	APPENDIX A - SITE PLAN
<b>EXHIBITS:</b>	A-1.1, 1.2 & 1.4
<b>TOWNSHIP:</b>	SPEAKER TOWNSHIP
<b>COUNTY:</b>	SANILAC COUNTY, MICHIGAN
<b>SECTION:</b>	TOWN 09 NORTH, RANGE 14 EAST
<b>SECTION:</b>	SPEAKER TOWNSHIP
<b>SECTION:</b>	SANILAC COUNTY, MICHIGAN
<b>SECTION:</b>	SPEAKER TOWNSHIP - SECTION 20

**REVISIONS**

NO.	DATE	DESCRIPTION

SCALE: 0 150 300  
1" = 300 FEET

DR. MB/GS | CH. BS

P.M. BS

BOOK --

JOB 21003645

SHEET NO. 47



Know what's below.

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SECTIONS: VARIOUS  
TOWN 09 NORTH, RANGE 14 EAST  
SPEAKER TOWNSHIP  
SANILAC COUNTY, MICHIGAN

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX A - SITE PLAN  
(EXHIBITS A-1.1, 1.2 & 1.4)  
SPEAKER TOWNSHIP - SECTION 23

DATE: 07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a scale bar from 0 to 300 feet and a note '1" = 300 FEET'.

DR. MB/GS/CH. BS  
BOOK --  
JOB 21003645  
SHEET NO. 48

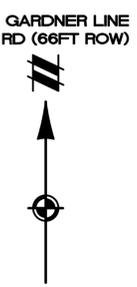
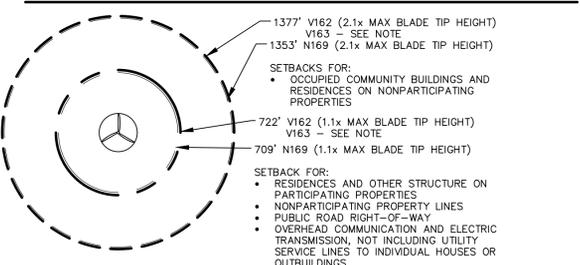
KEY MAP grid showing SPEAKER SEC-14 and SEC-24 sections with SPE-01 to SPE-36 labels.

KEY MAP NO SCALE

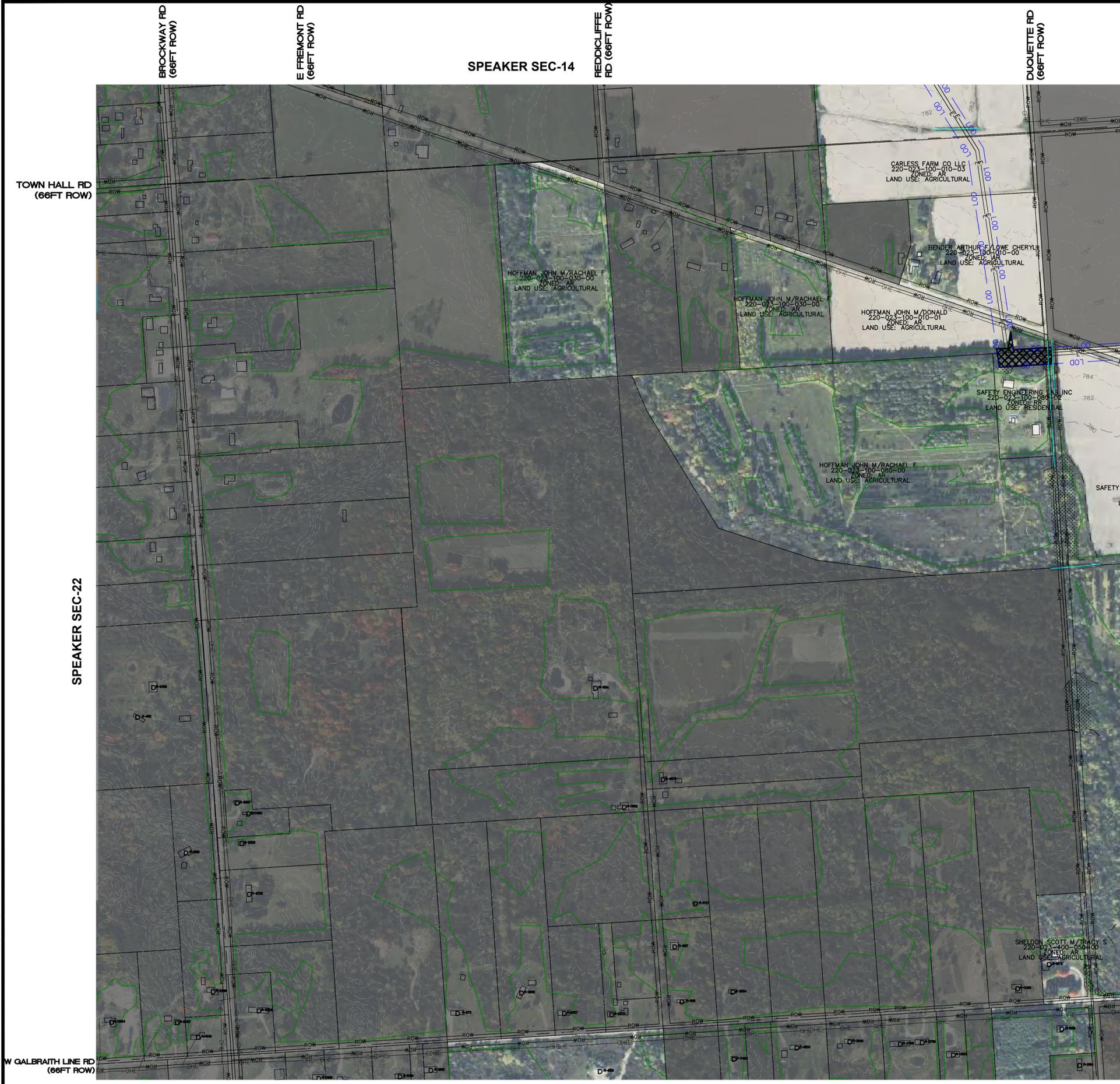
LEGEND

- EXISTING STRUCTURE
EXISTING OCCUPIED DWELLING
EXISTING OCCUPIED DWELLING (SURVEYED)
EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
EXISTING ROAD R.O.W.
EXISTING RAILROAD
EXISTING TOWNSHIP LINE
EXISTING SECTION LINE
EXISTING OVERHEAD ELECTRICAL
EXISTING TRANSMISSION LINE
EXISTING TREE LINE
EXISTING PARCEL BOUNDARY
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING WATERCOURSE
EXISTING WATERBODY
EXISTING WETLAND
NON-PARTICIPATING PARCEL
PROPOSED FENCE (SUBSTATION)
PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
PROPOSED LIMITS OF DISTURBANCE
PROPOSED CRANEWALK
PROPOSED ACCESS ROAD GRAVEL
PROPOSED TREE CLEARING
PROPOSED MET TOWER
EXISTING COUNTY ROAD
PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
PROPOSED WTG (WIND TURBINE GENERATOR)
MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)
196.5 M (644 FT) (NORDEX N169)
195.5 M (655 FT) (VESTAS V163)
30-HOUR SHADOW FLICKER (NORDEX N169)
30-HOUR SHADOW FLICKER (VESTAS V162)
30-HOUR SHADOW FLICKER (VESTAS V163)
55 DBA SOUND CONTOUR (NORDEX N169)
55 DBA SOUND CONTOUR (VESTAS V162)
7.2 MW - SEE NOTE)
55 DBA SOUND CONTOUR (VESTAS V163)

