Bellaire Benchmark Station

Bellaire City Benchmark Sheet

Benchmark No. 1R

General Location: Top of Inlet at the Northeast Corner of Evergreen Street and West Loop 610 South Bound Feeder Road.

Latitude: 29° 41’ 54.939285” N
Longitude: 95° 27’ 34.146408” W
Grid Northing: 13,818,564.37
Grid Easting: 3,092,337.59
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.

Elevation: 50.59 NAVD88, 2001 Adj.


Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
**General Location:** Top of Inlet at the Northeast Corner of Oleander Street and Avenue B.

**Latitude:** 29° 42’ 4.795117” N  
**Longitude:** 95° 27’ 18.977190” W  
**Grid Northing:** 13,819,599.95  
**Grid Easting:** 3,093,644.52  
**State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.**  
**Elevation:** 49.72 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM2R”  
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

---

### Benchmark No. 2R

<table>
<thead>
<tr>
<th>Photo 1-Station Detail:</th>
<th>Photo 2-Station Area Picture:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Station Detail Photo" /></td>
<td><img src="image2.jpg" alt="Station Area Picture" /></td>
</tr>
</tbody>
</table>
**General Location:** Southeast Corner of Baldwin Avenue and Jonathan Street

<table>
<thead>
<tr>
<th>Benchmark No. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 29° 42’ 6.678710” N</td>
</tr>
<tr>
<td>Longitude: 95° 26’ 57.430782” W</td>
</tr>
<tr>
<td>Grid Northing: 13,819,847.75</td>
</tr>
<tr>
<td>Grid Easting: 3,095,537.92</td>
</tr>
<tr>
<td>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</td>
</tr>
<tr>
<td>Elevation: 49.81 NAVD88, 2001 Adj.</td>
</tr>
<tr>
<td>2” Brass Disk in Conc. Stamped “BM3”</td>
</tr>
<tr>
<td>Surveyed December 2004, Landtech Consultants, Inc.</td>
</tr>
<tr>
<td>Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot</td>
</tr>
</tbody>
</table>

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
**Bellaire Benchmark Station**

**General Location:** Southwest Corner of Baldwin Avenue and Vivian Street

<table>
<thead>
<tr>
<th>Benchmark No. 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VERTICAL CONTROL ONLY</strong></td>
</tr>
</tbody>
</table>

- **Elevation:** 48.07 NAVD88, 2001 Adj.
- 2” Brass Disk in Conc. Stamped “BM4”
- Surveyed December 2004, Landtech Consultants, Inc.
- No horizontal position established. Elevations were established using differential leveling.
- Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control.
- Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
Bellaire Benchmark Station

General Location: Southeast Corner of Newcastle and Edith Street, Between Corner of Brick Wall and Power Pole.

Latitude: 29° 41’ 26.326443” N
Longitude: 95° 27’ 3.632379” W
Grid Northing: 13,815,757.13
Grid Easting: 3,095,114.96
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.


2” Brass Disk in Conc. Stamped “BM5”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot
Bellaire
Benchmark
Station

Bellaire
City Benchmark Sheet

Benchmark No. 6R

General Location: Top of Inlet at the Northeast Corner of West Loop 610 North Bound Feeder Road and Maple Street.

Latitude: 29° 41’ 29.048684” N
Longitude: 95° 27’ 30.624902” W
Grid Northing: 13,815,959.82
Grid Easting: 3,092,727.18
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.
Elevation: 50.29 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM6R”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
### Bellaire Benchmark Sheet

#### General Location:
Northeast Corner of Avenue B and Braeburn Drive

| Latitude: | 29° 41’ 45.252227” N |
| Longitude: | 95° 27’ 18.968192” W |
| Grid Northing: | 13,817,626.89 |
| Grid Easting: | 3,093,705.14 |
| State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj. |
| Elevation: | 50.08 NAVD88, 2001 Adj. |

2” Brass Disk in Conc. Stamped “BM7”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

### Detail Sketch:

![Detail Sketch Diagram]

### Photo 1-Station Detail:
![Station Detail Image]

### Photo 2-Station Area Picture:
![Station Area Image]
**Bellaire Benchmark Station**

**Benchmark No. 8**

**General Location:** Center Sidewalk Northwest Corner of Braeburn Drive and Second Street, 100’ East of Datonia Street

**VERTICAL CONTROL ONLY**


Set 2” Brass Disk in Conc. Stamped “BM8”
Surveyed April 2004, Landtech Consultants, Inc.

