

# GRP PROGRAM CONSTRUCTION PROGRESS



**GRP Review  
Committee  
Meeting  
April 21, 2014**



**SJRA Board  
of Directors  
Meeting  
April 24, 2014**

# SURFACE WATER FACILITY CONSTRUCTION ADMINISTRATION

## Project Data Thru 3/31/2014

Contracted Amount: \$190,704,740.00

Change Orders: \$ 0.00

Estimate to Complete: \$190,704,740.00

Amount Invoiced: \$ 97,362,711.00

Percent Complete: 51%

Completion Date: June 2015



# SURFACE WATER FACILITY CONSTRUCTION ADMINISTRATION

## Project Data Thru 3/31/2014

- Plant startup and commissioning plan development is underway
- Plant equipment factory acceptance testing has begun
- Plant construction daily workforce is approximately 350 workers





**Raw Water Intake  
and Pump Station**





Raw Water Intake & Pump Station - Previous progress photograph



Raw Water Intake & Pump Station - Roof deck installation



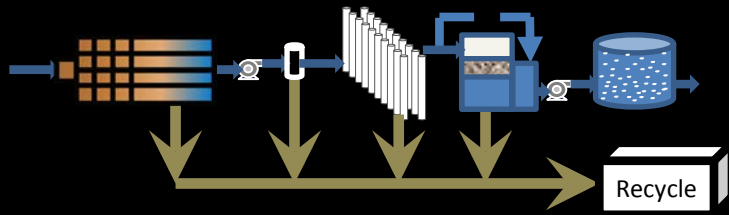
**GAC  
Contactors**

**Membrane  
Building**

**Pretreatment  
Facilities**

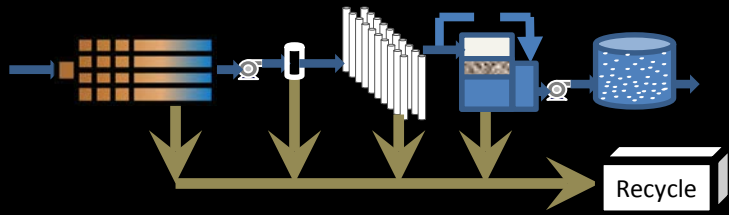
**Chemical  
Facilities**

**Water Treatment Process Structures**

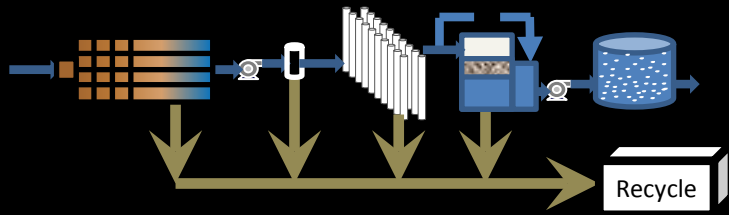


Pretreatment Facility – Previous progress photograph

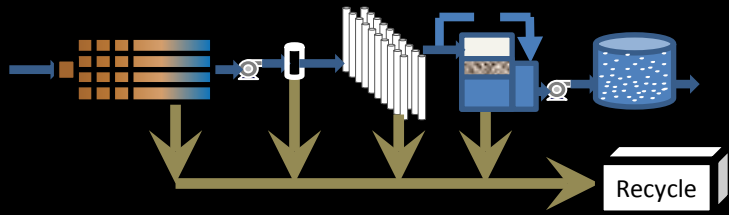




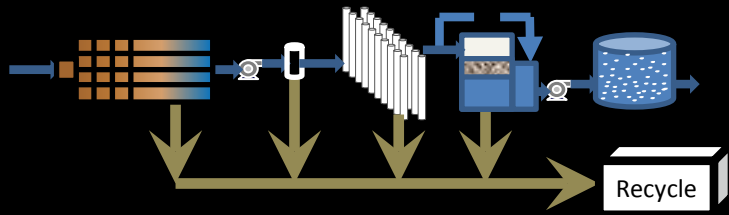
Pretreatment Facility - Access walkway installation



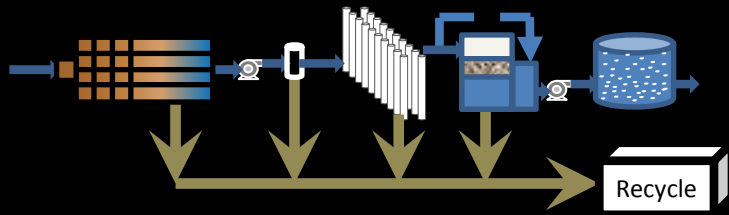
Membrane Building – Previous progress photograph



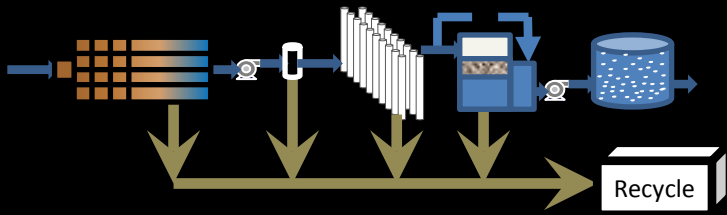
Membrane Building – Installation of membrane equipment racks and piping



Membrane Building – Mechanical and Plumbing rough-in



Granulated Activated Carbon Contactors – Previous progress photograph



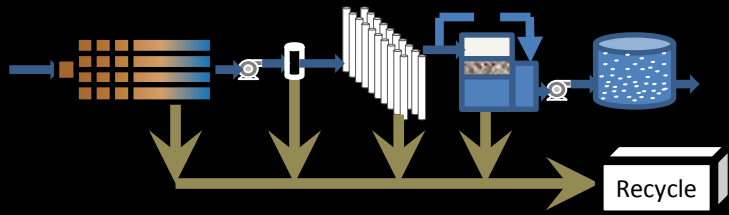
Granulated Activated Carbon Contactors – Leak testing contact basins



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

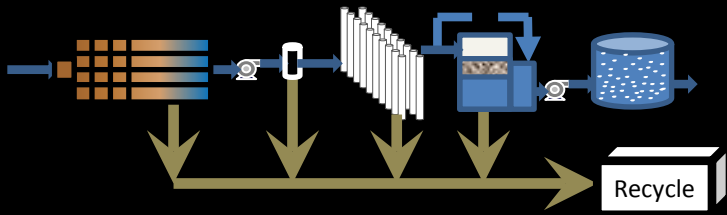
**Finished Water Process Structures**



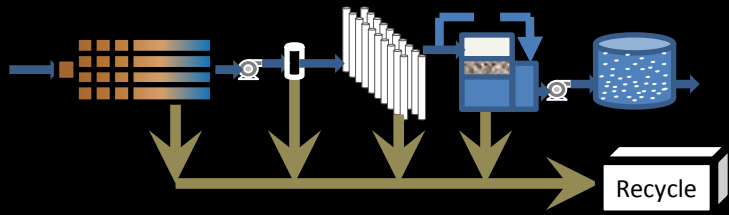


High Service Pump Station - Previous progress photograph

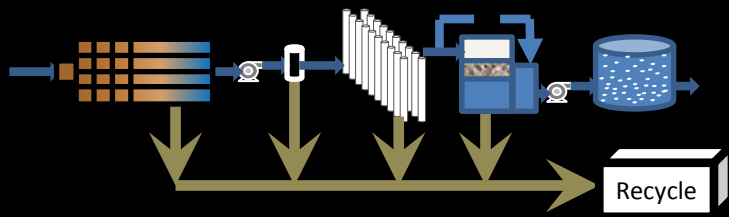




High Service Pump Station – Installation of electrical equipment



Blower Building – Previous progress photograph



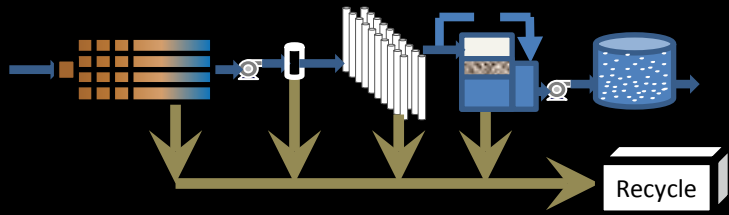
Blower Building – Masonry installation



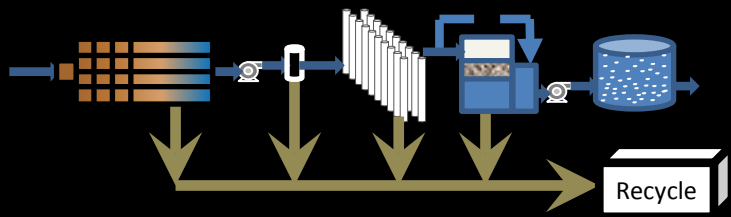
**Backwash  
Equalization Basin**

**Solids-Waste Process  
Structures**

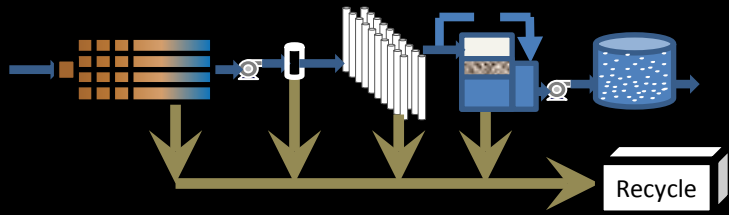
**Process Residual Treatment and Disposal Structures**



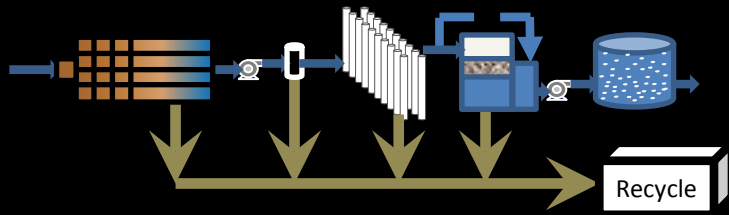
Dewatering Building – Previous progress photograph



Dewatering Building – First floor mechanical installation

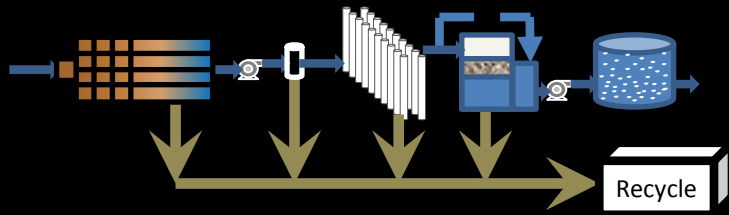


Dewatering Building – Second floor masonry installation



Sludge Thickeners – Previous progress photograph





Sludge Thickeners – Concrete column installation



**Electrical  
Facilities**



**Operations  
Building**



**Operational  
Structures**



Operations Building – Previous progress photograph



Operations Building - Masonry and structural steel installations



Operations Building - Mechanical and Plumbing rough-in



Electrical Facilities - Main transformer installation in progress



Electrical Facilities - Backup Generator installation

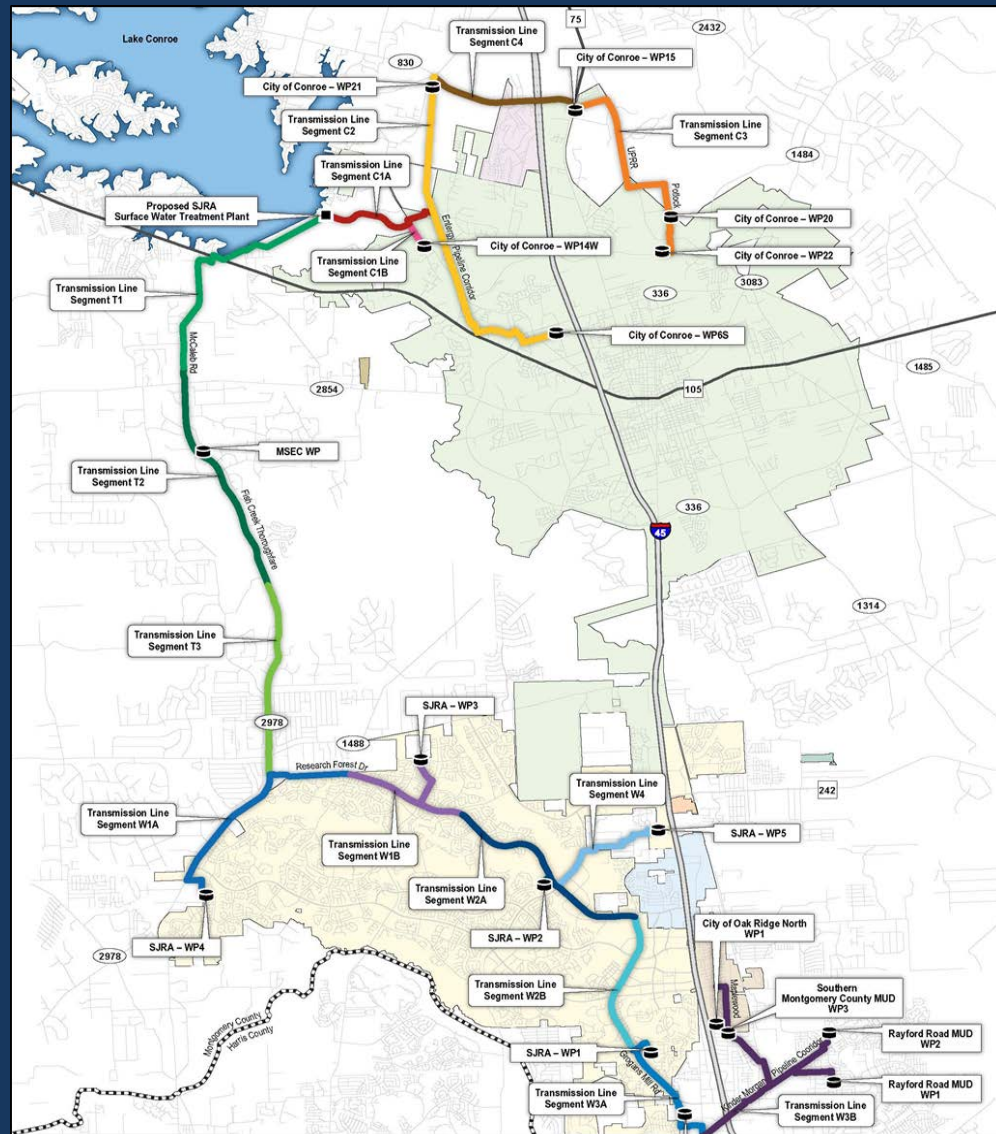
# SURFACE WATER FACILITY CONSTRUCTION PROGRESS

