



PHX WATER SMART

Drought Pipeline Project



Summary of Petition Requests:

- ▶ **Stop Projects: *48-inch Pipe & 66-inch Pipe***
- ▶ **City Charter Concern**
- ▶ **North Phoenix Water Options**
- ▶ **Water Conservation**
- ▶ **Alignment Study and Public Input**
- ▶ **City Council Action on Projects**
- ▶ **Oversight Hearing**

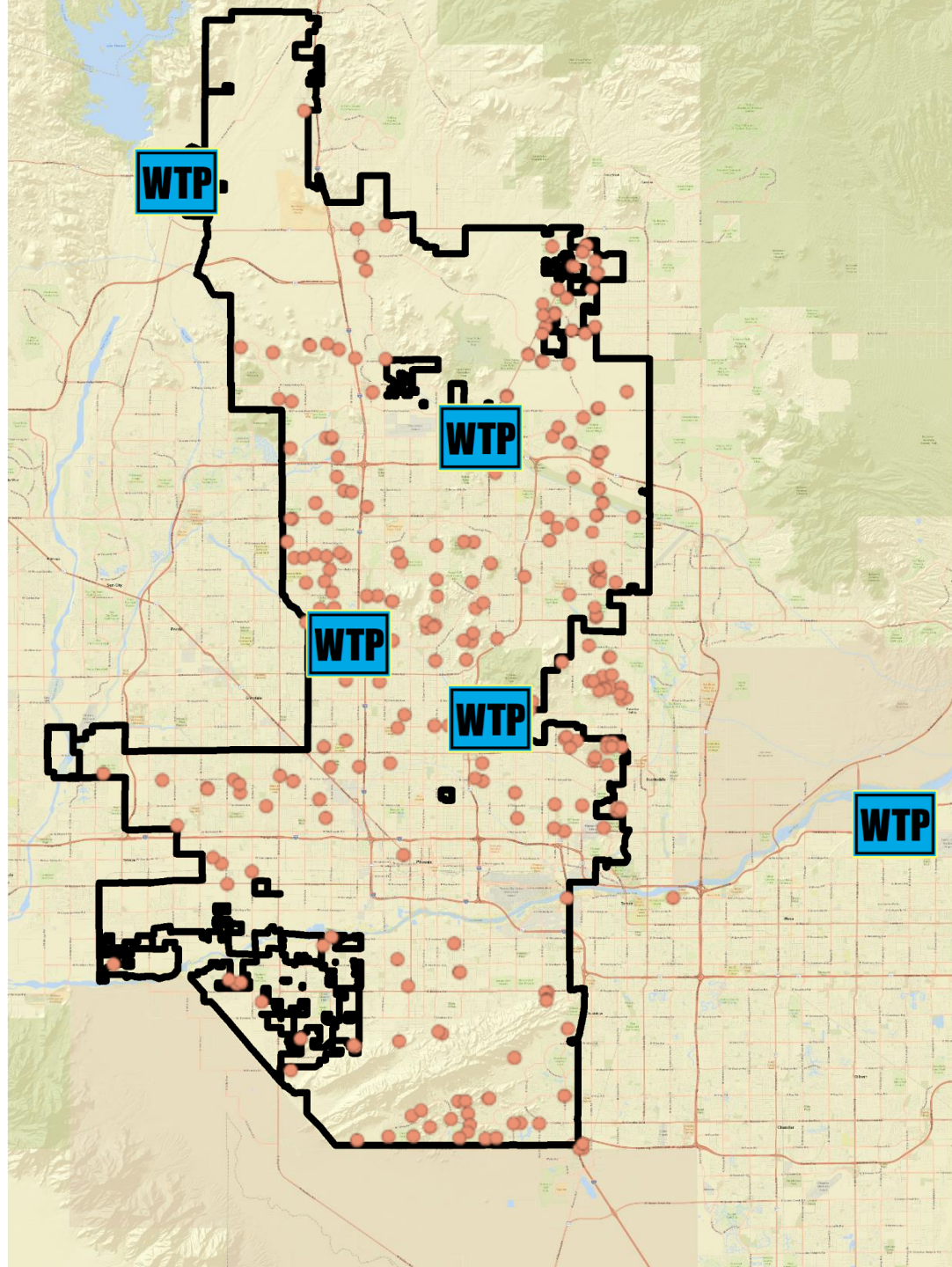




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City of Phoenix Water System

- 1.7 Million Customers
- 7000 miles of water mains
- 5 Water Treatment Plants
- 192 pumps, reservoirs wells



Large Pipe

- “Arteries” of Water System
- 600 Miles of Large Pipes
- Prestressed Concrete Cylinder Pipe