WTG SETBACKS



SPEAKER SEC-24



NOTES:

- 1. ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
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3. O&M FACILITY, SUBSTATION, SWITCHING STATION & LAYDOWN YARDS ARE REPRESENTATIVE LOCATIONS. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.
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PRELIMINARY PLANS - NOT FOR CONSTRUCTION

SPEAKER SEC-26

SPEAKER SEC-14

SPEAKER SEC-22

W GALBRAITH LINE RD (66FT ROW)

BROCKWAY RD (66FT ROW)

E FREMONT RD (66FT ROW)

REDDICLIFFE RD (66FT ROW)

DUQUETTE RD (66FT ROW)

TOWN HALL RD (66FT ROW)

GARDNER LINE RD (66FT ROW)

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-05-SPE-ANDY





\\\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-24.DWG  
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**SPEAKER SEC-24**

**SPEAKER SEC-36**

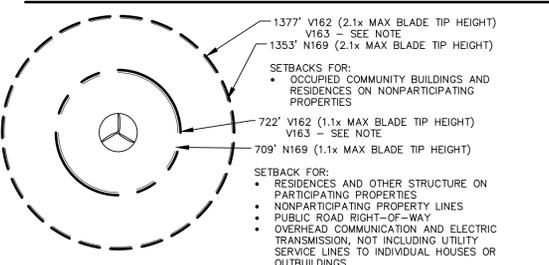
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SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
NO SCALE

**LEGEND**

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
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196.5 M (644 FT) (NORDEX N169)  
195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 55 DBA SOUND CONTOUR (VESTAS V163)

**WTG SETBACKS**



**NOTES:**

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**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**

**811**  
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SECTIONS: VARIOUS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT	MI ENERGY DEVELOPMENTS, LLC
PROJECT	RIVERBEND WIND ENERGY FACILITY
APPENDIX A - SITE PLAN	(EXHIBITS A-1.1, 1.2 & 1.4)
SECTION	SPEAKER TOWNSHIP - SECTION 25

DATE	07/30/2025
REVISIONS	
SCALE	0 150 300
	1" = 300 FEET
DR. MB/GS	CH. BS
P.M. BS	
BOOK	--
JOB	21003645
SHEET NO.	50

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-24.DWG



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248.447.2600

SECTIONS: VARIOUS
TOWN 09 NORTH, RANGE 14 EAST
SPEAKER TOWNSHIP
SANILAC COUNTY, MICHIGAN

CLIENT
MI ENERGY DEVELOPMENTS, LLC
RIVERBEND WIND ENERGY FACILITY
APPENDIX A - SITE PLAN
(EXHIBITS A-1.1, 1.2 & 1.4)
SPEAKER TOWNSHIP - SECTION 26

DATE 07/30/2025

REVISIONS
SCALE 0 150 300
1" = 300 FEET
DR. MB/GS CH. BS
BOOK --
JOB 21003645
SHEET NO. 51

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-05-SPE-INDY

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

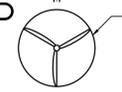
KEY MAP

NO SCALE

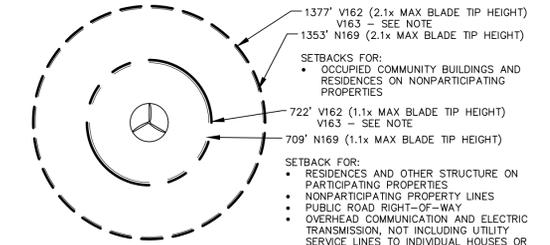
LEGEND

- EXISTING STRUCTURE
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- PROPOSED CRANEWALK
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- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 55 DBA SOUND CONTOUR (VESTAS V163)

WTG ID



WTG SETBACKS



NOTES:

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PRELIMINARY PLANS - NOT FOR CONSTRUCTION



SPEAKER SEC-25

SPEAKER SEC-27

SPEAKER SEC-35

\\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPSC\21003645-MPSC-05-SPE-INDY



**SPEAKER SEC-22**

**SPEAKER SEC-34**



**SPEAKER SEC-26**

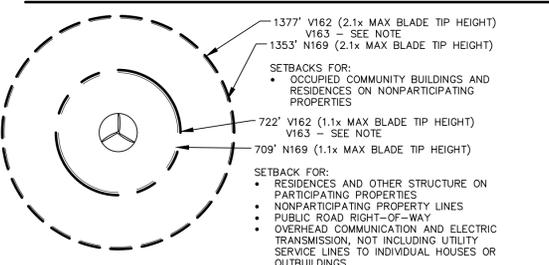
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SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
NO SCALE

**LEGEND**

- EXISTING STRUCTURE
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- 30-HOUR SHADOW FLICKER (VESTAS V163)
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- 55 DBA SOUND CONTOUR (VESTAS V162)
- 55 DBA SOUND CONTOUR (VESTAS V163)

**WTG SETBACKS**



**NOTES:**

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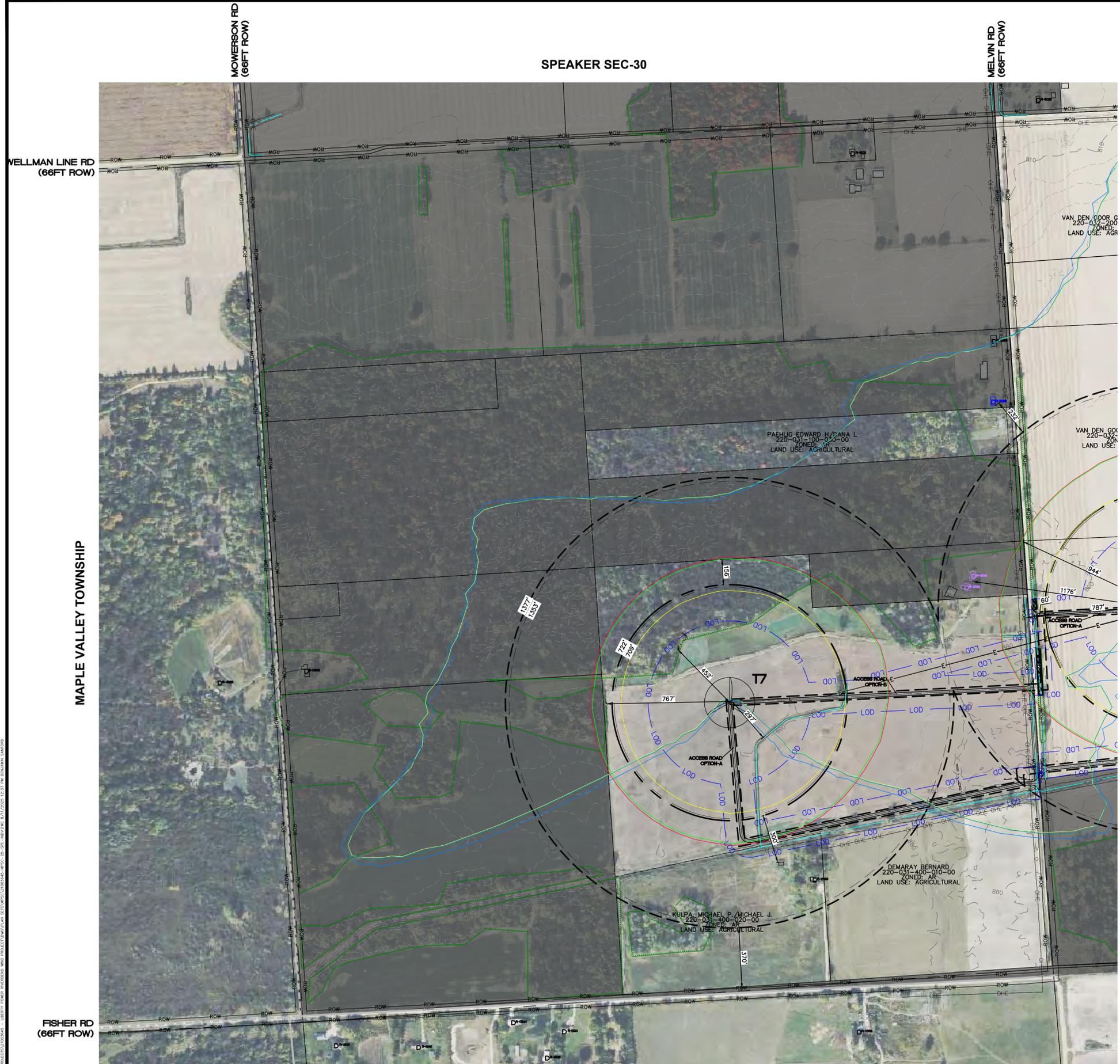
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TWO TOWNE SQUARE, SUITE 700  
SOUTHFIELD, MI 48076  
248.447.2600

