

Santa Rita Connection Project



Welcome

Please Sign In

Bienvenidos

(Hablamos Español)

Por Favor Regístrese

6:00 - 8:00 pm

For more information - Para más información:



Purpose and Need

Need

Anticipated future load growth in the area south of Tucson

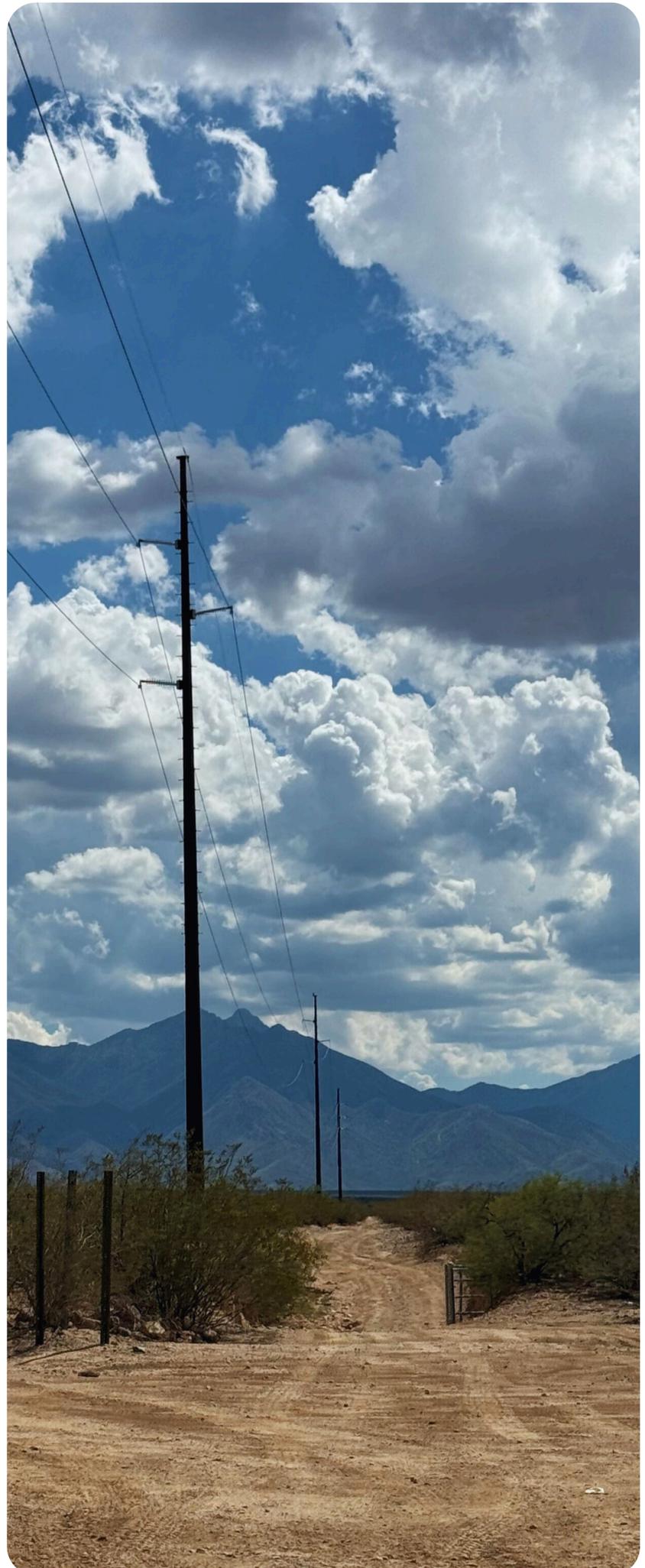
Enhance the regional grid by providing additional redundancy and stability

Purpose

Create additional pathway to accommodate anticipated future load growth

Provide greater capacity to help meet the current and future energy needs of the community