Tucson, AZ - 1999



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Phoenix, AZ - 2006





Phoenix, AZ - 2006



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Inspection Program



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Existing 48-inch pipe

Northern Ave



12th Street

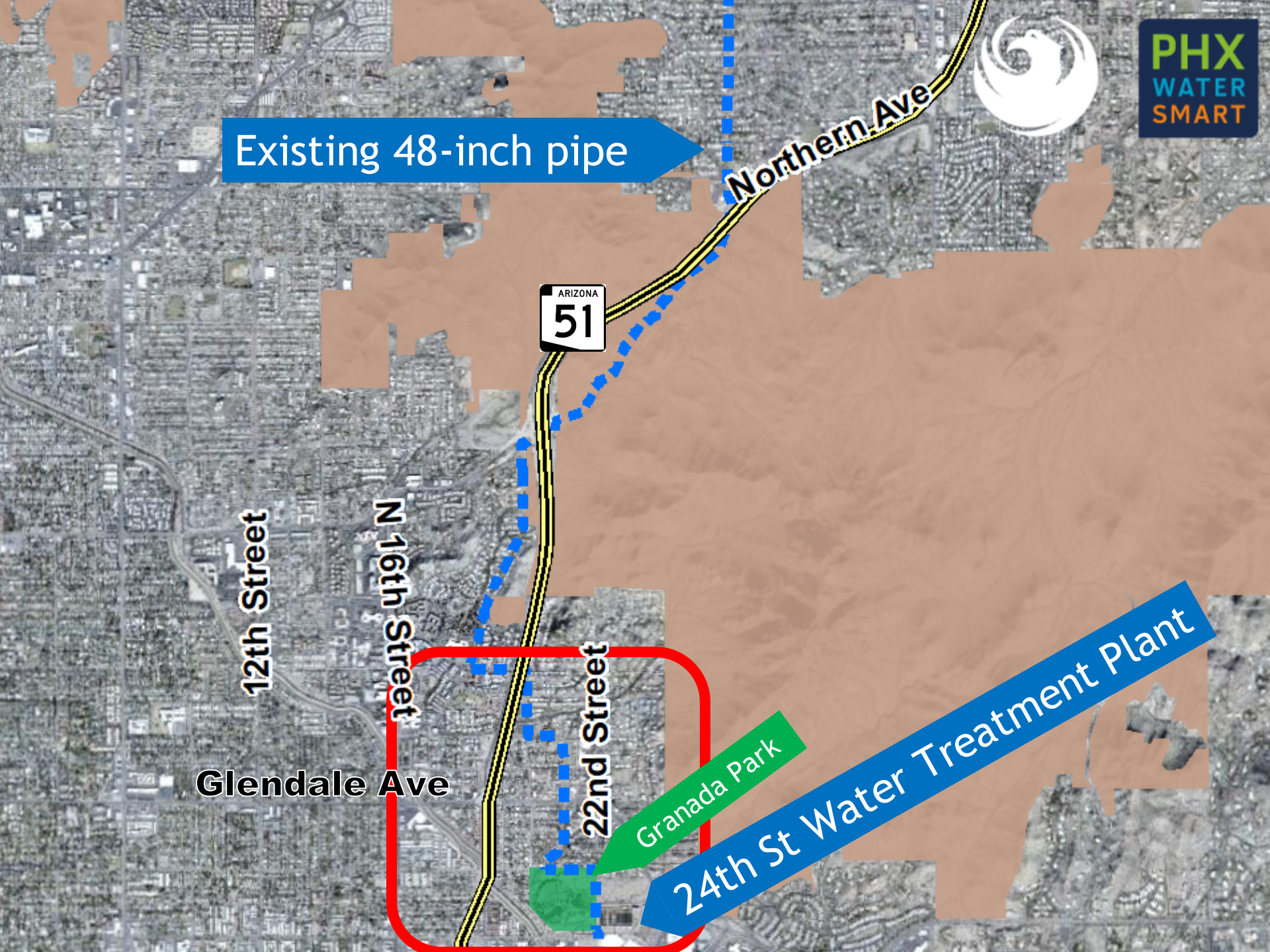
N 16th Street

22nd Street

Glendale Ave

Granada Park

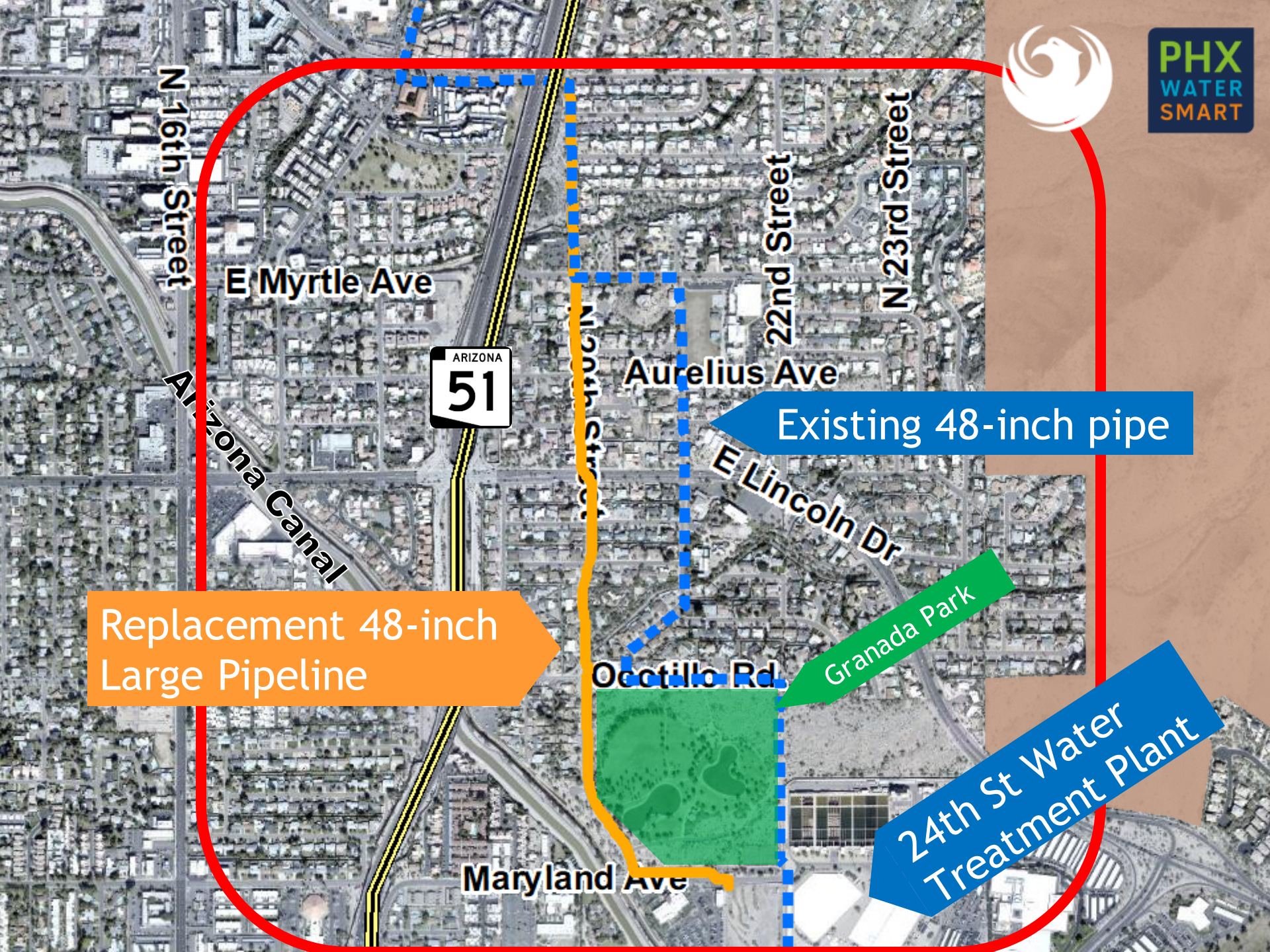
24th St Water Treatment Plant



Cracks



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Existing 48-inch pipe

Replacement 48-inch Large Pipeline

24th St Water Treatment Plant

Granada Park

N 16th Street

E Myrtle Ave

Arizona Canal

N 20th Street

Aurelius Ave

22nd Street

N 23rd Street

E Lincoln Dr

Ocotillo Rd

Maryland Ave

- **May 16, 2018 - Council approval of design contracts for the engineer and CMAR**

- **September 18, 2019 - Council approval of construction contract**

Replacement 48-inch
Large Pipeline

- **Construction for 48-inch replacement anticipated March 2020 – Fall 2020**

Existing 48-inch pipe

Granada Park

24th Water Treatment Plant



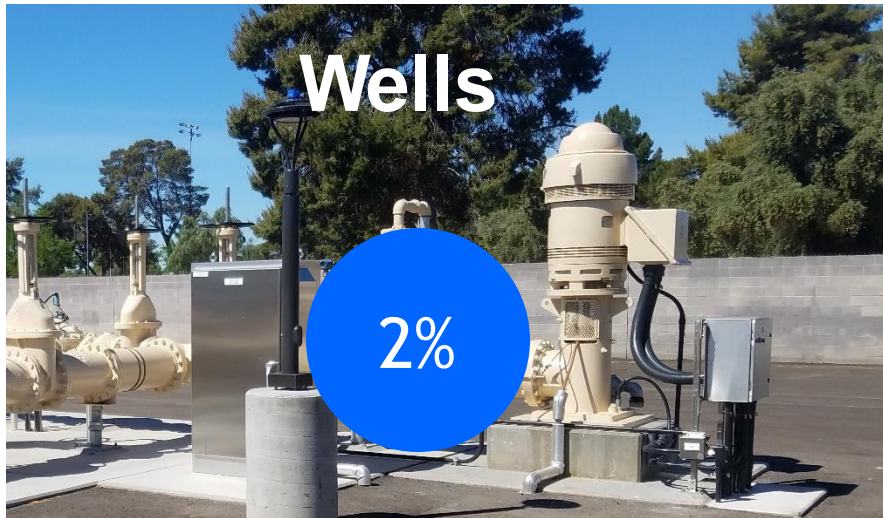
Drought Pipeline



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Phoenix Water Supplies





Water Level Near Capacity - 1998

Water Level in February - 2019

Potential Future Water Level

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○ DESIGNATES RECHARGE PROJECT

