

1 **BEFORE THE ARIZONA POWER PLANT**
2 **AND TRANSMISSION LINE SITING COMMITTEE**

3 IN THE MATTER OF THE APPLICATION OF
4 SALT RIVER PROJECT AGRICULTURAL
5 IMPROVEMENT AND POWER DISTRICT, IN
6 CONFORMANCE WITH THE
7 REQUIREMENTS OF ARIZONA REVISED
8 STATUTES, SECTIONS 40-360, *et. seq.*, FOR A
9 CERTIFICATE OF ENVIRONMENTAL
10 COMPATIBILITY AUTHORIZING THE
11 CONSTRUCTION OF AN OVERHEAD
12 DOUBLE-CIRCUIT 230 KV TRANSMISSION
13 LINE FROM THE EXISTING HENSHAW
14 SUBSTATION TO INTEL'S OCOTILLO
15 CAMPUS, A NEW RS-28 SUBSTATION TO BE
16 CONSTRUCTED ON INTEL'S OCOTILLO
17 CAMPUS, AND AN OVERHEAD TRANSITION
18 CORRIDOR AT THE EXISTING SCHRADER
19 SUBSTATION, ALL WITHIN THE CITY OF
20 CHANDLER, MARICOPA COUNTY,
21 ARIZONA.

Docket No. L-00000B-21-0322-00195

Case No. 195

**CERTIFICATE OF
ENVIRONMENTAL
COMPATIBILITY**

22 **A. INTRODUCTION.**

23 Pursuant to notice given as provided by law, the Arizona Power Plant and
24 Transmission Line Siting Committee (Committee) held a public hearing on November 8
25 through November __, 2021 in Chandler, Arizona, in conformance with the requirements
26 of Arizona Revised Statutes (A.R.S.) §§ 40-360, *et seq.*, for the purpose of receiving
27 evidence and deliberating on the application (Application) of Salt River Project
Agricultural Improvement and Power District (Applicant or SRP) for a Certificate of
Environmental Compatibility (Certificate) in the above-captioned case.

The following members and designees of members of the Committee were present
at one or more of the hearing days for the evidentiary presentations, public comment,
and/or the deliberations:

Paul A. Katz	Chairman, Designee for Arizona Attorney General Mark Brnovich
Zachary Brnum	Designee of the Chairman, Arizona Corporation Commission (Commission)

1	Leonard C. Drago	Designee for Director, Arizona Department of Environmental Quality
2	John R. Riggins	Designee for Director, Arizona Department of Water Resources
3		
4	Mary Hamway	Appointed Member, representing incorporated cities and towns
5	Rick Grinnell	Appointed Member, representing counties
6	James Palmer	Appointed Member, representing agricultural interests
7	Jack Haenichen	Appointed Member, representing the general public
8	Margaret "Toby" Little	Appointed Member, representing the general public
9	Karl Gentles	Appointed Member, representing the general public
10		

11 The Applicant was represented by J. Matthew Derstine of Snell and Wilmer, LLP,
 12 and by Karilee Ramaley of SRP. The City of Chandler joined as a party pursuant to A.R.S.
 13 § 40-360.05 and was represented by Jeffrey W. Crockett of Crockett Law Group, PLLC,
 14 and Kelly Schwab of the City of Chandler. The following parties were granted intervention
 15 pursuant to A.R.S. § 40-360.05: The Reserve at Fulton Ranch Homeowners' Association,
 16 Pinelake Estates Homeowners' Association and Southshore Village Homeowners'
 17 Association, all represented by Meghan Grabel of Osborn Maledon, P.A.

18 At the conclusion of the hearing, the Committee, after considering the (i)
 19 Application, (ii) evidence, testimony and exhibits presented by Applicant and interveners,
 20 and (iii) comments of the public, and being advised of the legal requirements of A.R.S. §§
 21 40-360 through 40-360.13, upon motion duly made and seconded, voted **X to X** to
 22 **grant/deny** the Applicant, its successors and assigns, this Certificate for construction of the
 23 High-Tech Interconnect Project as described below.

24 **B. PROJECT OVERVIEW.**

25 The High-Tech Interconnect Project (the Project) is being developed to serve the
 26 increased energy demands of Intel Corporation by interconnecting a new substation on the
 27 Intel Campus (RS-28 Substation) to SRP's existing Henshaw Substation and Schrader

Substation with new double-circuit and single-circuit 230 kV transmission lines, all located within the City of Chandler, Arizona.

