



GROUNDWATER REDUCTION PLAN PROGRAM

MONTHLY PROGRESS REPORT - JUNE 2014



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ACRONYMS AND DEFINITIONS

ACRONYMS

CA&I	Construction Administration and Inspection
CCT	Construction Communication Team
CIP	Capital Improvement Project
CM&I	Construction Management and Inspection
CMAR	Construction Manager At Risk
CMT	Construction Materials Testing
CSB / P	Competitive Sealed Bid / Proposal
EA	Environmental Assessment
EAC	Estimate At Completion
FONCS	Fiber Optics Network Communication System
GIS	Geographic Information System
GRP	Groundwater Reduction Plan
GST	Groundwater Storage Tank
HSPS	High Speed Pump Station
LSGCD	Lone Star Groundwater Conservation District
LVGU	Large Volume Groundwater User
NTP	Notice To Proceed
PER	Preliminary Engineering Report
PMP	Program Management Plan
PVC	Polyvinyl Chloride
PSA	Professional Services Agreement
QA	Quality Assurance
RCCP	Reinforced Concrete Cylinder Pipe
RFB / Q / P	Request For Bids / Qualifications / Proposals
RWI / RWPS	Raw Water Intake / Raw Water Pump Station
SJRA	San Jacinto River Authority
SOQ	Statement of Qualifications
SWF	Surface Water Facilities (SWTP, HSPH and RWI)
SWRF	Surface Water Receiving Facilities
SWTP	Surface Water Treatment Plant
TCEQ	Texas Commission on Environmental Quality

DEFINITIONS

TWDB	Texas Water Development Board
TXDOT	Texas Department of Transportation
WIF	Water Infrastructure Fund
GROUNDWATER REDUCTION PLAN (GRP)	The document developed and filed with the LSGCD indicating SJRA's plan to reduce the permitted 2009 groundwater pumpage of its GRP Participants by 30%. The GRP is administered by the SJRA, including any supplements, revisions, or amendments.
GRP PROGRAM TEAM	SJRA staff, Program Management Consultant (Brown & Gay Engineers, Inc.) staff, and technical consultants working interdependently toward meeting the goals of the Groundwater Reduction Plan.
GRP ADMINISTRATOR	The SJRA General Manager's designee who administers the SJRA Groundwater Reduction Plan and GRP Contract with GRP Participants.
GRP CONTRACT	Contract between the SJRA and a Participant to be included in the SJRA's efforts to meet the surface water conversion requirements mandated by the LSGCD.
JOINT GRP	GRP which is prepared to include (takes into account) LVGUs who have executed a GRP Contract with the SJRA to join the SJRA's GRP. Contracted LVGUs obtain LSGCD groundwater reduction regulation compliance through the SJRA's Joint GRP without preparing and submitting a GRP.
LARGE VOLUME GROUNDWATER USER(s) (LVGU)	Any person or entity that, through a single well or a combination of wells, actually produces or is authorized by permit(s) issued by the LSGCD to produce 10 million gallons or more of groundwater annually on or after January 1, 2008.
PARTICIPANT(S)	Regulated User(s) that enters into and remains subject to a written agreement with the SJRA to be included in the SJRA's GRP and includes the legal successors or assigns of Participant(s).
REGULATED USER(S)	Any public or private entity or person that is or becomes subject to the District Regulatory Plan established by the LSGCD and includes any amendments, revisions or supplements thereto as may be adopted by the LSGCD.
SJRA GRP DIVISION	Division of the SJRA responsible for GRP compliance, and the management, administration, operation and maintenance of the surface water facilities and surface water transmission system.



1.0 PLANNING

The GRP Program Team meets regularly for the purposes of setting performance expectations and goals of the GRP Program, identifying the efforts required to achieve these objectives, evaluating the effectiveness of such efforts, and modifying those efforts based upon both internal and external performance evaluations.

1.1 STRATEGIC

As we near the January 1, 2016 deadline for the mandatory reduction of groundwater withdrawal, it is important to plan and prepare for the next step after construction is substantially complete at the Surface Water Facility. The GRP Program Team along with CMAR, CM&I, and CMT, are currently planning and preparing for water testing at the Surface Water Facility plant systems prior to startup. Most of the structures at the Surface Water Facility will be operational by September 2014, therefore the testing of plant systems will begin at that time. The Raw Water Intake and Pump Station will be the first system tested, utilizing water from Lake Conroe. Once the pumps have been tested, all water used to test the pumps will be immediately pumped back into Lake Conroe. No water will be lost or depleted for this infrastructure testing. Because potable water must be used to test all water treatment plant systems, testing for those systems will be done by utilizing water purchased from the City of Conroe.

1.2 ENGINEERING AND CONSTRUCTION

All procurement services for construction proposals, with the exception of the permanent access road, have been completed and fifteen transmission line construction contracts have been awarded. The engineering consultants will continue to provide construction phase services by reviewing submittals and requests for information as work proceeds.

1.3 MEETINGS

Various meetings continued this month with the GRP Program Team. A listing of these meetings is attached as ***Exhibit 9***.



Butterfly valves along Transmission Line Segment W3A

2.0 PROJECT ACTIVITIES

Currently, the GRP Program remains on schedule for the delivery of treated surface water to select Joint GRP Participants on or before January 1, 2016. A simplified GRP Program schedule can be found in attached Exhibit 1.

2.1 ENGINEERING

SURFACE WATER TRANSMISSION SYSTEM

Segments T1, T2, T3, W1A, W1B, W2A, W2B, W3A, W3B, W4, C1A, C1B, C2, C3, C4, Surface Water Receiving Facilities—North, Surface Water Receiving Facilities—South, Standpipe, and Fiber Optic Communications System –

Design is complete. Engineering consultant is providing construction phase services.

Construction Management and Inspection (CM&I) – The CM&I consultant provided management and inspection services for Transmission Segments T1, T2, T3, W1A, W1B, W2A, W2B, W3A, W3B, W4, C1A, C1B, C2, C3, C4, WRF-N, WRF-S, and the Standpipe.

Construction Materials Testing Consultant (CMT) - CMT consultant is currently working with CM&I staff to perform industry standard construction materials testing. Testing includes subgrade and backfill soil densities, compressive strengths, masonry and coatings.

SURFACE WATER FACILITIES

Raw Water Intake Pump Station – Design is complete. Engineering consultant is providing construction phase services.

Surface Water Treatment Plant – Design is complete. Engineering consultant is providing construction phase services.

High Service Pump Station and Ground Storage Tanks – Design is complete. Engineering consultant is providing construction phase services.

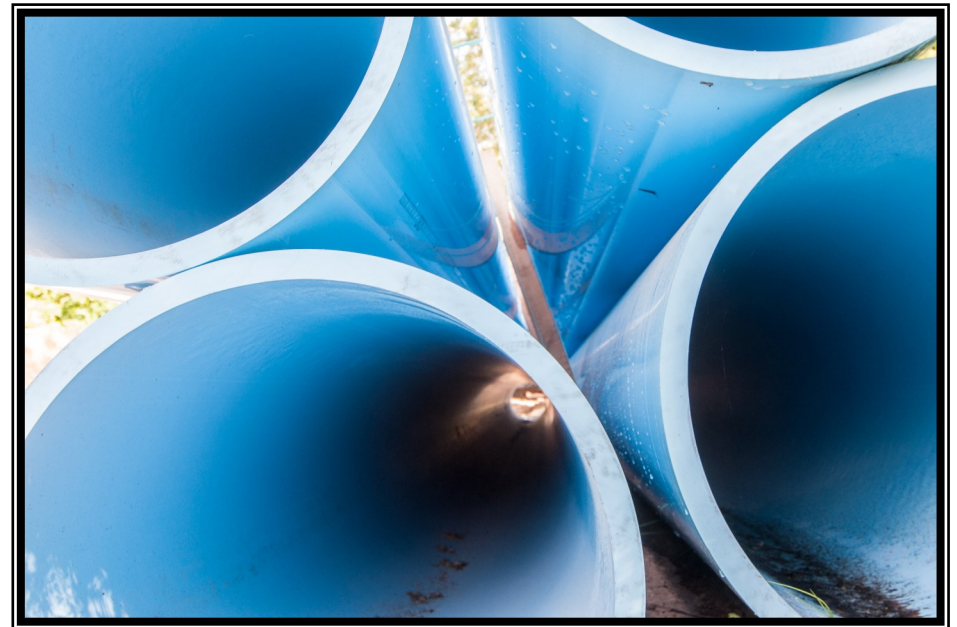
Construction Administration and Inspection (CA&I) – The CA&I consultant for the SWF is currently working with the CMAR and SJRA staff to review submittals and RFI's, and provide constant field monitoring and inspection of the systems being installed.

Construction Materials Testing Consultant (CMT) - The CMT consultant for the SWF is currently working with the CMAR and CA&I staff to perform industry standard construction materials testing. Testing includes soil densities, compressive strength/properties of concrete placed; and welding, coatings and masonry testing.

Cathodic Protection - The cathodic protection consultant has completed their design effort for both the transmission line segments and the Surface Water Facilities and is providing construction phase services.

2.2 STATE AGENCY COORDINATION

There were no State agency coordination activities for the month of June.

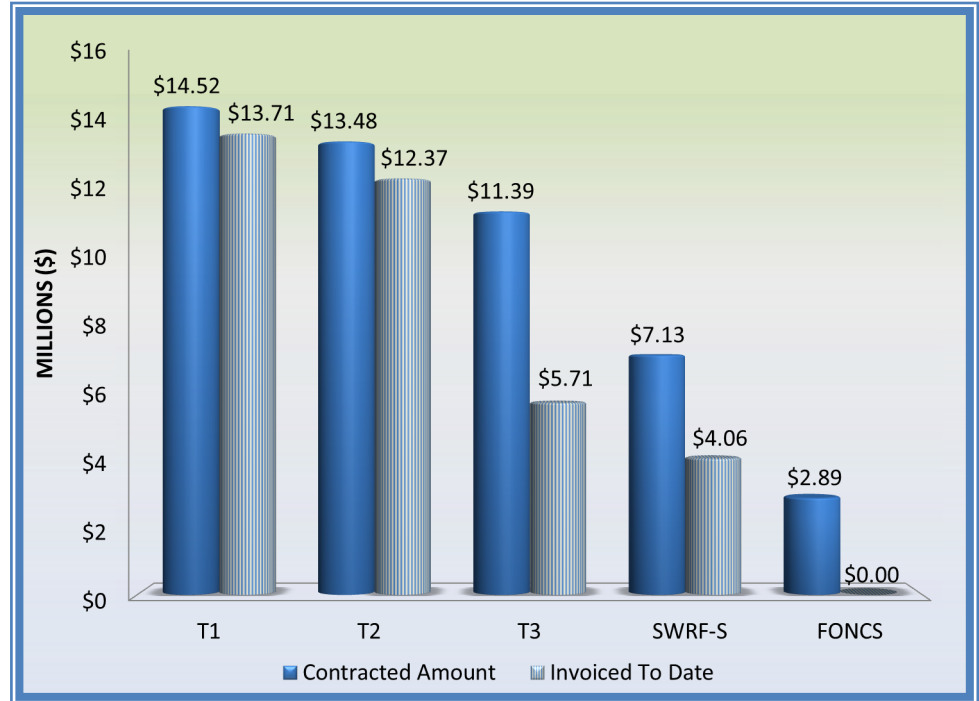


Staked PVC pipe along Transmission Line Segment W3A

2.0 PROJECT ACTIVITIES (CONTINUED)

2.3 SURFACE WATER TRANSMISSION SYSTEM PROJECT DATA

The month of June concluded with the installation of approximately 184,600 feet or 35 miles of various sized concrete coated steel pipe, PVC pipe and bar wrapped concrete mortar pipe along the majority of the transmission line segments. This represents approximately 69% of the total planned pipe to be installed throughout Montgomery County by or before January 1, 2016. The following graphs and charts show the progress of Transmission Line Segments T1, T2, T3, W1A, W1B, W2A, W2B, W3A, W3B, W4, C1A, C1B, C2, C3, C4, Surface Water Transmission North Water Receiving Facilities (SWRF-N), Surface Water Transmission South Water Receiving Facilities (SWRF-S), Standpipe and Fiber Optics Network Communication System (FONCS) thus far.



Surface Water Transmission System Total Progress To Date	
Total Contracted Amount	\$149,140,448.22
Total Invoiced To Date	\$97,147,835.39
Total % Complete Based on Invoice Amount	65%

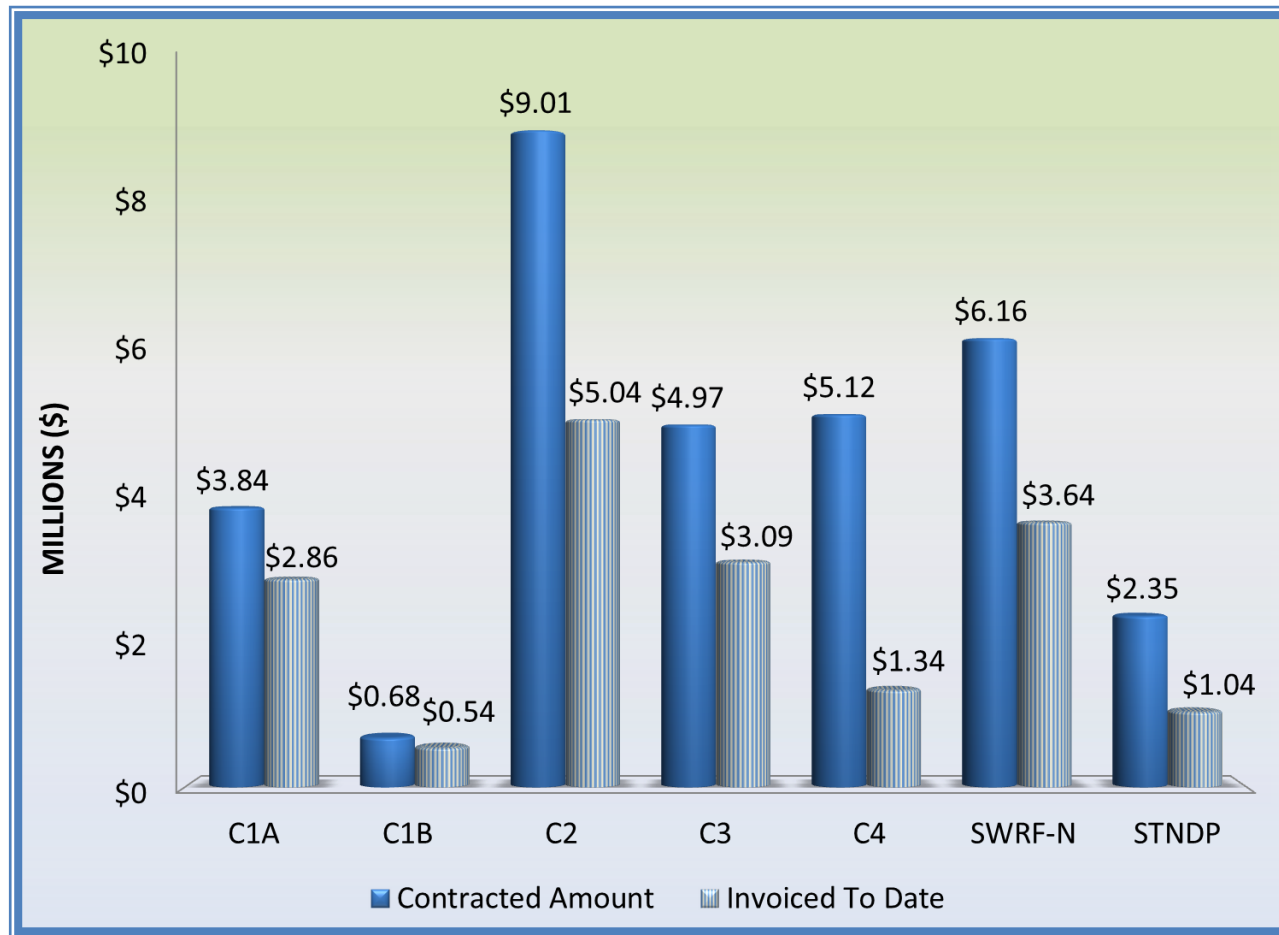
Segment	T1	T2	T3	SWRF-S	FONCS
Contracted Amount	\$14,521,937.14	\$13,475,718.33	\$11,393,193.97	\$7,127,383.00	\$2,885,432.35
Invoiced To Date	\$13,709,649.14	\$12,373,890.10	\$5,714,067.95	\$4,057,446.17	\$0.00
% Complete	94%	92%	50%	57%	0%

2.0 PROJECT ACTIVITIES (CONTINUED)



Segment	W1A	W1B	W2A	W2B	W3A	W3B	W4
Contracted Amount	\$8,222,000.50	\$7,213,544.50	\$16,340,258.02	\$16,161,600.00	\$7,880,207.50	\$8,124,485.50	\$3,656,604.23
Invoiced To Date	\$6,816,445.26	\$6,533,886.35	\$10,661,520.26	\$13,701,620.78	\$1,012,077.34	\$1,892,652.83	\$3,124,673.65
% Complete	83%	91%	65%	85%	13%	23%	85%

2.0 PROJECT ACTIVITIES (CONTINUED)



Segment	C1A	C1B	C2	C3	C4	SWRF-N	STANDPIPE
Contracted Amount	\$3,837,683.40	\$683,491.53	\$9,014,837.00	\$4,972,314.80	\$5,115,396.90	\$6,160,184.55	\$2,354,175.00
Invoiced To Date	\$2,857,514.13	\$544,939.60	\$5,044,816.43	\$3,092,988.59	\$1,336,137.10	\$3,636,290.26	\$1,037,219.45
% Complete	75%	100%	56%	62%	26%	59%	44%

2.0 PROJECT ACTIVITIES (CONTINUED)

2.4 SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

Significant progress continues to be made each month with regard to pipe installation on each of the fifteen Surface Water Transmission Line Segments. The chart below represents the overall pipe installation statistics through the month of June.

