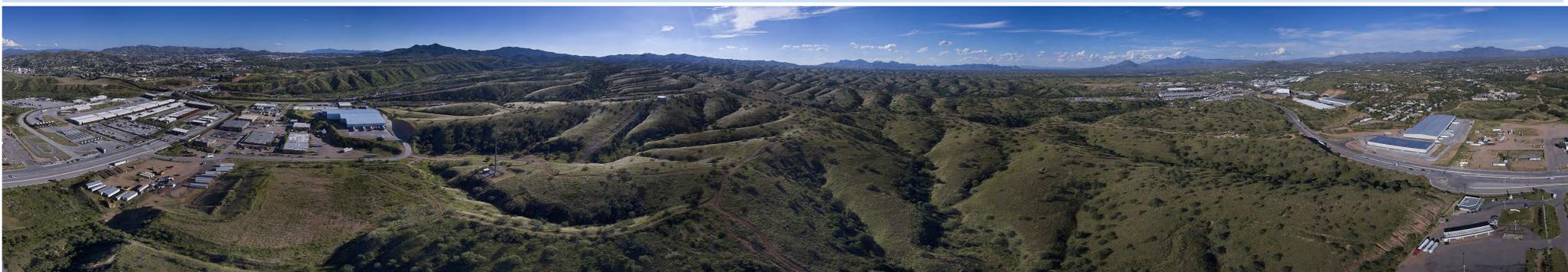




**Welcome to the
Nogales Tap to Kantor
Upgrade Project
and the
Nogales Interconnection Project
Public Meeting**

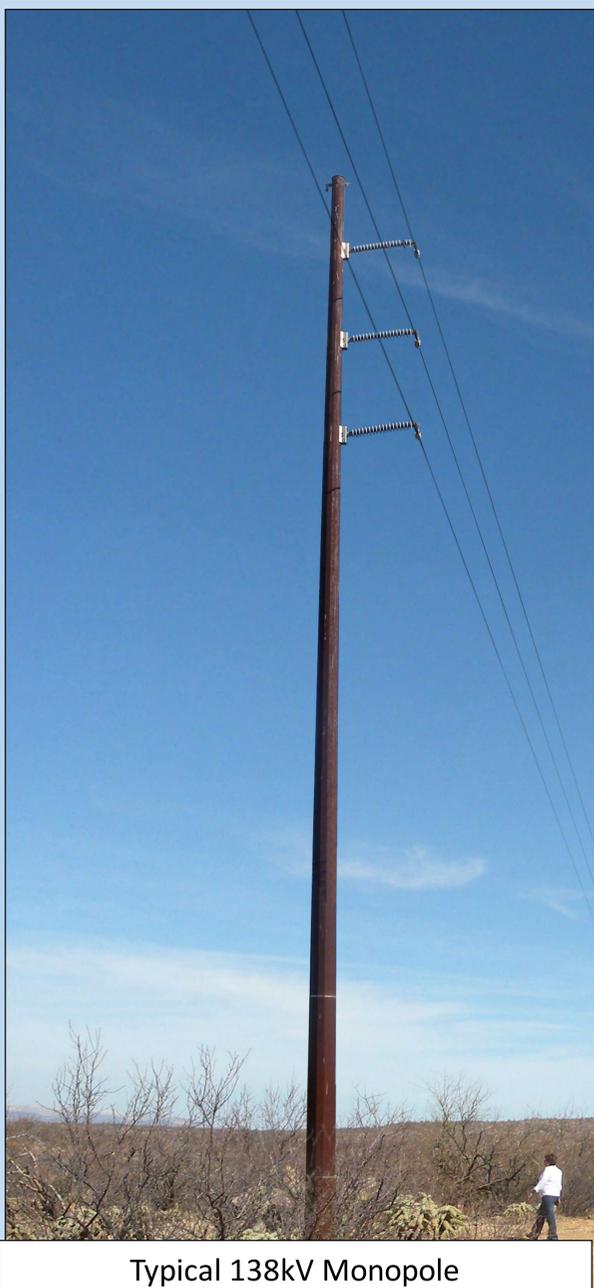
Please Sign In



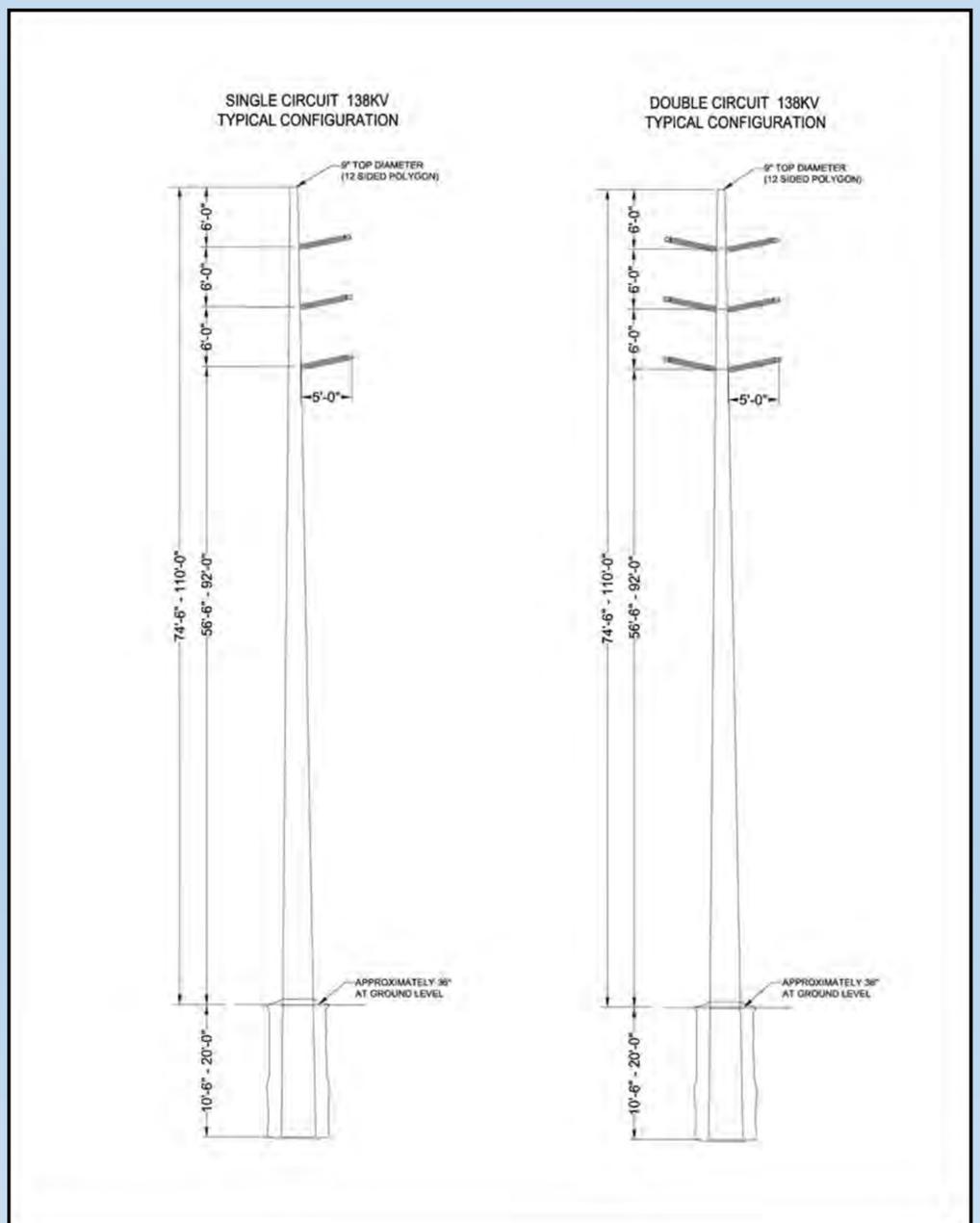
Nogales Tap to Kantor Upgrade Project Design

The **Nogales Tap to Kantor Upgrade Project** consists of upgrading a 27.5-mile segment of an existing UNSE 138-kV transmission line between a point near the Western Area Power Administration Nogales Tap switchyard and UNSE’s Kantor Substation.

