

Santa Cruz Reliability Project South

Welcome

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español

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Information



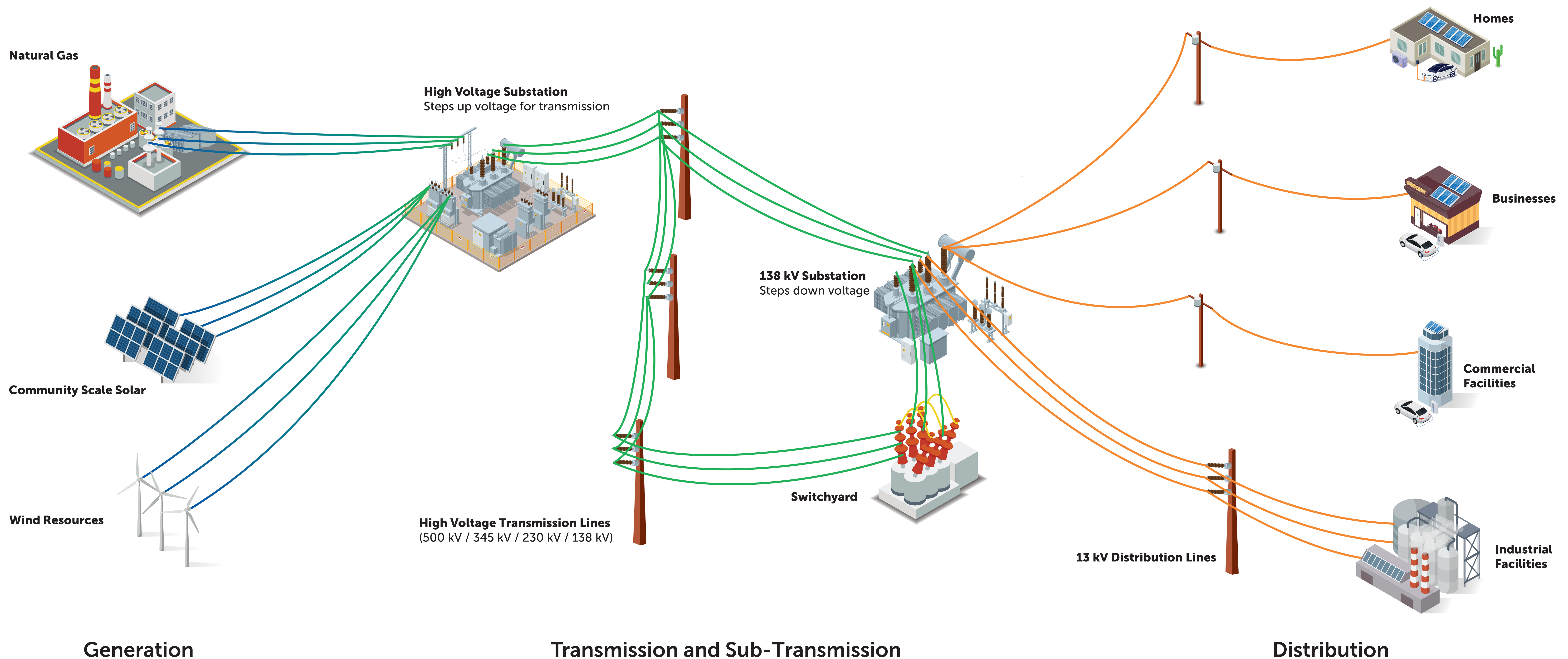
Para Más
Información



Our Energy Grid

How we deliver electric service to you

UniSourceEnergy
SERVICES



Purpose & Need

Purpose

Improve the reliability and resiliency of the electrical transmission system servicing Santa Cruz County



Need

Maintain and strengthen reliability for Santa Cruz County and its residents, businesses, and industries including hospitals, schools, ports of entry, and federal facilities

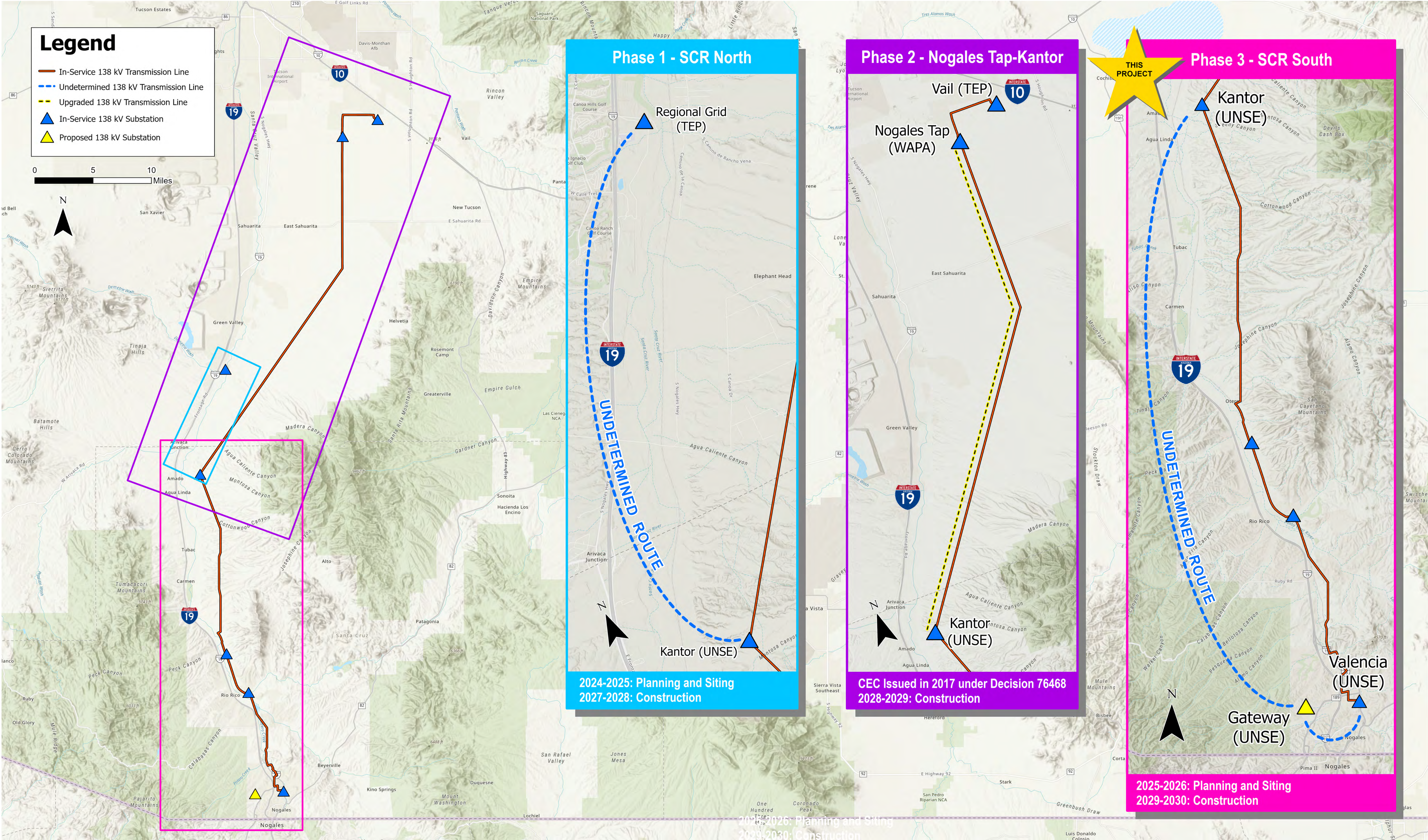
Meet current and future energy needs without impacting service to existing customers

Convert the current radial line configuration servicing Santa Cruz County to a looped transmission system

Reduce and eliminate the potential for a major and sustained outage in Santa Cruz County