CLIENT	MI ENERGY DEVELOPMENTS, LLC RIVERBEND WIND ENERGY FACILITY APPENDIX A - SITE PLAN (EXHIBITS A-1.1, 1.2 & 1.4) SPEAKER TOWNSHIP - SECTION 27	SECTIONS: VARIOUS TOWN 09 NORTH, RANGE 14 EAST SPEAKER TOWNSHIP SANILAC COUNTY, MICHIGAN
DATE	07/30/2025	
REVISIONS		
SCALE	0 150 300 1" = 300 FEET	
DR. MB/GS/CH. BS		
BOOK		
JOB	21003645	
SHEET NO.	52	

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-M01







WELLMAN LINE RD  
(66FT ROW)

MOWERSON RD  
(66FT ROW)

**SPEAKER SEC-30**

MELVIN RD  
(66FT ROW)

MAPLE VALLEY TOWNSHIP

FISHER RD  
(66FT ROW)

BROCKWAY TOWNSHIP

SPEAKER SEC-31

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

**KEY MAP**  
NO SCALE

**LEGEND**

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING PARCEL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)
- 196.5 M (644 FT) (NORDEX N169)
- 195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE)
- 55 DBA SOUND CONTOUR (VESTAS V163)

**WTG SETBACKS**

- 1377' V162 (2.1x MAX BLADE TIP HEIGHT) V163 - SEE NOTE
- 1353' N169 (2.1x MAX BLADE TIP HEIGHT)
- SETBACKS FOR:
  - OCCUPIED COMMUNITY BUILDINGS AND RESIDENCES ON NONPARTICIPATING PROPERTIES
- 722' V162 (1.1x MAX BLADE TIP HEIGHT) V163 - SEE NOTE
- 709' N169 (1.1x MAX BLADE TIP HEIGHT)
- SETBACK FOR:
  - RESIDENCES AND OTHER STRUCTURE ON PARTICIPATING PROPERTIES
  - NONPARTICIPATING PROPERTY LINES
  - PUBLIC ROAD RIGHT-OF-WAY
  - OVERHEAD COMMUNICATION AND ELECTRIC TRANSMISSION, NOT INCLUDING UTILITY SERVICE LINES TO INDIVIDUAL HOUSES OR OUTBUILDINGS

- NOTES:**
- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
  - ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
  - O&M FACILITY, SUBSTATION, SWITCHING STATION & LAYDOWN YARDS ARE REPRESENTATIVE LOCATIONS. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.
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  - THE PROJECT IS USING THE SAME SETBACKS FOR THE V162 AND V163. IF UTILIZED THE V163 WOULD ONLY HAVE SETBACKS OF 1375' AND 720' RESPECTIVELY.

**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**

**811**  
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TWO TOWNE SQUARE, SUITE 700  
SOUTHFIELD, MI 48076  
248.447.2600

CLIENT	MI ENERGY DEVELOPMENTS, LLC
CLIENT	RIVERBEND WIND ENERGY FACILITY
CLIENT	APPENDIX A - SITE PLAN
CLIENT	(EXHIBITS A-1.1, 1.2 & 1.4)
CLIENT	SPEAKER TOWNSHIP - SECTION 31
SECTIONS:	VARIOUS
TOWN	09 NORTH, RANGE 14 EAST
TOWNSHIP	SPEAKER TOWNSHIP
COUNTY	SANILAC COUNTY, MICHIGAN
DATE	07/30/2025
REVISIONS	
SCALE	0 150 300
	1" = 300 FEET
DR.	MB/GS
CH.	BS
P.M.	BS
BOOK	--
JOB	21003645
SHEET NO.	55

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\31\21003645-MPS-05-SPE-INDY



