

4/30/2020

To: Mayor and City Council members

Update on continuing progress and success of construction for additional ground storage water tank on FM521, south of Shadow Creek Parkway. Clay



FM 521 Ground Storage Tank Expansion

Scope: The proposed project includes the installation of a third ground storage tank, related piping, upgrade of existing pumps, and controls to provide additional storage and increased firm capacity at the FM 521 Water Pressurization Facility. The Project includes a 2,000' run of conduit and fiber to connect the plant to the fiber located on Shadow Creek Parkway and provide continuity with the conduit run from Broadway along the FM 521 Waterline.

Justification: The City is in the process of extending both the FM 521 Waterline, and the McHard Road Waterline. The FM 521 Waterline is intended to transfer water from the City's planned Surface Water Treatment Plant.

Project Manager: Jameson Appel

Construction Manager: Ronnie Hart

Designer: Costello, Inc.

Contractor: DN Tanks

Budget Info:



Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
W/S Revenue Bonds	2017C	152,525		152,525
W/S Revenue Bonds	2019B	2,759,975		2,759,975
Impact Fee – Debt				-
Impact Fee – Cash		2,759,975		2,759,975
Other Funding Sources (Fund Balance)		152,525		152,525
Total Funding Sources		5,825,000	-	5,825,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	572,827		572,827
Construction	5,000,430		5,000,430
Construction Materials Testing	28,218		28,218
FF&E			-
Total Expenditures	5,601,475	-	5,601,475

Project Balance/Contingency	223,525
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Schedule:

Phase 1	Base Line	Current
Design Start	September-17	January-18
Bid Start	October-18	September-18
Construction Start	January-19	January-19
Proposed Construction Completion	January-20	June-20

Phase 2	Base Line	Current
Design Start	March-19	March-19
Proposed Bid Start	July-19	October-19
Proposed Construction Start	January-20	January -20
Proposed Construction Completion	October-20	December -20

Phase I: The initial phase of construction which is confined to the pre-cast concrete tank work is on schedule. This phase of construction needed to add four months to the original schedule due to change orders for a new inlet riser pipe and influent/effluent piping system for the new tank. The project is currently under budget and we do not foresee any future change orders.

Phase II: The design for pumping and controls which was separated due to the specialty of the electrical and plant control work not belonging with the tank and piping construction.

Rain Days: 22

Phase I Highlights:

- Paint exterior of the tank.
- City Logo painted on the tank.
- Site grading and hydro seed of the construction site is complete.
- All site concrete is complete, spillways poured.
- New mixers are installed on all three tanks to circulate the water for better quality.
- Installed 24" and 18" yard pipe to tie in the new tank.

Upcoming Phase I Work Items:

- Repair/replace asphalt driveway.
- Install 16" inlet riser pipe for the new tank.
- Sterilize the interior of the tank and fill tank with water.
- The project is scheduled for June 2020 to have the substantial walkthrough.

Phase II Highlights:

- Contractor has Mobilized to the site.
- Trench for ductbank installation.
- Placed red concrete for all three tank ductbanks.
- Electrical rough-in to tanks including conduits for all three tank mixers.
- Installed conduits for tank #1