## Questions?





# SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS



# TRANSMISSION LINE SYSTEM CONSTRUCTION ADMINISTRATION

## Project Data Thru 3/31/2014

Original Contract Amount: \$ 146,610,999.10

Change Orders: \$1,298,374.02

Total Contract Amount: \$147,909,373.12

Amount Invoiced: \$ 66,361,818.46

Percent Complete: 45%

Estimated Completion Date: May 2015



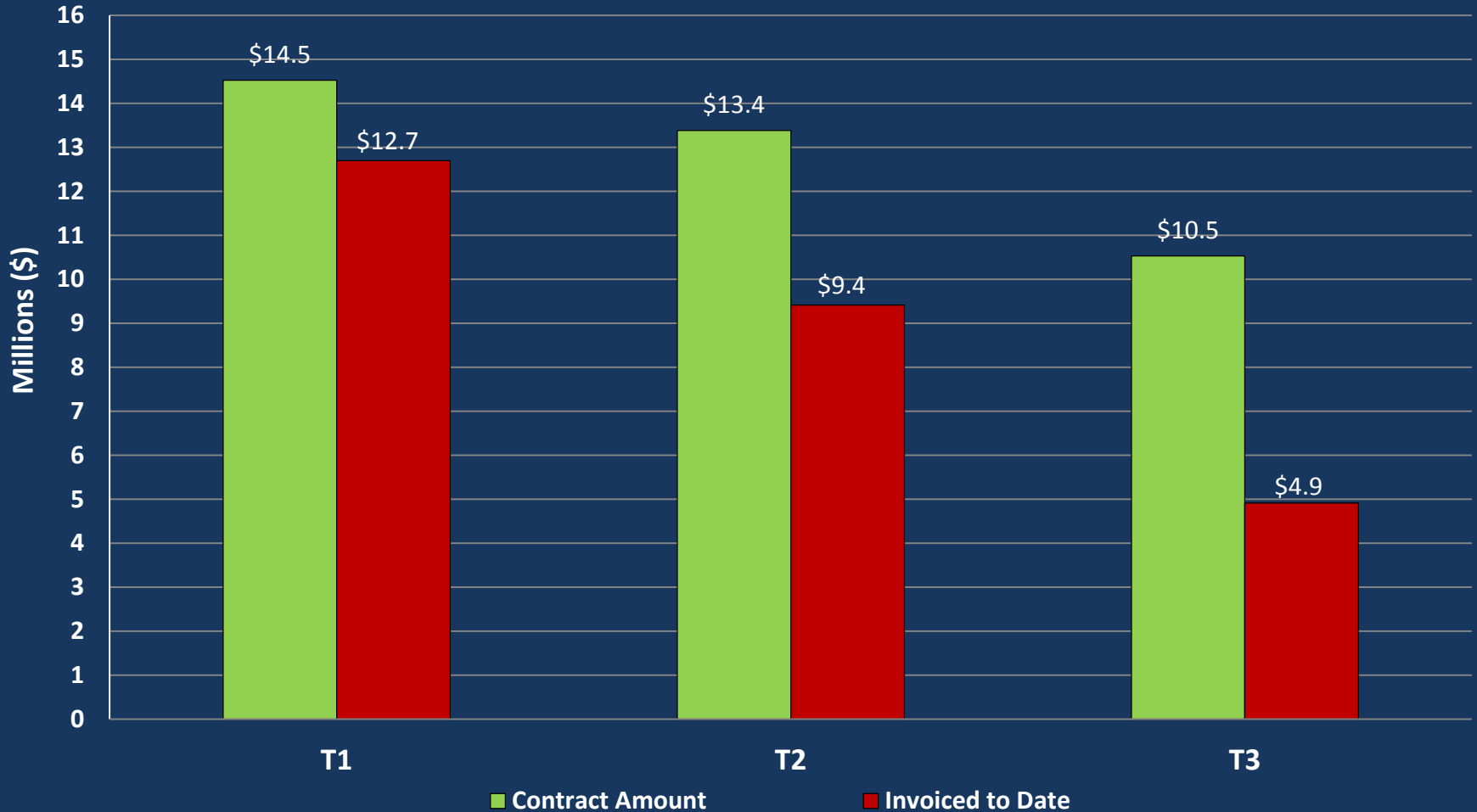
# TRANSMISSION LINE SYSTEM CONSTRUCTION ADMINISTRATION

## Project Data Thru 3/31/2014

Average Daily workforce:	265 workers
Piping installed to date:	25.2 miles
Average cost per day:	\$260,118
Percentage of pipe installed:	49%