No horizontal position. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
**Bellaire Benchmark Station**

**Bellaire City Benchmark Sheet**

**Benchmark No. 9**

**General Location:** Center of Median North of Intersection – South Rice Avenue and Maple Street

| Latitude: 29° 41’ 28.525603” N |
| Longitude: 95° 28’ 3.858519” W |
| Grid Northing: 13,815,818.38 |
| Grid Easting: 3,089,799.16 |
| State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj. |
| Elevation: 52.63 NAVD88, 2001 Adj. |

2” Brass Disk in Conc. Stamped “BM9”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
Bellaire
Benchmark
Station

Bellaire
City Benchmark Sheet

Benchmark No. 10R

General Location: Center of Median West of Intersection – Maple Street at Adler Street

Detail Sketch:

Latitude: 29° 41’ 27.669182” N
Longitude: 95° 28’ 49.332240” W
Grid Northing: 13,815,611.02
Grid Easting: 3,085,793.14
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.

Elevation: 54.25 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM10R”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot
**Bellaire Benchmark Station**

**Benchmark No. 11**

**General Location:** In Sidewalk at the Southeast Corner of Pine Street and Chimney Rock Road

<table>
<thead>
<tr>
<th>VERTICAL CONTROL ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation: 53.27 NAVD88, 2001 Adj.</td>
</tr>
</tbody>
</table>

2” Brass Disk in Conc. Stamped “BM11”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

- Pine Street
- Manhole
- Chimney Rock Road
- Fire Hydrant
- Sidewalk
- 46.3' 36' 11.6'

**Photo 1-Station Detail:**

[Image of station detail]

**Photo 2-Station Area Picture:**

[Image of station area]
**Bellaire City Benchmark Sheet**

**Benchmark No. 12**

**General Location:** Top of Inlet at the Southeast Corner of Evergreen Street and Carol Drive

**VERTICAL CONTROL ONLY**

Elevation: 53.85 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM12”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
### Bellaire Benchmark Station

### General Location:
In Existing Sidewalk at Southeast Corner of Evergreen Street and South Rice Avenue.

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>29° 41’ 54.067214” N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>95° 28’ 3.818399” W</td>
</tr>
<tr>
<td>Grid Northing:</td>
<td>13,818,397.22</td>
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<td>Grid Easting:</td>
<td>3,089,724.79</td>
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<tr>
<td>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</td>
<td></td>
</tr>
<tr>
<td>Elevation:</td>
<td>52.50 NAVD88, 2001 Adj.</td>
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</table>

2” Brass Disk in Conc. Stamped “BM13”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

### Photo 1-Station Detail:

![Station Detail Photo]

### Photo 2-Station Area Picture:

![Station Area Picture]
**General Location:** North Side of Jessamine Street at City of Bellaire Police Station

<table>
<thead>
<tr>
<th>Benchmark No. 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 29° 42’ 7.561582” N</td>
</tr>
<tr>
<td>Longitude: 95° 28’ 8.737174” W</td>
</tr>
<tr>
<td>Grid Northing: 13,819,746.54</td>
</tr>
<tr>
<td>Grid Easting: 3,089,250.07</td>
</tr>
<tr>
<td>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</td>
</tr>
<tr>
<td>2” Brass Disk in Conc. Stamped “BM14”</td>
</tr>
<tr>
<td>Surveyed December 2004, Landtech Consultants, Inc.</td>
</tr>
<tr>
<td>Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot</td>
</tr>
</tbody>
</table>