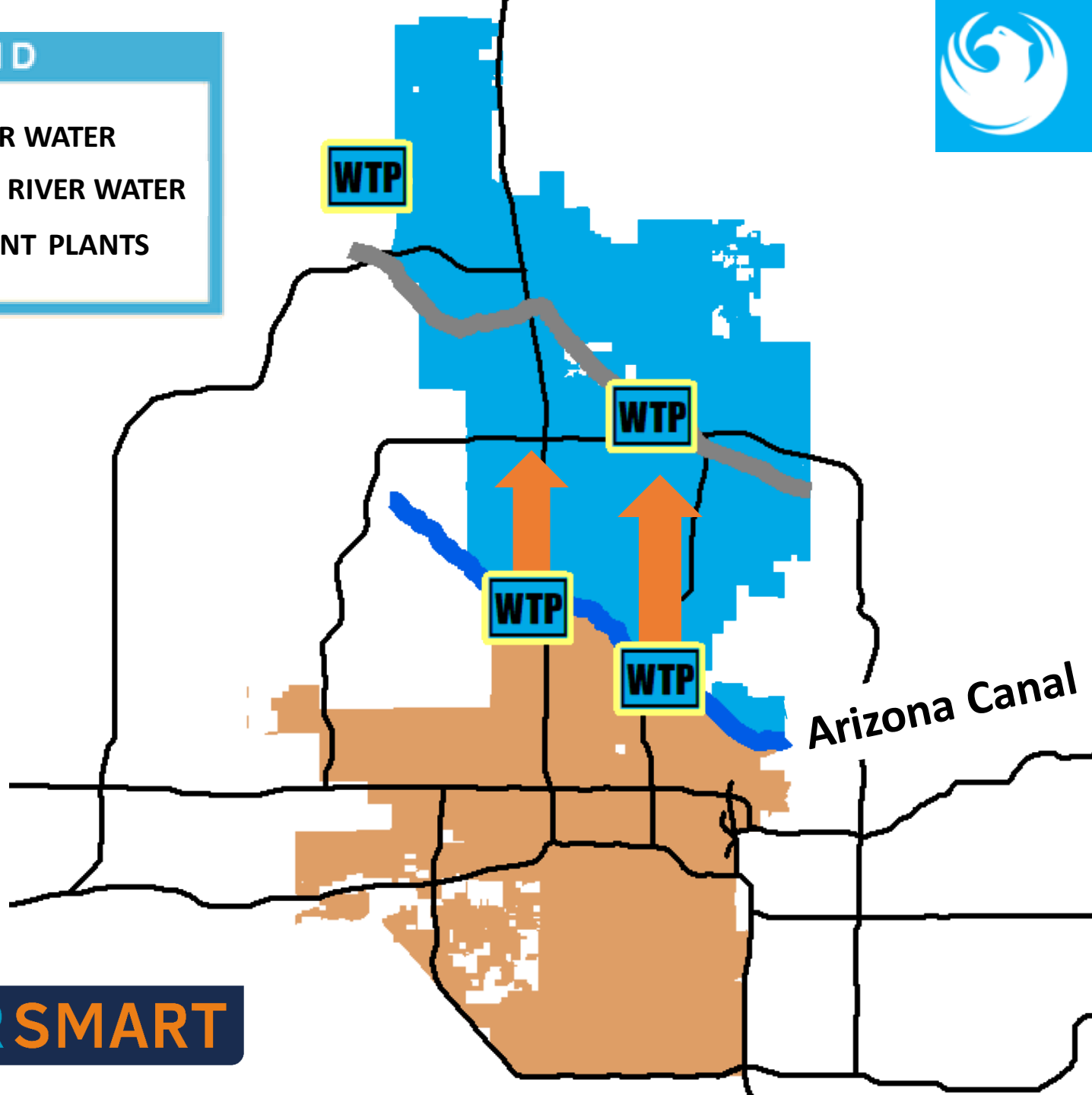


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LEGEND

-  COLORADO RIVER WATER
-  SALT AND VERDE RIVER WATER
-  WATER TREATMENT PLANTS



Arizona Canal



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Existing 48-inch pipe

Northern Ave



New 66-inch Pipeline

Canal

12th Street

N 16th Street

Glendale Ave

22nd Street

Granada Park

24th St Water Treatment Plant



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Pipeline Analysis: Cave Creek Rd

Cave Creek Rd.

Shea Blvd



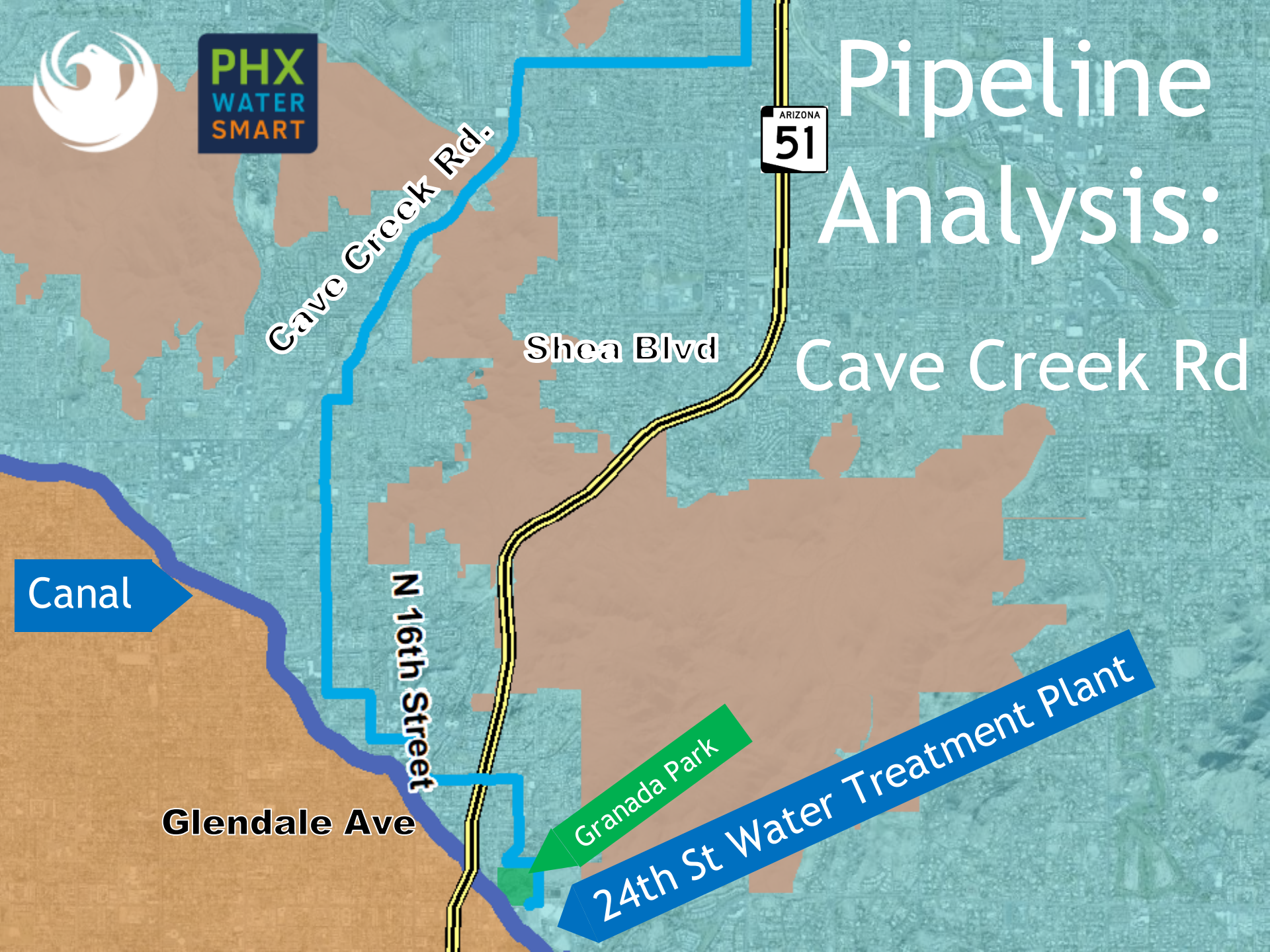
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant