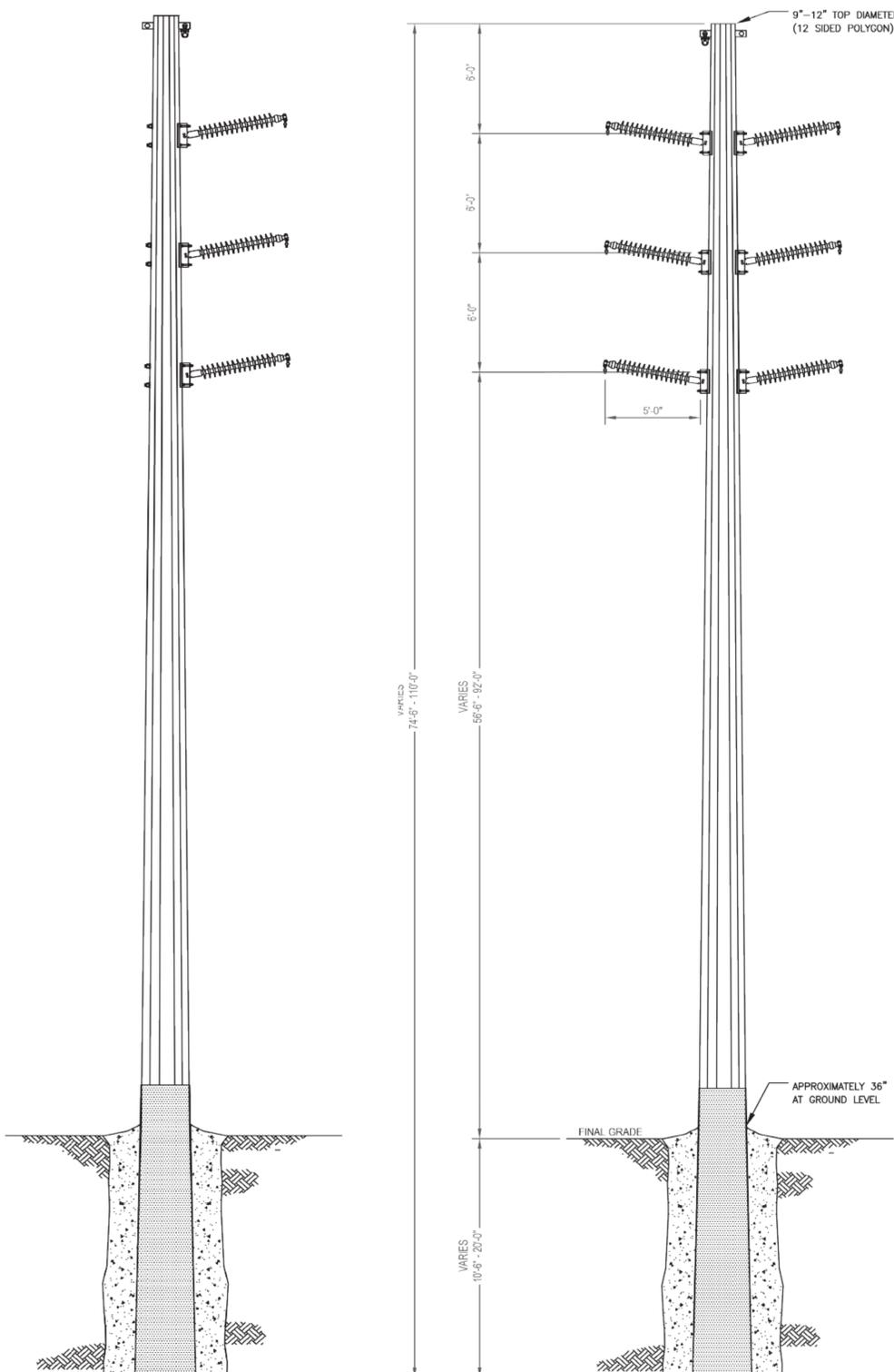
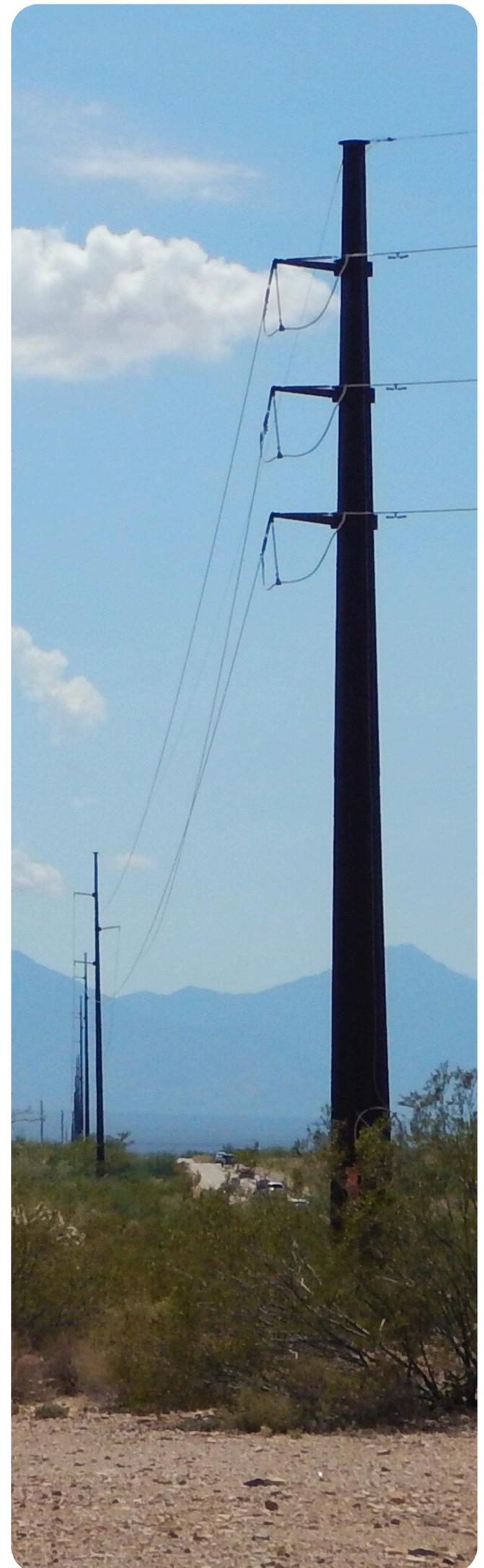
Provide additional redundancy for increased reliability in the area south of Tucson