Transmission Line System Pipe Installation Statistics to Date	
Total Piping Installed to Date	35 miles
Total % of Pipe Installed to Date	69%

Segment T1 - Contractor continues to perform site restoration along McCaleb Road and began pressure testing the 60-inch concrete coated steel pipe. Approximately 20,514 feet of 60-inch concrete coated steel pipe has been installed through this month. (See Exhibit 11, Page 44)

Segment T2 - Contractor continues site restoration along Fish Creek Thoroughfare and began pressure testing the 54-inch concrete coated steel pipe. Approximately 23,475 feet of concrete coated steel pipe has been installed through this month. (See Exhibit 11, Page 46)

Segment T3 - Contractor continued utility coordination along Fish Creek Thoroughfare and began tunneling operations along FM 2978 and FM 1488. Approximately 9,995 feet of 54-inch concrete coated steel pipe along Fish Creek Thoroughfare has been installed through this month. (See Exhibit 11, Page 48)

Segment W1A - Contractor continued tunneling and open-cut installation of 48-inch concrete coated steel pipe, 54-inch steel pipe, and fiber optic conduit along Research Forest Drive. Concrete pavement restoration continues along Research Forest Drive. Approximately 22,020 feet of 48-inch concrete coated steel and 16-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 50)

Segment W1B - Contractor continued site restoration along Research Forest Drive. Hydrostatic pressure testing of waterline segment continued and testing of Fiber Optic Conduit began. Approximately 17,122 feet of 48-inch and 42-inch concrete coated steel pipe and 20-inch and 16-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 52)

Segment W2A - Contractor continued installation of 42-inch concrete coated steel pipe along Research Forest Drive in the accelerated area near The Woodlands High School. Approximately 14,731 feet of 30-inch and 20-inch PVC pipe and 42-inch concrete coated steel pipe has been installed through this month. (See Exhibit 11, Page 54)

Segment W2B - Contractor continued concrete pavement restoration along Grogan's Mill and trenchless installation at Waterway crossing. Approximately 13,887 feet of 30-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 56)

Segment W3A - Contractor began trenchless and open-cut installation of 20-inch and 24-inch PVC pipe along Grogan's Mill. Traffic switch along Grogan's Mill has taken place. Approximately 1,890 feet of 20-inch and 24-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 58).

Segment W3B - Contractor continued trenchless installation of 16-inch PVC pipe along Montgomery County Drainage District No. 6 right-of-way and Kinder Morgan easement. Approximately 2,547 feet of 16-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 60)

Segment W4 - Contractor began installing valves and related appurtenances, testing Fiber Optic Conduit and site restoration. Approximately 12,984 feet of 20-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 62)

2.0 PROJECT ACTIVITIES (CONTINUED)

Segment C1A - Contractor continued installation of 42-inch bar wrapped concrete mortar pipe along GRP Access Road. Approximately 8,302 feet of 42-inch wrapped concrete mortar pipe has been installed through this month. (See Exhibit 11, Page 64)

Segment C1B - Contractor completed the Substantial Completion Punch List items and anticipates a final completion walkthrough in July. 100% pipe installation totaling 2,455 feet of 16-inch PVC pipe was completed in February.

Segment C2 - Contractor continued installation of 30-inch and 36-inch concrete coated steel pipe and fiber optic conduit along Entergy easement and continued trenchless installation across League Line Road. Approximately 15,738 feet of 30-inch concrete coated steel pipe, 16-inch and 12-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 67)

Segment C3 - Contractor began open-cut installation of 20-inch PVC pipe along Silver Springs Road adjacent to Girl Scouts and UPRR properties. Approximately 14,929 feet of 20-inch and 16-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 69)

Segment C4 - Contractor continued installation of open cut installation of 24-inch PVC pipe along FM 830 and began I-45 crossing. Approximately 4,141 feet of 24-inch and 20-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 71)

Fiber Optic Communications System - Contractor continued initial critical submittals, ordering fiber optic cable and coordination efforts.

Standpipe - Contractor completed the first concrete slab placement and received the Standpipe tank panels. Standpipe construction is approximately 44% complete. (See Exhibit 12, Page 78)



Staging area along Entergy easement at Transmission Line Segment C2

2.0 PROJECT ACTIVITIES (CONTINUED)



Valve cover at Surface Water Receiving Facility-North in City of Conroe

SURFACE WATER RECEIVING FACILITIES

Surface Water Receiving Facilities–North - Contractor continued surface water piping at various receiving facilities, continued GST modifications, disinfection and cleaning at Conroe Water Plant Nos. 20 and 22. Installation of electrical conduit, electrical panels and instrumentation panels at Conroe Water Plant Nos. 20, 21 and 22 continued (See Exhibit 11, Page 73-74)

Surface Water Receiving Facilities—South - Contractor continued installation of storm sewer facilities at various receiving facilities, GST modifications, disinfection and cleaning at SJRA Water Plant No. 4; contractor completed these activities at SJRA Water Plant No. 2. Contractor began GST modifications at SJRA Water Plant No. 1 and continued installation of surface water piping at Southern Montgomery County MUD No. 2. (See Exhibit 11, Page 76)

2.5 SURFACE WATER FACILITY CONSTRUCTION PROGRESS AND PROJECT DATA

Raw Water Intake - The contractor completed the installation of Raw Water Pump (RWP) 01, 02 and 03 barrels and appurtenances. Contractor continued installation and welding of discharge piping and supports along bridge. The contractor continued installation of the metal roofing; unit heaters and air handling unit louvers; and supports and conduit for power, lighting, and instruments in the pump and mechanical rooms.

Surface Water Treatment Plant - Construction activities continue at the Operations, Chemical, Power Supply, Generator, Pretreatment, Membrane, Backwash Equalization, Process Water Recovery Basin, Belt Filter Press Building, Blower Building, and GAC facilities. Electrical power, data, and lighting conduit installation continues at the structures. Coatings, lightweight concrete roof topping placement, roofing, structure decking, and masonry are the main activities still occurring on the site this month. Process piping installation continues at the GAC. Membrane racks, pumps and process piping continues at the Membrane Building. Mechanical, plumbing, masonry and interior metal framing continue at the Operations Building.

High Service Pump Station - Installation continues for the discharge bay piping and grating. Also continuing is the installation of electrical conduit and cable support, electrical equipment, HVAC, plumbing, coatings and cathodic protection.

Ground Storage Tanks - No major work occurred at the Ground Storage Tanks this month.

Site Work - Large diameter yard piping, potable water piping, sanitary sewer, manholes, junction boxes, and drain line installation continue to progress. Electrical duct bank installation and encasement continue.

Name of Project	Contracted Amount	Invoiced To Date	% Complete Based on Invoice Amount
Surface Water Facilities	\$190,704,740	\$126,728,131.00	67%

3.0 PROCUREMENT

3.1 SOLICITATIONS

No advertisements for solicitations occurred this month.

3.2 CONTRACTS/AGREEMENTS/WORK ORDER APPROVALS

- Professional Services Agreement and Work Order No. 1 for Corrosion Protection for MUD 99 Water Receiving Facility

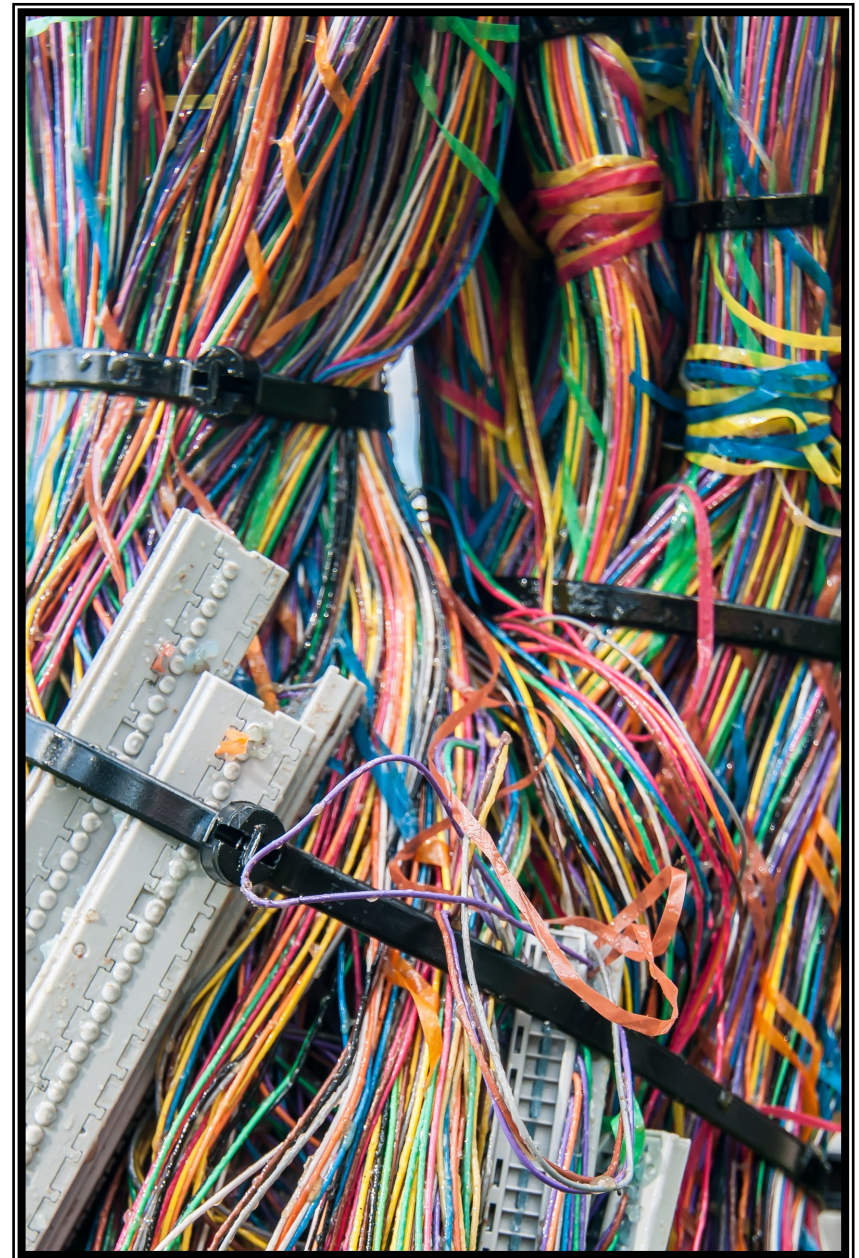
3.3 PROCESS AND PROCEDURES

The GRP Program will utilize traditional procurement methods for consultant services and alternative project delivery methods in the procurement of contractor services, if those services are required.

3.4 LOOK AHEAD

The following list provides a very general look ahead at known and anticipated GRP Program professional services and construction contractor solicitations, contract awards, agreements, and/or contract/work order amendments. Solicitations may be combined, modified, or canceled, or time frames may be modified as deemed necessary.

- Amendment No. 1 to Work Order No. 12 for revised scope of services for water blending for GRP Program
- Work Order No. 16 for Final Transient Analysis
- Agreement with The Woodlands Township for Reforestation
- Supplemental Agreement to GRP Contract with City of Conroe
- Supplemental Agreement to GRP Contract with Southern Montgomery County MUD



Miscellaneous communication wires

4.0 COST REPORT AND FINANCIAL CONSIDERATIONS

4.1 GRP PROGRAM AND GRP PROJECT CIP BUDGET(S)

Through this month the GRP Program remains under its construction cost estimate of \$500,000,000, and forecasts continue to indicate it will be completed under budget (see also subsection 4.6 and [Exhibit 2](#)). A summary of the GRP Program's CIP budget and cost considerations as reported to the GRP Review Committee and the SJRA Board of Directors is provided as attached [Exhibit 2](#).

A summary of the SJRA GRP Division's Fiscal Year 2014 operating budget (revenue and expenditures) for the month of June is provided as [Exhibit 8](#). The budget includes all normal and customary expenses for operating a utility-based, non-profit business, including debt service, and is developed annually for approval by the SJRA Board of Directors.

The SJRA Board of Directors has authorized bond funding for the GRP Program in the amount of \$552,250,358.49 (Net \$479,743,492.79); see also [Exhibit 4](#). This funding allows the SJRA to secure all of the resources required to perform professional services, construction services, and procure long lead time equipment during the design phase of the GRP Program.

4.2 FINANCIAL REPORTS

[Exhibit 5](#) illustrates the funding sources presently applied towards the GRP Program CIP budget.

- 1.) TWDB Water Infrastructure Fund (WIF)
- 2.) The sale of open market Special Project Revenue Bonds, Series 2011
- 3.) TWDB Dfund, Series 2011A
- 4.) TWDB Dfund, Series 2012
- 5.) TWDB Dfund, Series 2012A
- 6.) TWDB Dfund, Series 2013
- 7.) Operating Cash

Contracted commitments are summarized below in Table 4.1 for the month of June. The GRP Program's funding and forecasted expenditures are further detailed in attached [Exhibits 2, 3 and 4](#).

Please note that financial reports do not include investment income.

4.3 INVOICES/APPLICATIONS FOR PAYMENT

The table below represents the GRP Program Consultant Invoices and/or Construction Contractor Applications for Payment paid through the end of the report month (Item F).

Table 4.1 - GRP Program Funding and Contracted Commitments Summary			
	Previous 5/31/2014	June 2014 Activity	Year to Date (Thru 6/30/14)
A. Approved Funding	552,339,856.78	294,000.00	552,633,856.78
B. Available Funding After Costs	479,835,520.16	294,000.00	480,129,520.16
C. Approved Contracts			
Phase I	465,061,173.38	0	465,061,173.38
Extensions	751,769.00	20,500.00	772,269.00
D. Project Close Out			
Phase I	(807,947.07)	(62,996.82)	(870,943.89)
Extensions	0	0	0
E. Uncontracted Funding	14,830,524.85	336,496.82	15,167,021.67
F. Invoices Paid *			
Phase I	271,326,201.09	21,457,842.71	292,784,043.80
Extensions	6,849.80	66,057.51	72,907.31
G. Remaining Funds *	208,502,469.27	(21,229,900.22)	187,272,569.05

*Invoices Paid -Figures reflect actual funds paid out as of period end dates noted.

*Remaining Funds-Excludes net investment income



4.0 COST REPORT AND FINANCIAL CONSIDERATIONS (CONTINUED)

4.4 CONTRACT AMENDMENTS AND CHANGE ORDERS

Each of the GRP Program contracts, agreements and work orders listed in Section 3.2 were presented at the GRP Review Committee and the SJRA Board of Directors meetings this month. The following items were authorized by the SJRA Board of Directors for execution by the SJRA General Manager.

- No contract amendments or change orders were presented to the SJRA Board of Directors this month

4.5 CLAIMS

If and when claims are received, they will be addressed by the GRP Program Team.

4.6 CIP CASH FLOW

The GRP Program CIP cash flow through calendar year 2015 reflects known expenditures through this month as seen in Table 4.1. Estimates for future expenditures are included in [Exhibit 2](#). All active and currently identified future GRP Program projects and initiatives are included in the cash flow. A graph of forecasted monthly expenditures from the referenced cash flow is attached as [Exhibit 3](#).

4.7 CIP BUDGET ESTIMATES AT COMPLETION

4.7.1 GRP Program

The **total gross funds** (including capitalized interest) required to execute Phase I of the GRP Program are currently estimated at \$564,335,358.49. Additionally, all current GRP Program contracts, including their respective SJRA Board of Director's approved budgeted amounts are listed in [Exhibit 6](#).

4.7.2 GRP Projects

The GRP Program projects remained within their approved contract budgets this month. [Exhibit 6](#) indicates each active GRP Program project and GRP Program contract.

4.8 LAND ACQUISITION

The GRP Program Team, with the support of its various land acquisition consultants, are in the final stages of acquiring land and easements necessary for the surface water transmission system. A total of fourteen easements involving two property owners still remain to be finalized. Negotiations to acquire the remaining easements are at or near final stages of completion. A cumulative summary of easement acquisition activity is provided in [Exhibit 7](#).



