

# GRP PROGRAM CONSTRUCTION PROGRESS



**GRP Review  
Committee  
Meeting  
October 27, 2014**



**SJRA Board  
of Directors  
Meeting  
October 30, 2014**

# SURFACE WATER FACILITY CONSTRUCTION ADMINISTRATION

## Project Data Thru 9/30/2014

Contracted Amount:	\$190,704,740.00
Change Orders:	\$ 0.00
Estimate to Complete:	\$190,704,740.00
Amount Invoiced:	\$146,466,565.00
Percent Complete:	77%
Completion Date:	June 2015

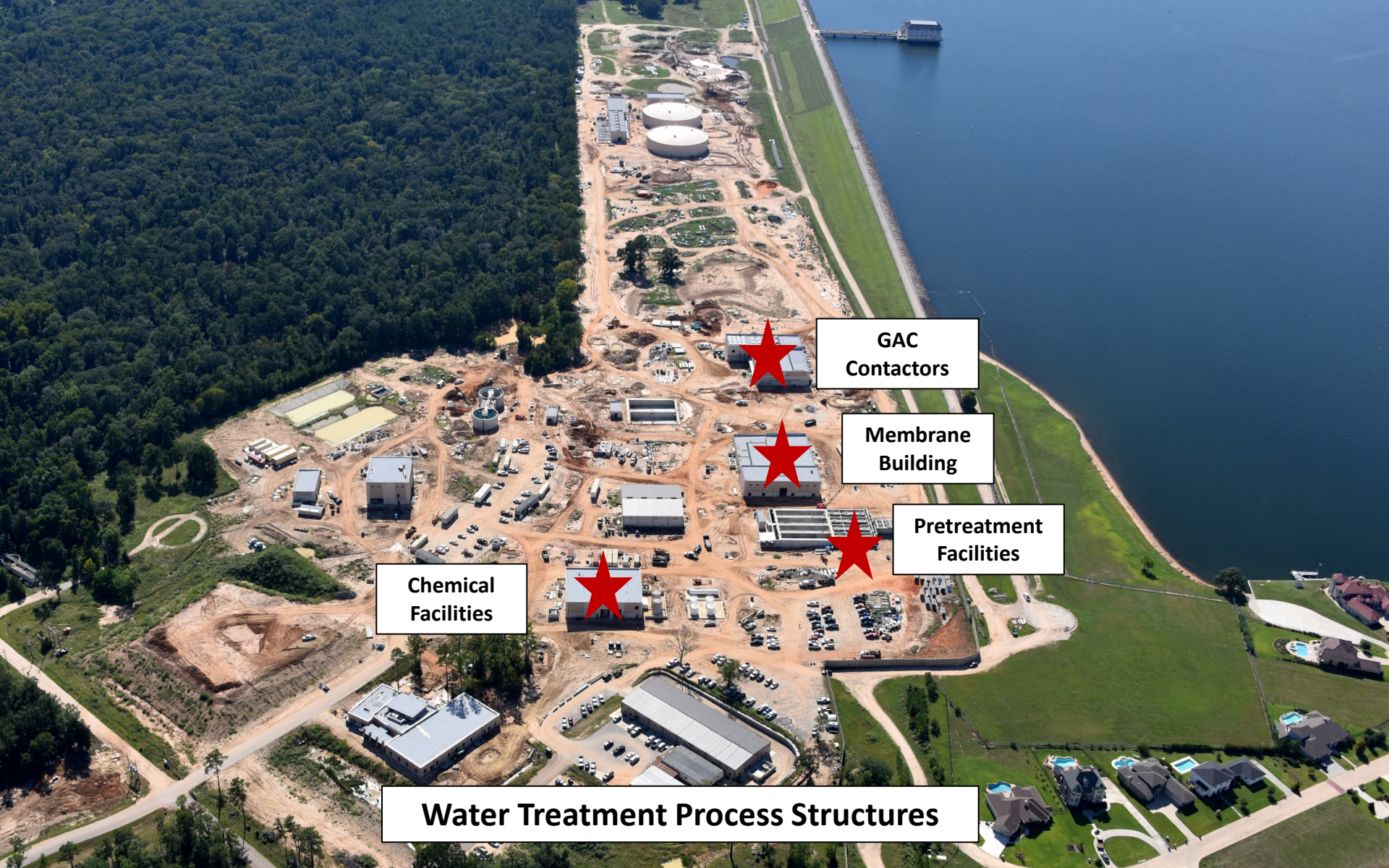


An aerial photograph of a large-scale construction project for a water treatment facility. The site is situated along a body of water, with a long concrete dam or intake structure extending from the top right towards the center. The construction area is characterized by extensive dirt roads, numerous concrete basins and tanks in various stages of completion, and several large industrial buildings with grey roofs. Some areas are still under excavation or earthmoving. To the left of the construction site is a dense forest. To the right, across a grassy area, is a residential neighborhood with houses and swimming pools. A red star icon is placed on the water's surface near the dam structure, pointing to the raw water intake and pump station.

**Raw Water Intake  
and Pump Station**



Raw Water Intake & Pump Station – Pump motor installation



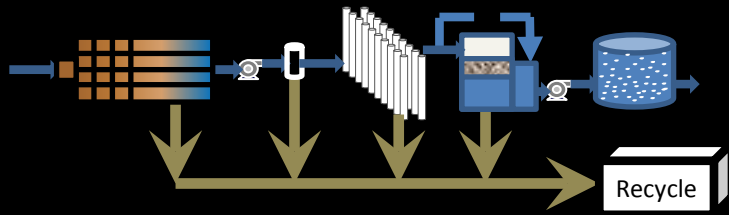
**GAC  
Contactors**

**Membrane  
Building**

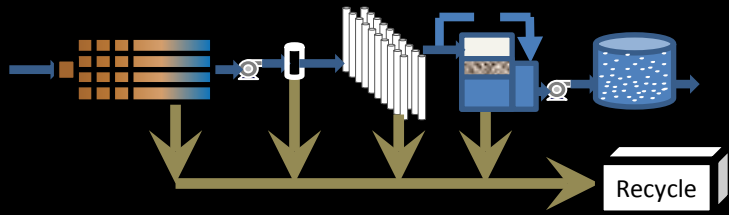
**Pretreatment  
Facilities**

**Chemical  
Facilities**

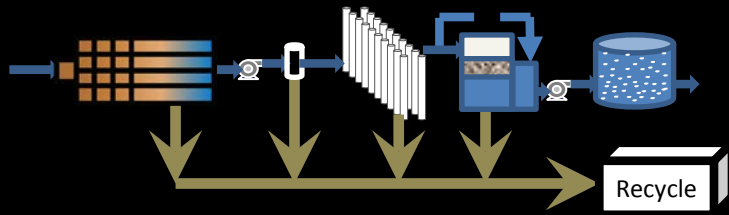
**Water Treatment Process Structures**



Pretreatment – Hoseless Sludge Collection System installation



Membrane Building – Chemical storage tank and feed pumps



Granulated Activated Carbon Building – Piping and instrumentation installation

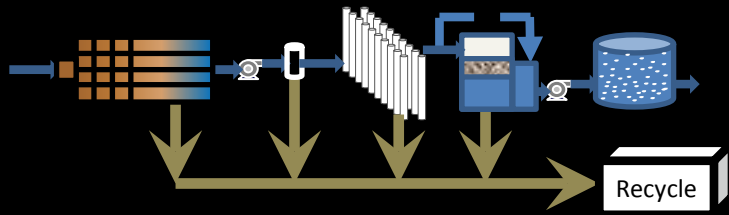


**High Service Pump Station,  
GST's, and Blower Building**

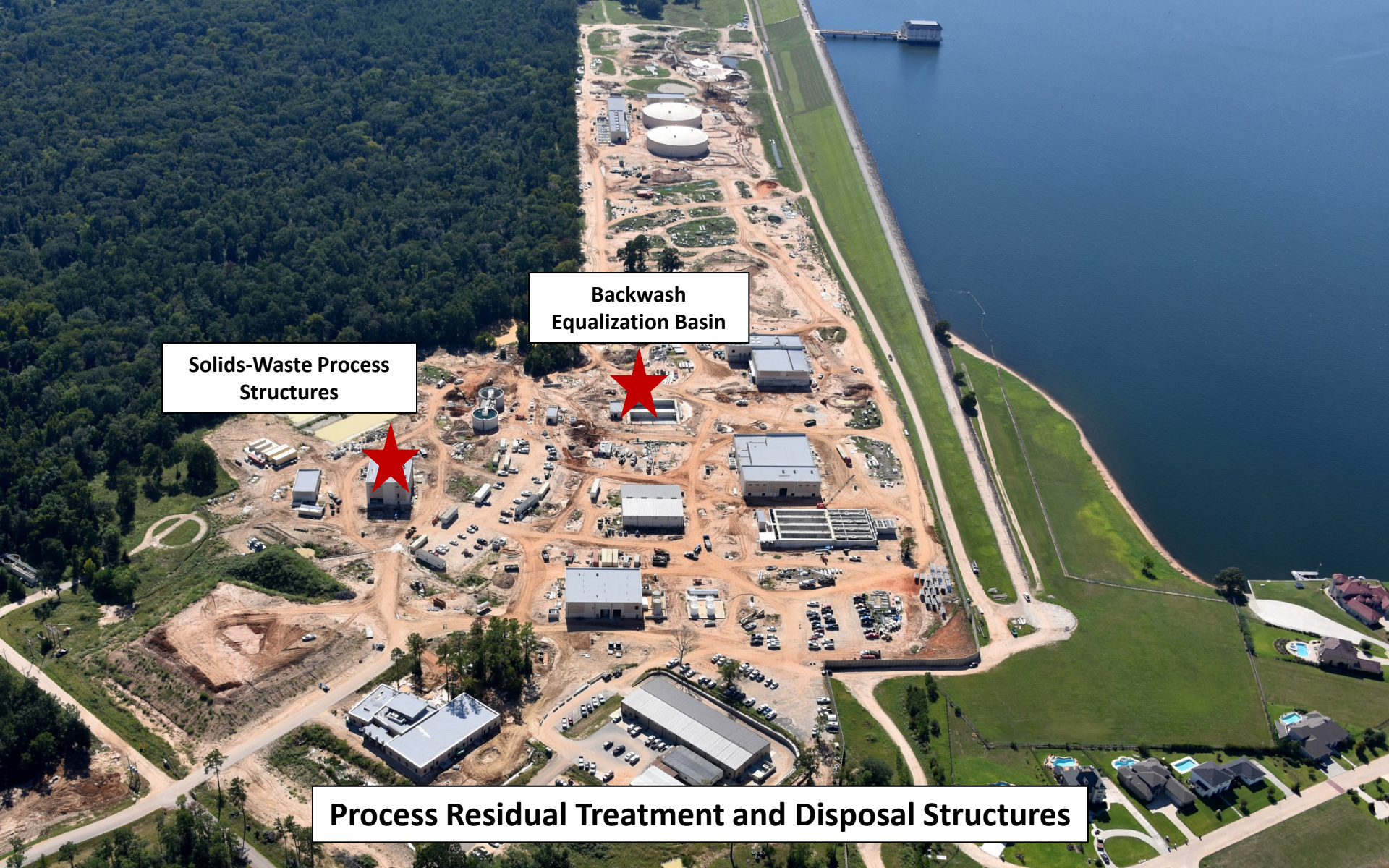


**Finished Water Process Structures**





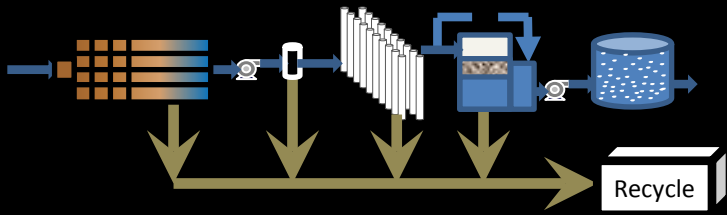
High Service Pump Station – Pump and motor assemblies



