

1/23/2020

To: Mayor and City Council members

Big Hughes Ranch Road project back underway, contractor making good progress with effort towards the storm water system. Completion anticipated July `21. Clay



Hughes Ranch Road (Smith Ranch to Cullen Pkwy)

Scope: The project will construct approximately 10,500 LF of a four lane concrete curb and boulevard with sidewalks on both sides and traffic signals at Miller Ranch Road and Bryant Court. The project includes approximately 13,000 linear feet of a sound wall noise barrier along the major subdivisions, storm sewer improvements, illumination and landscaping. As a precursor to this construction project, the water line along the entire alignment was moved to avoid conflicts with drainage and sound wall foundations.

Justification: The roadway will enhance safety and improved access to adjacent subdivisions as well as provide direct access to the State Highway 288 Toll Lanes by way of the T-Ramp intersection being built by the Toll Lane project. The new roadway also improves access and traffic safety for Challenger Elementary and Dawson High School. This project complies with City Council's Strategic Priority of Safe Community, Sustainable Infrastructure, and Fiscal Responsibility

Project Manager: Jennifer Lee

Construction Manager: Cobb Fendley

Designer: BGE, Inc.

Contractor: Triple B Services, Inc.

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
Certificates of Obligation				-
General Obligation Bonds	2013	303,708		303,708
General Obligation Bonds	2014	1,065,000		1,065,000
General Obligation Bonds	2016A	1,061,745		1,061,745
General Obligation Bonds	2018	2,856,000		2,856,000
General Obligation Bonds	2019	3,244,306		3,244,306
Other Funding Sources (TIP)		14,536,844		14,536,844
Other Funding Sources (Traffic Fund)		90,547		90,547
Other Funding Sources (Fund Balance)				-
Other Funding Sources (Old Alvin)		526,850		526,850
Total Funding Sources		23,685,000	-	23,685,000
Expenditures		To Date	Future	Total
PER				-
Land		1,569,452		1,569,452
Design		606,453		606,453
Construction		17,423,046	337,500	17,760,546
Construction Management/Inspection		1,487,708		1,487,708
Construction Materials Testing		16,000	16,896	32,896
FF&E				-
Total Expenditures		21,102,658	354,396	21,457,054
Project Balance/Contingency				2,227,946

Schedule Info:

	Base Line	Current
Design Start	February-15	February-15
Bid Start	July-18	August-18
Construction Start	October-18	March-19
Proposed Construction Completion	March-21	July-21

Rain Days: 37

Status of Delay

Centerpoint (Gas) and AT&T contractors worked on relocation from May 24 to November 4 and remain on the project site finishing relocations and relocating previous efforts that were installed incorrectly. While the location of utility conflicts that delayed the contractor was primarily the far west end of the project (Smith Ranch Road intersection), gas lines and AT&T copper and fiber lines remain in conflict along the entire corridor and are being resolved. Construction officially resumed on November 4, 2019 after 164 days of interruption. Outfall A (far west end of project) was completed in August 2019 by the SH288 managed lane contractor. Through collaboration between the City's teams, AT&T and the SH288 managed lane contractor, the major conflicts at Smith Ranch Road were able to be mitigated without the addition of expensive conflict structures. As the delays were caused by unknown utility conflicts the sole remedy for the contractor per the contract is additional days. All remaining clearing and grubbing is complete.

Two of the project's three storm sewer systems are in construction concurrently which is a reflection that the contractor is making a concerted effort to recover the schedule from the utility delays. The project is potentially capturing some time back with this simultaneous work effort undertaken. Underground storm water work is anticipated to be completed in March 2020. This work was originally scheduled to be complete in mid-November 2019. The use of two crews to install the storm sewer appears to have recovered about 30 days in the storm sewer installation schedule.

Soundwall work was stopped after the bottom, one-foot panel, was found to have constructability issues and was not able to support the 8 foot tall panel. The manufacturer was required to completely redesign the panel as well as methods and means of delivery, handling and installation. All the panels will be recast and reinstalled requiring all currently installed panels to be removed. Contractor is scheduled to start installing the corrected bottom panel within two weeks. Paint and finish operations will occur when sound wall is complete. This was a contractor manufacturing issue and the re-work will not cost the City.

The contractor's third crew is preparing the north side of the road for the next phase of the project which will require the installation of temporary pavement in preparation to move traffic in advance of the construction of the eastbound travel lanes.

Highlights:

- Approximately 80% of underground work is complete. March will be 100% with only Phase 2 being inlets remaining.
- Multiple underground crews are working to regain some time.
- Centerpoint and AT&T are still on site relocating remaining utilities ahead of the contractor.
- Challenger Elementary school children remain on same walking routes as pre-project with barriers protecting them from the work.
- The temporary traffic configuration at Hughes Ranch and Smith Ranch are the responsibility of the SH288 managed lane project and are not a part of this project.

Upcoming Work:

- Temporary asphalt pavement will be installed on the north side, adjacent to the westbound lane for the length of the project (Cullen to Smith Ranch Rd). This work will finish in March.
- Phase 2 will begin with the resetting of the traffic control including striping and barricades after the temporary pavement is placed. Westbound traffic will be on the temporary pavement, eastbound will be moved to the original westbound lane. Public notice will be in accordance with City standards. Staff are working with Police and Challenger Elementary Staff on a detour to assist with school traffic during the construction of the travel lanes in front of the school.
- Demolition of the south side of the ROW and eastbound lanes will occur after lane switch. Paving operations for new eastbound lane are anticipated to occur between June and July. South side sidewalk will also be constructed at this time.

Previous Memos: 04.14.15, 10.19.17, 12.07.17, 02.15.18, 05.31.18, 11.08.18, 01.24.19, 02.14.19, 06.27.19, 10.24.19

Location Map:

HUGHES RANCH ROAD (CULLEN TO SMITH RANCH ROAD)



1:24,000
1 inch = 2,000 feet

NORTH
This product is for informational purposes only and may not be prepared or suitable for legal, engineering or surveying purposes.
MAP PREPARED: OCTOBER 4, 2017
GIS DEPARTMENT

Construction Photos:



Installing storm sewer at the intersection of Hughes Ranch Rd/Smith Ranch Rd. 10-30-2019



Installation of storm sewer. 11-27-2019



30" RCP staged on the project. 12-05-2019



Inline detention installation. 12-16-2019



Dual elliptical RCP, storm sewer system B. 12-17-2019



Storm sewer crossing at South Hampton, temporary patch. 01-09-2020