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IMPORTANT TRANSMISSION LINE INFORMATION

PERRYVILLE SUBSTATION TO VALENCIA SUBSTATION

Typical 69kV double-circuit pole (left) and typical 69kV double-circuit pole with 12kV underbuild (right)

Please visit our project website at **aps.com/siting**

PERRYVILLE SUBSTATION TO VALENCIA SUBSTATION

69kV Power Line Siting Project

OCTOBER 2017

This is the third and final newsletter intended to inform you about Arizona Public Service Company's (APS's) efforts to determine the routes for two new 69 kilovolt (kV) electric power lines to serve a new distribution substation in central Buckeye.

APS continually monitors its electrical system and, when necessary, adds or upgrades facilities. These improvements enhance reliability and help ensure that an adequate supply of quality electric power is available to customers.

ADDITION OF NEW FACILITIES

The electric system serving the central Buckeye area is made up of multiple substations and power lines. The loss of any one of the 69kV lines or substations may result in power outages in the area until repairs can be made. Outages are often a result of powerful storms in the area or even vehicle accidents. Adding new facilities will improve reliability and help ensure APS has adequate power available to meet the electrical needs in the area.

To maintain reliable electric service and accommodate future customer growth, APS plans to add a new substation near Southern Avenue and 239th Avenue. This new substation will require new 69kV power lines to connect into the existing electrical system currently serving the area. These new power lines will connect the new substation with both the Perryville Substation, located at Jackrabbit Trail and Lower Buckeye Road, and the Valencia Substation, located at Miller Road and Maricopa Road (see map). The resulting project will create a continuous 69kV line between the Perryville and Valencia substations, with an interconnection at the new substation.

The new segments of the 69kV power line will be built on steel poles and will be a single 69kV circuit configuration (three wires per circuit) for the Perryville segment and a double 69kV circuit configuration (six total wires on the same pole) for the Valencia segment (see photos). The new 69kV power lines may be constructed in a new alignment or in areas where lines already exist. In most cases, any existing distribution (12kV) facilities would be rebuilt on the new poles to consolidate structures. It is anticipated that the new poles would be approximately 65 feet in height. The line segments would require a right-of-way or easement approximately 30 to 40 feet in width to construct, operate, and maintain the facility. APS plans to have the new Valencia 69kV power line in service by fall of 2018. The Perryville 69kV power line is expected to be needed in 2019–2020; however, this may be advanced or delayed based on growth and the timing of new development in the area.

SITING PROCESS

In early 2017, APS hired Environmental Planning Group (EPG) to assist in evaluating route alternatives, to assess potential environmental impacts, and to support the public outreach process. Baseline information about land use, visual, biological, cultural, and recreational resources for the area has been collected. This information, along with engineering and construction studies performed by APS, was used to develop preliminary route segment alternatives within the study area.

When developing route segment alternatives, APS evaluates many criteria, including: environmental impacts, engineering and construction feasibility, land acquisition timing and costs, regulatory approvals, potential impacts to existing and planned developments, and input from agencies and the public.

Initial briefings were held with representatives and officials from the City of Buckeye to inform them of the proposed project, and to solicit input. The public was notified of the project through newsletter mailings. Comment forms were available for public input throughout the process. The public was invited to comment by mail, phone, email or through the project website. We have received numerous comments regarding the project, most of which were very positive and hopeful that the new facilities would improve the power quality and service reliability in the area.

For more information, please visit the project website at **aps.com/siting**

Using the siting criteria mentioned above and the comments that were received, potential power line routes were developed and evaluated. All comments, input and data gathered to date has been logged and the results were used to identify the Selected Routes (see map). City officials have been briefed on the status of the project and informed about the Selected Routes.