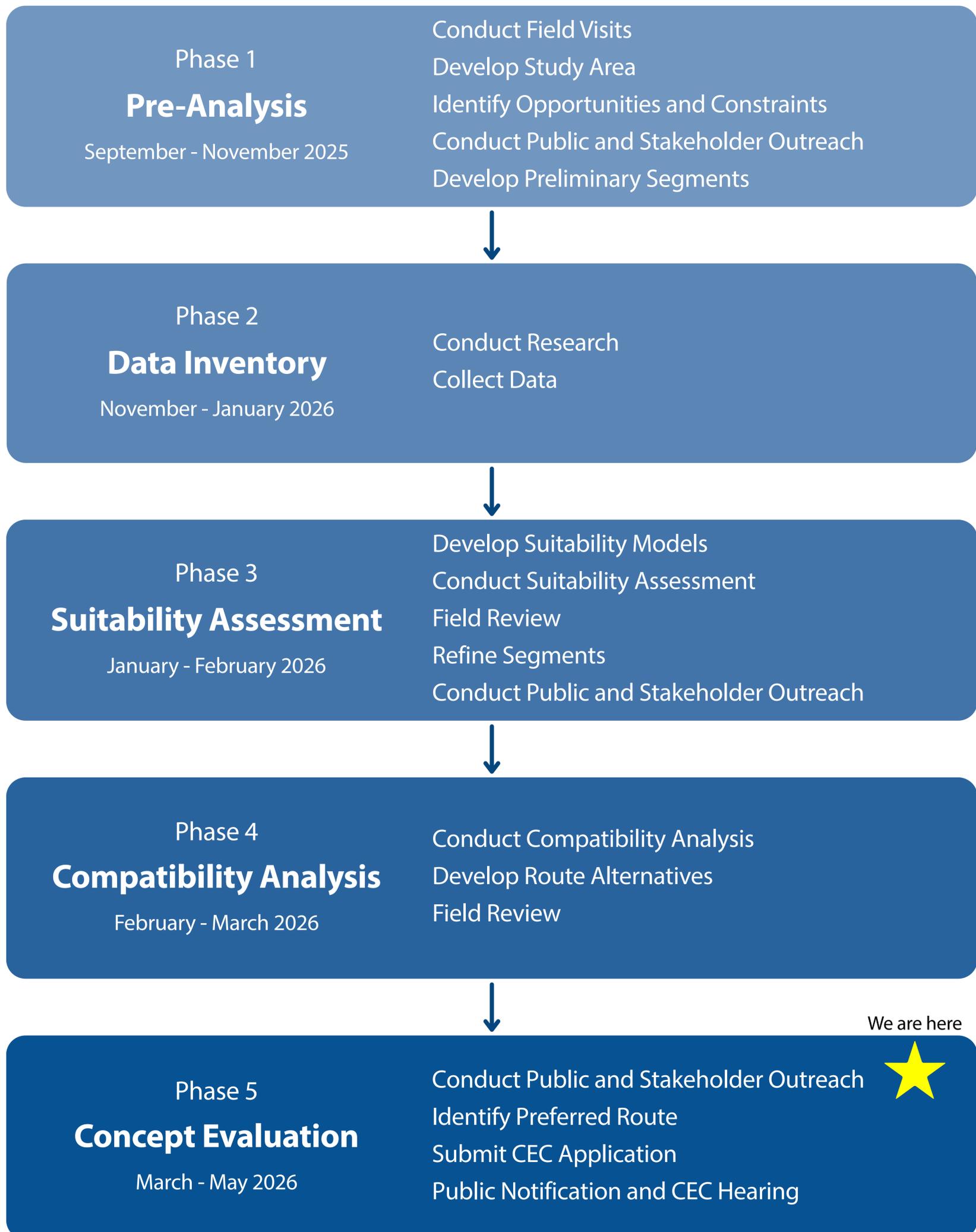
Transmission Line Characteristics

Single or Double-Circuit 138 Kilovolt

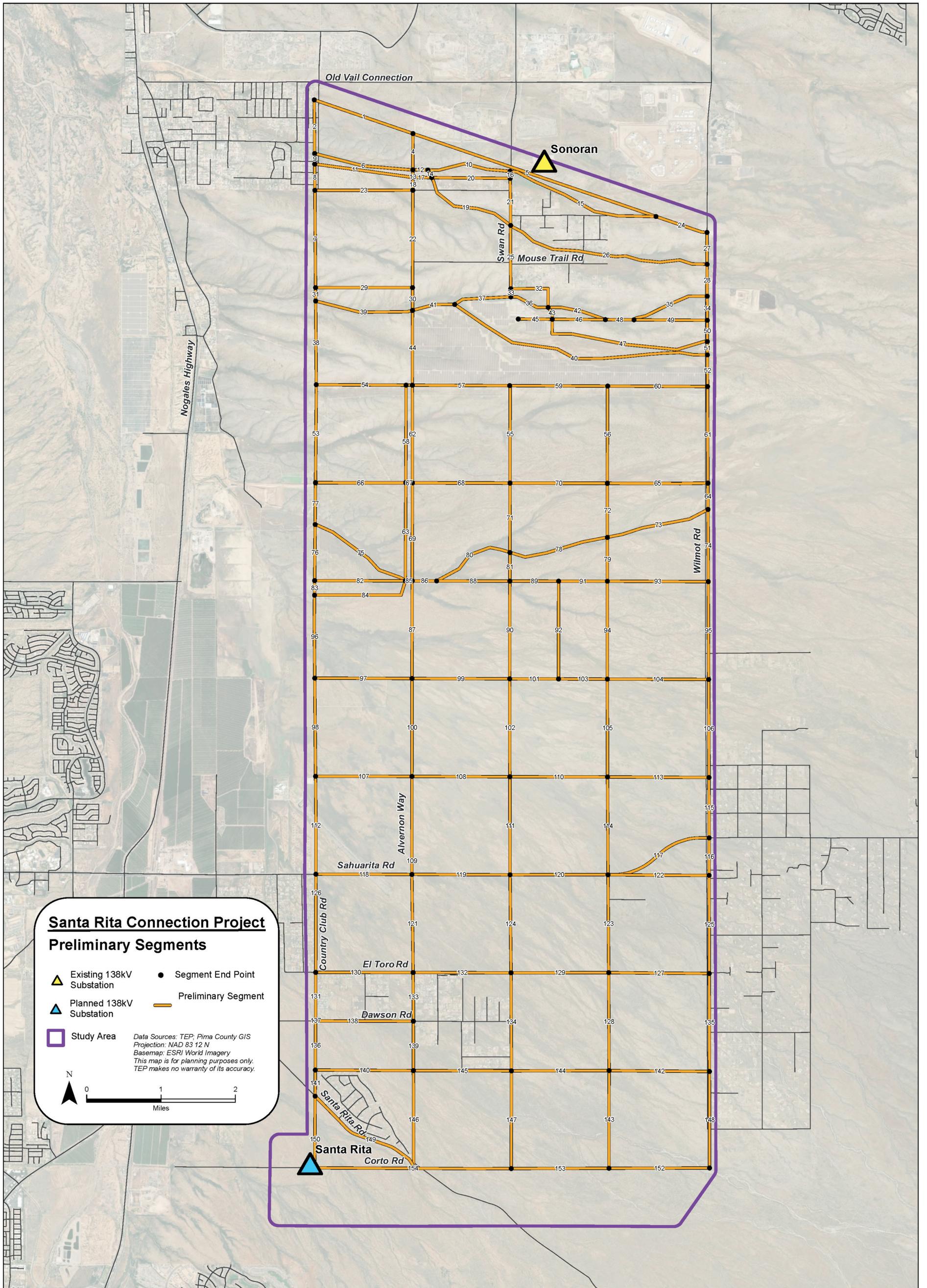
Structure Type	tubular, weathering steel monopoles
Typical Structure Height	75 - 85 feet
Typical Span Length	600 - 1,000 feet