**Detail Sketch:**

![Detail Sketch](image)

**Photo 1-Station Detail:**

![Photo 1](image)

**Photo 2-Station Area Picture:**

![Photo 2](image)
### General Location:
Top of Inlet East Side of South Rice Avenue Between West Bound and East Bound Lanes of Bellaire Boulevard

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>29° 42’ 20.617253” N</td>
</tr>
<tr>
<td>Longitude</td>
<td>95° 28’ 4.118737” W</td>
</tr>
<tr>
<td>Grid Northing</td>
<td>13,821,076.97</td>
</tr>
<tr>
<td>Grid Easting</td>
<td>3,089,617.33</td>
</tr>
<tr>
<td>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</td>
<td></td>
</tr>
<tr>
<td>Elevation</td>
<td>54.66 NAVD88, 2001 Adj.</td>
</tr>
</tbody>
</table>


Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

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### Photo 1-Station Detail:
![Photo 1-Station Detail](image1)

### Photo 2-Station Area Picture:
![Photo 2-Station Area Picture](image2)
Bellaire
Benchmark Station

Bellaire
City Benchmark Sheet

Benchmark No. 16

General Location: Southwest Corner of Ferris Street and Dashwood Drive

VERTICAL CONTROL ONLY


2” Brass Disk in Conc. Stamped “BM16”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
Bellaire
Benchmark Station

Bellaire
City Benchmark Sheet

Benchmark No. 17

General Location: Northwest Corner of South Rice Avenue and Chestnut Street

Latitude: 29° 42’ 35.213853” N
Longitude: 95° 28’ 5.066846” W
Grid Northing: 13,822,548.15
Grid Easting: 3,089,489.24
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.


2” Brass Disk in Conc. Stamped “BM17”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
### Bellaire Benchmark Station

#### Bellaire City Benchmark Sheet

**BENCHMARK NO. 18**

**GENERAL LOCATION:** Southwest Corner of Woodlawn Place and Fifth Street

**Detail Sketch:**

- **VERTICAL CONTROL ONLY**
  
  Elevation: 54.61 NAVD88, 2001 Adj.
  
  2” Brass Disk in Conc. Stamped “BM18”
  
  Surveyed December 2004, Landtech Consultants, Inc.

  No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
**General Location:** Top of Inlet at the Southwest Intersection of Elm Street and Anderson Street

**Bellaire Benchmark Sheet**

**Benchmark No. 19R**

**VERTICAL CONTROL ONLY**

Elevation: 51.57 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM19R”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
Bellaire Benchmark Station

Bellaire City Benchmark Sheet

Benchmark No. 20R

General Location: Top of Inlet at the Southwest corner of Gulfton Dr. and S. Rice Avenue.

Latitude: 29° 42’ 59.403609” N
Longitude: 95° 28’ 5.492929” W
Grid Northing: 13,824,989.27
Grid Easting: 3,089,377.91
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.


Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
### Bellaire Benchmark Station

**Benchmark No. 21**

**General Location:** Southwest Corner of Imperial Street and Anderson Street

---

**VERTICAL CONTROL ONLY**

**Elevation:** 54.21 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM21”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

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**Detail Sketch:**

- Imperial Street
- Anderson Street
- Power Pole
- Sidewalk
- Walk
- Tree
- Stop Sign
- 30° Tree
- 19°
- 47°
- 9°

---

**Photo 1-Station Detail:**

![Benchmark Station Detail](image1)

**Photo 2-Station Area Picture:**

![Station Area Picture](image2)
Bellaire
Benchmark
Station

Bellaire
City Benchmark Sheet

Benchmark No.  22

General Location:  Back of Curb at Northwest Corner of Second Street and Terminal Street

VERTICAL CONTROL ONLY

Elevation:     53.46 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM22”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure:  U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
Bellaire Benchmark Station

Bellaire City Benchmark Sheet

Benchmark No. 23

General Location: Southwest Corner of Oakdale Drive and Avenue B

VERTICAL CONTROL ONLY

Elevation: 51.97 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM23”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
**Bellaire Benchmark Station**

**Benchmark No. 24**

**General Location:** Southwest Corner of Fournace Place and Newcastle Drive

<table>
<thead>
<tr>
<th>VERTICAL CONTROL ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation: 51.76 NAVD88, 2001 Adj.</td>
</tr>
</tbody>
</table>

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**
Bellaire Benchmark Station

General Location: Top of Inlet at the Northwest corner of Mulberry Ln. and Glenmont Dr.