The Project consists of both aboveground and underground transmission line segments, but only the aboveground transmission line segments of the Project, together with the RS-28 Substation, were presented to the Committee for consideration pursuant to A.R.S. §40-360(10). The components of the Project covered by the Application and this Certificate (CEC Project Components) consist of the following:

- ***Henshaw Substation to RS-28 Substation.*** A double-circuit 230 kV transmission line and structures constructed from the Henshaw Substation along Old Price Road to the RS-28 Substation on Intel's Ocotillo Campus;
- ***New RS-28 Substation.*** The RS-28 Substation constructed on the Intel Campus; and;
- ***Schrader Substation to the Underground Transition.*** Two independent single-circuit 230 kV transmission lines and structures constructed to permit the interconnection of the new lines on the east side of the Schrader Substation that will follow one of three alternative route options to reach the point at which the new 230 kV lines will be constructed underground.

C. DESCRIPTION OF CEC COMPONENTS.

The components of the Project presented to the Committee in the Application and [approved] by this Certificate are described in detail below:

Henshaw Substation to RS-28 Substation.

The first CEC Project component consists of a new double-circuit 230 kV transmission line that travels south from the existing Henshaw Substation along Old Price Road for 2.74 miles to a point on the western boundary of Intel's Ocotillo Campus where it will transition to an underground line and interconnect with the new RS-28 Substation, located roughly 0.3 miles east of Old Price Road.

1 The new double-circuit 230 kV transmission line will be constructed within a
 2 corridor that extends 200 feet east of the Gila River Indian Community boundary along Old
 3 Price Road. The transmission line will be constructed in an 80-foot-wide easement to be
 4 obtained from private landowners and the City of Chandler.

5 The Henshaw Substation to RS-28 Substation project components are more fully
 6 described on Exhibit "A".

7 ***The RS-28 Substation***

8 The second CEC Project component consists of a new RS-28 Substation and
 9 associated transmission lines and structures. The RS-28 Substation will be located on
 10 approximately 23 acres of land on the Intel Ocotillo Campus east of Old Price Road and
 11 north of the Chandler Heights Road. The substation will be enclosed by a 12-foot tall
 12 decorative, masonry wall around the entire perimeter. The approximate size and location of
 13 the RS-28 Substation are shown on Exhibit A.

14 ***Schrader Substation to Underground Transition***

15 The final CEC Project component consists of two new overhead single-circuit 230
 16 kV transmission lines or circuits that will be constructed to interconnect to the Schrader
 17 Substation at the 230 kV bays located on the east side of the Schrader Substation.

18 ***Circuit One – Southern Boundary to the West or East.*** The first 230 kV circuit
 19 (Circuit One) will be constructed to interconnect to one of the open 230 kV bays on the
 20 east side of the Schrader Substation. Circuit One will be constructed (1) utilizing one riser
 21 structure where Circuit One transitions to underground construction within the Schrader
 22 Substation and follows the southern boundary of the Schrader Substation to the west where
 23 it will exit the Schrader Overhead Transition Corridor and be constructed along the Union
 24 Pacific Railroad (UPRR) as shown on Exhibit B-1; or (2) if SRP is unable to secure the
 25 necessary right-of-way (ROW) to follow the UPRR, Circuit One will exit to the east where
 26 it will be constructed utilizing one riser structure where it will transition to underground
 27

1 construction within the Schrader Substation and follow the East Route Option as shown on
2 Exhibit B-2.

3 ***Circuit Two – Northern Boundary to the West or East Route Option.*** The second
4 230 kV circuit (Circuit Two) will be constructed as one of the following two options: (1)
5 The first option would consist of an aboveground transmission line that will be co-located
6 with the existing Santan to Corbell 230 kV transmission line approved in Decision No.
7 59791 as modified by Decision No. 60099 (Corbell to Schrader alignment) where the two
8 circuits would be constructed as an above ground, double-circuit 230 kV transmission line
9 on monopole structures. The new double-circuit 230 kV transmission line would continue
10 along the existing ROW for the Corbell to Schrader alignment within the Schrader
11 Overhead Transition Corridor to the point that it will transition to underground
12 construction at or near the western edge of the Schrader Overhead Transition Corridor
13 where it will join Circuit One along the UPRR as shown on Exhibit B-1; or (2) if SRP is
14 unable to secure the necessary right-of-way (ROW) to follow the UPRR, Circuit Two will
15 exit to the east where it will be constructed utilizing one riser structure where it will
16 transition to underground construction within the Schrader Substation and follow the East
17 Route Option as shown on Exhibit B-2.

18 **D. ADDITIONAL APPROVALS**

19 The approval to co-locate Circuit Two with the Corbell to Schrader alignment under
20 the terms of this Certificate as outlined above shall be deemed to amend Decision No.
21 59791 and Decision No. 60099 to authorize the reconstruction of the Corbell to Schrader
22 alignment within the existing ROW as a double-circuit 230 kV transmission line inside the
23 Schrader Overhead Transition Corridor.

