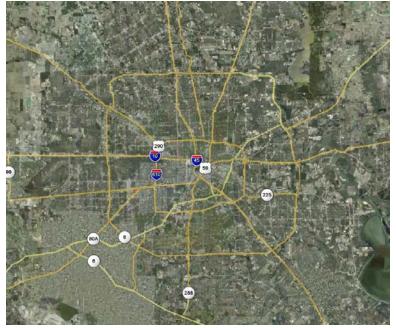
### **Transportation Group**



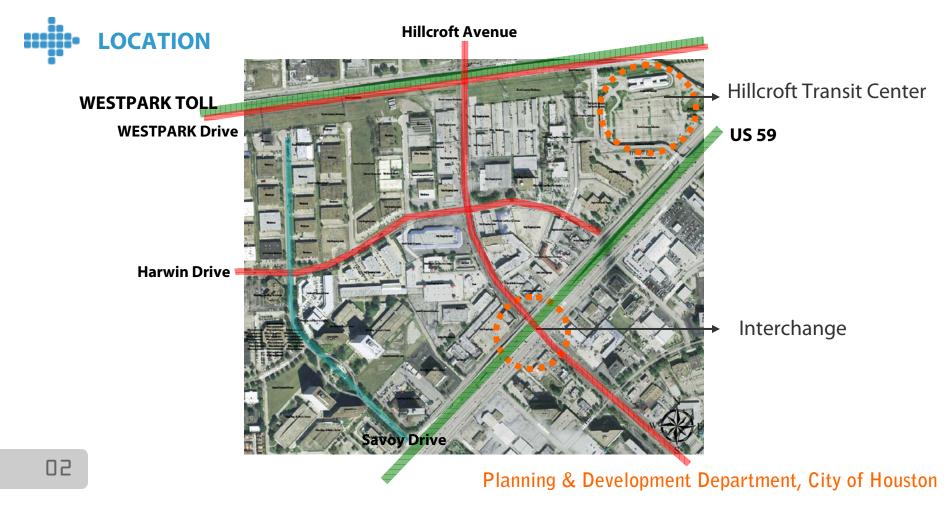




#### 2007 MTFP

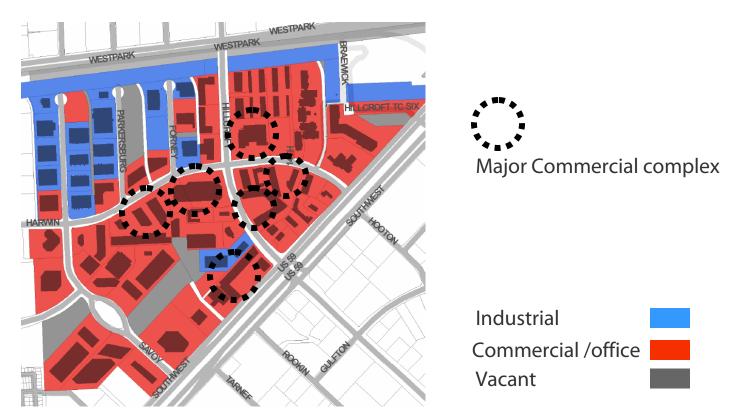
#### Planning & Development Department, City of Houston

### **Transportation Group**



### **Transportation Group**





### **Transportation Group**





### Transportation Group



#### **SCOPE OF WORK**

- Identifying the major driveways and to observe the existing roadway conditions
- documenting the traffic delays and Level of Service for the intersections and driveways
- Identifying possible deficiencies in the existing circulation system and to provide alternative improvements plans
- Recommending traffic improvement plans

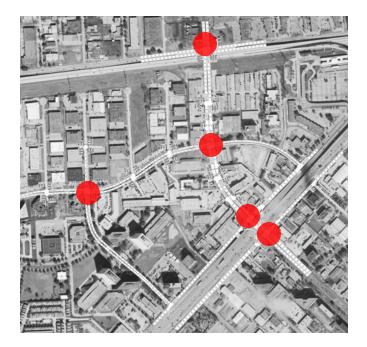


### **Transportation Group**



#### **RECOMMENDATION**

• Retime the existing five signals



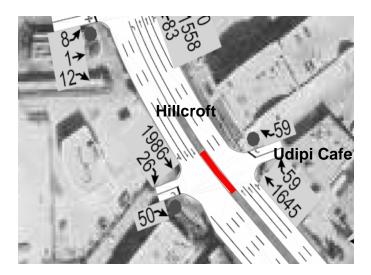
### **Transportation Group**

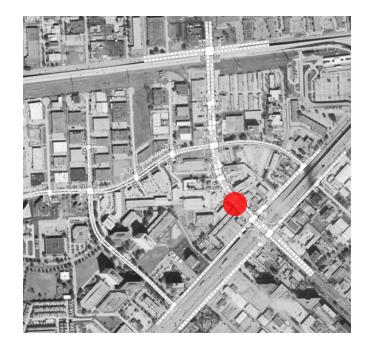
The Area adjacent to Hillcroft Avenue and Harwin Drive