**Solids-Waste Process Structures**

**Backwash Equalization Basin**

**Process Residual Treatment and Disposal Structures**



Sludge Thickeners – Stilling well and catwalk installation



**Electrical  
Facilities**

**Operations  
Building**

**Operational Structures**



Operations Building – Kitchen area and entry logo

# SURFACE WATER FACILITY CONSTRUCTION PROGRESS

## Questions?







# TRANSMISSION LINE SYSTEM CONSTRUCTION ADMINISTRATION

## Project Data Thru 9/30/2014

Original Contract Amount: \$ 146,610,000.60

Change Orders: \$ 2,391,349.69

Total Contract Amount: \$ 149,001,350.29

Amount Invoiced: \$118,396,212.55

Percent Complete: 79%

Estimated Completion Date: May 2015



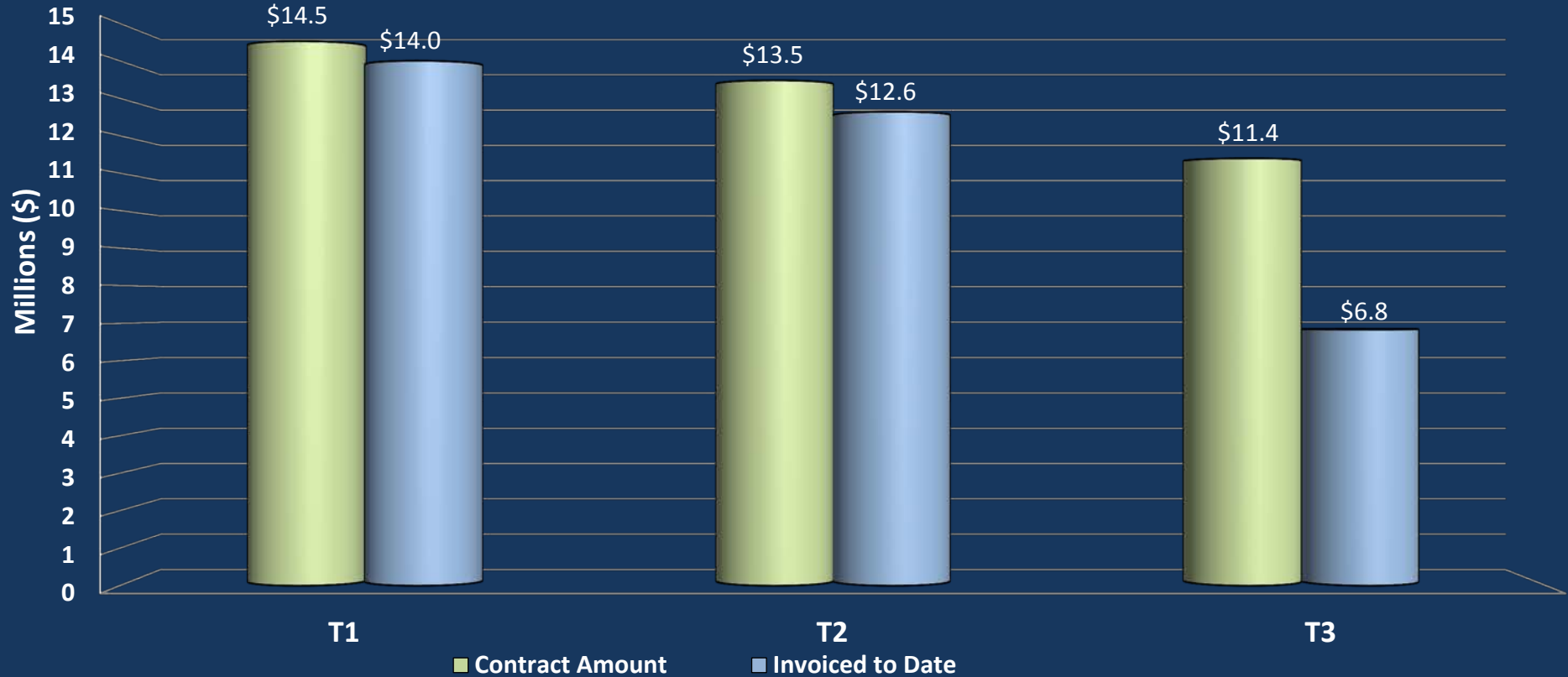
# TRANSMISSION LINE SYSTEM CONSTRUCTION ADMINISTRATION

## Project Data Thru 9/30/2014

Average Daily workforce:	219 workers
Piping installed to date:	43.8 miles
Average cost per day:	\$162,758
Percentage of pipe installed:	85%

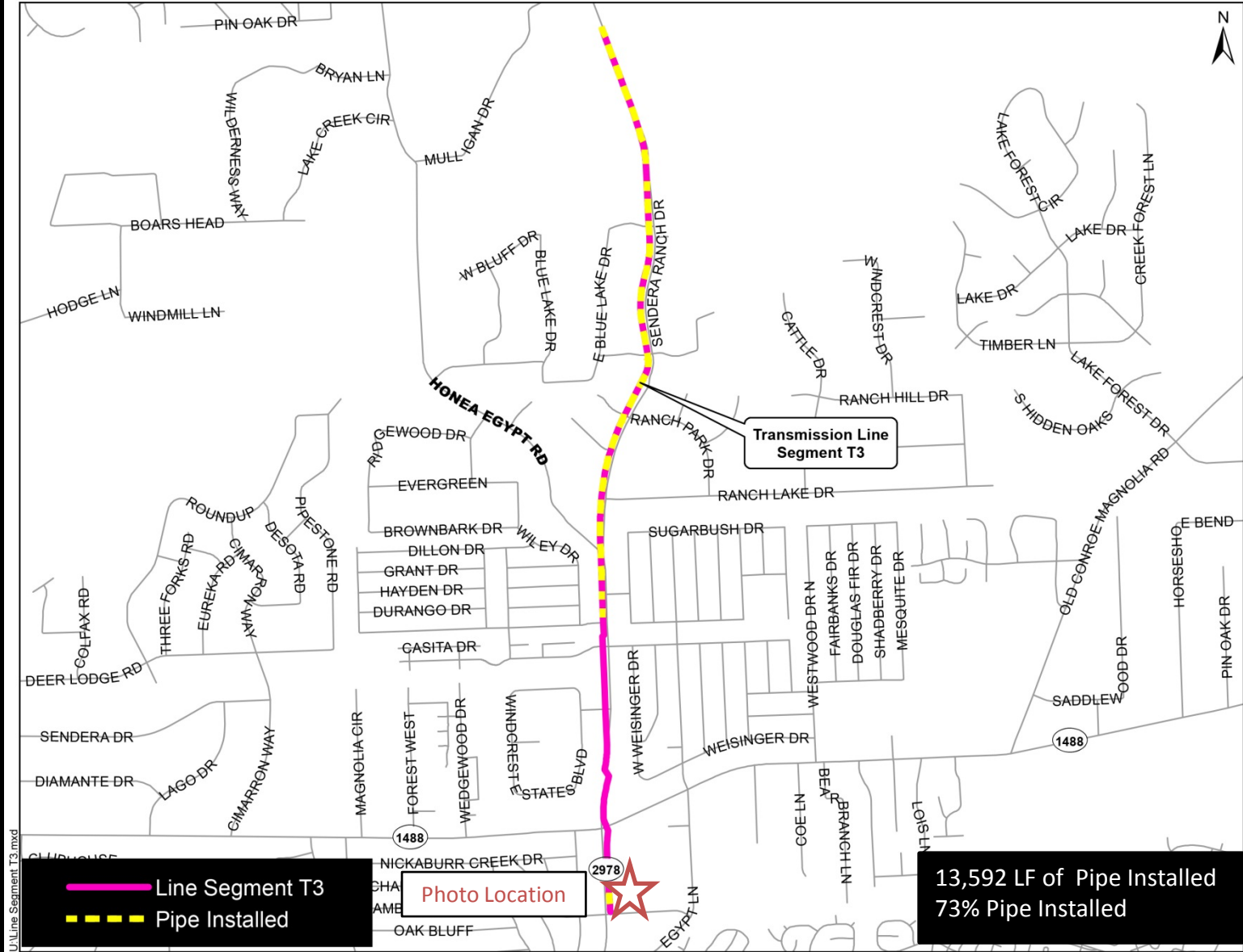


# SURFACE WATER TRANSMISSION SYSTEM "T" ROUTES - PROJECT DATA



# SURFACE WATER TRANSMISSION SYSTEM "T" ROUTES - PROJECT STATUS

Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
T1	96%	67%		
T2	92%	43%		
T3	60%			