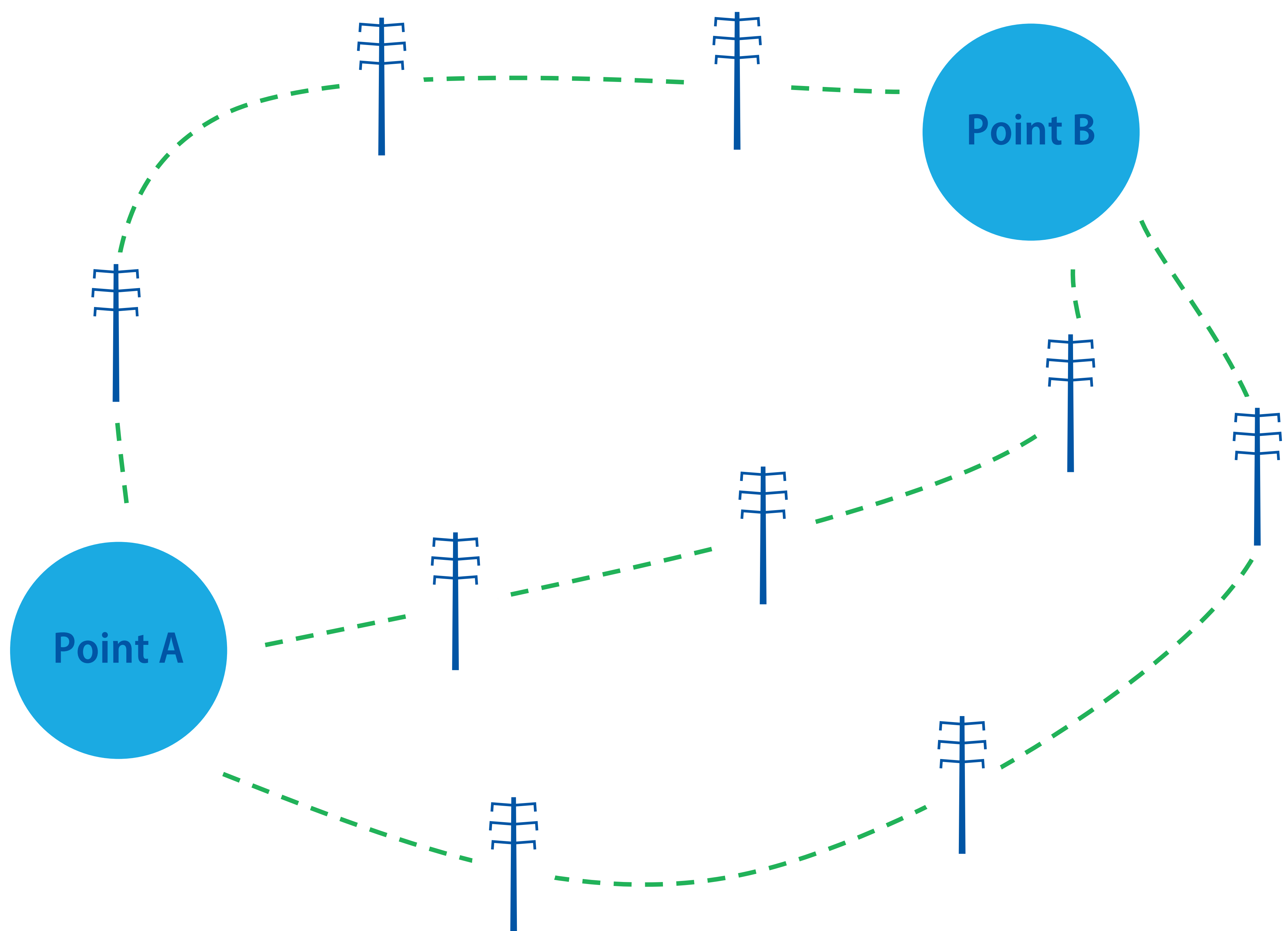
Support maintenance and other upgrades, allowing work to be performed without interrupting system operations

Santa Cruz Reliability Project South



What is Siting?

The process of determining the exact route or location where a high-voltage transmission line will be built between two or more points. These points could be new or existing substations, switchyards or energy resources.



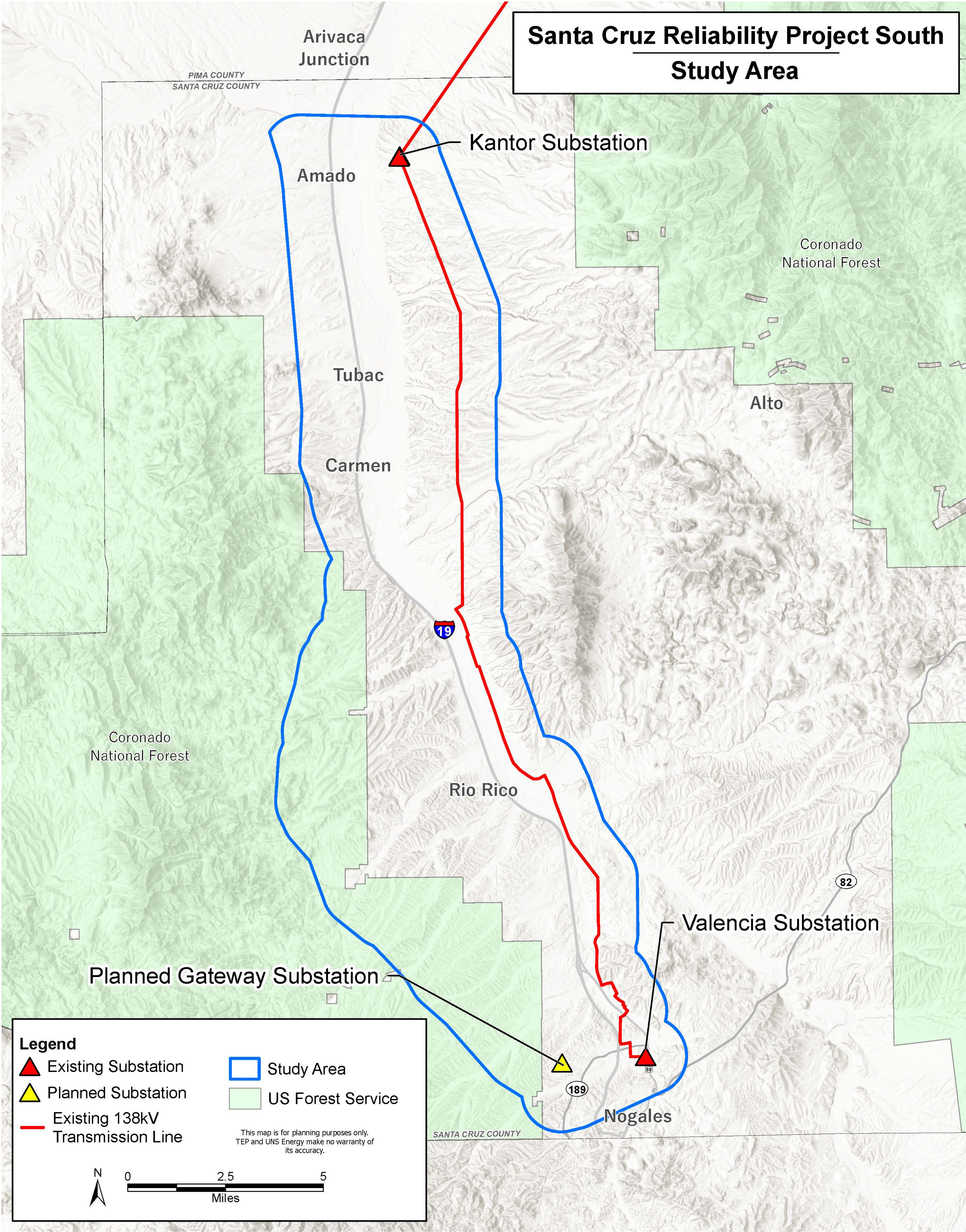
A component of siting is permitting. Under Arizona law (A.R.S. § 40-360 et seq.), certain transmission line configurations require a Certificate of Environmental Compatibility (CEC) before construction and operation along an approved route.

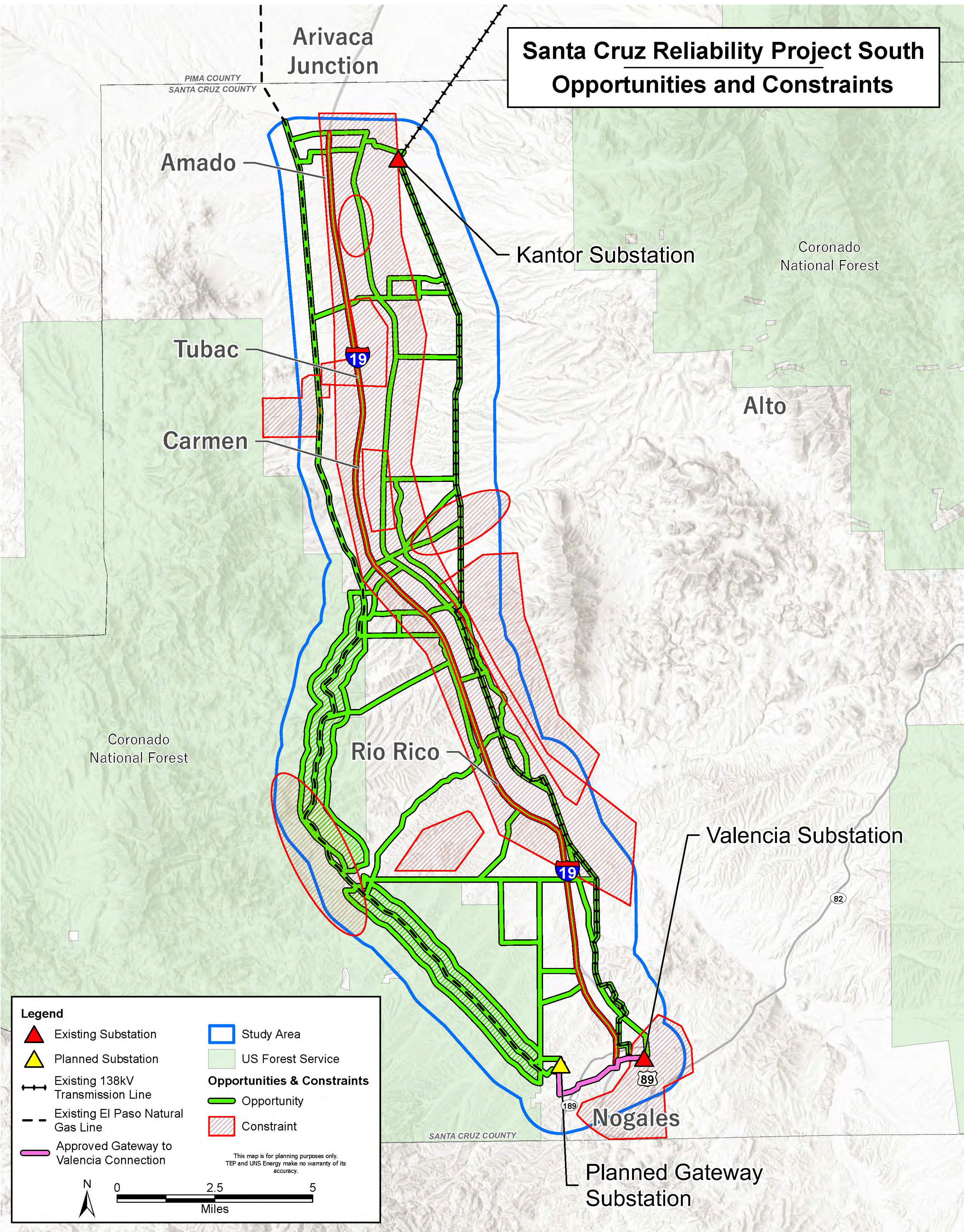
Example Pole Structure

Tubular, Weathering Steel Monopoles



Typical height 75 - 85 feet
Typical span length of 600 - 1,000 feet





Project Route Development and Evaluation

UniSource considers factors important to the community and environment, and balances them with constructability, maintenance, and cost to find the most suitable path for the transmission line that satisfies the need for the project.