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



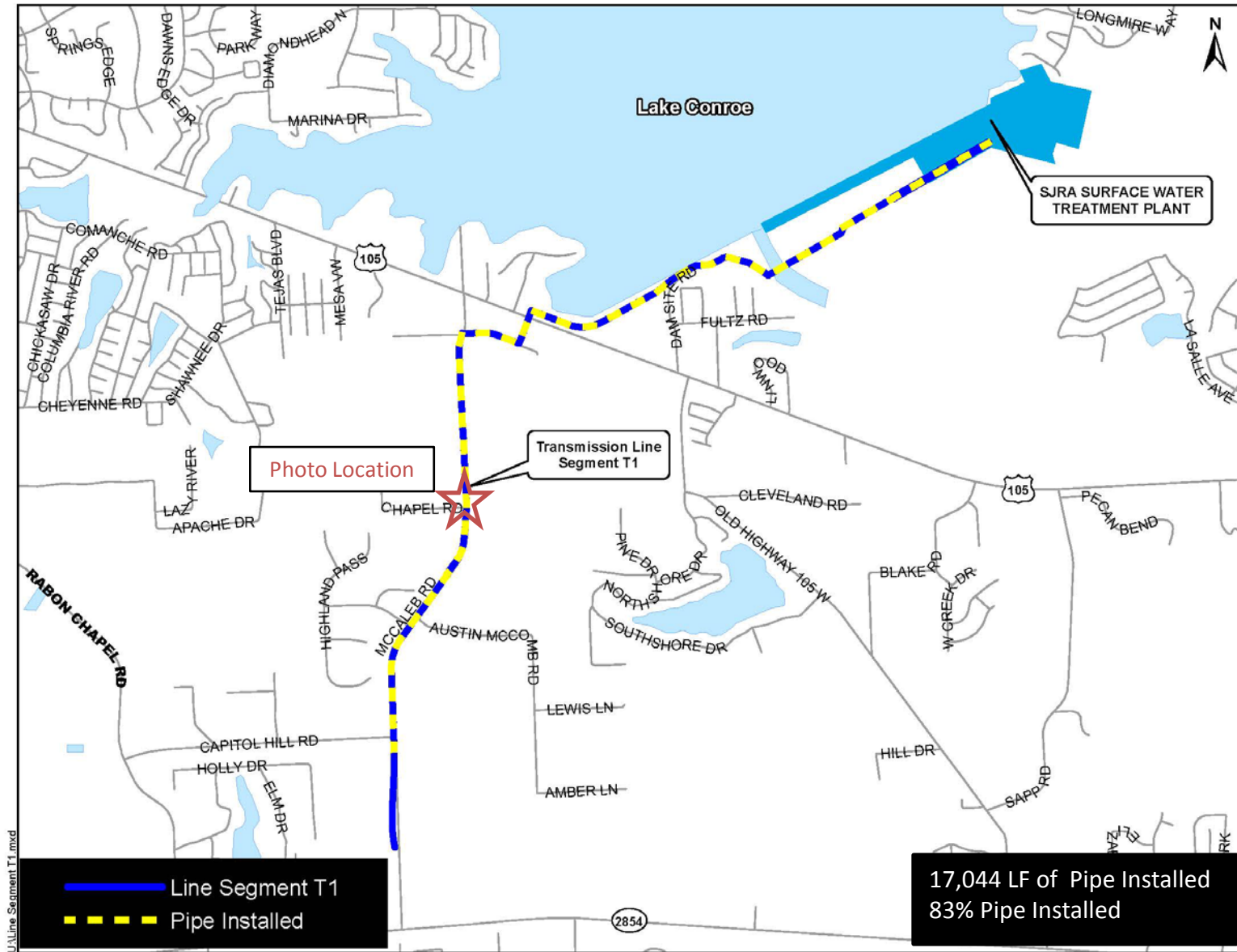


Photo Location

Transmission Line Segment T1

SJRA SURFACE WATER TREATMENT PLANT

- Line Segment T1
- - - Pipe Installed

17,044 LF of Pipe Installed  
83% Pipe Installed



Asphalt pavement repairs along McCaleb Road

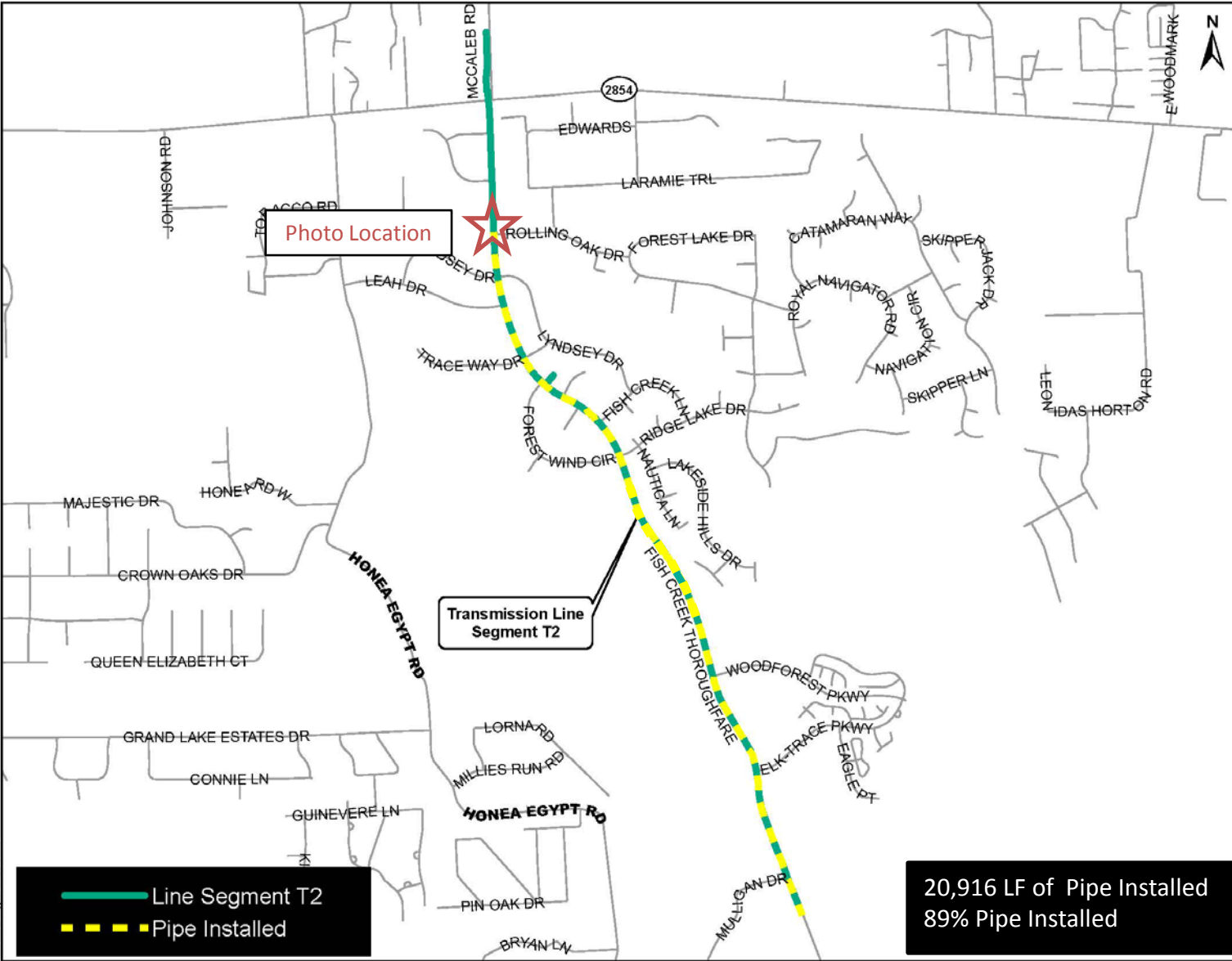


Photo Location

Transmission Line Segment T2

- Line Segment T2
- - - Pipe Installed

20,916 LF of Pipe Installed  
89% Pipe Installed



54-inch pipe installation along Fish Creek Thoroughfare



U:\Line Segment T3.mxd

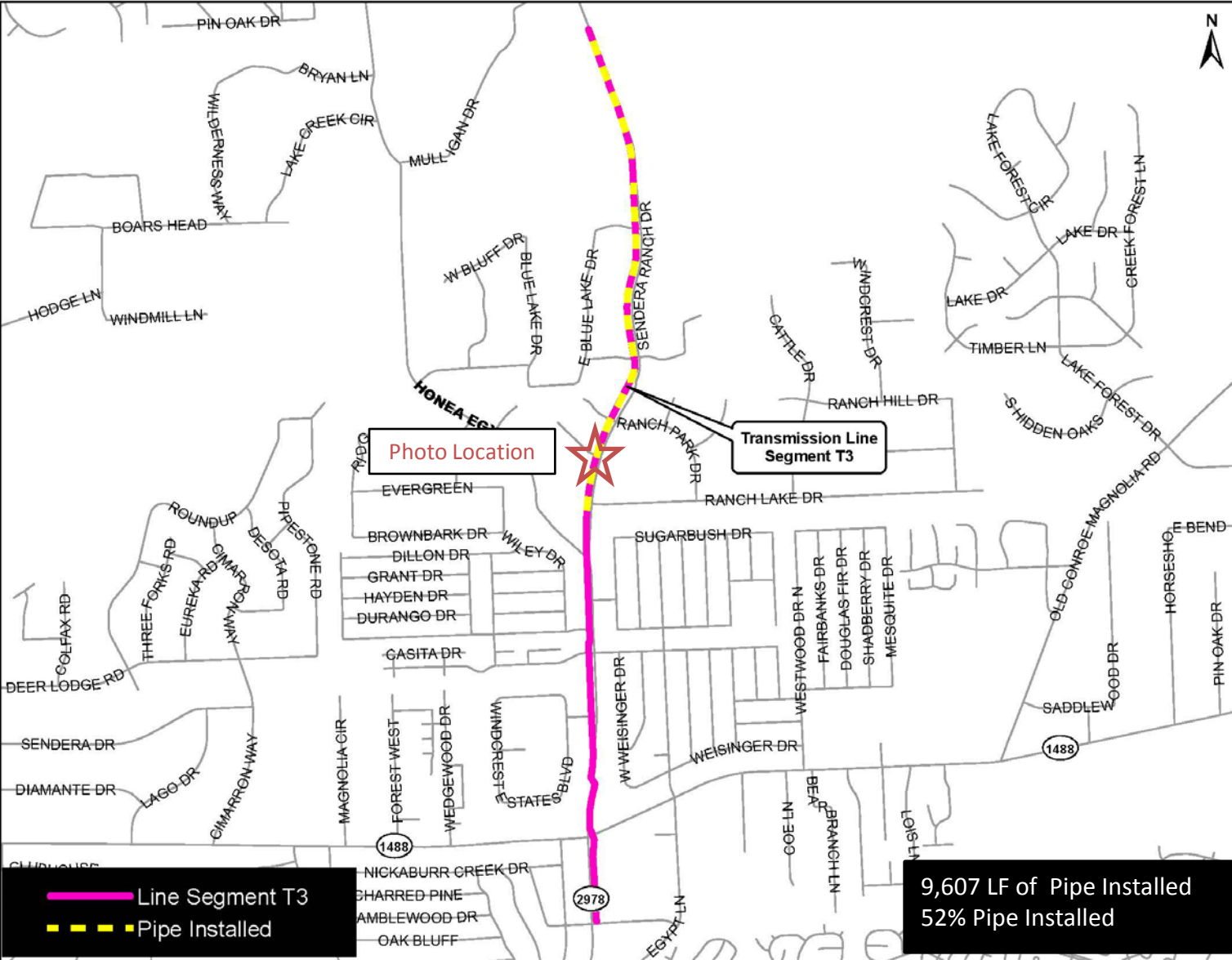


Photo Location

Transmission Line Segment T3

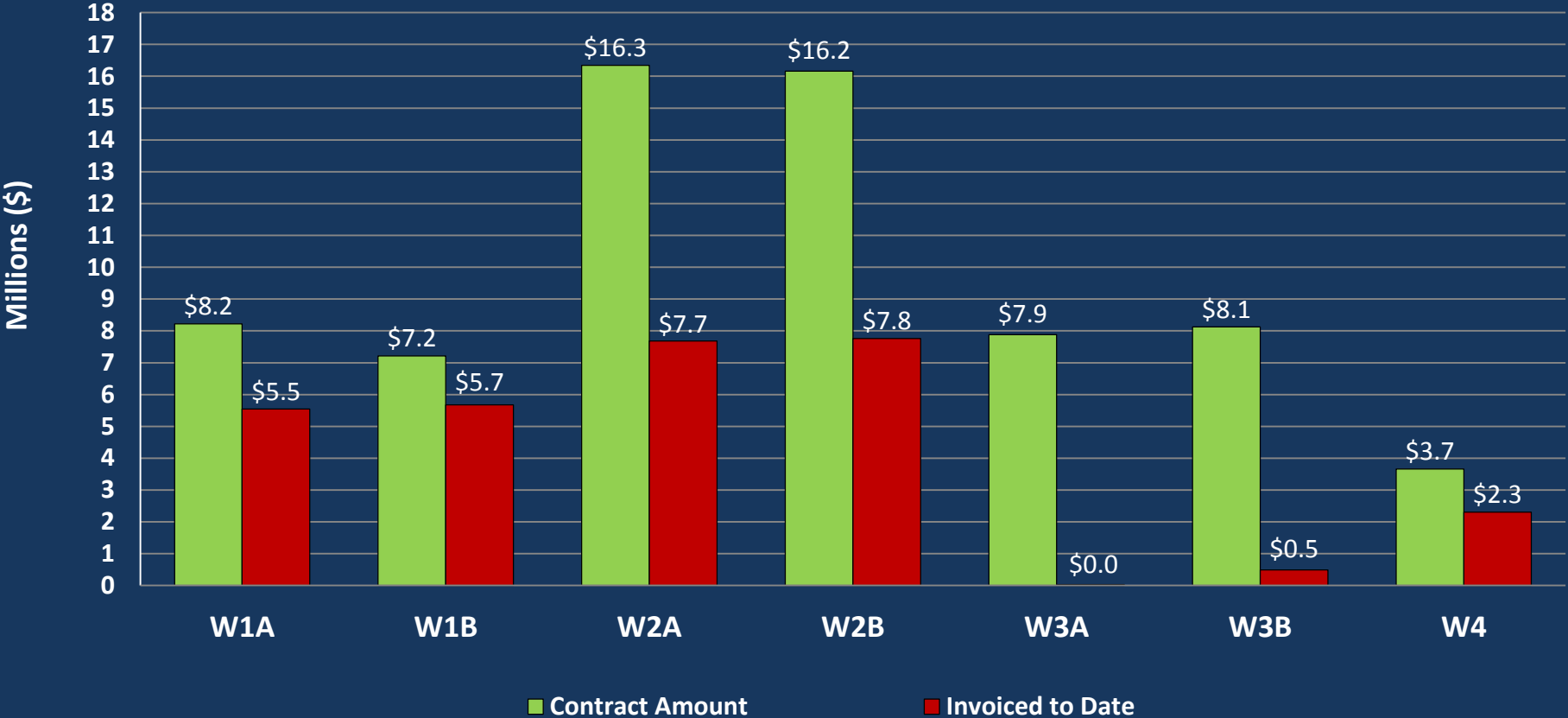
Line Segment T3  
 Pipe Installed

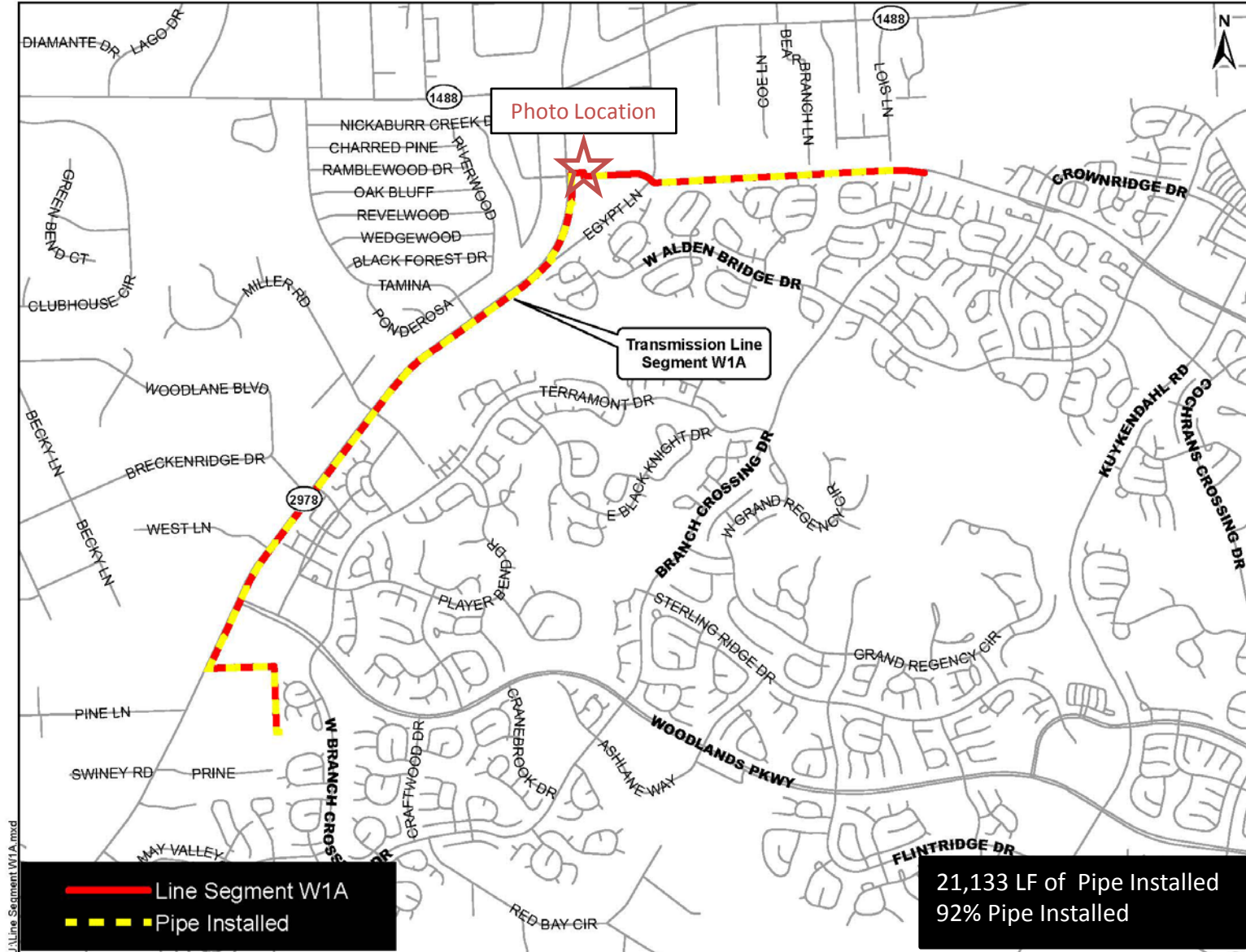
9,607 LF of Pipe Installed  
 52% Pipe Installed