Top: Construction signage at Transmission Line Segment W2A

Bottom: Pump at Raw Water Intake and Pump Station at SWF

5.0 QUALITY ASSURANCE

5.1 FINAL DESIGN

Final design is complete for Surface Water Treatment Plant, Transmission Lines, Standpipe, Fiber Optic Communications Network, and Water Receiving Facilities. Design of permanent access road is underway and the site landscaping will occur in the future.

5.2 PRE-CONSTRUCTION

There were no pre-construction meetings held this month.

5.3 CONSTRUCTION

Quality Assurance efforts by SJRA construction inspectors, as well as the CA&I consultant continued this month on the SWF project. Virtually every building on the SWF project site is progressing timely toward meeting the established SWF substantial completion date. Quality Assurance efforts include regular visits to the project site to monitor and document observed progress. Similar Quality Assurance efforts by SJRA construction inspectors and the CM&I consultant continued this month on the transmission lines.



*Left: HVAC equipment at Operations Building at SWF
Above: Assembly of pipes at Granular Activated Carbon Building at SWF*

6.0 EXHIBITS

Exhibit 1—GRP Program Schedule

Exhibit 2—GRP Program Estimate-At-Completion

Exhibit 3—GRP Program Monthly Forecasted Expenditures

Exhibit 4—GRP Program Fund Data

Exhibit 5—Monthly GRP Program Funding Report

Exhibit 6—GRP Program Current Authorizations

Exhibit 7—Land Acquisition Summary

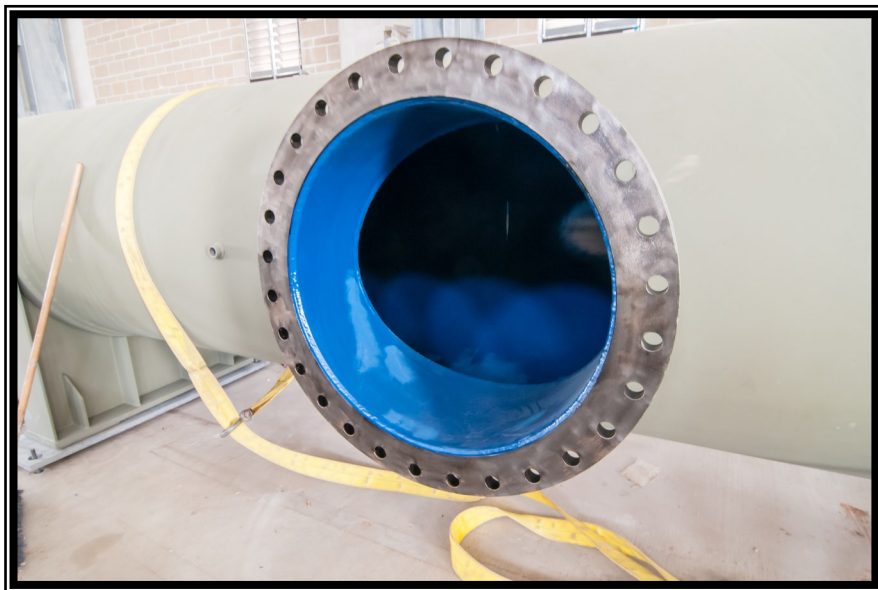
Exhibit 8—GRP Schedule of Revenues & Expenses—Actual & Budget

Exhibit 9—GRP Program Monthly Meeting Log

Exhibit 10—Surface Water Facilities (SWF) Construction Photos

Exhibit 11—Transmission Line System Construction Photos

Exhibit 12—Surface Water Standpipe Construction Photos



*Left: Pump at Raw Water Intake and Pump Station at SWF
Above: Construction activities at Transmission Line Segment W3A*

Exhibit 2

GRP Program Estimate-At-Completion As of June 30, 2014

SERVICES	ESTIMATE-AT-COMPLETION	
Pre-Engineering Phase Services	\$	4,702,612
(GRP Development, Environmental Studies, Pilot Plant, Surface Water Treatment Plant Site Survey)		
Engineering Phase Services	\$	43,881,899
(Planning, Preliminary Engineering, Final Engineering, Geotechnical, Survey, Metes & Bounds, Subsurface Utility Investigation, Environmental)		
Construction Phase Services	\$	28,824,257
(Engineering Services During Construction, Construction Management & Inspection [Transmission System], Construction Administration & Inspection [SWF], Material Testing)		
Construction	\$	388,244,571
(Surface Water Transmission System, Raw Water Intake and Pump Station, Surface Water Treatment Plant, High Service Pump Station and Ground Storage Tanks, Surface Water Receiving Facilities, Infrastructure, Buildings, Roadways, Site Security, Access Roadways)		
Transmission Segment C1 - Construction	\$	4,555,350
Transmission Segment C2 - Construction	\$	9,114,837
Transmission Segment C3 - Construction	\$	5,220,931
Transmission Segment C4 - Construction	\$	5,371,167
Transmission Segment T1 - Construction	\$	14,884,986
Transmission Segment T2 - Construction	\$	13,575,718
Transmission Segment T3 - Construction	\$	11,393,194
Transmission Segment W1 - Construction	\$	15,435,545
Transmission Segment W2 - Construction	\$	33,101,858
Transmission Segment W3 - Construction	\$	16,804,928
Transmission Segment W4 - Construction	\$	3,656,604
Transmission System Standpipe	\$	2,471,884
Receiving Facilities - Construction	\$	16,397,714
Surface Water Facilities CMAR (GMP)	\$	190,704,740
Transmission System Fiber Optic - Construction	\$	3,029,704
Permanent Access Roadway Construction	\$	7,505,000
Building No. 1; Access Road; Vegetative Buffer; Construction Materials Testing; SWF Site Vegetation Management; Sanitary Sewer/Access Rd. Relocation	\$	4,399,773
Other Offsite Construction (Transmission Line Utility Relocations, Receiving Facility Improvements)	\$	25,072,420
Non-Project Specific Contingency	\$	5,548,219
Program Management	\$	10,940,954
(GRP Program Management, Survey, Geotechnical, Transient, Corrosion, Legal Consultants)		
Land Acquisition	\$	13,908,302
(Legal, Appraisal, Title Research, Land Acquisition Consultants) ⁽¹⁾		
Total ⁽²⁾:	\$	490,502,595

⁽¹⁾ Includes revisions to land acquisition cost estimates, land cost, and recategorizing of contingency.

⁽²⁾ Bond issuance costs are not included.



Exhibit 3

GRP Program Monthly Forecasted Expenditures As of June 30, 2014

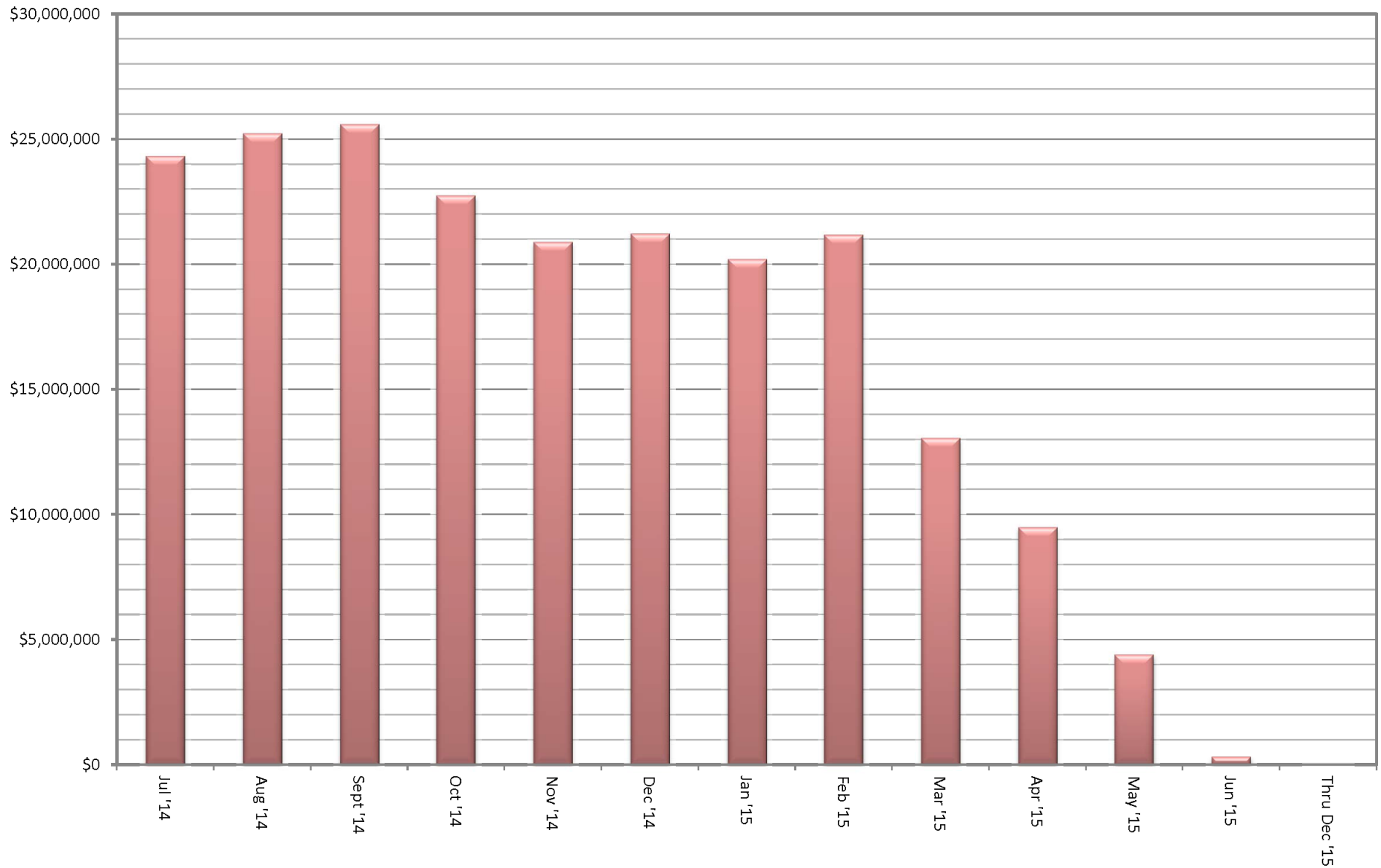


Exhibit 4

GRP Program Fund Data As of June 30, 2014

Funding Source	Amount Authorized by Board To-Date	Interest Rate	Bond Costs	Capitalized Interest	Debt Service Reserve Fund	Net Amount Currently Available	Pending Funding Source
TWDB WIF Bond Issue	\$ 21,500,000.00	.854% - 2.706%	\$ 470,337.08	\$ -	\$ -	\$ 21,029,662.92	
Open Market Bond Issue (Series 2011)	\$ 83,430,358.49	3% - 5.25%	\$ 2,049,764.39	\$ 7,858,241.52	\$ -	\$ 73,522,352.58	
TWDB DFund Series 2011A	\$ 67,470,000.00	1.22% - 4.97%	\$ 751,195.33	\$ 5,166,233.00	\$ 3,859,151.00	\$ 57,693,420.67	
TWDB DFund Series 2012	\$ 175,000,000.00	1.17% - 4.62%	\$ 971,769.13	\$ 12,869,175.00	\$ -	\$ 161,159,055.87	
TWDB DFund Series 2012A	\$ 165,000,000.00	1.26% - 4.62%	\$ 952,269.99	\$ 14,139,669.00	\$ 16,500,000.00	\$ 133,408,061.01	
TWDB Dfund Series 2013	\$ 39,850,000.00	4.50%	\$ 631,279.08	\$ 3,214,292.00	\$ 3,073,489.18	\$ 32,930,939.74	
Subtotal Approved Amounts	\$ 552,250,358.49		\$ 5,826,615.00	\$ 43,247,610.52	\$ 23,432,640.18	\$ 479,743,492.79	
Future Series 2015 (Est.)	\$ 12,085,000.00	4.54%	\$ 321,200.00	\$ 1,004,698.00	\$ -	\$ -	\$ 10,759,102.00
Subtotal Future Amounts	\$ 12,085,000.00		\$ 321,200.00	\$ 1,004,698.00	\$ -	\$ -	\$ 10,759,102.00
Totals	\$ 564,335,358.49		\$ 6,147,815.00	\$ 44,252,308.52	\$ 23,432,640.18	\$ 479,743,492.79	\$ 10,759,102.00

Notes:

1. These values do not include investment income.
2. Green items are estimates only.
3. Series 2011 bond costs include \$681,132.45 for bond insurance and \$459,709.50 for underwriter's discount.



Exhibit 5

Monthly GRP Program Funding Report

Fiscal Year 2014

Through June 30, 2014

	TWDB WIF Bond Issue	Open Market Bond Issue (Series 2011)	TWDB Dfund (Series 2011A)	TWDB Dfund (Series 2012)	TWDB Dfund (Series 2012A)	TWDB Dfund (Series 2013)	Operating (Cash)	Contributions from MUDs	Totals
A. Program Budget									
Bond Issue Amount	\$ 21,500,000.00	\$ 83,430,358.49	\$ 67,470,000.00	\$ 175,000,000.00	\$ 165,000,000.00	\$ 39,850,000.00			\$ 552,250,358.49
Operating Funds Commitment							\$ 89,498.29		\$ 89,498.29
Contributions from MUDs								\$ 294,000.00	\$ 294,000.00
Total Investment	\$ 21,500,000.00	\$ 83,430,358.49	\$ 67,470,000.00	\$ 175,000,000.00	\$ 165,000,000.00	\$ 39,850,000.00	\$ 89,498.29	\$ 294,000.00	\$ 552,633,856.78
B. Contracted Costs									
Phase I									
Contracts Completed	\$ 17,811,662.84	\$ 19,445,967.11	\$ 7,580,101.59	\$ -	\$ 611,352.00	\$ 3,721,564.70	\$ 14,407.80	\$ -	\$ 49,185,056.04
Current Contract Values	\$ 3,199,479.00	\$ 40,817,518.83	\$ 48,463,603.57	\$ 161,159,055.87	\$ 126,734,895.11	\$ 27,824,525.48	\$ 75,090.49	\$ -	\$ 408,274,168.35
Change Orders	\$ -	\$ 4,632,181.12	\$ 720,627.80	\$ -	\$ 2,249,140.07	\$ -	\$ -	\$ -	\$ 7,601,948.99
Project Close Out	\$ (315,554.78)	\$ (460,780.28)	\$ (29,956.96)	\$ -	\$ (64,626.72)	\$ (25.15)	\$ -	\$ -	\$ (870,943.89)
Phase I Total:	\$ 20,695,587.06	\$ 64,434,886.78	\$ 56,734,376.00	\$ 161,159,055.87	\$ 129,530,760.46	\$ 31,546,065.03	\$ 89,498.29	\$ -	\$ 464,190,229.49
Extensions									
Contracts Completed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Current Contract Values	\$ -	\$ 772,269.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 772,269.00
Change Orders	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Project Close Out	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Extensions Total:	\$ -	\$ 772,269.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 772,269.00
C. Expenditures									
Phase I									
Paid Previous Fiscal Years	\$ 20,445,604.55	\$ 41,810,521.31	\$ 13,516,375.89	\$ 35,745,194.60	\$ 2,741,339.59	\$ -	\$ -	\$ -	\$ 114,259,035.94
Paid Current Fiscal Year	\$ 143,562.07	\$ 6,488,322.66	\$ 21,168,061.39	\$ 63,618,503.68	\$ 77,790,504.66	\$ 9,292,684.02	\$ 23,369.38	\$ -	\$ 178,525,007.86
Phase I Total:	\$ 20,589,166.62	\$ 48,298,843.97	\$ 34,684,437.28	\$ 99,363,698.28	\$ 80,531,844.25	\$ 9,292,684.02	\$ 23,369.38	\$ -	\$ 292,784,043.80
Extensions									
Paid Previous Fiscal Years	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paid Current Fiscal Year	\$ -	\$ 72,907.31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,907.31
Extensions Total:	\$ -	\$ 72,907.31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,907.31
Issuance Costs	\$ 470,337.08	\$ 2,049,764.39	\$ 751,195.33	\$ 971,769.13	\$ 952,269.99	\$ 628,750.00	\$ -	\$ -	\$ 5,824,085.92
Debt Service Reserve Fund	\$ -	\$ -	\$ 3,859,151.00	\$ -	\$ 16,500,000.00	\$ 3,073,489.18	\$ -	\$ -	\$ 23,432,640.18
Capitalized Interest	\$ -	\$ 7,858,241.52	\$ 5,166,233.00	\$ 12,869,175.00	\$ 14,139,669.00	\$ 3,214,292.00	\$ -	\$ -	\$ 43,247,610.52
D. Remaining									
Uncontracted Funds	\$ 334,075.86	\$ 8,315,196.80	\$ 959,044.67	\$ (0.00)	\$ 3,877,300.55	\$ 1,387,403.79	\$ (0.00)	\$ 294,000.00	\$ 15,167,021.67
Funding Balance *	\$ 440,496.30	\$ 25,150,601.30	\$ 23,008,983.39	\$ 61,795,357.59	\$ 52,876,216.76	\$ 23,640,784.80	\$ 66,128.91	\$ 294,000.00	\$ 187,272,569.05

