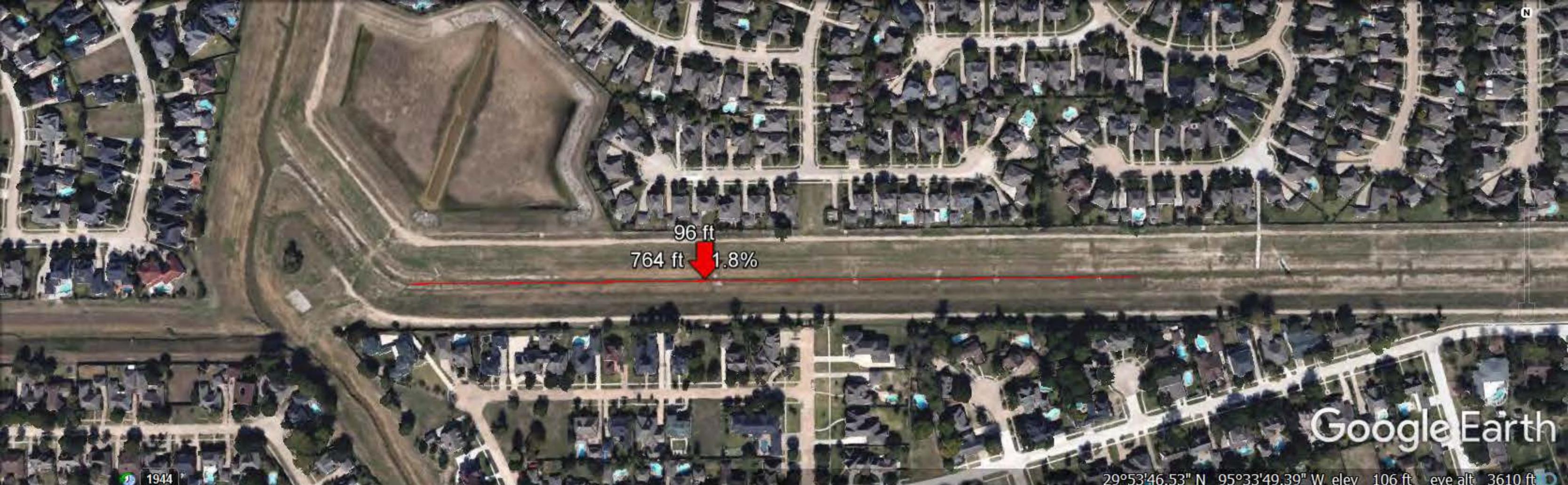


## Jersey Village City Council Meeting July 17, 2017

### Fred W. Ziehe public comments

- As you will recall, I stated at the most recent Flood Town Hall meeting, that water in the By-Pass flows in the wrong direction during certain stages of flooding
- Attached (and presented) are dip lines along the length and cross section lines across the By-Pass using Google Earth.
- The first four (4) dip lines are taken in the center of the By-Pass from West to East.
  - Essentially flat and even increasing in elevation going to the Beltway (i.e., the wrong dip)... 94' to 97' elevation
  - The correct dip does not occur until right before getting to the Beltway, where it does appear to dip in the correct direction....92' to 93' elevation
  - While Google Earth may have some averaging issues occurring, these confirm our observations that water flows in the wrong direction in the By-Pass during certain stages of flooding
- The next six (6) slides show the shape of the cross-sections of the channel and also confirm that the elevation at the bottom of the channel is NOT dipping downstream, but instead is generally flat and/or increasing in elevation as you move towards the Beltway.....94' to 96' elevation
  - Again, not until you get right before the Beltway, do you see the correct direction of the dip to be at about 93'
- We met with Dannenbaum on July 6, 2017, who indicated the By-Pass had a 5' dip in the By-Pass, based on a "Post Construction" survey report from HCFCD prepared at the time of building the By-Pass.
  - We questioned if the **current conditions** in the By-Pass agree with that survey
  - I have asked for that report, but not received it yet, as of today.
  - They mentioned issues with the construction of the By-Pass due to water and sand issues and had to add rip rap into the By-Pass during construction
  - They were not able to go as deep as originally planned
- I believe this confirms the need to re-survey the By-Pass to determine the elevations that exist in it today.
  - I believe the City/Dannenbaum should undertake this effort and am asking you to do so