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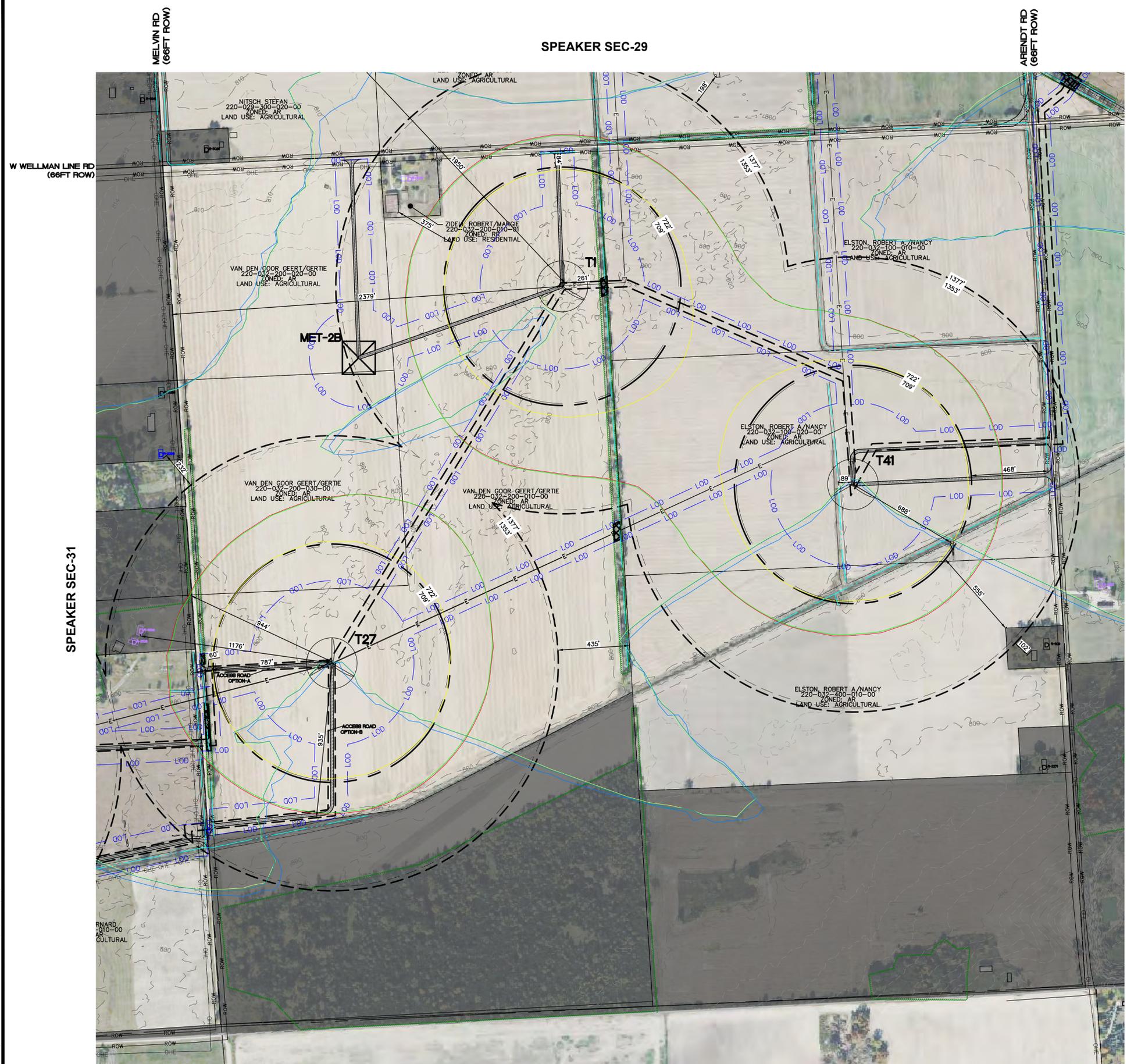
SECTIONS:	VARIOUS
TOWN	09 NORTH, RANGE 14 EAST
TOWNSHIP	SPEAKER TOWNSHIP
COUNTY	SANILAC COUNTY, MICHIGAN

CLIENT	MI ENERGY DEVELOPMENTS, LLC RIVERBEND WIND ENERGY FACILITY APPENDIX A - SITE PLAN (EXHIBITS A-1.1, 1.2 & 1.4) SPEAKER TOWNSHIP - SECTION 32
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DATE	07/30/2025
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REVISIONS	
SCALE	0 150 300
1" = 300 FEET	
DR.	MB/GS
CH.	BS
P.M.	BS
BOOK	--
JOB	21003645
SHEET NO.	56

### SPEAKER SEC-29



SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

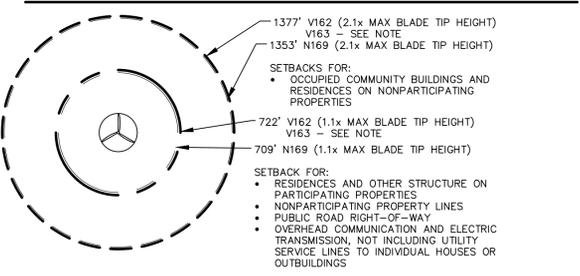
### KEY MAP

NO SCALE

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- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE
- 55 DBA SOUND CONTOUR (VESTAS V163)

### WTG SETBACKS



### FISHER RD (66FT ROW)

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**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**

### BROCKWAY TOWNSHIP

SPEAKER SEC-31

SPEAKER SEC-33

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-05-SPE-05

SPEAKER SEC-28

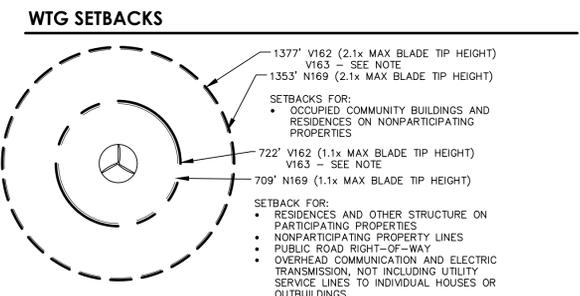


SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

KEY MAP

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NO SCALE

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- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE
- 55 DBA SOUND CONTOUR (VESTAS V163)



FISHER RD (66FT ROW)

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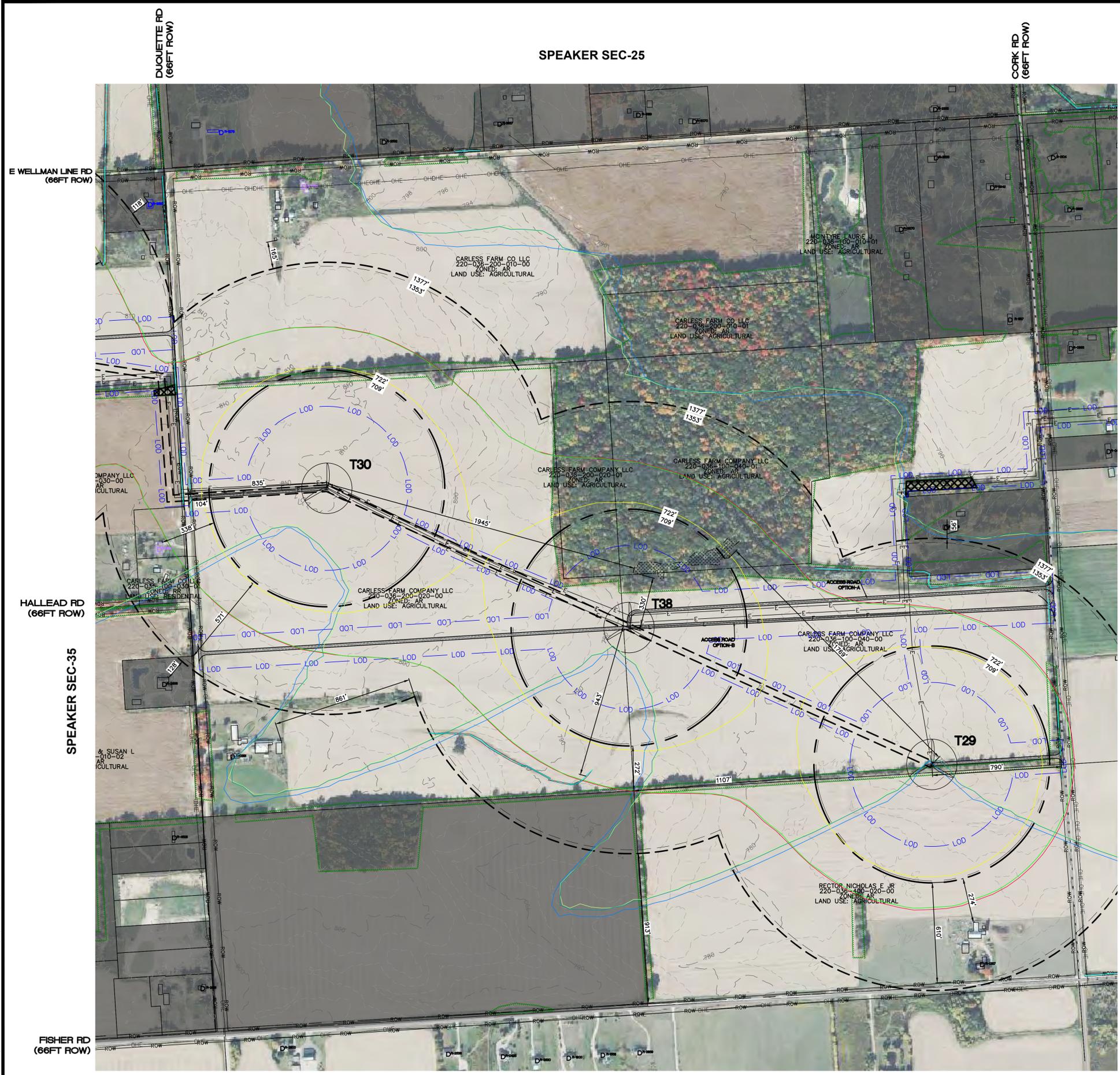
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TWO TOWNE SQUARE, SUITE 700  
SOUTHFIELD, MI 48076  
248.447.2600