Siting Process and Timeline



Santa Rita Connection Project



Suitability Assessment

Criteria Datasets

Biological Resources
Noise & Communication
Total Environment
Existing & Future Residential
Cultural Resources
Scenic & Visual Resources
Construction & Maintenance
Existing Plans

Composite Models

Balanced Compatibility
Environmentally Preferred
Construction & Maintenance Preferred
Public, Stakeholder and Agency Preferred

Suitability Assessment

Identify highest suitable path
Apply constraints
Conduct visual comparison

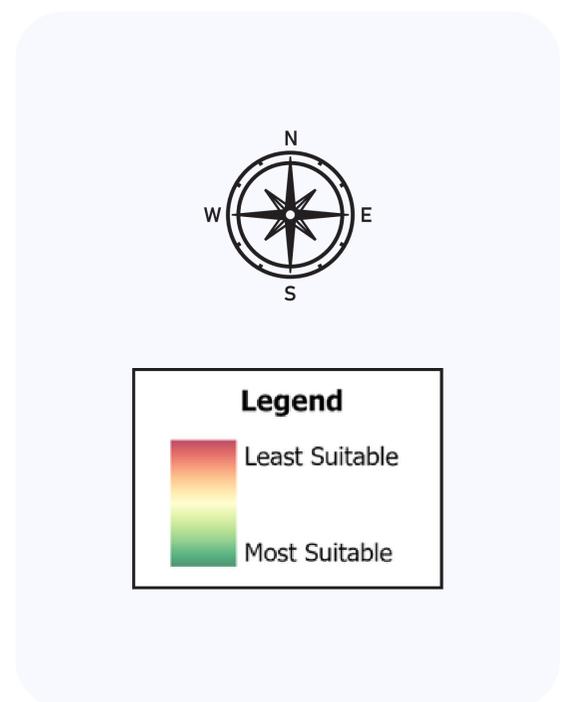
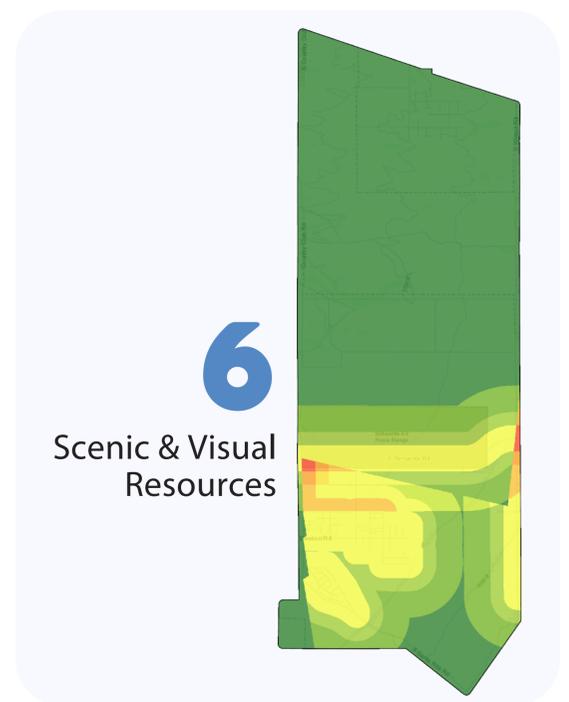
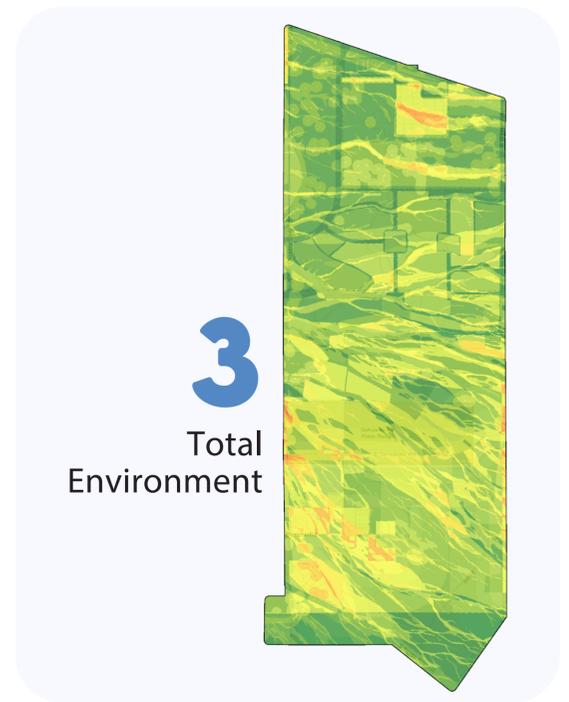
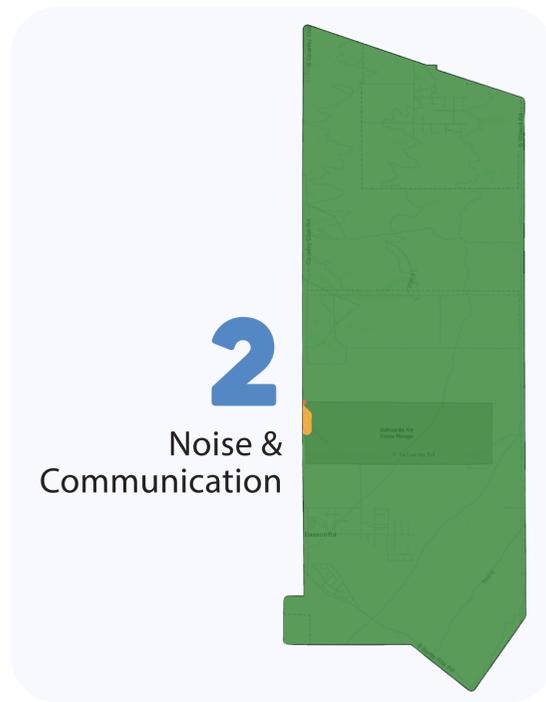
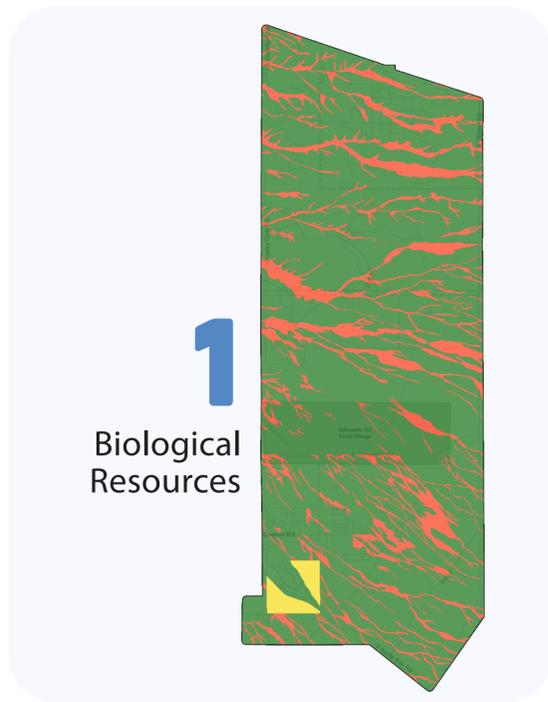
Field Verification