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Pipeline Analysis:

Canal/Drainage

Gave Creek Rd.

Shea Blvd



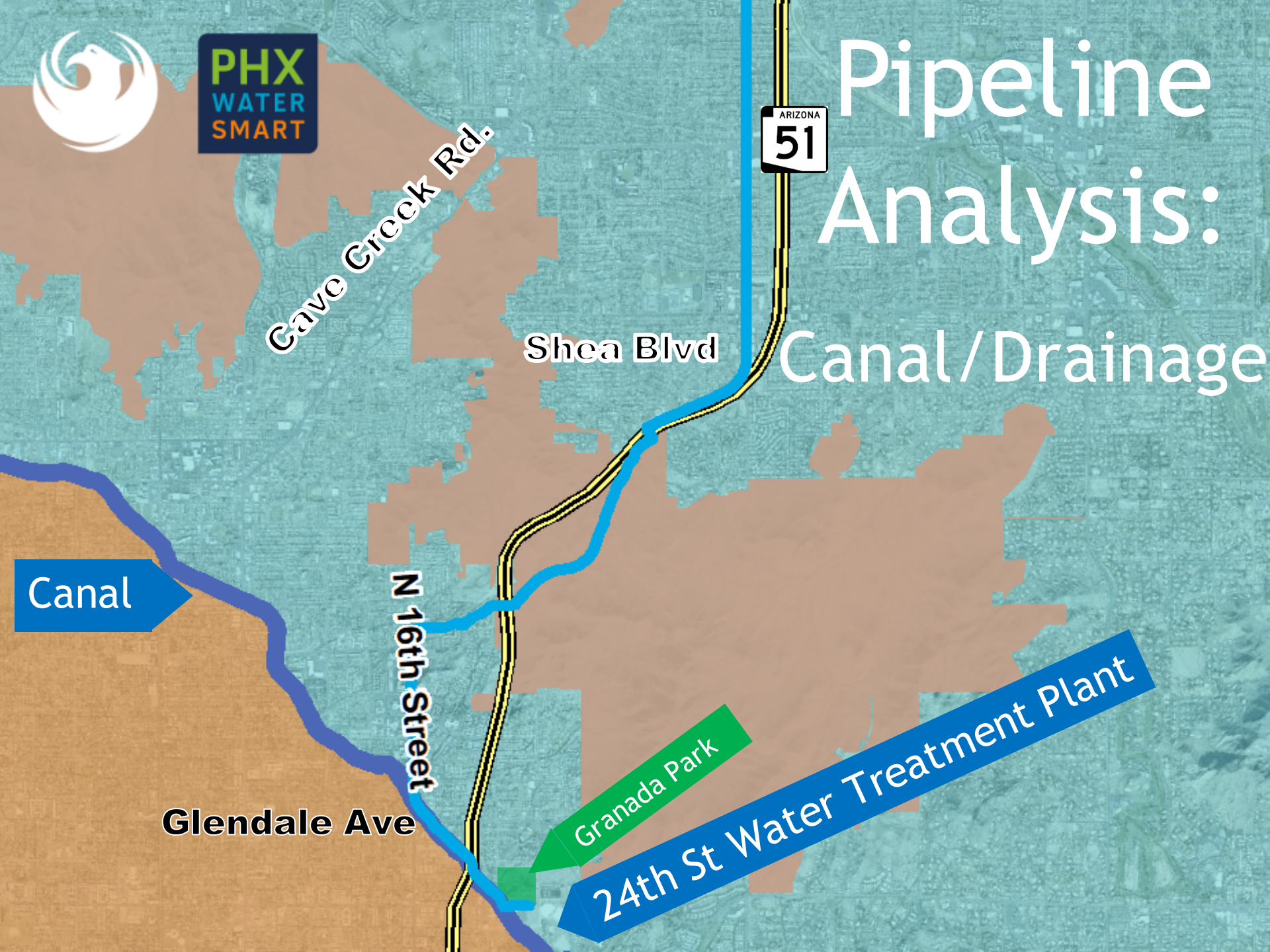
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant





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Pipeline Analysis: 16th Street

Gave Creek Rd.