CLIENT	MI ENERGY DEVELOPMENTS, LLC
PROJECT	RIVERBEND WIND ENERGY FACILITY APPENDIX A - SITE PLAN (EXHIBITS A-1.1, 1.2 & 1.4)
SECTION	SPEAKER TOWNSHIP - SECTION 33
DATE	07/30/2025
REVISIONS	
SCALE	1" = 300 FEET
DR. MB/GS	CH. BS
P.M. BS	
BOOK	--
JOB	21003645
SHEET NO.	57

CAD FILE: \\AN\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPSC-05-SPE-ANDY



SPEAKER SEC-25



KEY MAP

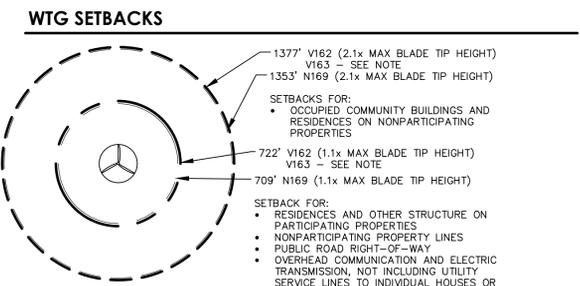
NO SCALE

SPE-06	SPE-05	SPE-04	SPE-03	SPE-02	SPE-01
SPE-07	SPE-08	SPE-09	SPE-10	SPE-11	SPE-12
SPE-18	SPE-17	SPE-16	SPE-15	SPE-14	SPE-13
SPE-19	SPE-20	SPE-21	SPE-22	SPE-23	SPE-24
SPE-30	SPE-29	SPE-28	SPE-27	SPE-26	SPE-25
SPE-31	SPE-32	SPE-33	SPE-34	SPE-35	SPE-36

LEGEND

NO SCALE

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**PRELIMINARY PLANS - NOT FOR CONSTRUCTION**



FREMONT TOWNSHIP

BROCKWAY TOWNSHIP





\\\AN\PROJECTS\DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-07-ELK-INDY.CAD  
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E PECK RD (66FT ROW)

E SHERIDAN LINE RD (66FT ROW)

ELK SEC-34

ELK SEC-26

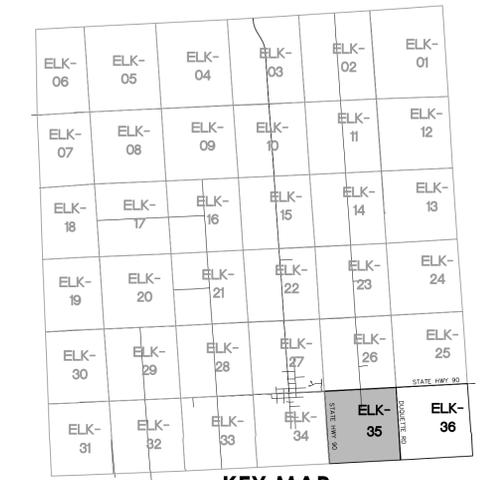
DUQUETTE RD (66FT ROW)



SPEAKER TOWNSHIP

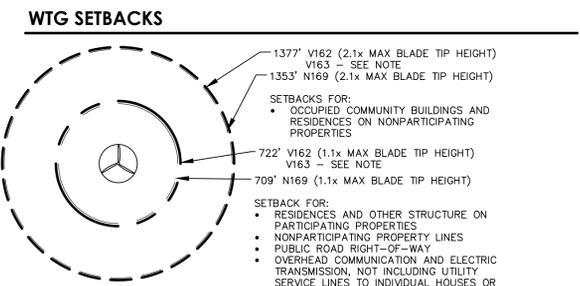


ELK SEC-36



**LEGEND**

	EXISTING STRUCTURE
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	EXISTING OCCUPIED DWELLING (SURVEYED)
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SOUTHFIELD, MI 48076  
248.447.2600

CLIENT	MI ENERGY DEVELOPMENTS, LLC
SECTION:	VARIOUS
DATE	07/30/2025
PROJECT:	RIVERBEND WIND ENERGY FACILITY APPENDIX A - SITE PLAN (EXHIBITS A-1.1, 1.2 & 1.4)
TOWN:	TOWN 10 NORTH, RANGE 14 EAST
COUNTY:	SANILAC COUNTY, MICHIGAN
SECTION:	ELK TOWNSHIP
SECTION:	ELK TOWNSHIP - SECTION 35
SCALE:	1" = 300 FEET
DR. MB/GS   CH. BS	
BOOK	--
JOB	21003645
SHEET NO.	62



Know what's below.

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 SOUTHFIELD, MI 48076  
 248.447.2600

SECTIONS: VARIOUS
TOWN 10 NORTH, RANGE 14 EAST
ELK TOWNSHIP
SANILAC COUNTY, MICHIGAN

MI ENERGY DEVELOPMENTS, LLC  
 RIVERBEND WIND ENERGY FACILITY  
 APPENDIX A - SITE PLAN  
 (EXHIBITS A-1.1, 1.2 & 1.4)  
 ELK TOWNSHIP - SECTION 36

CLIENT: MI ENERGY DEVELOPMENTS, LLC  
 DATE: 07/30/2025

REVISIONS
SCALE 0 150 300
1" = 300 FEET
DR. MB/GS CH. BS
BOOK --
JOB 21003645
SHEET NO. 63

ELK SEC-25

DUQUETTE RD (66FT ROW)

E PECK RD (66FT ROW)

ELK SEC-35

E SHERIDAN LINE RD (66FT ROW)



SPEAKER TOWNSHIP



BUEL TOWNSHIP

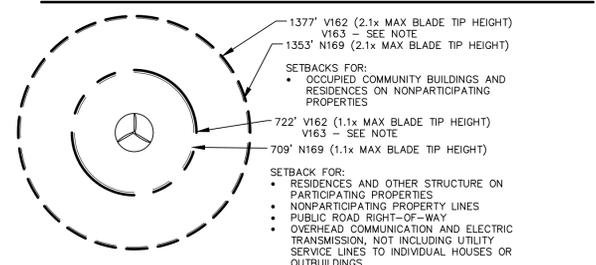
ELK-06	ELK-05	ELK-04	ELK-03	ELK-02	ELK-01
ELK-07	ELK-08	ELK-09	ELK-10	ELK-11	ELK-12
ELK-18	ELK-17	ELK-16	ELK-15	ELK-14	ELK-13
ELK-19	ELK-20	ELK-21	ELK-22	ELK-23	ELK-24
ELK-30	ELK-29	ELK-28	ELK-27	ELK-26	ELK-25
ELK-31	ELK-32	ELK-33	ELK-34	ELK-35	ELK-36

