

22 July 2020

To: Mayor and City Council members

Update on the major road improvement (and utilities completed) for Hughes Ranch Road from Cullen Pkwy tying into the new T-Ramp for SH 288.

Staff is in contact and working with PISD for detours and access if school resumes 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 gutter 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: Skipper Jones / Stephen Byington (Cobb Fendley)

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	2,936,156		2,936,156
Other Funding Sources (TIP)		14,536,844		14,536,844
Other Funding Sources (Traffic Fund)		90,547		90,547
Other Funding Sources (Fund Balance)				-
Total Funding Sources		22,850,000	-	22,850,000

Expenditures	To Date	Future	Total
PER			-
Land	1,569,902		1,569,902
Design	606,453		606,453
Construction	17,527,573	352,500	17,880,073
Construction Management/Inspection	1,487,708		1,487,708
Construction Materials Testing	32,896		32,896
FF&E			-
Total Expenditures	21,224,531	352,500	21,577,031

Project Balance/Contingency	1,272,969
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Project balance includes TIP funds associated with the project. Budget chart reflects reduction made at mid-year.

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: 62

Project Status:

Since the restart of the project minor utility relocations continue in varying locations. However, the contractor has not been impacted and is prosecuting the work on schedule. Multiple underground crews were used to regain some time and all underground storm sewer is complete.

All the sound walls on the south side of Hughes Ranch Road – with the exception of Wall H by Challenger Elementary School, have been erected. Wall A, on the north side of Hughes Ranch Road between Country Place and Southdown, has been erected. The Contractor has started work on the Wall B foundations between Southdown Drive and Bedford Ave. The walls are being painted as the contractor's forces can drop back and pick up that work. Painting has been completed at Crystal Lake and that subdivision's contractor is installing the rear gate on Hughes Ranch.

Concrete paving construction began the first week of May from the east end of the project at Cullen. To date, approximately 7,205 LF of 25-foot wide concrete pavement has been constructed. The eastbound lanes have been constructed – skipping intersections – from west of Cullen to Harrington Drive. The contractor will complete the slip-form construction of the eastbound lanes (up to the intersection with Smith Ranch) in the next couple of weeks, and then start concentrating on constructing the street intersections that were skipped past by the slip-form operation. Preparations are being made to construct the sidewalk along the same side prior to placing traffic (both directions) on this pavement.

Contractor has completed drainage modifications along the Brookney Street corridor. This is a related drainage improvement separate from the street reconstruction that this contractor bid. Punch list items are currently being addressed.

Hughes Ranch Gravity Sewer work began in May, forcing a partial closure of Hughes Ranch within the construction zone. This work is progressing but heavily impacted by rain and ground water conditions. Staff continues to coordinate this work with that of the roadway.

Highlights:

- Subgrade stabilization and concrete paving construction of the eastbound lanes continues progressing to the east.
- Concrete paving construction commenced the first week of May.
- The project is 52% complete by dollars in contract as well as 51% complete by time with the 164 days added from the shutdown and currently 62 days of rain.
- COVID 19 activities have had no impact to the contractor's forces to date.

Upcoming Work: Paving operations for new eastbound lane will continue through August. 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, 01.23.20, 03.19.20, 05.21.20

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 be suitable for legal, engineering, or surveying purposes.

MAP PREPARED: OCTOBER 4, 2017
GIS DEPARTMENT

Construction Photos:



Lime Treatment of pavement subgrade.



Setting stringline for paving machine.



Steel reinforcement and expansion joints in place.



Slip form concrete paving construction.



Slip form paving process



Finished Soundwall



View of Project Looking West



View of Project Looking Northwest



View of Project Looking at Challenger Elementary driveway tie-in



View of Project Looking East



View of Project Looking West to Smith Ranch Road and SH288