**Transmission Line Segment T3**

**Photo Location**

— Line Segment T3  
 - - - Pipe Installed

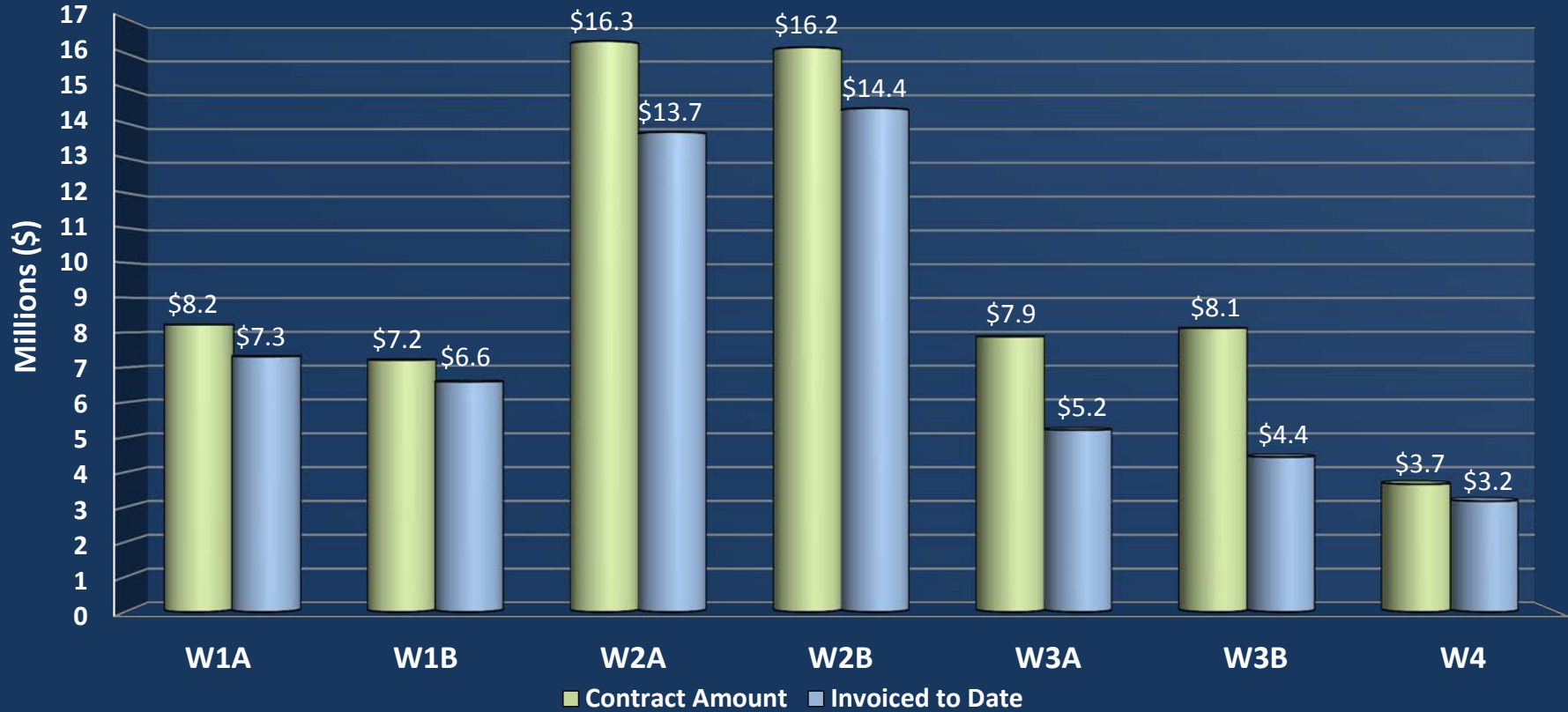
**13,592 LF of Pipe Installed**  
**73% Pipe Installed**

U:\Line Segment T3.mxd



54-inch open-cut pipe installation along FM 2978 south of FM 1488

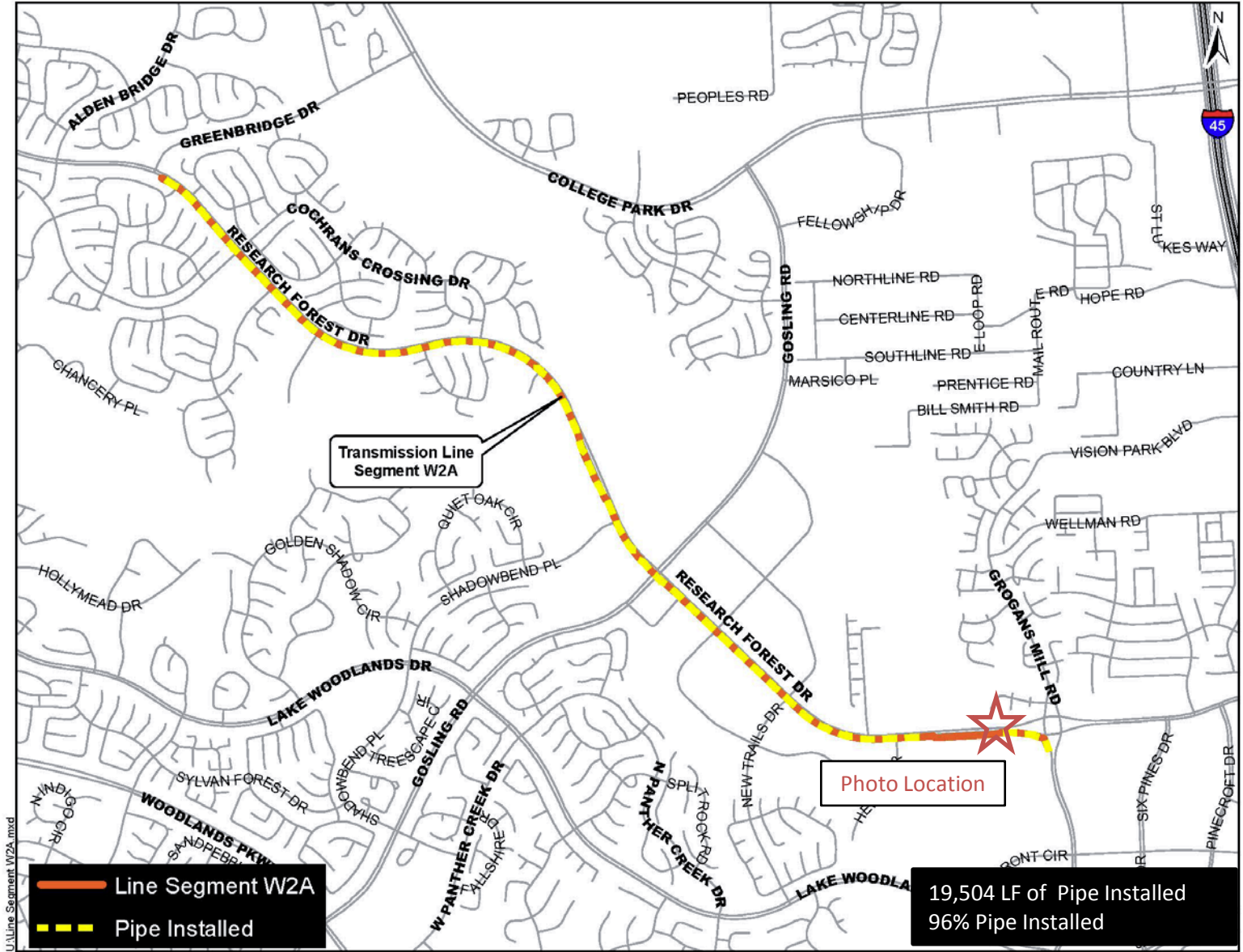
# SURFACE WATER TRANSMISSION SYSTEM "W" ROUTES - PROJECT DATA





# SURFACE WATER TRANSMISSION SYSTEM "W" ROUTES - PROJECT STATUS

Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
W1A	89%			
W1B	91%	83%		
W2A	84%			
W2B	89%			
W3A	66%			
W3B	55%			
W4	87%			





U:\Line Segment W2A.mxd

-  Line Segment W2A
-  Pipe Installed

19,504 LF of Pipe Installed  
96% Pipe Installed



30-inch pipe and fiber optic conduit installation along Research Forest Dr.