KEY MAP NO SCALE

LEGEND

- EXISTING STRUCTURE
- EXISTING OCCUPIED DWELLING
- EXISTING OCCUPIED DWELLING (SURVEYED)
- EXISTING OCCUPIED DWELLING - NON-PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING OCCUPIED DWELLING - PARTICIPATING - SHADOW FLICKER MITIGATION
- EXISTING ROAD R.O.W.
- EXISTING RAILROAD
- EXISTING TOWNSHIP LINE
- EXISTING SECTION LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TRANSMISSION LINE
- EXISTING TREE LINE
- EXISTING PARCEL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING WATERCOURSE
- EXISTING WATERBODY
- EXISTING WETLAND
- NON-PARTICIPATING PARCEL
- PROPOSED FENCE (SUBSTATION)
- PROPOSED COLLECTION LINE ROUTE (TO BE BURIED NO LESS THAN 4FT)
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED CRANWALK
- PROPOSED ACCESS ROAD GRAVEL
- PROPOSED TREE CLEARING
- PROPOSED MET TOWER
- EXISTING COUNTY ROAD
- PROPOSED GRAVEL ACCESS DRIVE (PERMANENT FOR PLANT OPERATIONS)
- PROPOSED WTG (WIND TURBINE GENERATOR)
- MAX BLADE TIP HEIGHT: 200.0 M (656 FT) (VESTAS V162 - 6.0, 6.8 & 7.2 MW)
- 196.5 M (644 FT) (NORDEX N169)
- 195.5 M (655 FT) (VESTAS V163)
- 30-HOUR SHADOW FLICKER (NORDEX N169)
- 30-HOUR SHADOW FLICKER (VESTAS V162)
- 30-HOUR SHADOW FLICKER (VESTAS V163)
- 55 DBA SOUND CONTOUR (NORDEX N169)
- 55 DBA SOUND CONTOUR (VESTAS V162)
- 7.2 MW - SEE NOTE)
- 55 DBA SOUND CONTOUR (VESTAS V163)

WTG SETBACKS



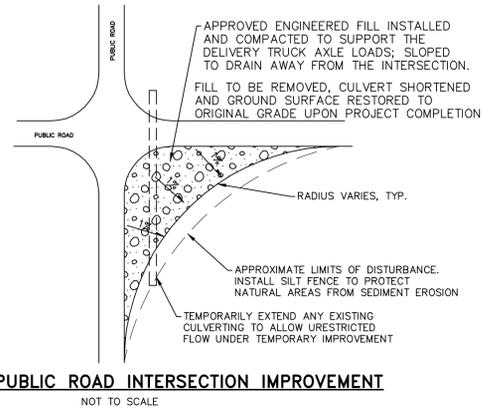
NOTES:

- ELECTRICAL COLLECTION LINES AND ACCESS ROADS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE PER FINAL DESIGN AND LANDOWNER FEEDBACK.
- ONLY ONE ACCESS ROAD WILL BE CONSTRUCTED AT EACH TURBINE.
- O&M FACILITY, SUBSTATION, SWITCHING STATION & LAYDOWN YARDS ARE REPRESENTATIVE LOCATIONS. DIMENSIONS AND LAYOUT WILL BE DETERMINED DURING FINAL DESIGN.
- FOR VESTAS V162, SOUND CONTOURS ARE SHOWN FOR THE WORST CASE SCENARIO (7.2 MW). THE CONTOURS FOR THE OTHER SCENARIOS ARE WITHIN THE LIMITS OF THE DISPLAYED CONTOUR.
- THE PROJECT IS USING THE SAME SETBACKS FOR THE V162 AND V163. IF UTILIZED THE V163 WOULD ONLY HAVE SETBACKS OF 1375' AND 720' RESPECTIVELY.

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

\\NAV\PROJECTS\DATA\SHARRARD\PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SETS\MPS\21003645-MPS-07-ELK-INDRWS.rvt/2025.114.MB.SANILAC.MXD

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**TYPICAL PUBLIC ROAD INTERSECTION IMPROVEMENT**

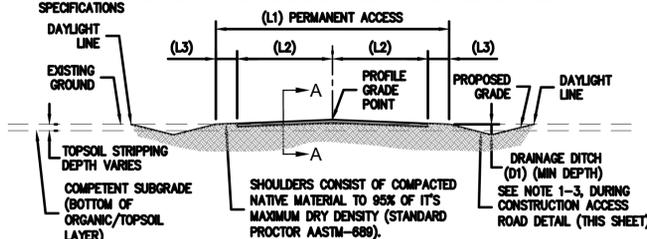
- NOTES:
- IMPROVEMENT TO BE CONSTRUCTED IN COMPLIANCE WITH ANY INTERSECTION SPECIFIC DOT PERMIT REQUIREMENTS.
  - ANY SIGNAGE RELOCATION TO BE DONE IN COMPLIANCE WITH ANY SPECIFIC DOT AND COUNTY ENGINEER REQUIREMENTS.
  - ANY UTILITY REMOVAL, RELOCATION OR BURIAL SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY.

**CONSTRUCTION NOTES**

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL MICHIGAN ONE-CALL (811) AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK NATURAL OR MANMADE DRAINAGE SWALES CAUSING RAINWATER TO POND.
- THE CONTRACTOR SHALL INSTALL DRIVE CULVERTS AS NECESSARY TO INSURE POSITIVE DRAINAGE AROUND THE PROPOSED ACCESS ROADS.
- EXISTING CULVERTS AND DRAIN TILES SHALL BE EXTENDED, REROUTED, OR DIRECTLY CONNECTED TO PROPOSED ACCESS ROAD CULVERTS AS NECESSARY TO ENSURE POSITIVE DRAINAGE. AN ANIMAL GRATE SHALL BE PROVIDED AT THE OUTLET OF EVERY MODIFIED DRAIN TILE.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE POSTED WEIGHT LIMITATIONS ON PUBLIC ROADS AND BRIDGES WITHIN THE PROJECT AREA. IT WILL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NECESSARY PERMITS FROM THE TOWNSHIPS, COUNTY, OR STATE AGENCIES BEFORE UTILIZING THESE PUBLIC ROADS AND BRIDGES FOR HAULING.
- EXISTING FEATURES REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES (MAILBOXES, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS EXISTING.
- CONTRACTOR TO CONTACT THE SANILAC COUNTY ROAD COMMISSION FOR ALL NECESSARY SIGN REMOVALS/RELOCATIONS.
- SOIL EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE SOIL EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE USEPA "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES." THE EXISTING SITE SLOPES ARE INSIGNIFICANT, PRODUCING VERY LITTLE SURFACE RUN-OFF WHICH FLOWS TO EXISTING FARM LAND. CONTRACTOR TO DISTURB AS LITTLE AS POSSIBLE DURING CONSTRUCTION. ALL STOCKPILES ARE TO BE TAPERED FOR FARMLAND PLACEMENT. TOPSOIL SHOULD BE PLACED ADJACENT TO FARM FIELD TO BE TILLED AND USED AS FARMLAND.
- EACH WIND TURBINE SHALL HAVE ONE SIGN NOT TO EXCEED TWO SQUARE FEET POSTED AT THE BASE OF THE TOWER, OR IF THE STRUCTURE IS FENCED, ON THE FENCE. THE SIGN SHALL INCLUDE THE WORDS "WARNING: HIGH VOLTAGE" AND EMERGENCY PHONE NUMBERS.
- ALL DISTURBED BANKS WITHIN COUNTY DRAINS DUE TO CULVERT INSTALLATION MUST BE STABILIZED PER MDT AND COUNTY ROAD/DRAIN COMMISSION SPECIFICATIONS.
- THE DESIGN AND INSTALLATION OF ALL UNDERGROUND ELECTRIC CABLES SHALL MEET ALL NATIONAL, STATE AND LOCAL ELECTRICAL SAFETY CODES.
- REFER TO ELECTRICAL PLANS BY OTHERS FOR SPECIFICATIONS ON ELECTRIC CABLES, CROSS BOXES, JUNCTION CABINETS, ETC. ELECTRIC CABLES AND ASSOCIATED STRUCTURES SHOWN IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND REPRESENT APPROXIMATE CABLE PLACEMENT LOCATIONS.

