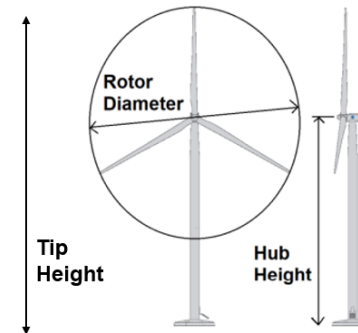
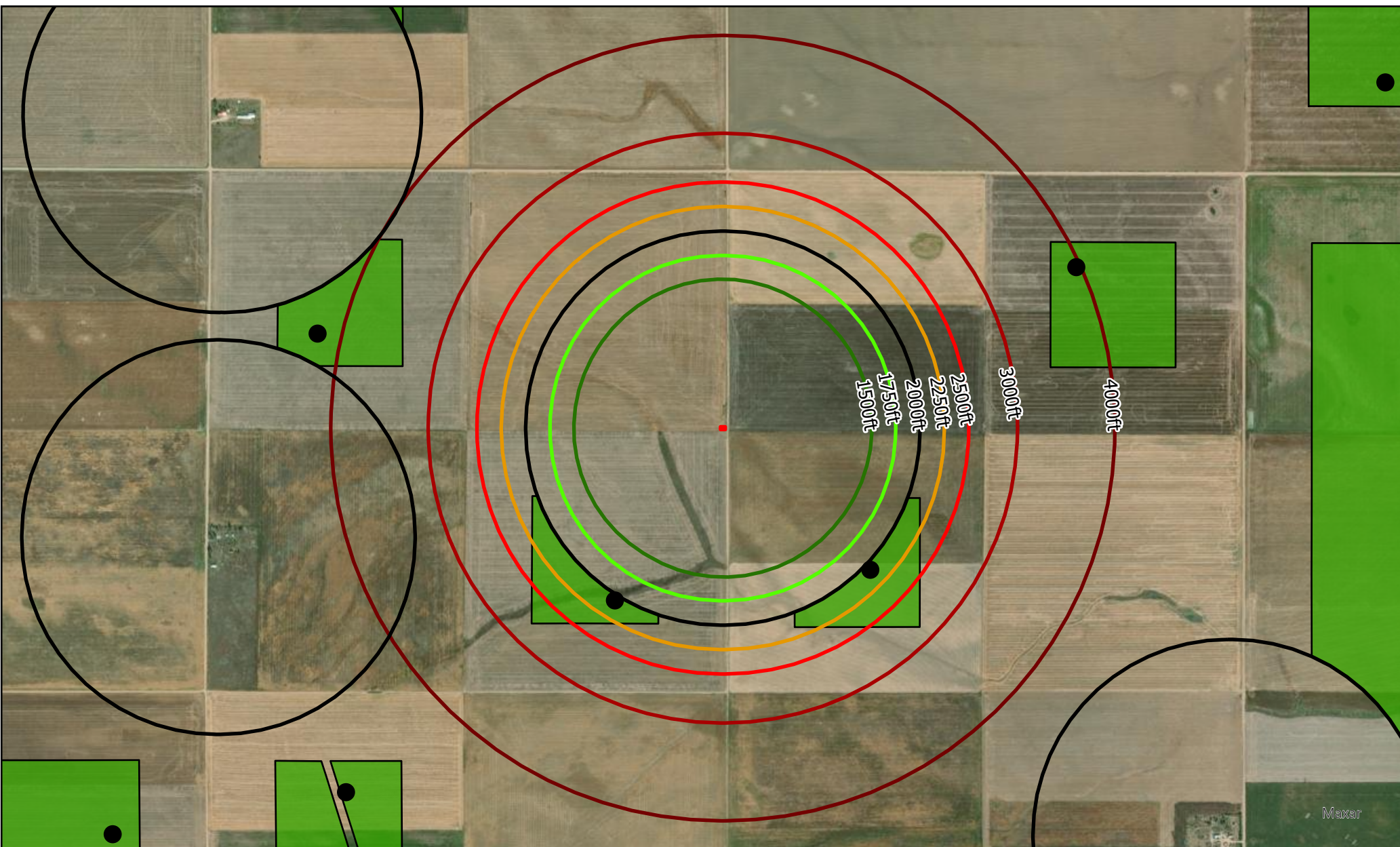


Demonstration of Setback Distances

Turbine Component	meters	feet		
Tower Hub Height	104	341		
Rotor Diameter	163	535		
Maximum Tower Height	185.5	608.6		
V163 4.5 MW @ 104m HH	Tip Height	1.1x	1.5x	2x
Height (ft)	608.6	669.5	912.9	1,217.20