Suitability Factors

- Community Input
- Biological Resources
- Land Use
- Visual Resources
- Cultural Resources

Practicability

- Cost
- Maintenance
- Constructability



Siting Process Flowchart

Phase 1:
Pre-Analysis

- Conduct Field Visits
- Develop Study Area
- Identify Opportunities and Constraints
- Conduct Public and Stakeholder Outreach
- Develop Preliminary Segments

Phase 2:
Data Inventory

- Conduct Research and Collect Data

Phase 3:
**Suitability
Assessment**

- Develop Suitability Models
- Conduct Suitability Assessment
- Field Review
- Refine Segments



Phase 4:
**Compatibility
Analysis**

- Conduct Compatibility Analysis
- Develop Route Alternatives
- Conduct Public and Stakeholder Outreach
- Identify Preferred Route

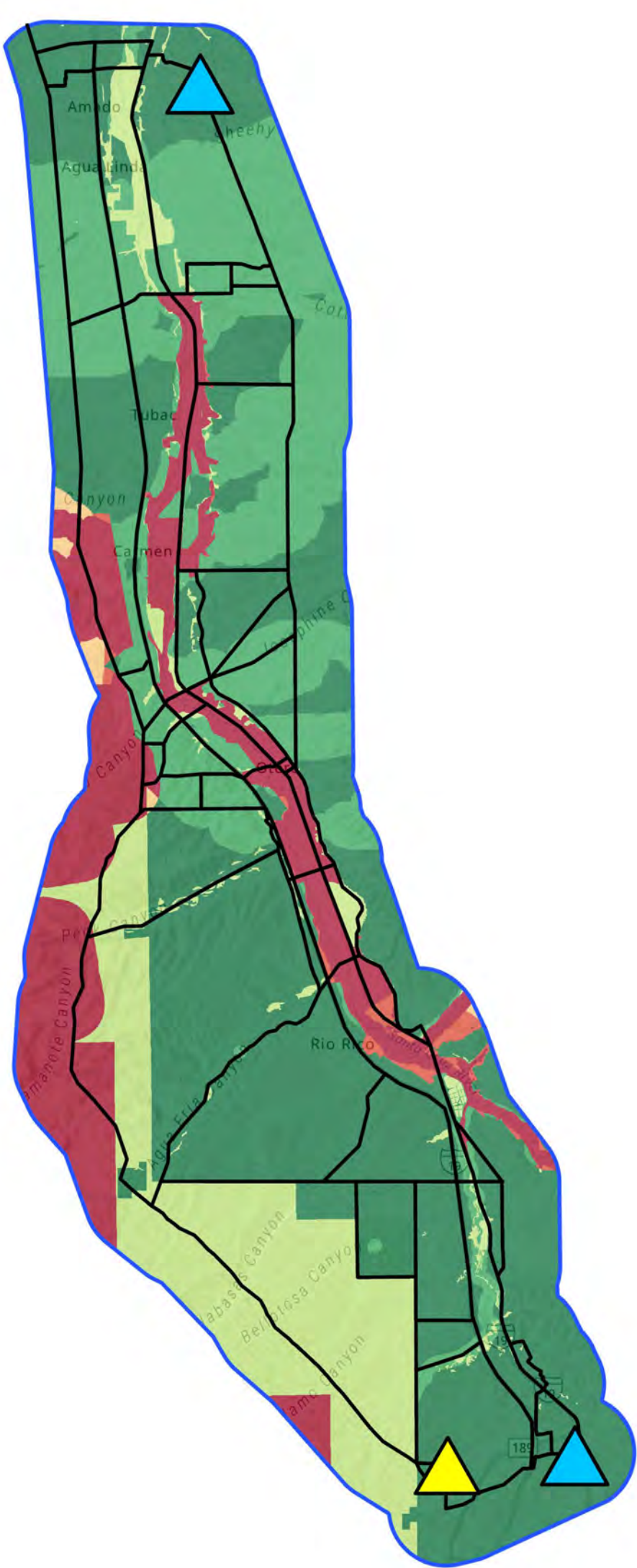
Phase 5:
**Concept
Evaluation**

- Field Review
- Submit CEC Application
- Public Notification and Hearing

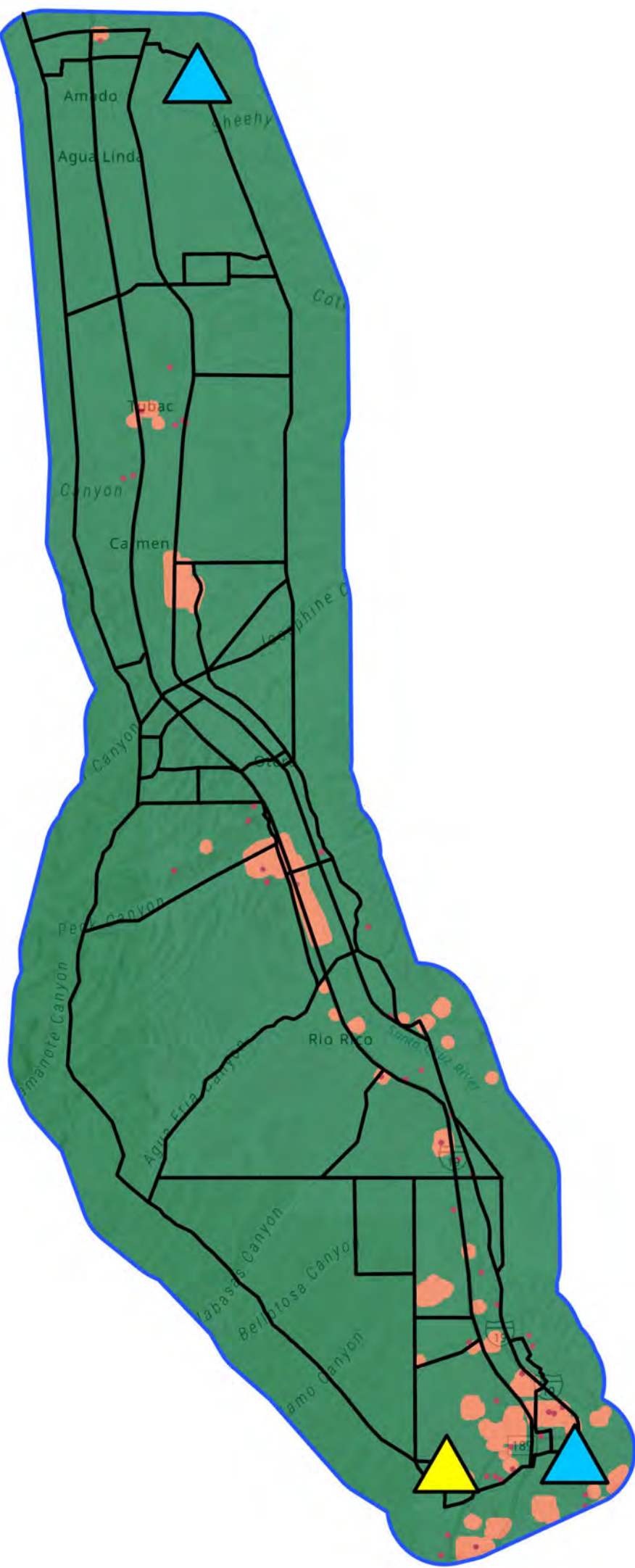
Suitability Assessment