**ROAD CONSTRUCTION TYPICAL WORKFLOW**

- STAKE CENTERLINE AND CLEARING LIMITS.
- REMOVE AND STOCKPILE EXISTING VEGETATION AND TOPSOIL.
- FORM UNIFORM SUBGRADE FOR WIDTH OF ROAD, SHOULDERS AND SWALES. (MAY REQUIRE MILLING, HAMMERING OR RIPPING. REFER TO GEOTECHNICAL REPORT FOR CONSTRUCTION RECOMMENDATIONS.)
- SUBGRADE SHALL BE CROWNED 1%-2% CROSS SLOPE (MAX 2%). MIX CEMENT AND COMPACT SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS
- PROOF ROLL SUBGRADE TO SPECIFIED COMPACTION OR PROOF ROLL CRITERIA.
- PLACE AND COMPACT AGGREGATE BASE.
- CLEAR AND STOCKPILE VEGETATION AND TOPSOIL IN THE IMPROVEMENT AREAS.
- FORM UNIFORM SUBGRADE FOR WIDTH OF ROAD AND SHOULDERS FOLLOWING MINIMUM CRITERIA IN THE DETAIL.
- COMPACT AND PROOF ROLL THE PREPARED ROAD BED.
- USE AGGREGATE BASE AS REQUIRED TO FILL POTHOLES, DIPS, OR UNEVEN AREAS IN THE ROAD AND SHOULDERS.
- PLACE AND COMPACT AGGREGATE BASE TO MINIMUM DEPTH.
- PLACE AND COMPACT ADDITIONAL AGGREGATE BASE IF FIELD CONDITIONS REQUIRE TO MEET SPECIFICATIONS



	(L1)	15' - 25'	4.6m - 7.6m
	(L2)	7.5' - 12.5'	2.3m - 3.8m
	(L3)	2'	0.6m
	(D1)	1'	0.3m
	(D2)	SEE NOTE	---
	(D3)	3" MIN.	0.08m

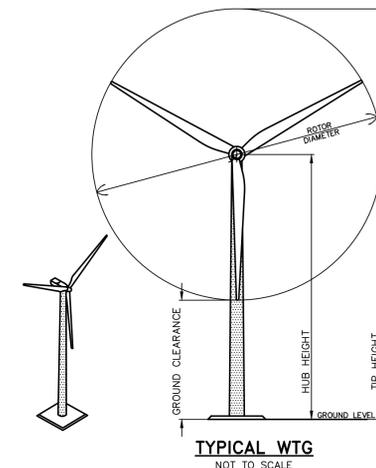
SECTION A-A

MDOT AGGREGATE BASE COURSE

SEE NOTE

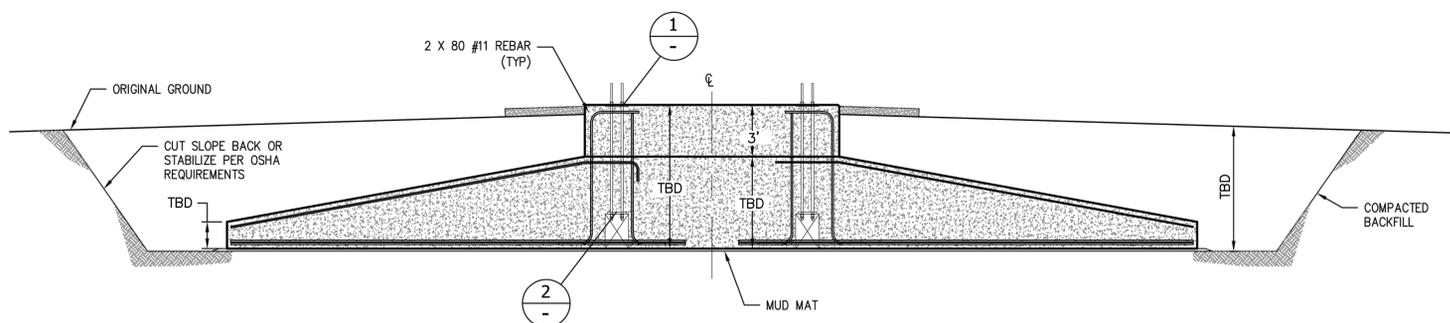
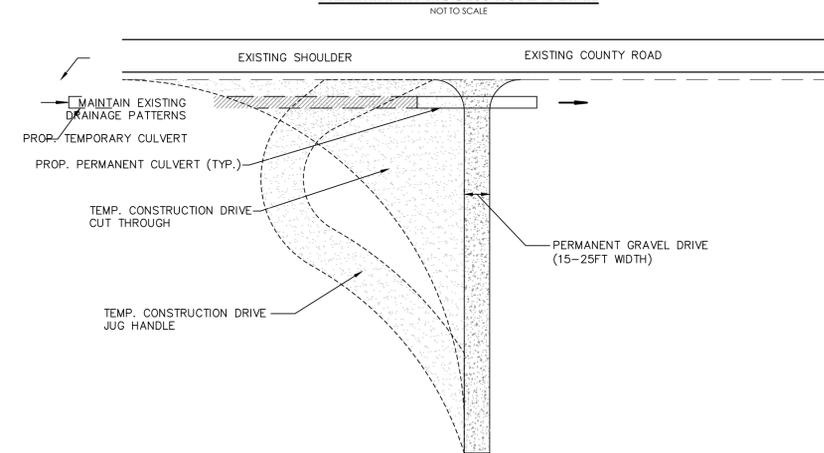
**ACCESS ROAD WITHOUT CRANE WALK**

NOTE: SOIL STABILIZATION SPECIFICATIONS TO BE DETERMINED BY GEO-TECHNICAL ENGINEER.