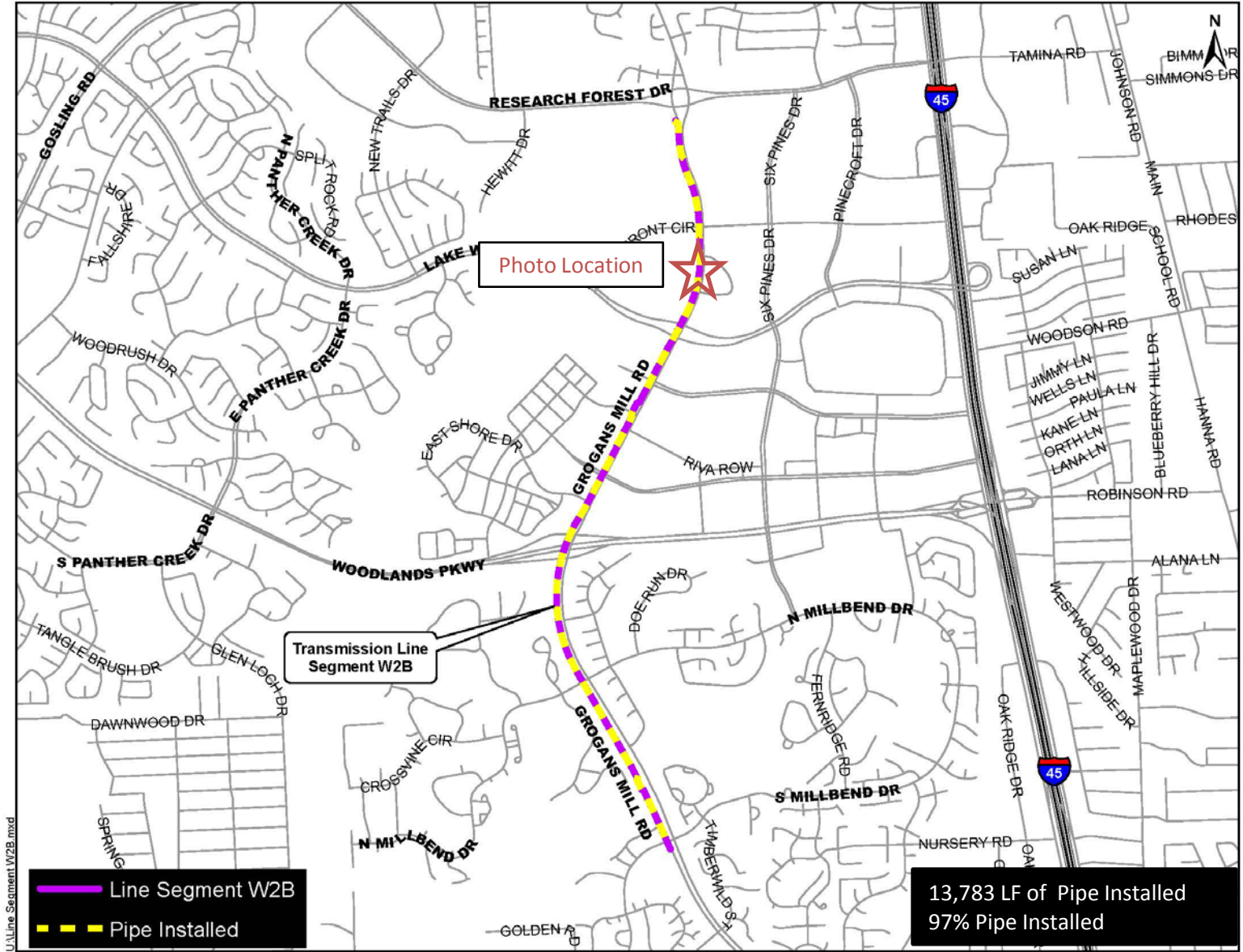


Photo Location

Transmission Line Segment W2B

Line Segment W2B  
 Pipe Installed

13,783 LF of Pipe Installed  
 97% Pipe Installed



Asphalt shoulder restoration along Grogans Mill Road at Evergreen Circle

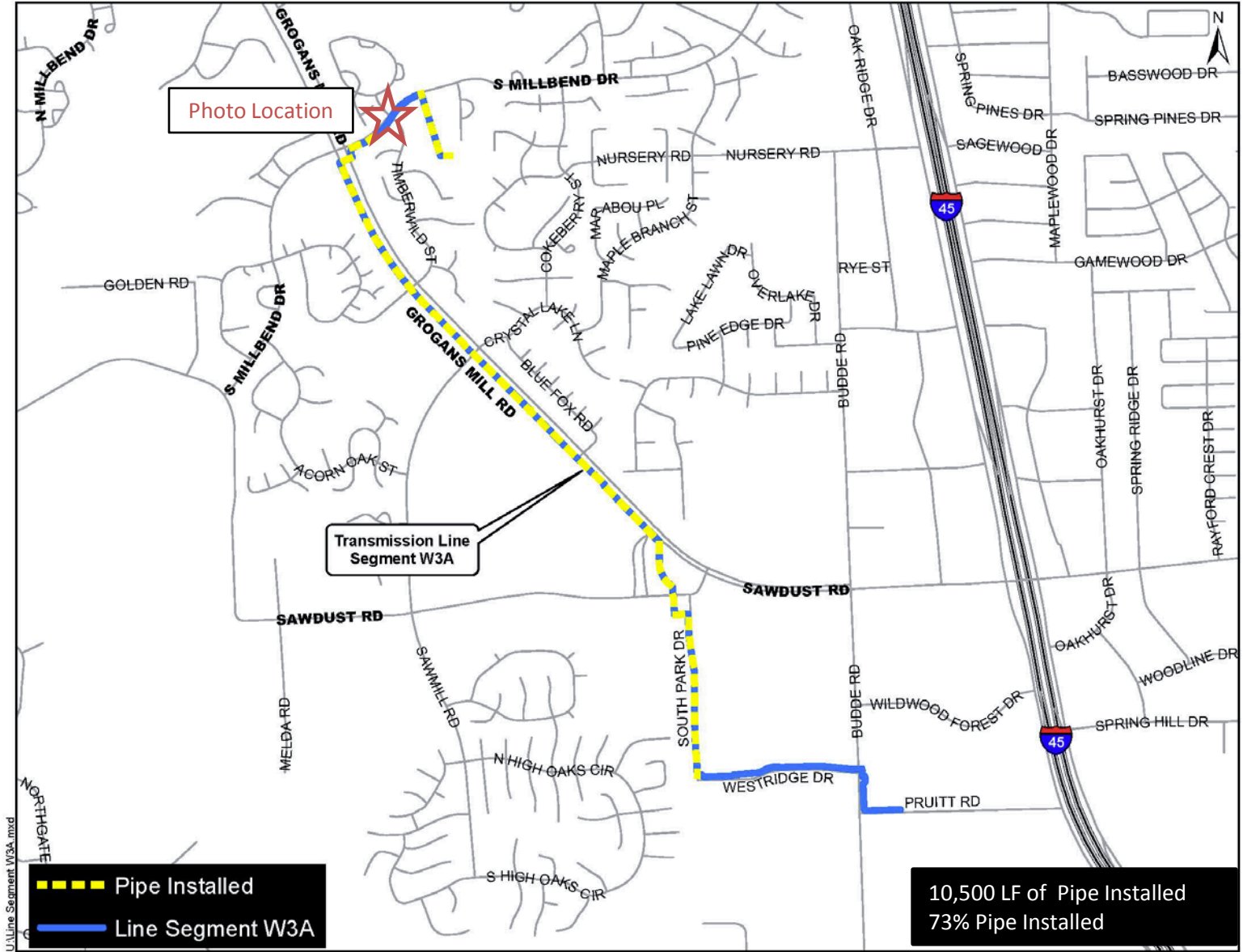


Photo Location

Transmission Line Segment W3A

- Pipe Installed
- Line Segment W3A

10,500 LF of Pipe Installed  
73% Pipe Installed



24-inch open-cut pipe installation along South Millbend Dr.