Latitude: 29° 43’ 13.645512” N
Longitude: 95° 26’ 58.866663” W
Grid Northing: 13,826,605.01
Grid Easting: 3,095,206.05
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.
Elevation: 51.85 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM25R”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Photo 1-Station Detail:

Photo 2-Station Area Picture:
Bellaire Benchmark Station

<table>
<thead>
<tr>
<th>Bellaire City Benchmark Sheet</th>
<th>Benchmark No. 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Location: Southwest Corner of Headwall, North of Bissonnet Street and East of Railroad Tracks</td>
<td></td>
</tr>
</tbody>
</table>

| Latitude: 29° 43’ 5.192632” N |
| Longitude: 95° 26’ 51.232255” W |
| Grid Northing: 13,825,772.02 |
| Grid Easting: 3,095,904.77 |
| State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj. |
| Elevation: 53.50 NAVD88, 2001 Adj. |


Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
**Bellaire Benchmark Station**

**Bellaire City Benchmark Sheet**

**Benchmark No. 27**

**General Location:** Northeast Corner of Tennis Court in Mulberry Park, 0.1 Mile East of Mulberry Lane

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>29° 42’ 46.915621” N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>95° 26’ 53.329114” W</td>
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<tr>
<td>Grid Northing:</td>
<td>13,823,921.12</td>
</tr>
<tr>
<td>Grid Easting:</td>
<td>3,095,776.04</td>
</tr>
</tbody>
</table>

State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.

Elevation: 50.75 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM27”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

- Photo 1-Station Detail:
- Photo 2-Station Area Picture:
Bellaire
Benchmark Station

Bellaire
City Benchmark Sheet

Benchmark No. 28R

General Location: Top of Inlet at the Northwest corner of Newcastle and Park Ct.

VERTICAL CONTROL ONLY

Elevation: 51.11 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM28R”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling.
Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
Bellaire
Benchmark
Station

Bellaire
City Benchmark Sheet

Benchmark No. 29

General Location: Median Island Nose East of Mulberry Lane on Bellaire Boulevard

Latitude: 29° 42’ 21.194523” N
Longitude: 95° 26’ 57.637422” W
Grid Northing: 13,821,312.74
Grid Easting: 3,095,475.20
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.

Elevation: 51.41 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM29”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
**Bellaire City Benchmark Sheet**

**General Location:** East End of the Parking Lot for the Evergreen Park Swimming Pool. North End of Concrete Island.

<table>
<thead>
<tr>
<th>Benchmark No. 30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Latitude:</strong> 29° 41’ 54.696518” N</td>
</tr>
<tr>
<td><strong>Longitude:</strong> 95° 27’ 6.511065” W</td>
</tr>
<tr>
<td><strong>Grid Northing:</strong> 13,818,613.71</td>
</tr>
<tr>
<td><strong>Grid Easting:</strong> 3,094,774.27</td>
</tr>
<tr>
<td><strong>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</strong></td>
</tr>
<tr>
<td><strong>Elevation:</strong> 50.73 NAVD88, 2001 Adj.</td>
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</table>


Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1—Station Detail:**

**Photo 2—Station Area Picture:**
Bellaire
Benchmark Station

Bellaire City Benchmark Sheet

Benchmark No. 31R

General Location: Top of Curb Southwest Corner of Jessamine Street and First Street.

VERTICAL CONTROL ONLY

Elevation: 52.03 NAVD88, 2001 Adj.