54-inch pipe installation along Sendera Ranch Road

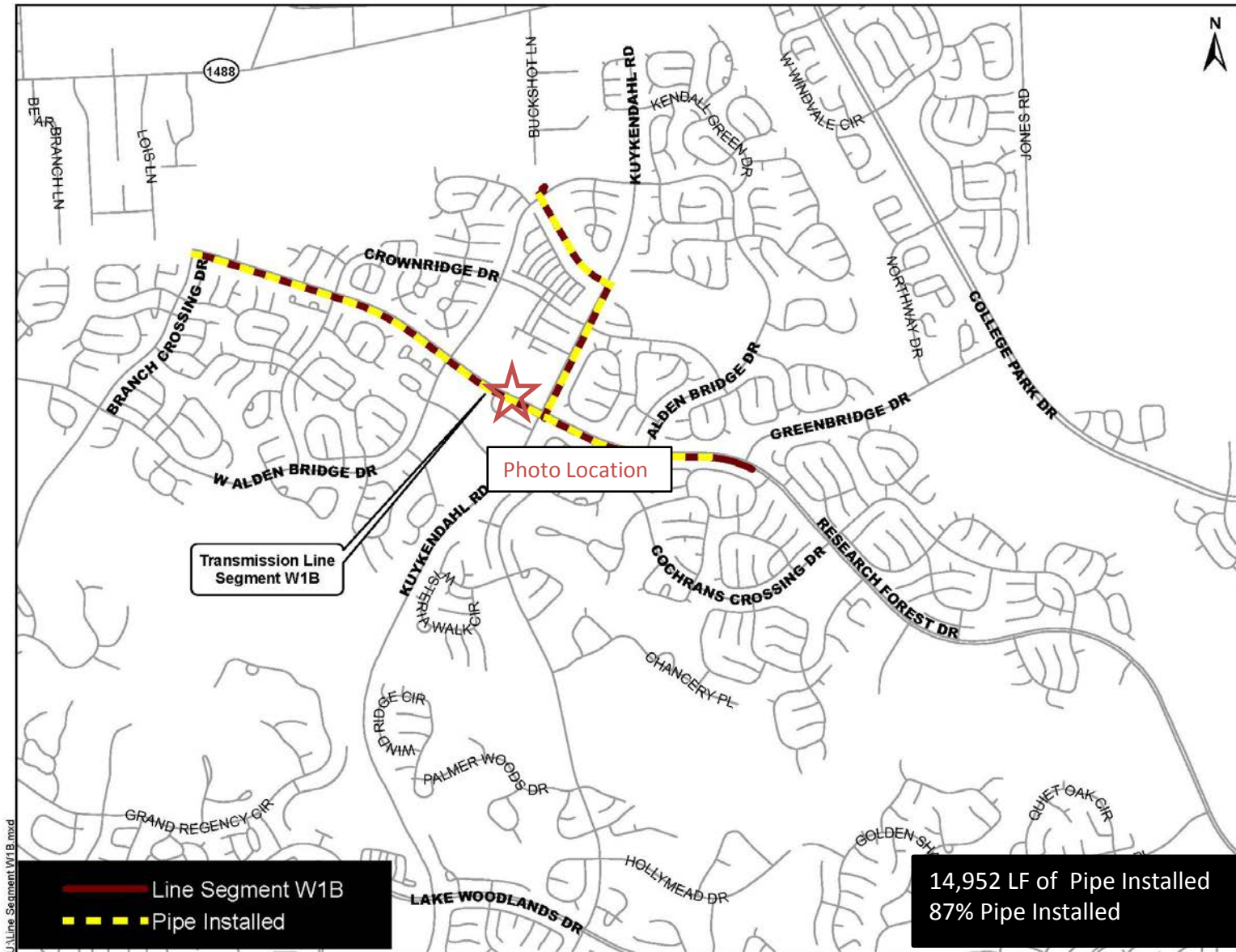
# SURFACE WATER TRANSMISSION SYSTEM "W" ROUTES - PROJECT DATA







Concrete repairs along Research Forest Drive



Transmission Line Segment W1B

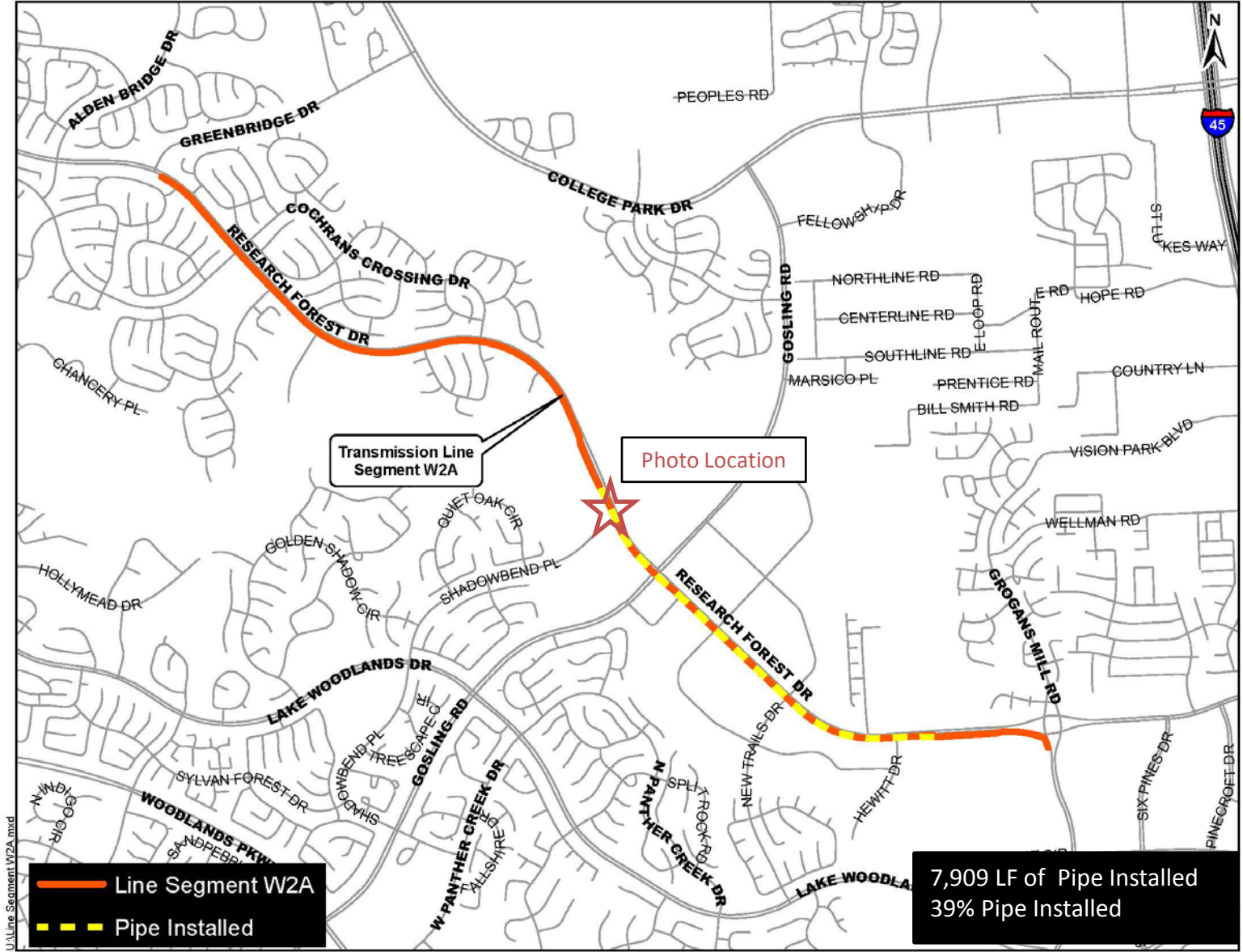
Photo Location

- Line Segment W1B
- Pipe Installed

14,952 LF of Pipe Installed  
87% Pipe Installed



Asphalt shoulder repair along Research Forest Drive



Transmission Line Segment W2A

Photo Location

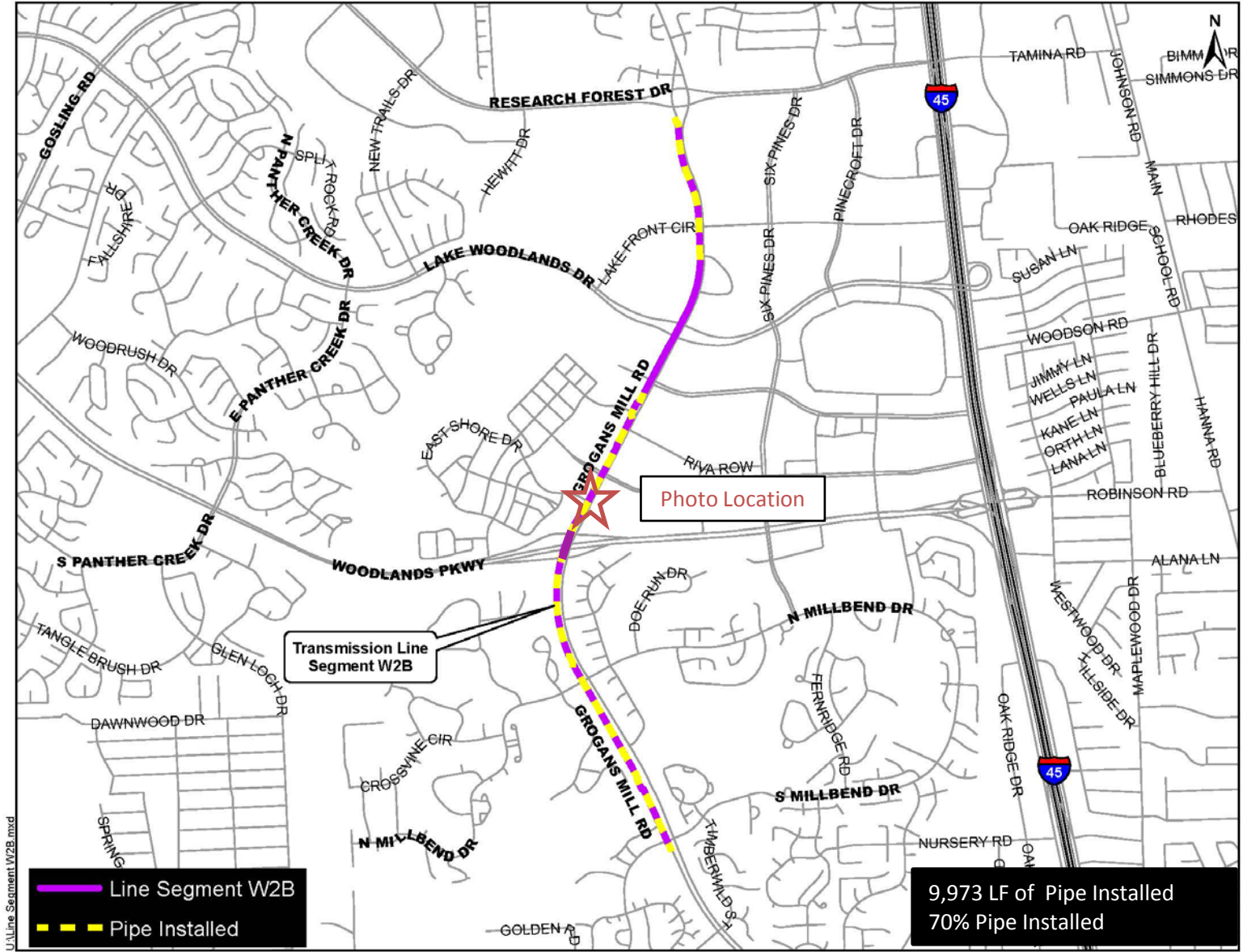
- Line Segment W2A
- Pipe Installed

7,909 LF of Pipe Installed  
39% Pipe Installed





42-inch pipe installation along Research Forest Drive



UVLine Segment W2B.mxd

- Line Segment W2B
- Pipe Installed

Photo Location

Transmission Line Segment W2B

9,973 LF of Pipe Installed  
70% Pipe Installed