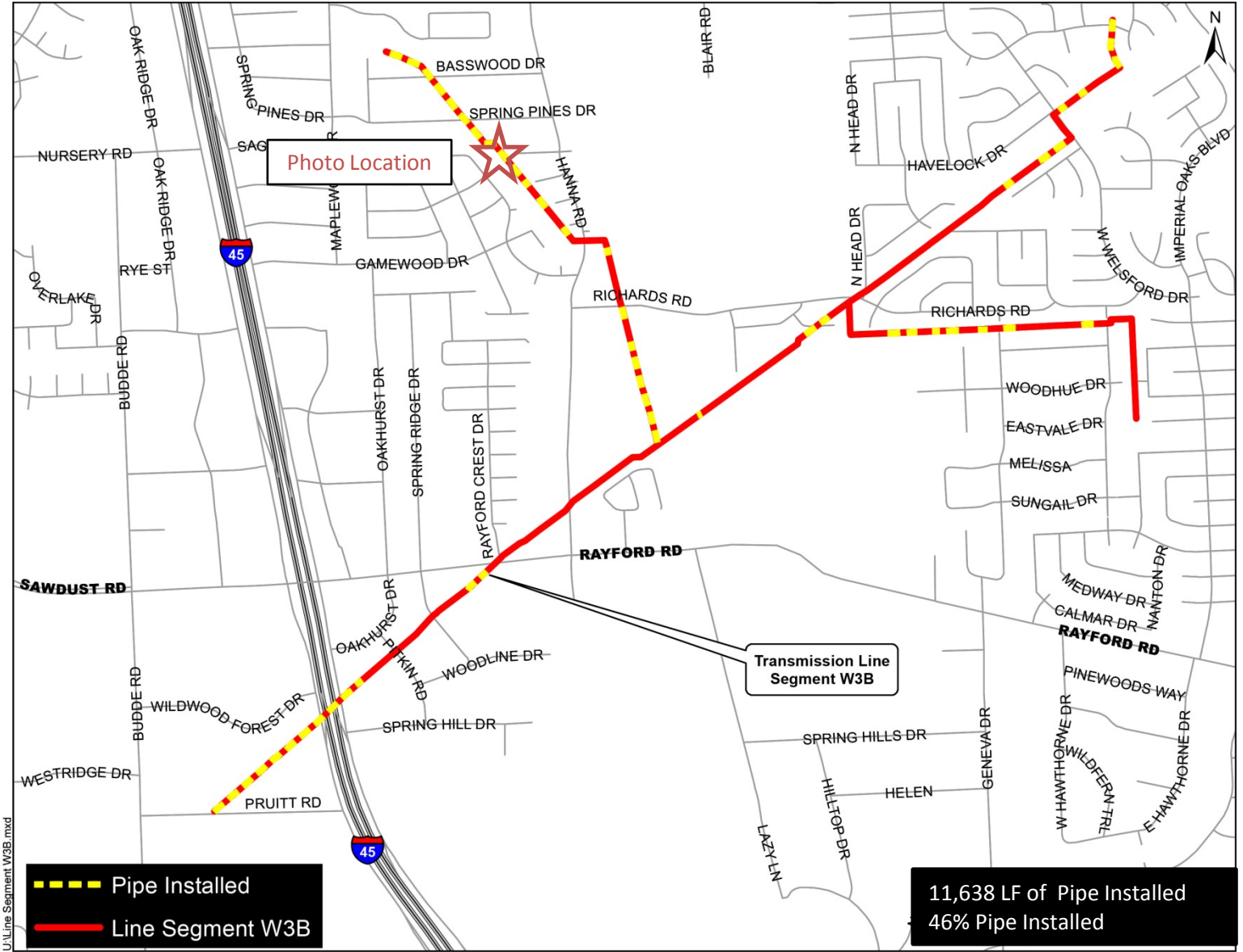


Photo Location

Transmission Line Segment W3B

- Pipe Installed
- Line Segment W3B

11,638 LF of Pipe Installed  
46% Pipe Installed



Air Vacuum Relief Valve Manhole installation

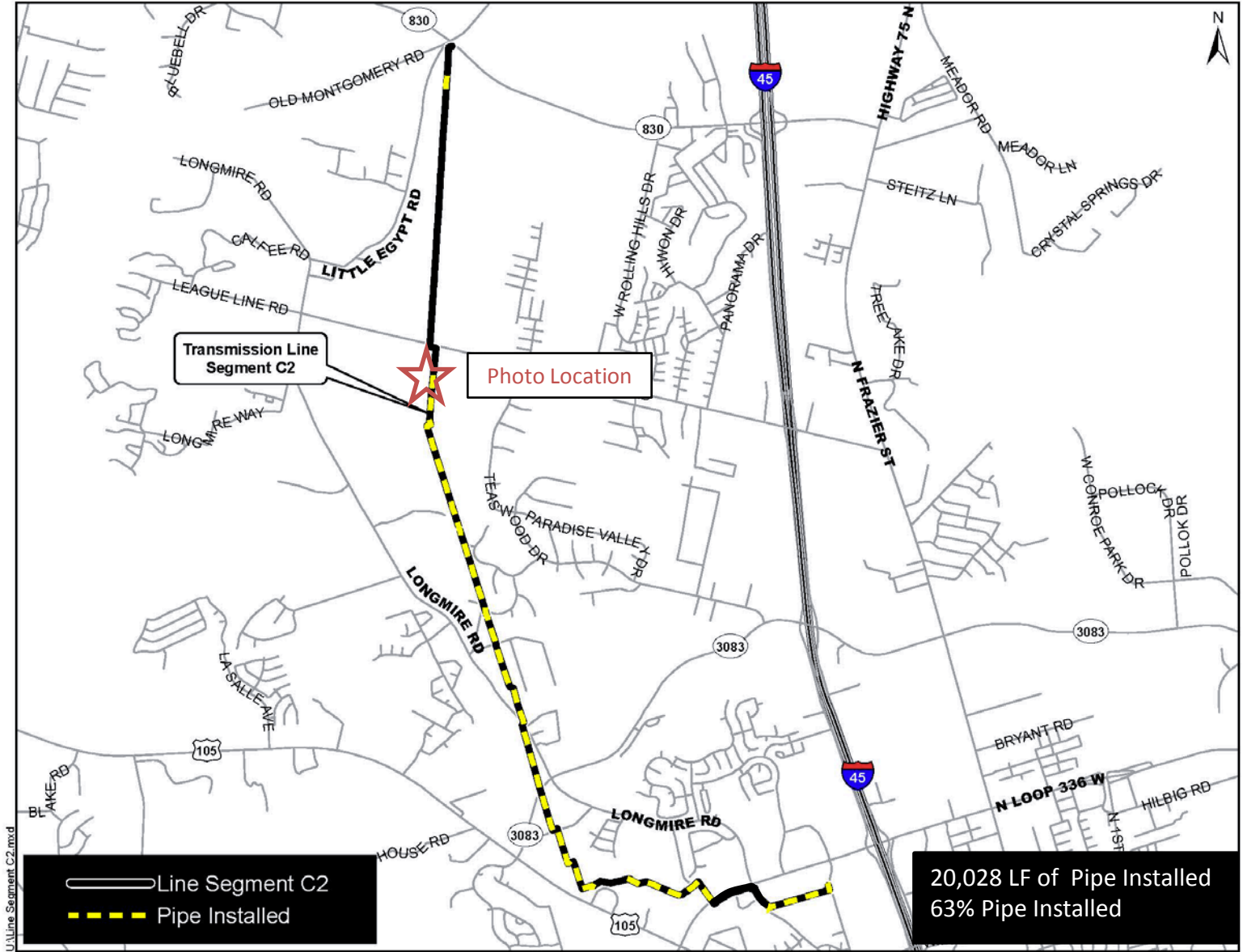


# SURFACE WATER TRANSMISSION SYSTEM "C" ROUTES - PROJECT DATA



# SURFACE WATER TRANSMISSION SYSTEM "C" ROUTES - PROJECT STATUS

Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
C1A	88%	50%		
C1B	100%	100%	✓	✓
C2	62%			
C3	80%			
C4	60%	48%		



Transmission Line Segment C2

Photo Location

— Line Segment C2  
- - - Pipe Installed

20,028 LF of Pipe Installed  
63% Pipe Installed

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36-inch open-cut pipe installation along Entergy Corridor

