

REQUEST FOR CONDITIONAL USE PERMIT

COMPLETE ALL FIELDS AND ATTACH CHECKLIST - PLEASE PRINT LEGIBLY

\$250 NON-REFUNDABLE APPLICATION FEE + COSTS

* 1. Frank Martin
Print Name (Property Owner) Print Name (Potential Buyer/Lessee/Representative)
5155 E Kemper Rd
Address Address
Hallsville, Mo 65255 573-289-4493
City - State - Zip PHONE City - State - Zip PHONE
frank@jpdaz.com
EMAIL ADDRESS EMAIL ADDRESS

* 2. LEGAL DESCRIPTION of land for which Conditional Use Permit application is made, including Section, Township and Range. Please attach copy of the current ownership deed and, if available, a survey.

PARCEL NUMBER(S): 0750022000030001 S-T-R: 111

* 3. Present zoning A1 Current land use Ag and Residential
* 4. Lot/tract size 138.88 Acres/Sq. Ft. 5. Adjacent Zoning A1-A2

* 6. Classification and proposed use for conditional use: (Please be as detailed as possible in describing the proposed use. Attach additional page(s) if necessary)

renewable on-farm electric generation by small-scale
wind turbine

* 7. Reason and justification for the request being submitted: (Attach additional page(s) if necessary)

To allow on-farm electric generation from a wind turbine
that has a 100 foot tower and 15 foot blades

* 8. Approximate size, use and location of all structures:

Existing: 8 grain bins, 4 hog houses, 2 barns, 1 machine shed, 1 primary
Proposed: wind turbine residence and 2 rentals

* 9. Type of wastewater system: N/A lagoon

10. Additional fees to be paid by: Frank Martin 5155 E Kemper Rd 573-289-4493
Name Address Phone Number
Hallsville, Mo 65255

The above information is true and correct to the best of my knowledge. I have completed and submitted the required checklist and I understand that if I have not submitted the required documentation by the specified deadline this application will be invalidated and I may be required to re-apply.

Frank Martin 6-18-25
Owner's Signature Date Potential Buyer's/Lessee's Signature Date

NOTE: Please attach any additional documentation, sketches, permits, names and addresses as required as minimum information. Failure to provide any of the required material(s) will result in the invalidation of this application.

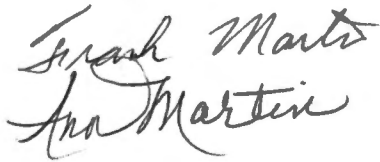
Received by [Signature] Date 6/20/2020
Boone County Resource Management

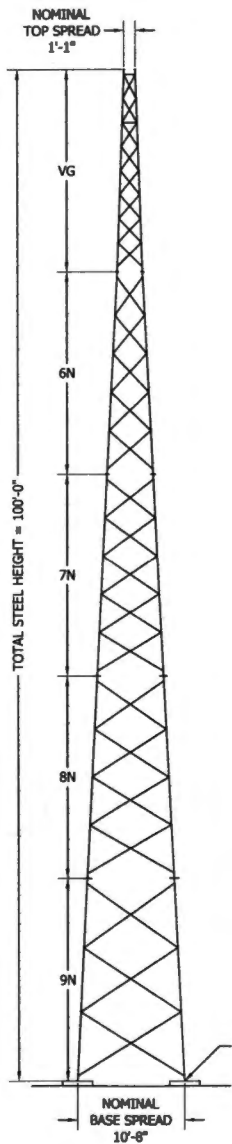
Dear Boone County Planning and Zoning Commission,

Additional information about the wind turbine is that it is located in the central part of our farm. The closest residence that is not part of our farm is about one half mile away. Because of that distance, the wind turbine will have no effect on adjacent landowners or their property values. Also, Kemper road will not be affected in any way.

Sincerely,

Frank & Ann Martin

Handwritten signatures of Frank and Ann Martin. The signature for Frank Martin is written above the signature for Ann Martin. Both are in a cursive script.