Concrete pavement installation at Grogan's Mill Road and East Shore Drive

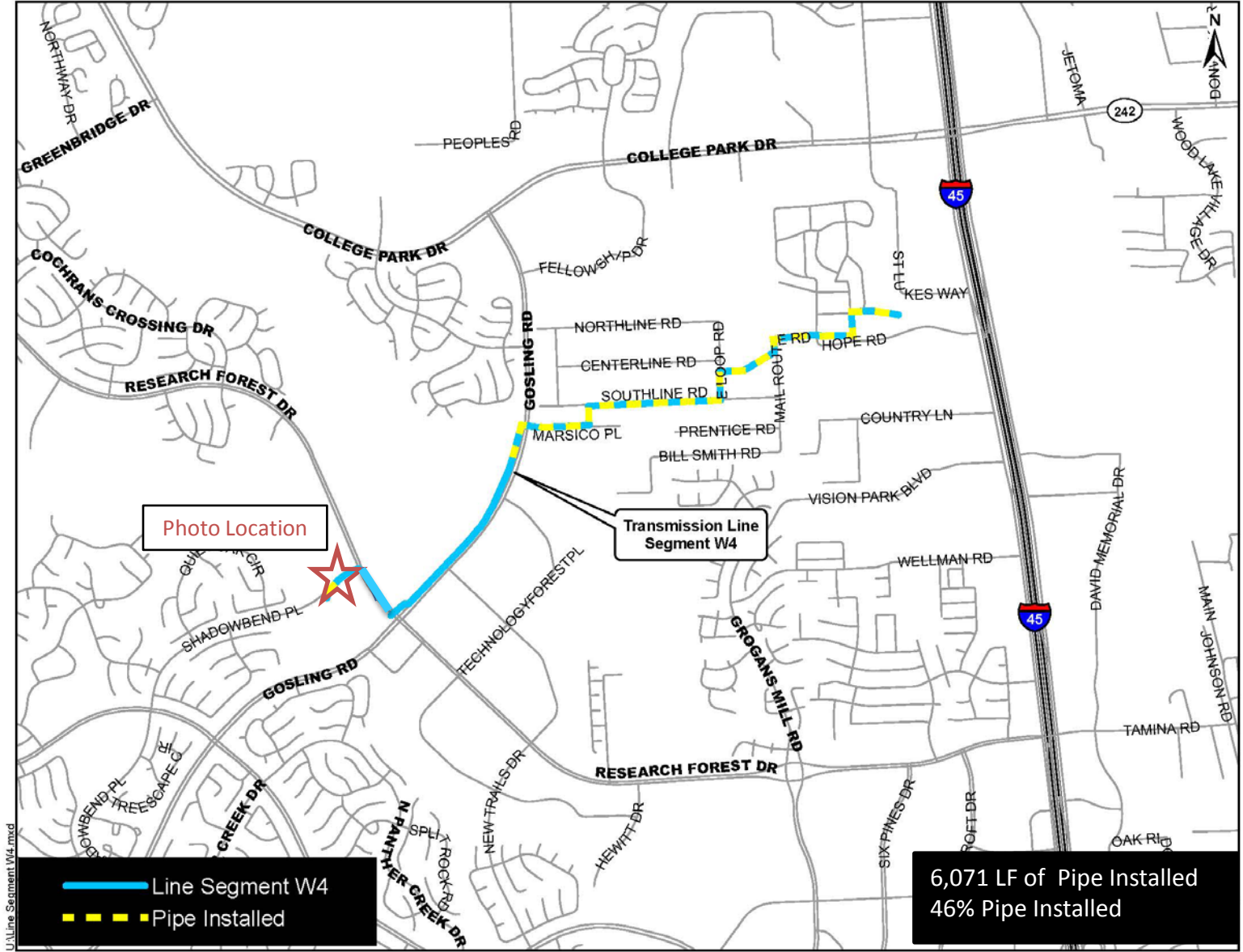


Photo Location

Transmission Line Segment W4

— Line Segment W4  
- - - Pipe Installed

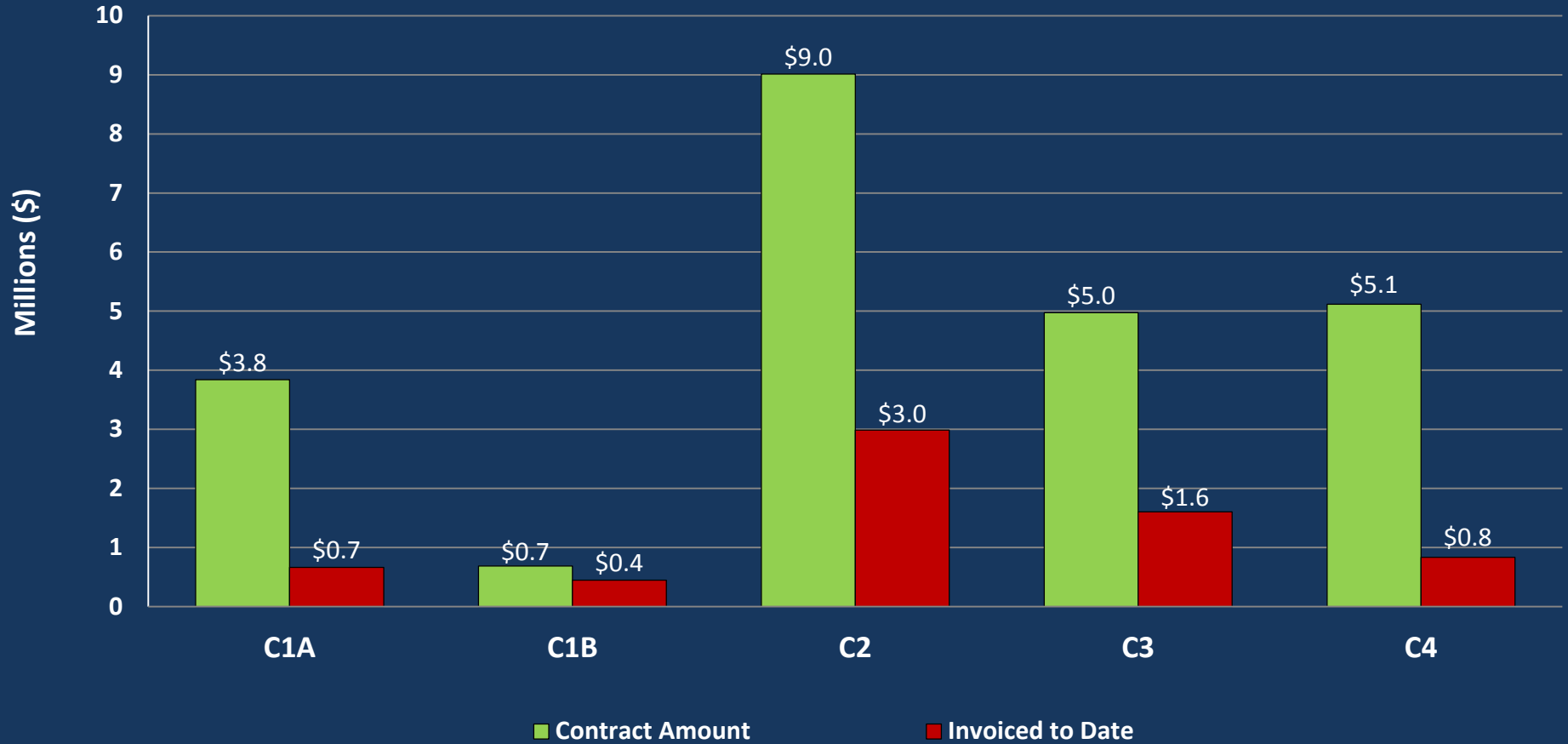
6,071 LF of Pipe Installed  
 46% Pipe Installed

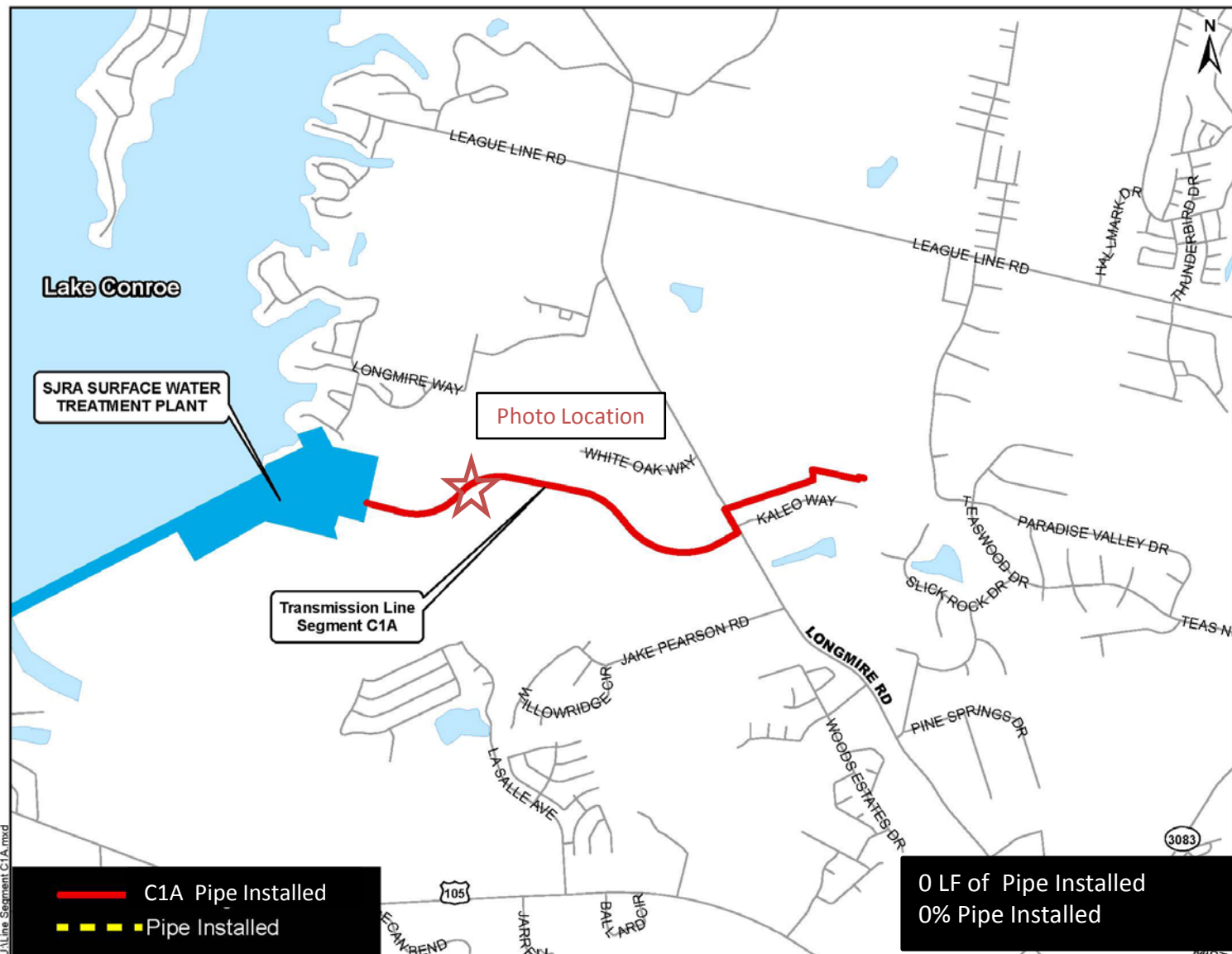
L:\Line Segment W4.mxd



24-inch pipe and fiber optic conduit installation at Shadowbend Place

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





Lake Conroe

SJRA SURFACE WATER TREATMENT PLANT

Photo Location

Transmission Line Segment C1A

- C1A Pipe Installed
- - - Pipe Installed

0 LF of Pipe Installed  
0% Pipe Installed

U:\Line Segment C1A.mxd

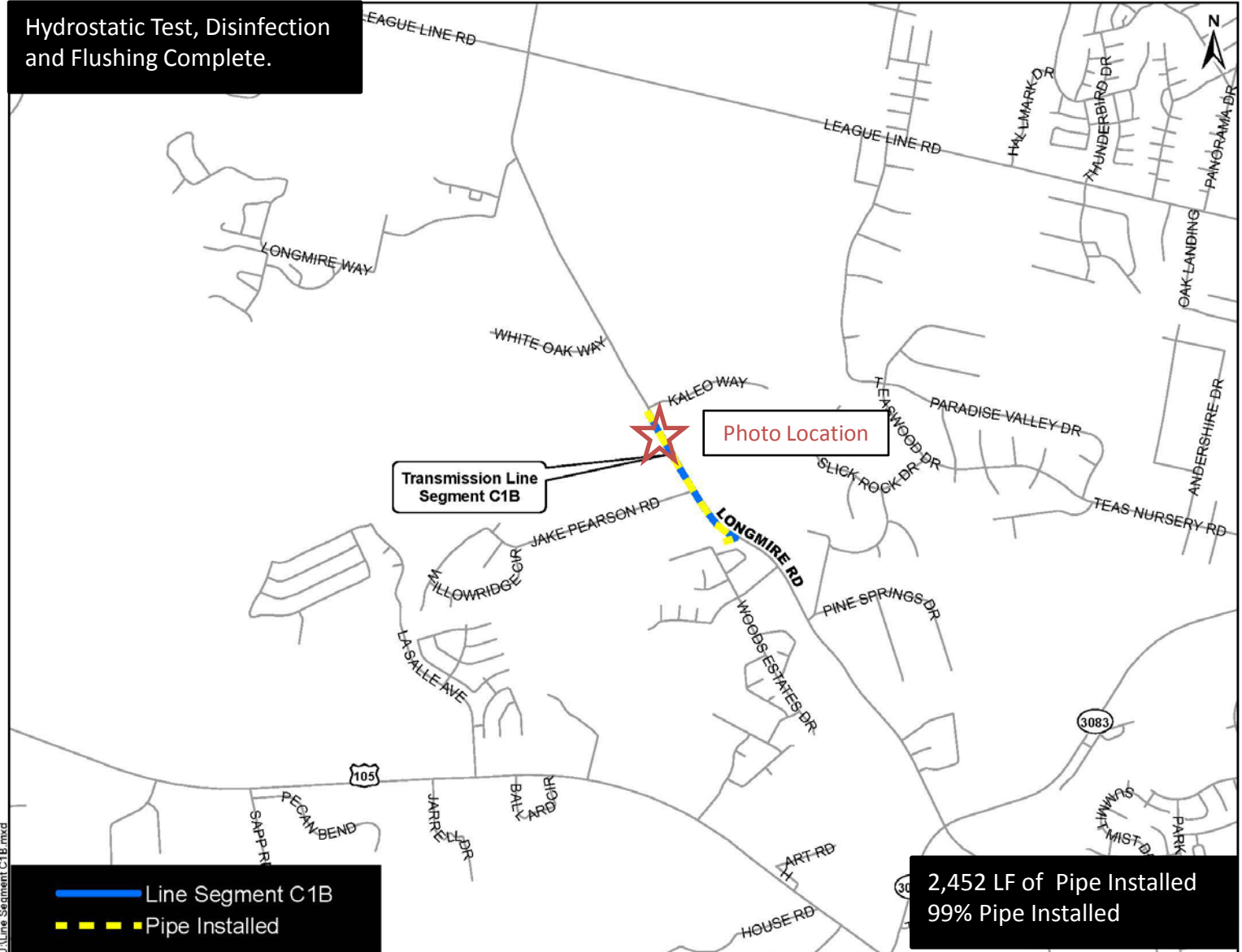
3083



Tunnel installation at creek along GRP Access Road



Hydrostatic Test, Disinfection and Flushing Complete.



