



8 March 2021  
 To: Mayor and City Council members  
 Update on sidewalk design work underway. Clay

# Safe Routes to School

Is It In Budget?		Is It On Schedule?		Community Benefit <i>Provide safe mobility for pedestrians within the "no bus" areas near public schools.</i>
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
<b>Project Phase?</b>				
Engineering/Design				

## Highlights:

The project design engineer, Gauge Engineering, kicked off the design of the Safe Routes to School project after the City received the Federal Project Authorization and Agreement (FPAA) from TxDOT on August 19, 2020. In order to ensure reimbursement, no activities can begin prior to receipt of the FPAA authorization. While design phase services are not eligible for reimbursement, the design phase must meet all TxDOT standard design and environmental requirements

To date, the design has progressed to approximately 85%. The Project Team has been in constant communications and coordination with Brazoria Drainage District 4 (BDD4) and TxDOT as the design is being developed to ensure all major drainage ditch crossings options meet approvals.

TxDOT's responsibilities during design phase include review and approval of the 60%, 90%, and 95% milestones.

- Work completed to date includes:
  - Submission of 60% plans and specifications on November 30, 2020.
  - City Staff and TxDOT reviewed the 60% submission and returned comments December 30, 2020.
    - On December 16, 2020, TxDOT requested a scour analysis at the proposed pedestrian bridge locations. Staff is working with TxDOT to understand this request as the bridges are planned to free span at the locations with no structure in the channel, therefore, not requiring the need for a scour analysis.
  - City Staff, TxDOT and Gauge conducted a walk-through site visit to confirm the sidewalk alignment and limits on January 14, 2021.
    - During the walk-through, the TxDOT Project Manager made several design change suggestions that would result in cost savings for the City. Changes included the elimination or reduction in width of sidewalk in certain areas where the construction would impact the existing drainage. Additional changes reduced lane widths to accommodate the sidewalk in areas to fit the existing ROW.
    - Gauge began incorporating those revisions immediately after the walk-through. Gauge has discussed requesting a variance to reduce the sidewalks from 6 ft. to 5 ft. in areas immediately adjacent to the roadway.
    - The TxDOT Construction Administration Director determined that some of the recommended changes, by the TxDOT Project Manager, to the sidewalk width and proximity to the traffic lanes conflicted with the American Association of State Highway and Transportation Officials (AASHTO) green book (6<sup>th</sup> edition) Section 4.17.1. The green book states that residential sidewalks should be 4-8 ft wide,



and where sidewalks are placed adjacent to the curb, the widths should be approximately 2 ft wider than the minimum required width.

- TxDOT informed the project team on February 4 of the AASHTO green book conflicts. The conflicts had not been identified in the 60% review.
- The 90% submission is delayed until the conflicts can be remedied.
- Ongoing work includes:
  - Continued coordination with BDD4 and TxDOT
  - Continue discussion of the need for the Scour analysis.
  - The next milestone for plans and specifications will be distributed to Staff for review.
  - The review should be complete within two weeks after the plans and specifications are received.
- TxDOT has stated that the let date will need to be changed to account for the time lost redesigning the areas per the TxDOT Project Manager's comments that were later not approved by TxDOT District office.
  - TxDOT is allowing the let date to move from August 2021 to November 2021 in order to include the additional scope that includes:
    - Revising the width of the sidewalk to comply with ASSHTO green book guidelines.
    - Survey for the revised sidewalk alignment.
    - Completion of the drainage analysis.
    - The project included pedestrian bridge design that will no longer be necessary. The cost of the additional survey and drainage analysis will use the funds previously allocated for the bridge design and will therefore not increase the budget.
  - The project team is working to submit the 90% submission to the City, BDD4 and TxDOT by the end of April.

**Budget Info:**

Funding Sources	Series	To Date	Future	Total Budget
General Revenue – Cash				-
Certificates of Obligation	2020A	773,400		773,400
Certificates of Obligation				-
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee – Debt				-
Other Funding Sources – HGAC TIP		2,553,600		2,553,600
Other Funding Sources – Fund Balance		435,000		435,000
<b>Total Funding Sources</b>		<b>3,762,000</b>	-	<b>3,762,000</b>

Expenditures	To Date	Future	Total
PER			-
Land	100	190,000	190,100
Design	301,363		301,363
Construction		2,644,707	2,644,707
Construction Management/Inspection			-
Construction Materials Testing		25,000	25,000
FF&E			-



Total Expenditures	301,463	2,859,707	3,161,170
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Project Balance/Contingency			600,830
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**Schedule Info:**

	<i>Base Line</i>	<i>Current</i>
<i>Design Start</i>	June-19	July-20
<i>Bid Start</i>	September-21	October-21
<i>Construction Start</i>	February-22	
<i>Proposed Construction Completion</i>	August-22	

Rain Days: N/A

**Upcoming Work Items:**

In the next 60 days, the 90% design plans should be submitted for review by April 30, 2021.