(4) ANCHOR BOLTS (12 TOTAL)
1" DIA. X 48" LONG
ASTM F1554 Gr. 105

GENERAL NOTES

1. ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-H UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
2. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-H AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
3. TURBINES, APPURTENANCES, AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
4. STEP BOLTS WITH SAFETY CLIMB SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
5. TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
6. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-H, "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES".
7. THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
8. FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
9. STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
10. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
11. STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-H.
12. ALL HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED FOR DOUBLE ANGLE MEMBERS, ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
13. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
14. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
15. DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-H.
16. DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
17. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.
18. THE DESIGN OF REFERENCED STRUCTURE HAS BEEN BASED ON EQUIVALENT STATIC LOADING CONDITIONS PROVIDED BY THE TURBINE MANUFACTURER. THE TURBINE MANUFACTURER MUST APPROVE THE DESIGN FOR PROPER PERFORMANCE WITH THE INTENDED TURBINE CONSIDERING AS A MINIMUM, FATIGUE, HARMONICS, AND DYNAMIC LOADING. ROHN DOES NOT ACCEPT RESPONSIBILITY AND PROVIDES NO WARRANTY FOR FATIGUE, HARMONICS, OR DYNAMIC LOADING RELATED ISSUE.
19. LATERAL THRUST AND DEFLECTION CRITERIA PROVIDED BY BERGEY WINDPOWER INC. FOR USE AS A COMPONENT OF A 15KW WIND SYSTEM.
20. STRUCTURE HAS BEEN DESIGNED TO DEFLECT NO MORE THAN 12.0" AT 60 MPH WIND AND 30" AT 140 MPH. TOWER DESIGN IS BASED ON STATIC LOADING ONLY. DYNAMIC AND HARMONIC CONDITIONS HAVE NOT BEEN CONSIDERED.

MAXIMUM FACTORED REACTIONS	
COMPRESSION PER LEG =	88.6 KIPS
TENSION PER LEG =	77.6 KIPS
SHEAR PER LEG =	7.8 KIPS
TOTAL SHEAR =	12.7 KIPS
TOTAL O.T.M =	788.7 FT-KIPS



TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:

RISK CATEGORY: II
BASIC WIND SPEED (NO ICE): 140 MPH PER ASCE 7-16
BASIC WIND SPEED (W/ICE): 40 MPH PER ASCE 7-16
DESIGN ICE THICKNESS: 2.00 INCHES PER ASCE 7-16
EXPOSURE CATEGORY: C
TOPOGRAPHIC METHOD: 1, CATEGORY: 1

THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

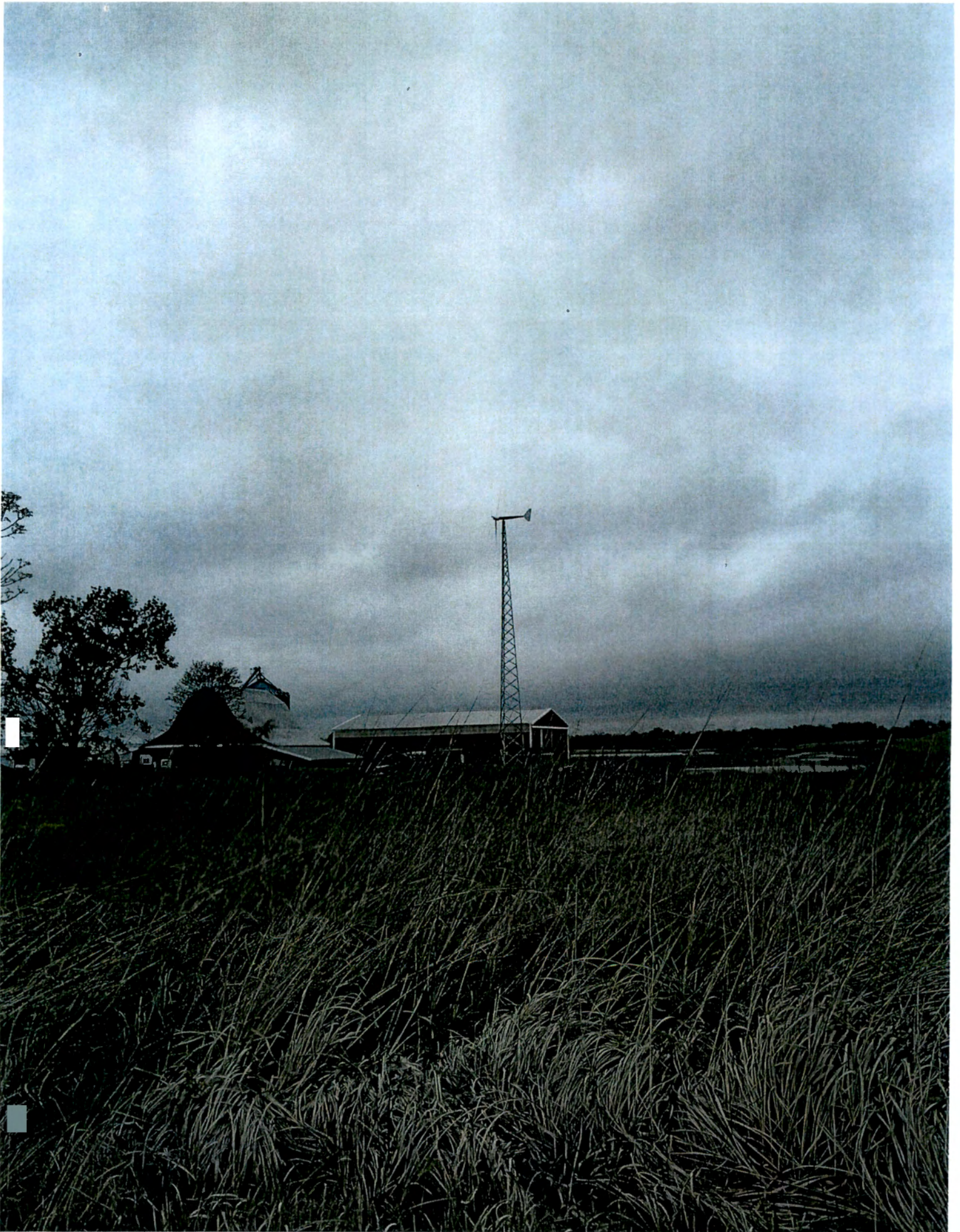
ELEVATION (FT)	ANTENNA LOADING	LINE SIZE (NOM)
TOP	BERGEY 15 KW TURBINE ROTOR DIAMETER: 31.54 FT MAX TURBINE THRUST: 2.5 K EPA: 67.82 SQFT WEIGHT OF ROTOR & TURBINE: 2.75 K	(2) 1"
95	INVERTER	