Transmission Line Segment C1B

Photo Location

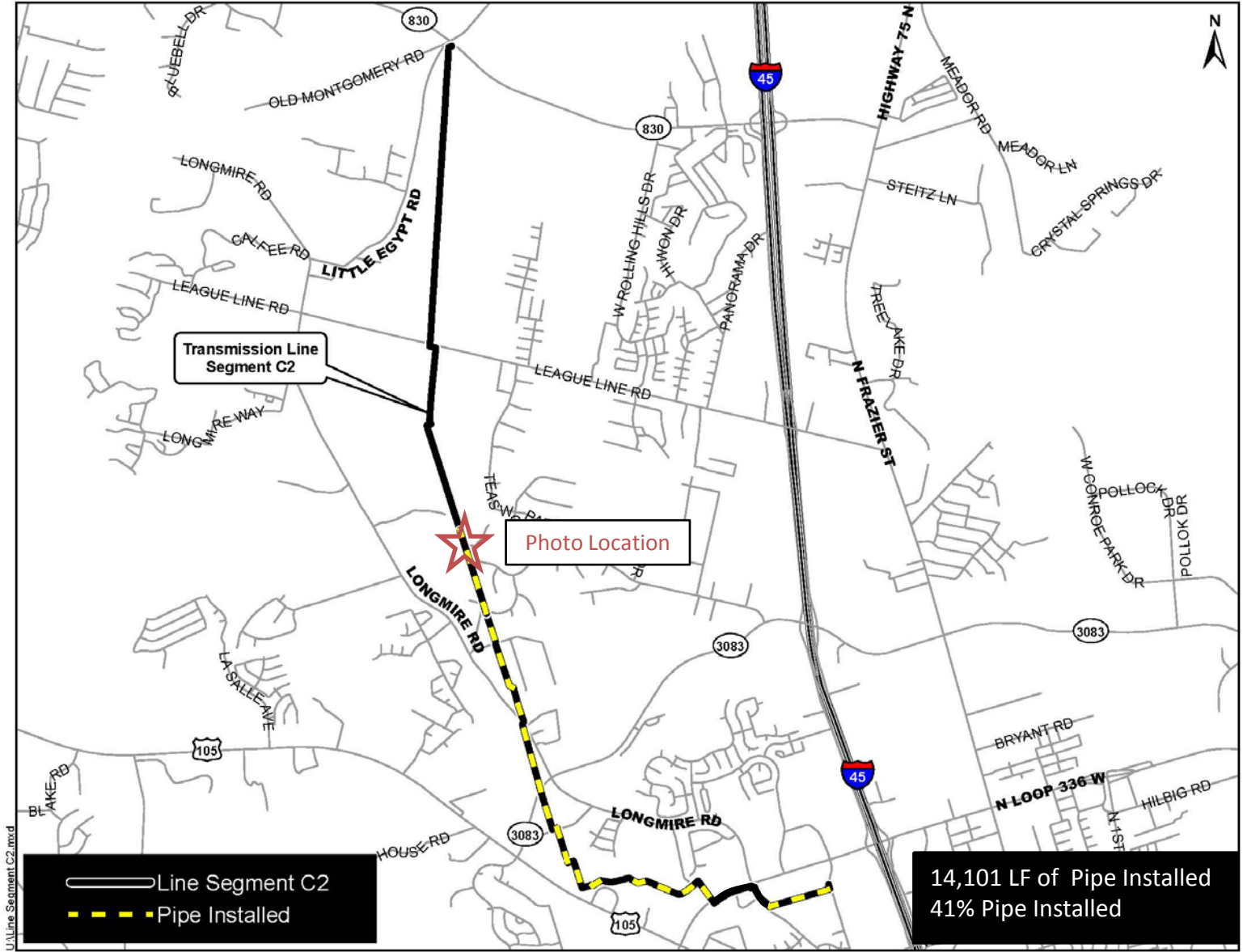
— Line Segment C1B  
- - - Pipe Installed

2,452 LF of Pipe Installed  
99% Pipe Installed

UVLine Segment C1B.mxd





Horizontal directional drilling fiber optic conduit along Longmire Road



Transmission Line Segment C2

Photo Location

 Line Segment C2  
 Pipe Installed

14,101 LF of Pipe Installed  
 41% Pipe Installed



Pipe installation along Entergy easement and Wayne Bennett Court

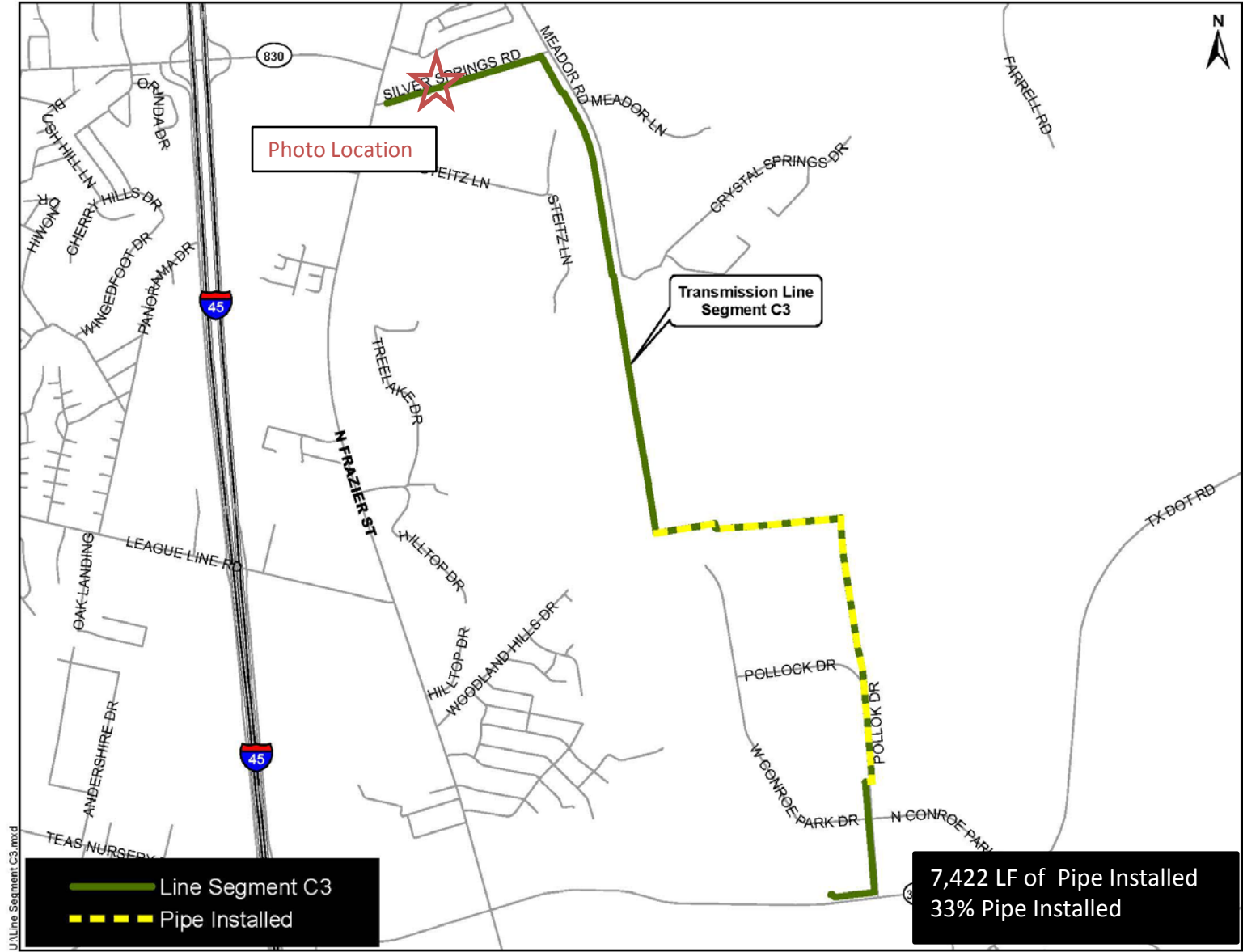


Photo Location

Transmission Line Segment C3

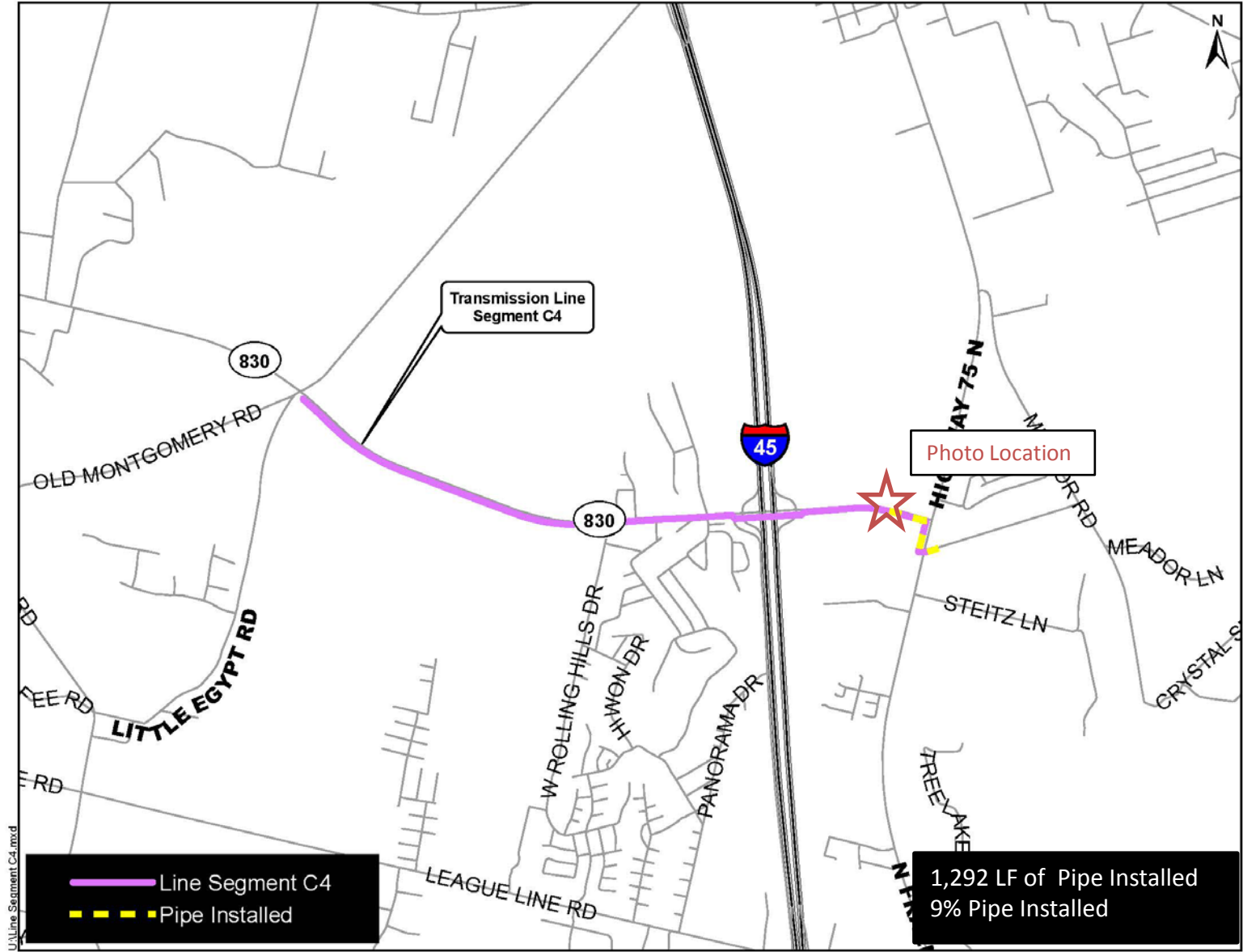
— Line Segment C3  
- - - Pipe Installed