#### RECOMMENDATION

• Close the median on Hillcroft adjacent to the Udipi café Driveway





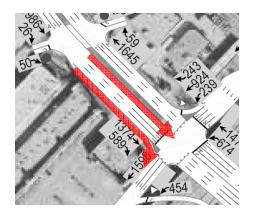
### **Transportation Group**

The Area adjacent to Hillcroft Avenue and Harwin Drive



#### RECOMMENDATION

- Extend the right turn only lane to 400 feet on the southbound approach of Hillcroft at the US 59 and Hillcroft intersection
- Extend the existing striping of the left turn only lane on the southbound approach of Hillcroft at the US 59 and Hillcroft intersection





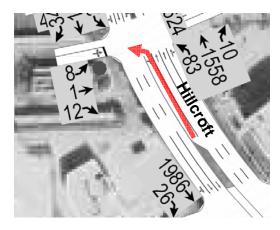
### **Transportation Group**

The Area adjacent to Hillcroft Avenue and Harwin Drive



#### RECOMMENDATION

 Extend the existing left turn storage lane to 150 feet on the northbound approach of Hillcroft at the Sonic restaurant driveway and Hillcroft intersection



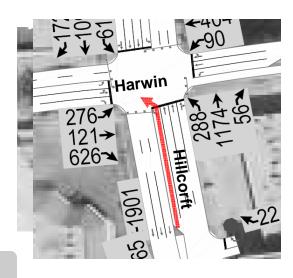


### **Transportation Group**



#### **RECOMMENDATION**

• Extend the existing left turn storage lane to 175 feet on the northbound approach of Hillcroft at the Harwin and Hillcroft intersection



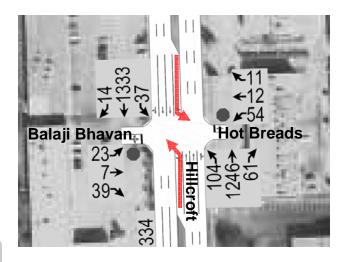


### **Transportation Group**



#### RECOMMENDATION

 Add left turn storage lanes of 100 feet on both south and northbound approaches of Hillcroft at the Hot Breads/Balaji Bhavan Driveways and Hillcroft intersection



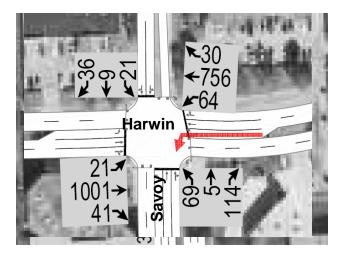


### **Transportation Group**



#### RECOMMENDATION

• Add left turn storage lane of 100 feet on eastbound approach of Harwin at the Savoy and Harwin intersection





### **Transportation Group**

The Area adjacent to Hillcroft Avenue and Harwin Drive



#### RECOMMENDATION

 Add right turn storage lane of 100 feet on westbound approach of US 59 at the Harwin and US 59 intersection





### **Transportation Group**

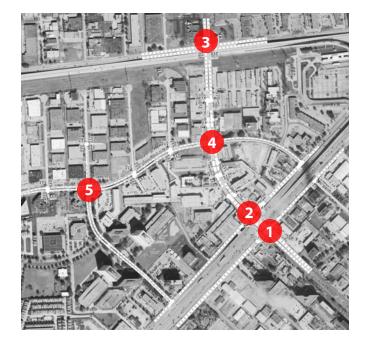
The Area adjacent to Hillcroft Avenue and Harwin Drive



#### **PROPOSED RESULT S**

#### Signalized Intersection

Intersection Name	Current Level of Service of Intersection	Level of Service of Intersection with Recommendations	
1. Hillcroft Avenue @ US 59 ESR	E	D	
2. Hillcroft Avenue @ US 59 WSR	E	D	
3. Hillcroft Avenue @ Westpark Drive	E	D	
4. Hillcroft Avenue @ Harwin Drive	E	D	
5. Harwin Drive @ Savoy Drive	A	А	



