

Opportunities and Constraints

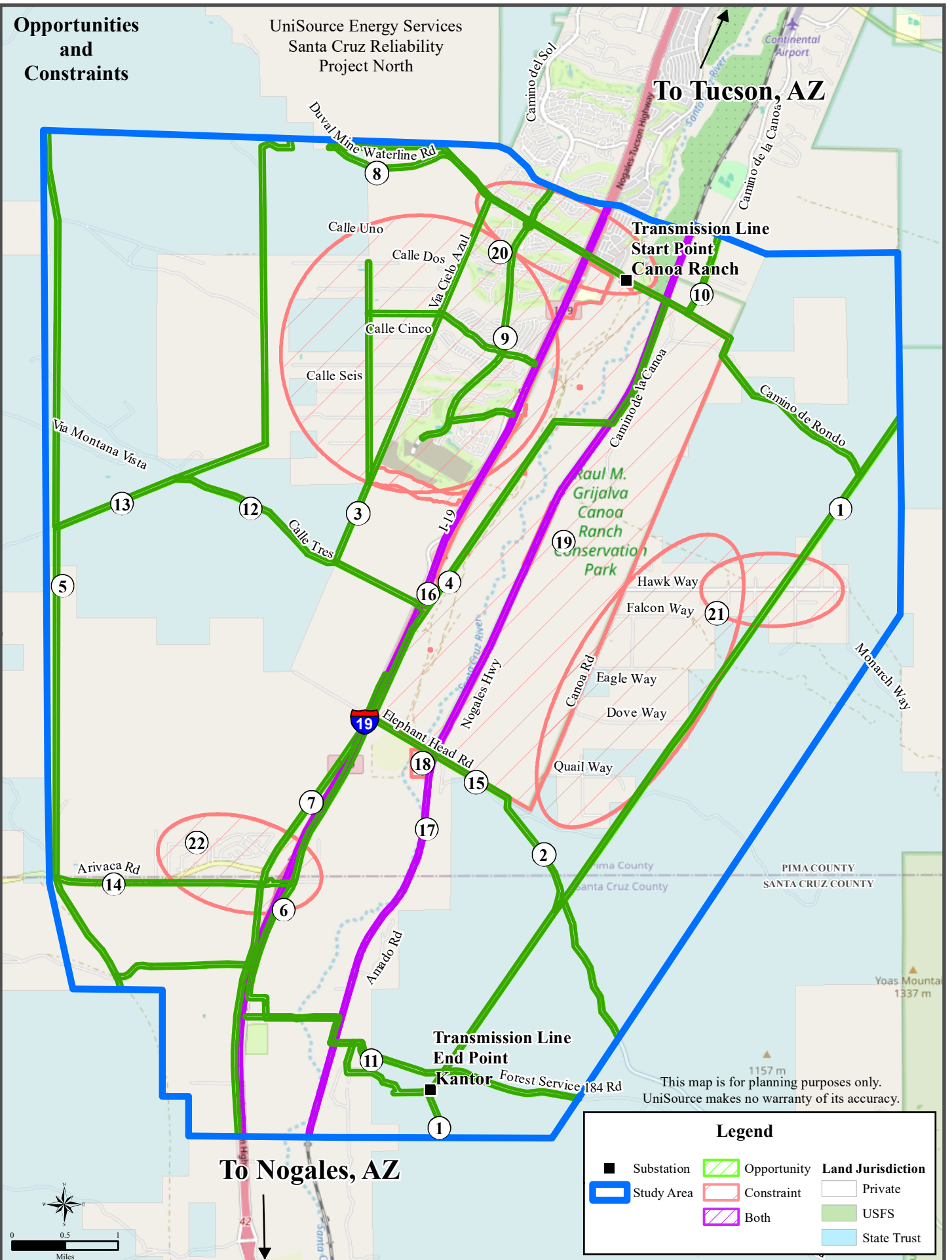
UniSource Energy Services
Santa Cruz Reliability
Project North

To Tucson, AZ

Transmission Line
Start Point
Canoa Ranch

Transmission Line
End Point
Kantor

To Nogales, AZ



This map is for planning purposes only.
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Legend					
	Substation		Opportunity	Land Jurisdiction	
	Study Area		Constraint		Private
	Both		USFS		State Trust

Opportunities & Constraints

Please scan here to comment about the project. Or visit www.uesaz.com/santa-cruz-reliability to learn more.



#	Name	Opportunity/Constraint	Criteria Category	Rationale
1	Vail to Kantor 138kV Transmission Line Alignment	Opportunity	Linear ROW/Alignment; Existing infrastructure	Leverages existing infrastructure, minimizing environmental impact.
2	Kantor Sub to West 46kV Sub-transmission Line Alignment	Opportunity	Linear ROW/Alignment; Existing infrastructure	Utilizes existing infrastructure but requires upgrades, balancing opportunity with engineering challenges.
3	46kV Sub-transmission Lines west of I-19	Opportunity	Linear ROW/Alignment; Existing infrastructure	Utilizes established corridors for efficient expansion.
4	46kV Sub-transmission Lines east of I-19	Opportunity	Linear ROW/Alignment; Existing infrastructure	Utilizes established corridors for efficient expansion.
5	El Paso Pipeline (Gas)	Opportunity	Linear ROW/Alignment	Provides a pre-established corridor, reducing environmental impact.
6	E. I-19 Frontage Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
7	W. I-19 Frontage Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
8	W. Duval Mine Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
9	S. Camino del Sol to Canoa Ranch Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
10	Camina de la Canoa to South Canoa Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
11	Forest Service 184 Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
12	W. Calle Tres	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
13	Via Monte Vista	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Facilitates access and construction logistics through existing linear ROW.
14	West Arivaca Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Provides access through existing linear ROW.
15	Elephant Head Rd. to Mount Hopkins Rd.	Opportunity	Paved/Unpaved; Linear ROW/Alignment	Provides access through existing linear ROW within undeveloped land.
16	Interstate 19	Both	Op: Linear ROW/Alignment Con: Conflicting Infrastructure	Offers logistic advantages through an existing linear ROW but presents infrastructure conflicts.
17	Union Pacific Railroad Alignment	Both	Op: Linear ROW/Alignment Con: Conflicting Infrastructure	Provides a potential corridor with engineering and safety challenges due to crossing requirements.
18	Historic Canoa Ranch	Constraint	Historically significant	Protected status necessitates routing alternatives or mitigation measures to avoid impact.
19	Canoa Ranch Conservation Park	Constraint	Environmentally sensitive land	Environmental sensitivities limit development options, prioritizing habitat preservation.
20	Green Valley Community	Constraint	Developed land	Developed land with medium density residential areas.
21	Elephant Head Community	Constraint	Developed land	Developed land with medium density residential areas necessitates community impact mitigation.
22	Amado Community	Constraint	Developed land	Developed land with low density residential areas.