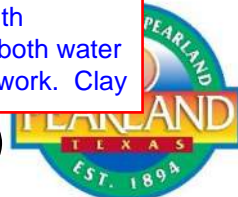


1/29/2020

To: Mayor and City Council members

Substantial water and sewer lines (see pictures) done in coordination with forthcoming McHard Road extension, to connect, expand, and improve both water and sewer systems. Project going well with contractor getting after the work. Clay



McHard Road Trunk Sewer (Garden to Southdown)

McHard Road Waterline Ph II (Cullen Pkwy to Mykawa Rd)

Scope: (Trunk Sewer) Install, along McHard Rd, approximately 4,500 feet of 24" trunk sewer from Cullen to Southdown Wastewater Reclamation Facility (completed by Developer Agreement with Lake Park Subdivision); 5, 800 feet of 18" trunk sewer from Cullen to Max Road; and approximately 4,000 LF of 15" trunk sewer from Max Road to Garden Road. (Phase 2 Waterline) Phase II of the distribution line extends from Cullen Parkway to Mykawa Road a total of approximately 17,500 linear feet. This portion of the project is timed to coincide with Right of Way approval and acquisition for the McHard Road project.



Justification: (Trunk Sewer) This project will provide gravity sewer from Southdown WRF to Garden Road with limited extensions north and south along Max Road, Roy Road and Garden Road as detailed in the wastewater master plan. Extends Southdown service area to the east, picking up areas not currently served by City system. (Phase 2 Water Line) This will be the second segment completing the transmission connection between the east and west sides of the City. It will allow for more efficient water flow, better fire protection and the movement of water from the expanded Alice Street Water Plant.

Construction Manager: Jaime Dino

Designer: Freese and Nichols, Inc

Contractor: Reddico Construction Co., Inc

Budget Info:

McHard Trunk Sewer:

Funding Sources	Series	To Date	Future	Total Budget
System Revenue - Cash		618,390		618,390
W/S Revenue Bonds	2014	225,745		225,745
W/S Revenue Bonds	2016A	558,500		558,500
W/S Revenue Bonds	2017C	1,164,750		1,164,750
W/S Revenue Bonds				-
Impact Fee - Debt	2016A	558,500		
Impact Fee - Debt	2017C	1,164,750		
Impact Fee - Debt				-
Other Funding Sources		809,365		809,365
Total Funding Sources		5,100,000	-	5,100,000

Expenditures	To Date	Future	Total
PER			-

Land	92,097		92,097
Design	220,480		220,480
Construction	4,066,520		4,066,520
Construction Management/Inspection			-
Construction Materials Testing	73,520		73,520
FF&E			-
Total Expenditures	4,452,617	-	4,452,617

Project Balance/Contingency	647,383
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McHard Waterline:

Funding Sources	Series	To Date	Future	Total Budget
Certificates of Obligation				-
Certificates of Obligation				-
W/S Revenue Bonds				-
W/S Revenue Bonds	2017C	2,968,240		2,968,240
System Fund - Cash				-
Impact Fee - Cash				-
Impact Fee - Debt	2017C	2,868,240		2,868,240
Other Funding Sources		99,520		99,520
Total Funding Sources		5,936,000	-	5,936,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	115,346		115,346
Construction	2,327,341		2,327,341
Construction Management/Inspection			-
Construction Materials Testing	55,235		55,235
FF&E			-
Total Expenditures	2,497,922	-	2,497,922

Project Balance/Contingency	3,438,078
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Schedule Info:

	Base Line	Current
Design Start	February-17	April-17
Bid Start	December-17	April-19
Construction Start	July-19	August-19
Proposed Construction Completion	August-20	

Rain Days: 12

Highlights:

Since the last project update the contractor has completed the following on both the Phase 2 Water line and Trunk Sewer phases:

Trunk Sewer

- In an effort to make up time due to the holidays, the City's contractor, Reddico, has allocated 3 additional underground crews and have broken ground at the following locations:
 - 1st crew started boring the proposed 18" sanitary sewer from Cullen Blvd towards Stone Road. Approximately 385 LF of 18" sanitary sewer has been constructed at this location (Sta. 1+00 – Sta. 3+85)
 - 2nd crew started open cut construction of the proposed 18" sanitary sewer at Stone Road, moving east towards Max Road (Sta. 36+42 to 45+22). Approximately 880 LF of 18" sanitary sewer line has been constructed at this location.
 - 3rd crew started open cut construction of the proposed 15" sanitary sewer starting at Roy Road moving east towards Garden Road (Sta. 78+00 to Sta. 85+00). Approximately 700 LF of 15" sanitary sewer has been constructed at this location.

