



Tucson Electric Power

Midtown Reliability Project 138 kV Transmission Line Project

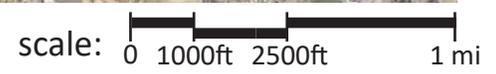
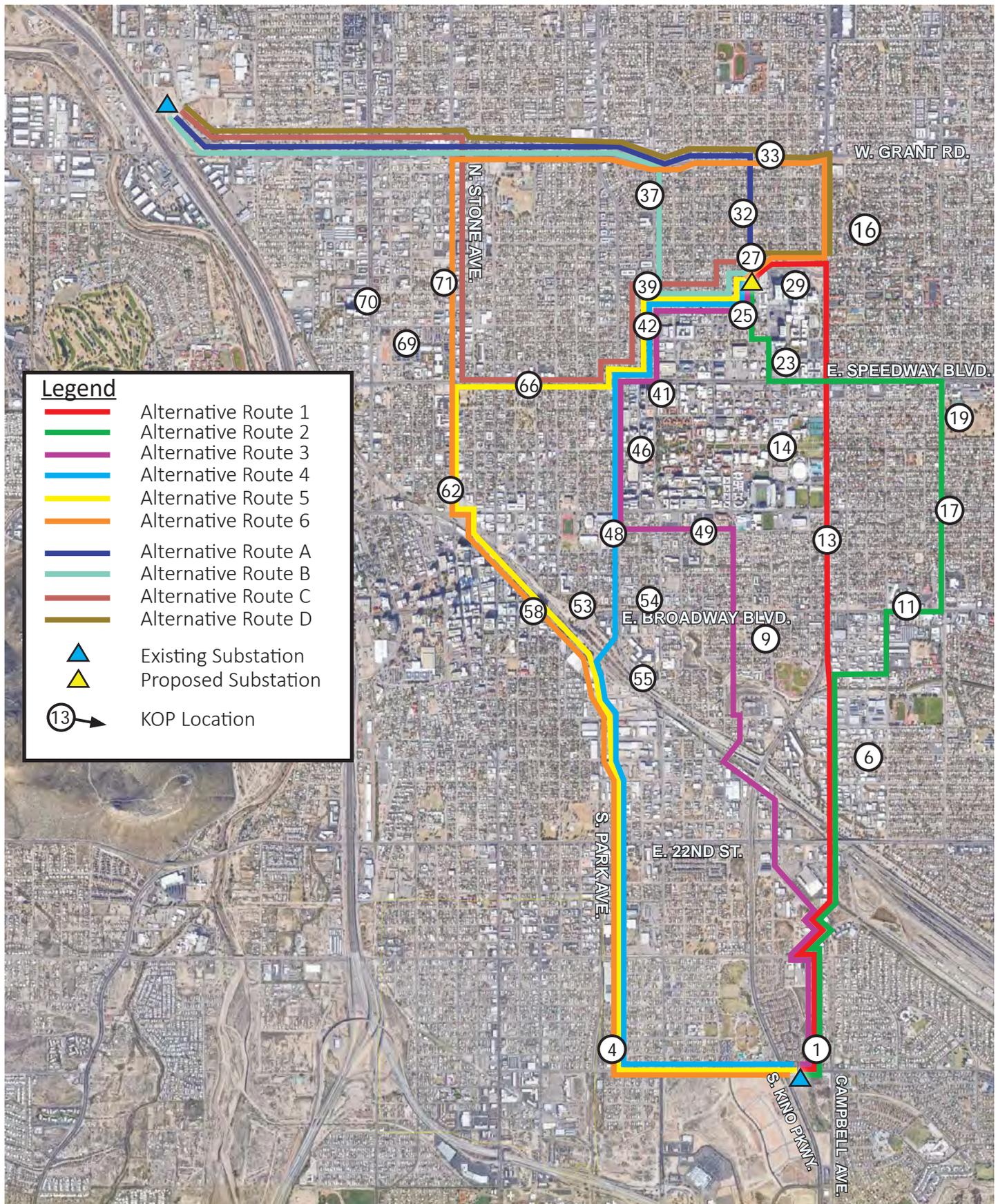
Visual Simulation Package

Prepared By:
Jeremy Palmer | Sole Proprietor

March 28, 2024

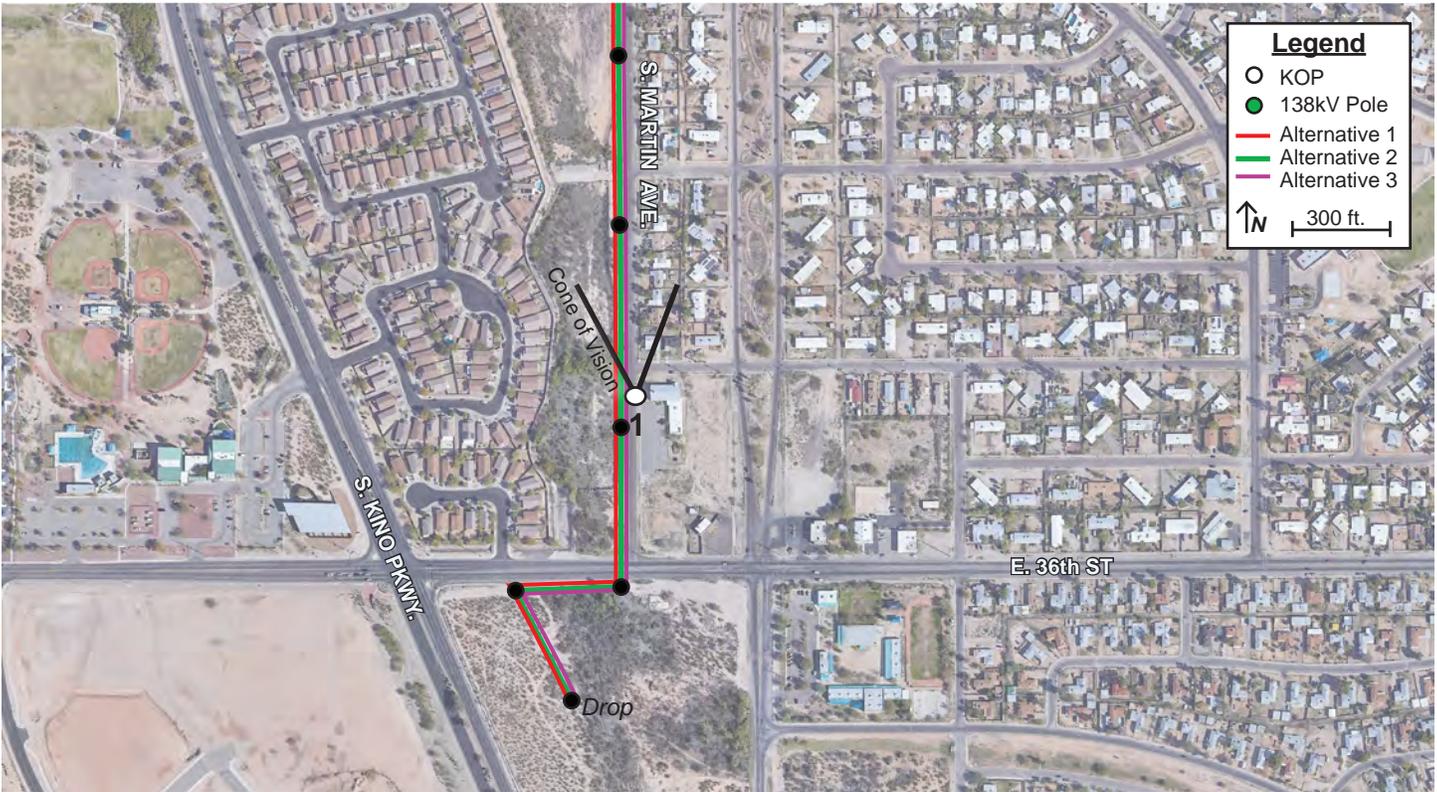
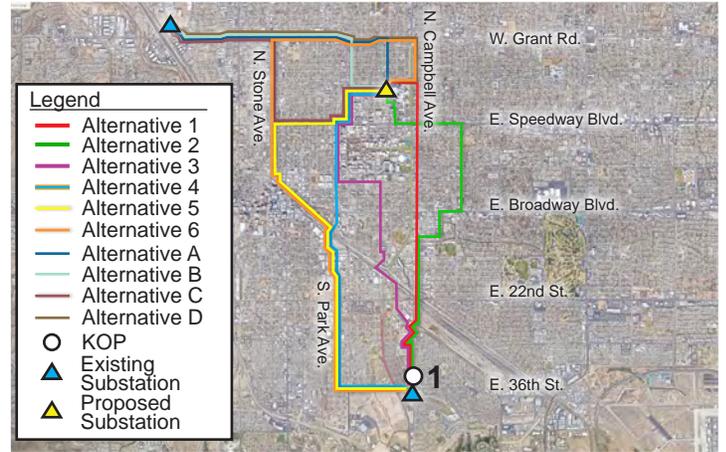
Midtown Reliability 138 kV Transmission Line Project

Key Observation Point (KOP) - Key Map



Key Observation Point (KOP) # 1

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents and church visitors
- Location: 2437 S. Martin Ave.
- Latitude: 32.193808° N; Longitude: 110.944719° W
- View Point Elevation at Eye Level: 2,486 ft.
- Looking: north
- Poles Visible: Alternative 1, 2, or 3 structures
- Image File Name: IMG_3104.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 1:57 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 562 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #1



Current Condition

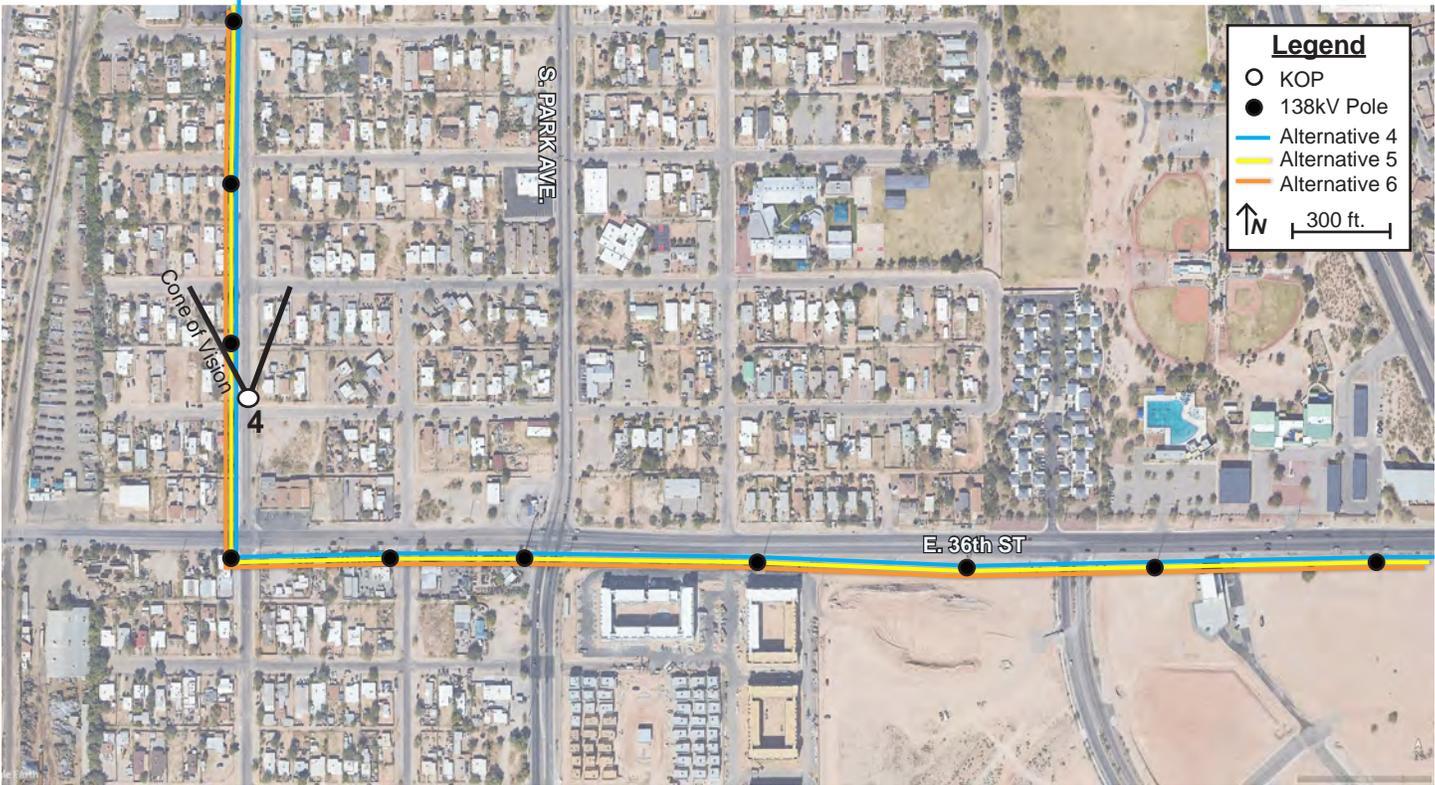
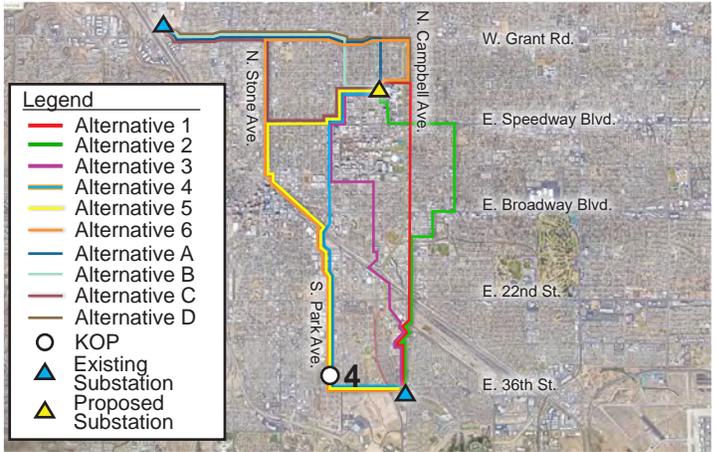


Simulated Condition

Alternative 1,2,3

Key Observation Point (KOP) # 4

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 2498 S. Euclid Ave.
- Latitude: 32.193627° N; Longitude: 110.959128° W
- View Point Elevation at Eye Level: 2,455 ft.
- Looking: north
- Poles Visible: Alternative 4, 5, or 6 structures
- Image File Name: IMG_3132.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 2:11 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 158 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #4



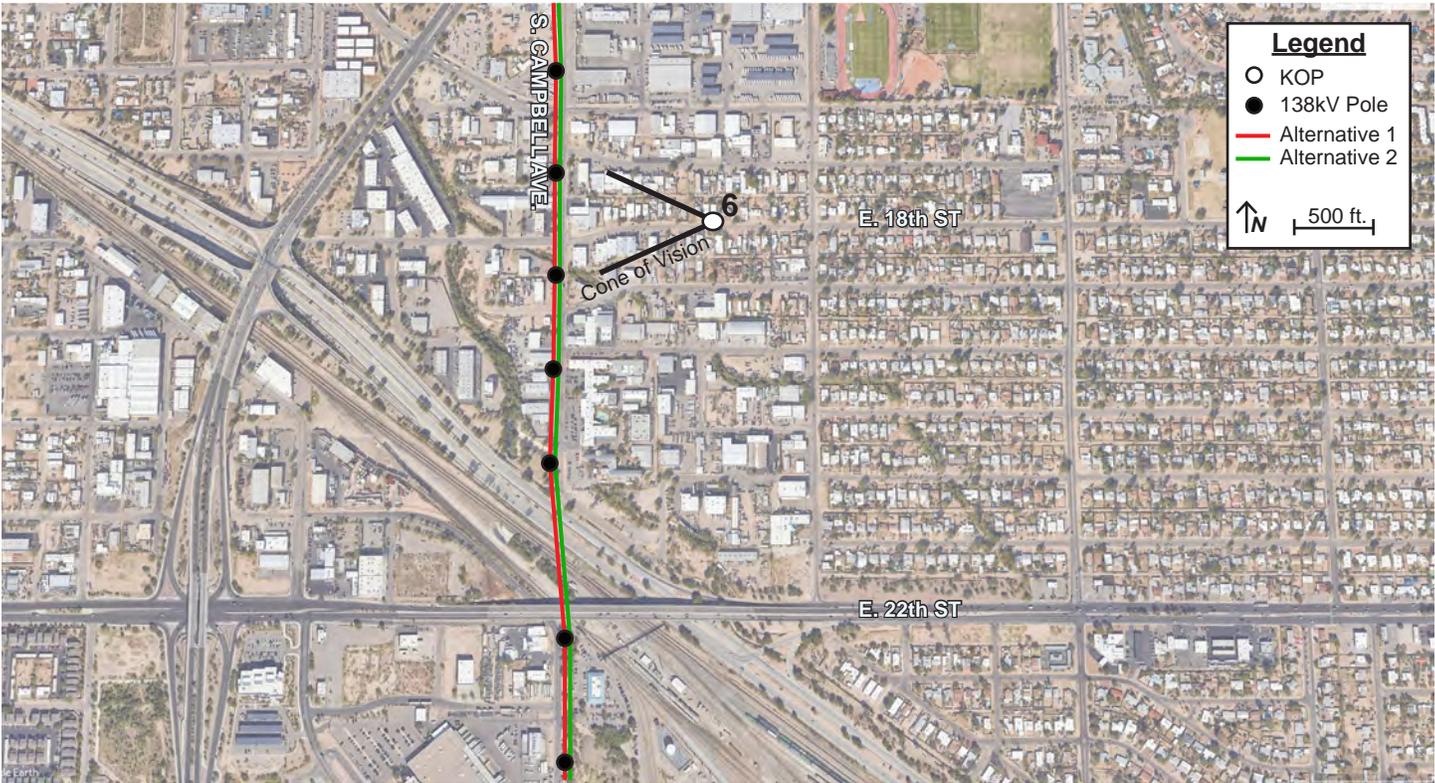
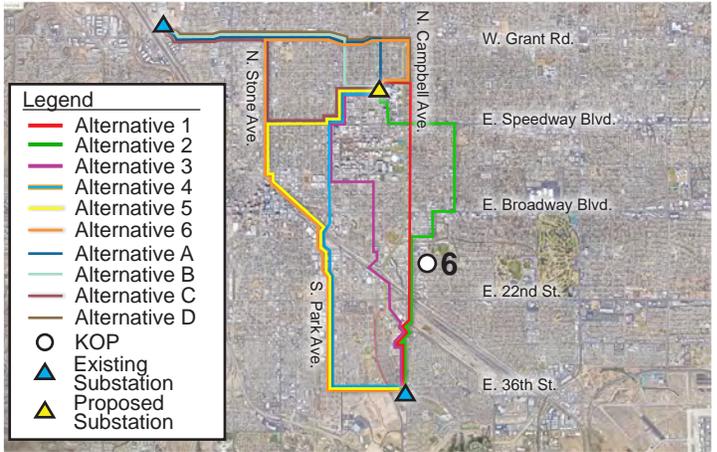
Current Condition



Simulated Condition

Key Observation Point (KOP) # 6

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 50mm | F-Stop: f/10 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 2032 E. 18th St.
- Latitude: 32.212435° N; Longitude: 110.941389° W
- View Point Elevation at Eye Level: 2,450 ft.
- Looking: west
- Poles Visible: Alternative 1, or 2 structures
- Image File Name: IMG_3158.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 2:25 pm
- The image is based on a single photo and represent approximately 39.5 degree horizontal field of view.
- This view is approximately 780 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #6