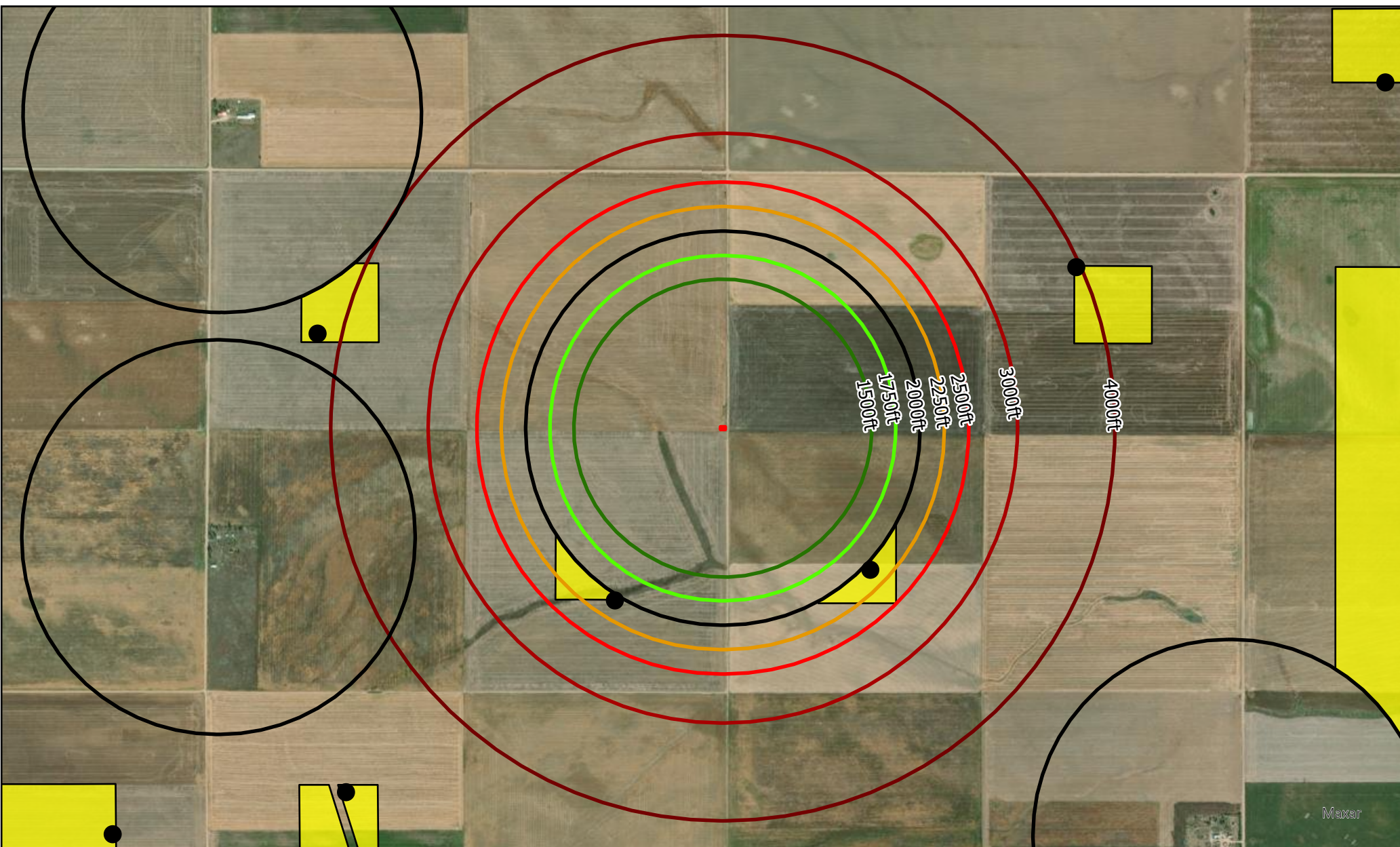
Proposal for Reduction of Setback				
	Sedgwick County "Minimum Setback" per Section 13-105.C3	Applicant's Reduction of Setback Request	Logan County Wind Regulations (5/2/2023)	Phillips County Wind Regulations (11/18/2022)
Setback of Wind Turbine from above-ground public electric power lines or communication lines	2 times system height	1.5 times system height	1.5 Times Tip Height	1.1 times system height or 500 feet, whichever is greater
Setback of Wind Turbine from public road or highway or railroad	2 times system height	1.5 times system height	1.5 Times Tip Height	1.1 times system height or 500 feet, whichever is greater
Setback of Wind Turbine from public road or highway with ADT of 7,000 or more	2 times system height or 420 feet, whichever is greater	1.5 times system height or 420 feet, whichever is greater.	1.5 Times Tip Height	1.1 times system height or 800 feet, whichever is greater
Setback from all other property lines, unless appropriate easements are secured from adjacent property owners or other acceptable mitigation is approved by the Board	2 times system height or 1000 feet, whichever is greater.	1.5 times system height or 1000 feet, whichever is greater.	No Minimum Setback	1.1 times system height or 500 feet, whichever is greater



Industry Standard: 1.1 x Tip Height

Green is the build-able area after setting back 1.1 x tip height from **property lines, roads, & above ground lines** & 2,000' from homes. 1.1 x tip height is the safety setback commonly used in wind development across the US & CO.