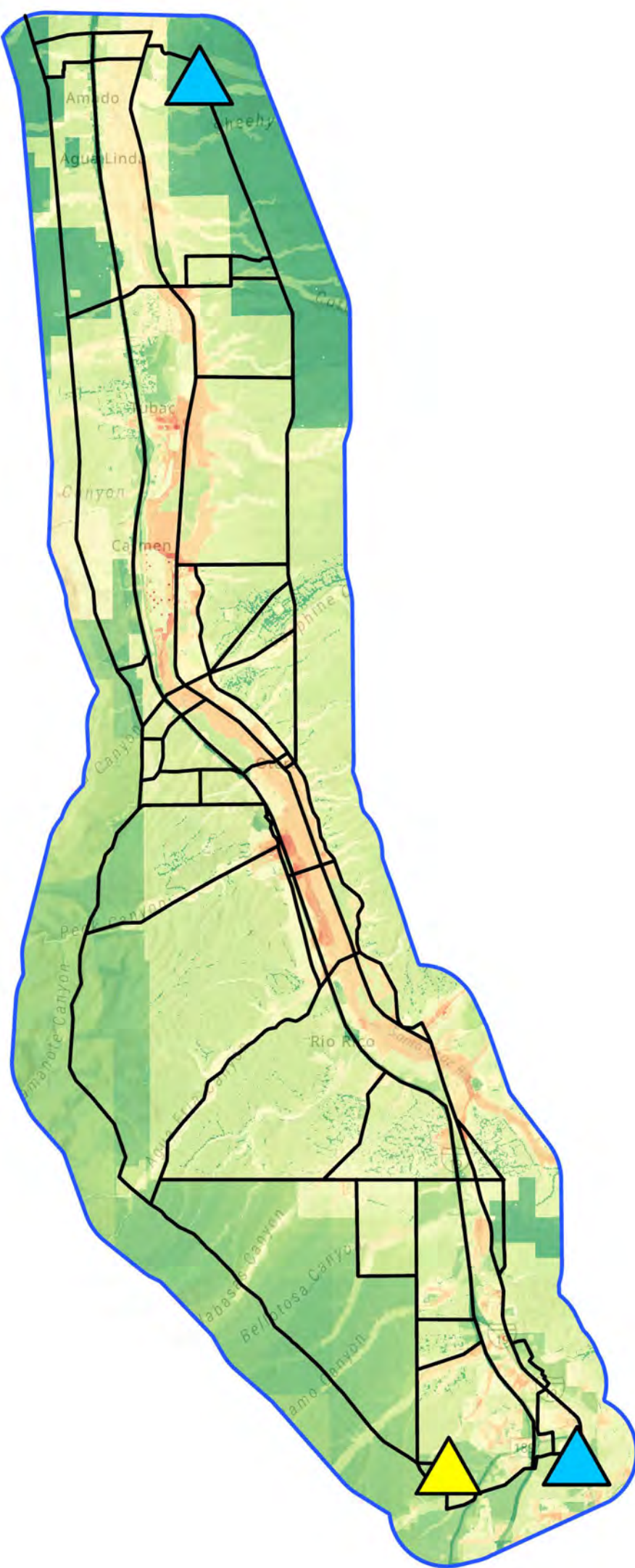
Suitability Criteria



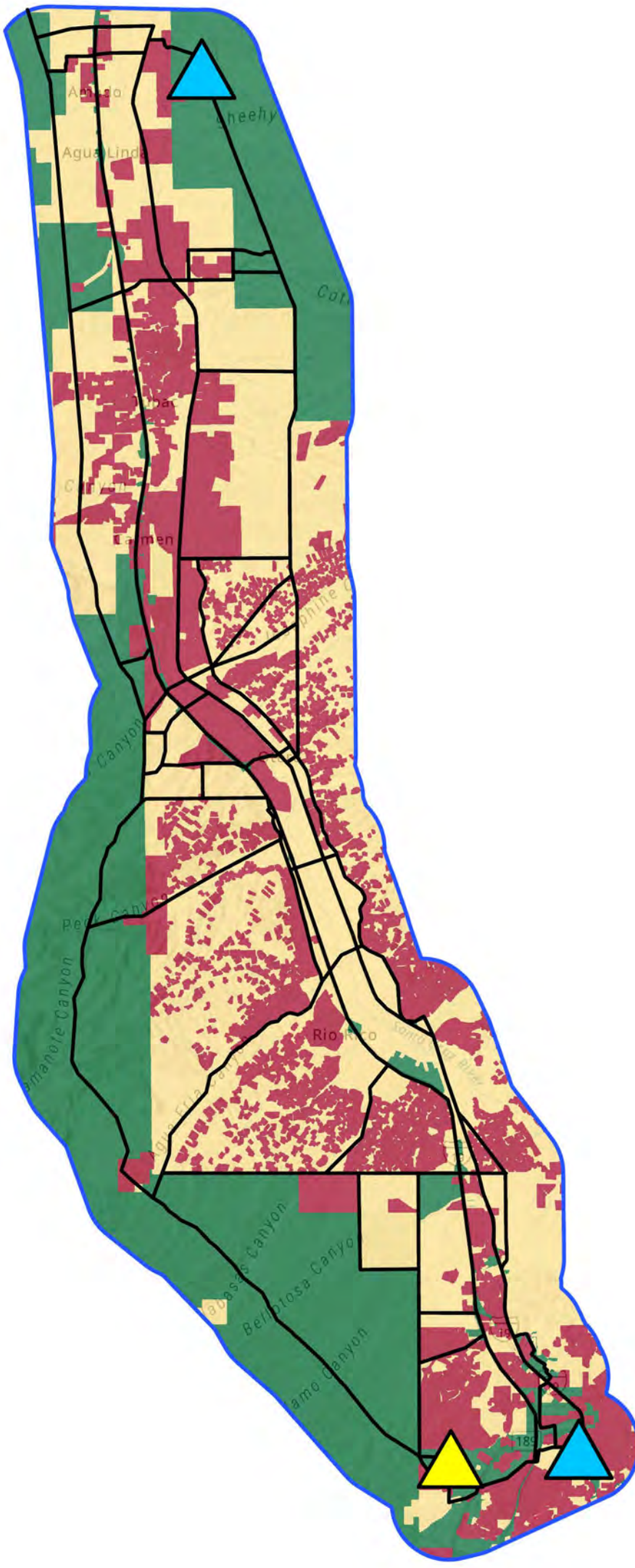
Criteria 1. Biological Resources



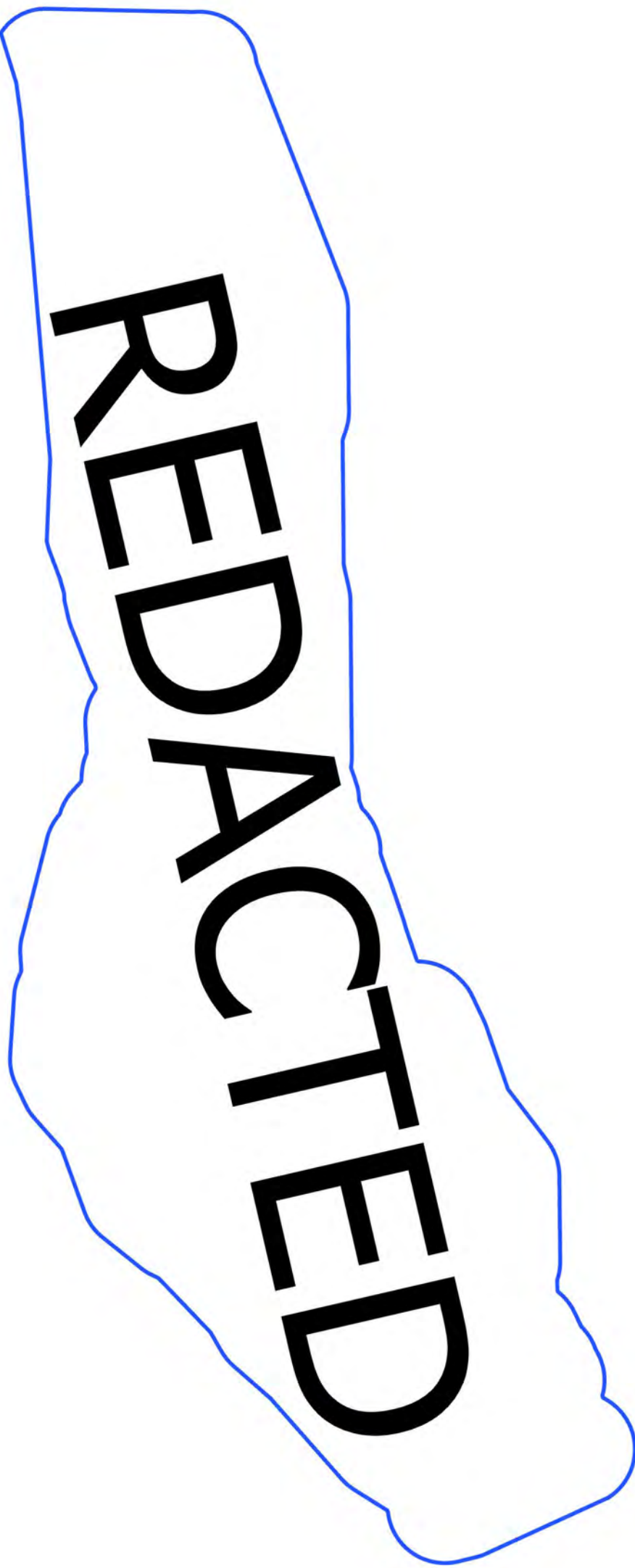
Criteria 2. Noise and Communication



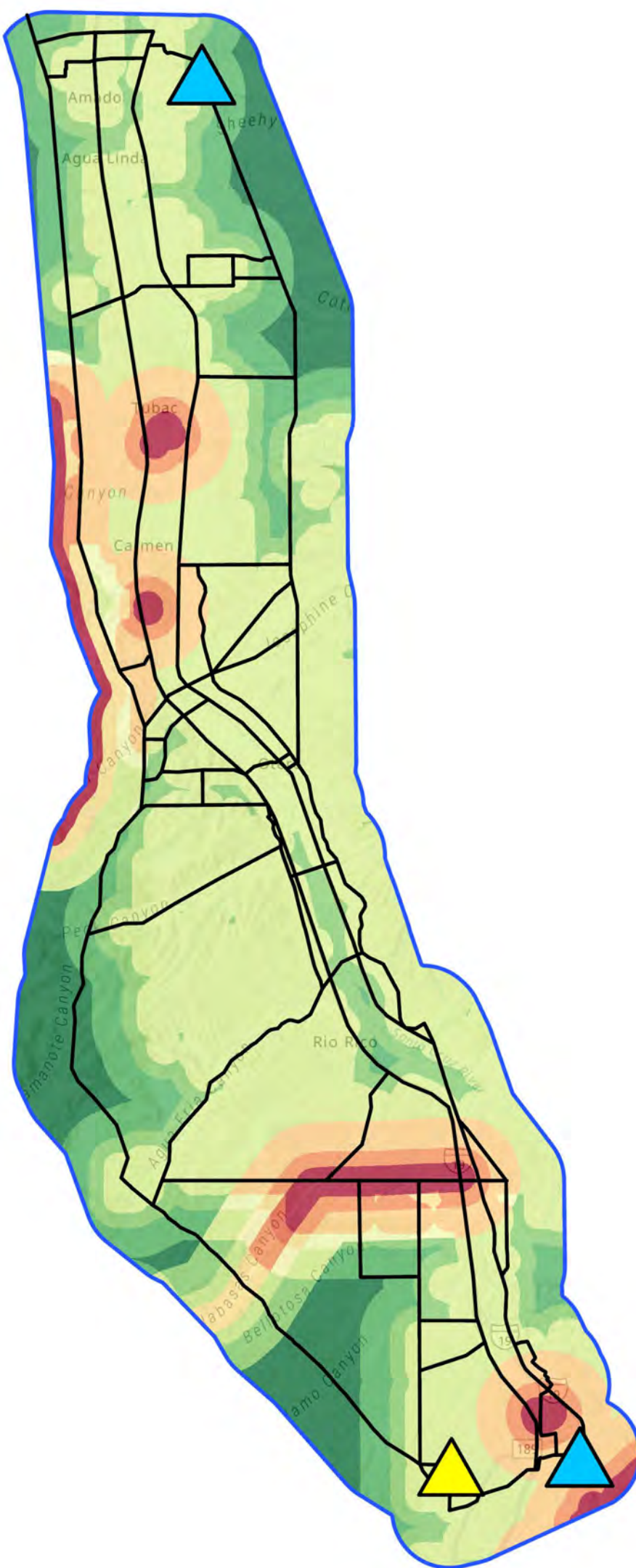
Criteria 3. Total Environment



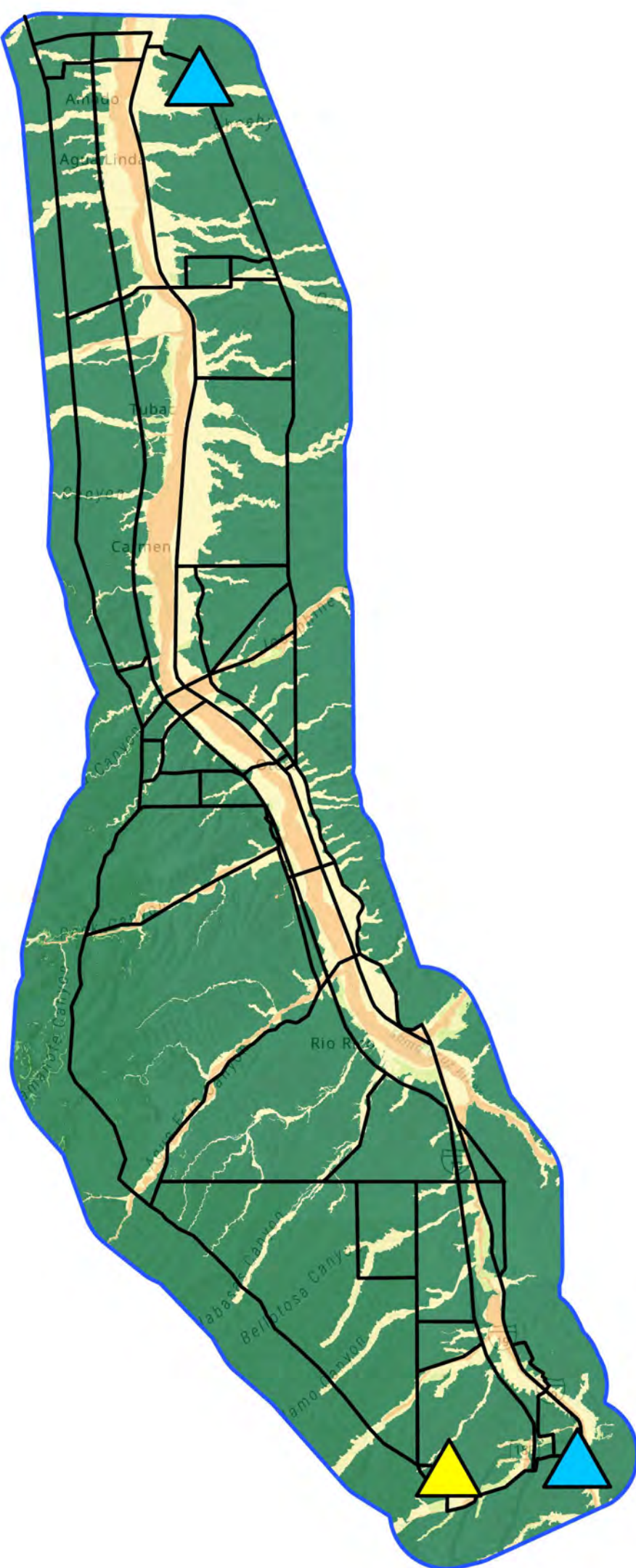
Criteria 4. Existing and Future Residential Properties



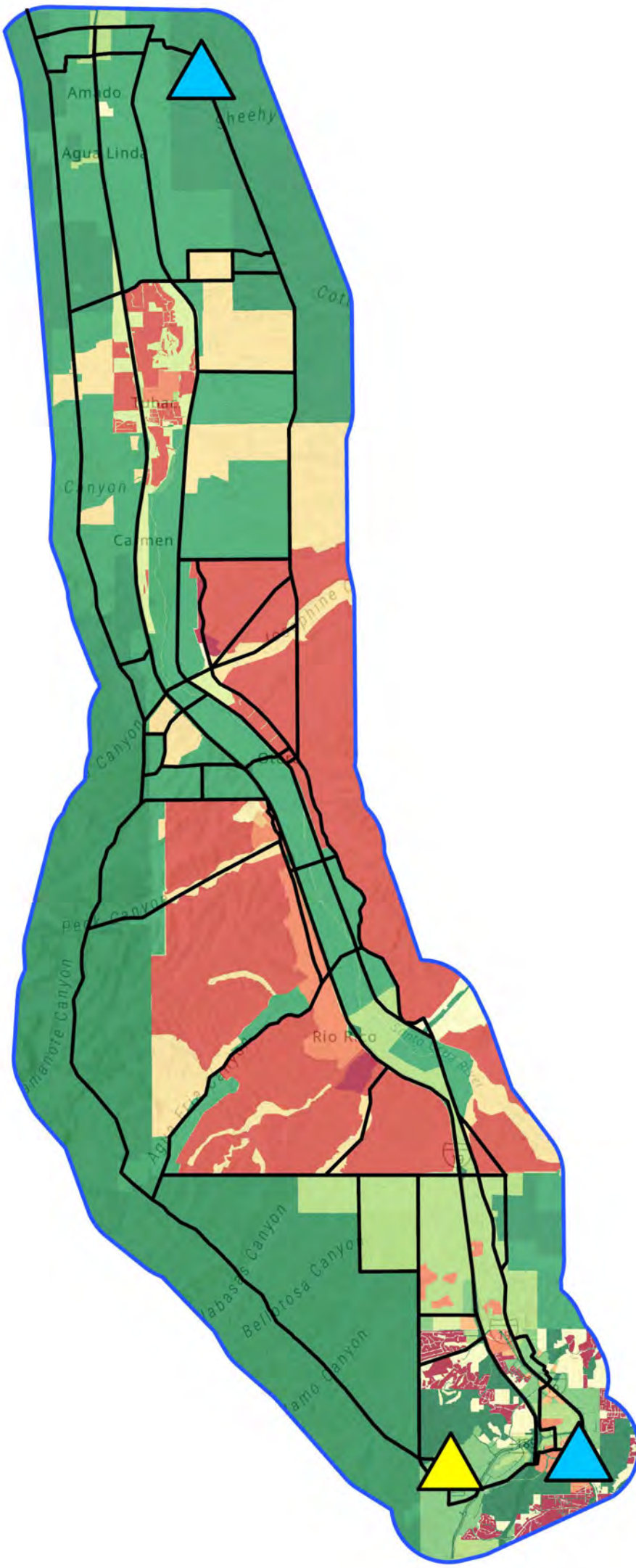
Criteria 5. Historic Properties and Districts