**Project Manager:** Jennifer Lee

**Designer:** Gauge Engineering

**Contractor:** N/A

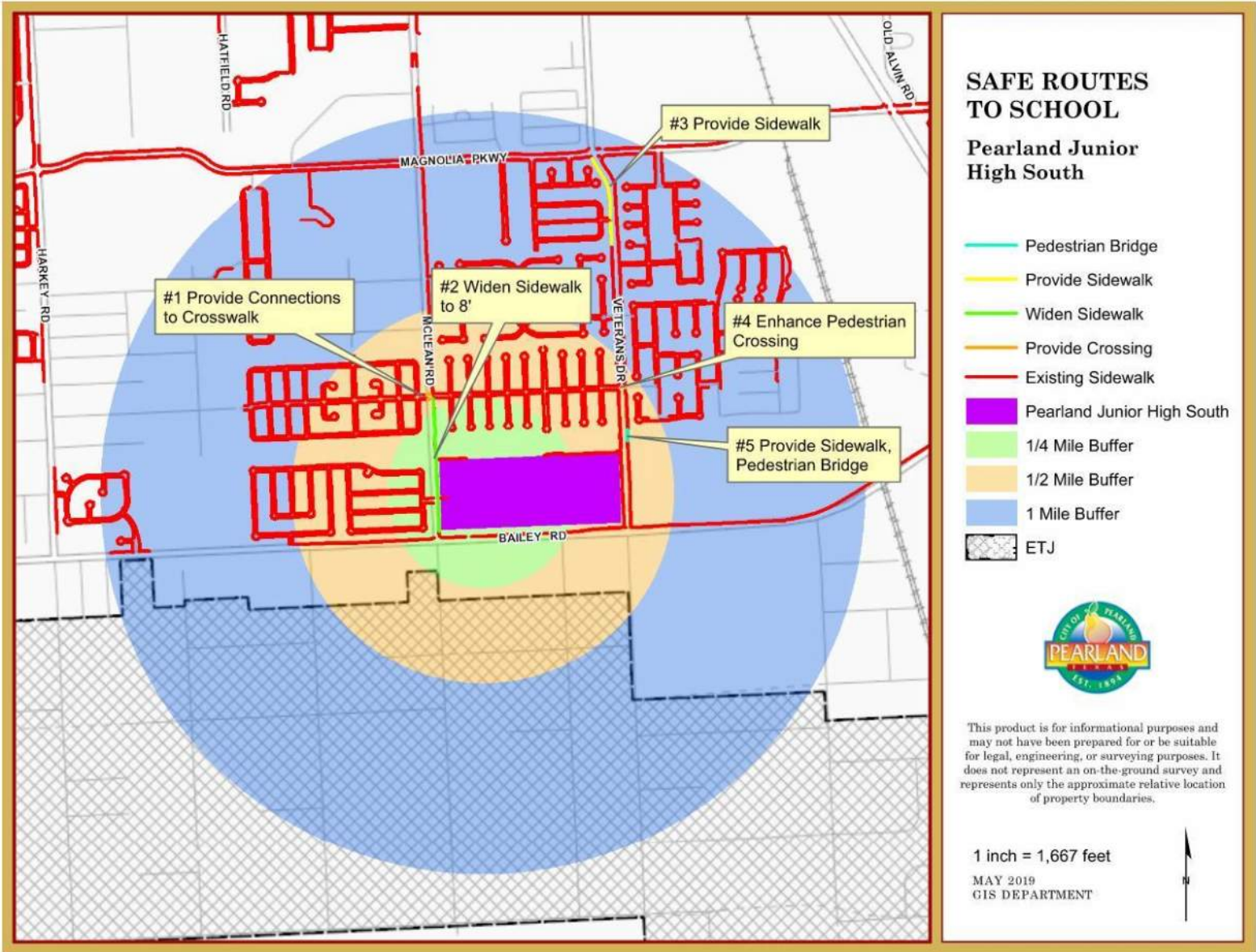
**Scope:** As defined in the Advance Funding Agreement, the project consists of the construction of approximately four and half miles of sidewalks in various locations, near Carlestone Elementary, Cockrell Elementary, and Pearland Jr. High School and two pedestrian bridges across Hickory Slough and one pedestrian bridge on the east side of Veterans at the drainage ditch.

**Justification:** Facilitate safe pedestrian mobility to schools and encourage reduced driving, traffic calming and other safety measures along these routes. Locations have been coordinated with the Safe Routes to School Study and street projects.