Ground truthing

Refined Segments

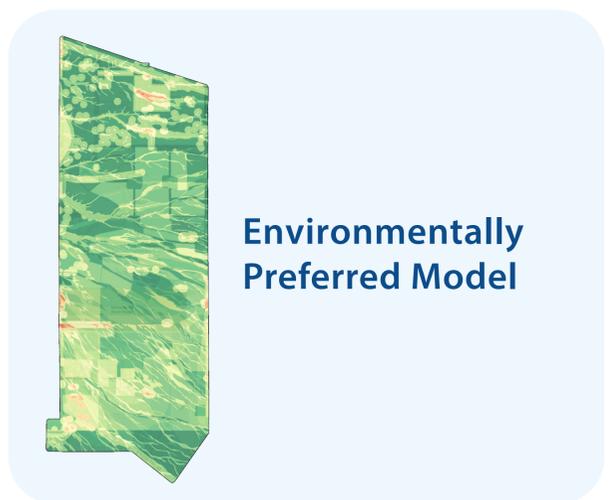
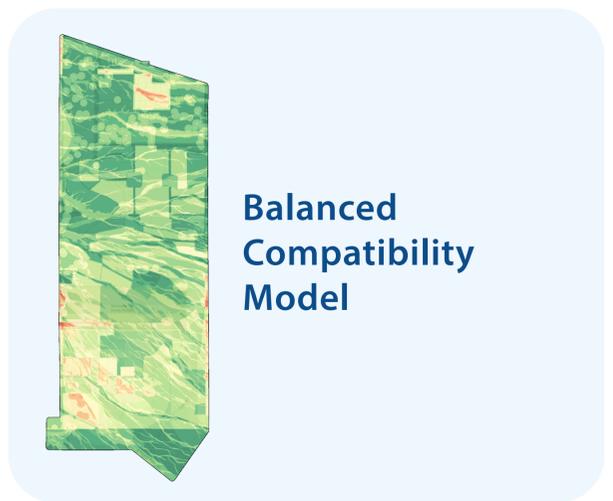
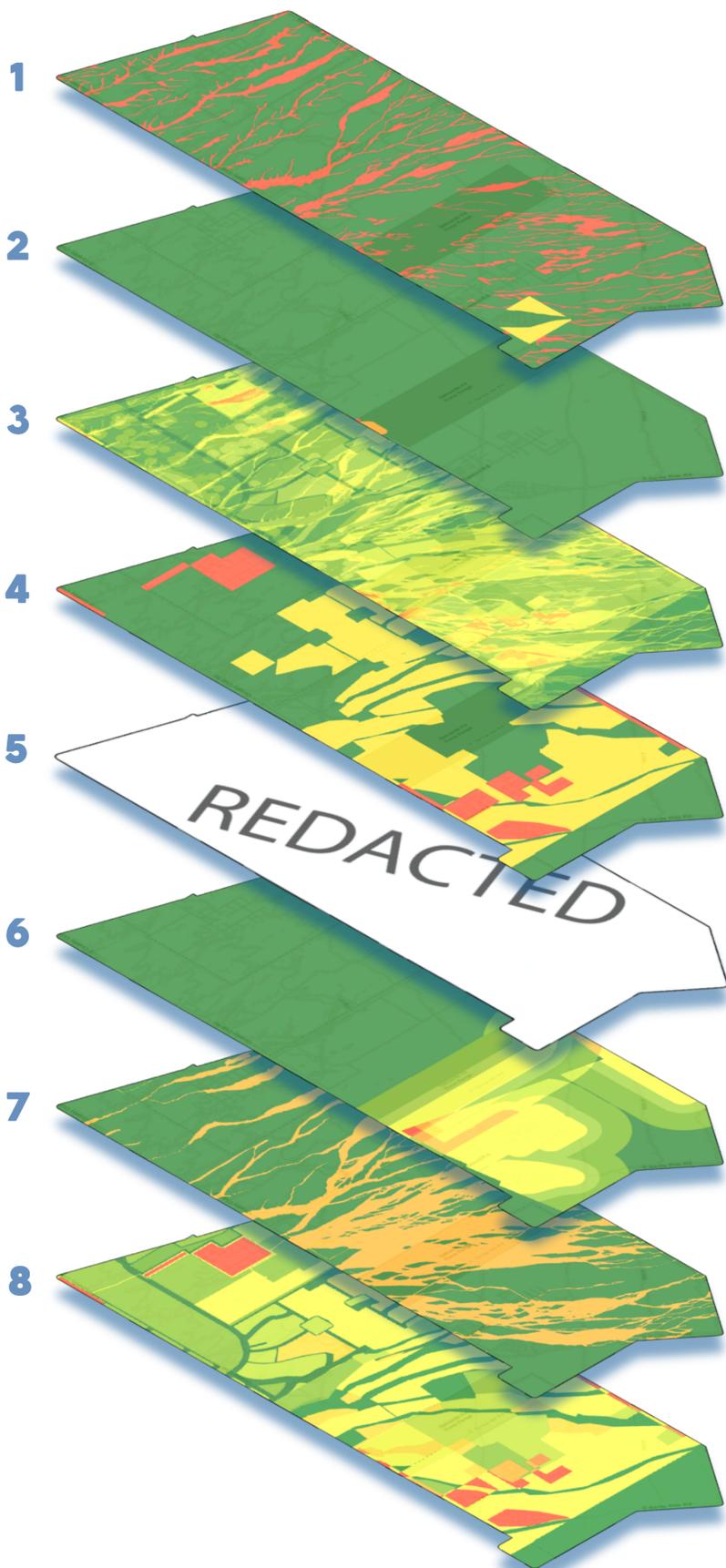
Less suitable segments eliminated
Refined segments carried forward for further evaluation