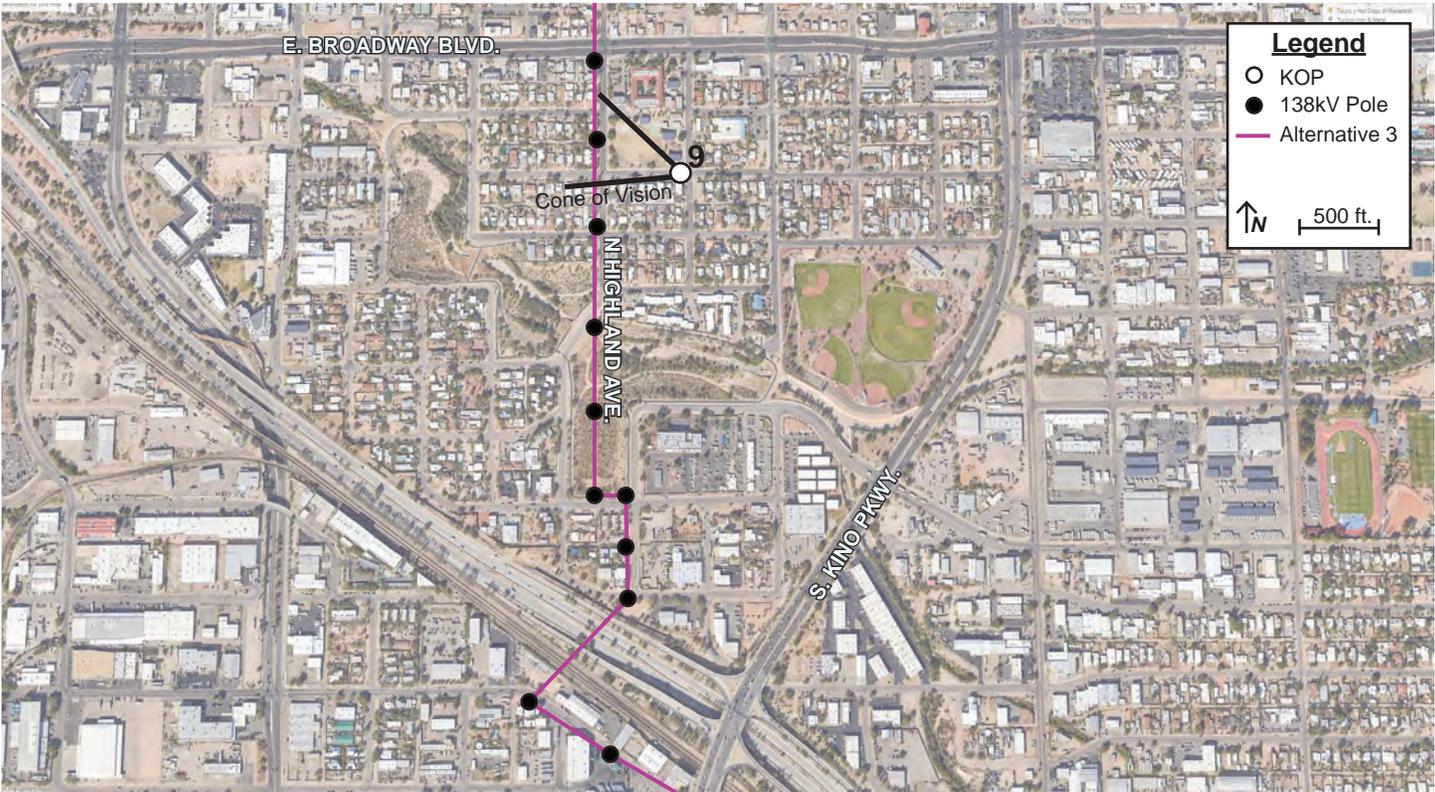
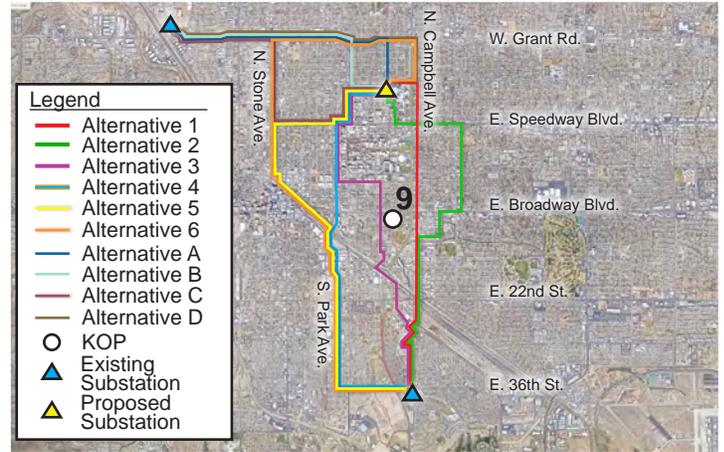
Current Condition



Simulated Condition

Key Observation Point (KOP) # 9

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 1311 E Miles St
- Latitude: 32.219487° N; Longitude: 110.949774° W
- View Point Elevation at Eye Level: 2,421 ft.
- Looking: northwest
- Poles Visible: Alternative 3 structures
- Image File Name: IMG_3222.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 2:40 pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 479 feet southeast of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #9



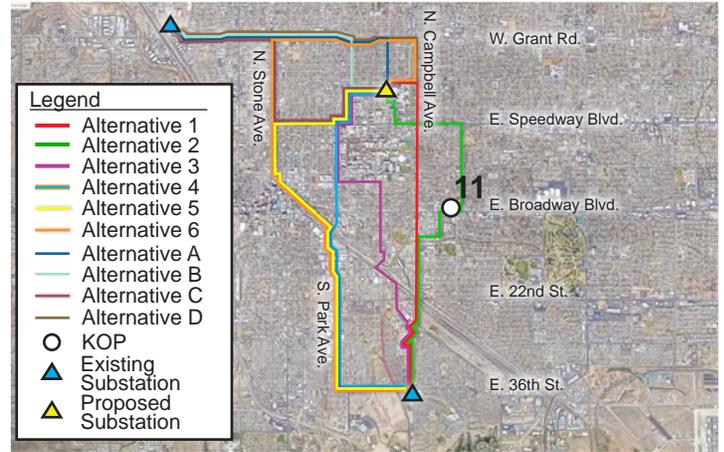
Current Condition



Simulated Condition

Key Observation Point (KOP) # 11

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents and commercial traffic
- Location: 2221 E. Broadway Blvd
- Latitude: 32.221680° N; Longitude: 110.939021° W
- View Point Elevation at Eye Level: 2,458 ft.
- Looking: east
- Poles Visible: Alternative 2 structures
- Image File Name: IMG_3245.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 2:53 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 305 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #11



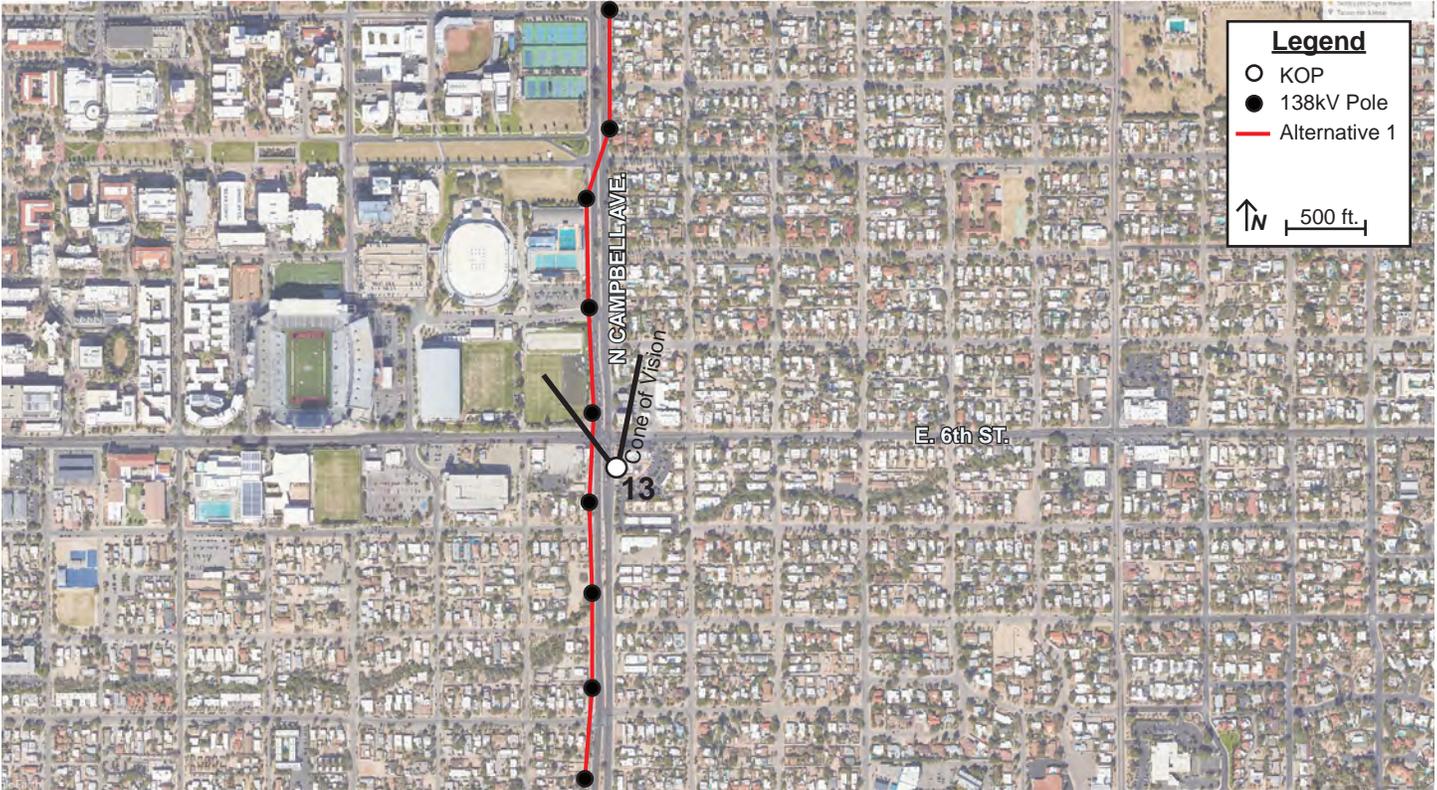
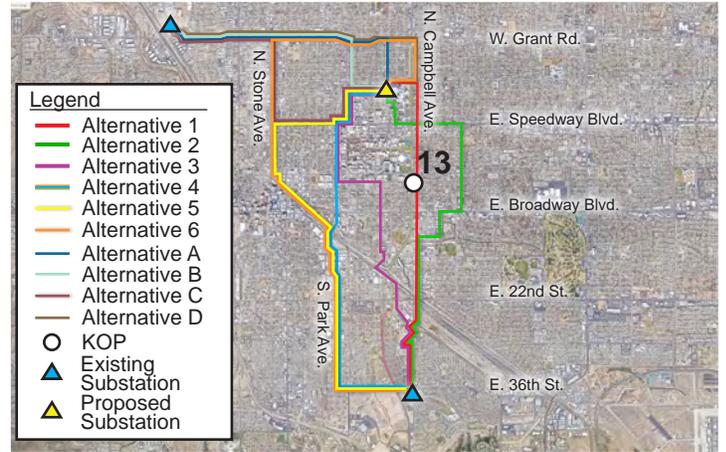
Current Condition



Simulated Condition

Key Observation Point (KOP) # 13

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/8 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, student, stadium and commercial traffic
- Location: 446 N Campbell Ave.
- Latitude: 32.227523° N; Longitude: 110.943689° W
- View Point Elevation at Eye Level: 2,449 ft.
- Looking: north
- Poles Visible: Alternative 1 structures
- Image File Name: IMG_3311.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 3:17 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 305 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #13



Current Condition



Simulated Condition

Weathered Finish

[return to map](#)

Key Observation Point (KOP) #13



Current Condition



Simulated Condition

Galvanized Finish

[return to map](#)

Key Observation Point (KOP) #13



Current Condition

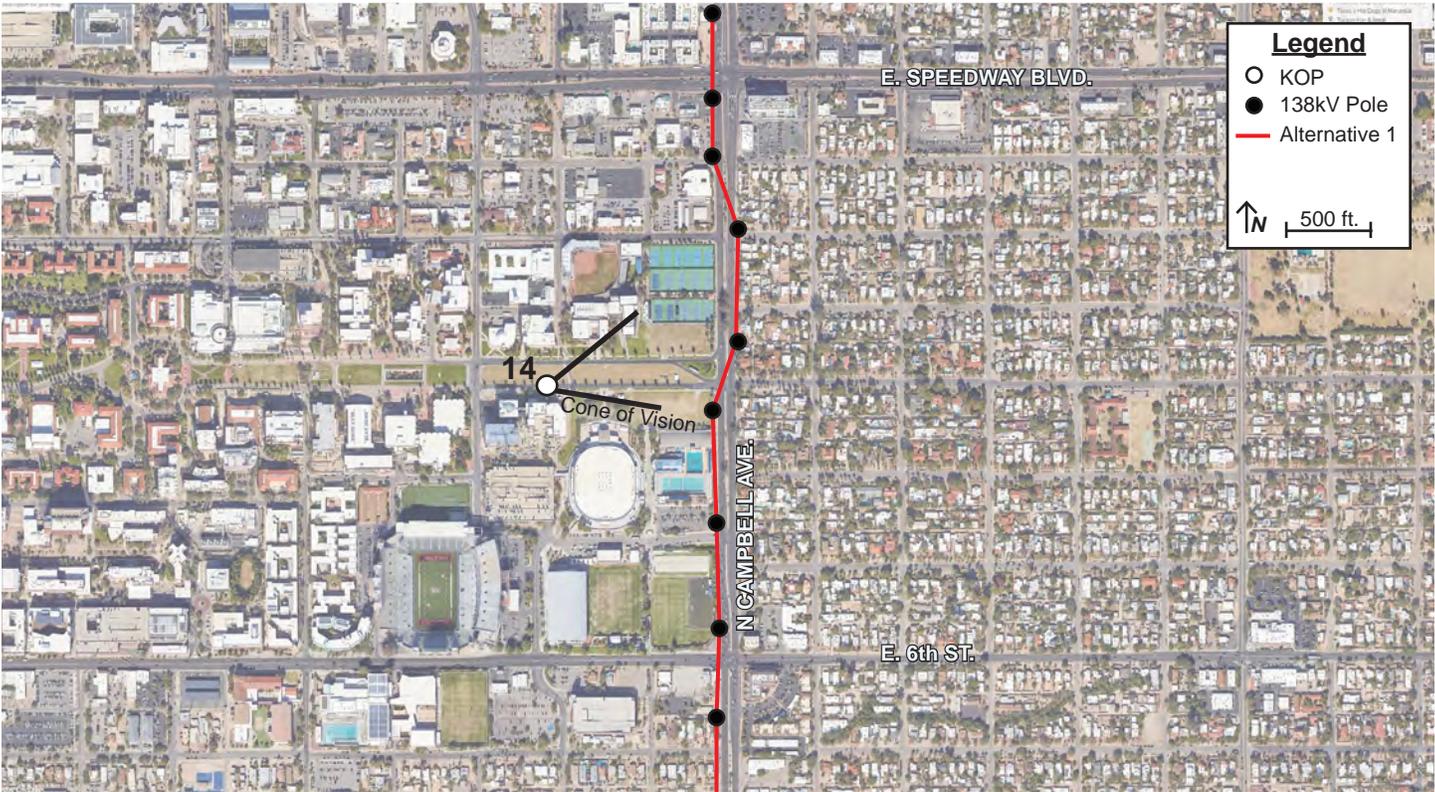
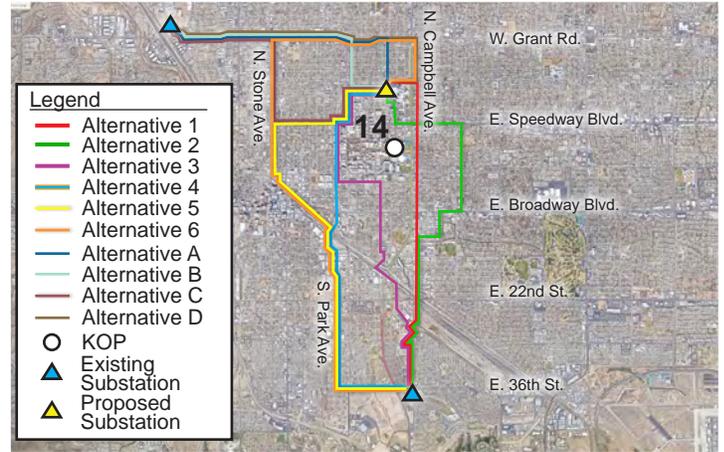


Simulated Condition

Sage Green Finish

Key Observation Point (KOP) # 14

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 70mm | F-Stop: f/6.3 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: students, stadium, commercial traffic
- Location: 1630 E. University Ave.
- Latitude: 32.231731° N; Longitude: 110.947070° W
- View Point Elevation at Eye Level: 2,447 ft.
- Looking: east
- Poles Visible: Alternative 1 structures
- Image File Name: IMG_3347.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 3:29 pm
- The image is based on a single photo and represent approximately 28.8 degree horizontal field of view.
- This view is approximately 1,057 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #14



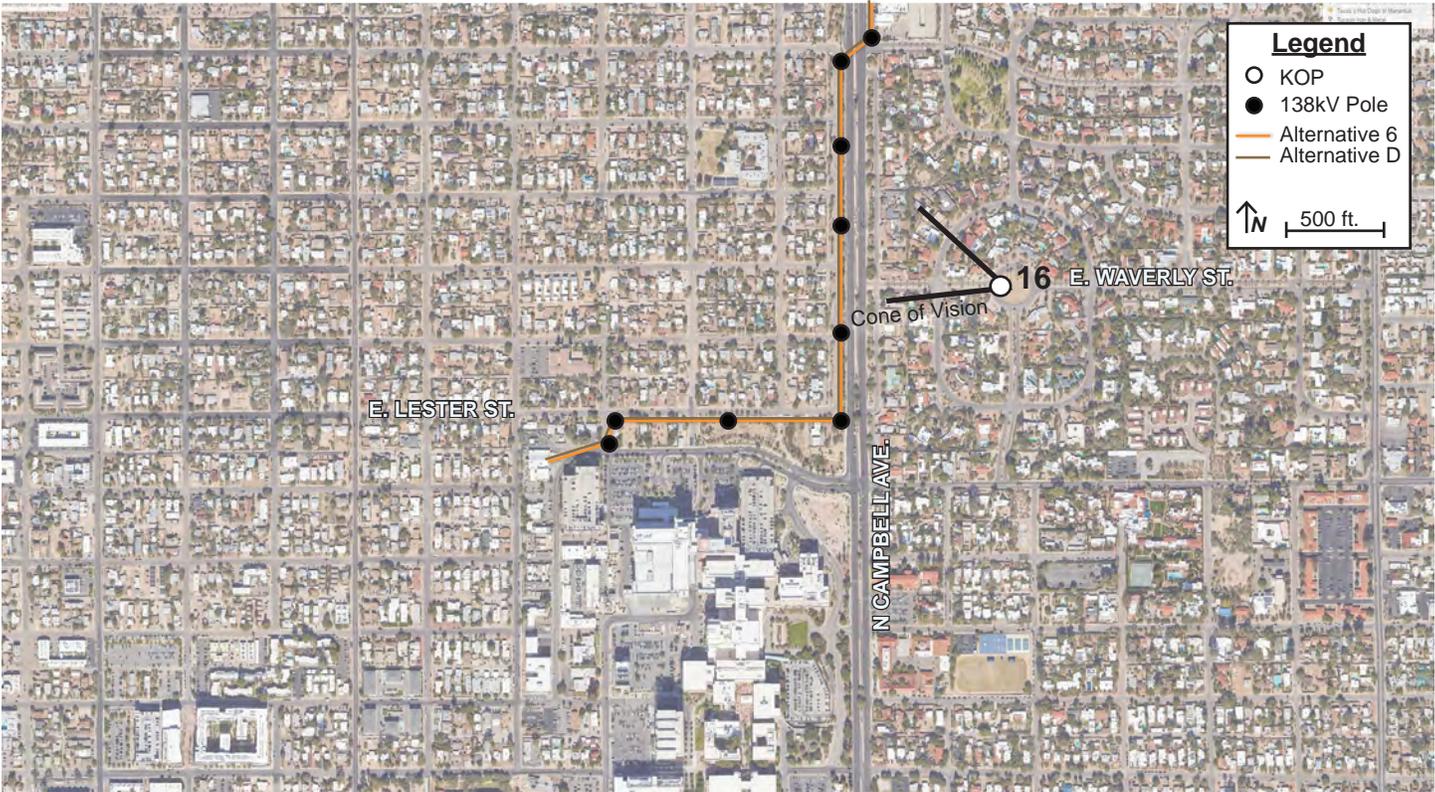
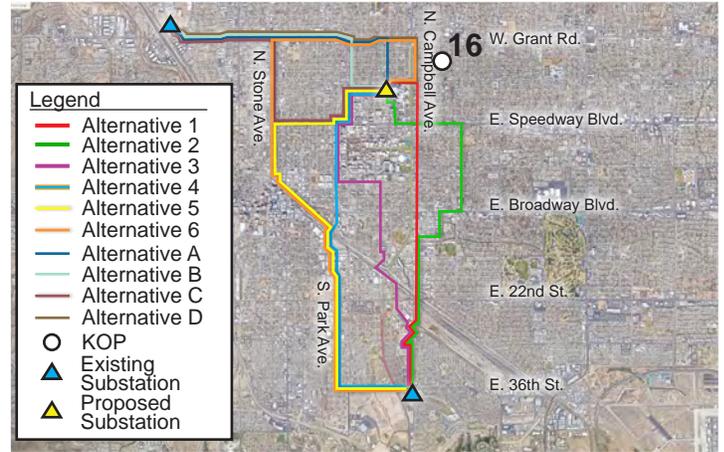
Current Condition