*Excluding net investment income



Exhibit 6

GRP Program Current Authorizations As of June 30, 2014

Surface Water Transmission System - Consultant Services

Project	Firm	Amount Authorized by Board
T1	Jones & Carter	\$ 2,202,879.75
T2	Klotz Associates	\$ 1,878,727.49
T3	Espey	\$ 1,892,322.47
W1	LAN	\$ 2,729,523.15
W2	Binkley & Barfield	\$ 3,252,056.39
W3	Cobb Fendley	\$ 4,017,012.00
W4	LJA	\$ 1,366,335.57
C1	Dannenbaum	\$ 961,635.69
C2	Schaumburg & Polk	\$ 2,213,465.12
C3	Kimley Horn	\$ 1,355,988.48
C4	RG Miller	\$ 605,208.04
Fiber Optic	EMA	\$ 832,533.04
WRFs	Malcom Pirnie/Arcadis	\$ 2,680,366.57
CM&I	Kellog Brown & Root	\$ 8,657,135.48
Subtotal - Surface Water Transmission System		\$ 34,645,189.24

Surface Water Facilities - Consultant Services

Project	Firm	Amount Authorized by Board
WTP	HDR Engineering	\$ 18,775,677.92
HSPS	AECOM	\$ 4,712,513.39
StandPipe	AECOM	\$ 192,235.38
RWI&PS	Freese & Nichols	\$ 3,954,773.35
CA&I	CDMSmith	\$ 5,348,633.00
Subtotal - Surface Water Facilities		\$ 32,983,833.04

Program Consultant Services & Other Projects

Project	Firm	Amount Authorized by Board
Program Management	Brown & Gay	\$ 10,695,226.55
Program Survey	Landtech	\$ 514,524.00
Program Geotechnical	Raba Kistner	\$ 145,260.00
Prog Transient Analyses	AECOM	\$ 4,904,748.77
Access Rd/Misc Service	ACES	\$ 857,366.25
SWF Surveying	S&V Surveying	\$ 66,875.00
Land Acq	KDM	\$ 431,592.70
Land Acq	PAS	\$ 1,413,334.88
Program Environmental	Halff Associates	\$ 1,063,698.87
Program Fiber Optics	EMA	\$ 832,533.04
Program Corrosion	V&A Consulting Engineers	\$ 866,676.00
Program Legal Services & Projects	Multiple	\$ 5,929,235.44
Subtotal - Program Consultant Services & Other Projects		\$ 27,721,071.50

Surface Water Transmission System Extensions - Consultant Services

Project	Firm	Amount Authorized by Board
MUD99/115	IDS Engineering Group	\$ 293,710.00
MUD99/115	Andrews & Kurth - x	\$ 100,000.00
MUD99/115	PAS - x	\$ 200,000.00
MUD99/115	Arcadis - x	\$ -
MUD99/115	V&A Consulting Engineers - x	\$ -
MUD99/115	Brown & Gay - x	\$ 121,216.00
Subtotal - Surface Water Transmission System Extensions		\$ 714,926.00



Exhibit 6 (con't)

GRP Program Current Authorizations As of June 30, 2014

Active or Completed Construction Contracts

Project	Firm	Amount Authorized by Board
GRP Bldg No. 1	Brookstone	\$ 2,008,673.00
Bldg No. 1/Aqua Tx CMT	Aviles Engineering	\$ 123,814.55
Landscape Buffer	Key-Scape Landscape	\$ 53,090.00
Temp Access Road	Lindsey Construction	\$ 977,583.60
Access Road CMT	Terracon Consultants	\$ 10,359.70
Access Road Overlay and Detention	AAA Asphalt	\$ 412,284.59
Access Road Landscape	TreeScapes	\$ 34,165.00
Aqua Texas Sewer	Randy Roan Construction	\$ 547,341.17
Bldg No. 1 Fiber Line	Preferred Technologies	\$ 231,157.56
Surface Water Plant (CMAR)	McCarthy	\$ 190,704,740.00
SWF CMT	Geotest	\$ 1,976,659.00
Transmission Sytem Utility Relocations	Various	\$ 2,125,610.96
Transmission System CMT (T3, W1, W2, W3, W4)	Aviles	\$ 1,601,330.00
Transmission System CMT (T1, T2, C1, C2, C3, C4)	Terracon	\$ 1,006,711.25
Transmission Segment T1	S.J. Louis Construction of Texas Ltd	\$ 14,521,937.14
Transmission Segment T2	Texas Sterling Construction Company	\$ 13,475,718.33
Transmission Segment T3	S.J. Louis Construction of Texas Ltd	\$ 11,393,193.97
Transmission Segment C1A	Garney Companies, Inc.	\$ 3,837,683.40
Transmission Segment C1B	E.P. Brady, LTD.	\$ 683,491.53
Transmission Segment C2	Garney Companies, Inc.	\$ 9,014,837.00
Transmission Segment C3	E.P. Brady, LTD.	\$ 4,972,314.80
Transmission Segment C4	BRH-Garver Construction, L.P.	\$ 5,115,396.90
Transmission Segment W1A	Huff & Mitchell, Inc.	\$ 8,222,000.50
Transmission Segment W1B	Texas Sterling Construction Company	\$ 7,213,544.50
Transmission Segment W2A	Texas Sterling Construction Company	\$ 16,340,258.02
Transmission Segment W2B	Texas Sterling Construction Company	\$ 16,161,600.00
Transmission Segment W3A	Huff & Mitchell, Inc.	\$ 7,880,207.50
Transmission Segment W3B	Garney Companies, Inc.	\$ 8,124,485.50
Transmission Segment W4	Huff & Mitchell, Inc.	\$ 3,656,604.23
Receiving Facilities South	CSA	\$ 7,127,383.00
Receiving Facilities North	Archer Western	\$ 6,160,184.55
Transmission SCADA - Fiber Optic Construction	Fisk Electric Company	\$ 2,885,432.35
Miscellaneous	Other Construction Contracts, Permits, Fees, etc.	\$ 305,163.05
Subtotal - Construction Contracts		\$ 348,904,956.65

Totals

	Amount Authorized by Board
Surface Water Transmission System - Consultant Services	\$ 34,645,189.24
Surface Water Facilities - Consultant Services	\$ 32,983,833.04
Program Consultant Services & Other Projects	\$ 27,721,071.50
Surface Water Transmission System Extensions - Consultant Services	\$ 714,926.00
Active or Completed Construction Contracts	\$ 348,904,956.65
Total	\$ 444,969,976.43



Exhibit 7

GRP Program Land Acquisition Summary As of June 30, 2014

Project	Anticipated Number of Easements to Acquire	Easements Acquired This Month	Total Easements Acquired and Filed	Total Easements Remaining to be Finalized ¹
Transmission System Segment T1	59	0	59	0
Transmission System Segment T2	0	0	0	0
Transmission System Segment T3	18	0	18	0
Transmission System Segment C1	19	0	19	0
Transmission System Segment C2	80	0	80	0
Transmission System Segment C3	34	0	21	13
Transmission System Segment C4	4	0	4	0
Transmission System Segment W1	32	0	32	0
Transmission System Segment W2	10	0	10	0
Transmission System Segment W3	177	0	176	1
Transmission System Segment W4	9	0	9	0
Totals:	442	0	428	14

¹ Note: Includes final cleanup of title on other legal issues, while right of entry may have been required



Exhibit 8

San Jacinto River Authority Groundwater Reduction Plan

Schedule of Revenues & Expenses—Actual and Budget

For the Ten Months Ending June 30 2014

	Jun	Fiscal Year To Date				Fiscal Budget	
	Actual	Actual	Budget	Variance	% Variance	Total Year Budget	Actual YTD % of Total Year Budget
OPERATING REVENUES							
GRP pumping fees	\$ 3,555,933	\$ 24,030,253	\$ 26,957,857	\$ (2,927,604)	(11%)	\$ 34,118,874	70%
TOTAL OPERATING REVENUES	\$ 3,555,933	\$ 24,030,253	\$ 26,957,857	\$ (2,927,604)	(11%)	\$ 34,118,874	70%
OPERATING EXPENSES							
Payroll & employee benefit expenses	\$ 241,578	\$ 2,334,528	\$ 3,779,781	\$ 1,445,254	38%	\$ 4,644,900	50%
Professional fees	57,090	415,446	674,230	258,784	38%	813,000	51%
Purchased & contracted services	11,954	99,343	199,893	100,551	50%	239,871	41%
Supplies, materials & utilities	39,389	3,384,218	3,663,208	278,989	8%	3,747,401	90%
Maintenance repairs, parts & rentals	2,049	13,196	14,800	1,604	11%	17,160	77%
General & administration	42,349	507,641	707,080	199,439	28%	850,563	60%
TOTAL OPERATING EXPENSES	\$ 394,410	\$ 6,754,372	\$ 9,038,992	\$ 2,284,621	25%	\$ 10,312,895	65%
NON-OPERATING REVENUES & EXPENSES							
Interest on investments	\$ 184,185	\$ 608,940	\$ 581,145	\$ 27,795	5%	\$ 696,936	87%
Other revenues	-	2,129	-	2,129	100%	-	0%
Interest expense	(1,787,500)	(17,775,638)	(11,704,570)	(6,071,067)	52%	(14,844,597)	120%
Capital contributions	294,000	294,000	-	294,000	100%	-	0%
TOTAL NON-OPERATING (EXCLUDING ITEMS NOT BUDGETED)	\$ (1,309,314)	\$ (16,870,569)	\$ (11,123,425)	\$ (5,747,143)	52%	\$ (14,147,661)	119%
NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)	\$ 1,852,210	\$ 405,312	\$ 6,795,439	\$ (6,390,127)	(94%)	\$ 9,658,318	4%
NON-OPERATING REVENUES & EXPENSES (NOT BUDGETED)							
Depreciation	\$ (25,868)	\$ (234,113)	\$ -	\$ (234,113)	100%	\$ -	0%
Amortized debt issuance expense	-	(500)	-	(500)	100%	-	0%
TOTAL NON-OPERATING (NOT BUDGETED)	\$ (25,868)	\$ (234,613)	\$ -	\$ (234,613)	100%	\$ -	0%
NET INCOME (LOSS) (BUDGETED AND NOT BUDGETED)	\$ 1,826,342	\$ 170,699	\$ 6,795,439	\$ (6,624,740)	(97%)	\$ 9,658,318	2%

*The Budget is a cash basis budget however the actual interest expense is accrued monthly. Seven months of 2012A Bond payments were funded by the bond issue and are reflected on the Balance Sheet in Restricted Assets Debt Service Funds, Investments. The Interest Expense appears over-budget due to not budgeting for the pre-funded bond payments.



Exhibit 8 (con't)

GRP Division

Clarification of Actual & Budget Variances For Ten Months Ending June 30, 2014

Category	YTD - Driver	June 2014	FYTD 2014
GRP Pumping Fees	Usage variance due to weather conditions.	(44)	(2,928)
Payroll and related expenses	Budgeted positions not filled as scheduled	123	1,445
Professional Fees	Professional fees less than budgeted.	13	259
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	8	101
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Fuel, office supplies, phones, recruiting and misc. expenses less than budgeted.	3	245
	Reservation Fee-COH 2013 Actuals	-	(123)
	Additional Water Supply	-	157
	Maintenance repairs, parts & rentals expense less than budgeted.	-	2
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	28	199
Non-Operating	Interest/Investment Income	124	28
	Other Revenues	2	2
	Bond interest expense	(218)	(6,071)
	Capital Contributions	294	294
	Depreciation expense	(26)	(234)
	Bond Issuance Cost Amort expense	-	(1)
		<u>307</u>	<u>(6,625)</u>



Exhibit 9

GRP Program Monthly Meeting Log For June 2014

Meeting	Subject of Meeting	Location	Date	Participants
GRP Review Committee Meeting	Board Agenda Items	G&A Building	6/23/2014	GRP Review Committee, SJRA Staff and General Public
Village of Cochran's Crossing Association Meeting	GRP Construction	Township Office	6/24/2014	SJRA Staff and Association Participants
SJRA Board of Directors Meeting	Board Agenda Items	G&A Building	6/26/2014	SJRA Board of Directors, SJRA Staff and General Public
CMAR Coordination Meeting	CMAR	GRP Building	Weekly	SJRA Staff, GRP Program Team and Consultant Team
Construction Administration and Inspection Meetings	CA&I	GRP Building	Weekly	SJRA Staff, GRP Program Team and CA&I Team
Water Receiving Facilities-South Progress Meeting	WRF-S	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Water Receiving Facilities-North Progress Meeting	WRF-N	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team



Exhibit 9 (con't)

GRP Program Monthly Meeting Log For June 2014

Meeting	Subject of Meeting	Location	Date	Participants
Segments W1A, W1B, W2A, W2B, W3A, W3B, and W4 Progress Meetings	Segments W1A, W1B, W2A, W2B, W3A, W3B and W4	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Segments T1 and T2 Progress Meetings	Segments T1 and T2	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Segment T3 Bi-Weekly Progress Meeting	Segment T3	GRP Building	Bi-Weekly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Segments C1A, C1B, C2, C3 and C4 Monthly Status Meetings	Segments C1A,C1B, C2, C3 and C4	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Standpipe Progress Meeting	Standpipe	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant
FONCS Monthly Progress Meetings	FONCS	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant
Surface Water Facility Progress Meeting	Surface Water Facilities	GRP Building	Bi-Monthly	SJRA Staff, CMAR, CA&I and Consultant Team



Surface Water Facilities Construction Photos



EXHIBIT 10 SWF Construction Photos



EXHIBIT 10 (con't) SWF Construction Photos



① Delivery, welding and installation of 48-inch pipe at Raw Water Intake and Pump Station

EXHIBIT 10 (con't) SWF Construction Photos



❶ 48-inch pipe installation at toe of dam at Raw Water Intake and Pump Station

EXHIBIT 10 (con't) SWF Construction Photos

Water Treatment Process Structures



② *Grating and sluice gate installation at the Pretreatment Building*

EXHIBIT 10 (con't) SWF Construction Photos

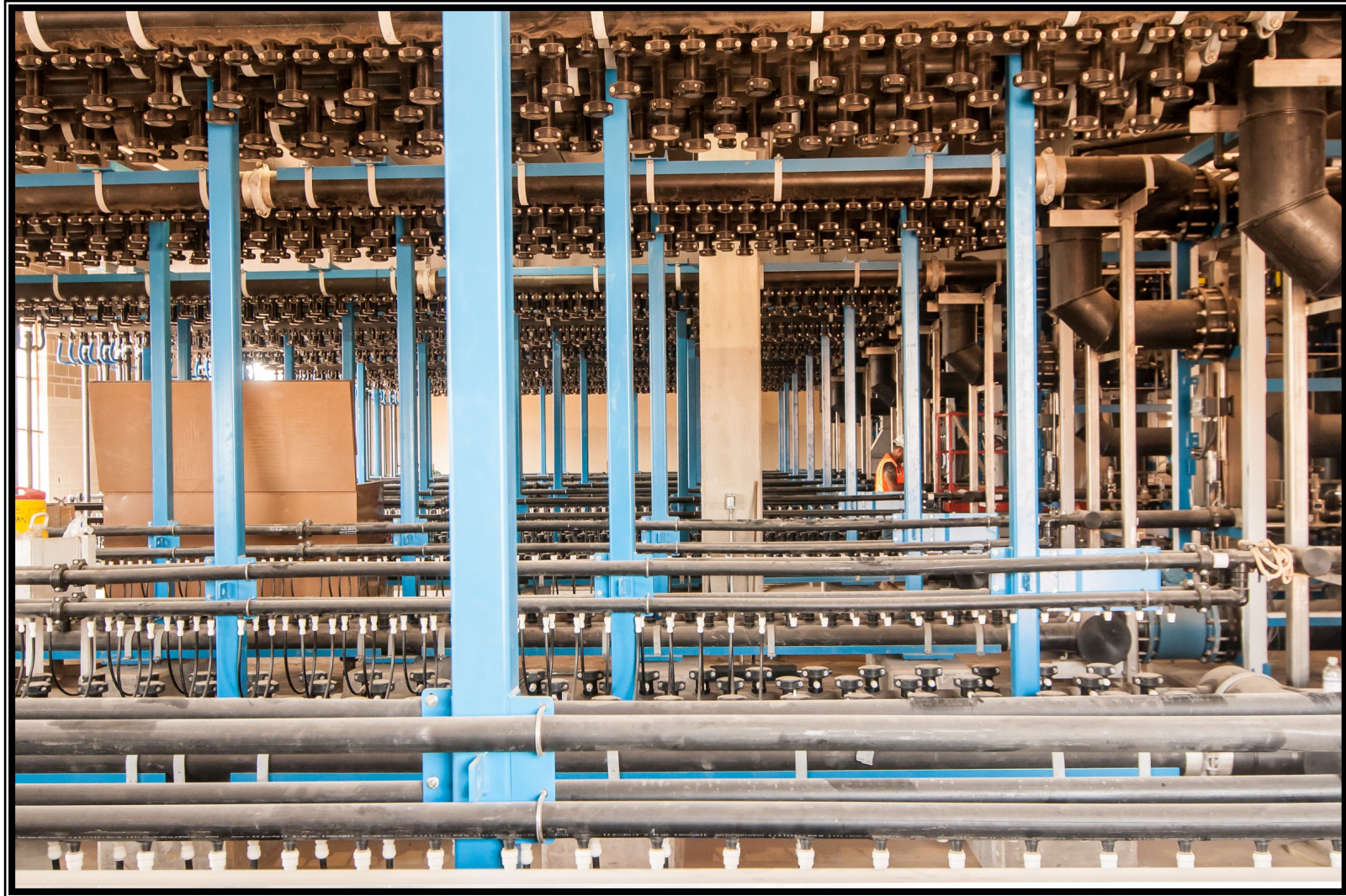
Water Treatment Process Structures



③ *Feed pump and piping installation at the Membrane Building*

EXHIBIT 10 (con't) SWF Construction Photos

Water Treatment Process Structures



3 *Membrane racks at the Membrane Building*

EXHIBIT 10 (con't) SWF Construction Photos

Water Treatment Process Structures



④ *Chemical tank and vent pipe installation at the Chemical Storage Facilities*

EXHIBIT 10 (con't) SWF Construction Photos

Finished Water Process Structures



⑤ *Installation of finished water discharge piping at the High Service Pump Station*