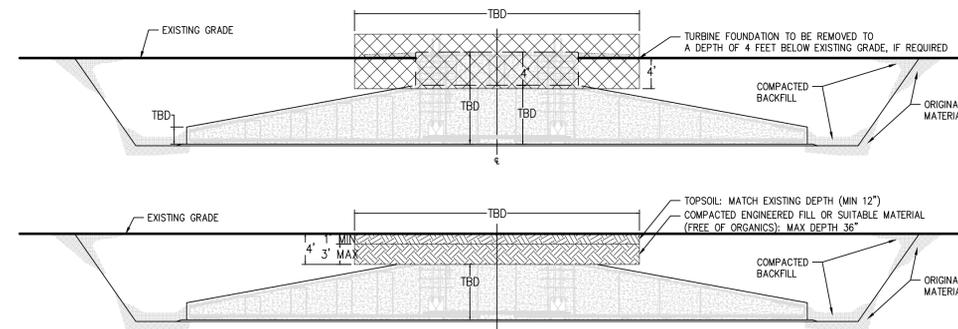


	Hub Height (m)	Hub Height (ft)	Rotor Diameter (m)	Rotor Diameter (ft)	Tip Height (m)	Tip Height (ft)	Swept Area (M <sup>2</sup> )	Swept Area (FT <sup>2</sup> )	Ground Clearance (m)	Ground Clearance (ft)
Nordex N169	112	367	169	554	196.5	645	22,432	241,456	28	92
Vestas V162	119	390	162	531	200	656	20,612	221,866	38	125
Vestas V163	118	387	163	535	199.5	655	20,867	224,611	36.5	120

**PRELIMINARY ACCESS ROAD DETAIL**



**A SECTION: SAMPLE FOUNDATION SECTION AND TYPICAL GRADING**  
NOTE: ONLY PRIMARY REINFORCEMENT IS SHOWN



**FOUNDATION RESTORATION DETAIL**  
NOT TO SCALE

**FOR ILLUSTRATION ONLY - SUBJECT TO CHANGE - NOT FOR CONSTRUCTION**

**811**  
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Call before you dig.

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CLIENT  
MI ENERGY DEVELOPMENTS, LLC  
RIVERBEND WIND ENERGY FACILITY  
APPENDIX J - ALTERNATIVES  
(EXHIBITS A-1.5)  
STANDARD DETAILS

SPEAKER, FREMONT AND ELK TOWNSHIPS  
SANILAC COUNTY, MICHIGAN

DATE  
07/30/2025

REVISIONS

SCALE 0

DR. MB/GS CH. BS  
P.M. BS  
BOOK --  
JOB 21003645  
SHEET NO. 64

CAD FILE: \\VA\PROJECT-DATA\SHARED-PROJECTS\21003645 - LIBERTY POWER RIVERBEND WIND PROJECT\DWG\PLAN SET\MPSC\21003645-MPSC-08-01



Know what's below.

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GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE PLANS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. 2. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER. 3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. 4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED. 5. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. 6. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. 7. ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS. 8. ALL MUD/DIRT/MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAYS OR INTO WATER COURSES SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. 9. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. 10. ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM THE WORK AREA. 11. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED. 12. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS. 13. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURE WHEN REQUIRED. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, STOCKPILES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED. 14. LOW GROUND PRESSURE EQUIPMENT SHALL BE USED TO MINIMIZE LAND DISTURBANCE BETWEEN STRUCTURES. 15. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE SANILAC COUNTY DRAIN COMMISSIONERS. 16. ALL GRADING TO BE PERFORMED AS NOT TO OBSTRUCT UPSTREAM DRAINAGE. 17. SITES WILL BE INSPECTED WEEKLY- ANY AREAS OF OFF-SITE EROSION WILL BE CORRECTED WITHIN 2 BUSINESS DAYS.

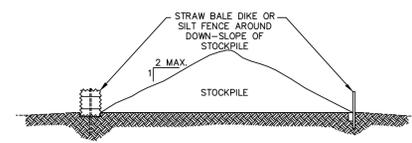
TEMPORARY STABILIZATION

Table with 2 columns: AREA REQUIRING TEMPORARY STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS. Rows include: ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE; FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM; DISTURBED AREAS THAT WILL BE IDLE OVER WINTER.

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THIS CAN INCLUDE AGGREGATE COVER, EROSION CONTROL BLANKETS, TURF REINFORCEMENT MATS, OR OTHER STABILIZATION PRACTICE.

PERMANENT STABILIZATION

Table with 2 columns: AREA REQUIRING PERMANENT STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS. Rows include: ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE; ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE; ANY OTHER AREAS AT FINAL GRADE.

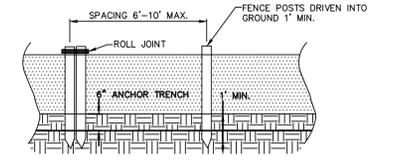


TYPICAL SOIL STOCKPILE DETAIL A

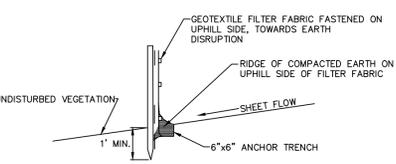
NOTE: NO STOCKPILING SHALL OCCUR WITHIN FLOOD PLAIN LIMITS

PROHIBITED CONSTRUCTION ACTIVITIES

- THE CONTRACTOR SHALL NOT USE CONSTRUCTION ACTIVITIES, PROCEEDINGS, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION ACTIVITIES, PROCEEDINGS OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO: 1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIALS IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER(S) WITHOUT WETLAND AND/OR FLOODPLAIN FILL PERMIT. 2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDOR, TRIBUTARY, WATERS, WETLANDS, OR ANY AREAS OUTSIDE OF THE PROPOSED WORK AREA. 3. PUMPING OF SEDIMENT-LADEN WATER FROM EXCAVATIONS INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS, OR STORM DRAINS. 4. DISCHARGING OF POLLUTANTS SUCH AS CHEMICALS, FUEL, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, AND OTHER HARMFUL WASTE INTO OR ALONGSIDE STREAM, RIVERS, IMPOUNDMENT, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO. 5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW-LINE OF A STREAM. 6. DAMAGING OF VEGETATION OUTSIDE OF THE PROPOSED WORK LIMITS, WITHIN NO-BUILD, TREE PRESERVATION AND GREEN ZONES. 7. DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS SURFACE WATERS, OR ANY OTHER UNSPECIFIED LOCATION WITHOUT A PERMIT. 8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. 9. STORING OF CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED AND APPROVED FOR THE SAID PURPOSE. 10. DISPOSAL OF CHIP WOOD IN SUCH A MANNER THAT WOULD ALLOW CHIP WOOD DECOMPOSITION AND LEACHATE WATER TO FLOW TO ANY SURFACE WATER, STREAM CORRIDOR, OR WETLAND. 11. TRACKING OF MUD AND OTHER CONSTRUCTION RELATED DEBRIS ONTO ROADWAY OR FLUSHING SEDIMENT FROM ROADWAY WITH WATER.



SILT FENCE DETAIL



SILT FENCE DETAIL

MI ENERGY DEVELOPMENTS, LLC RIVERBEND WIND ENERGY FACILITY APPENDIX J - ALTERNATIVES (EXHIBITS A-1.5) STANDARD DETAILS SANILAC COUNTY, MICHIGAN

CLIENT MI ENERGY DEVELOPMENTS, LLC RIVERBEND WIND ENERGY FACILITY APPENDIX J - ALTERNATIVES (EXHIBITS A-1.5) STANDARD DETAILS

DATE 07/30/2025

Table with 2 columns: REVISIONS, SCALE. Includes a scale bar and a table for revisions.

DR. MB/GS | CH. BS P.M. BS BOOK -- JOB 21003645 SHEET NO. 65

PRELIMINARY PLANS - NOT FOR CONSTRUCTION