Simulated Condition

Key Observation Point (KOP) # 16

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/8 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 2125 E Waverly St.
- Latitude: 32.245451° N; Longitude: 110.941625° W
- View Point Elevation at Eye Level: 2,438 ft.
- Looking: west
- Poles Visible: Alternative 6 or D structures
- Image File Name: IMG_3340.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 4:05 pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 886 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #16



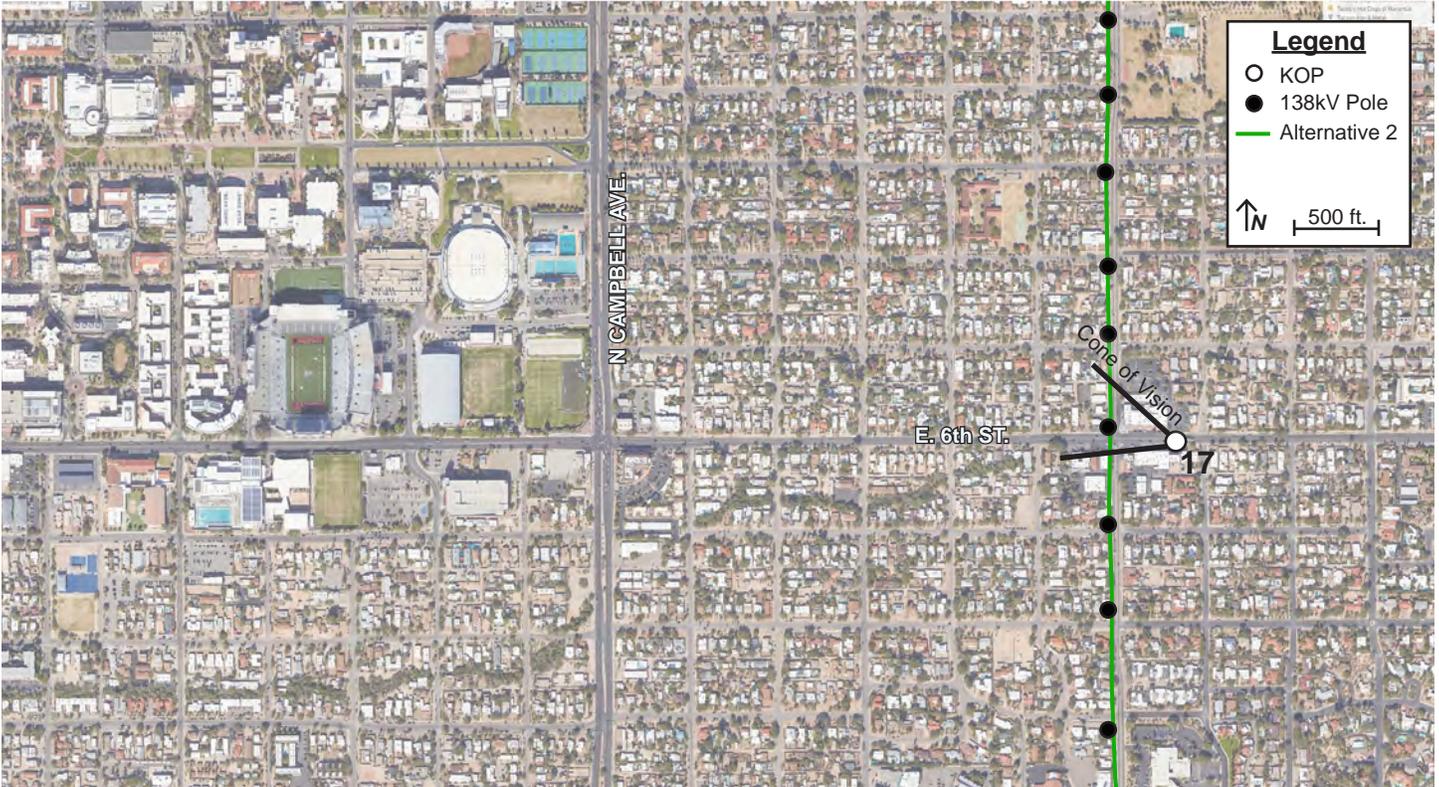
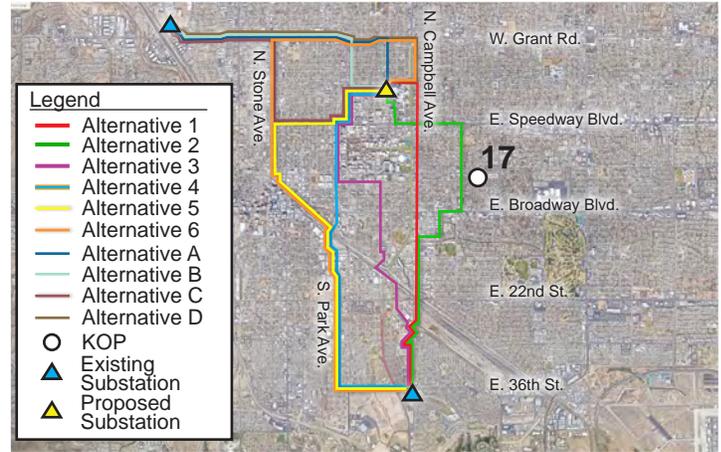
Current Condition



Simulated Condition

Key Observation Point (KOP) # 17

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/8 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, student, and commercial traffic
- Location: 2530 E 6th St.
- Latitude: 32.227780° N; Longitude: 110.934457° W
- View Point Elevation at Eye Level: 2,462 ft.
- Looking: west
- Poles Visible: Alternative 2 structures
- Image File Name: IMG_3376.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 3:42 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 315 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #17



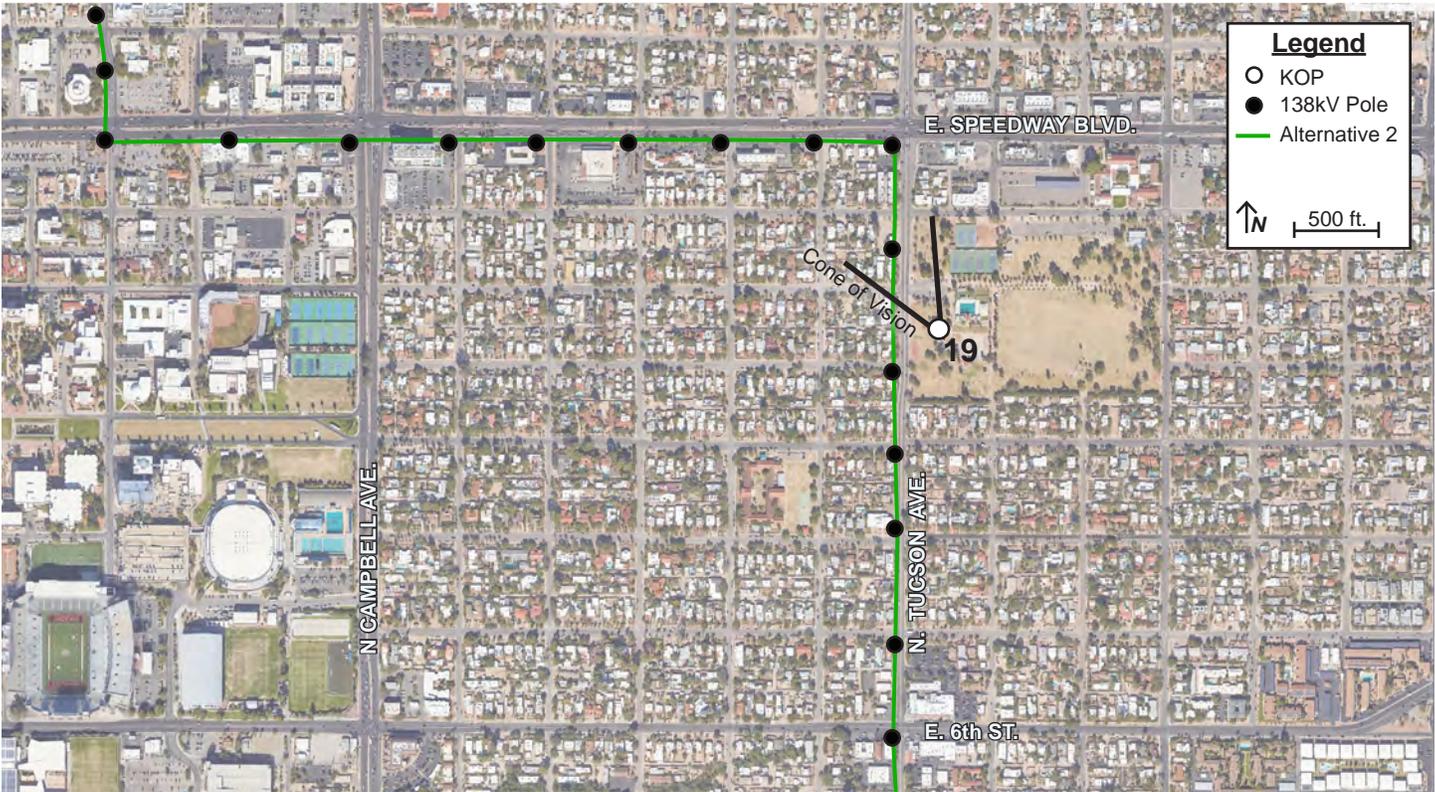
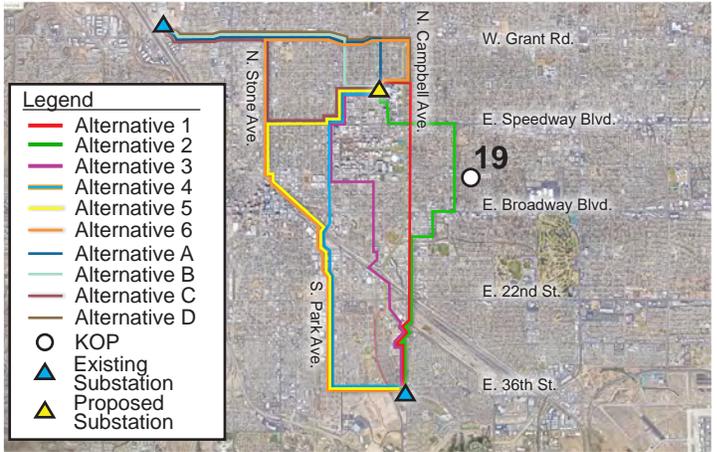
Current Condition



Simulated Condition

Key Observation Point (KOP) # 19

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: recreational users @ Himmel Park
- Location: Himmel Park
- Latitude: 32.233364° N; Longitude: 110.935004° W
- View Point Elevation at Eye Level: 2,469 ft.
- Looking: northwest
- Poles Visible: Alternative 2 structures
- Image File Name: IMG_3419.JPG

Simulation Notes

- Photo Taken: March 3rd, 2024 at 3:55 pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 400 feet southeast of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #19



Current Condition



Simulated Condition

Weathered Finish

Key Observation Point (KOP) #19



Current Condition

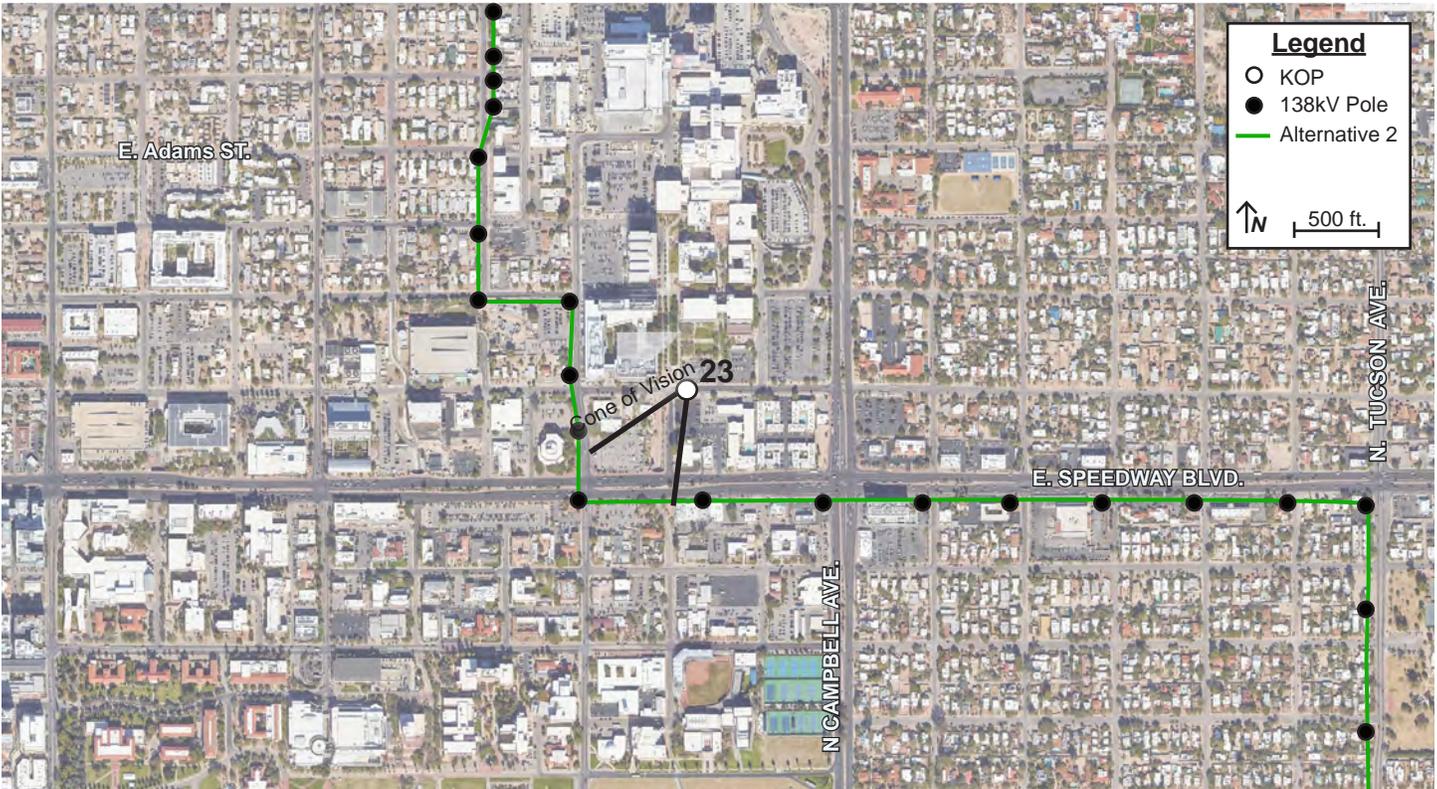
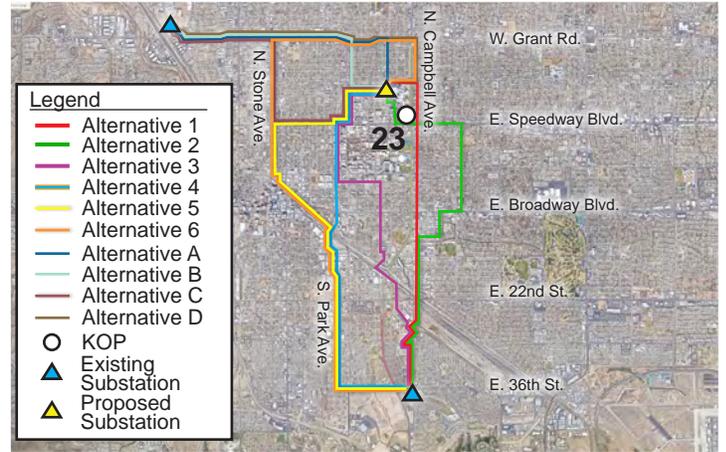


Simulated Condition

Galvanized Finish

Key Observation Point (KOP) # 23

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: students and streetcar riders
- Location: Helen St. Street Car Station
- Latitude: 32.237150° N; Longitude: 110.946947° W
- View Point Elevation at Eye Level: 2,463 ft.
- Looking: southwest
- Poles Visible: Alternative 2 structures
- Image File Name: IMG_3545.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 9:59 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 735 feet northeast of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #23



Current Condition



Simulated Condition

Weathered Finish

[return to map](#)

Key Observation Point (KOP) #23



Current Condition

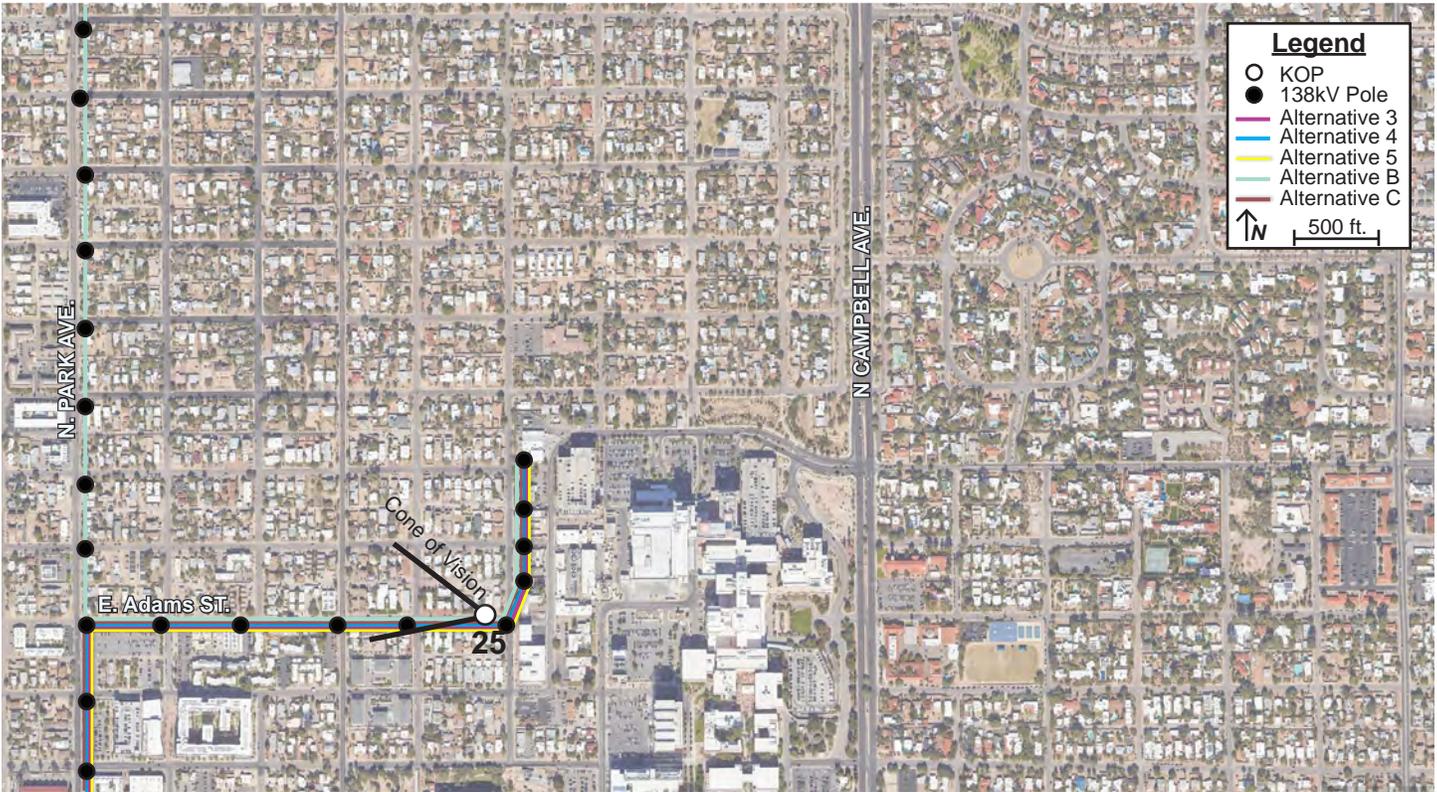
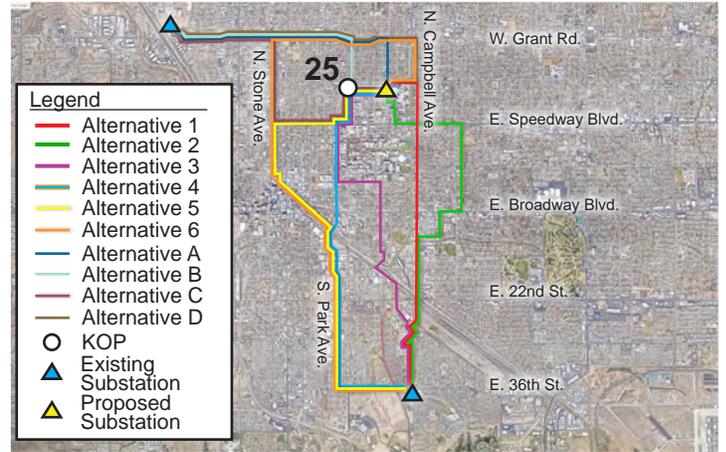