Legend		Disclaimer: Example house is for demonstrative purposes only.
● Example Turbine Locations	2250ft Setback	
Example House	2500ft Setback	
1500ft Setback	3000ft Setback	
1750ft Setback	4000ft Setback	
2000ft Setback	Industry Standard Buildable Area	

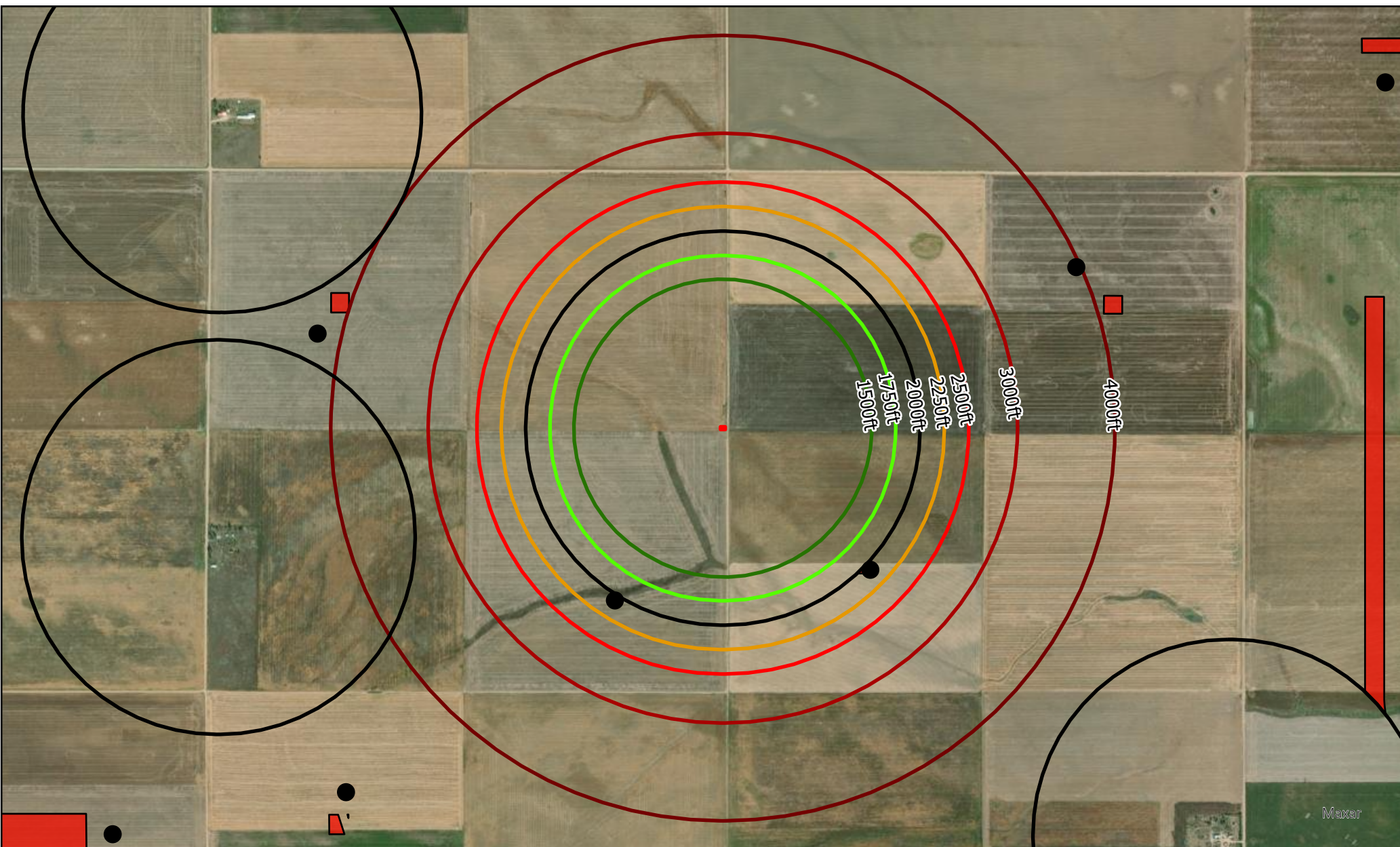


Application Standard: 1.5 x Tip Height

Yellow is the build-able area remaining after setting back 1.5 x tip height from **property lines, roads, & above ground lines** & 2,000' from off site inhabited structures. These are the setbacks used in the Overland Pass Energy East permit application

Legend	
● Example Turbine Locations	2250ft Setback
Example House	2500ft Setback
1500ft Setback	3000ft Setback
1750ft Setback	4000ft Setback
2000ft Setback	1.5x Tip Height Buildable Area

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di fdcgYg'cb'ml



Section 13 Sedgwick County Setback: 2 x Tip Height

Red is the build-able area remaining after setting back 2 x tip height from **property lines, roads, & above ground lines** & 2,000' from off site inhabited structures. Build-able area is very limited, and in some parcels, eliminated.

Legend	
● Example Turbine Locations	2250ft Setback
□ Example House	2500ft Setback
□ 1500ft Setback	3000ft Setback
□ 1750ft Setback	4000ft Setback
□ 2000ft Setback	Sec. 13 Buildable Area

Disclaimer:
Example house is for demonstrative purposes only.