Shea Blvd



16th Street

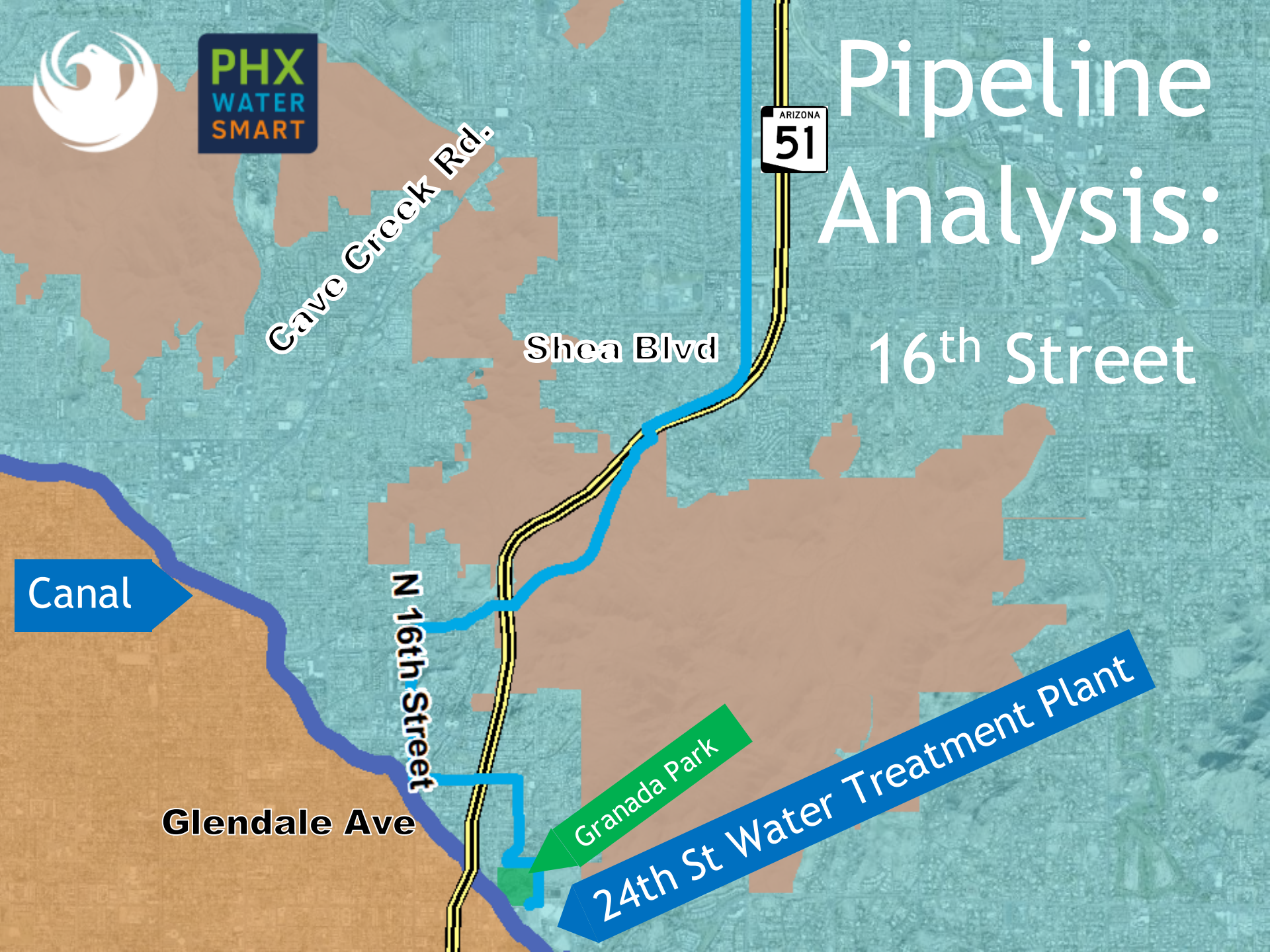
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant





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Pipeline Analysis: Dreamy Draw Dam

Gave Creek Rd.

Shea Blvd



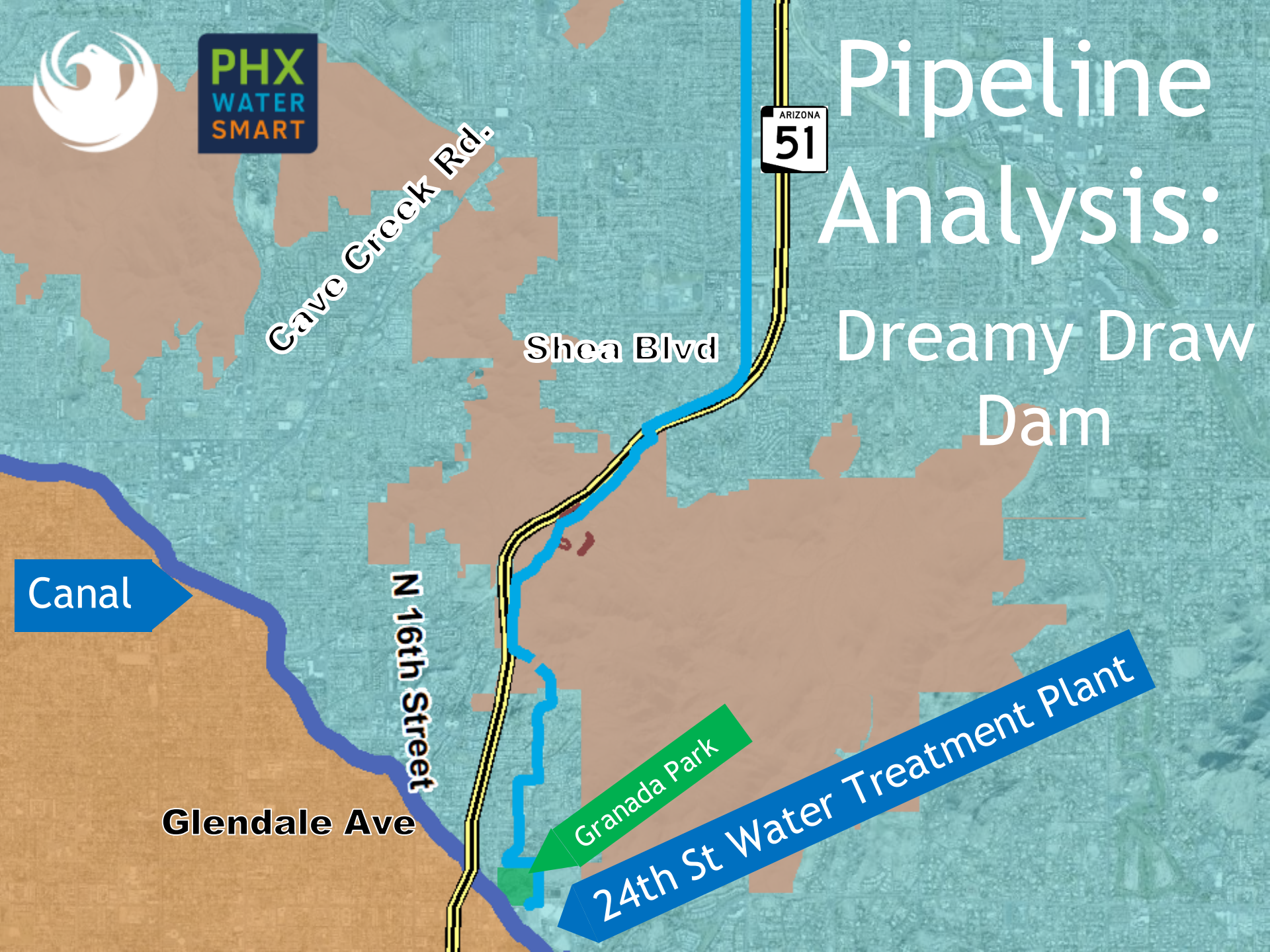
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant





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Pipeline Analysis:



ADOT Alignment

Cave Creek Rd.