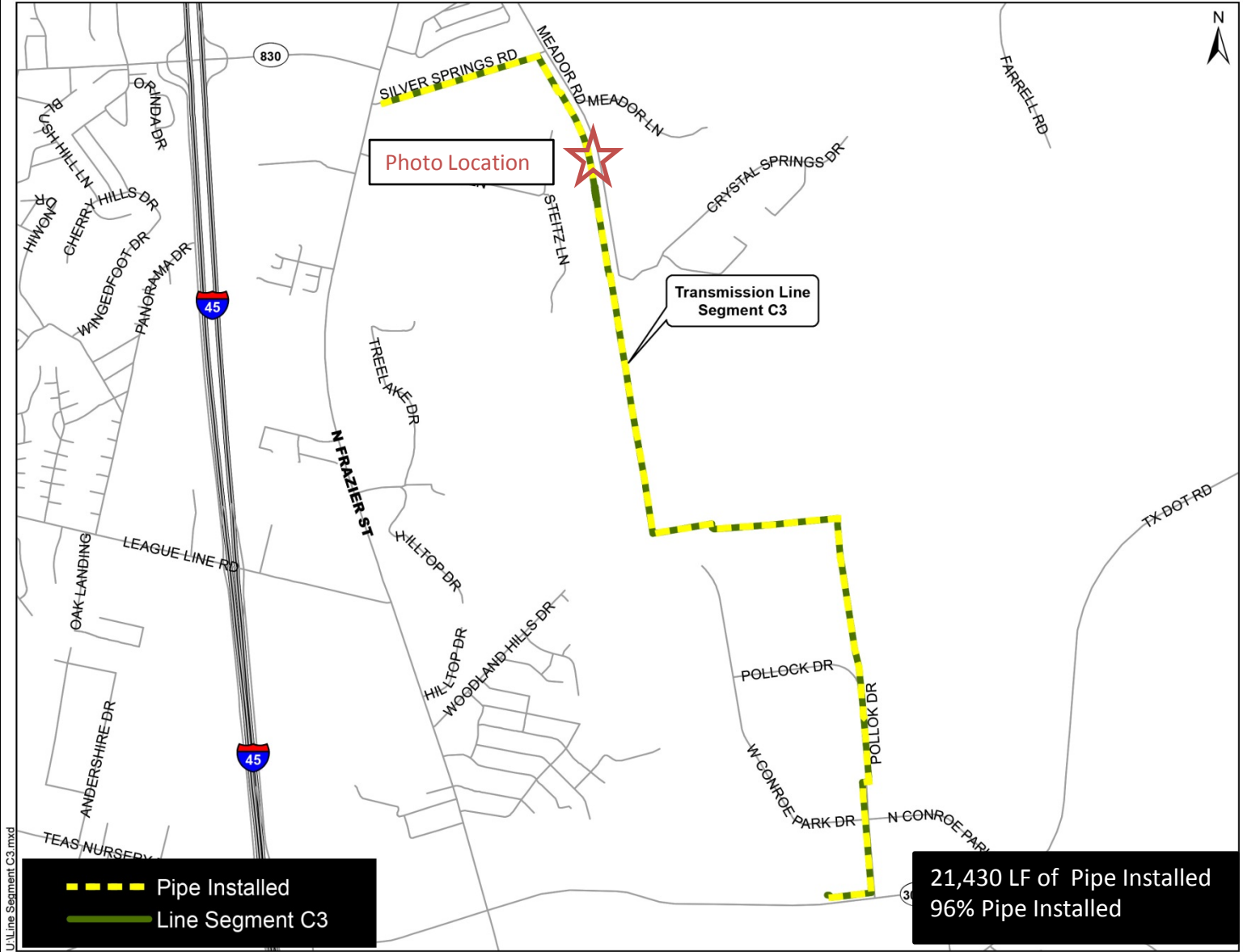


Photo Location

Transmission Line Segment C3

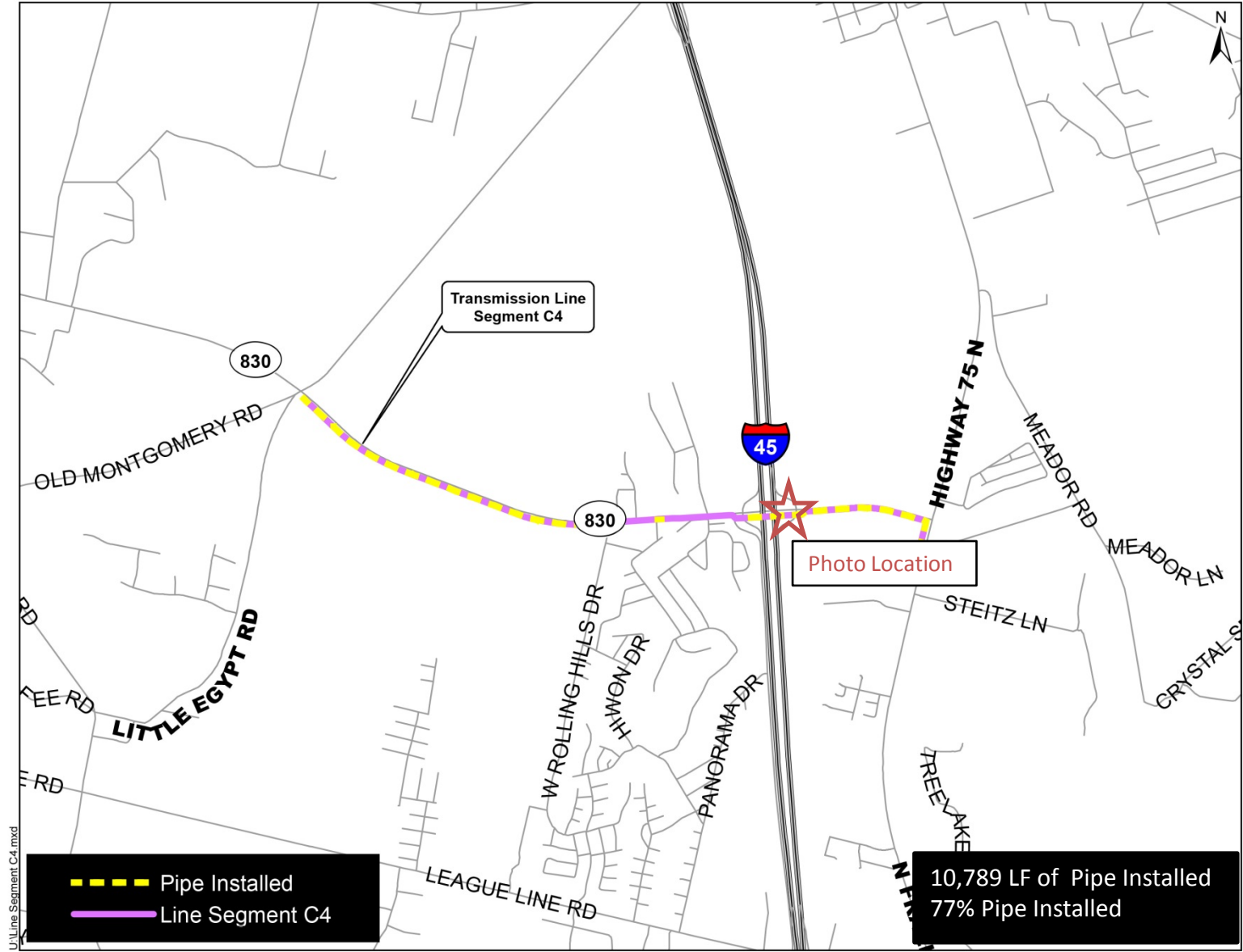
--- Pipe Installed  
— Line Segment C3

21,430 LF of Pipe Installed  
96% Pipe Installed

U:\Line Segment C3.mxd



Air Release and Vacuum Relief Valves along Girl Scout property



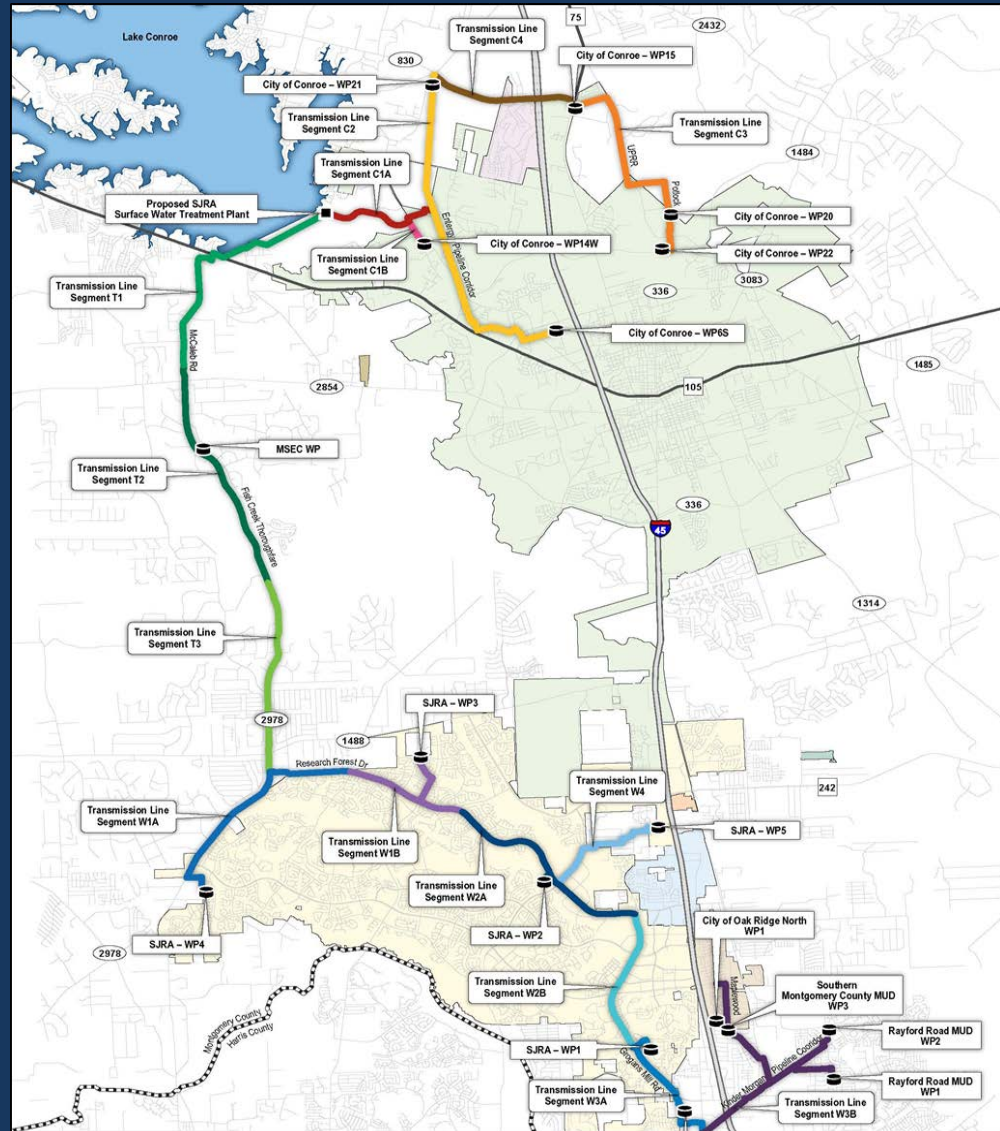
L:\Line Segment C4.mxd