EXHIBIT 10 (con't) SWF Construction Photos

Finished Water Process Structures



⑤ *Installation of hydro-pneumatic pump at the High Service Pump Station*

EXHIBIT 10 (con't) SWF Construction Photos

Finished Water Process Structures



⑥ *Preparation of concrete deck placement at the Dewatering Building*

EXHIBIT 10 (con't) SWF Construction Photos

Process Residual Treatment and Disposal Structures



⑦ *Shoring for lauder installation at the Sludge Thickeners*

EXHIBIT 10 (con't) SWF Construction Photos

Process Residual Treatment Disposal Structures



⑧ *Sluice gate installation at the Backwash Equalization Basin*

EXHIBIT 10 (con't) SWF Construction Photos

Operational Structures



⑨ *Wall Framing Installation at the Operations Building*

Transmission Line System Construction Photos



EXHIBIT 11 Transmission Line System Construction Photos

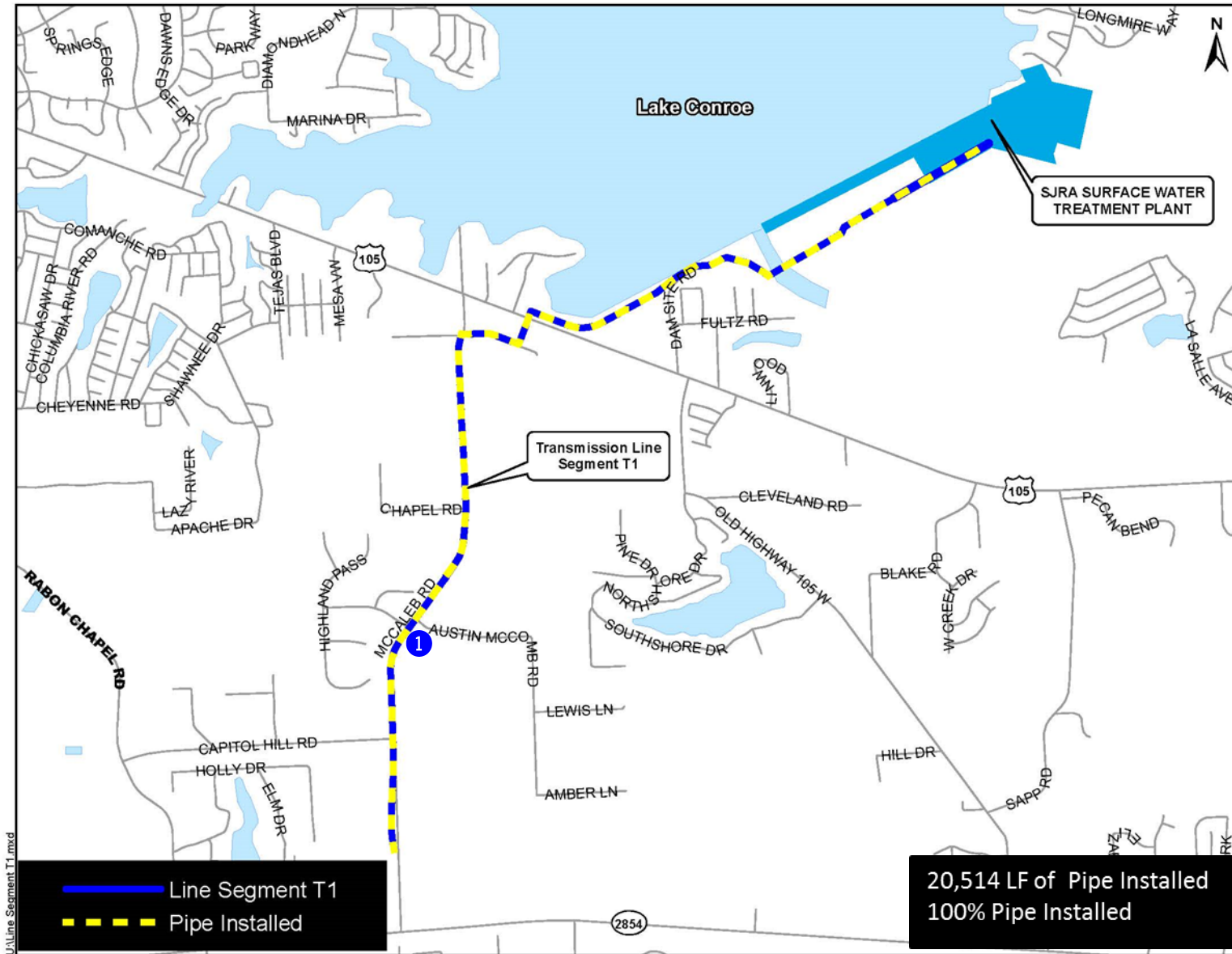


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment T1 - Pavement restoration along McCaleb Road at Highland Ranch Drive*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

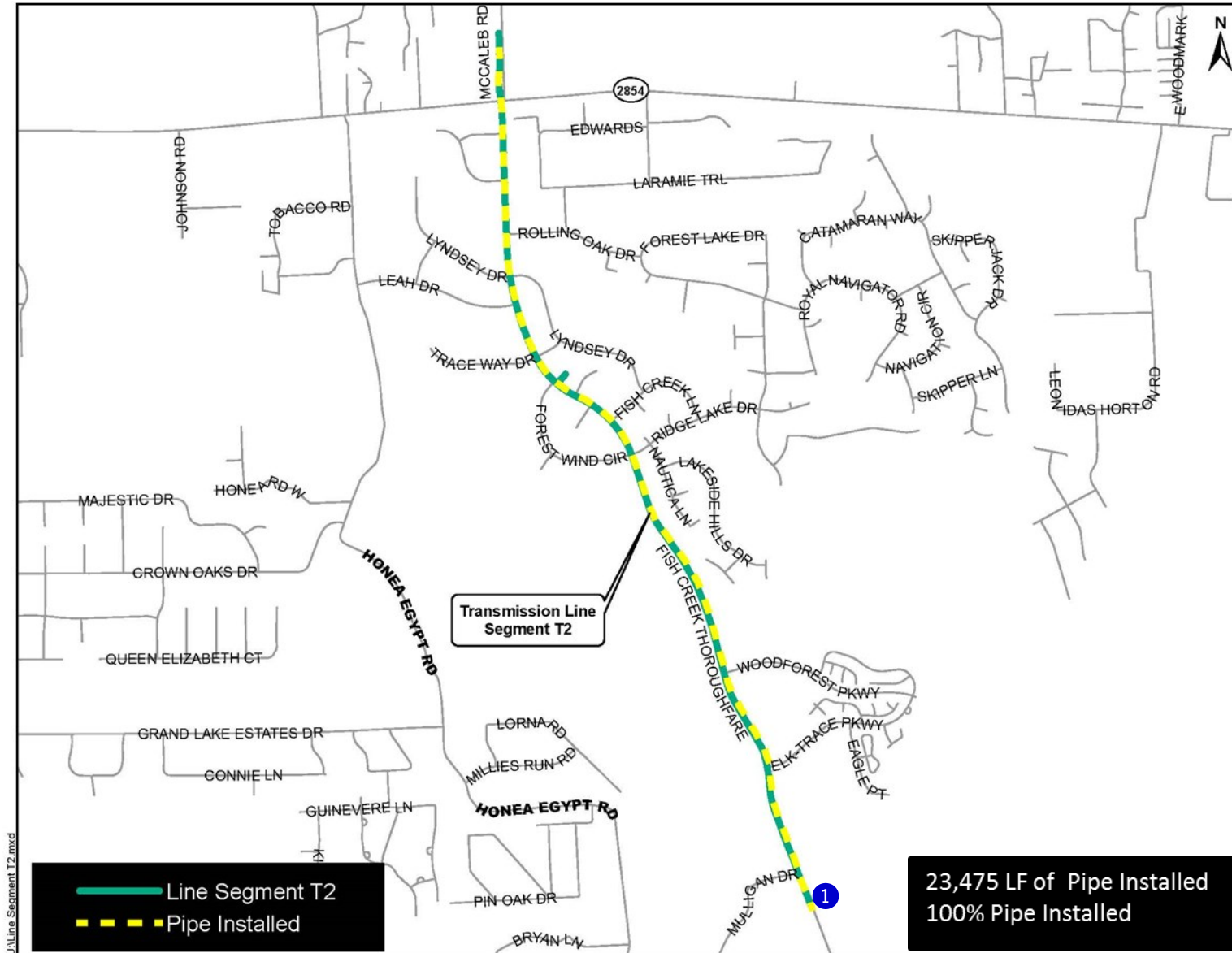


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment T2 - Asphalt pavement restoration along Fish Creek Thoroughfare*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

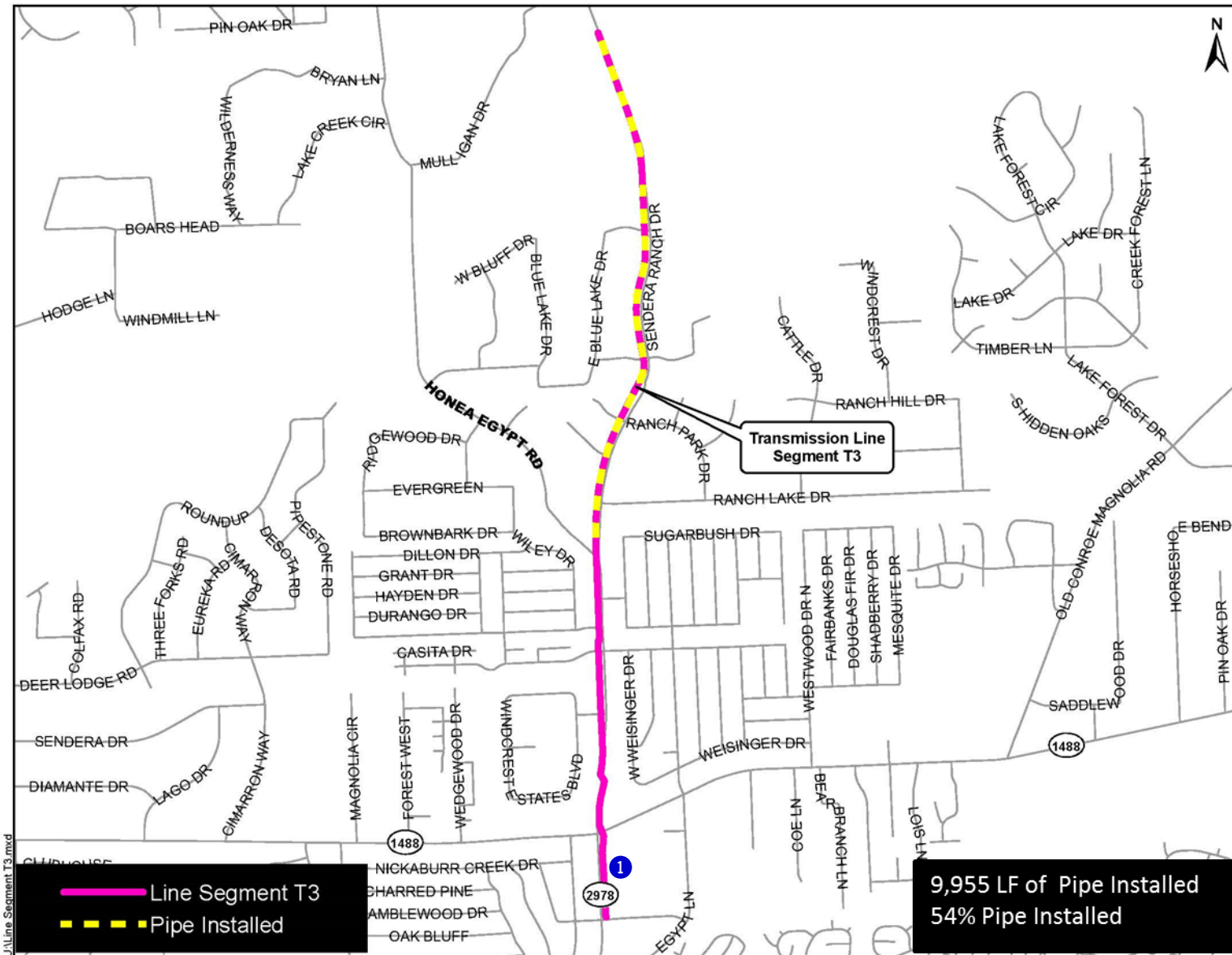


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① Segment T3—54-inch trenchless pipe installation along FM 2978

EXHIBIT 11 (con't) Transmission Line System Construction Photos

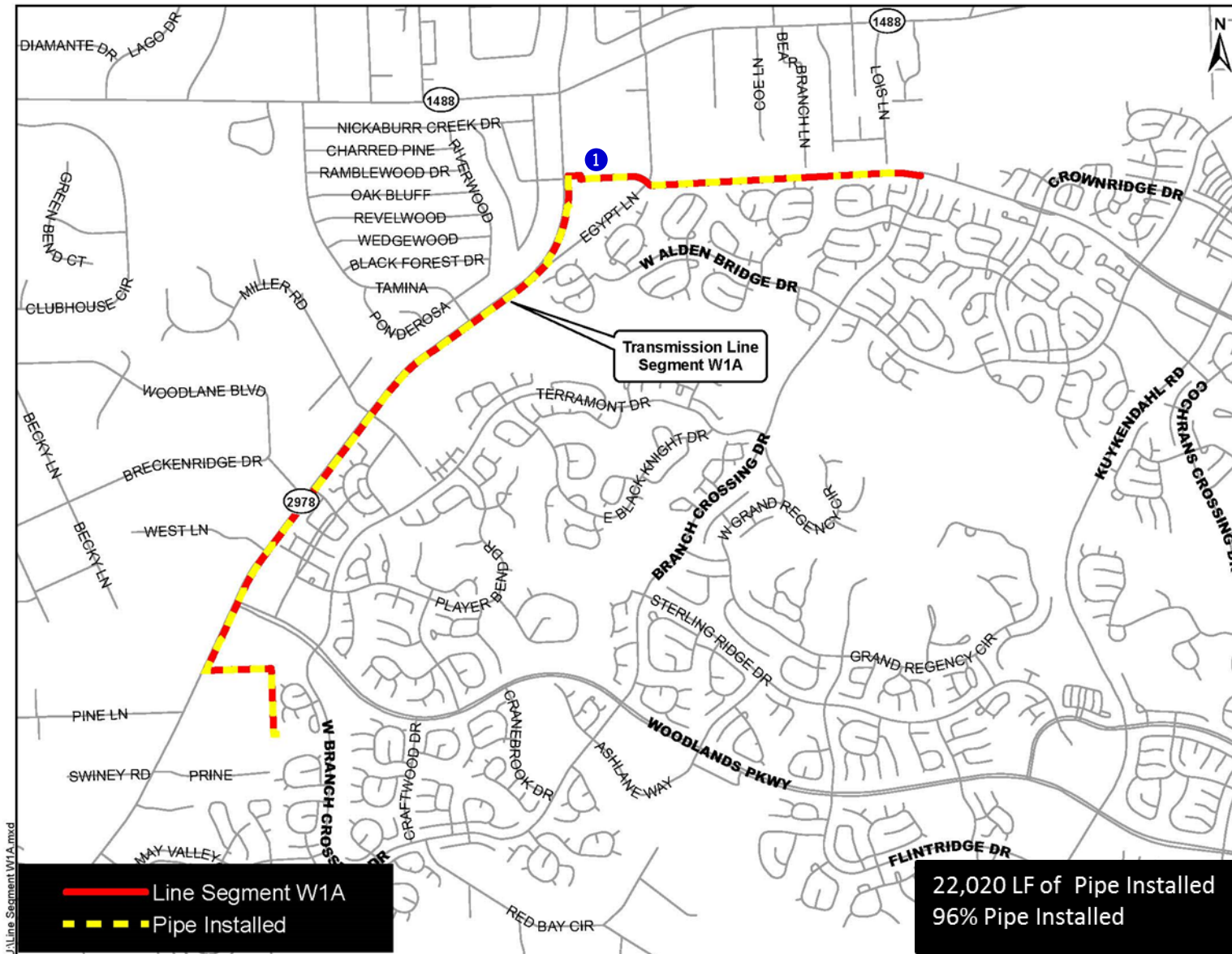


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① Segment W1A—48-inch open cut pipe installation along Research Forest Drive