Simulated Condition

Sage Green Finish

Key Observation Point (KOP) # 25

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 50mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 1439 E Adam St
- Latitude: 32.240687° N; Longitude: 110.950391° W
- View Point Elevation at Eye Level: 2,454 ft.
- Looking: west
- Poles Visible: Alternative 3,4,5,B,or C structures
- Image File Name: IMG_3552.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:05 am
- The image is based on a single photo and represent approximately 39.5 degree horizontal field of view.
- This view is approximately 287 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #25



Current Condition



Simulated Condition

Weathered Finish

[return to map](#)

Key Observation Point (KOP) #25



Current Condition



Simulated Condition

Galvanized Finish

Key Observation Point (KOP) #25



Current Condition

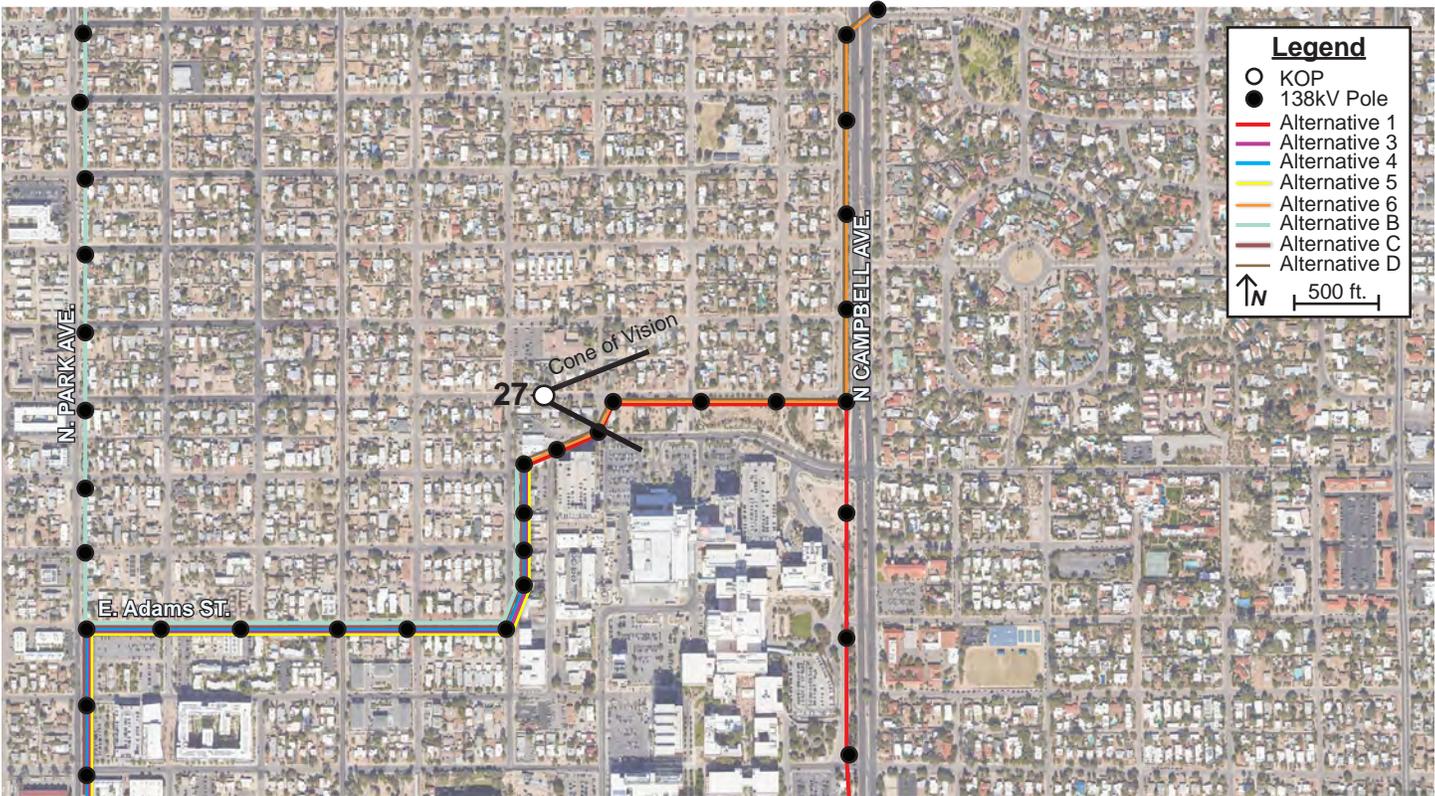
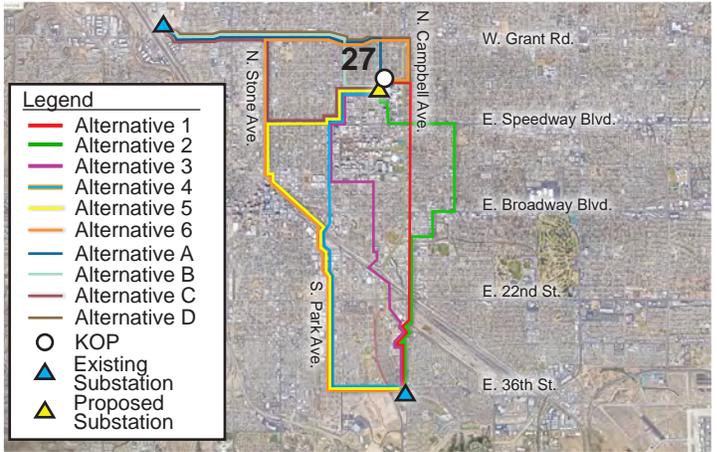


Simulated Condition

Sage Green Finish

Key Observation Point (KOP) # 27

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/10 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 1517 E Lester St.
- Latitude: 32.243709° N; Longitude: 110.949300° W
- View Point Elevation at Eye Level: 2,423 ft.
- Looking: east
- Poles Visible: Alternative 1,6, or D structures
- Image File Name: IMG_3566.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:11 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 348 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #27



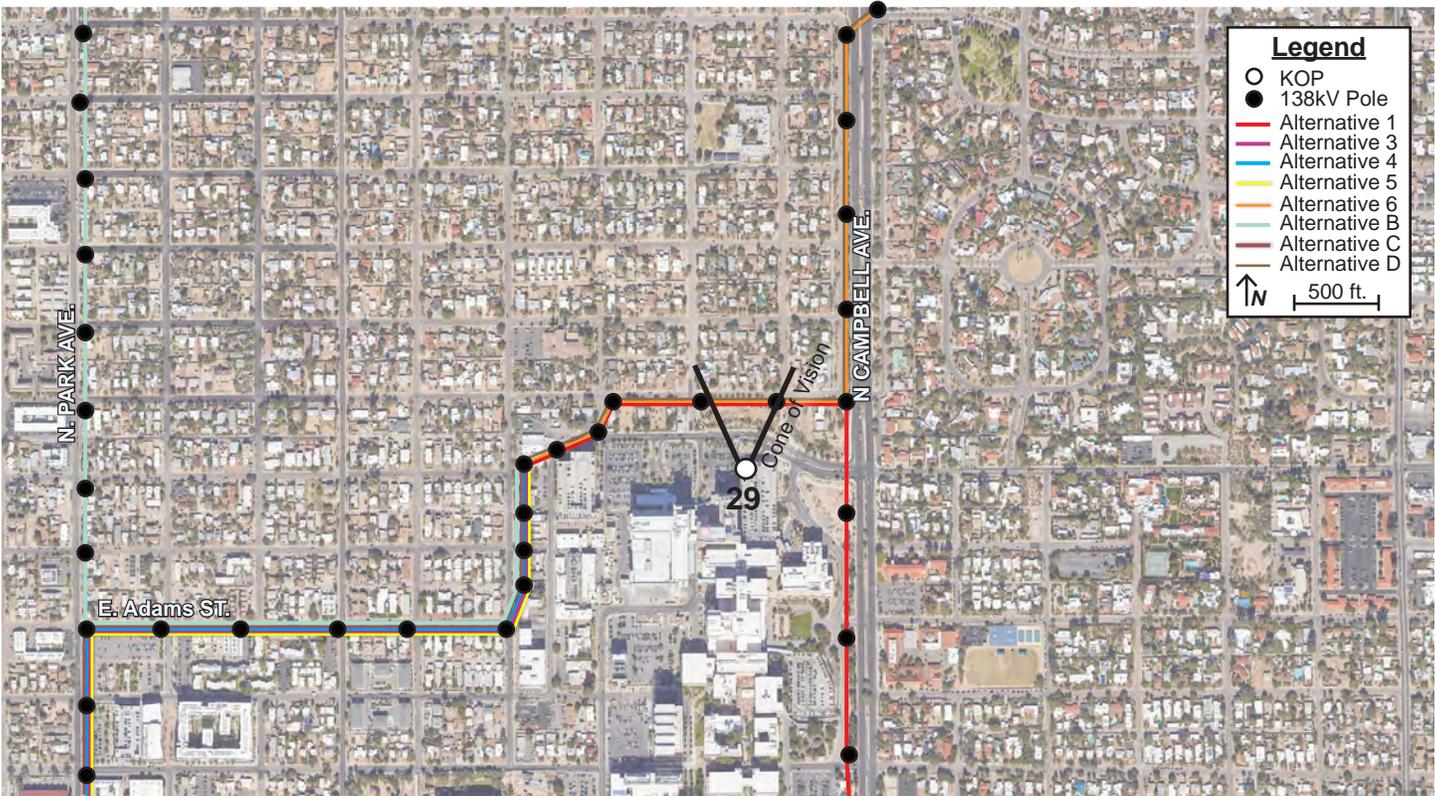
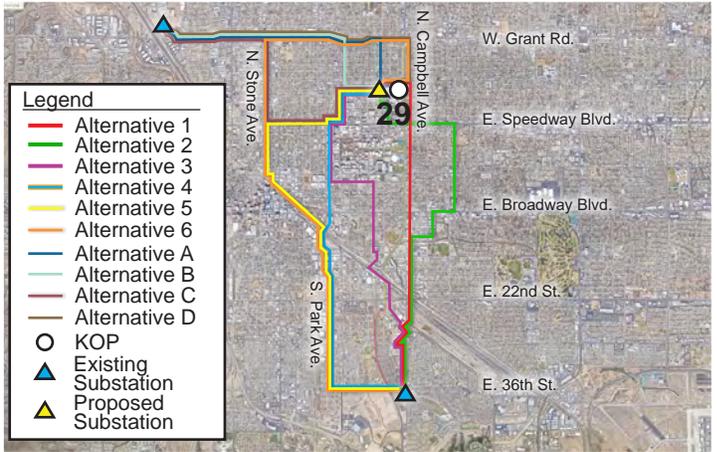
Current Condition



Simulated Condition

Key Observation Point (KOP) # 29

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/8 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Hospital visitors and staff
- Location: Elevated Hospital View
- Latitude: 32.242810° N; Longitude: 110.945952° W
- View Point Elevation at Eye Level: 2,453 ft.
- Looking: north
- Poles Visible: Alternative 1,6, or D structures
- Image File Name: IMG_3604.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:19 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 314 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #29



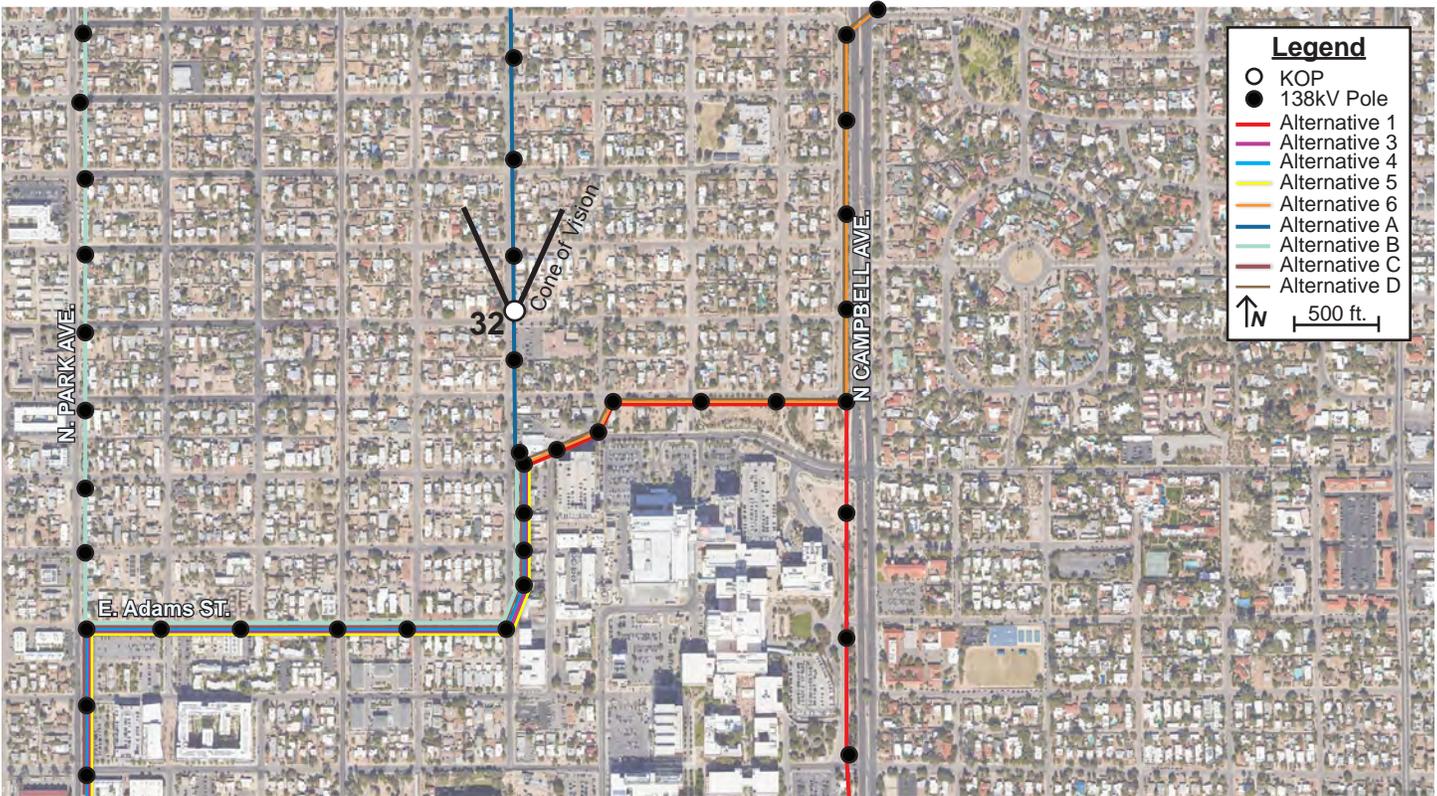
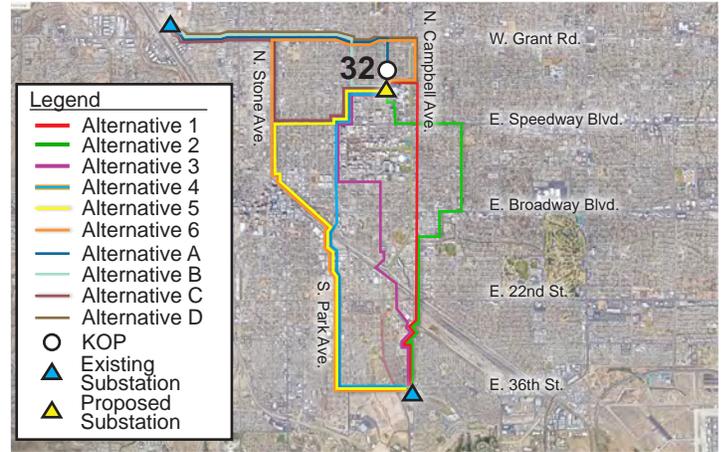
Current Condition



Simulated Condition

Key Observation Point (KOP) # 32

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 1950 Vine Ave
- Latitude: 32.244943° N; Longitude: 110.949758° W
- View Point Elevation at Eye Level: 2,431 ft.
- Looking: north
- Poles Visible: Alternative A structures
- Image File Name: IMG_3634.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:30 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 268 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #32



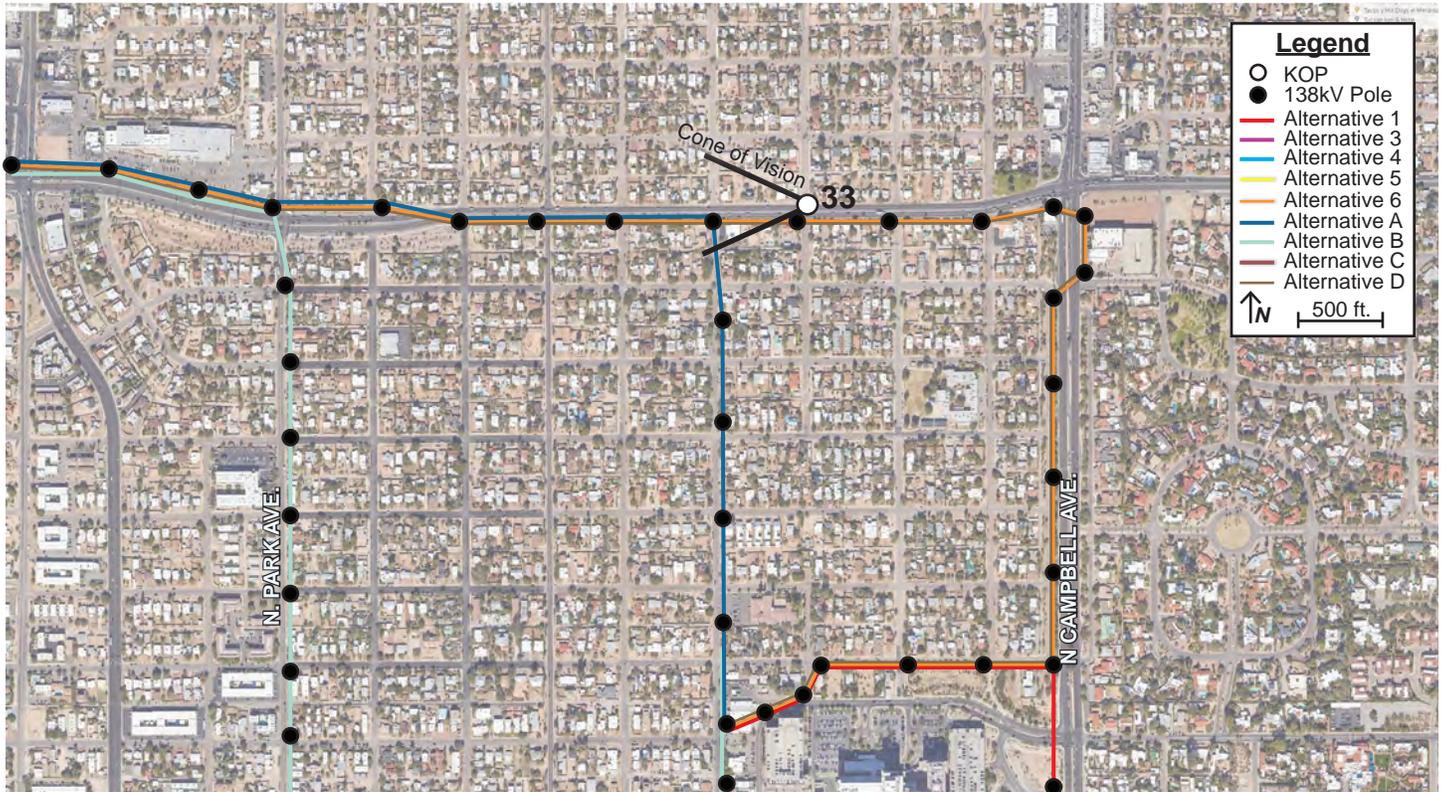
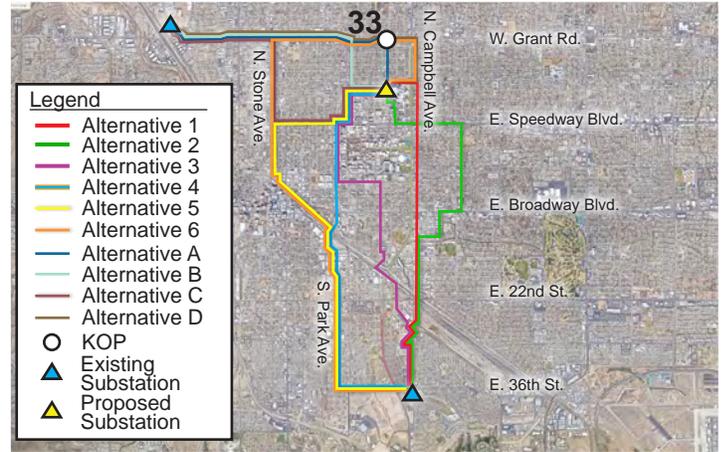
Current Condition