Criteria 6. Scenic & Visual Resources



Criteria 7. Construction and Maintenance




Criteria 8. Existing Plans

Legend


Planned Substation

Existing Substation

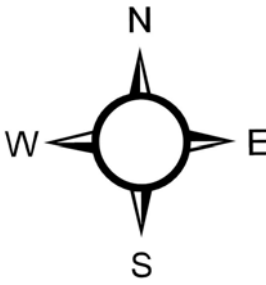
Draft Segments

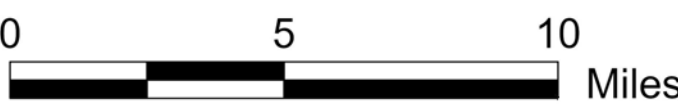
Study Area

Most Suitable



Least Suitable

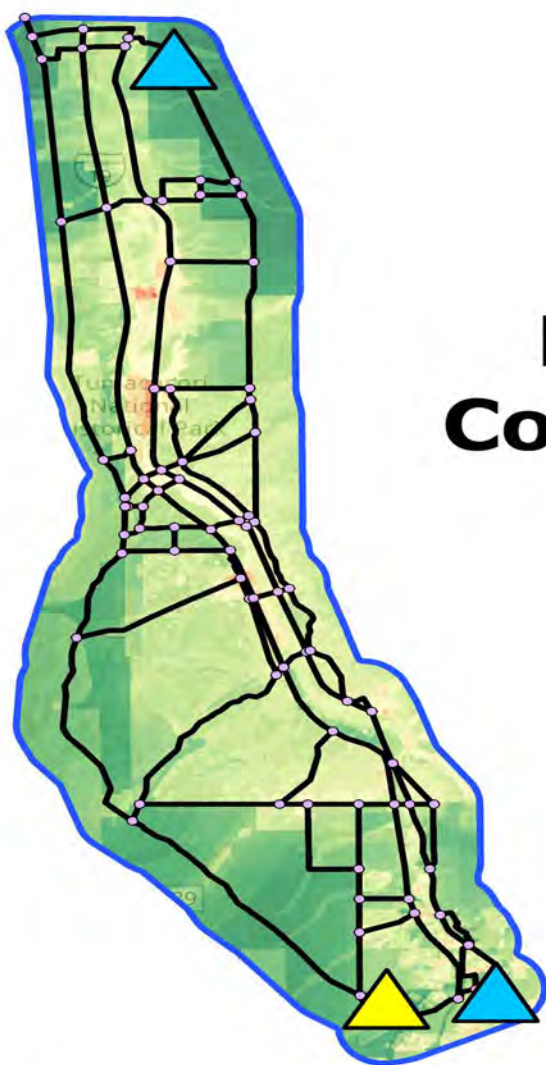
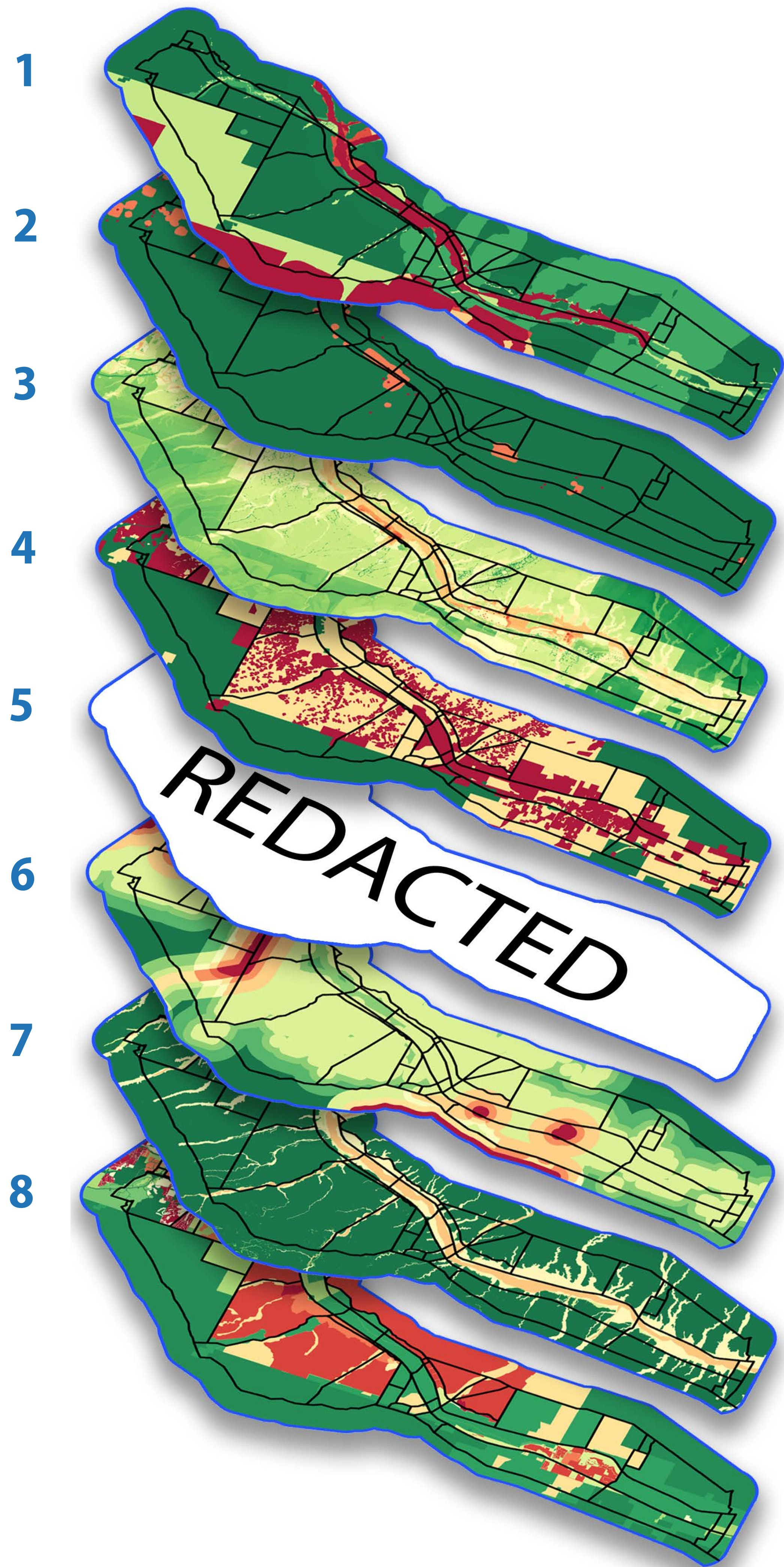




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Composite Suitability Methodology

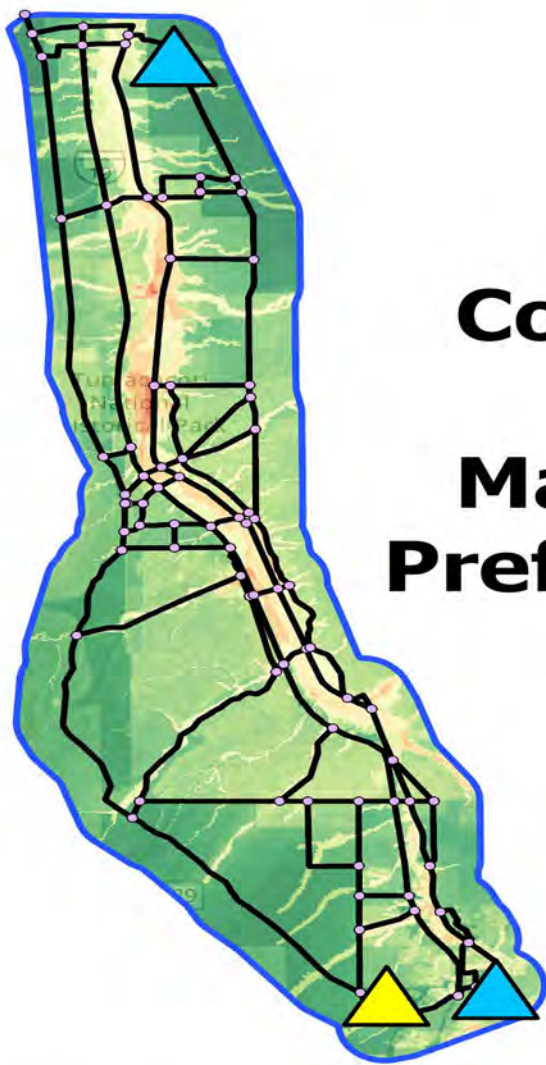
- Criteria 1: Biological Resources
- Criteria 2: Noise & Communications
- Criteria 3: Total Environment
- Criteria 4: Existing & Future Residential Properties Adjacent to Transmission Lines
- Criteria 5: Historic Properties & Districts
- Criteria 6: Scenic & Visual Resources
- Criteria 7: Construction & Maintenance
- Criteria 8: Existing Plans