EXHIBIT 11 (con't) Transmission Line System Construction Photos

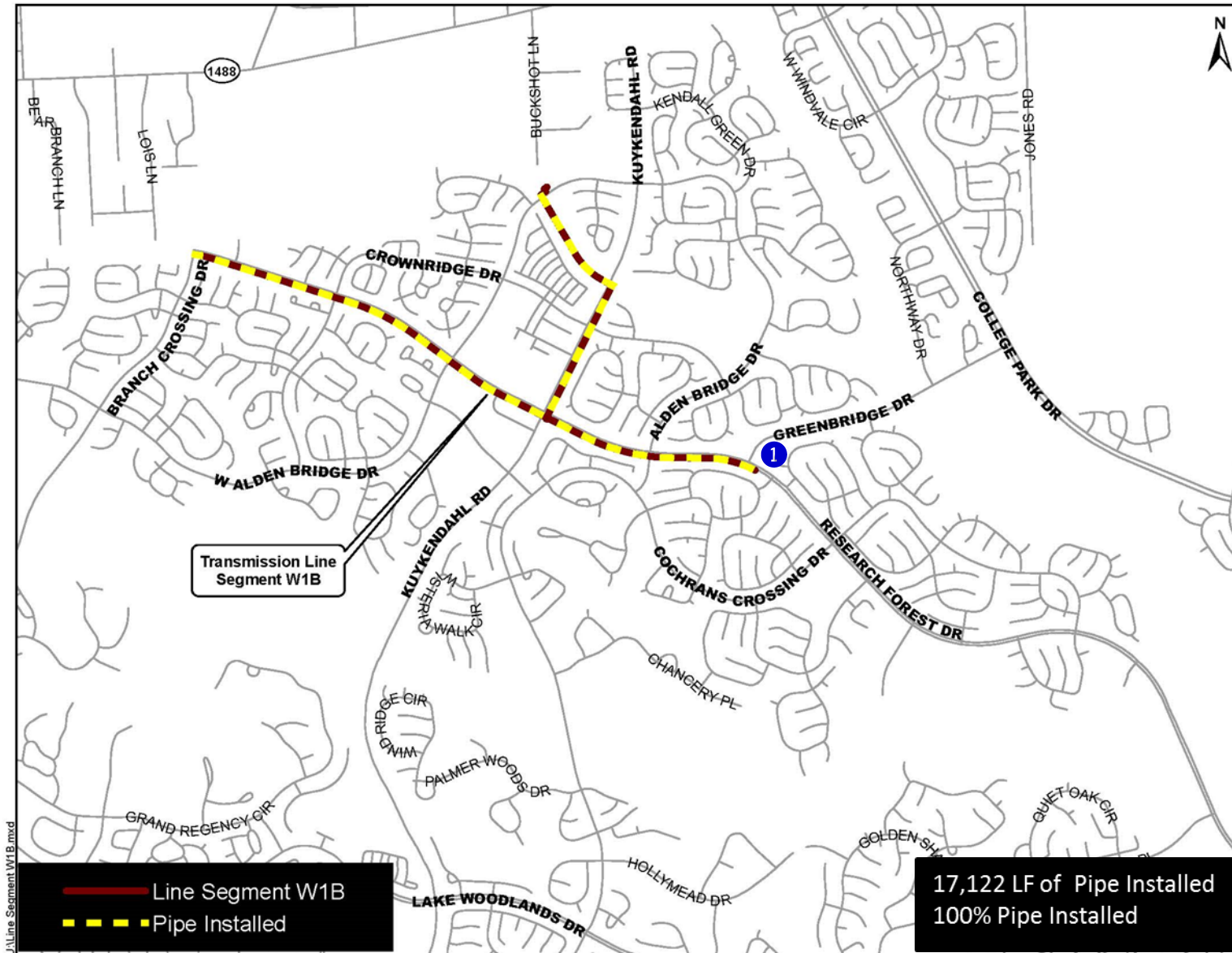


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment W1B - Completing manhole installation along Research Forest Drive*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

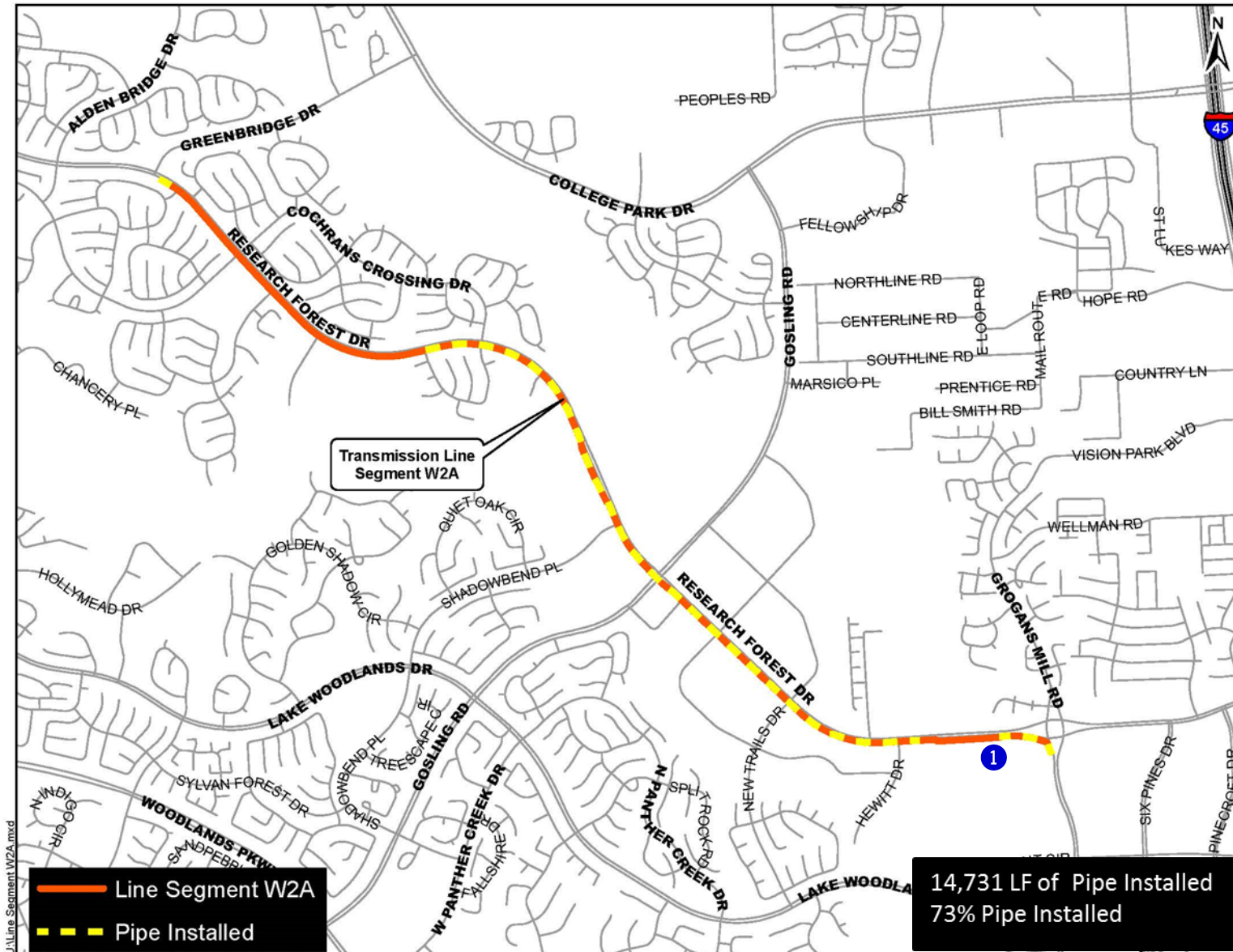


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① Segment W2A - Backfilling trench box for 42-inch pipe along Research Forest Drive



EXHIBIT 11 (con't) Transmission Line System Construction Photos

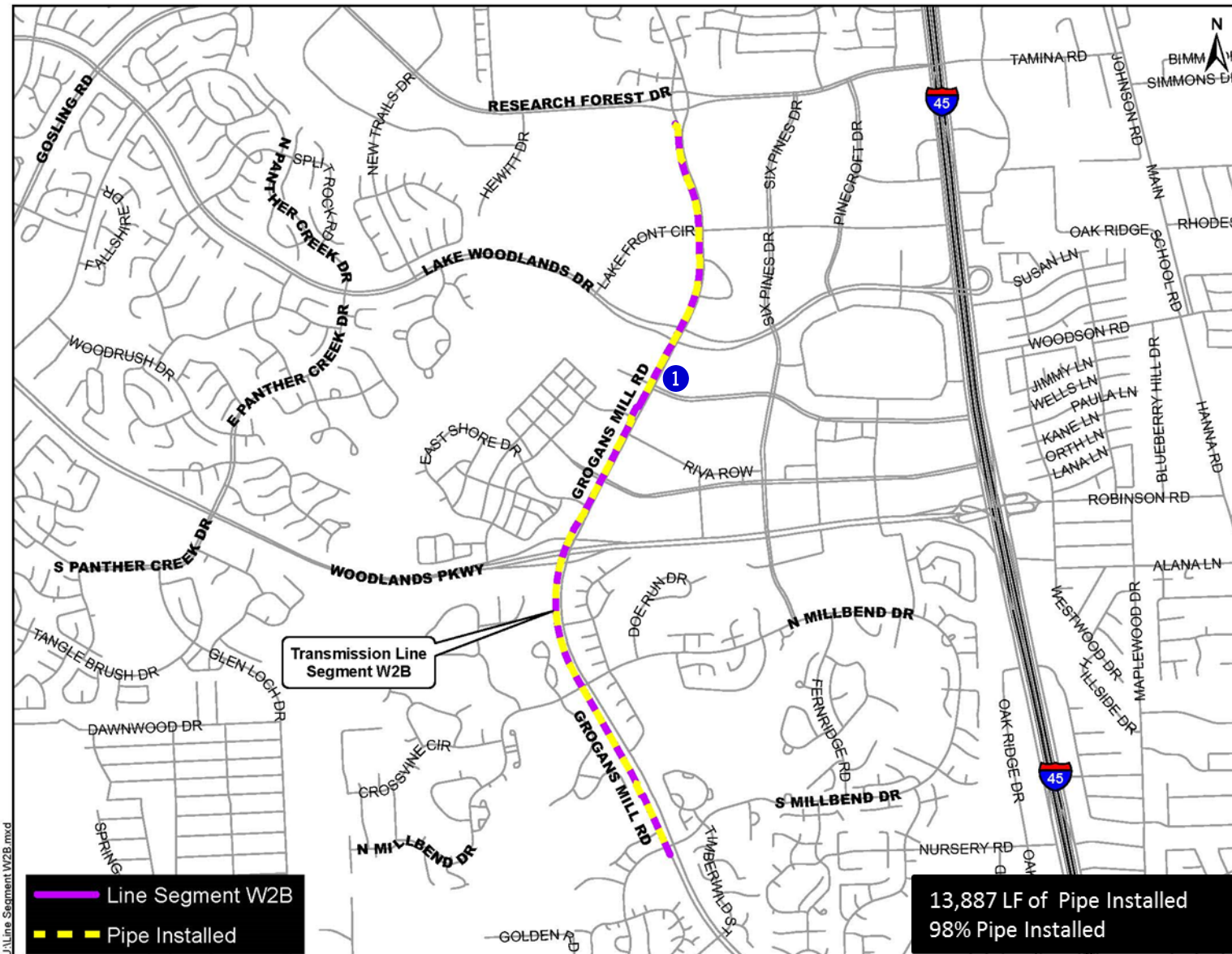


EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ *Segment W2B - Bore pit and tunneling bore machine installation for Woodlands Waterway crossing*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

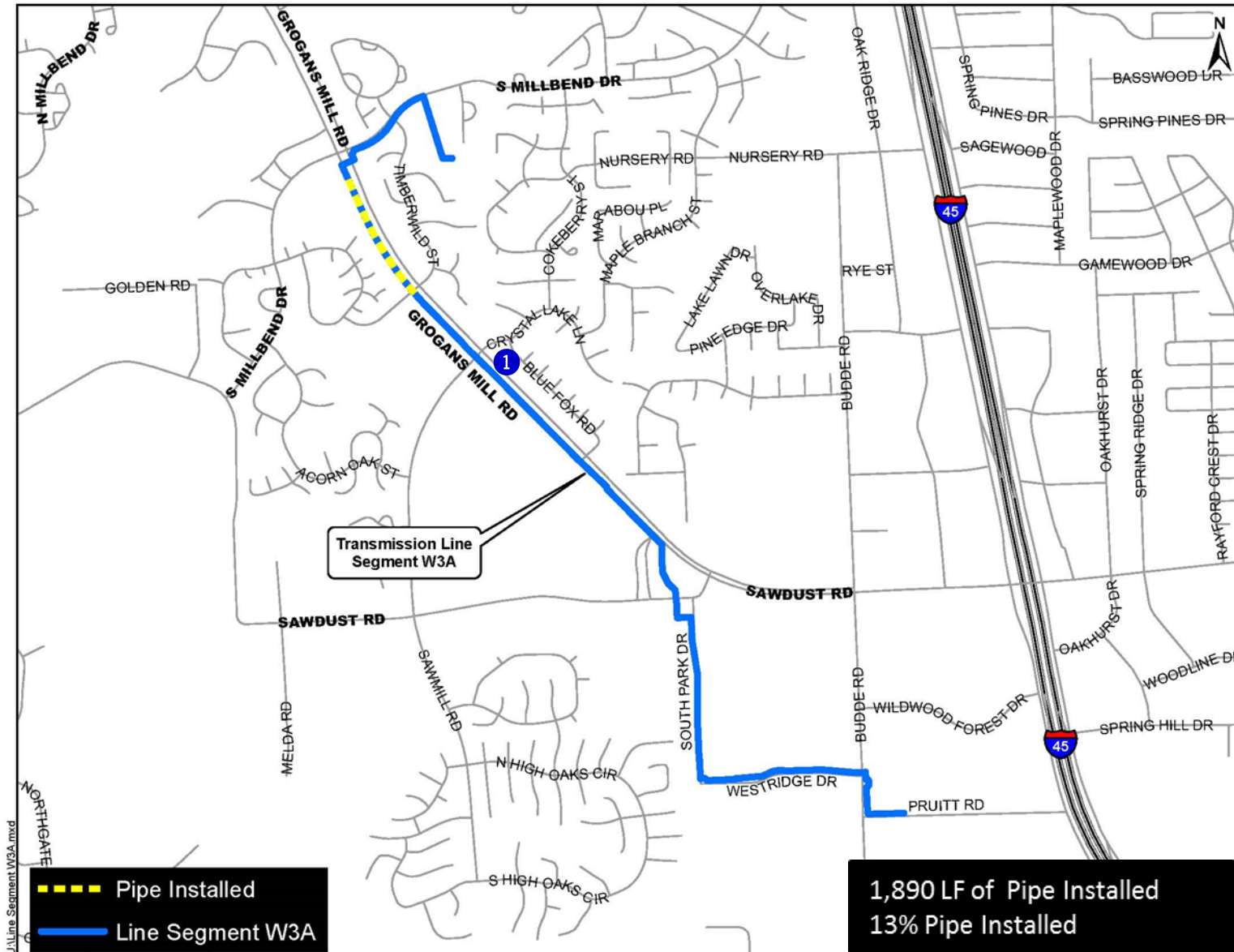


EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ *Segment W3A - Bore pit excavation for 24-inch trenchless pipe installation along Grogans Mill Road*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