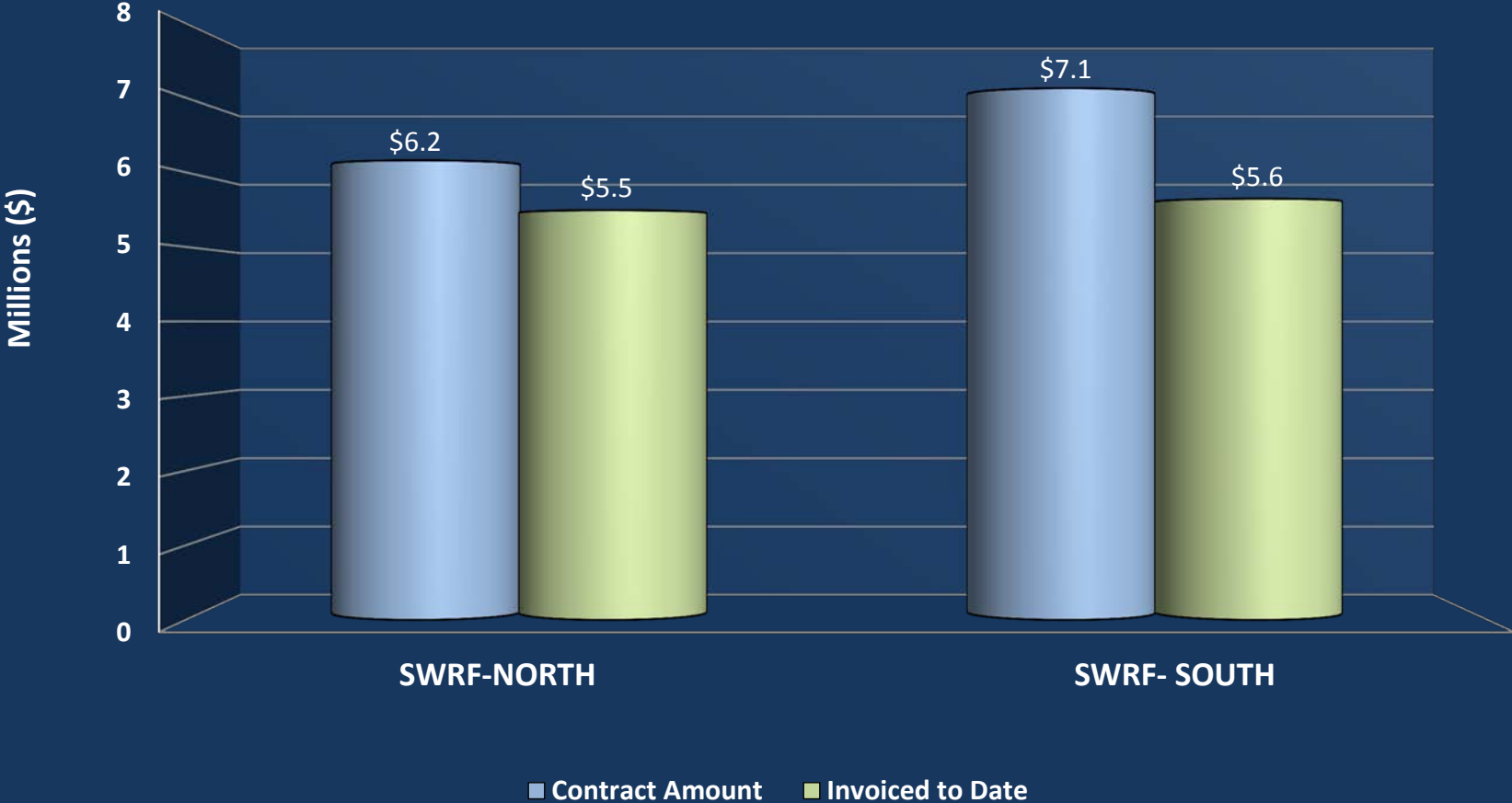
Site restoration along FM 830 at I-45

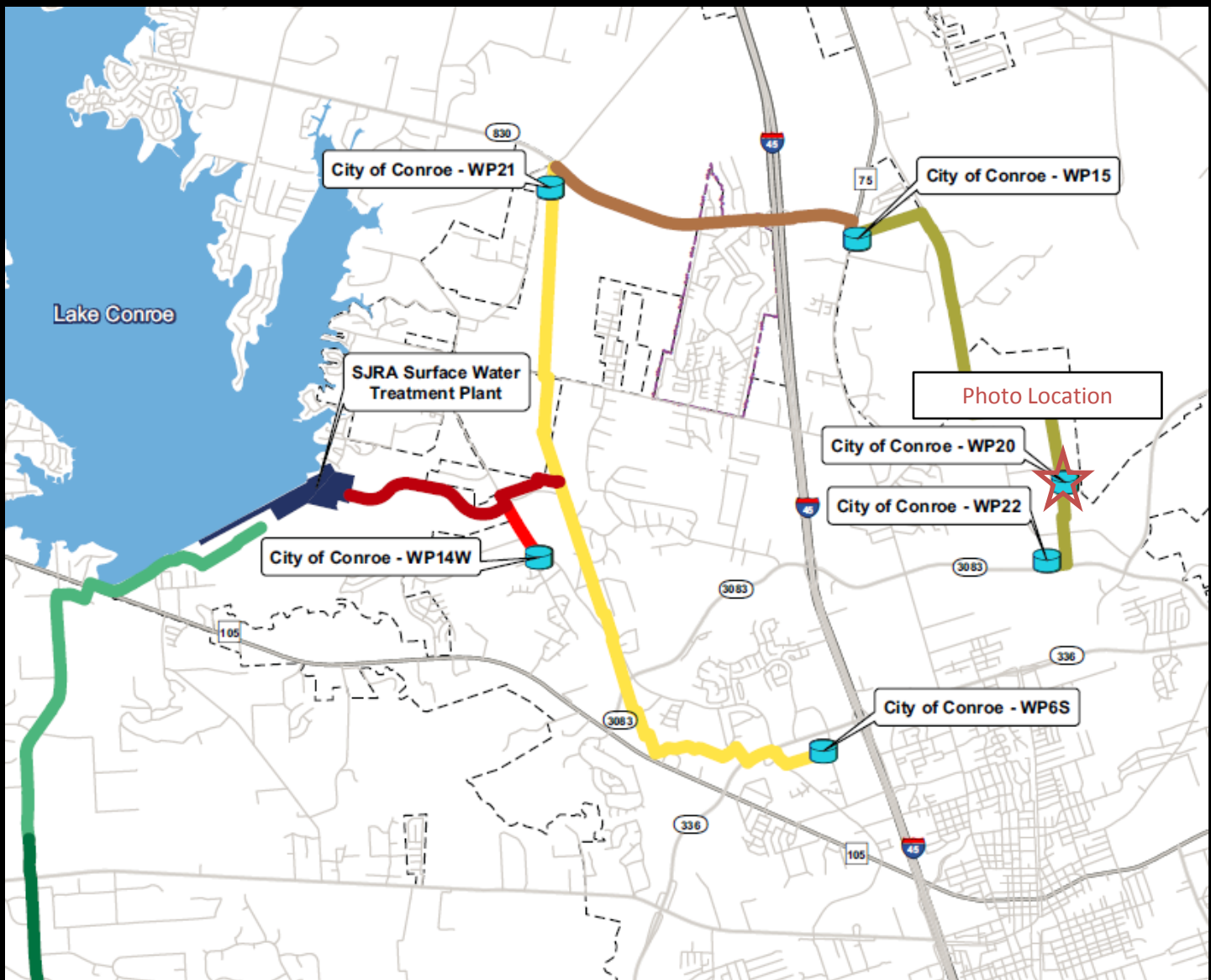


# SURFACE WATER RECEIVING FACILITIES CONSTRUCTION PROGRESS



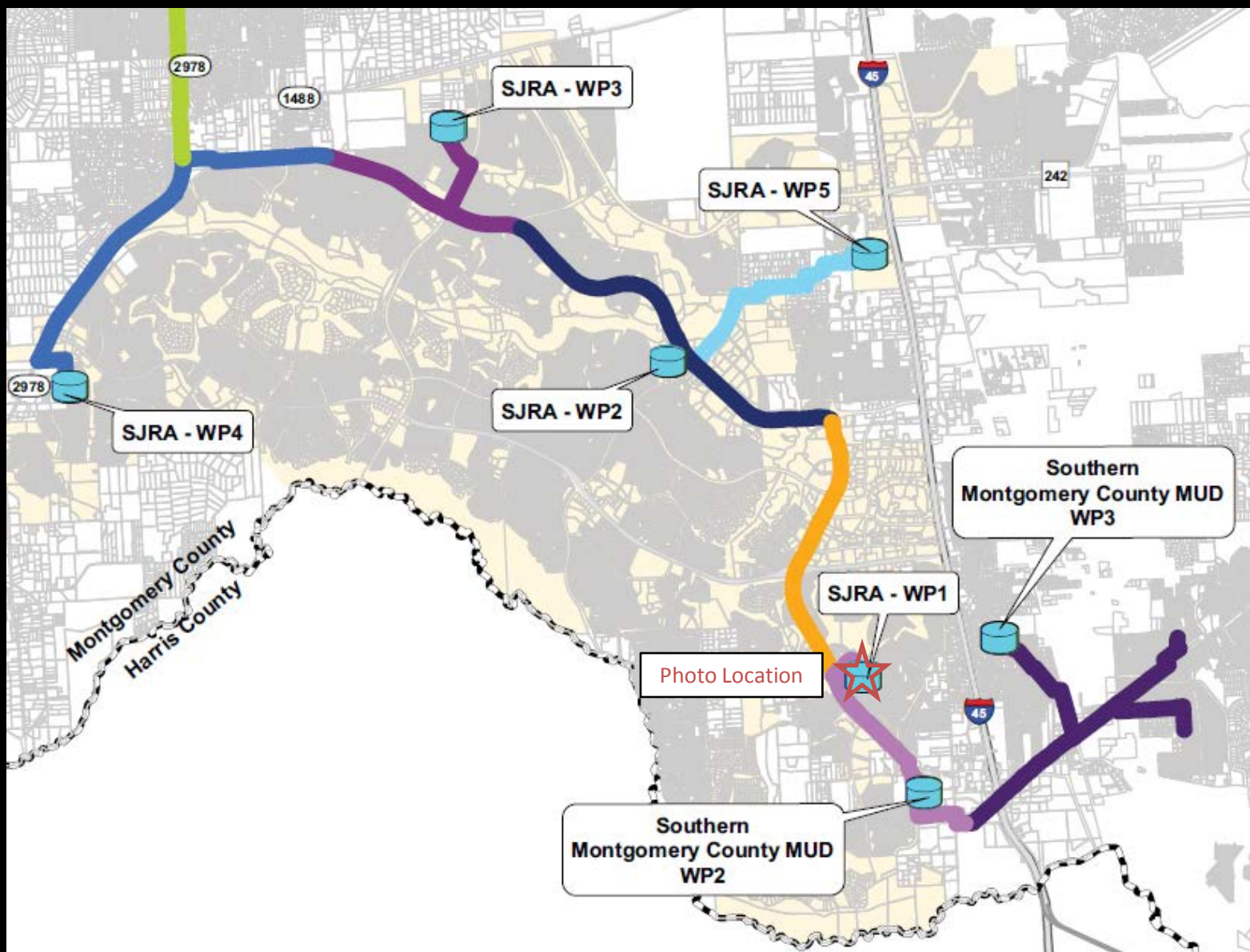
# SURFACE WATER TRANSMISSION SYSTEM RECEIVING FACILITIES - PROJECT DATA







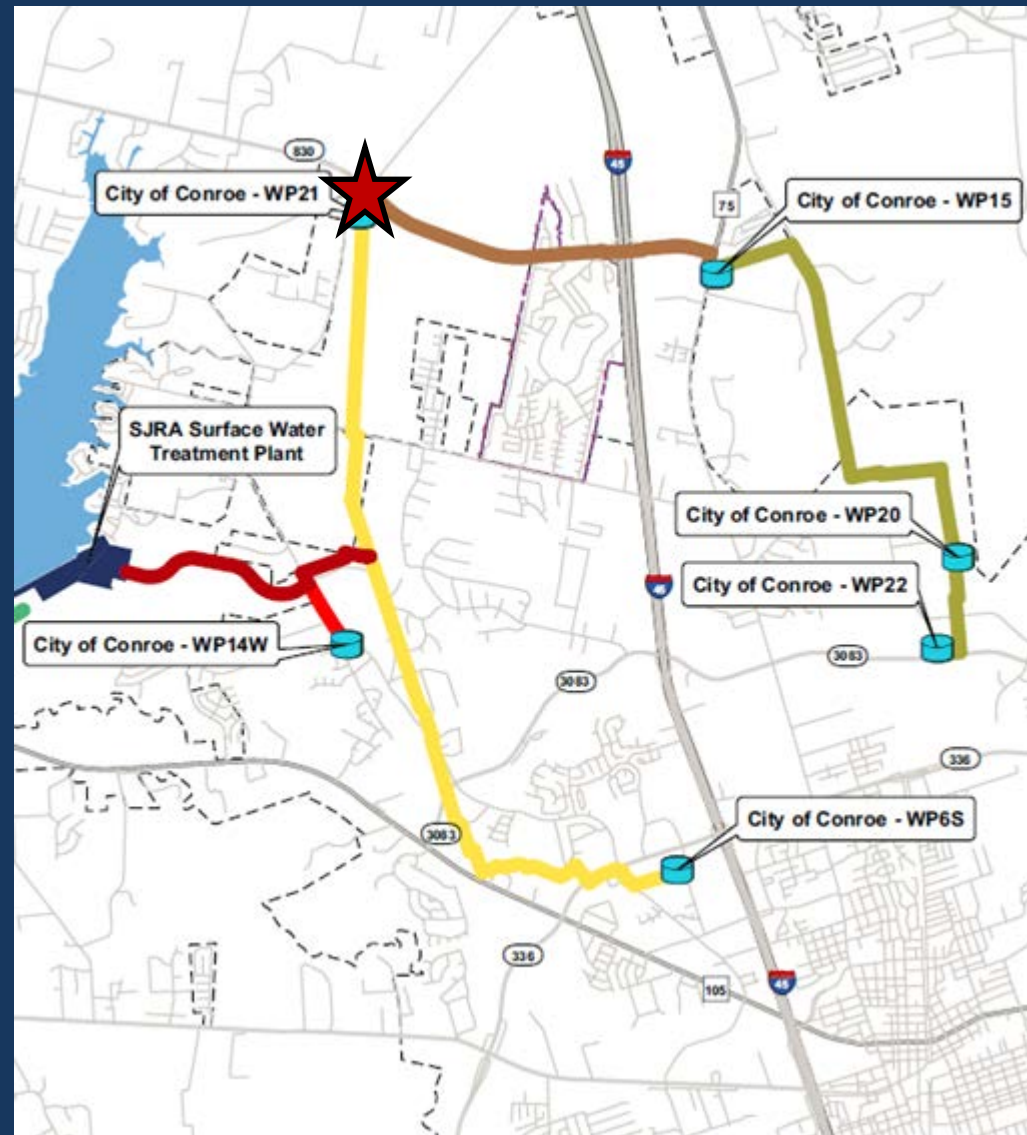
Site restoration at Conroe Water Plant No. 20