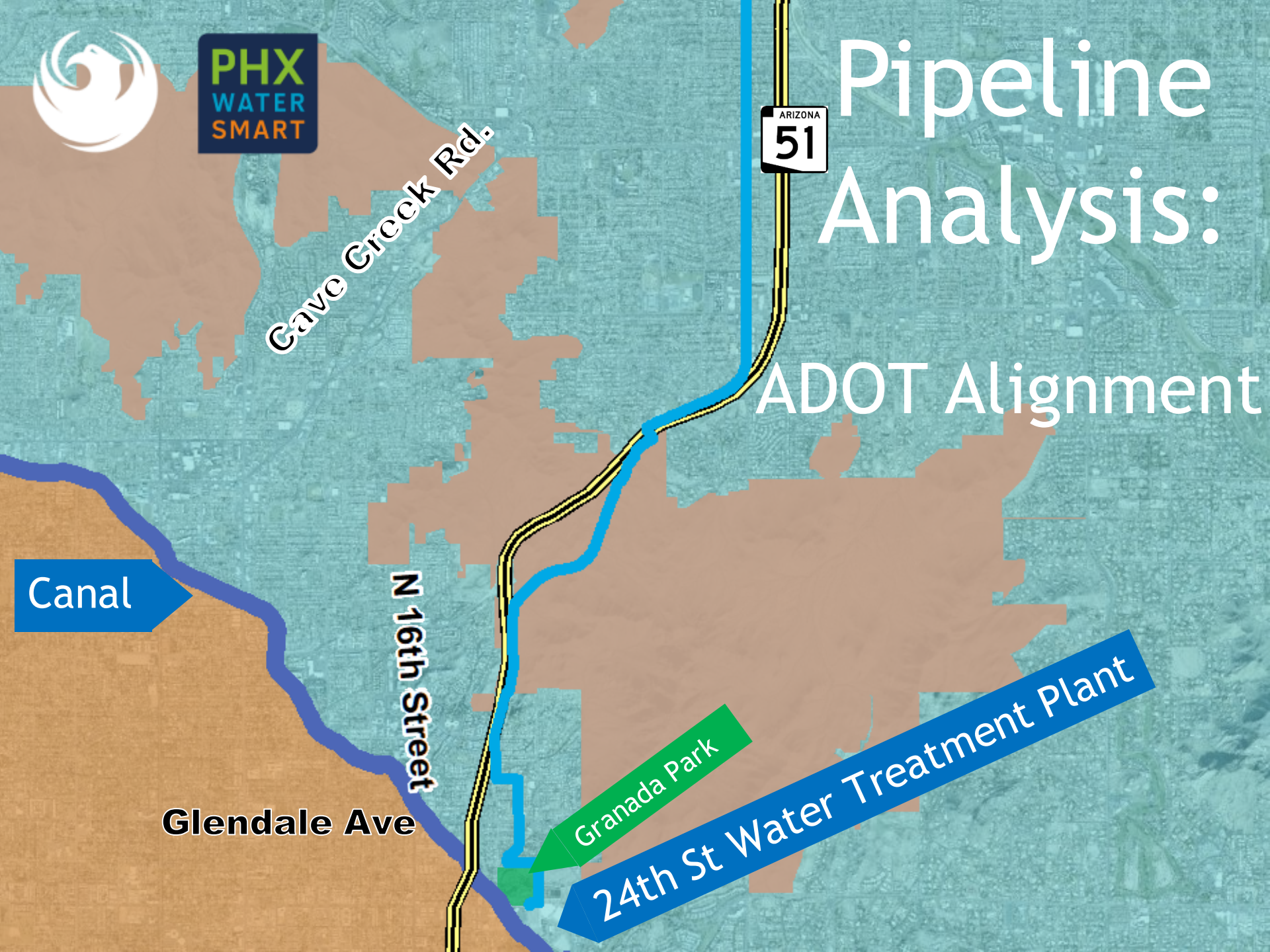
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant





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Pipeline Analysis:



22nd St

Cave Creek Rd.

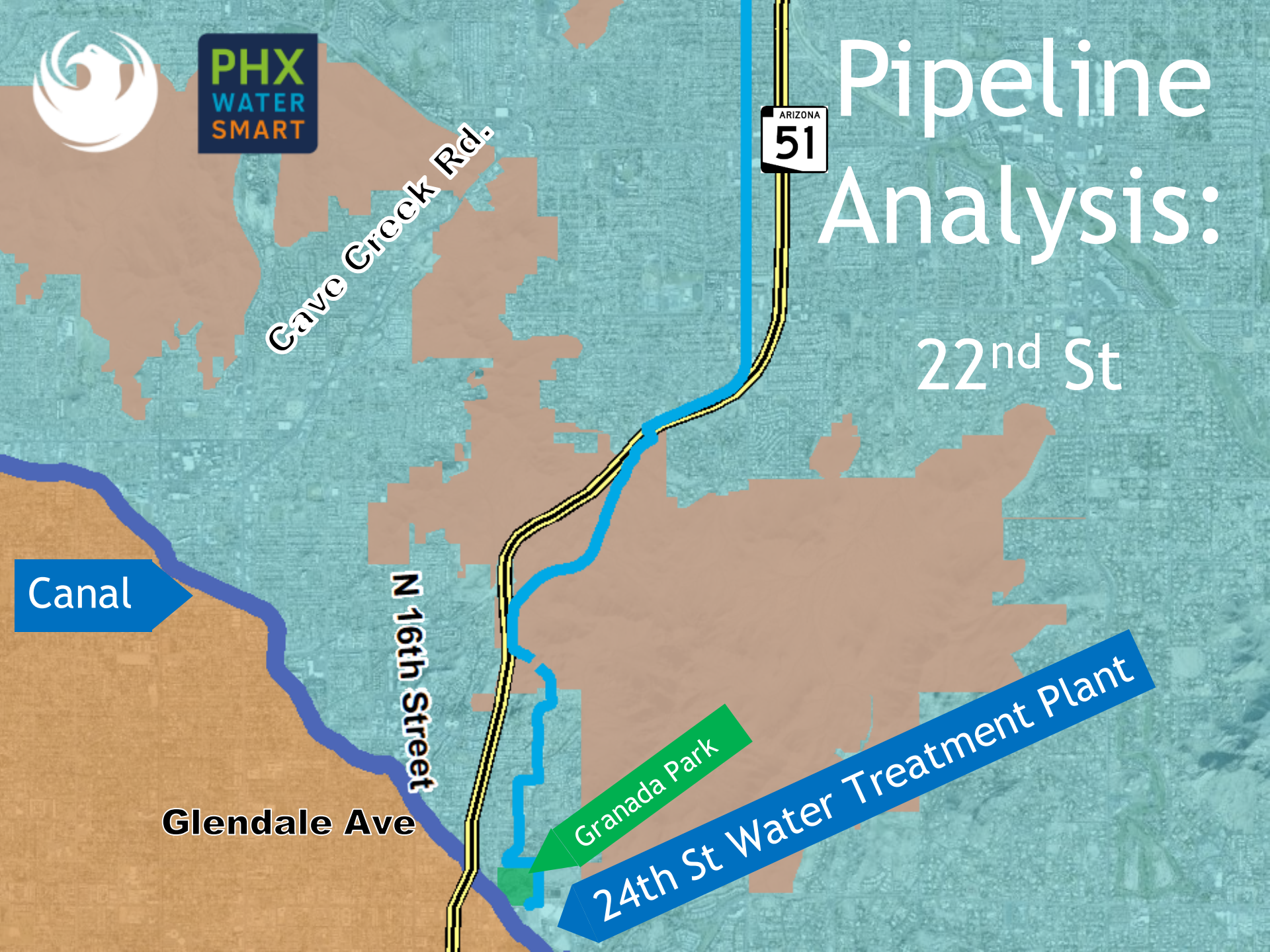
Canal

N 16th Street

Glendale Ave

Granada Park

24th St Water Treatment Plant



Legal Authority

- ▶ Phoenix City Charter Chapter XXVI, Section 3:
- ▶ The Council "shall at all times have the power and authority within and in conjunction with any City Mountain Preserve to take appropriate action to...develop to the extent necessary City-owned flood control and water treatment facilities."
- ▶ This language retains for the council the ordinary authority and power over Preserve property for those limited purposes.
- ▶ No special hearings, finding, or other requirements are imposed by the Charter



City Design Standards

- ▶ Section III.B requires a route study or alignment report, which was completed by Project Engineering Consultants
- ▶ The minimum easement width of eighty feet noted by citizen petitioners does not apply, as the pipelines are being constructed within the public right-of-way, not an easement.
- ▶ Section III.B.1 generally requires adherence to Standard Utility Locations Manual for the City of Phoenix, but specifically states that "there may be instances where the standards cannot be applied."