24 In addition, SRP is specifically authorized to relocate the initial interconnection
25 point for Circuit One and/or Circuit Two within the Schrader Substation during the term of
26 this Certificate for the purpose of allowing for the change in bay positions and such change
27

1 in bay positions may necessitate the use of up to three aboveground structures for such
2 changes.

3 The typical transmission structure heights will be in the range of 100 to 185 feet but
4 will not exceed 199 feet and will occupy a right-of-way width of 100 feet where available.

5 CONDITIONS

6 This Certificate is granted upon the following conditions:

7 1. This authorization to construct the Project shall expire ten (10) years from the
8 date this Certificate is approved by the Arizona Corporation Commission, with or without
9 modification. Construction of the Project shall be complete, such that the Project is in-
10 service within this ten-year timeframe. However, prior to the expiration of the time period,
11 ~~APS-the Applicant~~ may request that the Commission extend the time limitation. [Case No.
12 190]

13 2. In the event that the Project requires an extension of the term(s) of this
14 Certificate prior to completion of construction, ~~APS~~the Applicant shall file such time
15 extension request at least one hundred and eighty (180) days prior to the expiration of the
16 Certificate. ~~APS~~The Applicant shall use reasonable means to promptly notify the Board of
17 Supervisors of Maricopa County, ~~Arizona State Land Department ("ASLD") the City of~~
18 ~~Chandler, the Gila River Indian Community, UPRR~~ and all cities and towns within a five
19 (5) mile radius of the centerline of the Project and all landowners and residents within a
20 five (5) mile radius of the centerline of the Project, all persons who made public comment
21 at this proceeding who provided a mailing or email address, and all parties to this
22 proceeding. The notification provided will include the request and the date, time, and place
23 of the hearing or open meetings during which the Commission will consider the request for
24 extension. Notification shall be no more than three (3) business days after ~~APS-the~~
25 ~~Applicant~~ is made aware of the hearing date or the open meeting date. [Case No. 190]

26 3. During the development, construction, operation, maintenance and
27 reclamation of the Project, ~~APS-the Applicant~~ shall comply with all existing applicable air

1 and water pollution control standards and regulations, and with all existing applicable
 2 statutes, ordinances, master plans and regulations of any governmental entity having
 3 jurisdiction including, but not limited to, the United States of America, the State of
 4 Arizona, Maricopa County, ~~ASLD~~, and their agencies and subdivisions, including but not
 5 limited to the following:

- 6 a. All applicable land use regulations;
- 7 b. All applicable zoning stipulations and conditions including but not limited to,
 8 landscaping and dust control requirements;
- 9 c. All applicable water use, discharge and/or disposal requirements of the Arizona
 10 Department of Water Resources and the Arizona Department of Environmental
 11 Quality;
- 12 d. All applicable noise control standards; and
- 13 e. All applicable regulations governing storage and handling of hazardous
 14 chemicals and petroleum products. [Case No. 190]

15 4. ~~APS-The Applicant~~ shall obtain all approvals and permits necessary to
 16 construct, operate and maintain the Project required by any governmental entity having
 17 jurisdiction including, but not limited to, the United States of America, the State of
 18 Arizona, Maricopa County, ~~ASLD~~, and their agencies and subdivisions. [Case No. 190]

19 5. ~~APS-The Applicant~~ shall comply with the Arizona Game and Fish
 20 Department (AGFD) guidelines for handling protected animal species, should any be
 21 encountered during construction and operation of the Project, and shall consult with AGFD
 22 or U.S. Fish and Wildlife Service, as ~~necessary~~appropriate, on other issues concerning
 23 wildlife. [Case No. 190]

24 6. ~~APS-The Applicant~~ shall design the Project to incorporate reasonable
 25 measures to minimize electrocution of and impacts to avian species in accordance with the
 26 Applicant's avian protection program. Such measures will be accomplished through
 27 compliance with the incorporation of Avian Power Line Interaction Committee guidelines

set forth in the current versions of Suggested Practices for Avian Protection on Power Lines~~2006 Electrocutation Manual and the 2012 Collision Manual~~Reducing Avian Collisions with Power Lines manuals. [Case No. 190]

7. ~~APS-The Applicant~~ shall consult the State Historical Preservation Office (SHPO) with respect to cultural resources. If any archaeological, paleontological, or historical site or a significant cultural object is discovered on state, county or municipal land during the construction or operation of the Project, ~~APS~~the Applicant or its representative in charge shall promptly report the discovery to the Director of the Arizona State Museum (ASM), and in consultation with the Director, shall immediately take all reasonable steps to secure and maintain the preservation of the discovery as required by A.R.S. § 41-844. [Case No. 190]

