

Office of Michael H. Barnes, P.E.

City of Richland Hills, Texas

## Memorandum

To: Honorable Mayor Bill Agan and members of the Richland Hills City Council  
From: Michael Barnes, P.E., City Engineer  
Date: September 23, 2013  
Subject: Baker Blvd. Intersection Improvements

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### **Council Action Requested:**

Presentation by Halff Associates regarding proposed Baker Blvd. Intersection Improvements Project.

### **Background Information:**

In 2012 the city entered into an agreement with TXDOT to improve three intersections on Baker Blvd. The intersections are at Handley Ederville, Vance/Ash Park, and Rufe Snow. The original design concept included the following:

1. Right turn lanes at the three intersections
2. Sidewalks along Baker Blvd. from Handley Ederville to Rufe Snow
3. Relocate Ash Park to intersect directly with Vance
4. Asphalt overlay at each intersection

All of the above improvements were based on the estimated construction cost in the LPAFA of approximately \$2,700,000. When the design and other ancillary costs are included, the total cost of the project is estimated to be approximately \$3,550,500. Of this amount, the City will eventually be responsible for approximately \$91,250.

The proposed design incorporates most of council's original design requests. The only major change involves the right turn lanes. Engineering studies dictated that right turn lanes were

not warranted in the east bound lane at Rufe Snow and at the east and west bound lanes at Vance/Ash Park. The east bound right turn lane at Handley Ederville is still included in the design.

Halff Associates will present the final proposed design concept to council for their concurrence or recommended changes prior to sending to TXDOT.

**Board/Citizen Input:**

N/A

**Financial Impact:**

None at this time – Eventual City Contribution of approximately \$91,250

**Staff Contacts:**

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**Attachments:**

Halff Associates Design Concept Proposal

## **Baker Boulevard Intersection Improvements**

### **Rufe Snow Drive Intersection:**

1. Reconstruct and provide a dedicated right turn lane from westbound Baker Boulevard to northbound Rufe Snow Drive.
2. Overlay approximately 600' of Baker Boulevard surrounding the Rufe Snow Drive intersection.
3. Construct sidewalks on the north side of the intersection from the curb ramps to the existing sidewalks along Rufe Snow Drive.

### **Ash Park Drive/Vance Road Intersection:**

1. Realign Ash Park Drive to intersect Baker Boulevard directly across from Vance Road. This will eliminate the "offset" intersection and provide a "cross" intersection.
2. Reconstruct the Baker Boulevard intersection and signal for the realignment of Ash Park Drive.
3. Overlay approximately 600' of Baker Boulevard surrounding the Ash Park Drive/Vance Road intersection.
4. Construct an underground drainage system on the north side of Baker Boulevard at Vance Road to address nuisance drainage issues at this intersection.

### **Handley Ederville Road Intersection:**

1. Reconstruct the existing shoulder and install a dedicated right turn lane from eastbound Baker Boulevard to southbound Handley Ederville Road.
2. Overlay approximately 900' of Baker Boulevard surrounding the Handley Ederville Road intersection.

### **Baker Boulevard Corridor Improvements:**

1. Construct sidewalks along Baker Boulevard (on both the north and south side of the roadway) from Rufe Snow Drive to Handley Ederville Road.
2. Construct concrete curb and gutter along the outside shoulder edge of Baker Boulevard (on both the north and south side of roadway) beginning just west of the Ash Park Drive/Vance Road intersection and extending east to Handley Ederville Road.
3. Reconstruct driveways within the limits of the new curb and gutter along the outside edge of the pavement. Driveways will be reconstructed within the existing ROW to the extent required for grading and drainage of the driveway.
4. Construct intermittent retaining wall and drainage improvements (including culvert extensions) as necessary to accommodate the sidewalk, curb and gutter improvements.
5. Remove asphalt curb and gutter in the median and replace with concrete curb and gutter beginning at Matthews Drive and extending east to Handley Ederville Road.
6. Add pavement markings for a bicycle lane (on both the north and south side of the roadway) in the existing shoulder from Latham Road to Handley Ederville Road. The bicycle lane roughly follows the limits of the curb and gutter addition along the outside edge of pavement.