SECTION MAIN MEMBER SCHEDULE

SECTION	LEGS	DIAGONALS	HORIZONTALS
VG	PIPE 2.875x0.203	L1 1/2x1 1/2x3/16 (8)	L1 3/4x1 3/4x3/16 (1)
6N	PIPE 2.875x0.203	L1 1/2x1 1/2x1/8 (5)	N/A
7N	PIPE 2.875x0.276	L1 1/2x1 1/2x1/8 (5)	N/A
8N	PIPE 3.500x0.300	L1 3/4x1 3/4x1/8 (4)	N/A
9N	PIPE 4x0.318	L2 1/2x2 1/2x3/16 (3)	N/A

NOTE:
SECTION NUMBERS ARE FOR REFERENCE ONLY.
FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.
THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO.		15KW100	
REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP
<p>PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN</p>			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
BERGEY WINDPOWER DESIGN PROFILE 100 FT SSV TOWER GENERIC			
DWN:	AS	CHKD:	AS
ENGR:	AS	DATE:	10/25/2022
PRJ. ENGR:	AS	SHEET #:	1 OF 1
PRJ. MANGR:	AS	REV:	0
DRAWING NO:		15KW100-01-D1	



Planning Information Viewer Map

Prepared by the Boone County Resource Management (573) 886-4330



Owner: MARTIN FRANK ALLEN & ELIZABETH ANN REVOCABLE

Address: 5155 E KEMPER RD

Parcel Number: 0750022000030001

*proposed location
for wind turbine*

Boone County Resource Management

0 400 ft

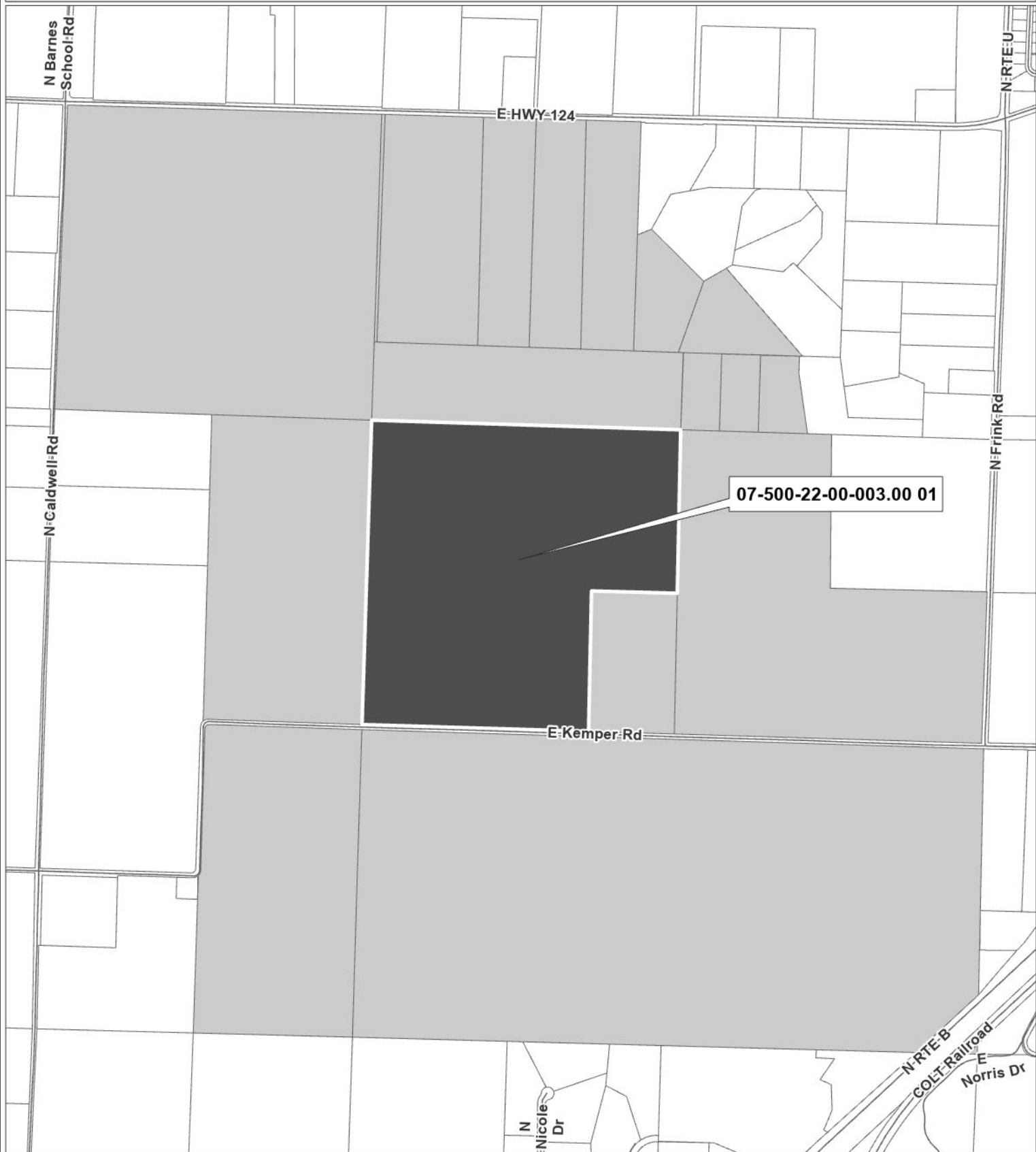
Boone County Assessor's Office - Orthophoto: 2023
Map Generated: 6/5/2025 2:13 PM CDT

ATTENTION!!
DISCLAIMER: READ CAREFULLY: These maps were prepared for the inventory of real property based on the utilization of deeds, plans, and/or supportive data. In addition, map files are frequently changed to reflect changes in boundaries, lot lines and other geographic features resulting from changes in ownership, development and other causes. The existence, dimension, and location of features, as well as other information, should not be relied upon for any purpose without actual field verification. The County of Boone makes no warranty of any kind concerning the completeness or accuracy of information contained on these maps and assumes no liability or responsibility for the use or reuse of these maps by persons not affiliated with Boone County. Use of these maps by any person not affiliated with Boone County constitutes agreement by the user to assume full liability and responsibility for the verification of the accuracy of information shown on these maps.



Parcel Properties within 1,000 ft

Selection for Parcel 07-500-22-00-003.00 01



- Roads
- Selected Parcel
- Parcels within 1,000ft
- Parcel Boundaries

0 900 1,800
Feet

Date: 6/30/2025

Parcel Data Source
Boone County Assessor

Created By:
Boone County
Resource Management