8. ~~APS-The Applicant~~ shall comply with the notice and salvage requirements of the Arizona Native Plant Law (A.R.S §§ 3-901 *et seq.*) and shall, to the extent feasible, minimize the destruction of native plants during the construction and operation of the Project. [Case No. 190]

9. ~~APS-The Applicant~~ shall make every reasonable effort to promptly investigate, identify and correct, on a case-specific basis, all complaints of interference with radio or television signals from operation of the Project addressed in this Certificate and where such interference is caused by the Project take reasonable measures to mitigate such interference. ~~APS~~The Applicant shall maintain written records for a period of five (5) years of all complaints of radio or television interference attributable to operations, together with the corrective action taken in response to each complaint. All complaints shall be recorded to include notation on the corrective action taken. Complaints not leading to a specific action or for which there was no resolution shall be noted and explained. Upon request, the written records shall be provided to the Staff of the Commission. ~~APS-The Applicant~~ shall respond to complaints and implement appropriate mitigation measures. In addition, the Project shall be evaluated on a regular basis so that damaged insulators or

Commented [A1]: Change is suggested because there is no compliance requirement in the APLIC documents. The documents provide a toolbox for a utility to develop their own standards and best management practices. The utility specific standards incorporate APLIC practices that have been found to be effective at reducing bird injuries and mortalities.

These changes are proposed because APLIC is revising and updating the "electrocution manual," which will be available in the spring of 2022. The new publication of the "electrocution manual" will be in an electronic format only and will no longer reference a specific publication date, likely just a version.

1 other line materials that could cause interference are repaired or replaced in a timely
2 manner. [Case No. 190]

3 10. If human remains and/or funerary objects are encountered ~~on private land~~
4 during the course of any ground-disturbing activities related to the construction or
5 maintenance of the Project, ~~APS-the Applicant~~ shall cease work on the affected area of the
6 Project and notify the Director of the ASM as required by A.R.S. § 41-865 for private land,
7 or as required by A.R.S. § 41-844 for state, county, or municipal lands. [Case No. 190]

8 11. Within one hundred twenty (120) days of the Commission's decision
9 approving this Certificate, ~~APS-the Applicant~~ shall post signs in or near public rights-of-
10 way, to the extent authorized by law, reasonably adjacent to the Project giving notice of the
11 Project. Such signage shall be no smaller than a roadway sign. The signs shall advise:

- 12 a. Future site of the Project;
- 13 b. A phone number and website for public information regarding the Project; and
- 14 c. Refer the Public to the Docket <https://edocket.azcc.gov/Seach/Docket-Search>.

15 Such signs shall be inspected at least once annually and, if necessary, be repaired or
16 replaced, and removed at the completion of construction. [Case No. 190]

17 12. ~~At least ninety (90) days before~~ Upon the [approval] of this Certificate by the
18 Committee, construction commences on the Project, APS-the Applicant shall provide cities
19 and towns within five (5) miles of the Project, the Board of Supervisors for Maricopa
20 County, ~~and ASLD the City of Chandler, the Gila River Indian Community, UPRR and~~
21 known builders and developers who are building upon or developing land within one (1)
22 mile of the centerline of the Project with a written description, including height and width
23 measurements of ~~atypical~~ structure types, of the Project. The written description shall
24 identify the location of the Project and contain a pictorial depiction of the facilities being
25 constructed. ~~APS-The Applicant~~ shall also encourage the developers and builders to
26 include this information in their disclosure statements. Upon approval of this Certificate

1 by the Commission, the Applicant may commence construction of the Project. [Case No.
2 190]

3 13. APS-The Applicant shall use non-specular conductor and non-reflective
4 surfaces for the transmission line structures on the Project. [Case No. 190]

5 14. APS-The Applicant shall be responsible for arranging that all field personnel
6 involved in the Project receive training as to proper ingress, egress, and on-site working
7 protocol for environmentally sensitive areas and activities. Contractors employing such
8 field personnel shall maintain records documenting that the personnel have received such
9 training. [Case No. 190]

10 15. APS-The Applicant shall follow the most current Western Electricity
11 Coordinating Council (WECC) and North American Electric Reliability Corporation
12 (NERC) planning standards, as approved by the Federal Energy Regulatory Commission
13 (FERC), National Electrical Safety Code (NESC) standards, and Federal Aviation
14 Administration (FAA) regulations. [Case No. 190]

15 16. APS-The Applicant shall participate in good faith in state and regional
16 transmission study forums to coordinate transmission expansion plans related to the Project
17 and to resolve transmission constraints in a timely manner. [Case No. 190]