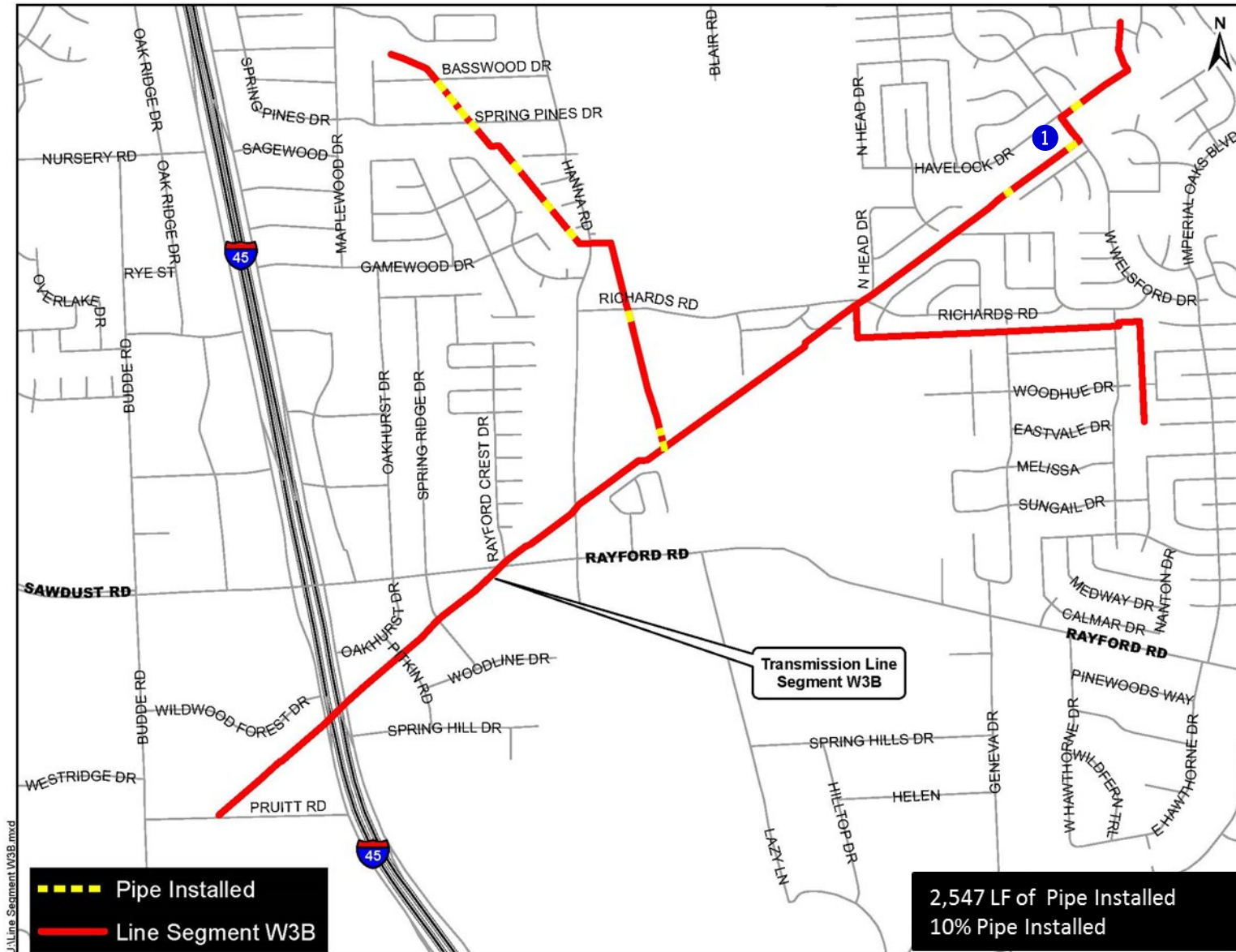


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment W3B— 12-inch trenchless pipe installation along Kinder Morgan corridor*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

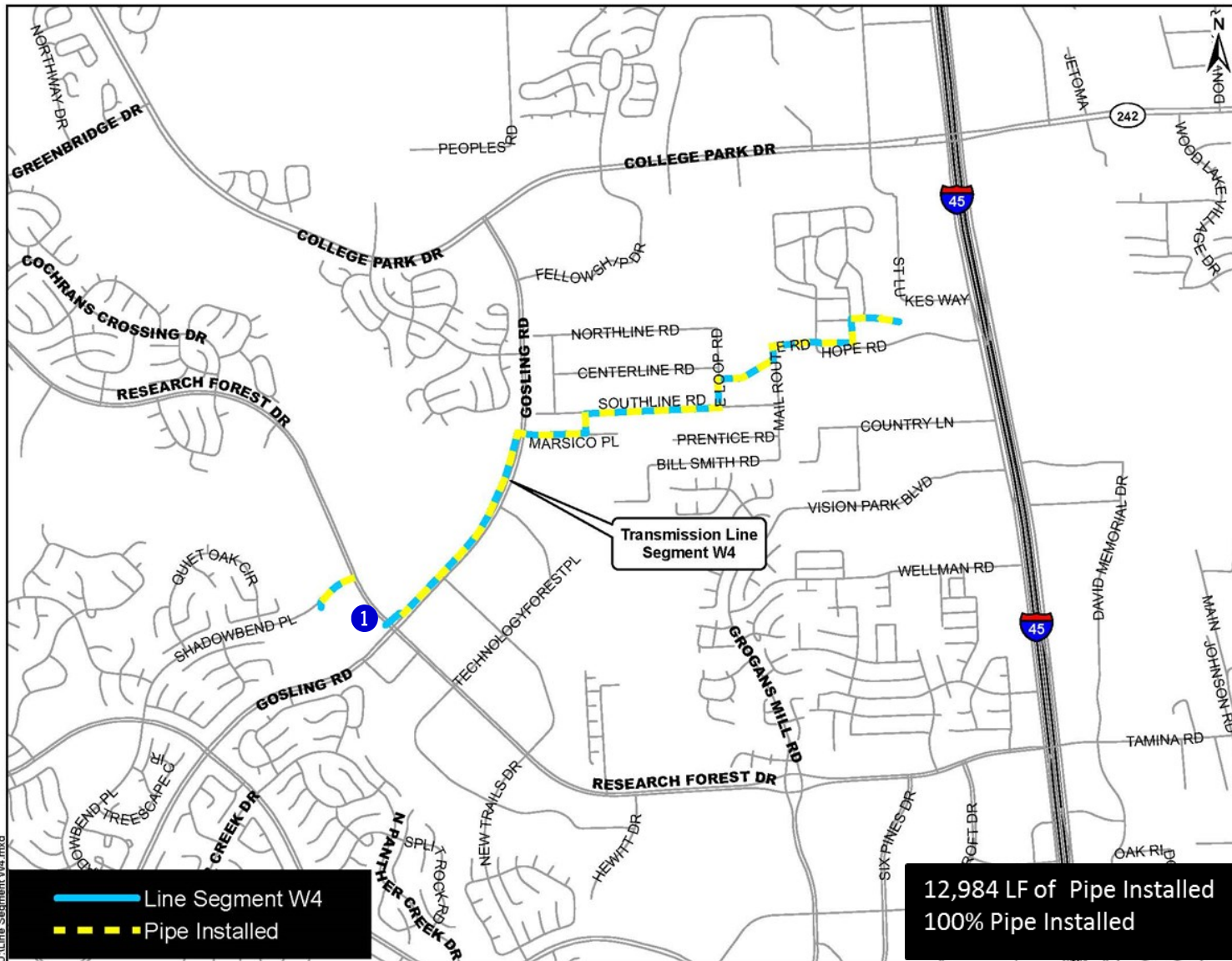


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment W4 - 24-inch pipe connection at Gosling Road and Research Forest Drive*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

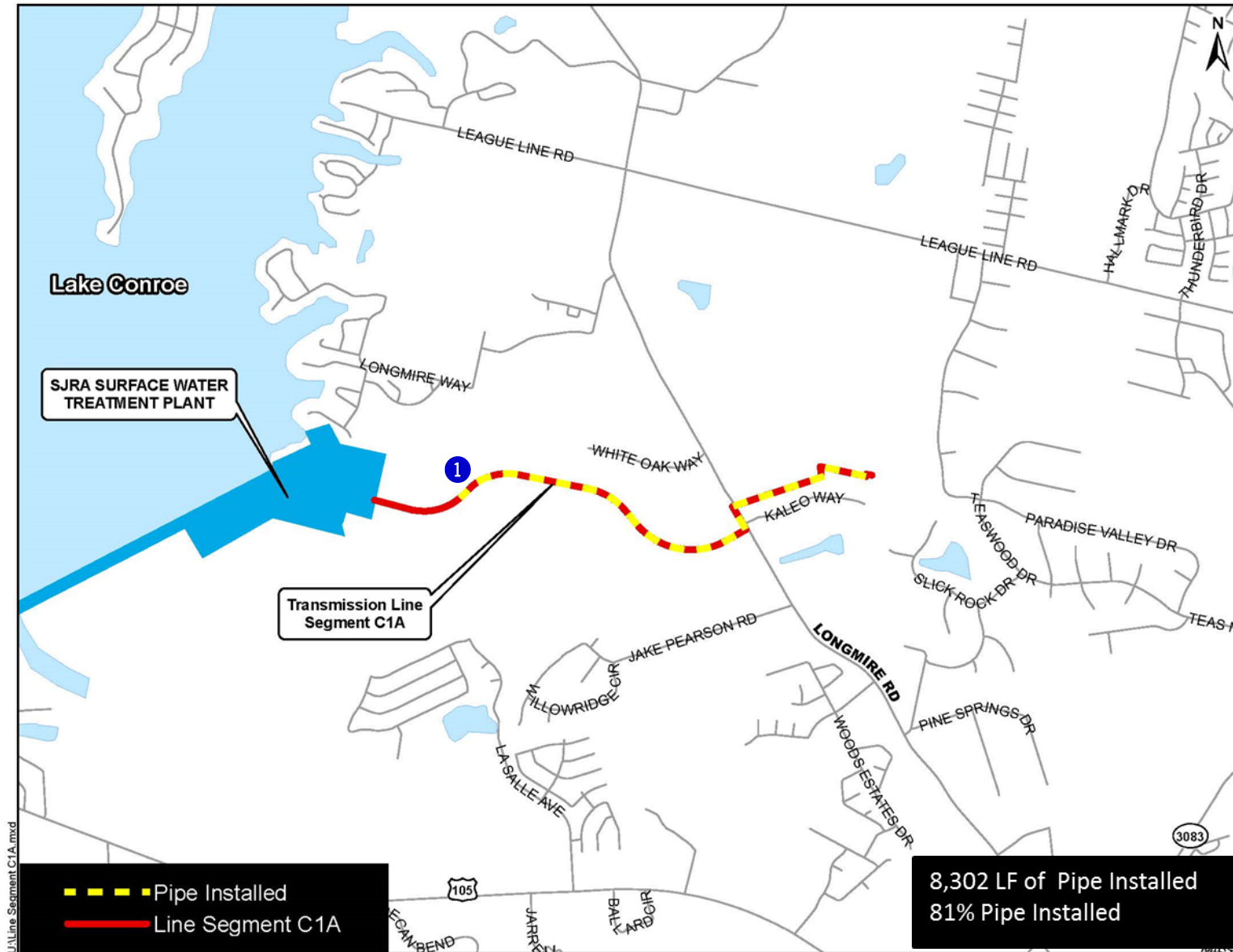


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment C1A - Manhole installation along GRP Access Road*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

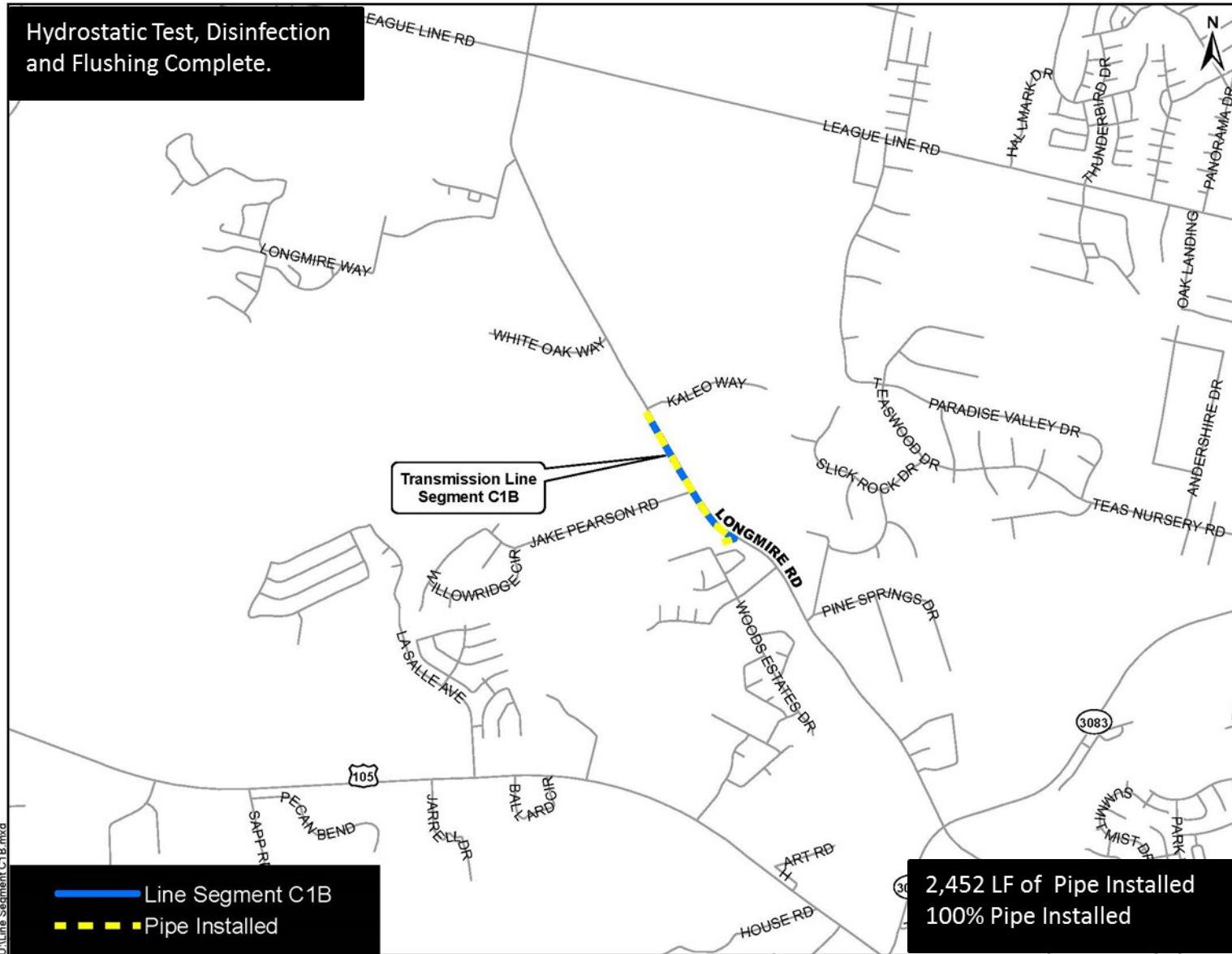


EXHIBIT 11 (con't) Transmission Line System Construction Photos

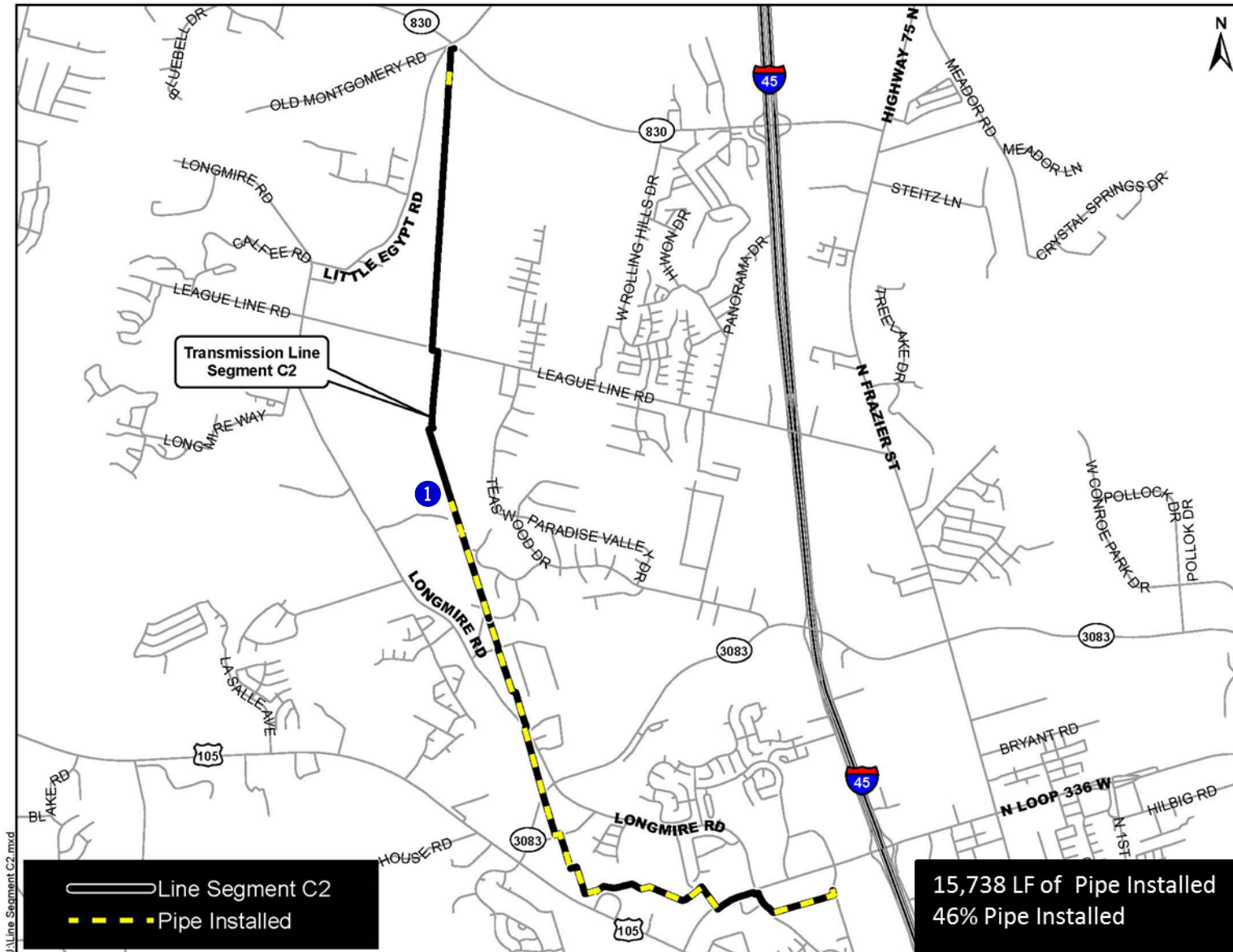


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment C2— 36--inch open cut pipe installation along Entergy corridor*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