Balanced
Compatibility
Model



Environmentally
Preferred
Model



Construction
and
Maintenance
Preferred Model

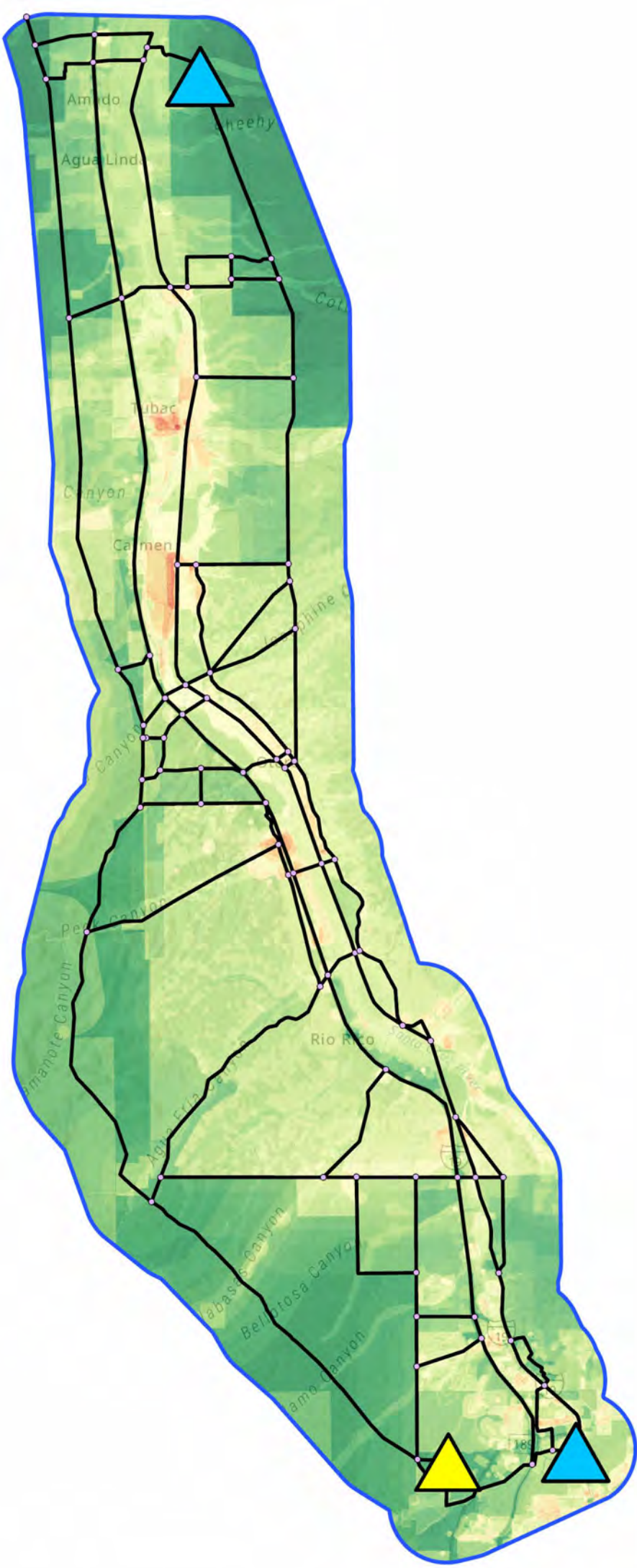


Residential
and Visual
Resources
Preferred
Model

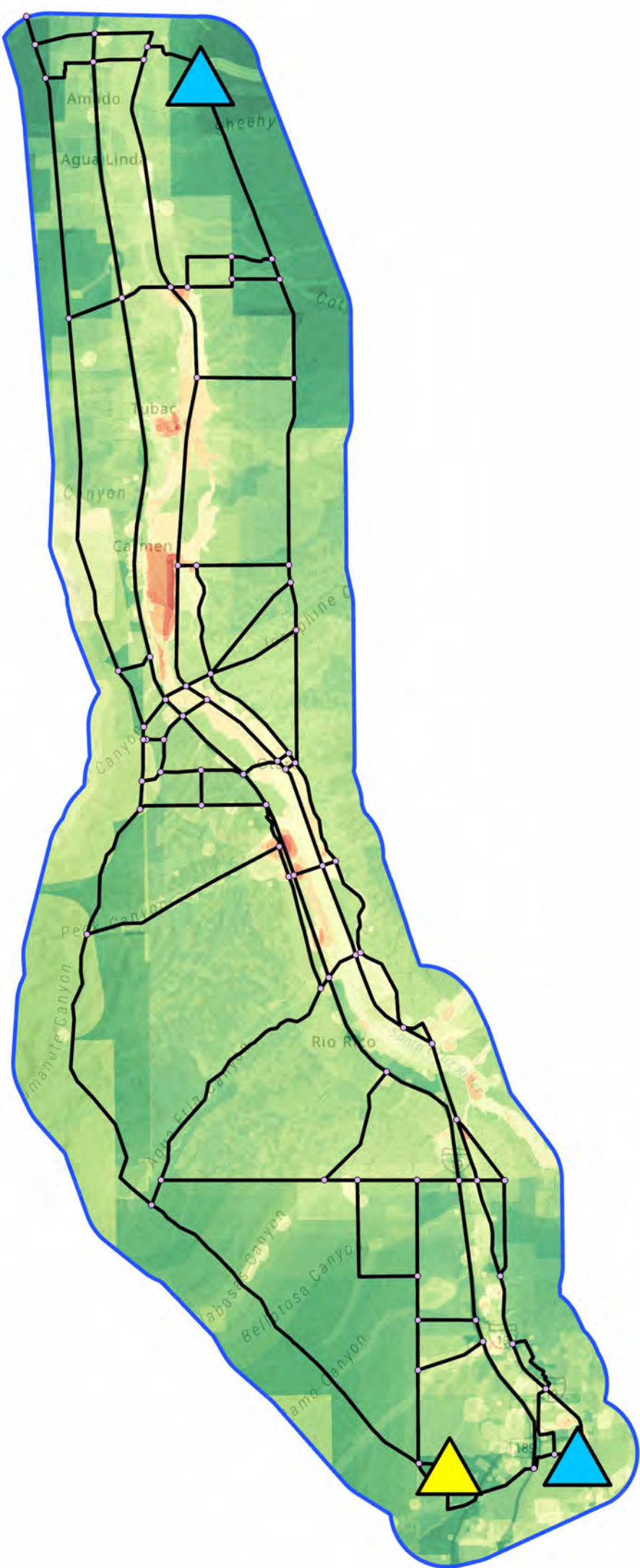


Public,
Stakeholder,
and Agency
Preferred
Model

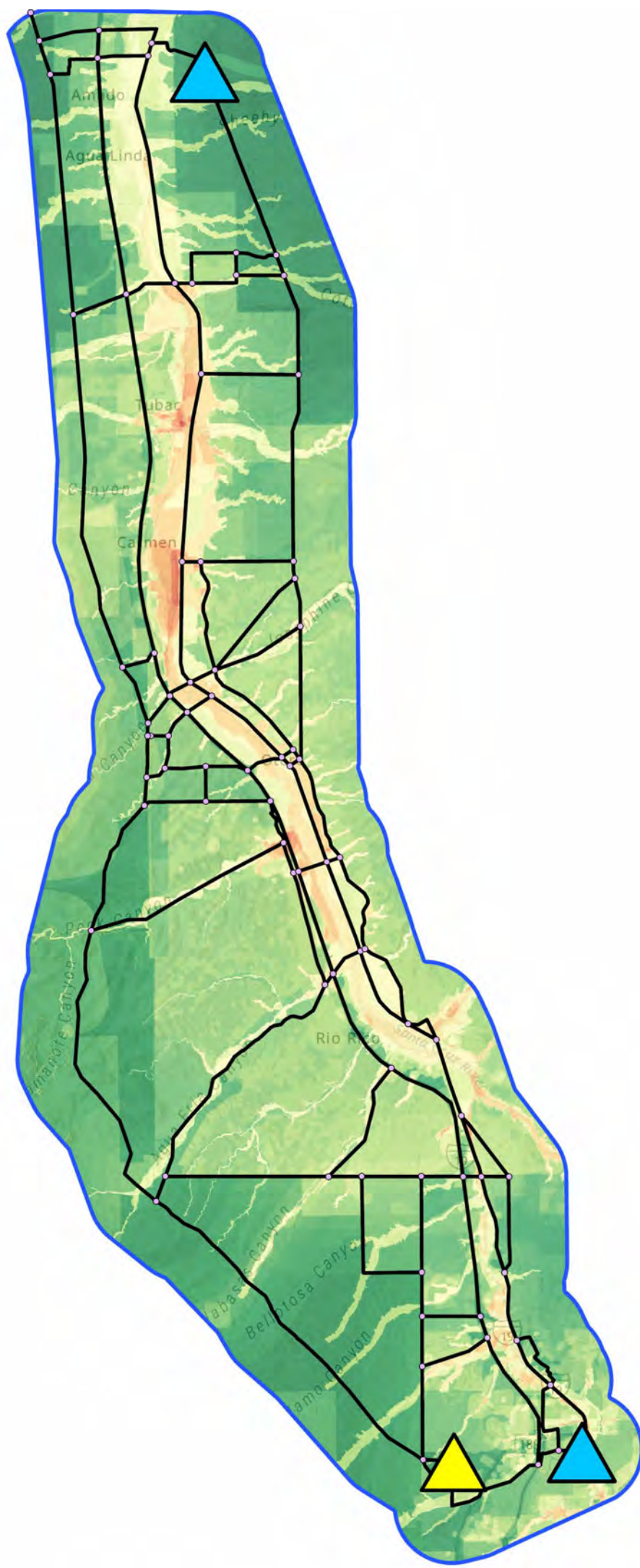
Composite Suitability Models



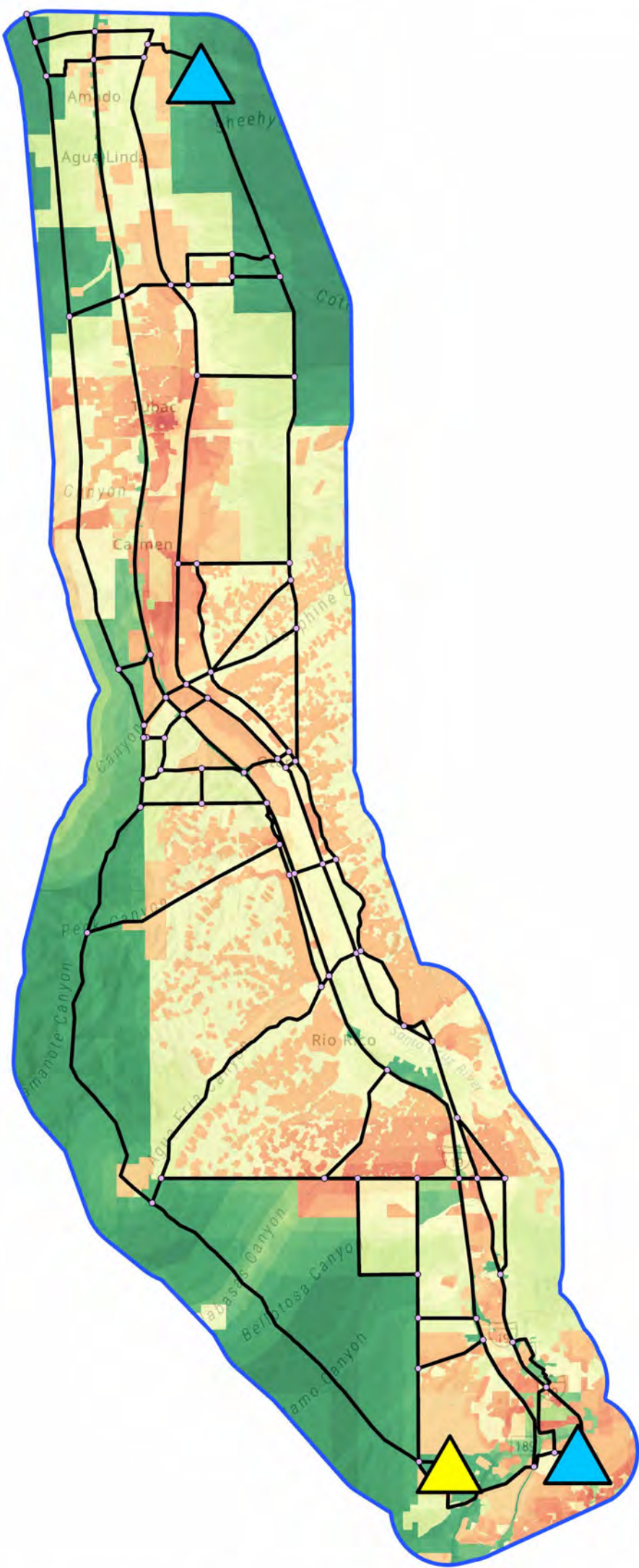
Balanced Compatibility Model



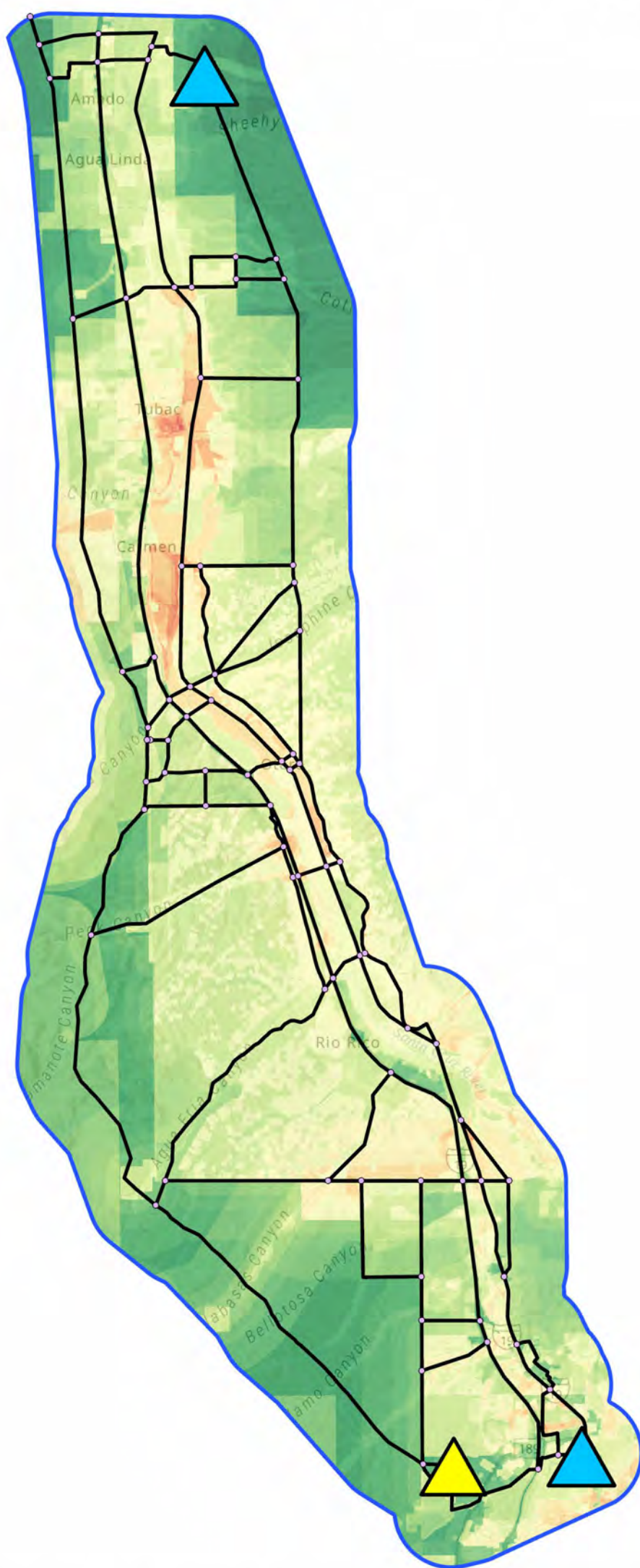
Environmentally Preferred Model



Construction and Maintenance Preferred Model



Residential and Visual Resources Preferred Model



Public, Stakeholder, and Agency Preferred Model

Legend

- Planned Substation
- Existing Substation
- Draft Segments
- Study Area








Most Suitable Least Suitable

0 5 10 Miles

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Siting Considerations

The Arizona Corporation Commission will consider several factors before approving a Certificate of Environmental Compatibility. These factors, used by UniSource to analyze potential line routes, include:

- | | | | |
|---|--|---|---|
|  | Wildlife & plant life |  | Existing development plans |
|  | Scenic areas, historic sites & archaeological sites and structures |  | Engineering feasibility and challenges |
|  | Environment |  | Project costs & potential impacts on customer rates |