Outreach

INVESTING IN OUR WATER FUTURE
INVERTIENDO EN AGUA PARA NUESTRO FUTURO

COMING SOON:
WATER MAIN CONSTRUCTION

Be Aware, Plan Ahead

PRÓXIMAMENTE:
CONSTRUCCIÓN PRINCIPAL DE AGUA

Infórmese, Planifique con anticipación

COMING SOON:
WATER MAIN CONSTRUCTION

Be Aware, Plan Ahead

PRÓXIMAMENTE:
CONSTRUCCIÓN PRINCIPAL DE AGUA

Infórmese, Planifique con anticipación

PUBLIC MEETING

October 24, 2019
 6:00 pm — 7:30 pm

Madison Heights Elementary School
 7150 N 22nd St, Phoenix, AZ 85020

INVESTING IN OUR WATER FUTURE
INVERTIENDO EN AGUA PARA NUESTRO FUTURO

YOU'RE INVITED: PUBLIC MEETING **ESTÁ INVITADO: REUNIÓN PÚBLICA**

The City of Phoenix Water Services Department is building additional infrastructure to ensure all customers will have access to clean and reliable drinking water for generations to come. With shortages looming on the Colorado River, these improvements will provide a way to move more abundant Salt and Verde River water supplies to those areas at risk for shortage.

El Departamento de Servicios de Agua de la Ciudad de Phoenix está construyendo infraestructura adicional para asegurar que todos sus clientes tengan acceso a agua potable limpia y fiable para generaciones futuras. Con la escasez inminente en el Río Colorado, estas mejoras proporcionarán una manera de mover los suministros de agua más abundantes de los ríos Salt y Verde a las zonas en riesgo de escasez.

The City of Phoenix is holding a public meeting to discuss the project and potential impacts to surrounding neighborhoods.

La ciudad de Phoenix tendrá una reunión pública para discutir el proyecto y el impacto que tendrá en los vecindarios y sus alrededores.

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Mejoras en la Infraestructura para Nuestro Futuro

El Departamento de Servicios de Agua de la Ciudad de Phoenix está diseñando infraestructura para proporcionar un suministro de agua potable limpia y fiable para aproximadamente 12 millones de personas y aproximadamente 12 millones de galones de agua potable cada día para las zonas de la Ciudad de Phoenix.

Los mejoramientos brindarán agua que ha sido almacenada en una zona de la ciudad para un sistema total de agua para la Ciudad para los clientes de la Ciudad.

El diseño de ingeniería para la nueva infraestructura dará redundancia al sistema de suministro de agua para garantizar un suministro seguro y estable de agua durante operaciones normales.

Los mejoramientos se realizarán en etapas y se completarán a principios de 2020 hasta finales de 2022.

Para obtener más información, llámanos al (602) 235-2666

PERSONAL DE PROYECTO
 Carlos Frías, P.E.
 Director de Proyecto
 Departamento de Servicios de Abastecimiento de Agua de la Ciudad de Phoenix
 Dirección de Proyecto
 Dirección de Ingeniería

FORMATO ALTERNATIVO
 Para obtener esta publicación en Braille, llámanos al (602) 235-2666. Tenga en cuenta que el Braille puede no estar disponible para todos los formatos de este proyecto.

INVESTING IN OUR WATER FUTURE
INVERTIENDO EN AGUA PARA NUESTRO FUTURO

PHX WATER SMART

The improvements Include:

- 66" Transmission Main / Línea de Transmisión Principal de 66"
- 48" Transmission Main / Línea de Transmisión de 48 pulgadas
- 24" Street-Booster Pump Station / Estación de Bomba Booster de 24 pulgadas
- 24" Street-Booster Pump Station / Estación de Bomba Booster de 24 pulgadas

Programa de Construcción

DISEÑO CONSTRUCCIÓN

2019 2020 2021 2022

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Public Outreach Summary

- ▶ 932 Invitations mailed for Public Meeting
- ▶ 932 door hangers hung for Public Meeting
- ▶ Approximately 350 attendees at Public Meeting
- ▶ 5 visits to faith-based institutions
- ▶ 6 meetings with Madison Heights Elementary, Mercury Mine Elementary and Paradise Valley School District

INVESTING IN OUR WATER FUTURE
City of Phoenix
YOU'RE INVITED: PUBLIC MEETING

City of Phoenix | **DROUGHT PIPELINE PROJECT**

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The City of Phoenix Water Services Department is designing additional infrastructure to continue its mission of providing a reliable water supply to our 1.7 million customers.

As part of the City's preparation for resiliency in a hotter and drier future, the improvements will provide more flexibility to move Salt and Verde River water supplies to areas of the city that are currently entirely dependent on Colorado River water.


Project 1 (Phases 1 & 2)

PHASE 1:

- 48" WATERLINE
Construction Schedule: January 2020 - Fall 2020
- 66" WATERLINE
Construction Schedule: August 2020 - Summer 2021

PHASE 2

- 66" WATERLINE IN PHOENIX MOUNTAIN PRESERVE (for work in the preserve south of Dreamy Draw Drive)
Construction Schedule: February 2021 - Fall 2021
- 66" WATERLINE IN PHOENIX MOUNTAIN PRESERVE (for work in the preserve north of Dreamy Draw Drive)
Construction Schedule: February 2021 - Spring 2022



CITY OF PHOENIX WATER SERVICES DEPARTMENT
QUALITY. RELIABILITY. VALUE.