Google Earth

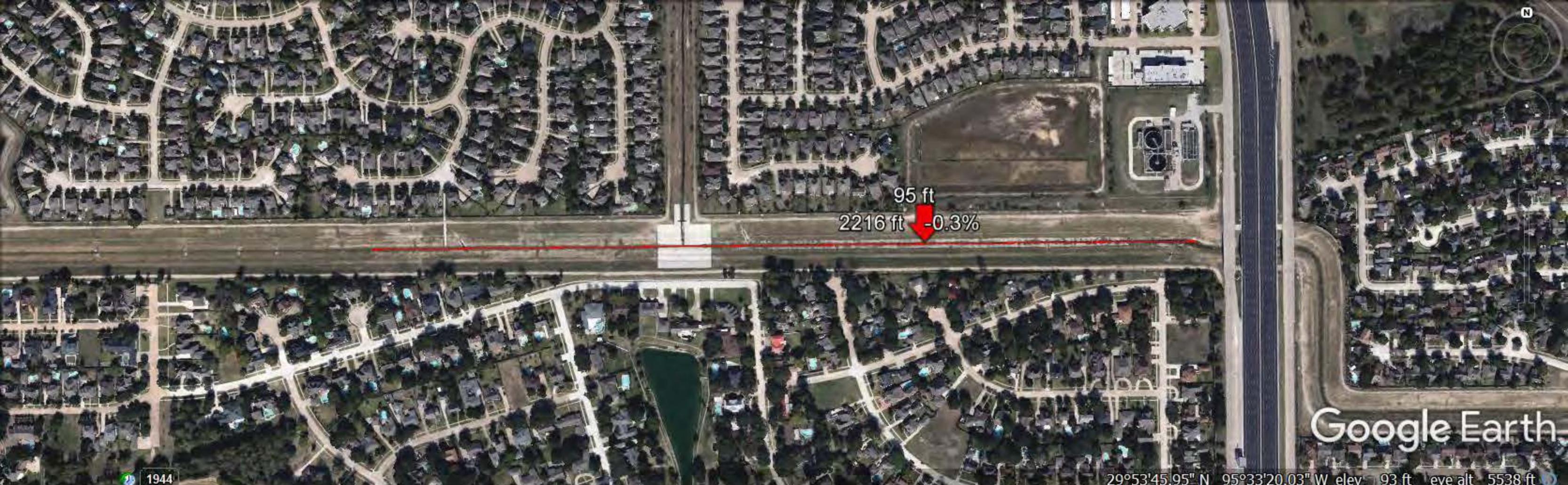
29°53'46.53" N 95°33'49.39" W elev 106 ft eye alt 3610 ft

1944

Graph: Min, Avg, Max Elevation: 93, 95, 97 ft  
Range Totals: Distance: 1881 ft Elev Gain/Loss: 11.5 ft, -9.47 ft Max Slope: 15.9%, -6.3% Avg Slope: 1.0%, -1.1%