18 17. When Project facilities are located parallel to and within one hundred (100)
19 feet of any existing natural gas or hazardous pipeline, APS-the Applicant shall:

- 20 a) Ensure grounding and cathodic protection studies are performed to show that
21 the Project's location parallel to and within one hundred (100) feet of such
22 pipeline results in no material adverse impacts to the pipeline or to public
23 safety when both the pipeline and the Project are in operation. APS-The
24 Applicant shall take appropriate steps to ensure that any material adverse
25 impacts are mitigated. APS-The Applicant shall provide to Staff of the
26 Commission, and file with Docket Control, a copy of the studies performed
27 and additional mitigation, if any, that was implemented as part of its annual

compliance-certification letter; and

- b) Ensure that studies are performed simulating an outage of the Project that may be caused by the collocation of the Project parallel to and within one hundred (100) feet of the existing natural gas or hazardous liquid pipeline. The studies should either: (a) show that such simulated outage does not result in customer outages; or (b) include operating plans to minimize any resulting customer outages. APS-The Applicant shall provide a copy of the study results to Staff of the Commission and file them with Docket Control as part of APS's the Applicant's annual compliance certification letter. [Case No. 190]

18. APS-The Applicant shall submit a compliance certification letter annually, identifying progress made with respect to each condition contained in this Certificate, including which conditions have been met. The letter shall be submitted to Commission's Docket Control commencing on ~~December 1, 2022~~March 15, 2022. Attached to each certification letter shall be documentation explaining how compliance with each condition was achieved. Copies of each letter, along with the corresponding documentation, shall be submitted to the Arizona Attorney General's Office. With respect to the Project, the requirement for the compliance letter shall expire on the date the Project is placed into operation. Notification of such filing with Docket Control shall be made to the Board of Supervisors for Maricopa County, City of Chandler, ASLD, all parties to this Docket, and all parties who made a limited appearance in this Docket. [Case No. 190]

19. APS-The Applicant shall provide a copy of this Certificate to the Board of Supervisors for Maricopa County, and the City of ~~Peoria~~Chandler. [Case No. 190]

20. Any transfer or assignment of this Certificate shall require the assignee or successor to assume, in writing, all responsibilities of APS-the Applicant listed in this Certificate and its conditions as required by A.R.S. § 40-360.08(A) and R14-3-213(F) of the Arizona Administrative Code. [Case No. 190]

21. In the event ~~APS~~the Applicant, its assignee, or successor, seeks to modify the Certificate terms at the Commission, it shall provide copies of such request to the Board of Supervisors for Maricopa County, the City of ~~Peoria~~Chandler, all parties to this Docket, and all parties who made a limited appearance in this Docket. [Case No. 190]