MATCH LINE - EXH.03

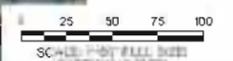
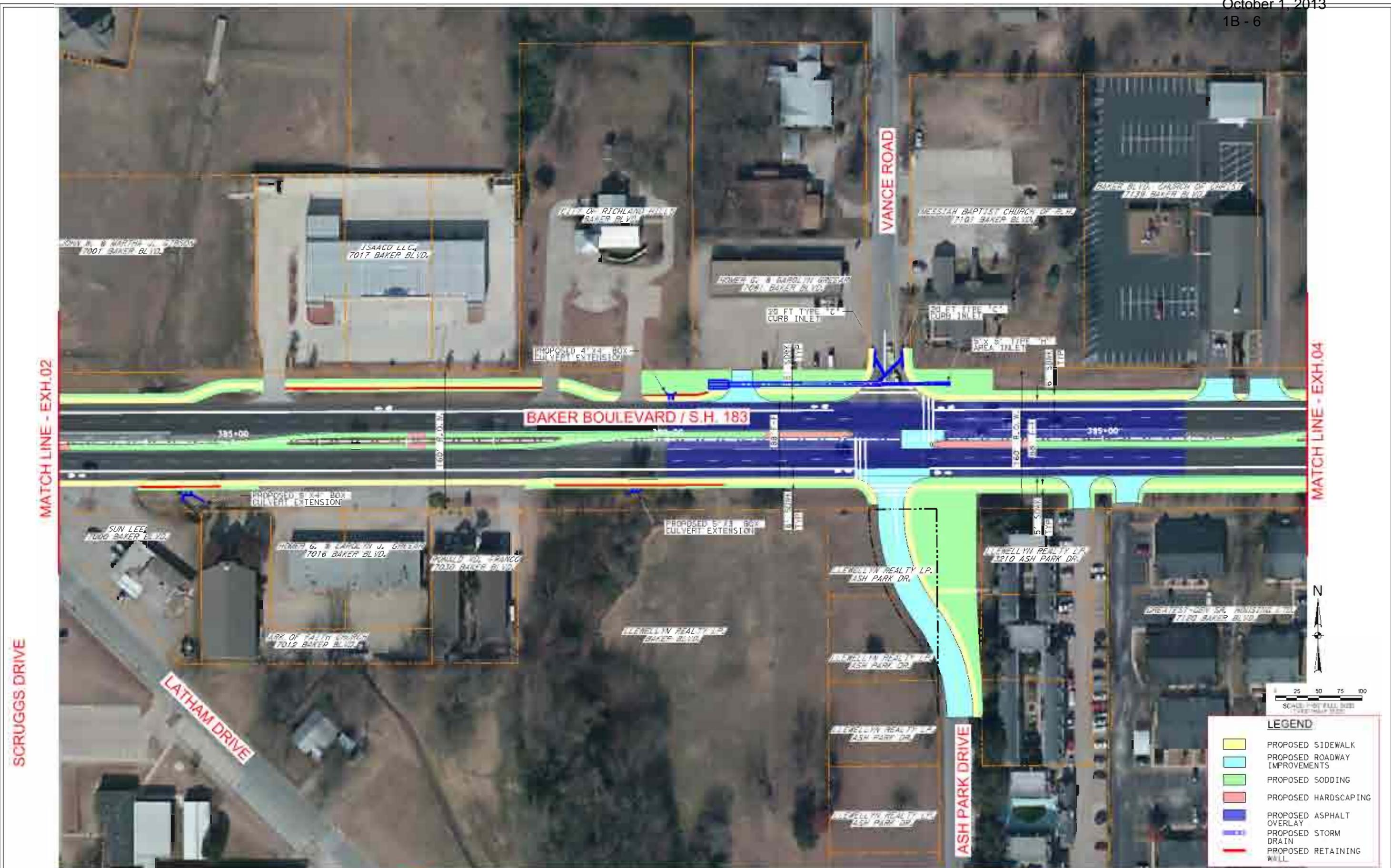
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	PROPOSED SIDEWALK
	PROPOSED ROADWAY IMPROVEMENTS
	PROPOSED SODDING
	PROPOSED HARDSCAPING
	PROPOSED STORM DRAIN

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<span style="display:inline-block; width:15px; height:15px; background-color:blue; border:1px solid black;"></span>	PROPOSED ASPHALT OVERLAY
<span style="display:inline-block; width:15px; height:15px; background-color:blue; border:1px dashed black;"></span>	PROPOSED STORM DRAIN
<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span>	PROPOSED RETAINING WALL



Project No.	29249
Issued	09/2013
Drawn By	HALFF
Checked By	HALFF
Scale	AS NOTED

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MATCH LINE - EXH.03



LEGEND	
	PROPOSED SIDEWALK
	PROPOSED ROADWAY IMPROVEMENTS
	PROPOSED SODDING
	PROPOSED HARDSCAPING
	PROPOSED STORM DRAIN
	PROPOSED RETAINING WALL