**Previous Memos:** 05/02/19, 04/30/20, 12/10/20



Project Location Maps:





## SAFE ROUTES TO SCHOOL

### H.C. Carleston Elementary

- Provide Sidewalk
- Existing Sidewalk
- H.C. Carleston Elementary
- 1/4 Mile Buffer
- 1/2 Mile Buffer
- 1 Mile Buffer
- ETJ

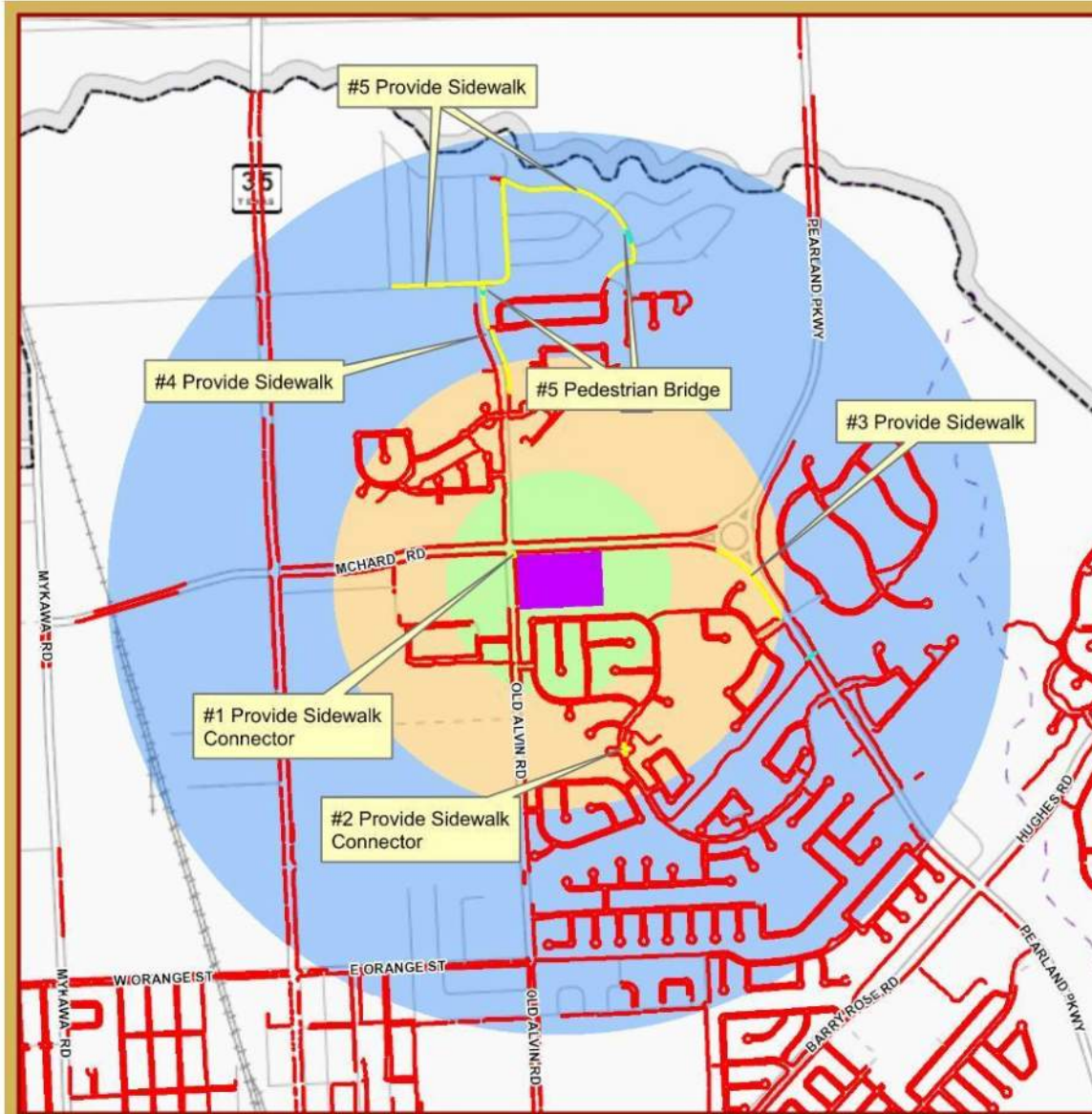


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1 inch = 2,300 feet

APRIL 2020  
GIS DEPARTMENT





## SAFE ROUTES TO SCHOOL

### Barbara Cockrell Elementary

- Pedestrian Bridge
- Provide Sidewalk
- Existing Sidewalk
- Barbara Cockrell Elementary
- 1/4 Mile Buffer
- 1/2 Mile Buffer
- 1 Mile Buffer



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1 inch = 1,667 feet

MAY 2019  
GIS DEPARTMENT