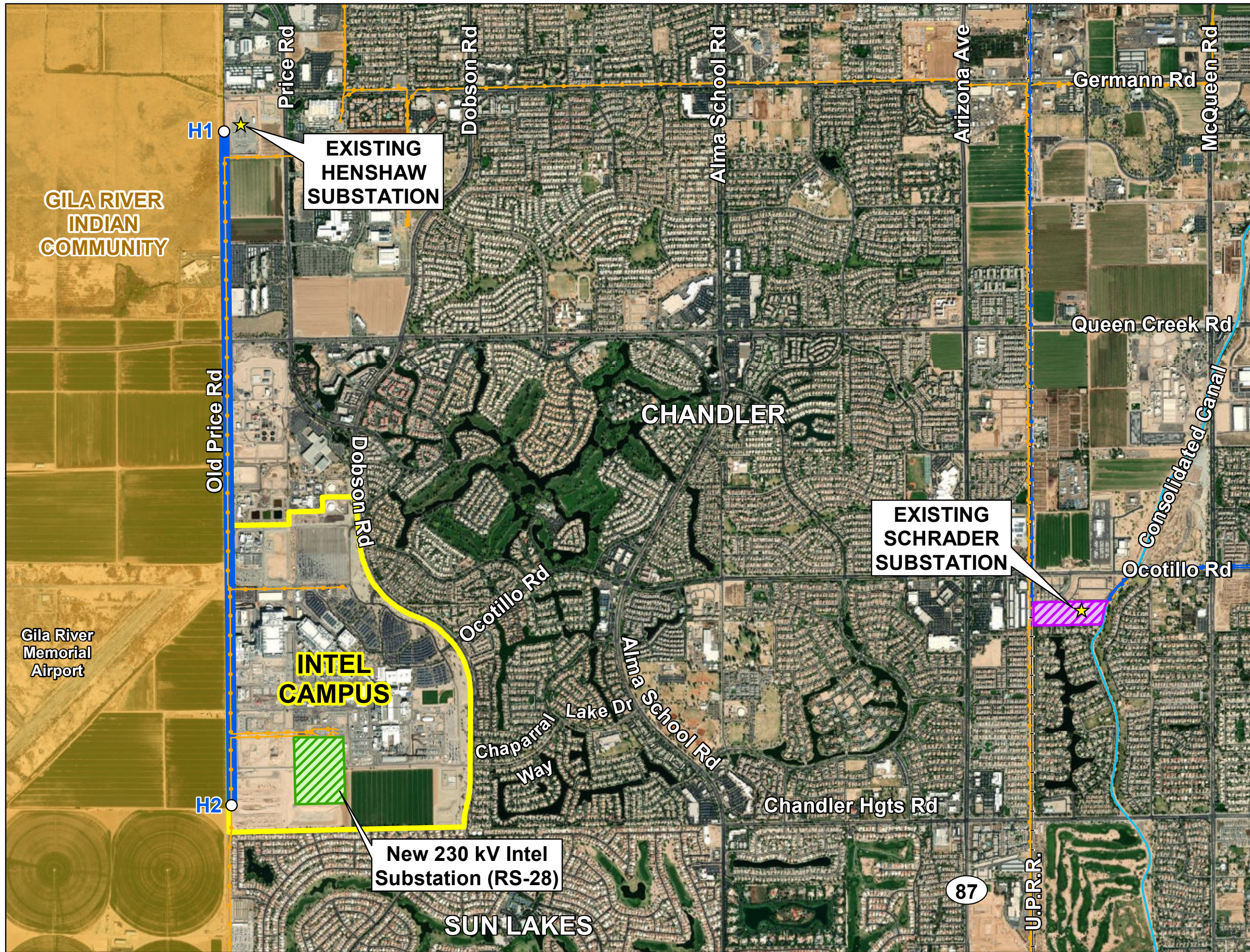
22. The Certificate Conditions shall be binding on ~~APS~~the Applicant, its successors, assignee(s) and transferees and any affiliates, agents, or lessees of ~~APS~~the Applicant who have a contractual relationship with ~~APS~~the Applicant concerning the construction, operation, maintenance or reclamation of the Project. ~~APS~~The Applicant shall provide in any agreement(s) or lease(s) pertaining to the Project that the contracting parties and/or lessee(s) shall be responsible for compliance with the Conditions set forth herein, and ~~APSThe~~the Applicant's responsibilities with respect to compliance with such Conditions shall not cease or be abated by reason of the fact that ~~APS~~the Applicant is not in control of or responsible for operation and maintenance of the Project facilities. [Case No. 190]

~~23.— APS shall provide the Commission Staff with copies of the interconnection agreement(s) it ultimately enters into with AES in connection with the AES ESP within thirty (30) days of execution of such agreement(s), with the summary thereof filed at Docket Control. [Case No. 190]~~

FINDINGS OF FACT AND CONCLUSIONS OF LAW

This Certificate incorporates the following Findings of Fact and Conclusions of Law:

1. The Project aids the state and the southwest region of the United States in meeting the need for an adequate, economical, and reliable supply of renewable electric power.
2. The Project aids the state, preserving a safe and reliable electric transmission system.
3. During the course of the hearing, the Committee considered evidence on the environmental compatibility on the Project as required by A.R.S. § 40-360 *et seq.*



Legend

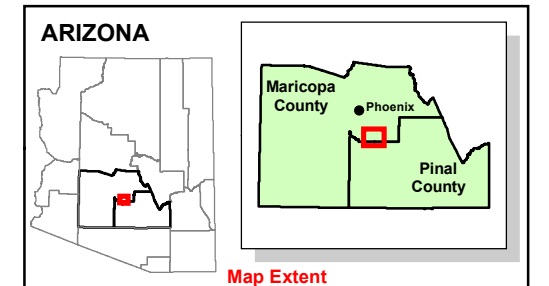
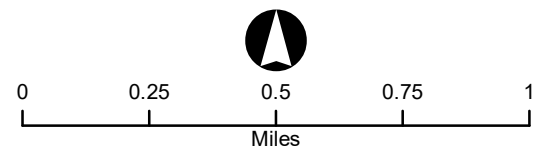
Project Components

- Node (Origin or Terminus)
- ★ Existing Substation
- Overhead 200-Ft Corridor
- ▨ Schrader Overhead Transition Corridor
- ▨ New 230 kV Intel Substation (RS-28)

General Features

- Existing 230 kV
- Existing 69 kV
- Railroad
- Canal
- Intel Campus
- Gila River Indian Community