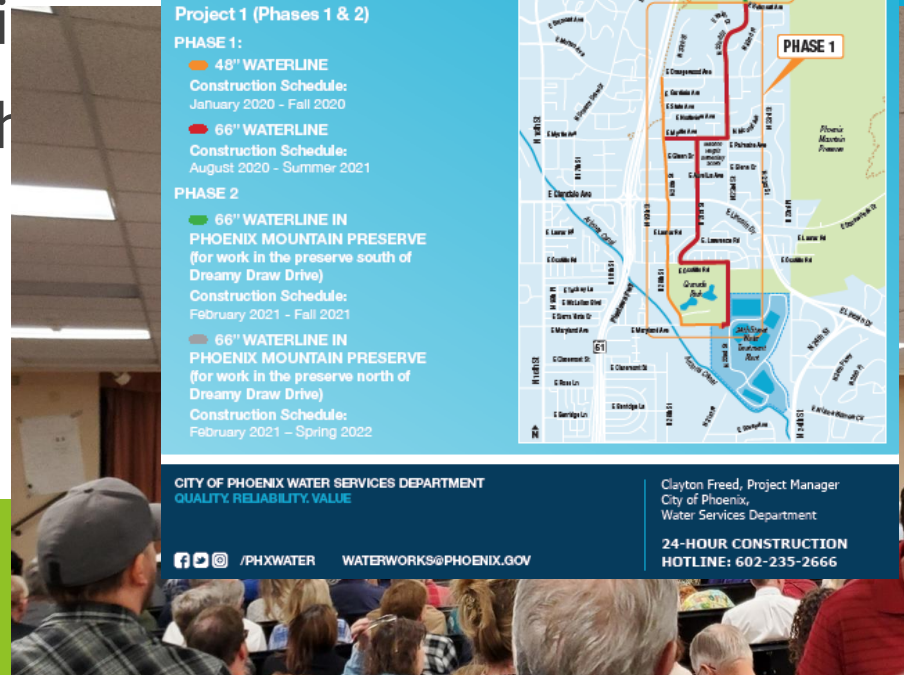
Clayton Freed, Project Manager
City of Phoenix,
Water Services Department

24-HOUR CONSTRUCTION HOTLINE: 602-235-2666

[f](#) [t](#) [@](#) /PHXWATER WATERWORKS@PHOENIX.GOV



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Ongoing Public Outreach

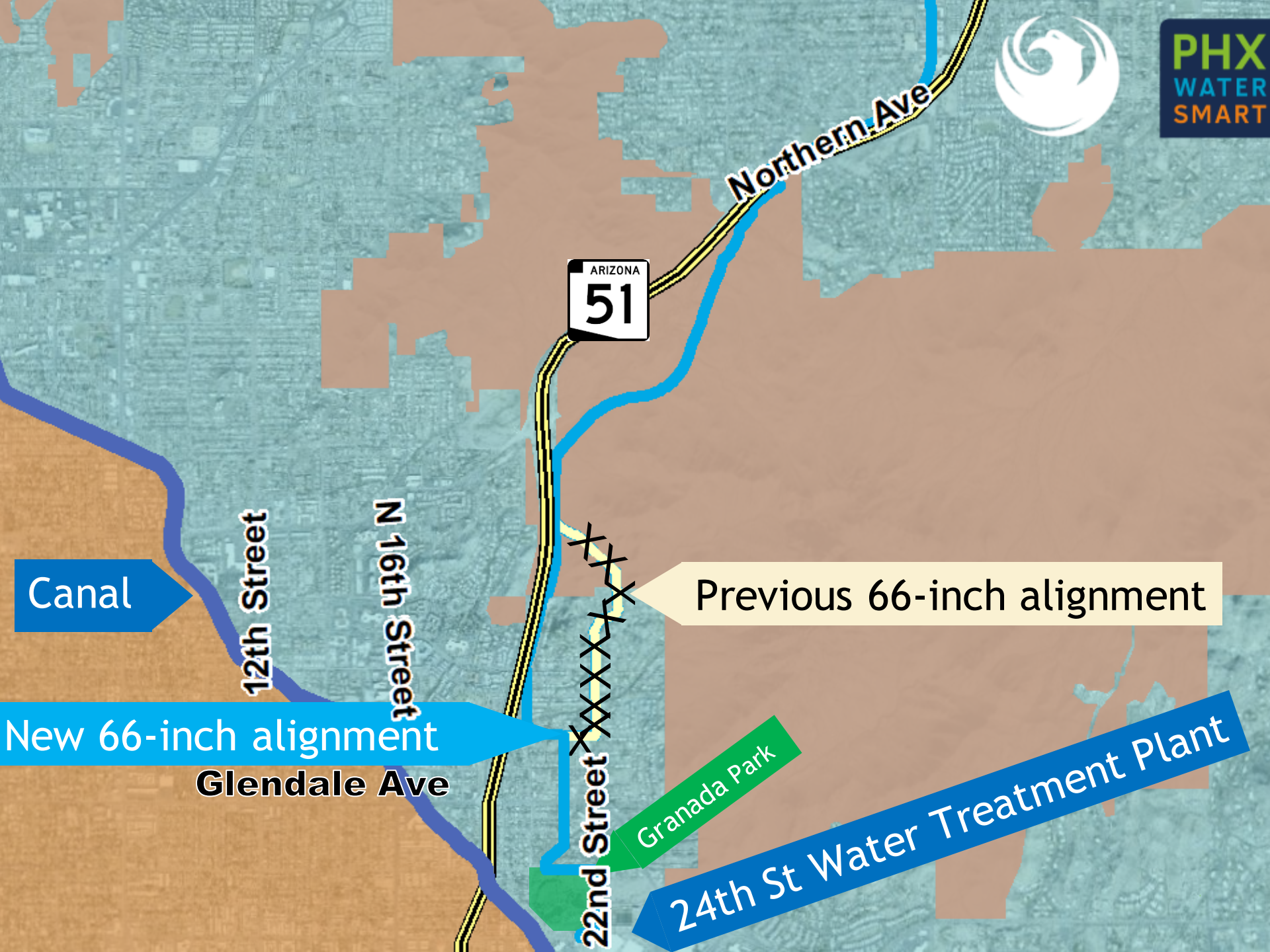
- ▶ January 23, 2020: Parks and Recreation Board Project Update
- ▶ January 28, 2020: North Phoenix Chamber of Commerce
- ▶ Mailers to Residents
- ▶ Door Hangers to Residents
- ▶ February 4, 2020: Open House
- ▶ Canvass the Neighborhood
- ▶ March 16, 2020: PSPMPPC Project Update
- ▶ Street Signage with Contact Information
- ▶ Construction Notices
- ▶ Email Updates
- ▶ Website: phoenix.gov/droughtpipeline



Current Status

Pending Agreement to do ADOT Option





Northern Ave



12th Street

N 16th Street

Canal

Previous 66-inch alignment

New 66-inch alignment
Glendale Ave

22nd Street

Granada Park

24th St Water Treatment Plant

Mountain Preserve and Adjacent Neighborhood Construction Timeline

- ▶ 48” Replacement Pipe:
 - ▶ March 2020 - Fall 2020

- ▶ New 66” Pipe:
 - ▶ Neighborhood
 - ▶ Fall 2020 - Summer 2021
 - ▶ Preserve
 - ▶ January 2021 - Spring 2022



Neighborhood Coordination

We will maintain access for:

- ▶ Residential Users
 - ▶ Bicycle/Pedestrian/Vehicle
 - ▶ School drop-off/pickup
 - ▶ School Bus
- ▶ Commercial Users
 - ▶ Trash pickup
 - ▶ Mail/Deliveries
- ▶ Emergency Responders
- ▶ Granada Park



CONTACT US:

Project Website
phoenix.gov/droughtpipeline

Project Hotline 602-235-2666

waterworks@phoenix.gov

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In Summary:

- Both pipeline projects are integral to the health and welfare of Phoenix residents
- The City has acted within its authority
- Staff respectfully requests the Land Use and Livability Subcommittee deny the Citizen Petitions related to the Phoenix Water Drought Pipeline Project and recommend the Water Services Department continue community engagement and outreach throughout the project