Simulated Condition

Key Observation Point (KOP) # 33

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents and commercial travelers
- Location: 1601 Grant Ave
- Latitude: 32.250078° N; Longitude: 110.948432° W
- View Point Elevation at Eye Level: 2,420 ft.
- Looking: west
- Poles Visible: Alternative 1,A,B,or D structures
- Image File Name: IMG_3638.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:33 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 519 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #33



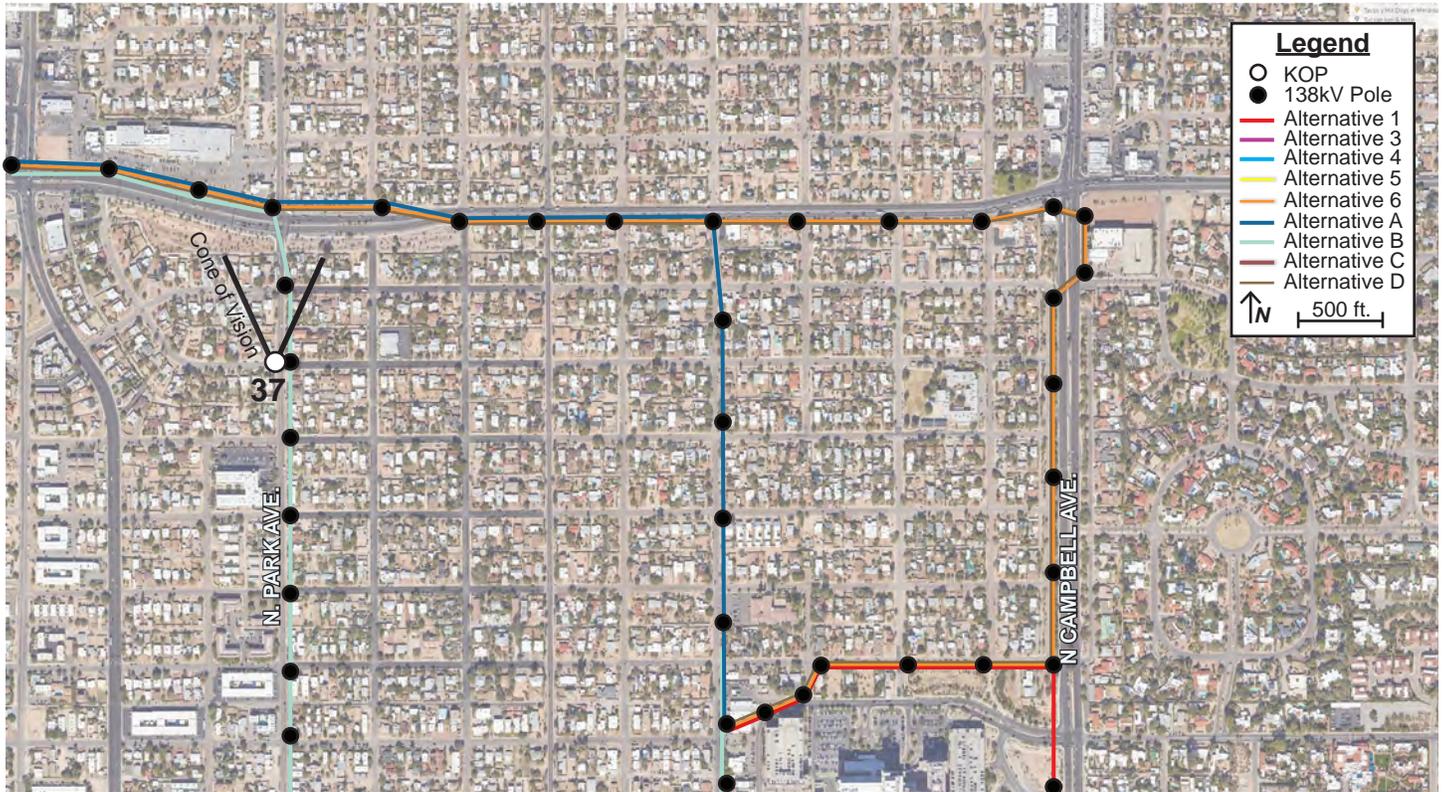
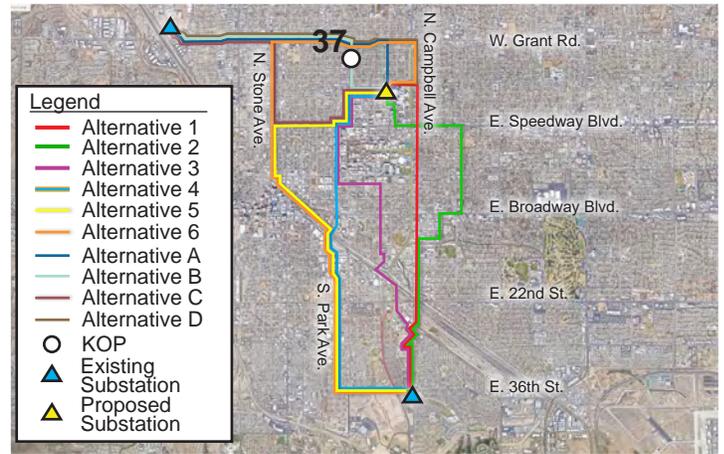
Current Condition



Simulated Condition

Key Observation Point (KOP) # 37

[return to map](#)



Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents and commercial travelers
- Location: 2200 N Park Ave.
- Latitude: 32.247848° N; Longitude: 110.957059° W
- View Point Elevation at Eye Level: 2,430 ft.
- Looking: north
- Poles Visible: Alternative 1,A,B,or D structures
- Image File Name: IMG_3714.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 10:52 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 329 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #37



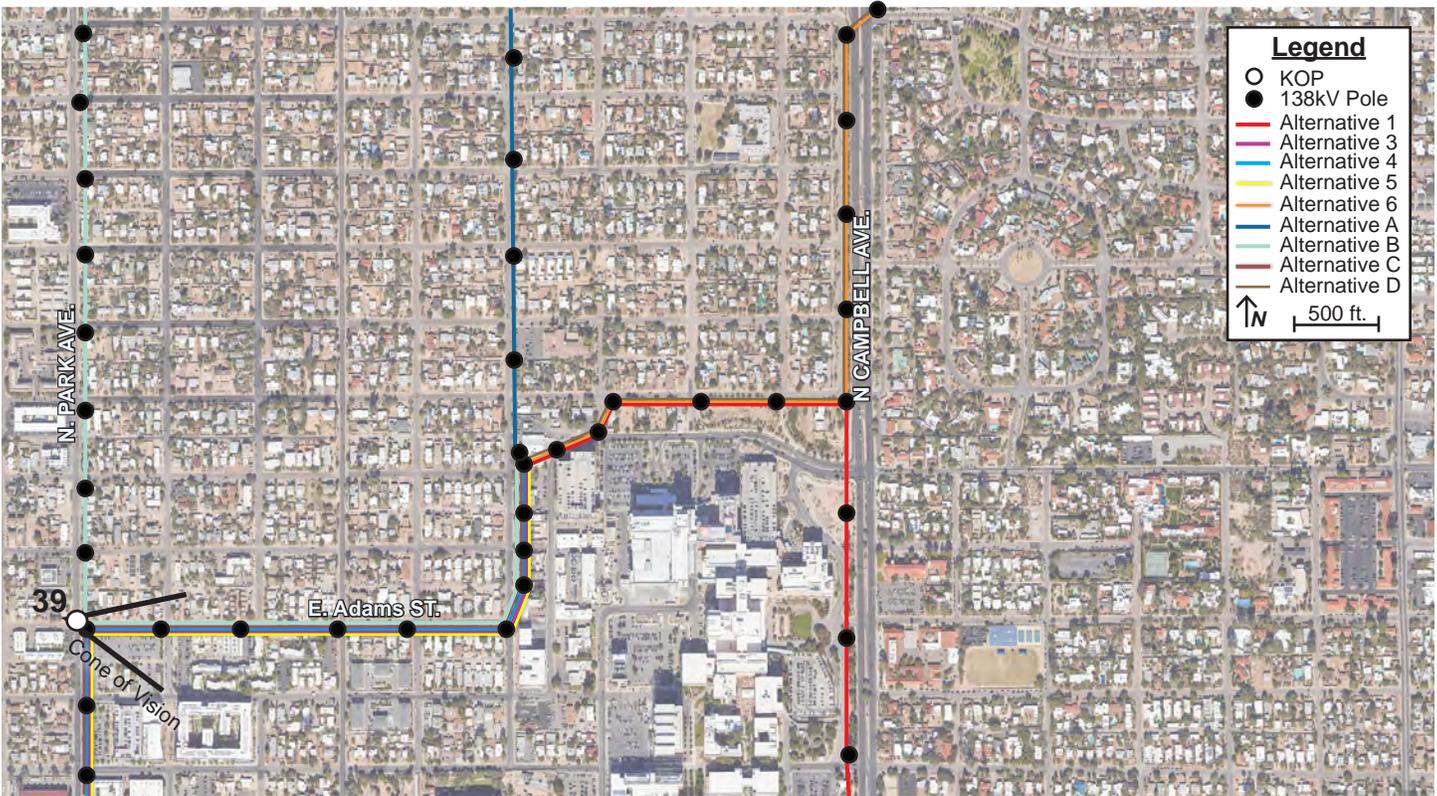
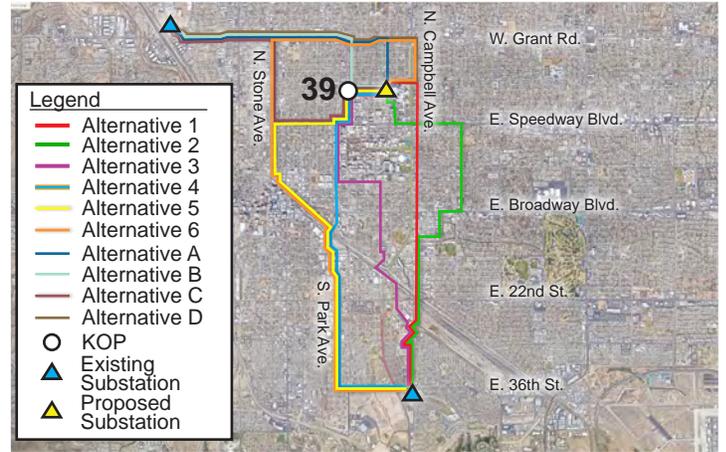
Current Condition



Simulated Condition

Key Observation Point (KOP) # 39

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 1000 E. Adams St.
- Latitude: 32.240337° N; Longitude: 110.956882° W
- View Point Elevation at Eye Level: 2,424 ft.
- Looking: east
- Poles Visible: Alternative 3,4,5, B, or C structures
- Image File Name: IMG_3751.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 11:03 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 45 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #39



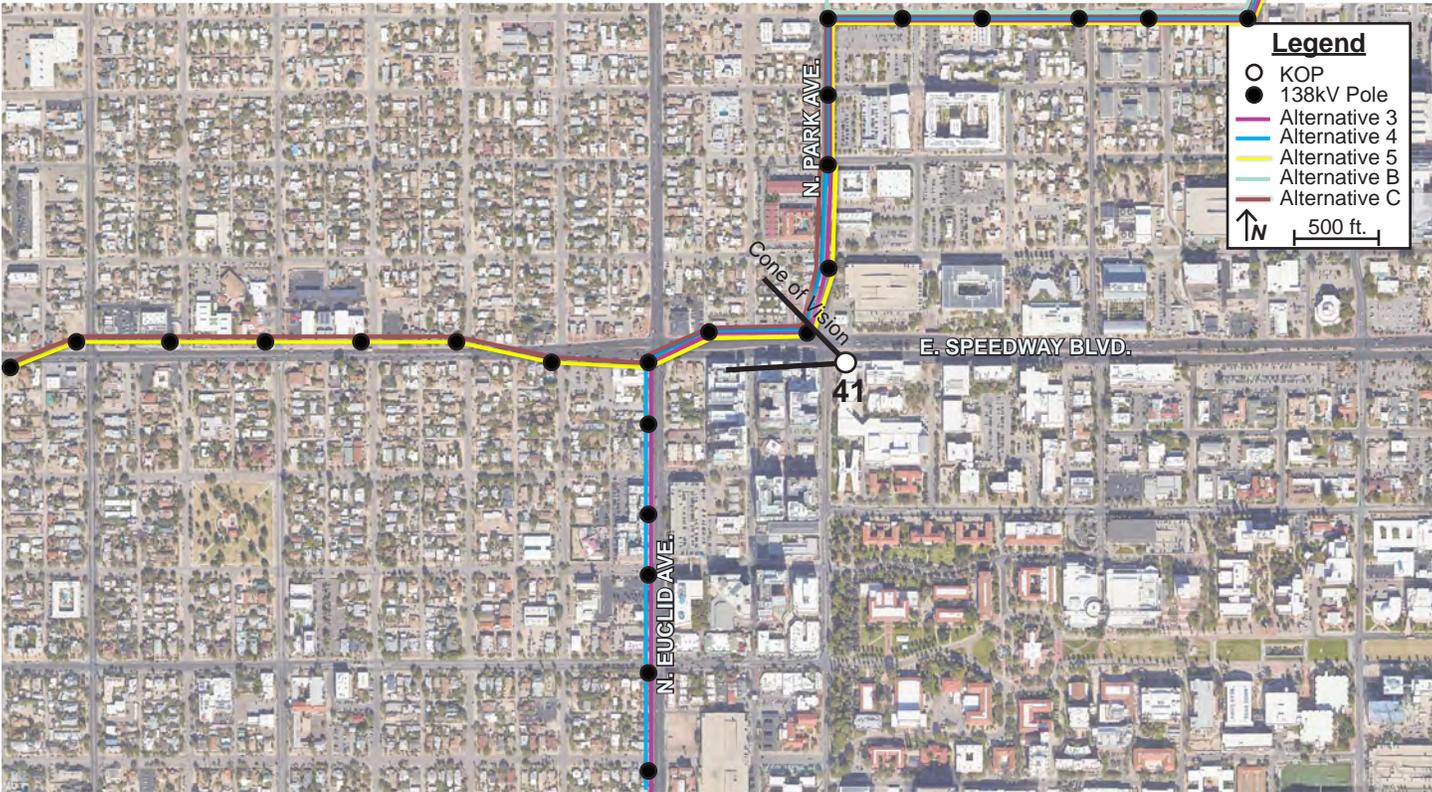
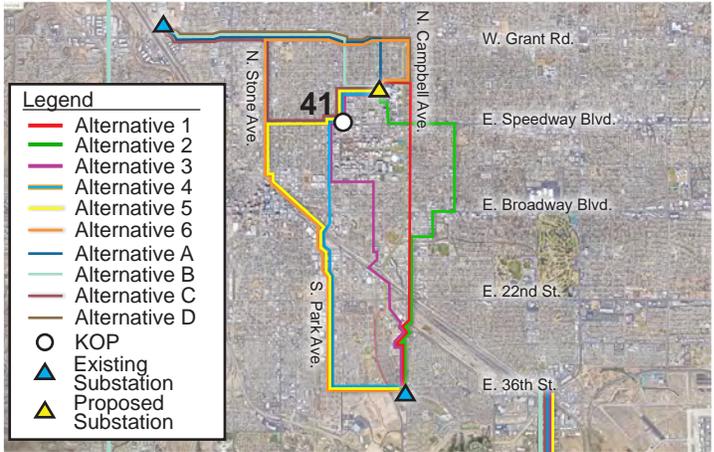
Current Condition



Simulated Condition

Key Observation Point (KOP) # 41

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 50mm | F-Stop: f/5 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, students, and commercial
- Location: 1002 E Speedway Blvd.
- Latitude: 32.236257° N; Longitude: 110.956311° W
- View Point Elevation at Eye Level: 2,436 ft.
- Looking: west
- Poles Visible: Alternative 3,4,5, or C structures
- Image File Name: IMG_2793.JPG

Simulation Notes

- Photo Taken: December 5th, 2023 at 10:11 am
- The image is based on a single photo and represent approximately 39.5 degree horizontal field of view.
- This view is approximately 665 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #41



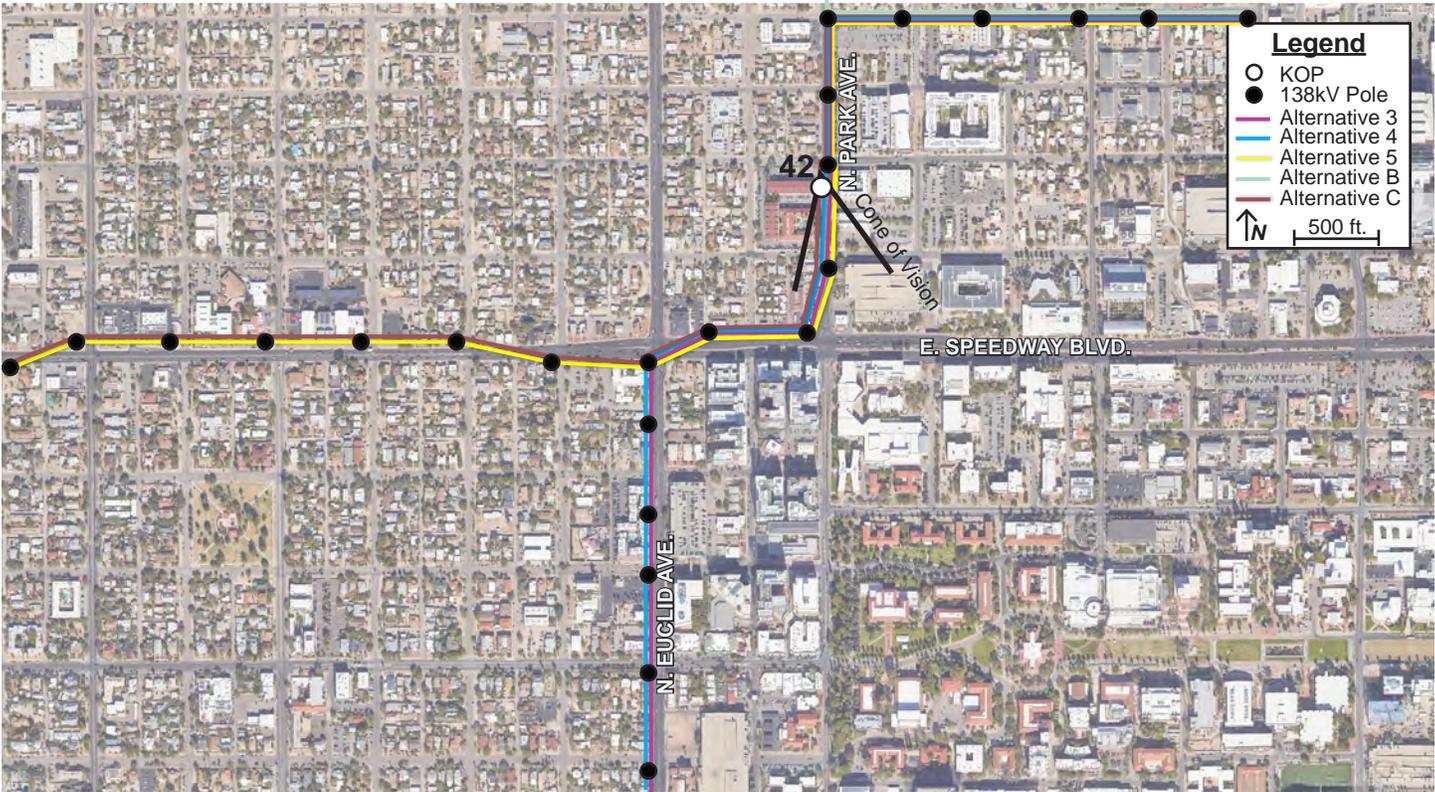
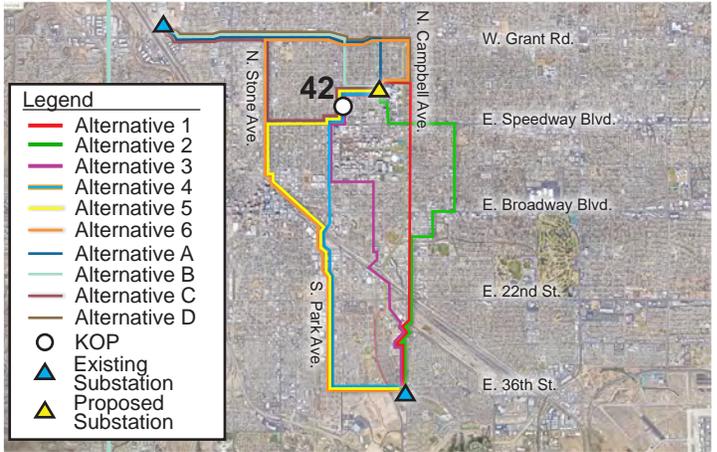
Current Condition