Suitability Criteria



Composite Suitability Methodology

- Criteria 1: Biological Resources
- Criteria 2: Noise & Communication
- Criteria 3: Total Environment
- Criteria 4: Existing & Future Residential
- Criteria 5: Cultural Resources
- Criteria 6: Scenic & Visual Resources
- Criteria 7: Construction & Maintenance
- Criteria 8: Existing Plans



Composite Suitability Models

A
Balanced
Compatibility
Model



B
Environmentally
Preferred
Model



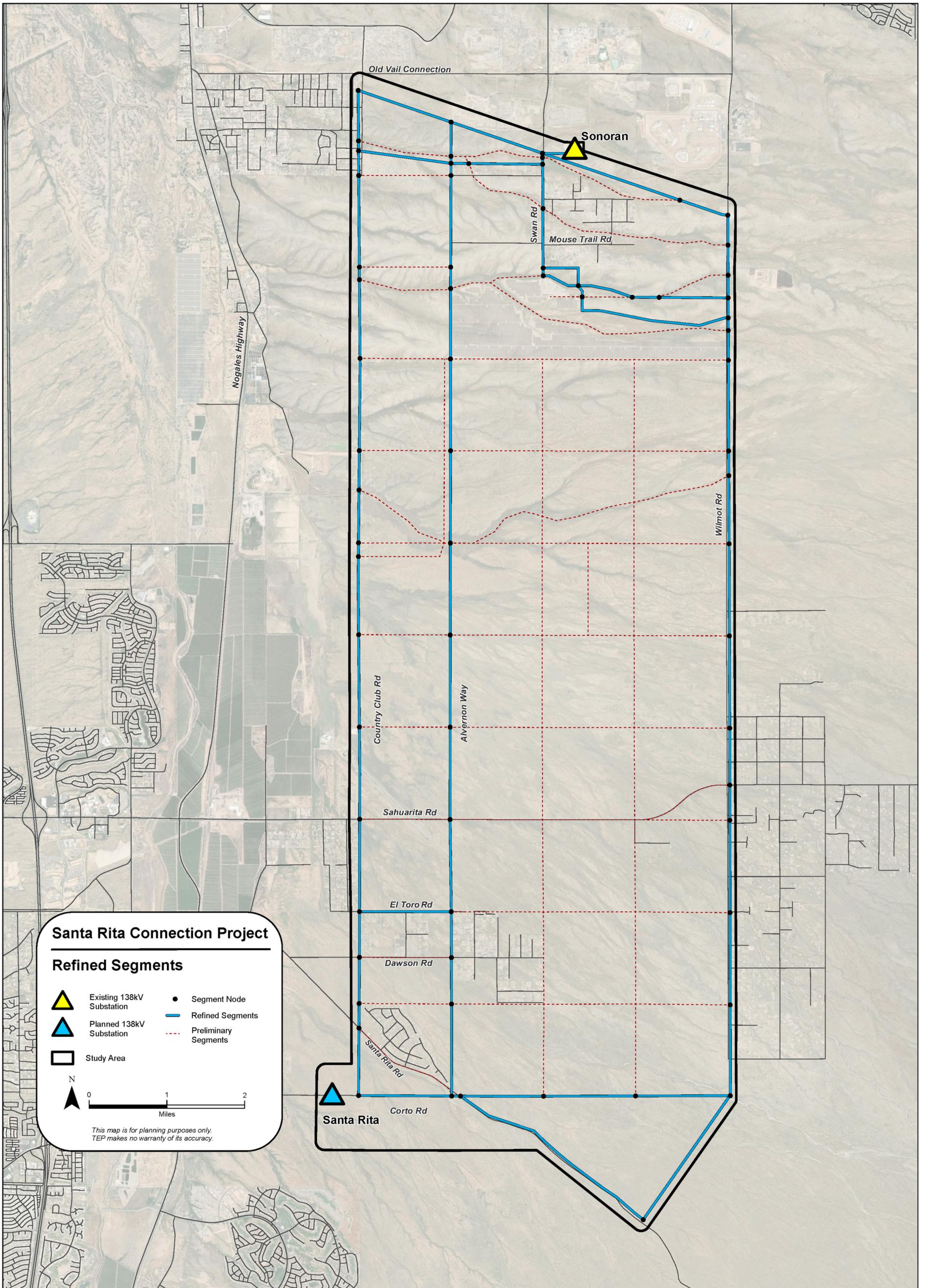
C
Construction
& Maintenance
Preferred Model