NOGALES TAP TO KANTOR UPGRADE PROJECT	
Structure Attribute	Proposed
Structure type	Tubular steel monopoles
Structure height	75–110 feet
Span length	600–1,000 feet
Number of structures per mile	5–9 structures
ROW width	Up to 100 feet



Typical 138kV Monopole





Nogales Tap to Kantor Upgrade Project Alternatives

Alternative Route 1 (Applicants Preferred Route)

- ◆ Approximately 27.5 miles in length.
- ◆ Begins 320 feet south of the Nogales Tap on the west side of Wilmot Rd.
- ◆ Continues 9.5 miles south along the west side of Wilmot Rd.
- ◆ Turns southwest and continues diagonally for 18 miles to the Kantor Substation.
- ◆ This alternative would require obtaining new rights-of-way (ROWs) along the west side of Wilmot Rd. and amending existing ROWs along the diagonal section in order to offset the new poles 30 feet from the existing transmission line.

Alternative Route 2

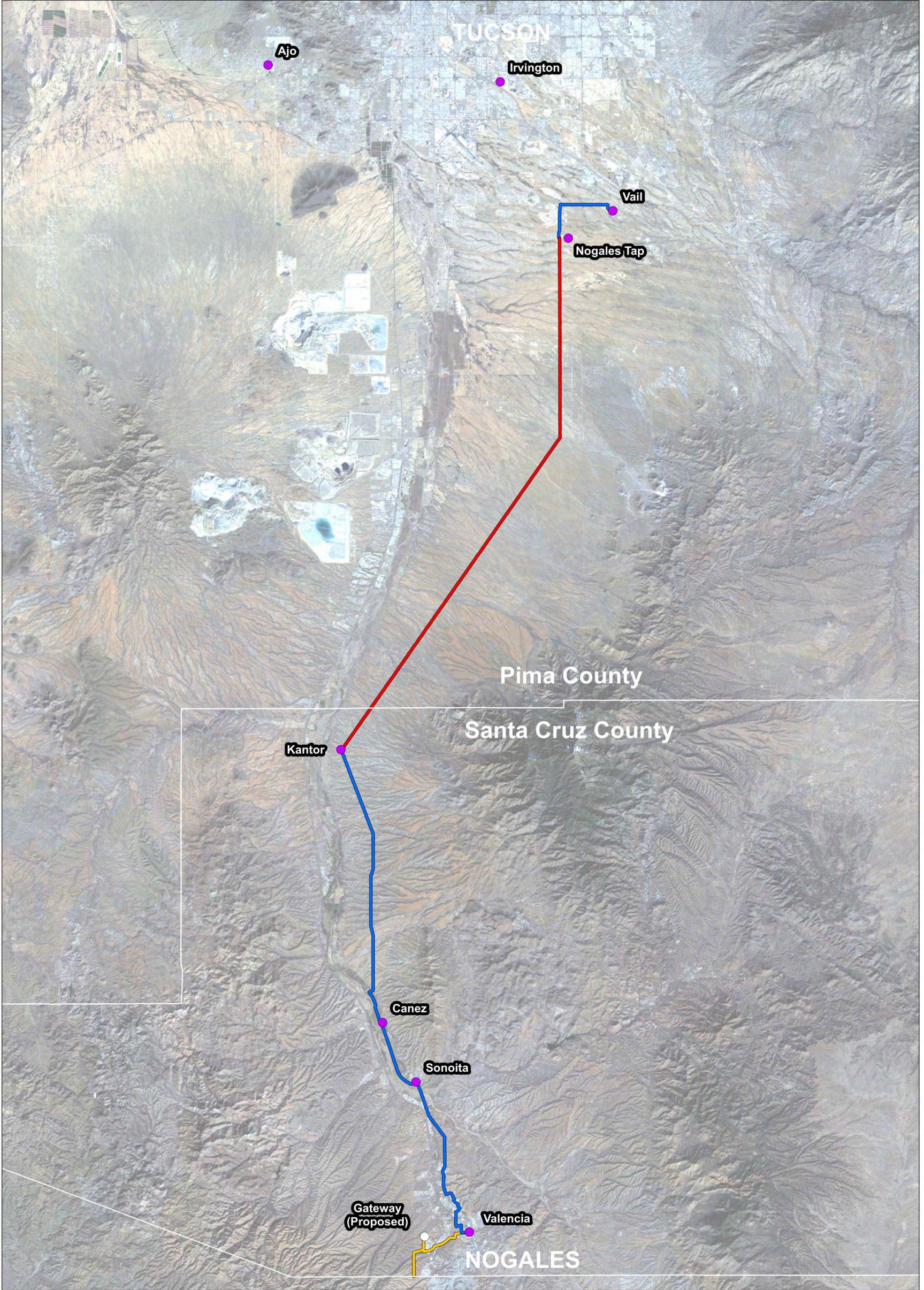
- ◆ Approximately 27.5 miles in length.
- ◆ Begins 320 feet south of the Nogales Tap on the west side of Wilmot Rd.
- ◆ Crosses to the east side of Wilmot Rd. and continues 9.5 miles south.
- ◆ Turns southwest and continues diagonally for 18 miles to the Kantor Substation.
- ◆ This alternative would require amending existing ROWs along the east side of Wilmot Rd., acquiring new ROWs, and amending existing ROWs along the diagonal section in order to offset the new poles 30 feet from the existing transmission line.