Phase 2 Water line

- Constructed and installed approximately 17,000 LF of 16" water line through the McHard Corridor.
- Installed associated gate valves and fire hydrants within the linear footage of water line. **A total of 16 fire hydrant assemblies have been installed within the water line segment.**
- Initiated hydrostatic testing on the recently installed 16" water line. The following segments of water line have passed the hydrostatic test.
 - Cullen Blvd. to Stone road. (approximately 3,600 LF)
 - Stone Road to Max Road. (Approximately 2,300 LF)
 - Max Road to Roy Road. (Approximately 1,900 LF)
 - Roy Road to Garden Road. (Approximately 2,100 LF)
 - Garden Road to O'Day Road. (Approximately 1,000 LF)
 - O'Day Road to Hatfield Road. (Approximately 2,100 LF)
 - Woody Road to Mykawa Road. (Approximately 2,100 LF)

Upcoming Work Items:

Phase 2 Water Line

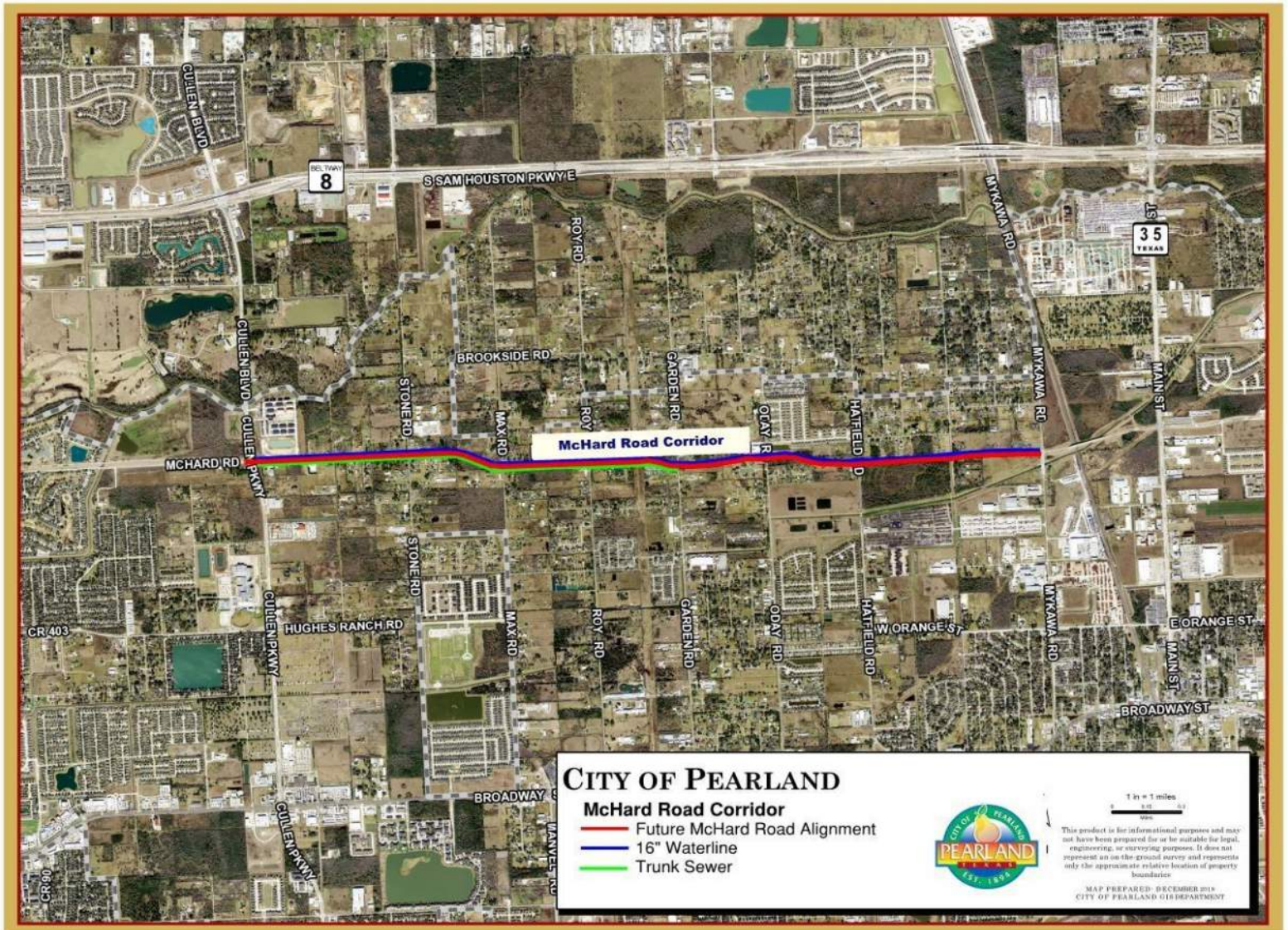
- In the upcoming weeks the contractor anticipates completing the segment of 16" water line (approximately 800 LF) located in between Hatfield Road and Woody Road. Once installed the contractor and City Inspector will implement the hydrostatic testing followed by the Bacteria test administered by the City's Water Department.
- Bacteria test's are currently being scheduled by Project's Staff and Public Work's Water Staff to take place in the upcoming weeks for the segments of water lines that have already passed hydrostatic testing. Once Bacteria Testing has been completed and approved, the water line will then be activated into service.

Trunk Sewer

- The City's contractor will continue to have all 3 underground crews working at the designated locations mentioned under the Trunk Sewer highlights category.

Previous Memos: 06/06/19; 11/27/19

Project Location Map:





Recently bored 18" sanitary sewer at Cullen Blvd and McHard Road.



18" sanitary sewer installation. Avg. depth at this location, 26' depth.



18" gravity sanitary sewer. Proper shoring and trench safety implementation.



Sanitary sewer trench – dewatering bottom of trench.



Bore Pit preparation for proposed 18" sanitary sewer line.



Recently installed 15" sanitary sewer being backfilled by cement stabilized sand.



Recently bored 16" water line in 24" steel casing at O'day/ McHard Road Intersection.



16" water line construction located in between O'Day Road and Hatfield Road.