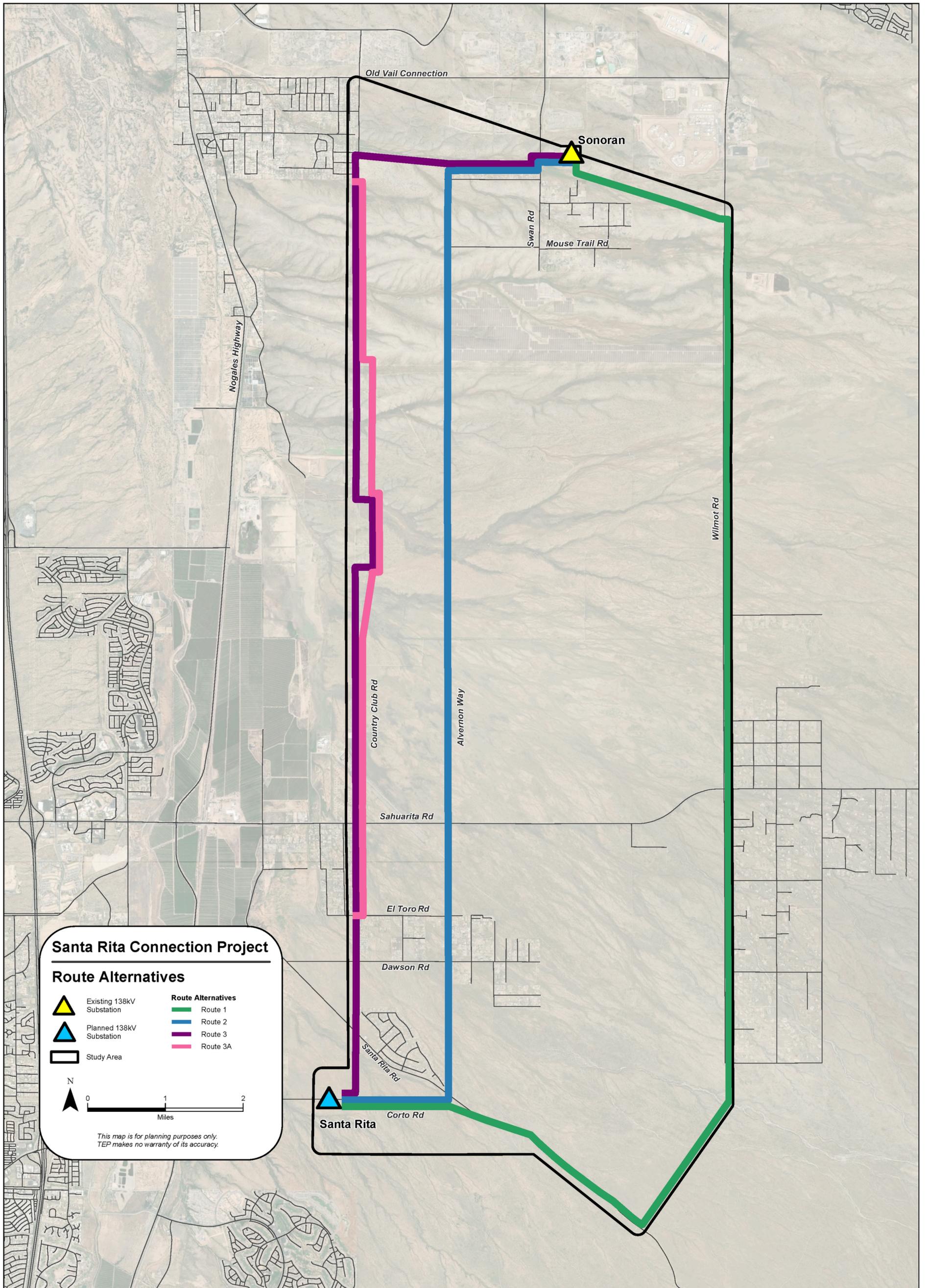
D
Public, Stakeholder
& Agency Preferred
Model