7,422 LF of Pipe Installed  
33% Pipe Installed

U:\Line Segment C3.mxd



Security fence installation along Silver Springs Road at Girl Scout property



Transmission Line Segment C4

Photo Location

— Line Segment C4  
- - - Pipe Installed

1,292 LF of Pipe Installed  
9% Pipe Installed

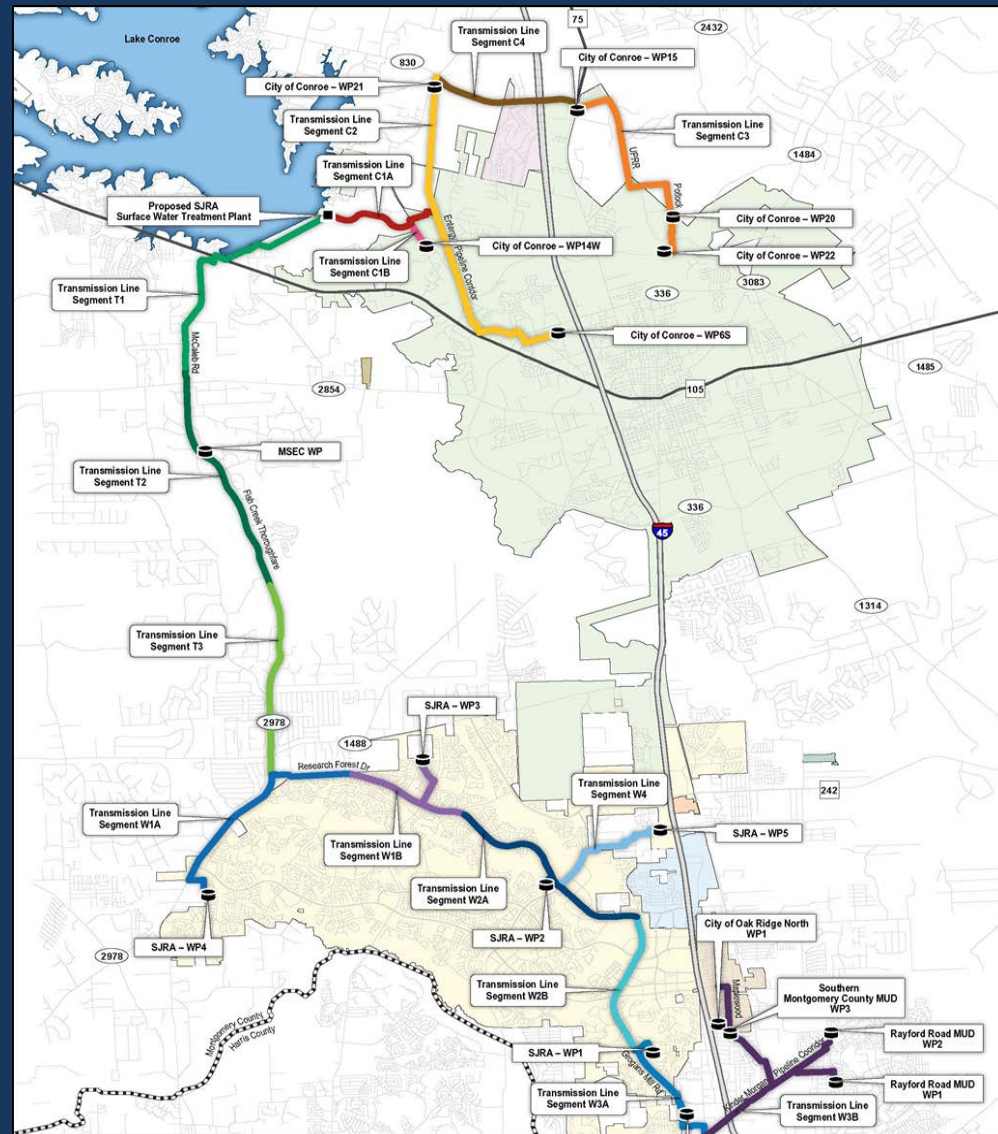
U:\Line Segment C4.mxd



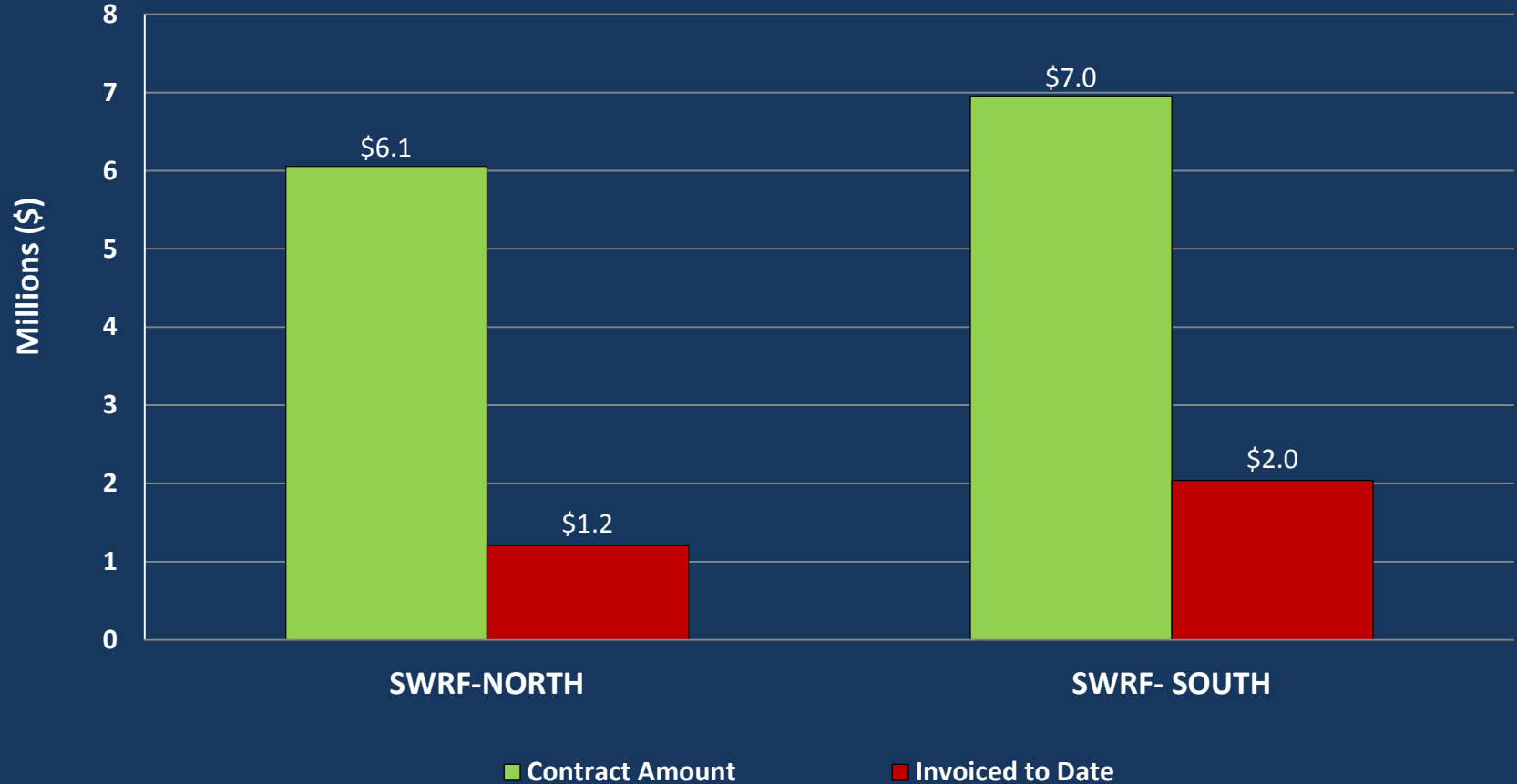
24-inch pipe and restrained joint installation along FM 830