SRP-13



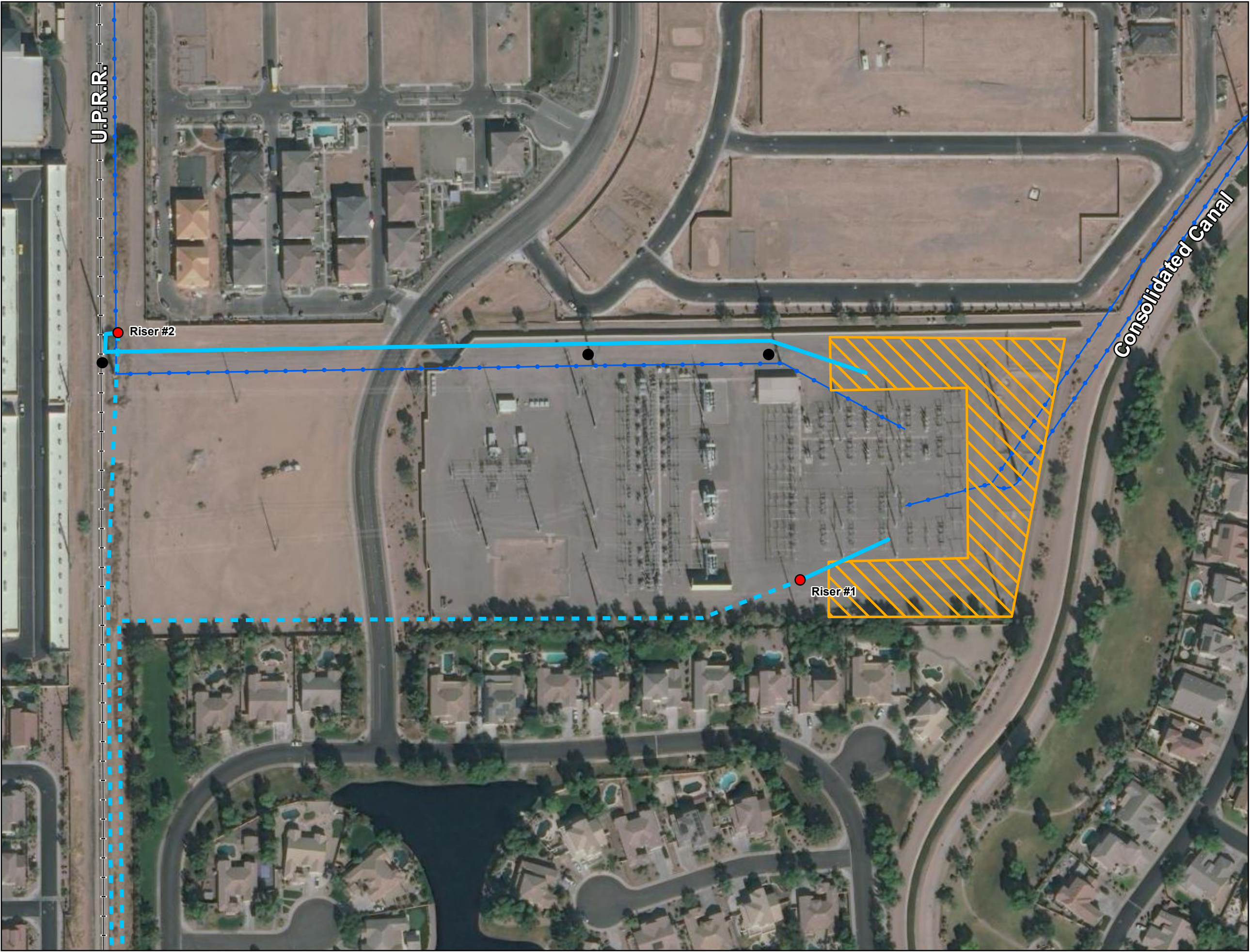
HIGH-TECH
INTERCONNECT PROJECT (HIP)