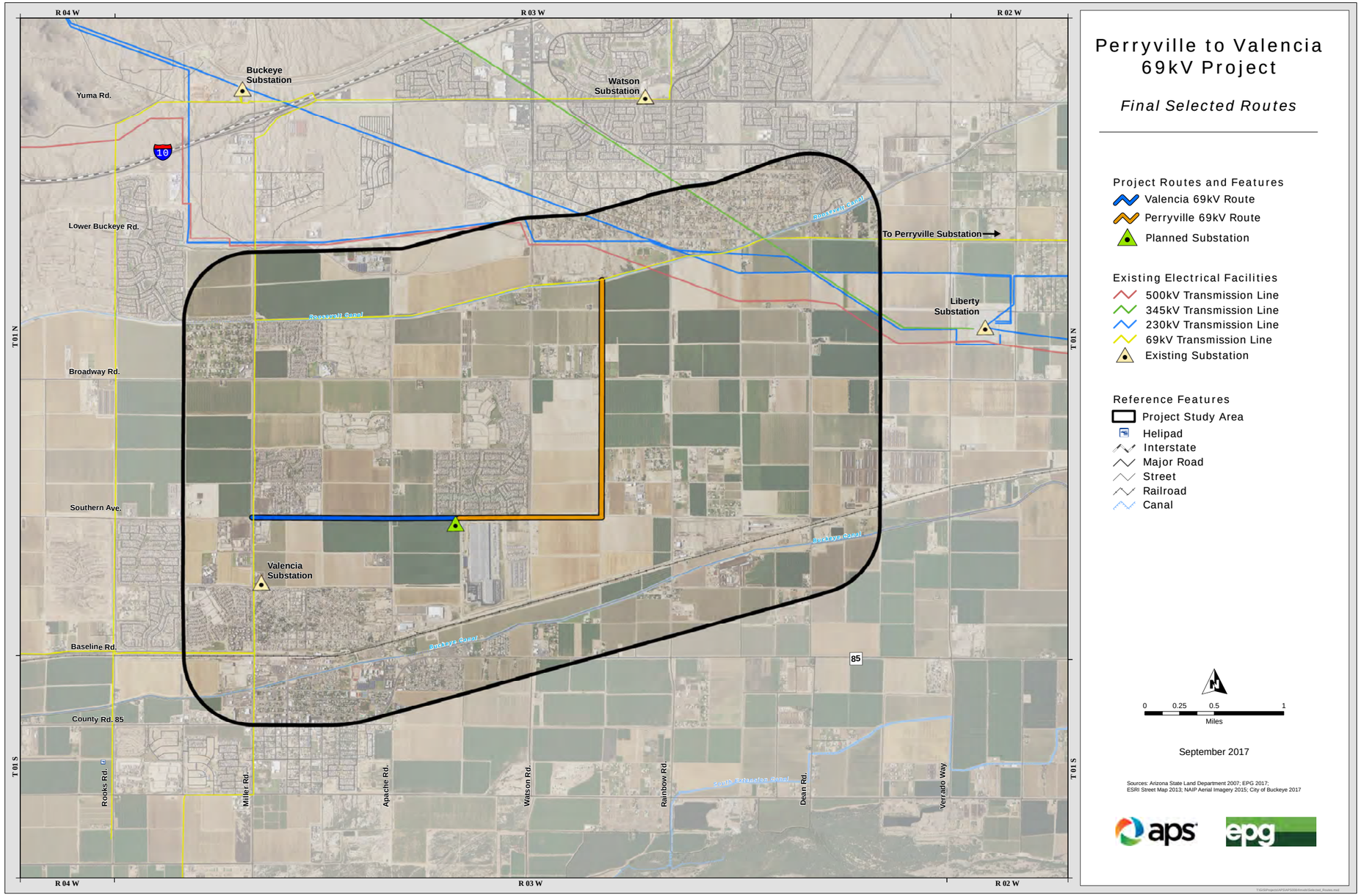
Final Line Route Selection for the Valencia Segment
APS identified the final location for the new power line for the Valencia segment (see map). The selected route for the Valencia segment will begin at the new substation at approximately 239th Avenue and Southern Avenue. The new line will proceed west along the south side of Southern Avenue toward Miller Road. As the new line approaches Miller Road, the line may cross to the north side of Southern Avenue where the existing overhead 12kV will be constructed on the new poles underneath the 69kV lines. The line will then connect into the existing 69kV power line running along Miller Road.

Final Line Route Selection for the Perryville Segment
APS identified the final location for the new power line for the Perryville segment (see map). The selected route for the Perryville segment will begin at the new substation at approximately 239th Avenue and Southern Avenue. The new line will proceed east along the south side of Southern Avenue to 231st Avenue. At 231st Avenue the line will proceed north to the Roosevelt Canal where it will connect with an existing 69kV line that goes directly to the Perryville substation.

The Selected Routes were based on a balance of factors, including: public acceptability, reduced environmental impacts, reduced engineering challenges, cost effectiveness, and land acquisition challenges comparable to other alternatives.

NEXT STEPS

With the final routes selected, APS will begin to acquire land rights, complete design, and obtain permits for construction. It is expected that construction on the substation and Valencia line will begin in early 2018 and is planned to be complete and energized in the fall of 2018. Construction of the Perryville line segment may begin in late 2018 or 2019; however, these dates could be advanced or delayed depending on the growth and the development in the area. Written notice will be provided to customers and land owners in the area prior to any construction activities taking place.



APS would like to thank you for your interest and participation in the project. Project updates can be found on the project website, which will continue to be maintained through construction. The project website can be found by navigating to **aps.com/siting**, then clicking on “find out more” under current projects. Questions can be submitted directly to an APS Siting Consultant at **perryvillevalencia@apsc.com**.

For more information about all APS transmission and facility siting projects, visit our website at: **aps.com/siting**.

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