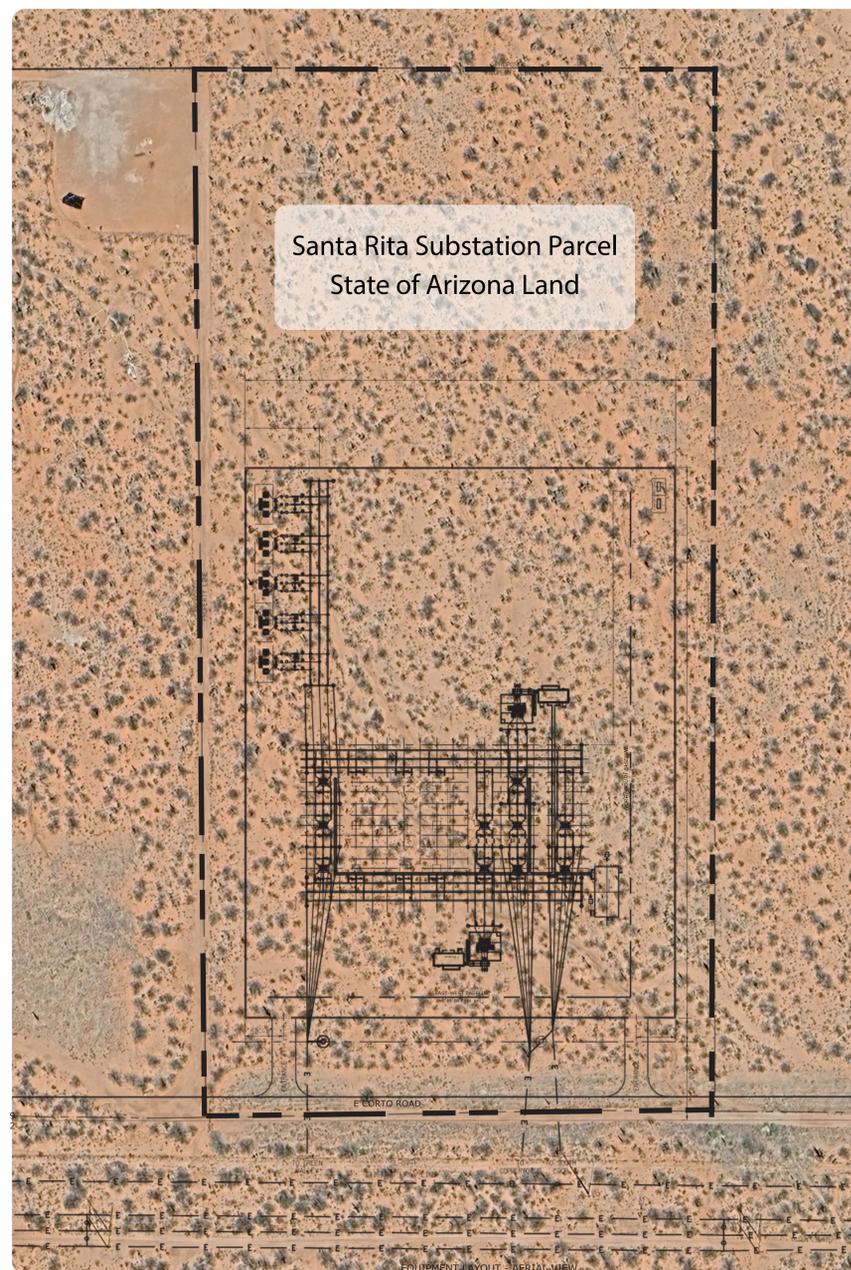
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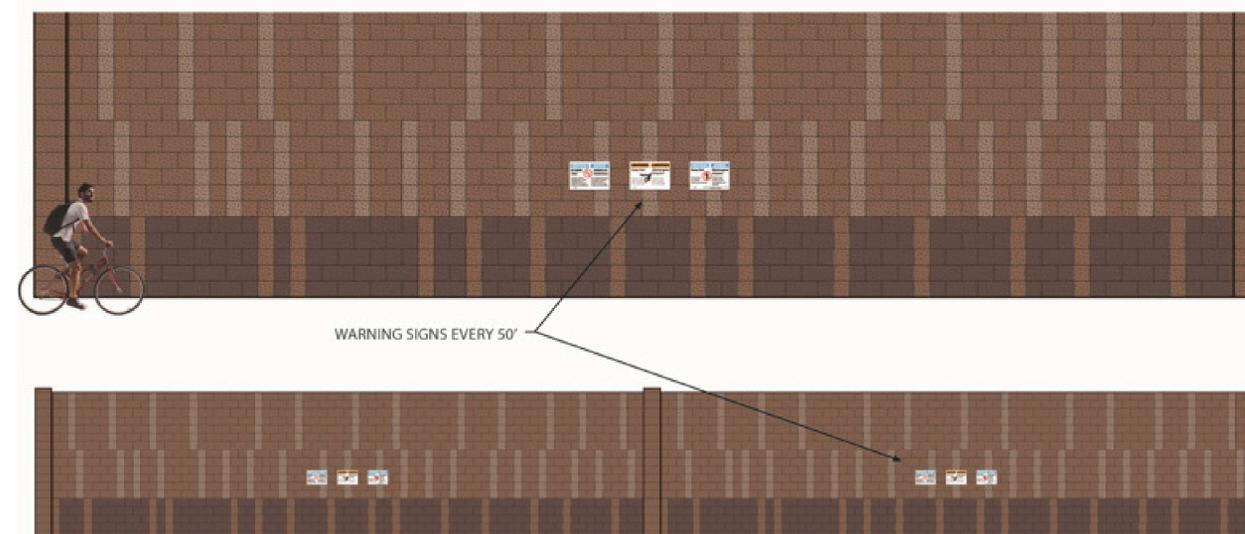
Santa Rita Substation Characteristics



Kino Substation - Kino Pkwy & 36th St, Tucson

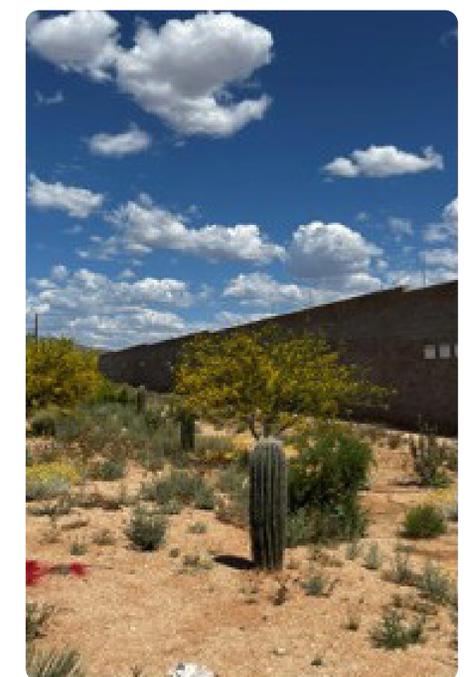


Patriot Substation - Escalante Rd & S Kolb Rd, Tucson



COLUMNS 50' APART. PATTERN REPEATS EVERY 50'

Conceptual Wall Design



Siting Criteria

TEP will be applying for a Certificate of Environmental Compatibility from the Arizona Corporation Commission. Several criteria are required under the Arizona Revised Statutes to be evaluated when analyzing segments and selecting a preferred route. TEP also considers additional factors identified through public engagement and feedback.



Public input



Historic & cultural sites



Wildlife & plants



Scenic vistas



Existing & planned land use



Current or potential recreation areas



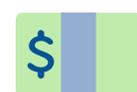
Overall environment



Engineering & construction feasibility



Noise emission levels & interference with communication signals



Project costs & potential impact on customer rates