Alternative Route 3

- ◆ Approximately 27.5 miles in length.
- ◆ Begins 320 feet south of the Nogales Tap on the west side of Wilmot Rd.
- ◆ Crosses to the east side of Wilmot Rd. and continues 9.5 miles south.
- ◆ Turns southwest and continues diagonally for 18 miles to the Kantor Substation.
- ◆ Upgrade would be built within the existing 50 to 100-foot-wide ROWs.

Alternative 1 is preferable for safety and reliability reasons.

1. Upgrading the transmission line in the existing ROWs would require de-energizing the existing line during construction and it is the sole source of power to Santa Cruz County.
2. Moving the line west of the existing line, while staying east of Wilmot Rd. places the line in close proximity to Wilmot Rd. pavement and shoulder.
3. Moving the line further east is not an option, given existing development east of the existing line.

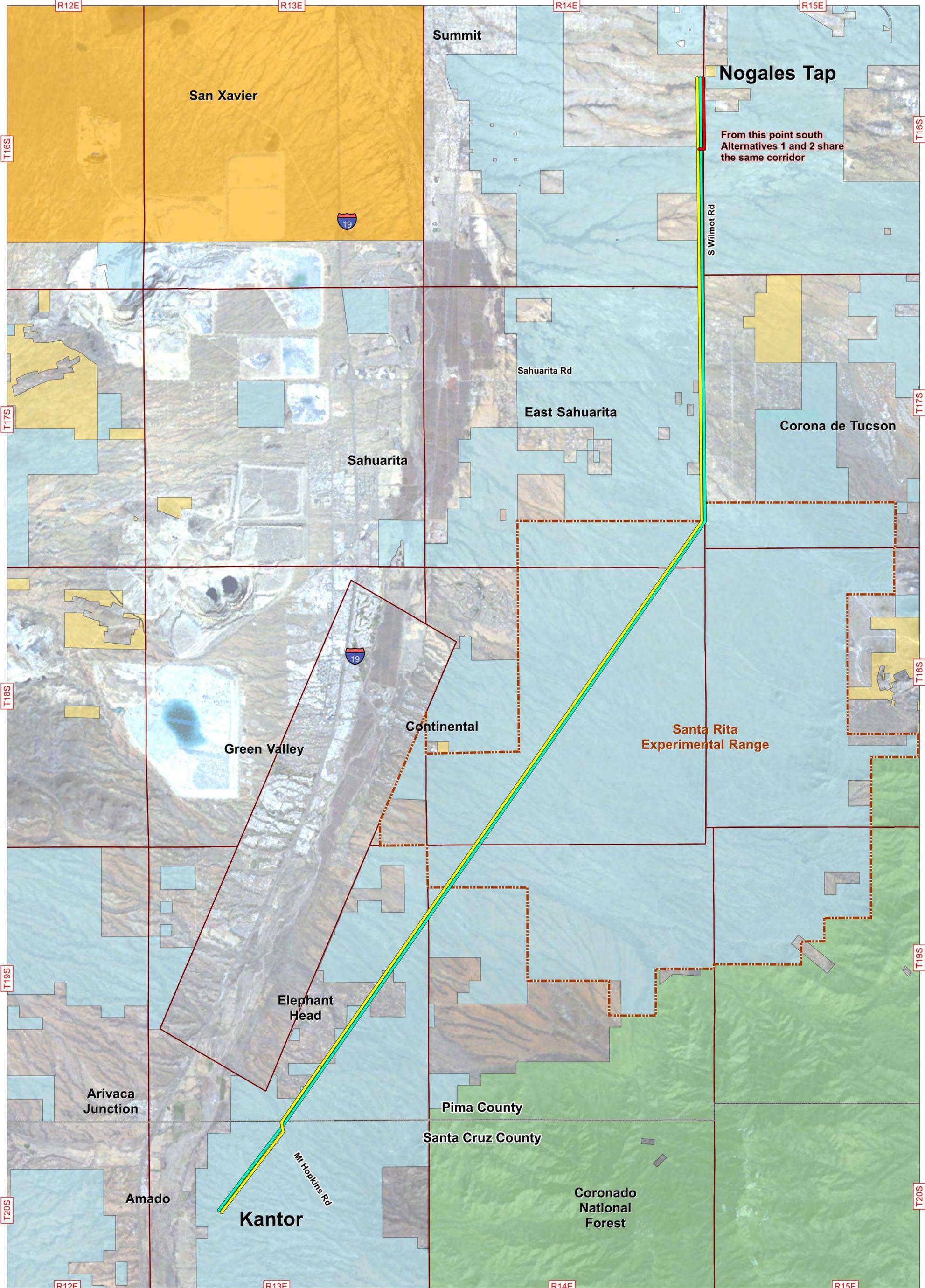


Legend	
— Existing Vail to Valencia 138kV Transmission Line	● Existing Substations
— Existing Nogales Tap to Kantor 138kV Transmission Line (A Segment of the Vail to Valencia Transmission Line)	 Proposed Substation
— Proposed Nogales Interconnection Project	

Project Overview
NOGALES TAP TO KANTOR UPGRADE PROJECT



UNSCORP Project Overview
UNSCORP Energy Corp.
This map is for general planning purposes only.
TEP and UniSource make no warranty of its accuracy.



Legend	
	Alternative 1 100' Corridor
	Alternative 2 100' Corridor
	Alternative 3 Existing UNSE 50-100' Corridor
	Bureau of Land Management (BLM)
	San Xavier District
	Private Land (No Color)
	State Trust Land
	Coronado National Forest
	Santa Rita Experimental Range

1 inch = 1 miles
 0 0.5 1 Miles
Rev. 1.2
6/9/2017



Project Location
NOGALES TAP to KANTOR UPGRADE PROJECT