### **Transportation Group**

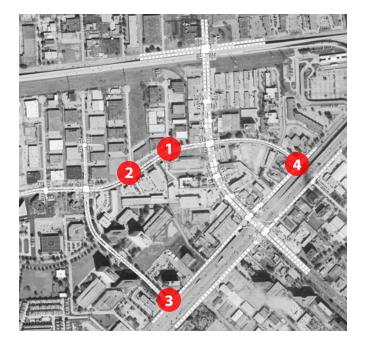
The Area adjacent to Hillcroft Avenue and Harwin Drive



#### **PROPOSED RESULT S**

#### Un-signalized Intersection

Intersection Name	Current Level of Service of Intersection	Level of Service of Intersection with Recommendations	
1. Harwin Drive @ Forney Drive	D	D	
2. Harwin Drive @ Parkersburg Drive	D	D	
3. Savoy Drive @ US 59 WSR	С	С	
4. Harwin Drive @ US 59 WSR	D	С	



### **Transportation Group**

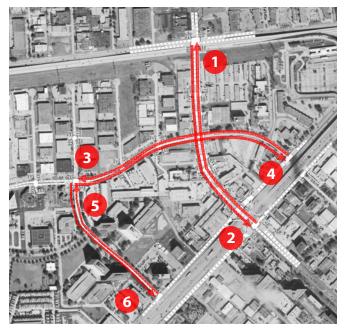
The Area adjacent to Hillcroft Avenue and Harwin Drive



#### **PROPOSED RESULT S**

#### Arterial Level Of Service

Arterial Name	Direction	From	То	Current Level of Service of Arterial	Level of Service of Arterial with Recommendations
1. Hillcroft Avenue	NB	US 59 ESR	Westpark Drive	F	F
2. Hillcroft Avenue	SB	US 59 ESR	Westpark Drive	F	F
3. Harwin Drive	EB	US 59 WSR	Savoy Drive	E	D
4. Harwin Drive	WB	US 59 WSR	Savoy Drive	E	D
5. Savoy Drive	NB	Harwin Drive	US 59 WSR	с	с
6. Savoy Drive	SB	Harwin Drive	US 59 WSR	с	c



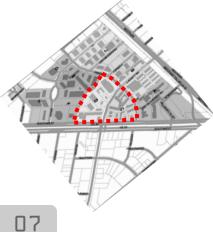
### **Transportation Group**



### **Transportation Group**







### **CIRCULATION STUDY** The Area adjacent to Hillcroft Avenue and Harwin Drive

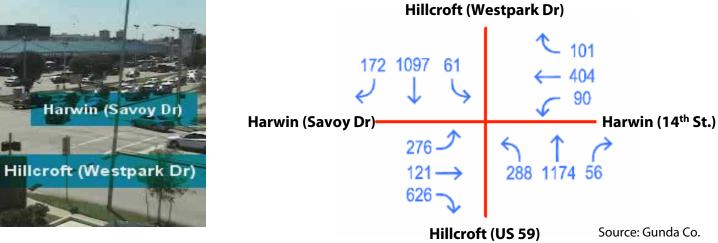
#### **TRAFFIC OBSERVATION**

Hillcroft (US 59)

Harwin (14th st)

Hillcroft Avenue @ Harwin Drive

**PILOT STUDY** 





### **Transportation Group**

#### 08



# **PILOT STUDY**

#### **TRAFFIC OBSERVATION**

Sonic / Hillcroft Shop Driveway @ Hillcroft Avenue

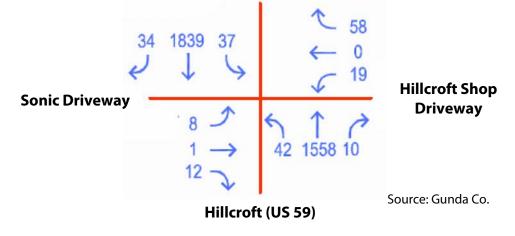
**CIRCULATION STUDY** 

The Area adjacent to Hillcroft Avenue and Harwin Drive







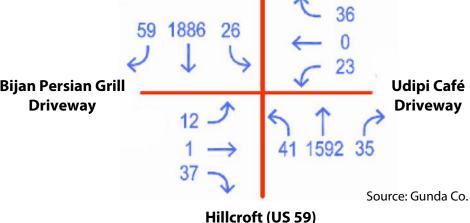


Hillcroft (Westpark Dr)

### **CIRCULATION STUDY** The Area adjacent to Hillcroft Avenue and Harwin Drive

#### **TRAFFIC OBSERVATION**

Bijan Persian Grill / Udipi Cafe Driveway @ Hillcroft Avenue



Hillcroft (Westpark Dr)