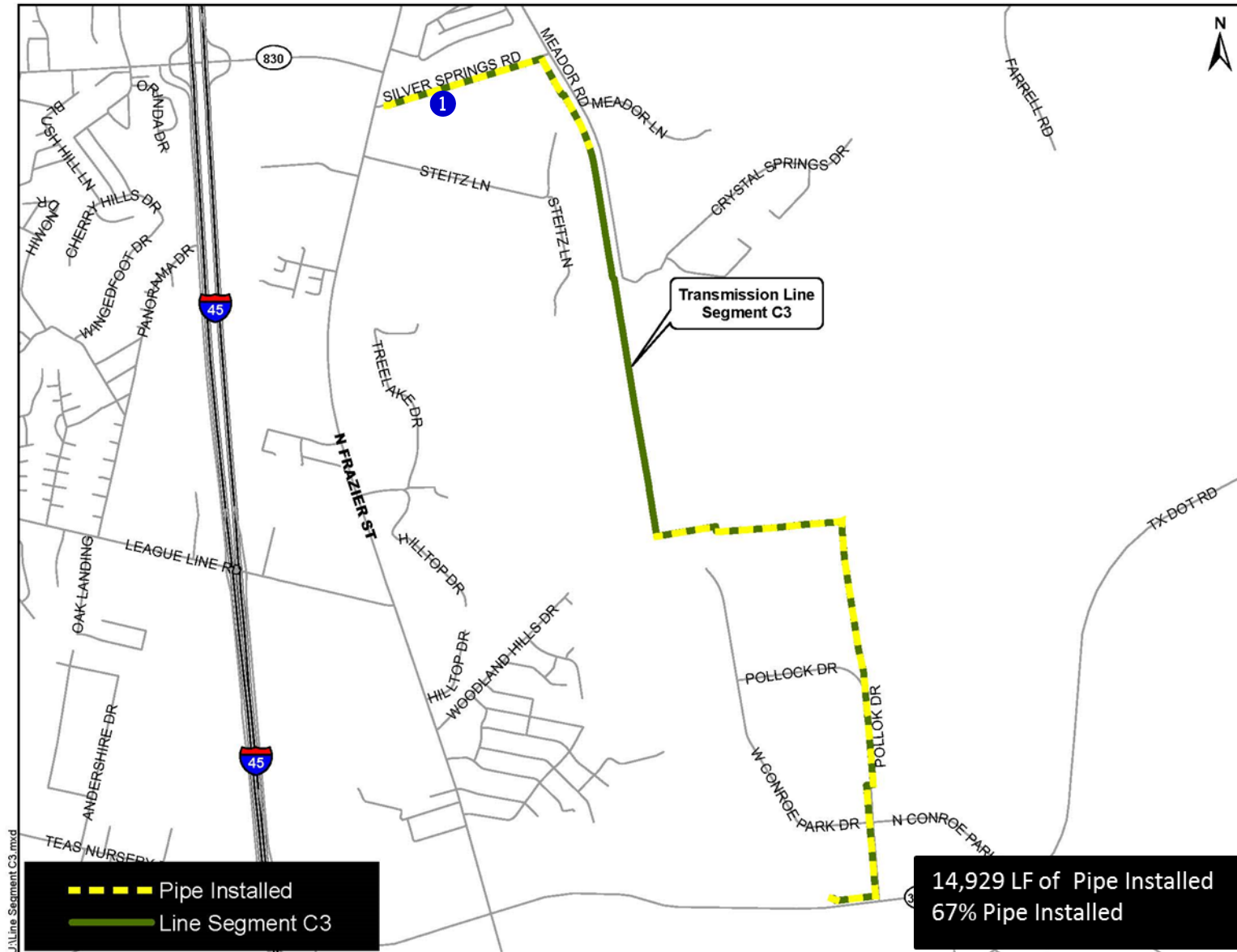


EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ Segment C3— 20-inch open cut pipe installation along Silver Springs Road

EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment C4—Bore pit and site grading along FM 830 at I-45 frontage road*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

WATER RECEIVING FACILITIES—NORTH

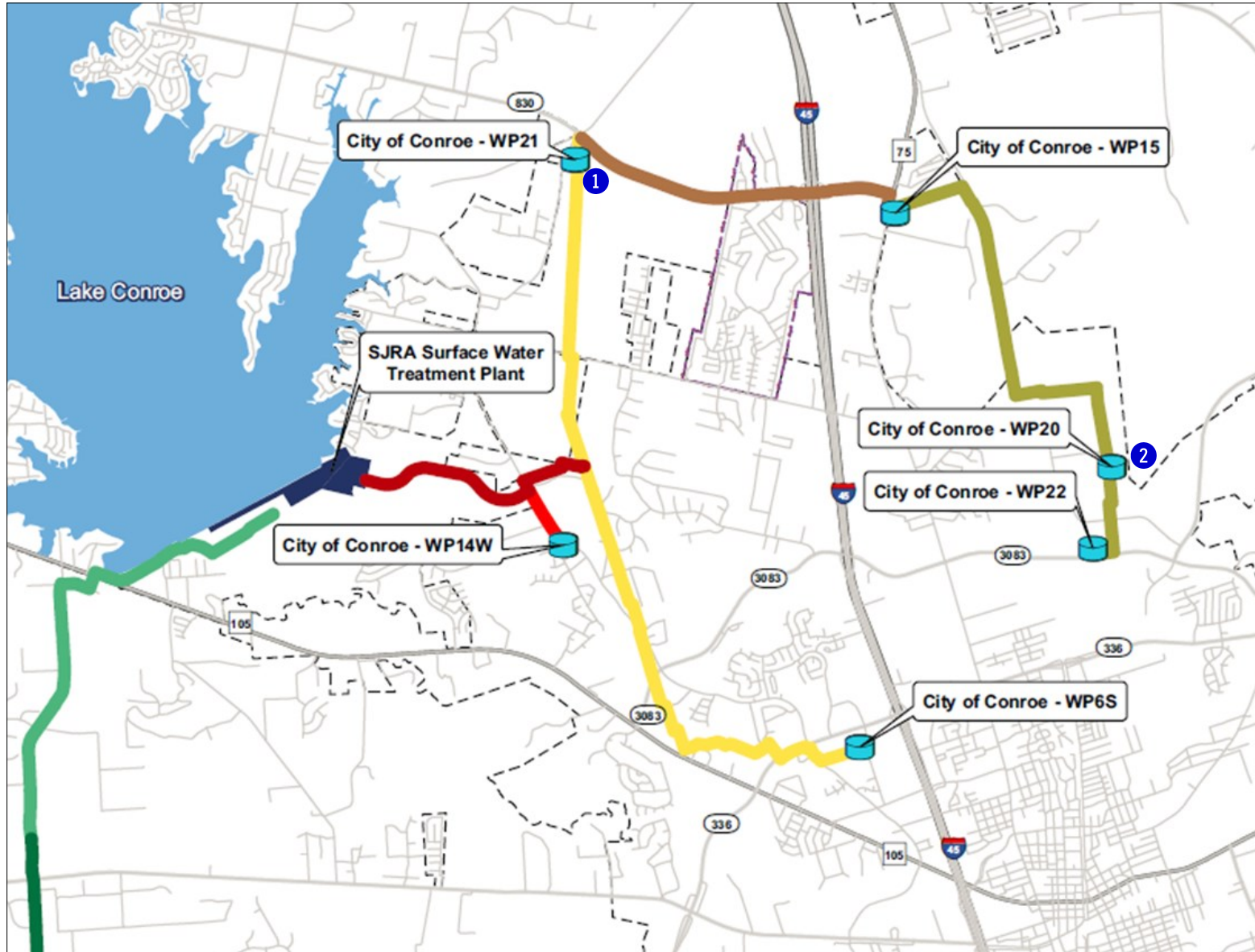


EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Surface Water Receiving Facility – North—Interior view of metering station at Conroe Water Plant No. 20*

EXHIBIT 11 (con't) Transmission Line System Construction Photos



② *Surface Water Receiving Facility – North—Piping for metering station at Conroe Water Plant No. 21*

EXHIBIT 11 (con't) Transmission Line System Construction Photos

WATER RECEIVING FACILITIES—SOUTH

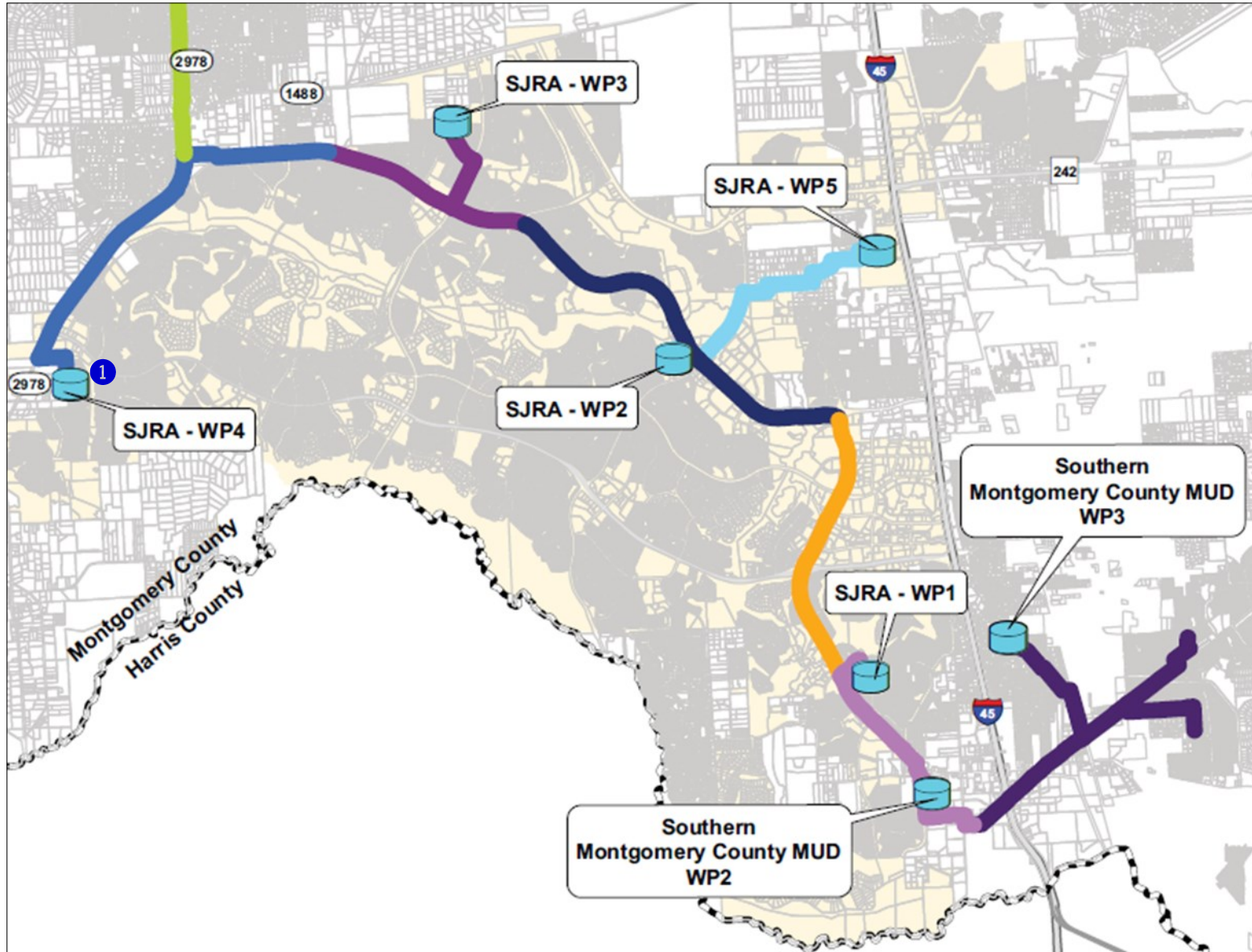


EXHIBIT 11 (con't) Surface Transmission System Line Construction Photos



① *Surface Water Receiving Facility – South — Metering station at Woodlands Water Plant No. 4*

EXHIBIT 12 Surface Water Standpipe Construction Photos

Surface Water Standpipe

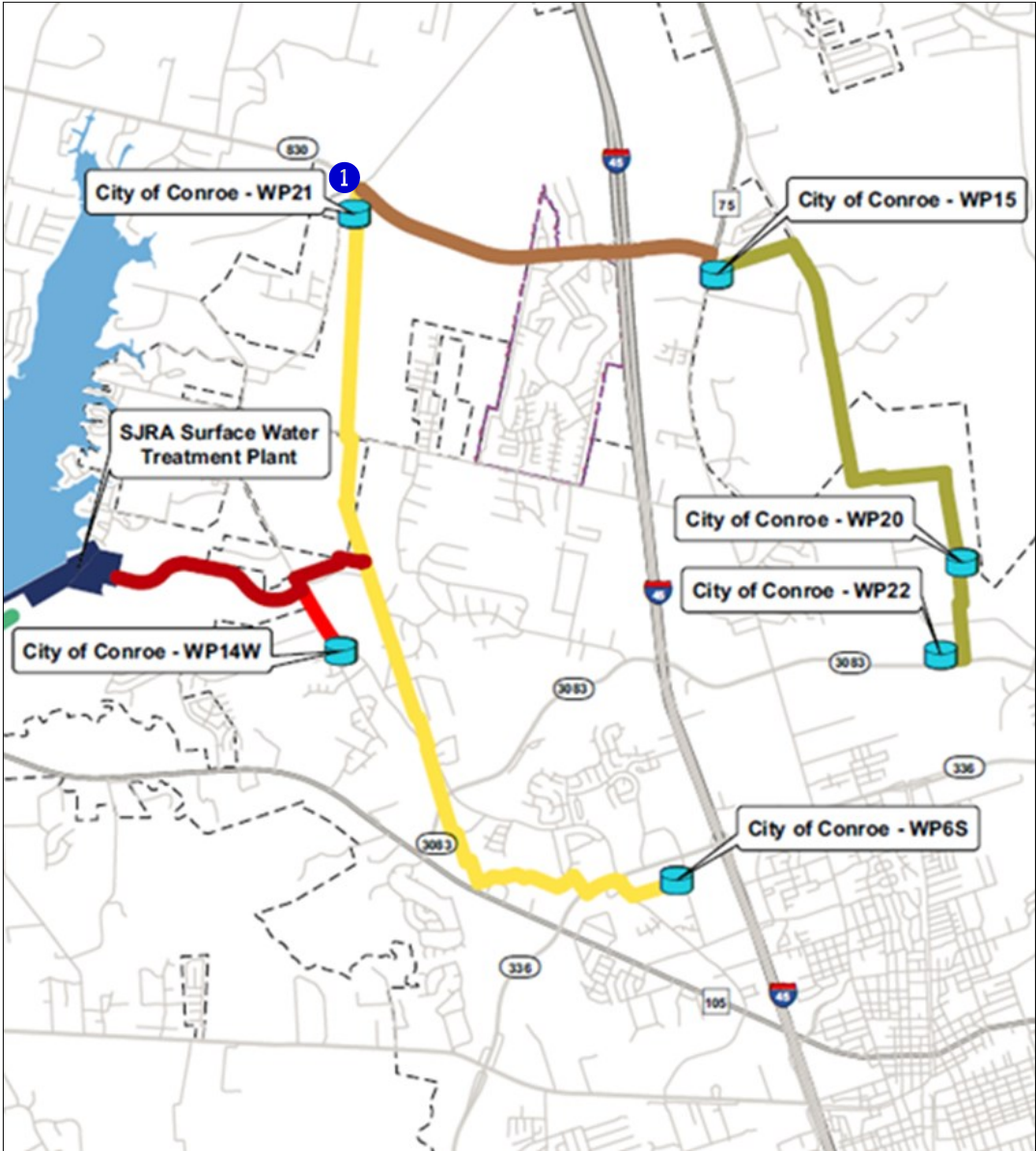


EXHIBIT 12 (con't) Surface Water Standpipe Construction Photos



① *Surface Water Standpipe—Standpipe foundation reinforcing steel and formwork installation*