2” Brass Disk in Conc. Stamped “BM31R”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
### Bellaire Benchmark Station

**General Location:** Top of Inlet at the Southwest corner of Bellaire Boulevard and West Loop 610 South Bound Feeder Road.

### Benchmark No. 32R

<table>
<thead>
<tr>
<th>VERTICAL CONTROL ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation: 50.48 NAVD88, 2001 Adj.</td>
</tr>
</tbody>
</table>

2” Brass Disk in Conc. Stamped “BM32R”
Surveyed December 2004, Landtech Consultants, Inc.

No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

### Photo 1-Station Detail:

![Photo 1-Station Detail](image1)

### Photo 2-Station Area Picture:

![Photo 2-Station Area Picture](image2)
**Bellaire Benchmark Station**

### Benchmarks No. 33R

**General Location:** East Median on Top of North Concrete Wall at the Intersection of Bellaire Boulevard and West Loop 610 North Bound Feeder Road

<table>
<thead>
<tr>
<th>Benchmark No. 33R</th>
<th>Photo 1-Station Detail:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Latitude:</strong> 29° 42’ 20.871680” N</td>
<td><img src="image1.jpg" alt="Station Detail Photo" /></td>
</tr>
<tr>
<td><strong>Longitude:</strong> 95° 27’ 30.973494” W</td>
<td><strong>Photo 2-Station Area Picture:</strong> <img src="image2.jpg" alt="Area Picture" /></td>
</tr>
<tr>
<td><strong>Grid Northing:</strong> 13,821,191.03</td>
<td></td>
</tr>
<tr>
<td><strong>Grid Easting:</strong> 3,092,537.96</td>
<td></td>
</tr>
<tr>
<td><strong>State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Elevation:</strong> 54.20 NAVD88, 2001 Adj.</td>
<td></td>
</tr>
<tr>
<td><strong>2” Brass Disk in Conc. Stamped “BM33R”</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Surveyed December 2004, Landtech Consultants, Inc.</strong></td>
<td></td>
</tr>
</tbody>
</table>

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot.
Bellaire Benchmark Station

General Location: Northeast Intersection Median of Bissonnet Street and the West Loop 610 South Bound Feeder Road.

VERTICAL CONTROL ONLY

Elevation: 51.36 NAVD88, 2001 Adj.


No horizontal position established. Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

Detail Sketch:

Photo 1-Station Detail:

Photo 2-Station Area Picture:
Bellaire Benchmark Station

General Location: Top of Inlet at the Northeast corner of Bissonnet Street and West Loop North Bound Feeder Road.

Latitude: 29° 42’ 43.602468” N  
Longitude: 95° 27’ 34.143057” W  
Grid Northing: 13,823,477.52  
Grid Easting: 3,092,189.10  
State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj.  
Elevation: 50.63 NAVD88, 2001 Adj.  

2” Brass Disk in Conc. Stamped “BM35R”  
Surveyed December 2004, Landtech Consultants, Inc.  

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot
**Bellaire Benchmark Station**

**Bellaire City Benchmark Sheet**

**Benchmark No. 36**

**General Location:** Concrete Island at Feld Park – East End. Approx. 100’ North of Palmetto Street west of Avenue B.

| Latitude: | 29° 42’ 43.141402” N |
| Longitude: | 95° 27’ 20.300916” W |
| Grid Northing: | 13,823,467.93 |
| Grid Easting: | 3,093,410.48 |
| State Plane Coordinates, Texas South Central Zone (4204), NAD83, 2001 Adj. | |
| Elevation: | 53.50 NAVD88, 2001 Adj. |

2” Brass Disk in Conc. Stamped “BM36”
Surveyed December 2004, Landtech Consultants, Inc.

Horizontal positions were established using GPS (RTK). Elevations were established using differential leveling. Harris County FEMA (TSARP) Benchmarks 040150, 040165 and 210195 were held for horizontal and vertical control. Unit of Measure: U. S. Survey Foot

**Detail Sketch:**

**Photo 1-Station Detail:**

**Photo 2-Station Area Picture:**