EXHIBIT A

Map Extent: Maricopa County, AZ

Date: 10.28.21

Author: sjw



Legend

Project Components

Existing Pole

New Riser Pole

Pole Placement Area for System Flexibility

Underground Route

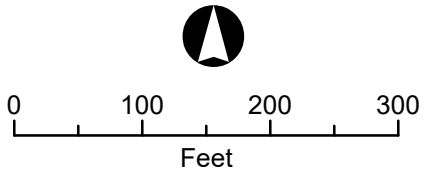
Overhead Route

General Features

Existing 230kV

Railroad

SRP-13





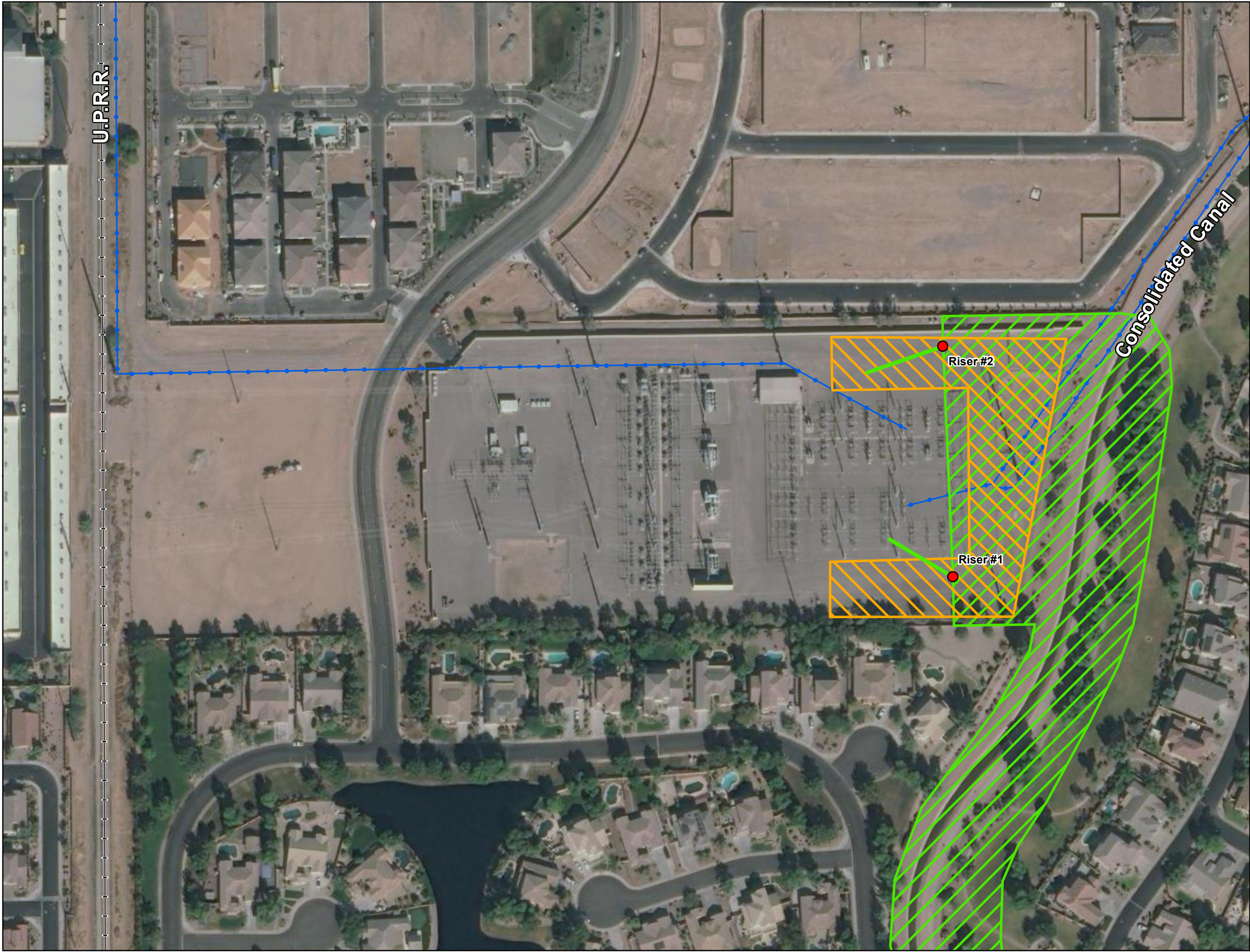
**HIGH-TECH
INTERCONNECT PROJECT (HIP)**

EXHIBIT B-1

Map Extent: Maricopa County, AZ

Date: 10.28.21

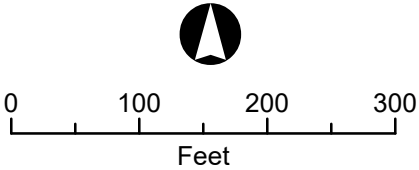
Author: sjw



Legend

- Project Components**
-  New Riser Pole
 -  Pole Placement Area for System Flexibility
 -  Overhead Route
 -  Underground Corridor
- General Features**
-  Existing 230kV
 -  Railroad

SRP-13





**HIGH-TECH
INTERCONNECT PROJECT (HIP)**

EXHIBIT B-2

Map Extent: Maricopa County, AZ

Date: 10.28.21	Author: sjw
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