Simulated Condition

Key Observation Point (KOP) # 42

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, students, and commercial
- Location: 1201 N Park
- Latitude: 32.238180° N; Longitude: 110.956844° W
- View Point Elevation at Eye Level: 2,429 ft.
- Looking: south
- Poles Visible: Alternative 3,4,5, or C structures
- Image File Name: IMG_3790.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 11:18 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 348 feet north of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #42



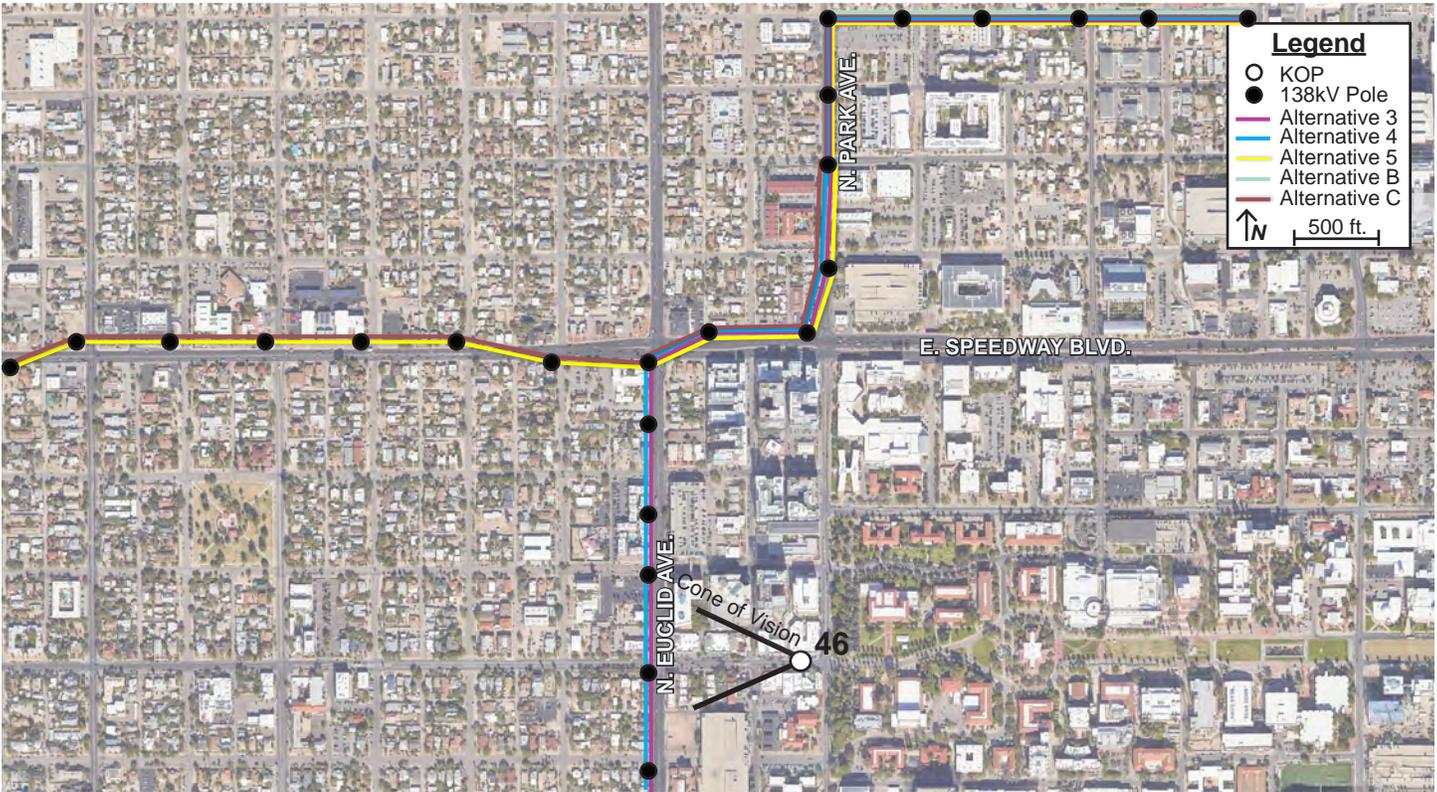
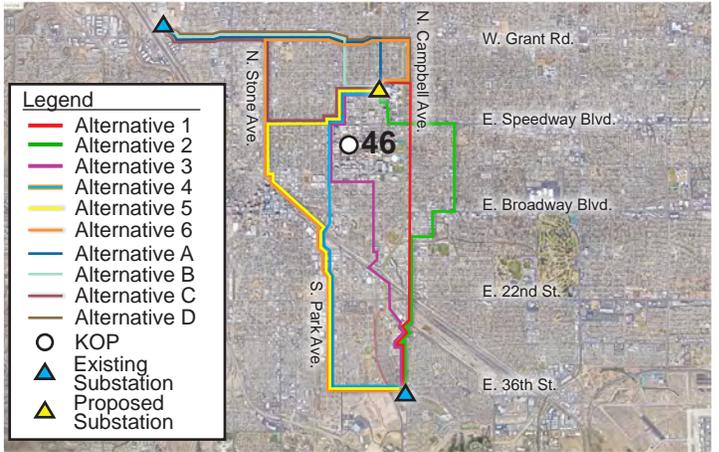
Current Condition



Simulated Condition

Key Observation Point (KOP) # 46

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, students, and commercial
- Location: 982 E University
- Latitude: 32.231705° N; Longitude: 110.958282° W
- View Point Elevation at Eye Level: 2,423 ft.
- Looking: west
- Poles Visible: Alternative 3 or 4 structures
- Image File Name: IMG_3833.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 11:49 am
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 406 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #46



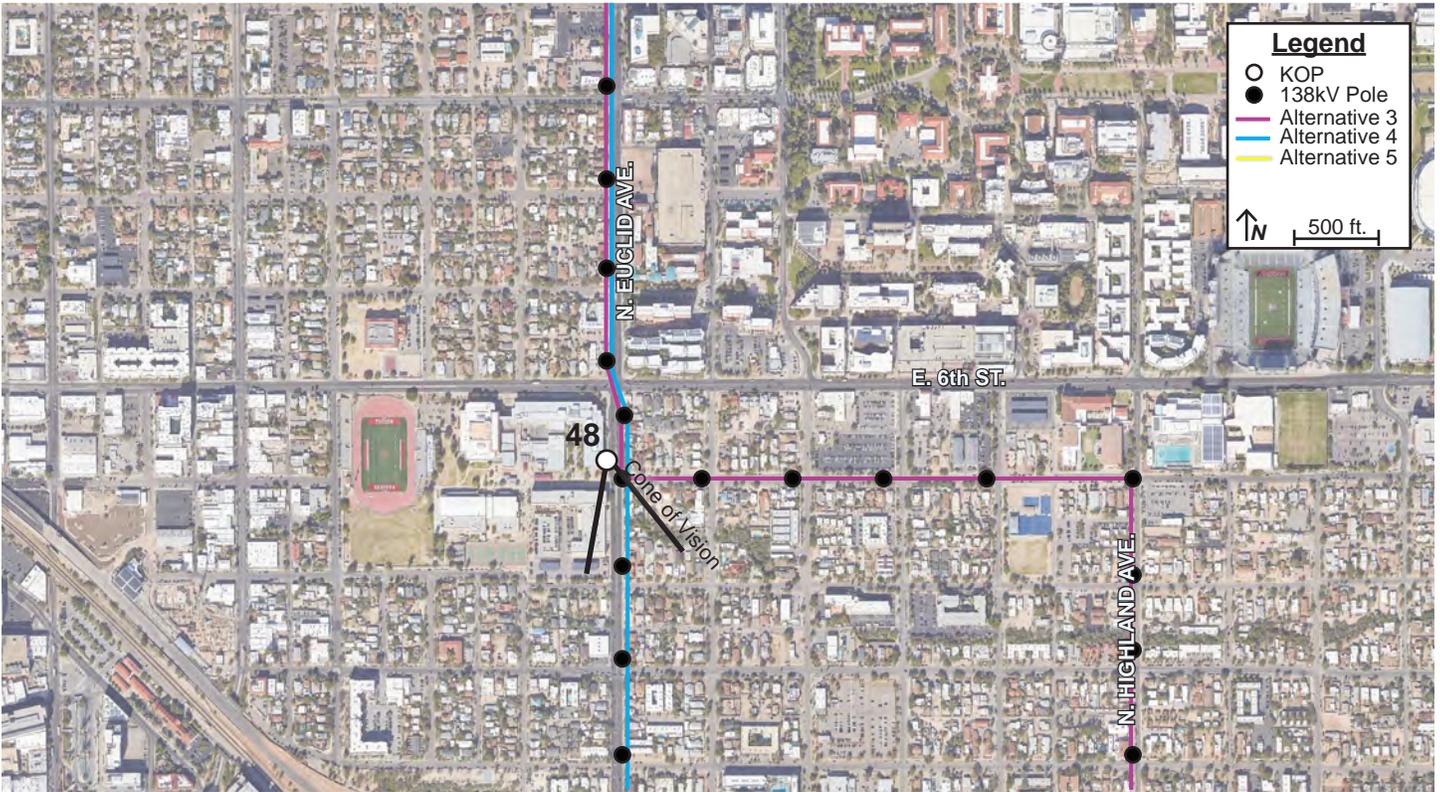
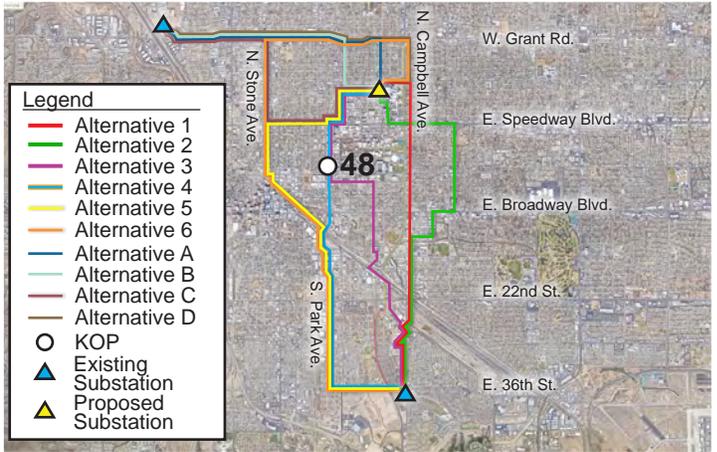
Current Condition



Simulated Condition

Key Observation Point (KOP) # 48

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/10 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, students, and commercial
- Location: 428 N Euclid
- Latitude: 32.227078° N; Longitude: 110.959520° W
- View Point Elevation at Eye Level: 2,404 ft.
- Looking: south
- Poles Visible: Alternative 3 or 4 structures
- Image File Name: IMG_3851.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 11:59 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 205 feet north of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #48



Current Condition



Simulated Condition

Alternative Route 3 - Sage Green Finish

Key Observation Point (KOP) #48



Current Condition

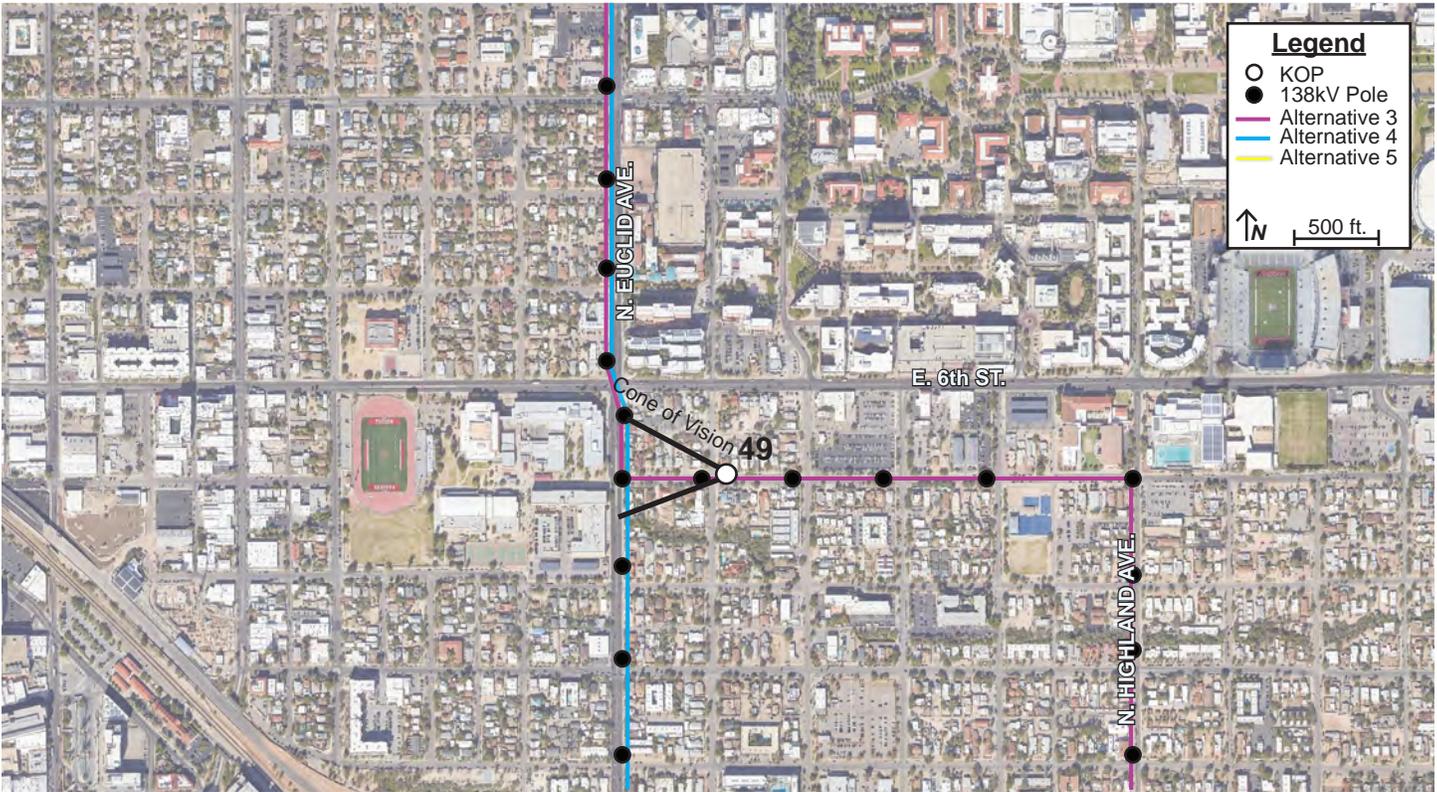
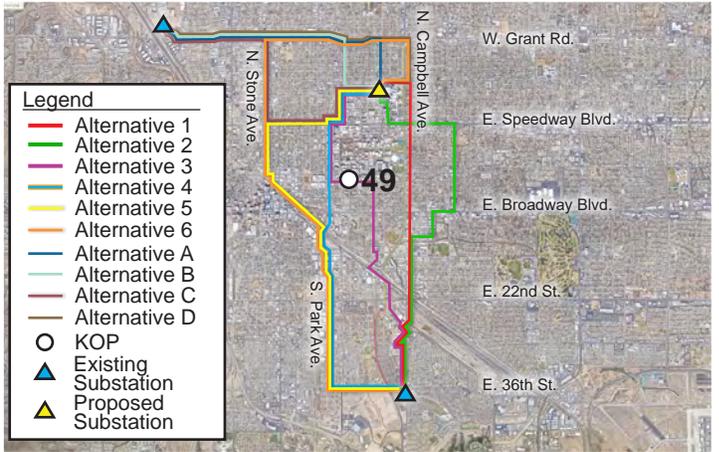


Simulated Condition

Alternative Route 4 - Weathered Finish

Key Observation Point (KOP) # 49

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents
- Location: 850 E 7th St.
- Latitude: 32.226415° N; Longitude: 110.957721° W
- View Point Elevation at Eye Level: 2,407 ft.
- Looking: west
- Poles Visible: Alternative 3 or 4 structures
- Image File Name: IMG_3873.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 12:04 pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 112 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #49



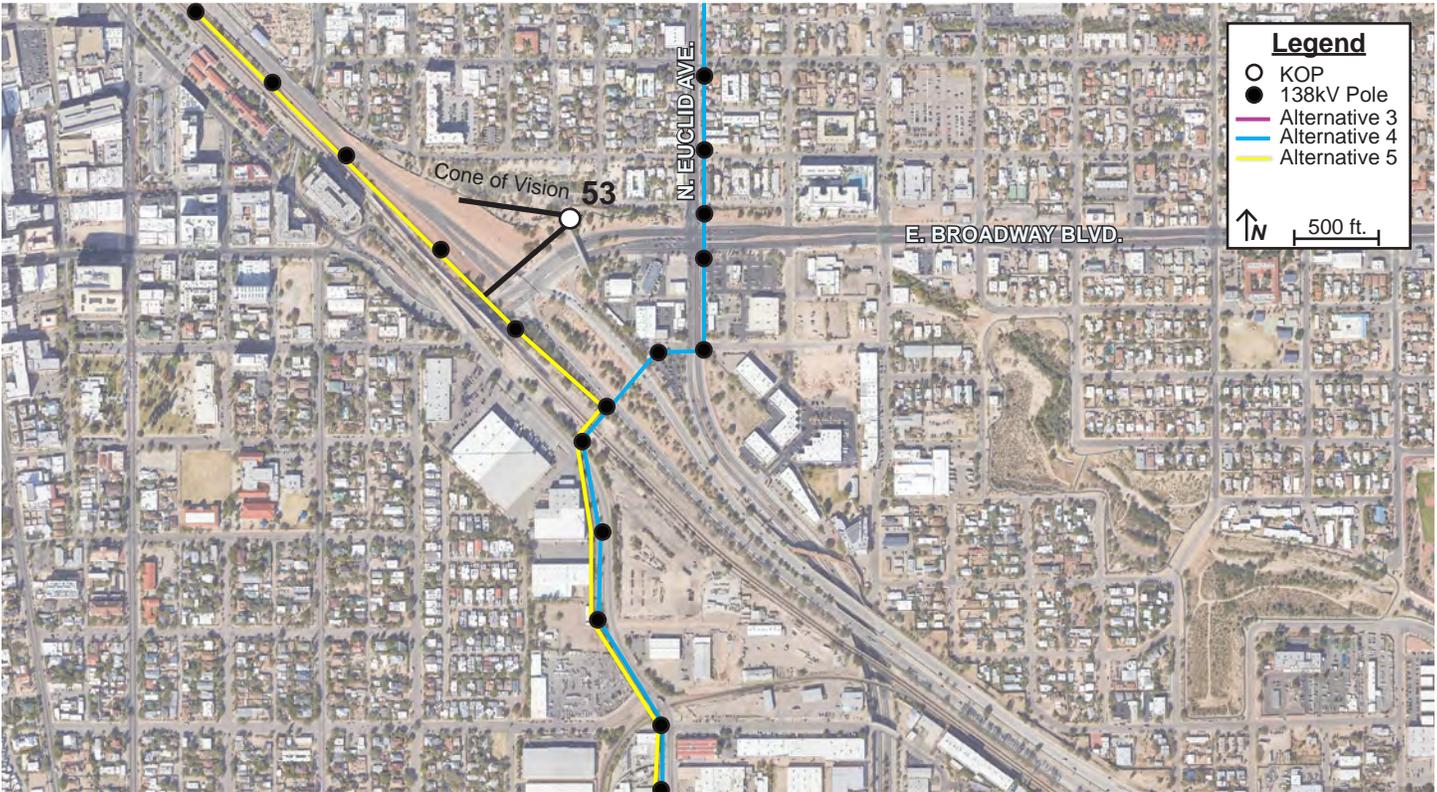
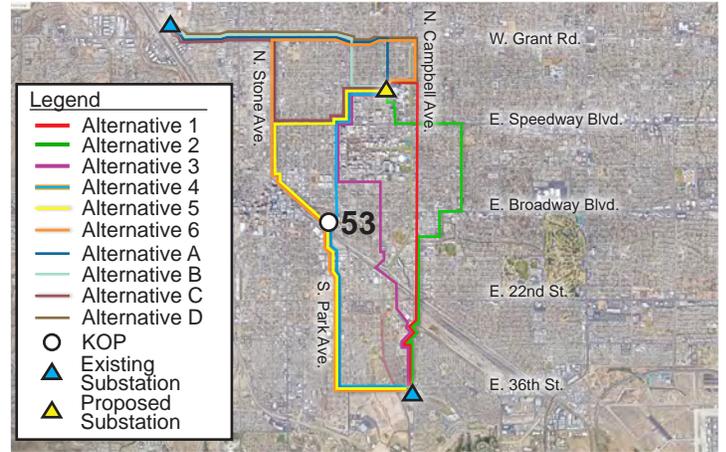
Current Condition