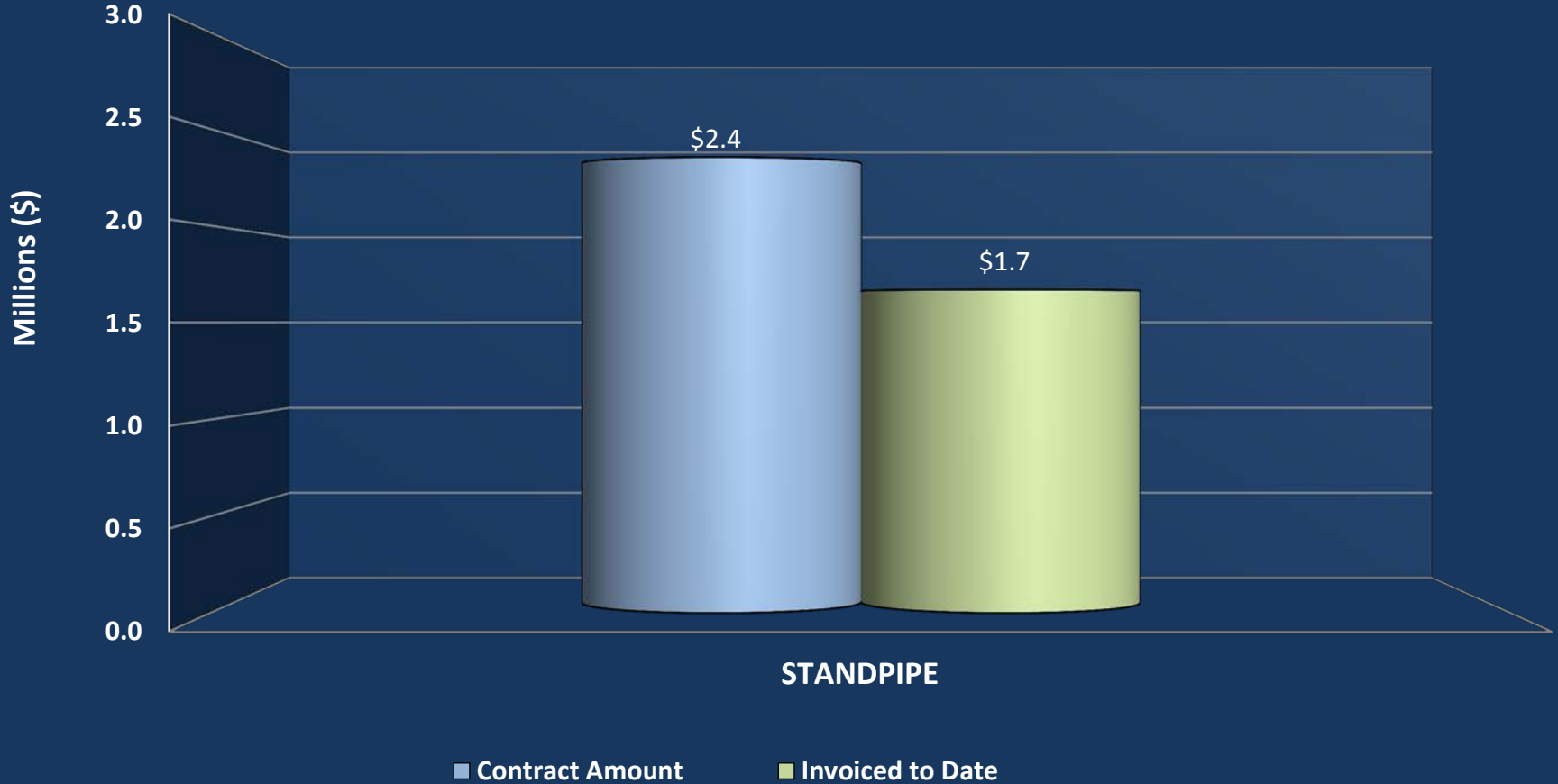


Flow Control Pressure Station at Woodlands Water Plant No. 1

# SURFACE WATER STANDPIPE CONSTRUCTION PROGRESS



# SURFACE WATER TRANSMISSION SYSTEM STANDPIPE - PROJECT DATA

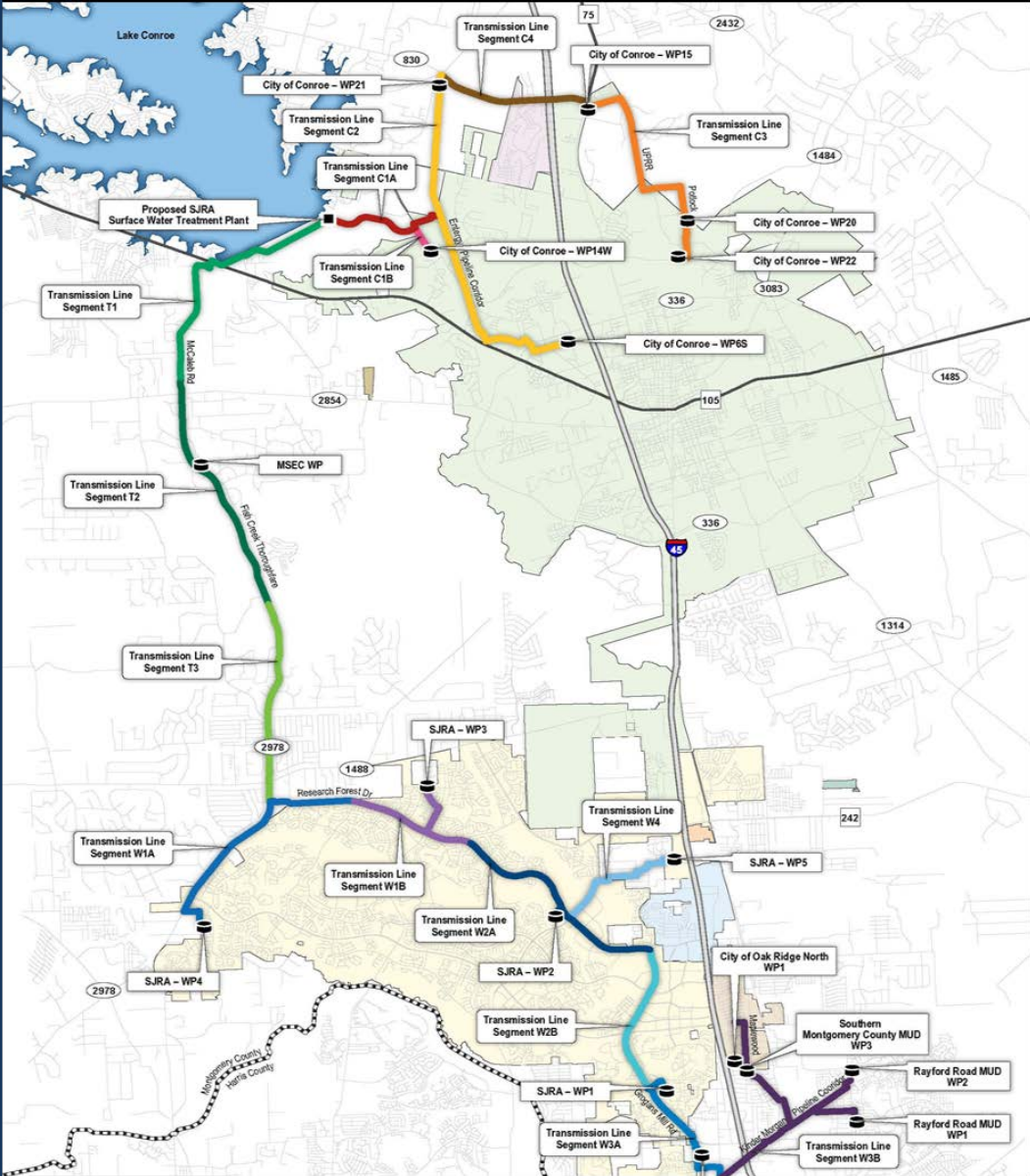




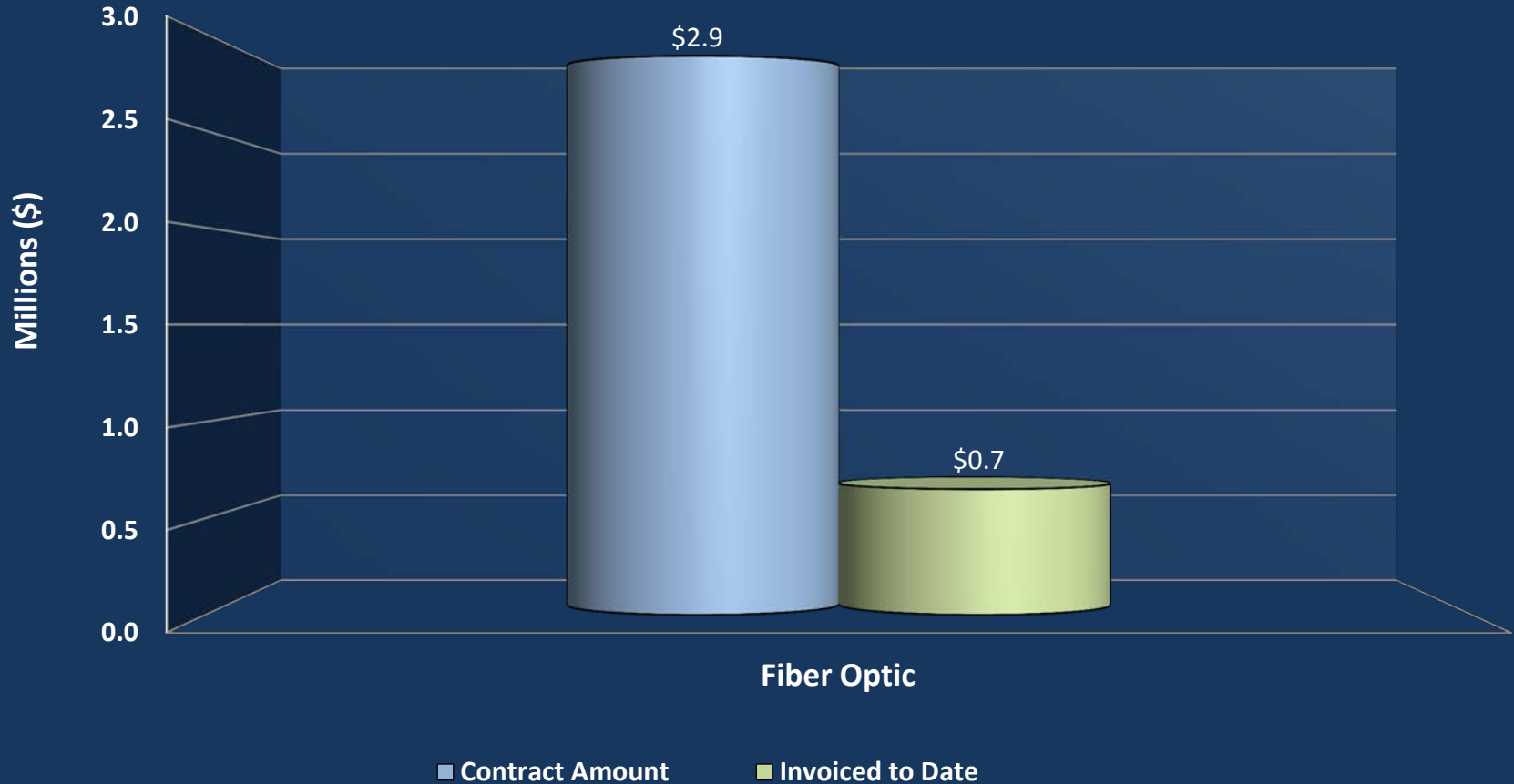


36-inch x 30-inch pipe reducer connections to Standpipe

# FIBER OPTIC COMMUNICATION CONSTRUCTION ADMINISTRATION



# SURFACE WATER TRANSMISSION SYSTEM FIBER OPTIC - PROJECT DATA



# SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

## QUESTIONS?