### **Transportation Group**





**Bijan Persian Grill** 

### **Transportation Group**



### **Transportation Group**



#### 09

### **CIRCULATION STUDY** The Area adjacent to Hillcroft Avenue and Harwin Drive

**EXISTING CONDITION** 

**PILOT STUDY** 

Pedestrian Crossing



#### **Transportation Group**

### **Transportation Group**



#### **EXISTING CONDITION**

Public Sidewalk



### **Transportation Group**



#### **EXISTING CONDITION**

**Private Sidewalk** 



### **Transportation Group**



Landscape



### **Transportation Group**



#### **EXISTING CONDITION**

**Public Transit** 



### **Transportation Group**



### **Transportation Group**



#### **EXISTING CONDTION**

Internal Vehicle Circulation

- 1. Inefficient driveway access management
- 2. Lack of internal connectors
  - Dead-end driveways
  - Separation between properties
  - Obstructions between driveways (ex. Garbage dumpster)

Existing Internal driveways



### **Transportation Group**

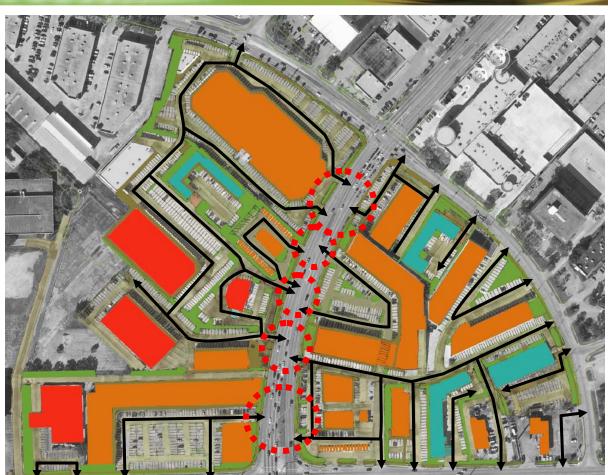


#### **EXISTING CONDTION**

Internal Vehicle Circulation

- 1. Inefficient driveway access management
- 2. Lack of internal connectors
  - Dead-end driveways
  - Separation between properties
  - Obstructions between driveways (ex. Garbage dumpster)

Existing Internal driveways



### **Transportation Group**



#### **EXISTING CONDTION**

Pedestrian Circulation

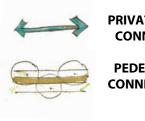
- 1. Lack of pedestrian connections between
  - C and D sections
  - Public and private sidewalks
  - Adjacent complexes
- 2. Lack of pedestrian environment
  - Inconsistent landscapes
  - Anti-pedestrian parking design
    (ex. front parking)

#### Planning & Development Department, City of Houston

**Existing sidewalk** 

### **Transportation Group**







PEDESTRIAN CONNECTIONS



### **Transportation Group**



PRIVATE STREET CONNECTORS PEDESTRIAN CONNECTIONS





### **Transportation Group**





PRIVATE STREET CONNECTORS

CONNECTORS PEDESTRIAN CONNECTIONS





### **Transportation Group**



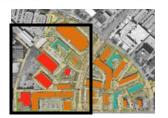


PRIVATE STREET CONNECTORS



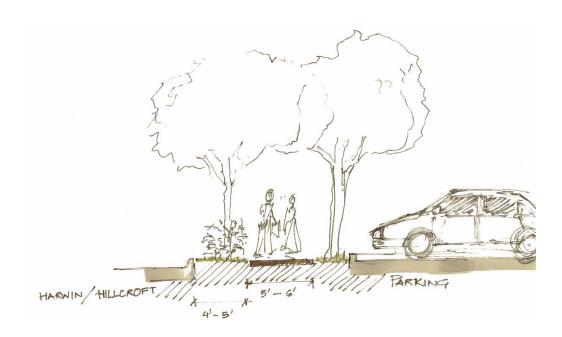
PEDESTRIAN





**Transportation Group** 



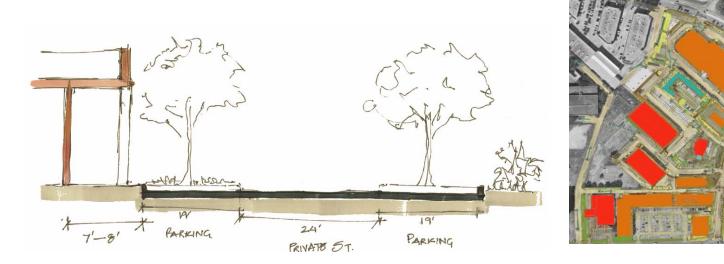




**Transportation Group** 



#### **DRIVEWAY/PRIVATE STREET SECTION**



#### **Transportation Group**



#### **DRIVEWAY/PRIVATE STREET SECTION**