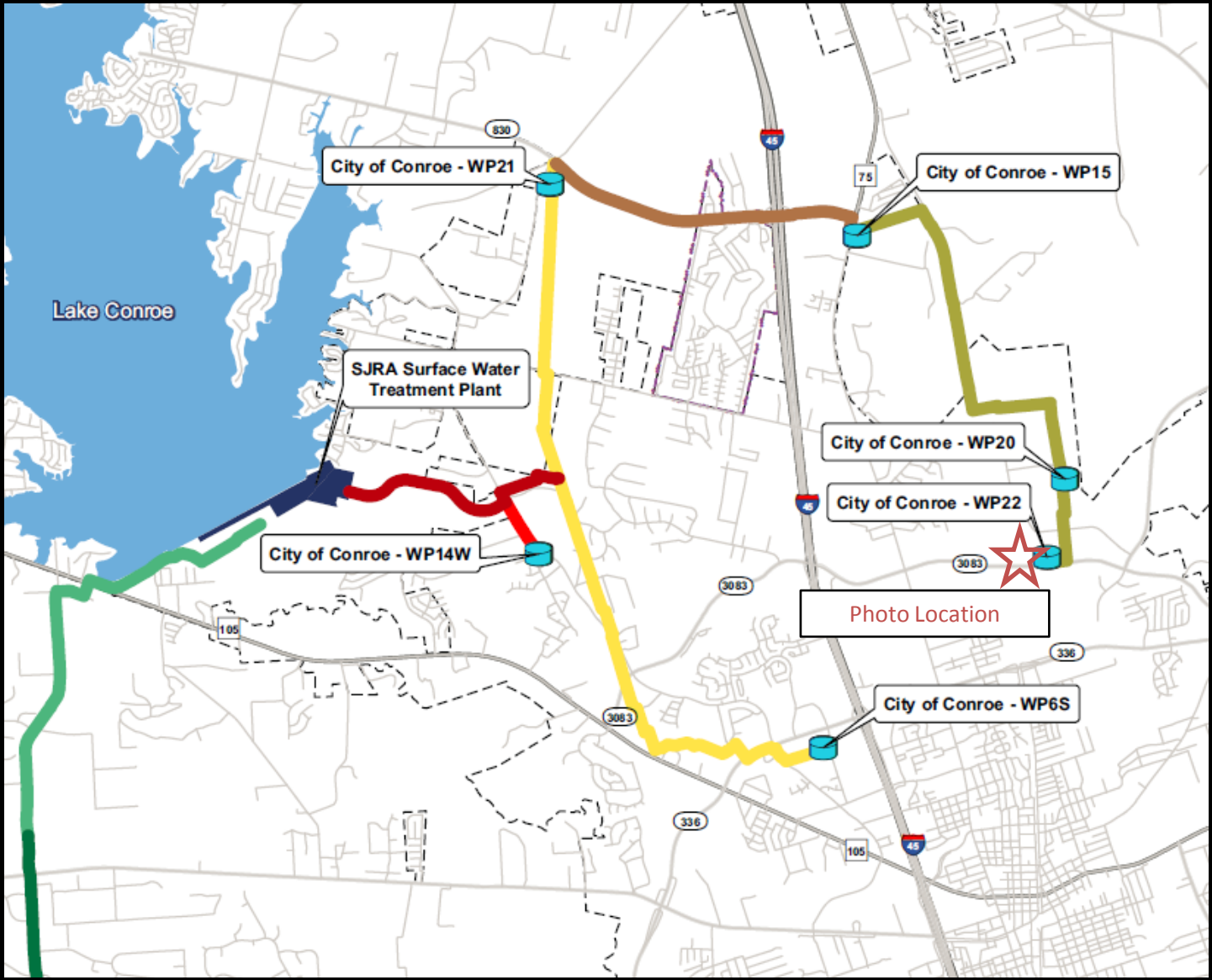


# SURFACE WATER RECEIVING FACILITIES CONSTRUCTION PROGRESS



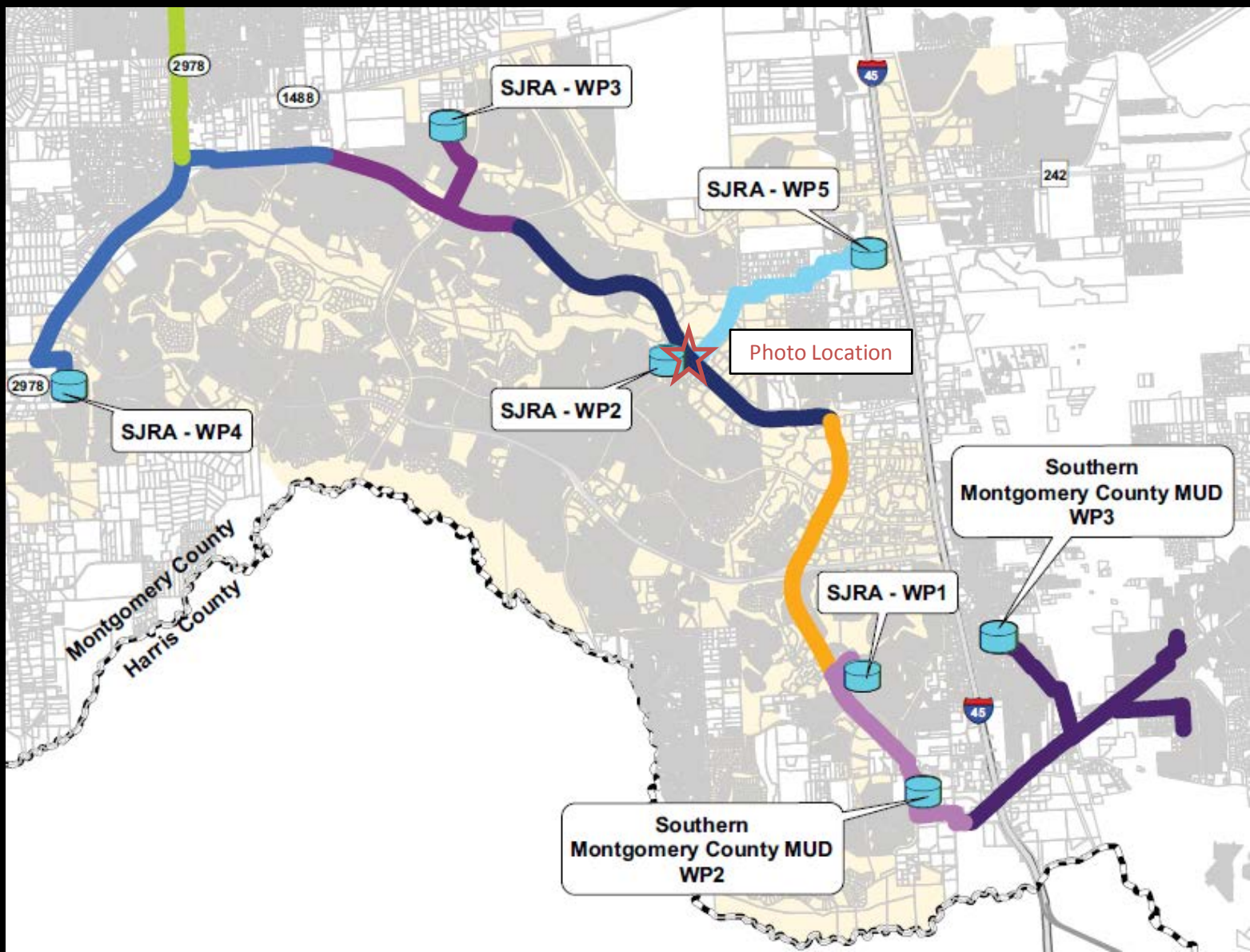
# SURFACE WATER TRANSMISSION SYSTEM RECEIVING FACILITIES - PROJECT DATA







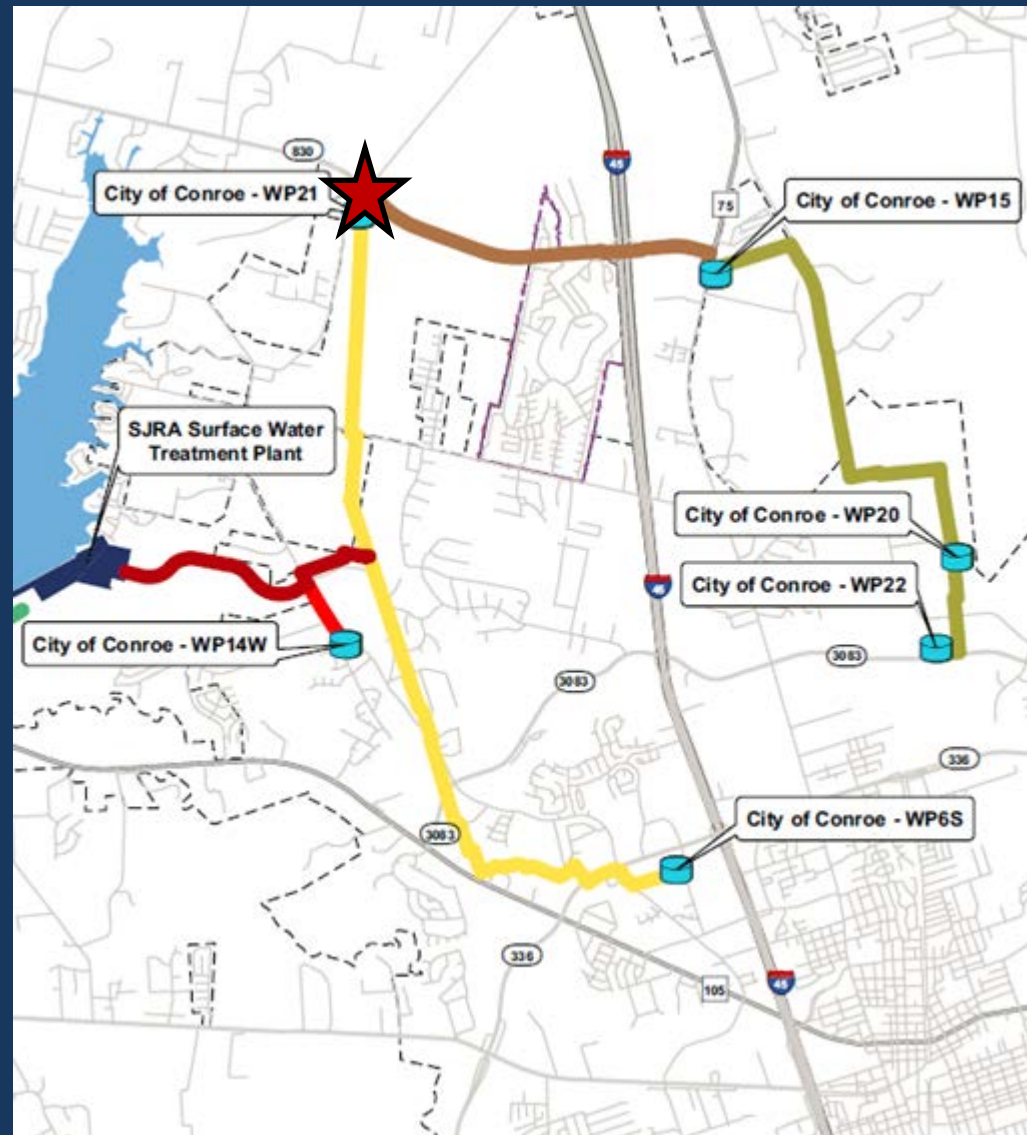
Flow and pressure control station slab installation at Conroe Water Plant No. 22



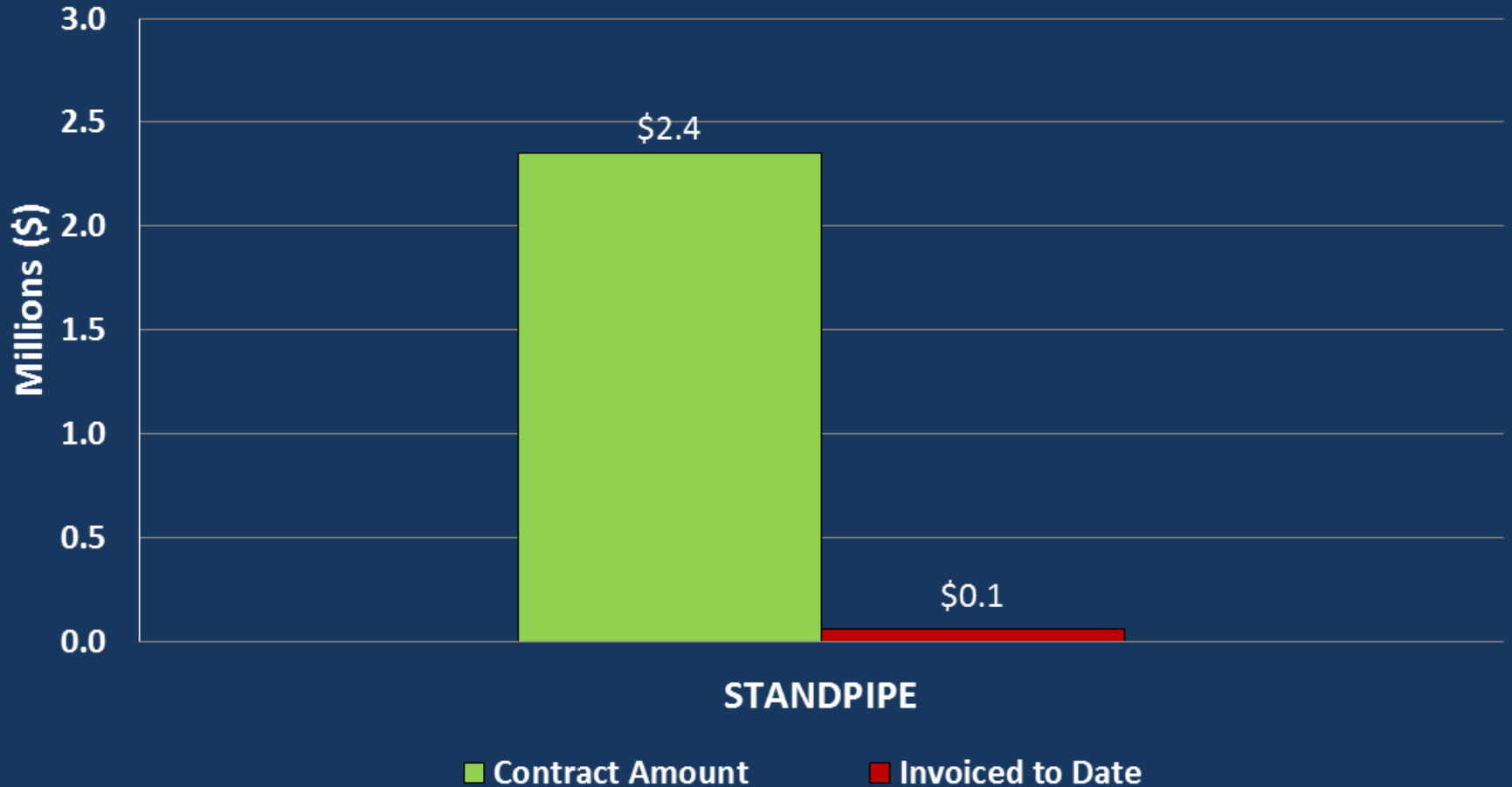


20-inch ground storage tank connection at SJRA Water Plant No. 2

# SURFACE WATER STANDPIPE CONSTRUCTION PROGRESS



# SURFACE WATER TRANSMISSION SYSTEM STANDPIPE - PROJECT DATA







Example Standpipe - SJRA Standpipe currently under fabrication

# FIBER OPTIC COMMUNICATION CONSTRUCTION ADMINISTRATION

## Project Data Thru 3/31/2014

Contracted Amount: \$ 2,885,432.35

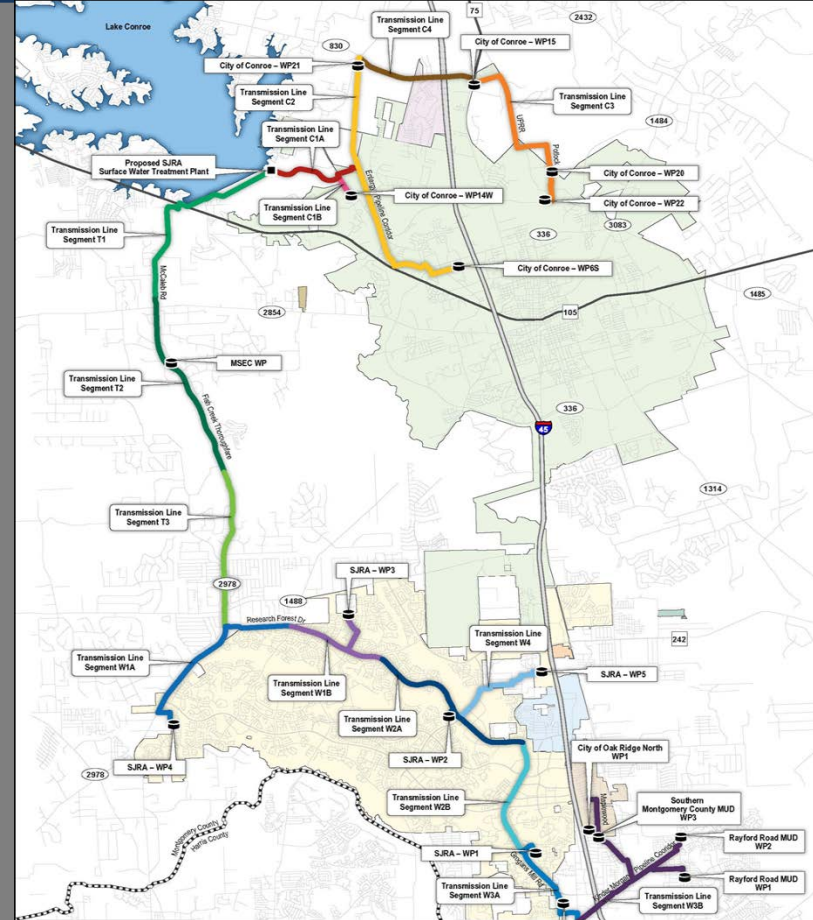
Change Orders: \$ 0.00

Estimate to Complete: \$ 2,885,432.35

Amount Invoiced: \$ 0.00

Percent Complete: 0%

Completion Date: June 2015



# SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

## QUESTIONS?

