

5/20/2020

To: Mayor and City Council members

In the last stretches of complex, three package improvements for wastewater system in the Mykawa Road corridor, all be coordinated with the forthcoming roadwork. Impressive pix attached including boring underneath railroad tracks. Clay



Mykawa Lift Stations

Scope: Project includes installation of 18" gravity sewer on Hatfield Rd: the replacement and relocation of the Orange-Mykawa Lift Station to the ROW adjacent to Town Ditch to be served with the installation of a 12" gravity sewer line~3,400 LF along Mykawa from Orange to Walnut, and 8" force main from Mykawa west 2500 LF to Hatfield Rd; abandonment Shank Street Lift Station; replacement and relocation of Mykawa-Scott Lift Station, installation of new 8-inch force main for approximately 2,500 LF from Mykawa to SH35, and new 8-12-inch gravity line approximately 3,450 LF along Mykawa from Scott to Shank. Project will be coordinated with Mykawa Road construction.



Justification: Orange-Mykawa Lift Station will require a major rehabilitation within the next five years and is poorly located for servicing the area. The project will eliminate an existing inverted siphon in a gravity line and relocate the Orange-Mykawa Lift Station. In addition, the project will eliminate the Shank Street Lift Station and relocate the Scott Street Lift Station presently in conflict with the future Mykawa Road Widening.

Construction Manager: Darcy Gomez

Designer: 5Engineering, LLC

Contractor: (Package 1&3)- Nerie Construction, LLC
(Package 2) – Black Castle General Contractor

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
W/S Revenue Bonds	2017	795,000		795,000
W/S Revenue Bonds	2018	5,551,620		5,551,620
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources		898,421		898,421
Total Funding Sources		7,245,041	-	7,245,041

Expenditures	To Date	Future	Total
PER	93,712		93,712
Land	101,026		101,026
Design	554,113		554,113
Construction	6,093,540	4,105	6,097,645
Construction Management/Inspection			-
Construction Materials Testing	53,000		53,000
FF&E			-

Total Expenditures	6,895,391	4,105	6,899,496
Project Balance/Contingency			345,545

Schedule Info:

	Base Line	Current
Design Start	May-16	May-16
Bid Start	August-17	April-19
Construction Start - Package 1	July-19	August-19
Construction Completion - Package 1	February-20	December-19
Construction Start - Package 2	July-19	September-19
Proposed Construction Completion - Package 2	September-20	
Construction Start - Package 3	July-19	August-19
Proposed Construction Completion - Package 3	March-20	May-20

(Package 1) Rain Days: 19

(Package 2) Rain Days: 5

(Package 3) Rain Days: 2

Please note that this project was repackaged into 3 distinct types of construction projects to encourage bidder participation as noted in the pre-award memo published July 03, 2019. The packages and respective scopes as follow:

- Package 1 - Pipe Bursting: Hatfield Road to Orange Street.
- Package 2 – Lift Stations and Mykawa Road Gravity Sewer. (This package also includes abandoning all gravity sewer mains along with the decommissioning of 3 existing lift stations along Mykawa Road)
- Package 3 – Force mains: Orange Street and Scott Street.

Highlights:

Package 1- Since the last project update the contractor, Nerie Construction, has completed the following:

- Contractor installed all manholes.
- Replaced all sidewalks.
- Site restoration has been completed.
- New fence replacement at 2203 Hatfield completed.
- Post TV'd with inclinometer (12" and 18") has been completed.
- Vegetation has been established throughout site.

Nerie Construction had their substantial completion walk through on February 6, 2020 and their Final completion 30 days after on, April 1, 2020 and all punch list items have been completed. Punch list items consisted of re-grouting 2 manholes and site restoration.

Package 2 – Since the last project update the contractor, Black Castle, has completed the following:

- Contractor installed 450 feet of new 12" PVC gravity sewer from MH A6 (STA 7+17.89) to MH A7 (STA 11+69.04).
- Installed the following Manholes:
 - MH A6 (STA 7+17.89).
 - MH A5 (STA 8+00).

- MH A7 (STA 11+50).
- Generators and handrails were installed at both Lift Stations .
- The above ground discharge piping has been installed on Orange and Scott lift station sites.
- Continued the installation of 12” gravity line that runs between Orange/Mykawa LS site and Scott/Mykawa Lift station site.
- Placed pumps in both Lift Stations on Orange Street and Scott.
- Stainless steel guide rails and cables have been installed in both LS's
- Excavated and prepped to install MH A8.
- Pre-Tv existing gravity sewer line between existing Orange/Mykawa and Scott/Mykawa Lift Station sites for locating existing sanity sewer connections.

Package 3 – Since the last project update the contractor, Nerie Construction, has completed the following:

- Installed sidewalk at Orange and Mykawa.
- Received and coated the casing pipe in agreement with the railroad company,
- Hydrostatic test on Orange Side is complete.
- Dry bore for force main has been completed under railroad tracks

Upcoming Work Items:

Package 1

The contractor, Nerie, will begin working on preparation of As Built's.

Package 2

In the upcoming weeks, Black Castle will:

- Install the manhole inverts at both locations (Scott and Orange).
- Start forming and pouring lift station driveway for the Orange/Mykawa Lift Station site.