Simulated Condition

Key Observation Point (KOP) # 53

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/5.6 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Bike path/recreational users
- Location: Snake Bridge Plaza
- Latitude: 32.221640° N; Longitude: 110.961541° W
- View Point Elevation at Eye Level: 2,410 ft.
- Looking: west
- Poles Visible: Alternative 5 structures
- Image File Name: IMG_3905.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 12:26 pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 630 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

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Key Observation Point (KOP) #53



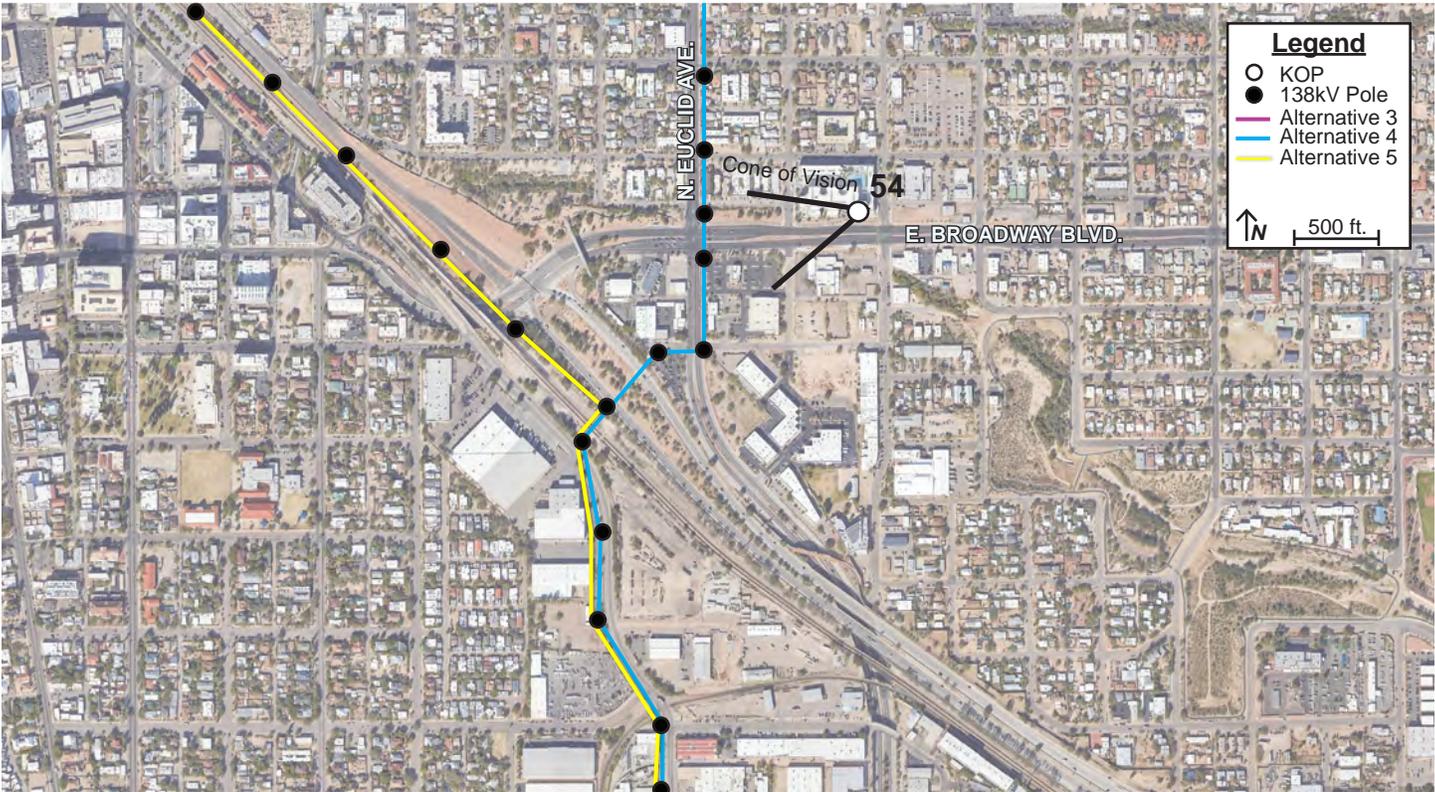
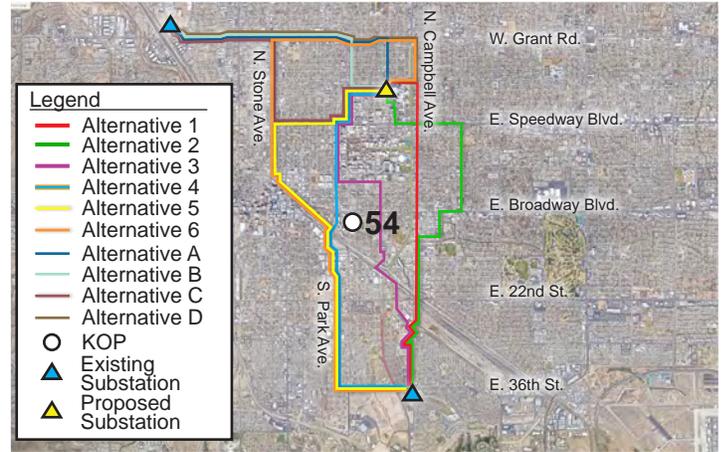
Current Condition



Simulated Condition

Key Observation Point (KOP) # 54

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 50mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, commercial
- Location: 929 E Broadway Blvd
- Latitude: 32.221627° N; Longitude: 110.956885° W
- View Point Elevation at Eye Level: 2,414 ft.
- Looking: west
- Poles Visible: Alternative 4 or 5 structures
- Image File Name: IMG_3922.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 12:59 pm
- The image is based on a single photo and represent approximately 39.5 degree horizontal field of view.
- This view is approximately 752 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #54



Current Condition



Simulated Condition

Alternative Route 4 - Weathered Finish

Key Observation Point (KOP) #54



Current Condition



Simulated Condition

Alternative Route 4 - Galvanized Finish

Key Observation Point (KOP) #54



Current Condition

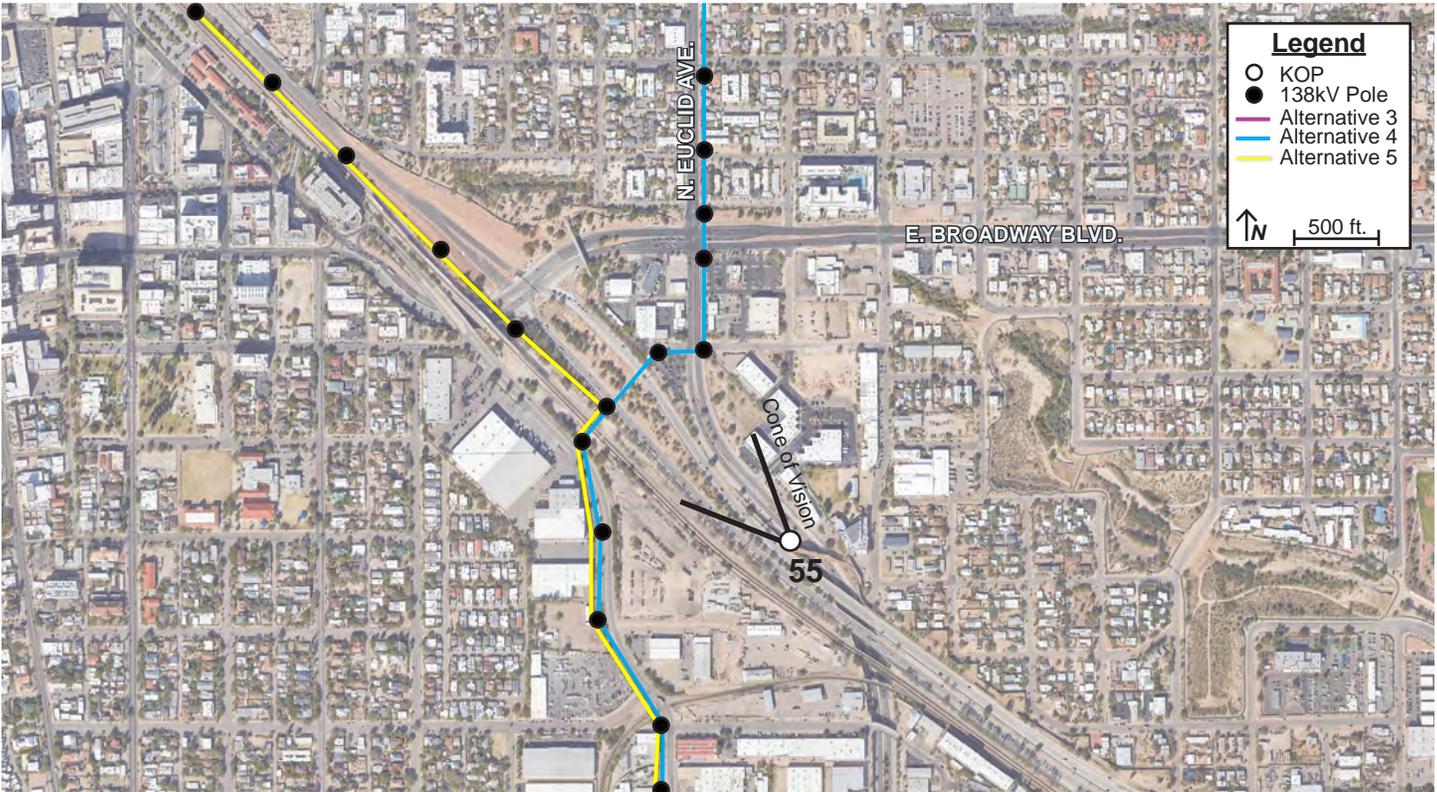
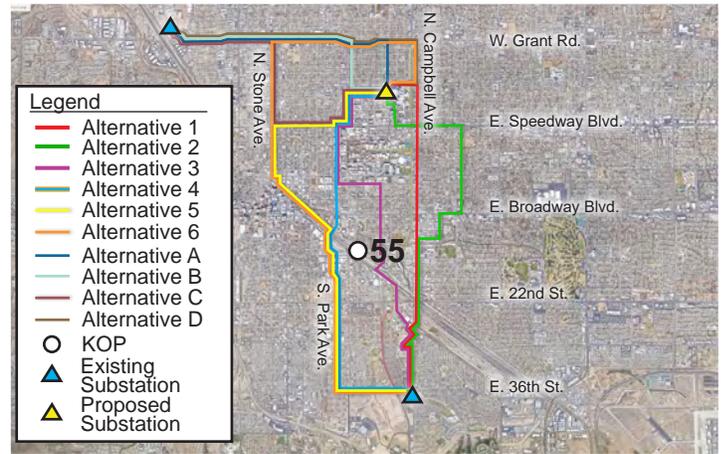


Simulated Condition

Alternative Route 5 - Weathered Finish

Key Observation Point (KOP) # 55

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/10 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: recreational users
- Location: Bike Path Bridge
- Latitude: 32.217159° N; Longitude: 110.957797° W
- View Point Elevation at Eye Level: 2,412 ft.
- Looking: northwest
- Poles Visible: Alternative 4 or 5 structures
- Image File Name: IMG_3937.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 1:07pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 1161 feet southeast of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #55



Current Condition



Simulated Condition

Weathered Finish

[return to map](#)

Key Observation Point (KOP) #55



Current Condition

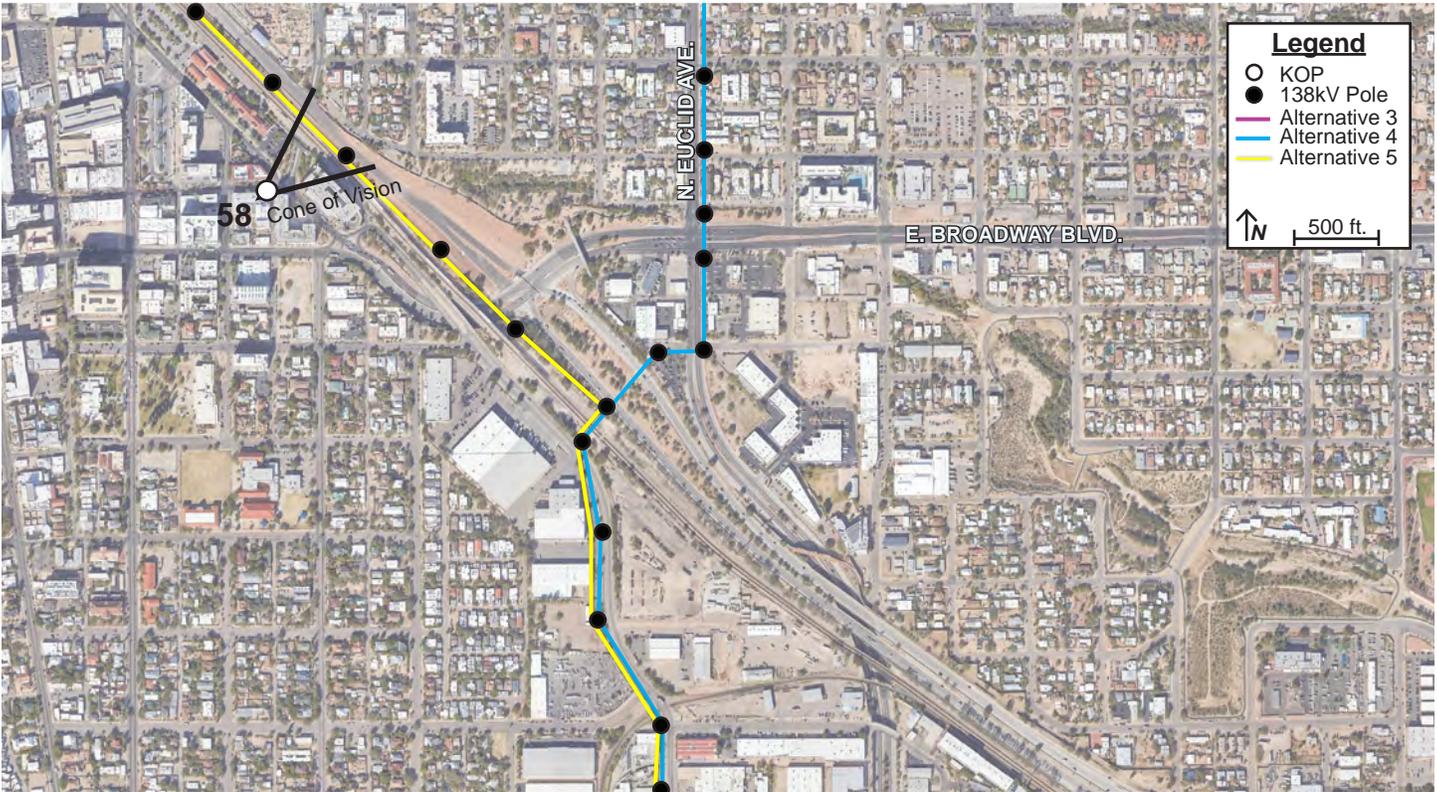
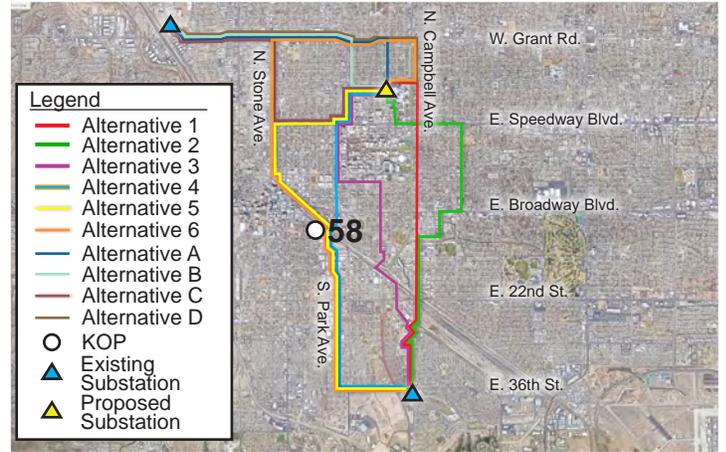


Simulated Condition

Sage Green Finish

Key Observation Point (KOP) # 58

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/5.6 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: downtown
- Location: 318 Congress St.
- Latitude: 32.222190° N; Longitude: 110.966426° W
- View Point Elevation at Eye Level: 2,397ft.
- Looking: northeast
- Poles Visible: Alternative 4 or 5 structures
- Image File Name: IMG_3972.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 1:18pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 498 feet southwest of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #58



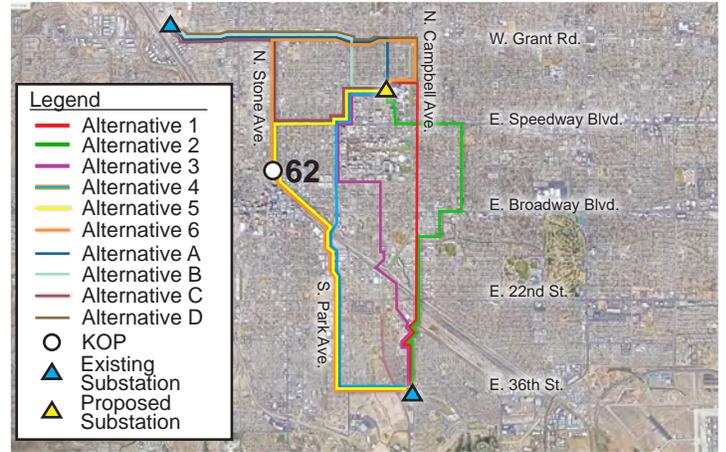
Current Condition



Simulated Condition

Key Observation Point (KOP) # 62

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/10 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: commercial traffic
- Location: 642 N Stone Ave
- Latitude: 32.229329° N; Longitude: 110.971876° W
- View Point Elevation at Eye Level: 2,383ft.
- Looking: north
- Poles Visible: Alternative 5 or 6 structures
- Image File Name: IMG_4033.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 1:39pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 308 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #62