|  | Noise emission levels & interference with communication signals |  | Public input |
|  | Potential public recreational uses | | |



Interested in shaping the evaluation of transmission line routes? Scan the QR code or complete a comment form to share your perspective on the values that matter most to you in this assessment.

We Want To Hear From You

How to Provide Official Public Comment:

Fill out an online comment form at:
uesaz.com/santa-cruz-reliability-project-south

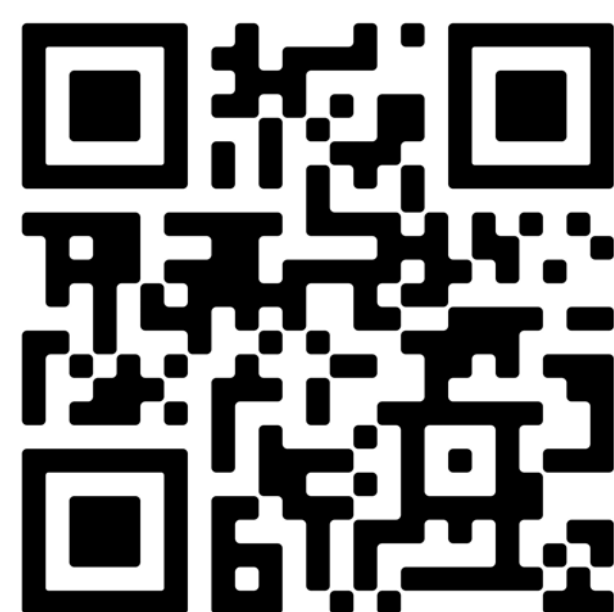
Email comment to:
scrsouth@uesaz.com

Call:
(520) 917-6637 and leave a voicemail message

Mail a letter with commentr to:
ATTN: Santa Cruz Reliability - South
P.O. Box 711
Mail Stop CB200
Tucson, AZ 85702

An interactive map is posted on our website.

More Information
uesaz.com/santa-cruz-reliability-project-south/



Cómo proporcionar un comentario público oficial:

Llenando un formulario de comentarior en línea:
uesaz.com/santa-cruz-reliability-project-south

Enviando comentario por correo electrónico a:
scrsouth@uesaz.com

Llamando al:
(520) 917-6637 y dejando un mensaje de voz

Enviando una carta con comentario a:
A/A: Confiabilidad de Santa Cruz Sur
P.O. Box 711
Mail Stop CB200
Tucson, AZ 85702

Para ver un mapa interactivo, visite la página web del proyecto.

Más información
uesaz.com/proyecto-de-confiabdad-de-santa-cruz-norte

