

11 August 2021
 To: Mayor and City
 Council members
 Update on Piper Road Drainage project south
 of FM 518 that's nearing completion in good
 fashion. Clay



Piper Road Drainage

Is it in Budget?		Is it on Schedule for the Current Phase per the Contract?		Community Benefit
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sustainable Infrastructure
Project Phase?				
Construction				

Highlights:

- Nerie Construction is on track to achieve substantial completion by the end of August 2021 weather permitting.
- Current work includes asphalt driveways along the West Ditch, Formed and poured concrete driveways at West Ditch.
- Contractor has completed 36" RCP on the West side ditch of Piper Rd.
 - Installed headwall on Piper Road East ditch.
 - Started the transition to the 30" RCP from STA 16+92 to STA 19+78. Completion percentage at 80%
- Nerie has confirmed adequate flow from Piper Road to the Broadway ditch and believes the existing culverts crossing Piper in the TxDOT ROW are at the correct elevations to maximize that flow.
- TxDOT has approved Traffic Control Plan (TCP) and issued the permit to regrade the ditches in the TxDOT ROW. The work was originally planned for Tx DoT Area Office but could not get to it in a timely fashion. The work to help benefit the drainage in the area that flows to FM518. The work will require a change order to the contract.

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds	2020	351,000		351,000
General Obligation Bonds	TBS 2021	920,000		920,000
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		1,271,000	-	1,271,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	199,807		199,807
Construction	1,027,264		1,027,264
Construction Management/Inspection			-
Construction Materials Testing	31,755		31,755
FF&E			-



Total Expenditures	1,258,826	-	1,258,826
Project Contingency	1%		12,174
Project Balance			-

Schedule Info:

	Base Line	Current
Design Start	July-19	August-19
Bid Start	April-20	October-20
Construction Start	January-21	March-21
Construction Completion	August-21	August-21

Upcoming Work Items:

- Continue installation of Reinforced Concrete Pipe (RCP) and inlets (type E inlet) on the West side up to STA 24+90.
- Continue and complete paving and installing driveways and curbs into private residences that were removed for installation of piping.
- Continue and complete the transitions of the 30" RCP from STA 16+92 to STA 19+78.
- Contractor will continue work under Change Order No.3 to de-silt of the Broadway ditches as noted above (TXDOT ROW) 126' LF West of Piper Road 190' LF East of Piper Road for a total of 316'LF and 236' of 24" culvert cleaning in order to maximize the flow from Piper Road ditch.
- Currently working with contractor to confirm scope of work required to refurbish/ replace the existing roadway pavement.

Project Manager: Darcy Gomez

Construction Manager: John Simpson

Designer: Binkley & Barfield Consulting Engineers

Contractor: Nerie Construction

Scope: Drainage improvements along Piper Road from FM 518 to Fite Road, will review the existing open ditch drainage system on Piper Road. The project will be to re-grade the ditches and reset driveway culverts to move the high point of the road further North. The project will include an asphalt overlay of the road to repair damage due to the drainage improvements. The improvements will allow for more of the drainage area to flow south to the linear detention pond just East of the elementary school at Fite Road and FM 1128.

Justification: The goal for this project is to relieve periodic flooding and high-water issues along Piper Road by reviewing the drainage flows and re-grading the drainage ditches to flow south and directly to Mary's Creek. The area was identified in the Harvey Drainage Assessment Report as a local drainage improvement project.

Previous Memos:

04.20.2020, 06.11.2020, 12.10.2020 05.27.21



Project Map



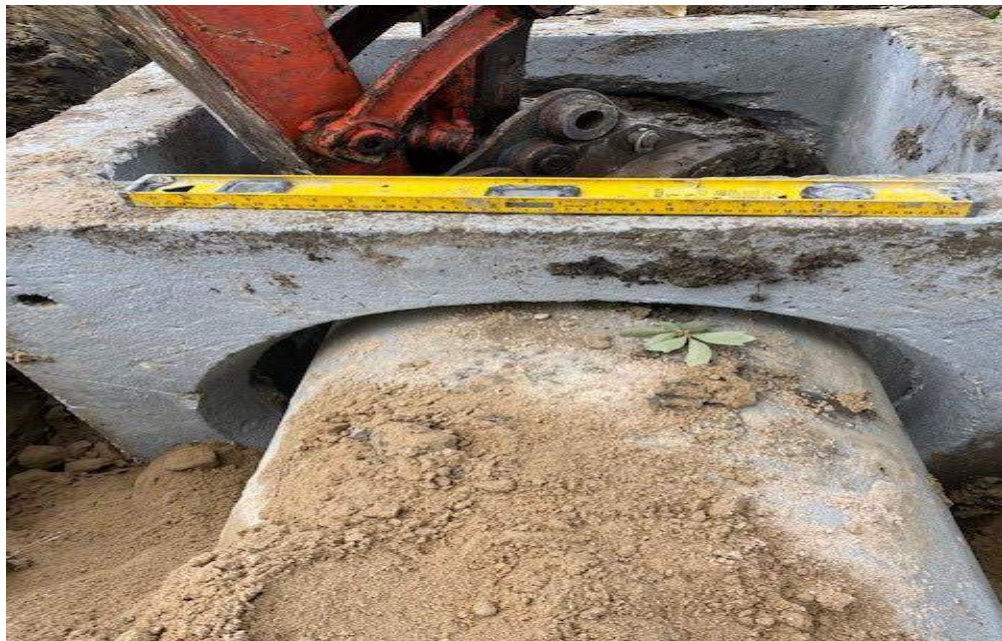
Area of Improvements Map Location



Project Photos:



Installation of New Driveway Foundation



Installation of Box Culvert and RCP Pipe



Installation of RCP Pipe