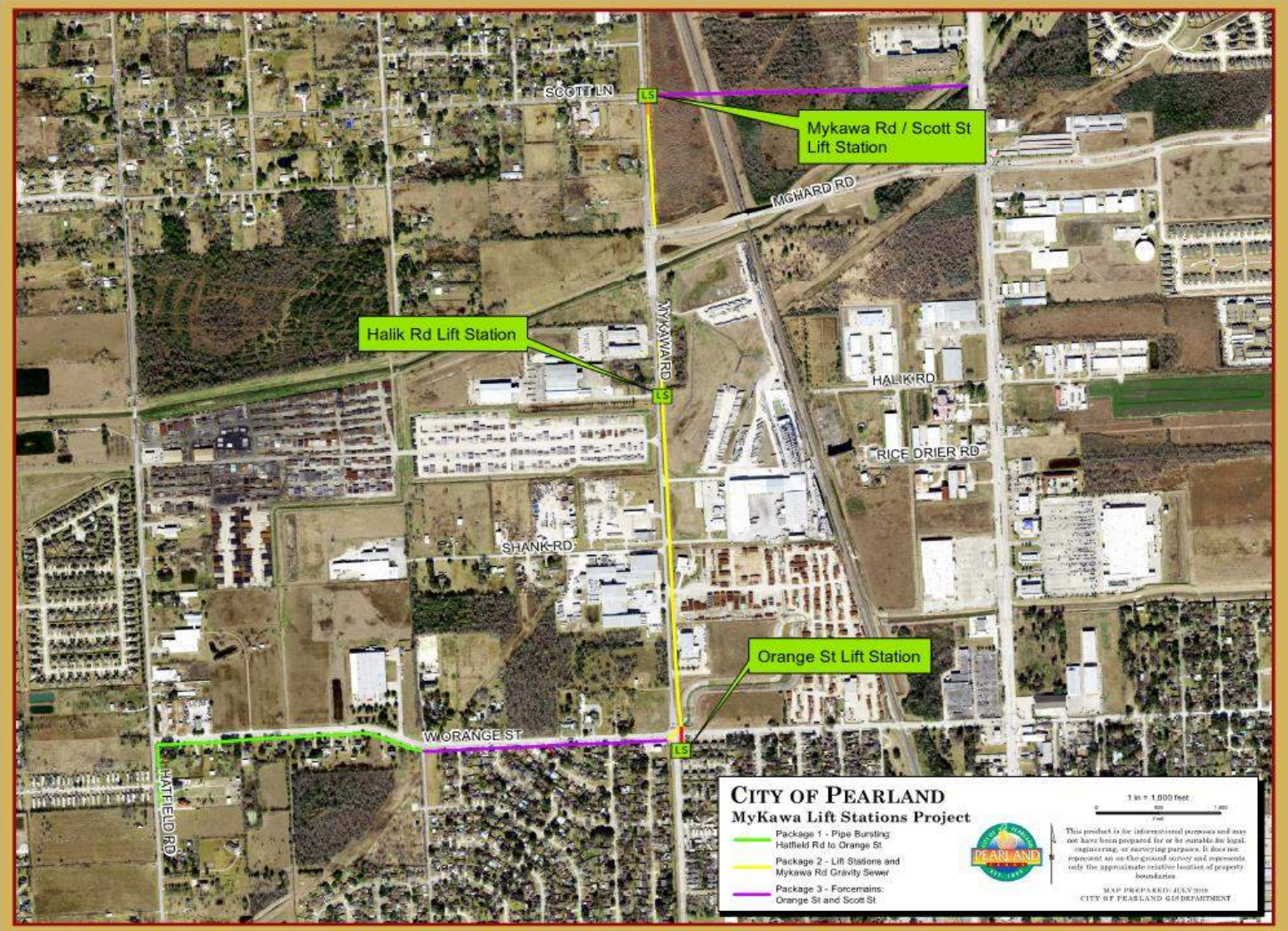
Package 3

In the next coming weeks, Nerie Construction will:

- Package 3 will be substantially completed after the last air release manhole located on the East side of the railroad is installed. Staff will schedule a substantial completion walk through soon after.

Previous Memos: 01/26/17;04/27/16;02/02/17;09/21/17;02/15/18;06/27/19;07/03/19;11/07/19

Project Location Map:

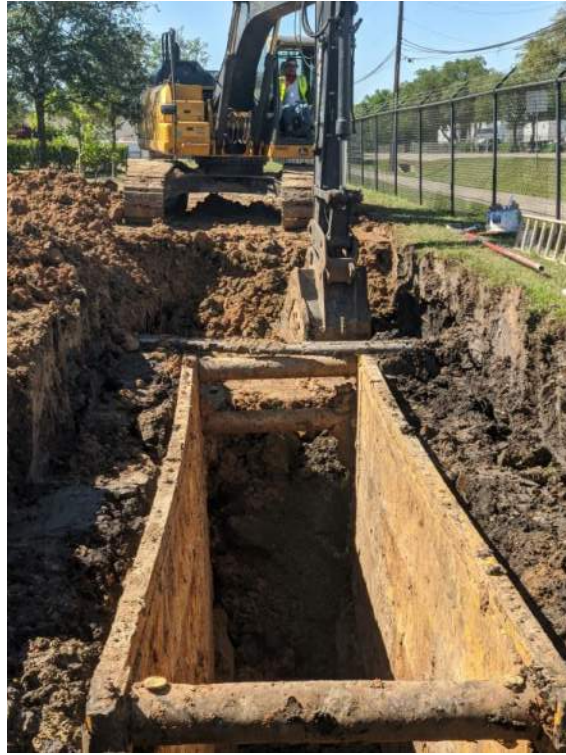




Inside of Mykawa and W. Orange Lift Station – Package 2



Mykawa and W. Orange Lift Station – Package 2



Open cut of 12" Sanitary Sewer along Mykawa Road – Package 2



Dry boring under railroad for Package 3.



Installation of the Orange-Mykawa lift station Manhole



Air release manhole installation for force main.



Inside of Mykawa and W. Orange Lift Station – Package 2