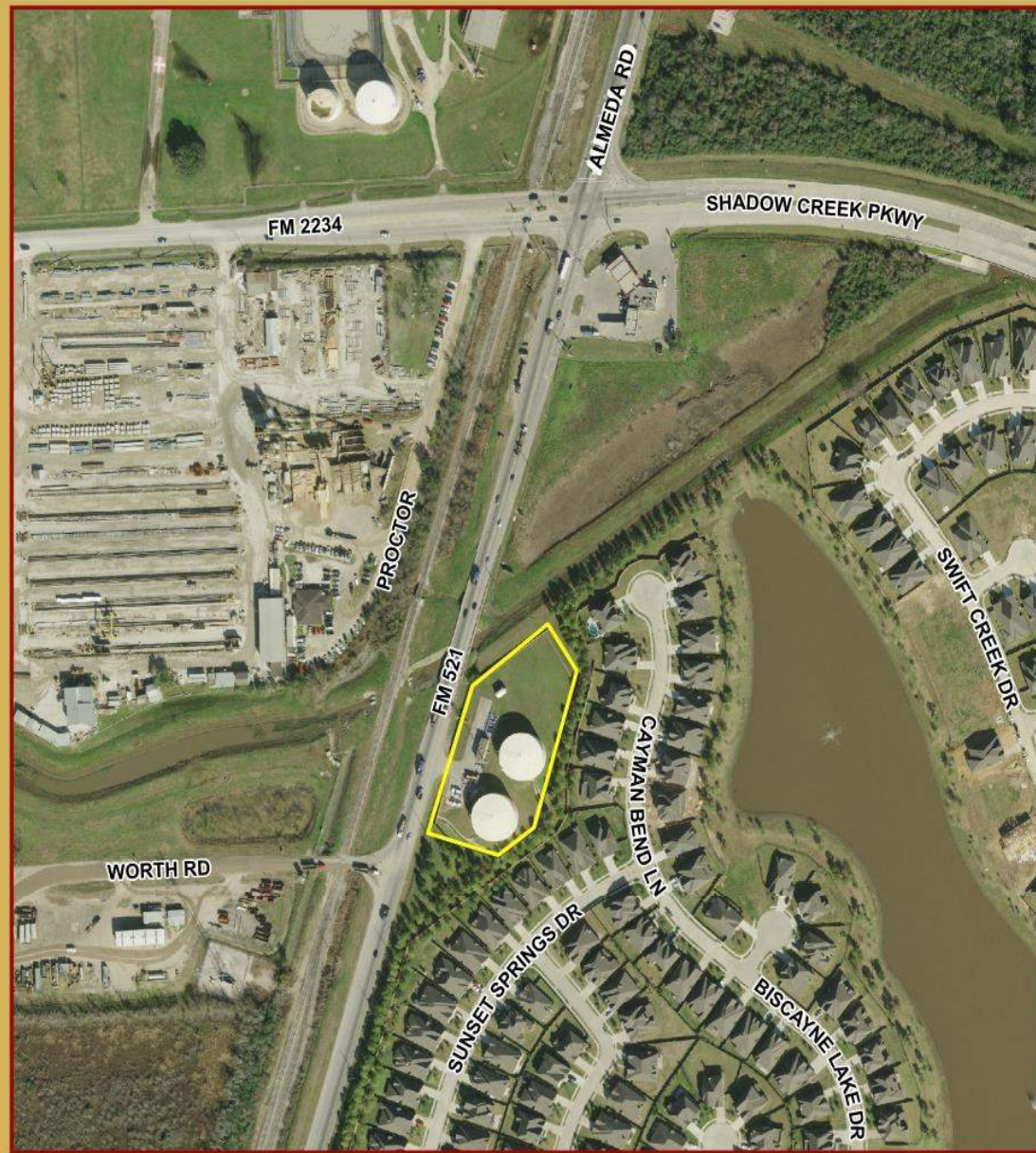
- Junction box for ductbank installed.

Upcoming Phase II Work Items:

- Continue installing all conduits.
- Pulling wire.
- Install fiber conduits.
- Mounting control panel inside maintenance building.

Previous Memos: 10/26/2017, 6/28/2018, 11/08/2018, 2/07/2019, 4/18/19, 6/28/2019, 8/1/2019, 10/3/2019, 11/21/19

Project Location Map:



CITY OF PEARLAND

FM 521
Water Plant

 Property Line



This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

1 inch = 300 feet

JUNE 2018
GIS DEPARTMENT



Phase I Construction Photos:



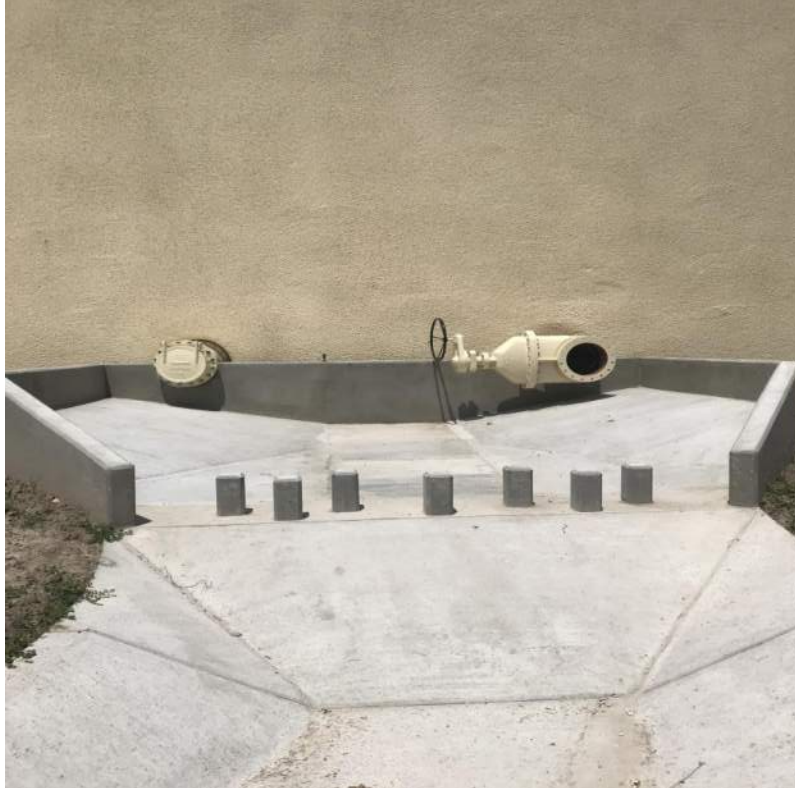
Exterior Paint



Concrete Spillway



Forms for the Splash pad



Valve, Splash pad and Spill way



Trench and install 24" pipe.



24" tie into the new tank



City Logo



Hydro seed



Hydro seed.

Phase II Construction Photos:



Ductbank install.



Ductbank



Red concrete ductbank



Red concrete and junction box.



Placing red concrete