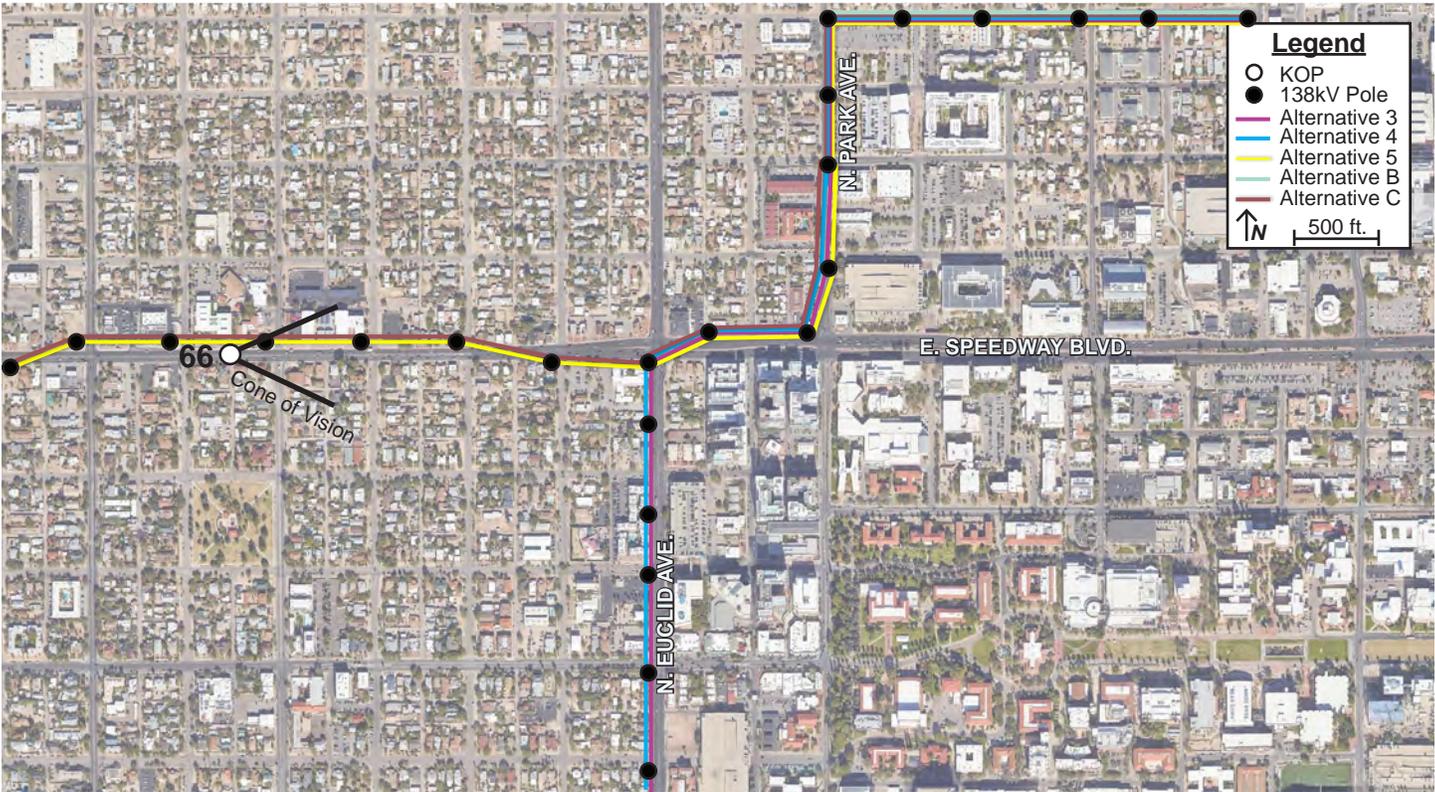
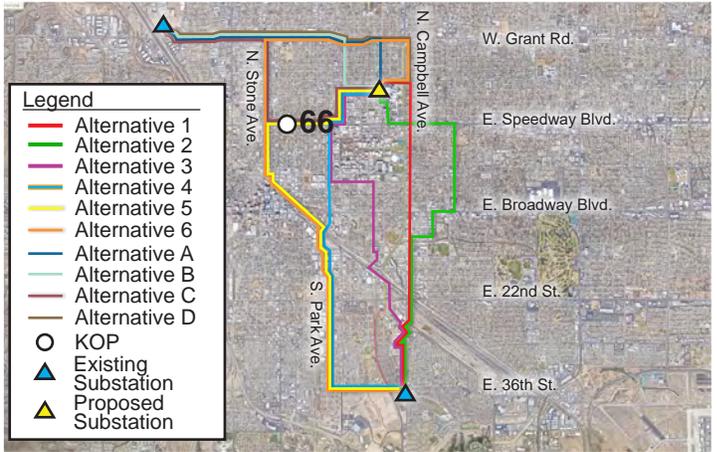
Current Condition



Simulated Condition

Key Observation Point (KOP) # 66

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/5.6 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents, and commercial
- Location: 203 E Speedway
- Latitude: 32.235851° N; Longitude: 110.966304° W
- View Point Elevation at Eye Level: 2,403 ft.
- Looking: east
- Poles Visible: Alternative 5 or C structures
- Image File Name: IMG_4076.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 1:57pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 180 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #66



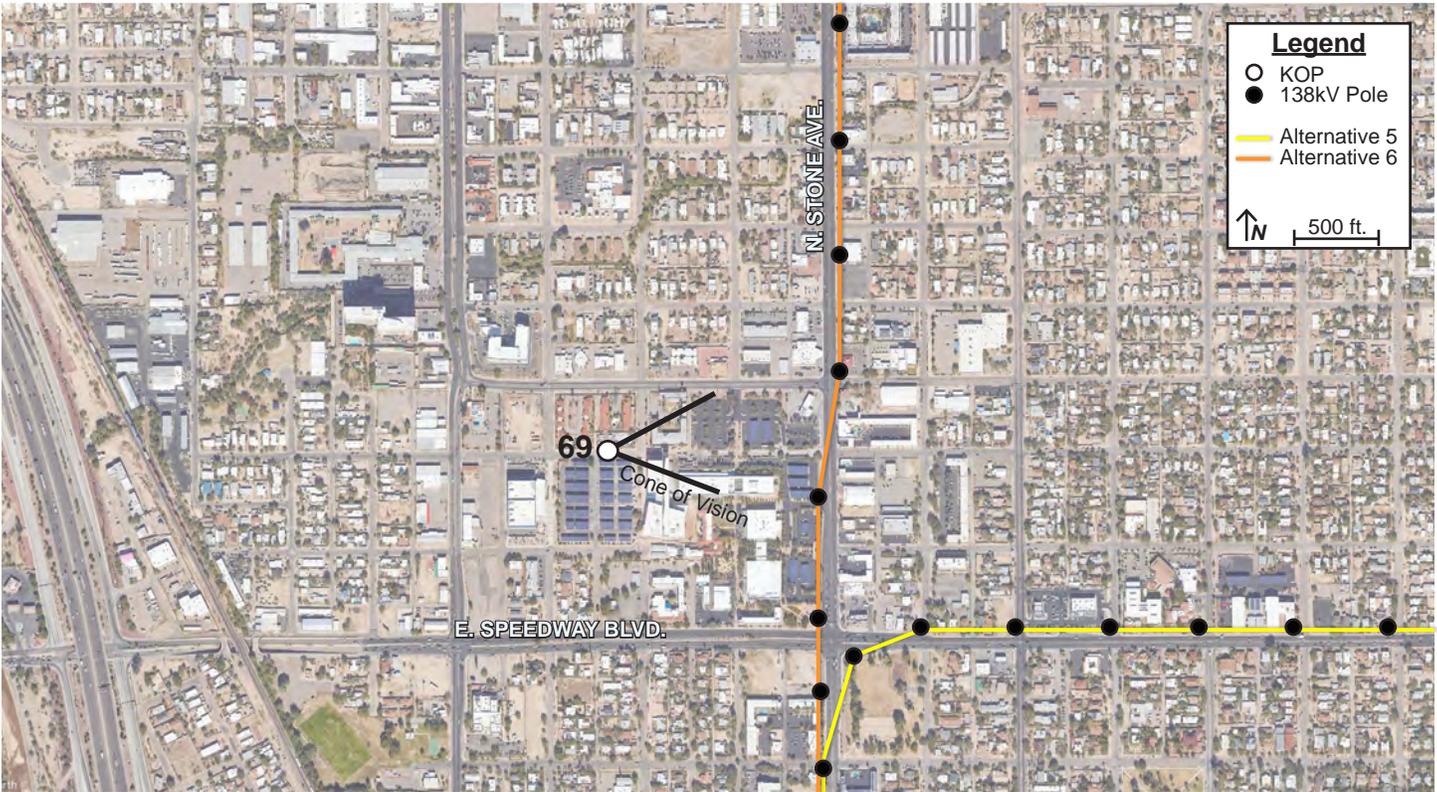
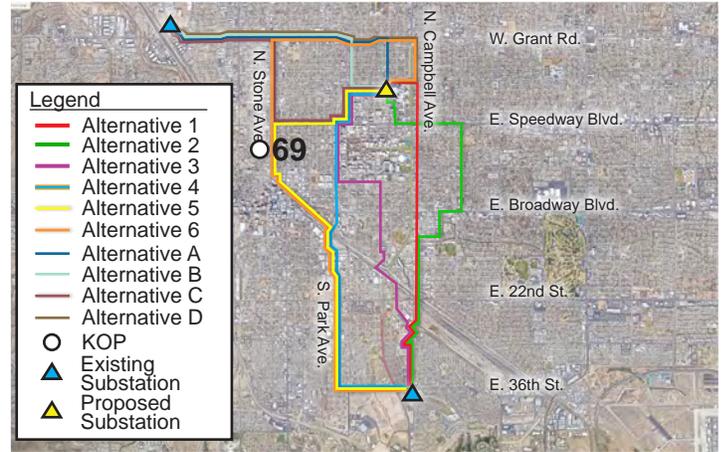
Current Condition



Simulated Condition

Key Observation Point (KOP) # 69

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: students and staff at Pima CC
- Location: 240 W Mabel
- Latitude: 32.238474° N; Longitude: 110.975384° W
- View Point Elevation at Eye Level: 2,370ft.
- Looking: east
- Poles Visible: Alternative 6 structures
- Image File Name: IMG_4095.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 2:07pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 1,235 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #69



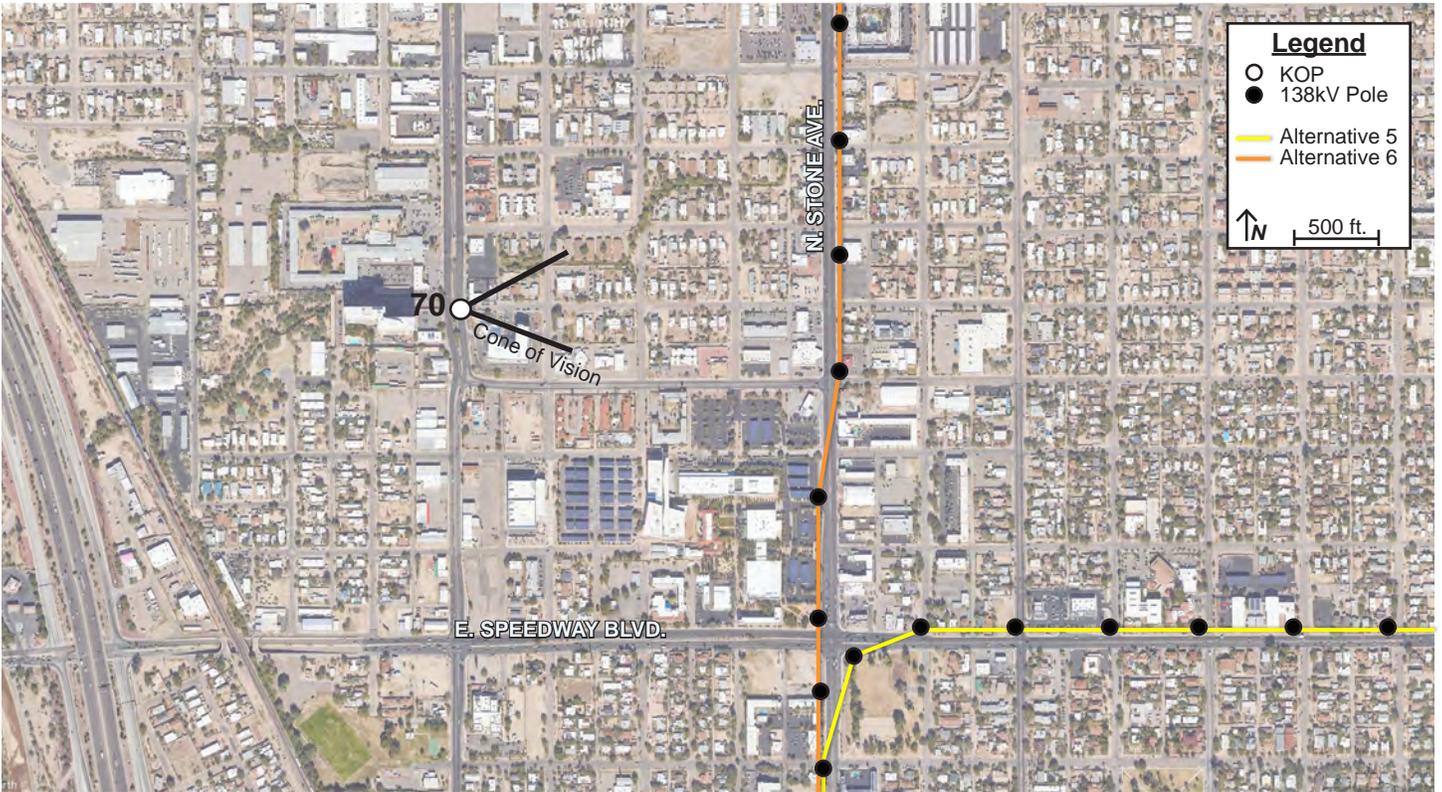
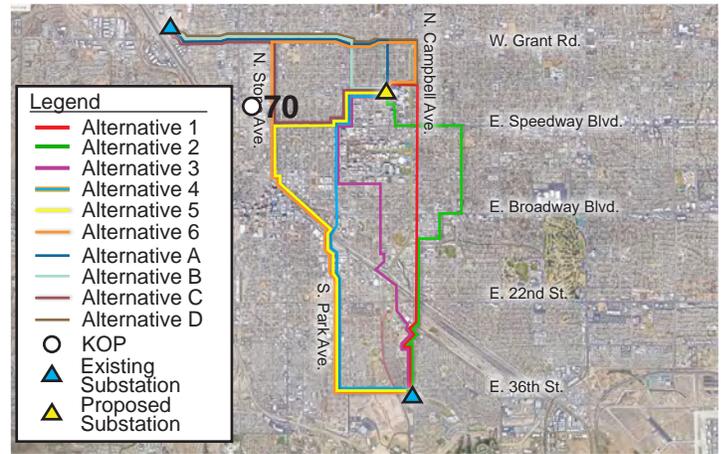
Current Condition



Simulated Condition

Key Observation Point (KOP) # 70

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 35mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: residents and visitors
- Location: 1548 N Oracle
- Latitude: 32.240545° N; Longitude: 110.978353° W
- View Point Elevation at Eye Level: 2,363ft.
- Looking: east
- Poles Visible: Alternative 6 structures
- Image File Name: IMG_4102.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 2:12pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 2,075 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Key Observation Point (KOP) #70



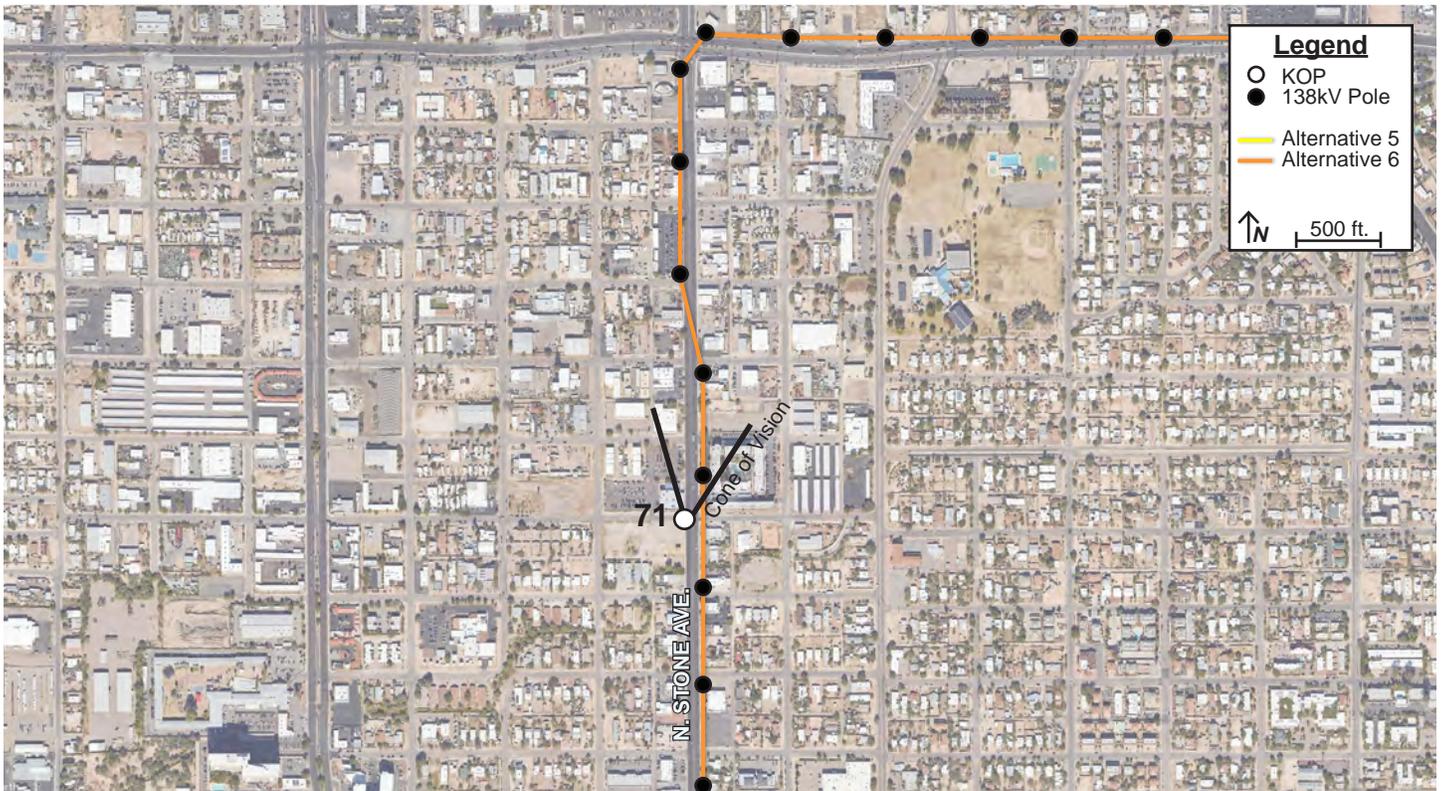
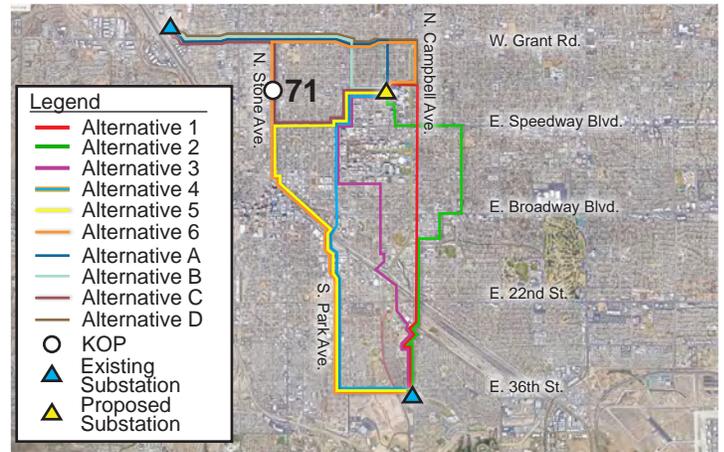
Current Condition



Simulated Condition

Key Observation Point (KOP) # 71

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Notes:

Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm
- Lens: Canon RF 24-105mm f/4-7.1 IS STM
- Focal Length: 24mm | F-Stop: f/9 | ISO:100
- Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: commercial traffic
- Location: 1750 N. Stone Ave.
- Latitude: 32.243617° N; Longitude: 110.971994° W
- View Point Elevation at Eye Level: 2,375ft.
- Looking: north
- Poles Visible: Alternative 6 structures
- Image File Name: IMG_4104.JPG

Simulation Notes

- Photo Taken: March 4th, 2024 at 2:17pm
- The image is based on a single photo and represent approximately 73.7 degree horizontal field of view.
- This view is approximately 255 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

[return to map](#)

Key Observation Point (KOP) #71



Current Condition



Simulated Condition

Weathered Finish

[return to map](#)

Key Observation Point (KOP) #71



Current Condition



Simulated Condition

Galvanized Finish

[return to map](#)

Key Observation Point (KOP) #71



Current Condition



Simulated Condition

Sage Green Finish