97 ft  
93 ft



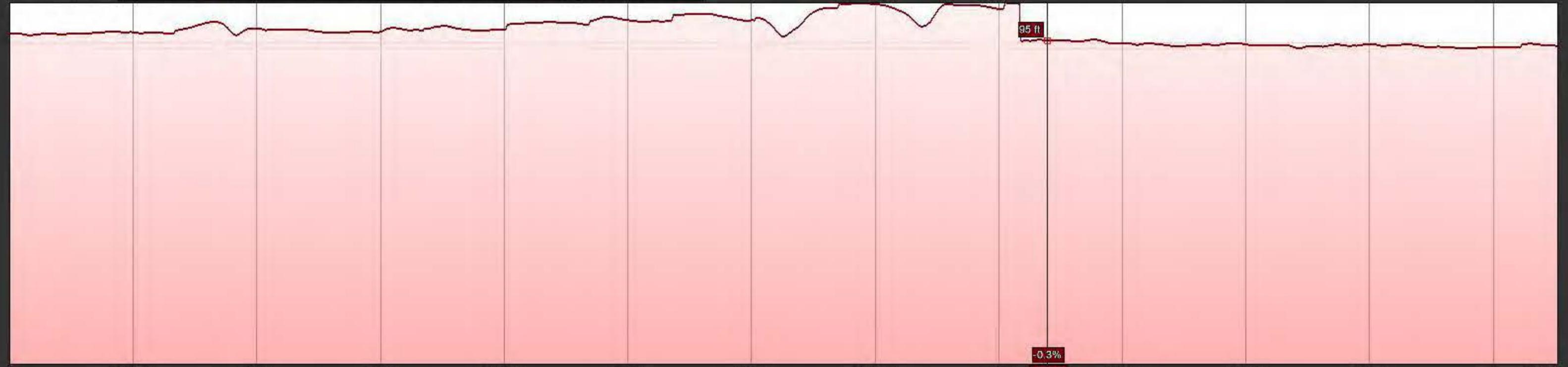


29°53'45.95" N 95°33'20.03" W elev 93 ft eye alt 5538 ft

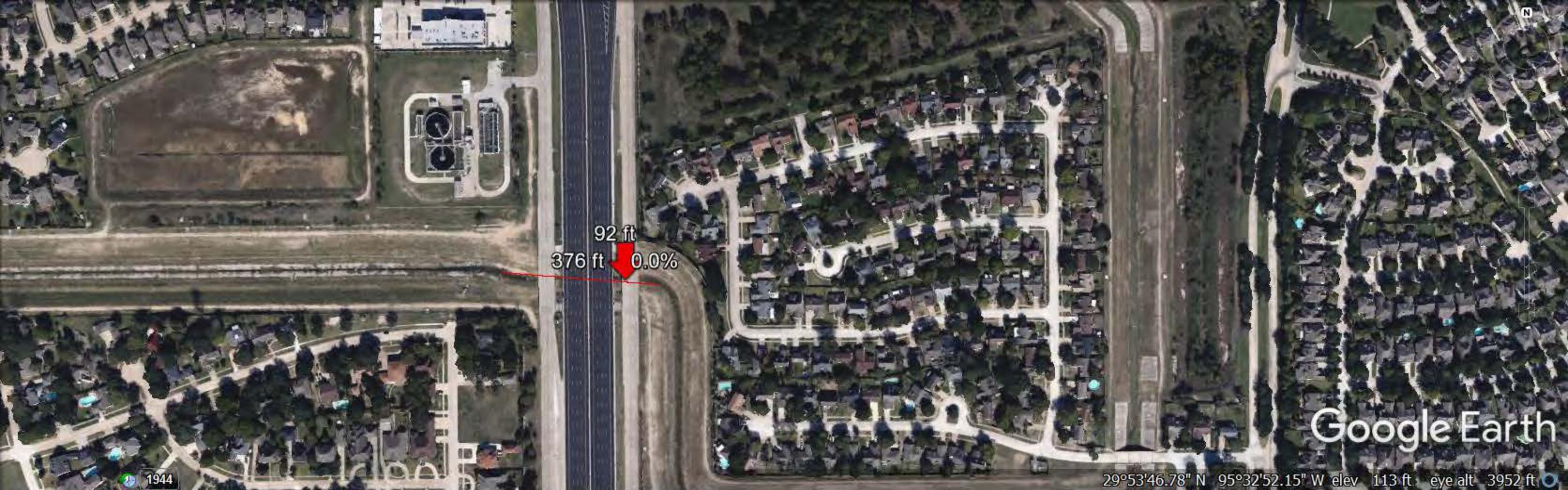
Graph: Min, Avg, Max Elevation: 94, 96, 99 ft

Range Totals: Distance: 0.63 mi Elev Gain/Loss: 16.7 ft, -17.9 ft Max Slope: 7.8%, -39.1% Avg Slope: 1.0%, -1.0%

99 ft  
94 ft



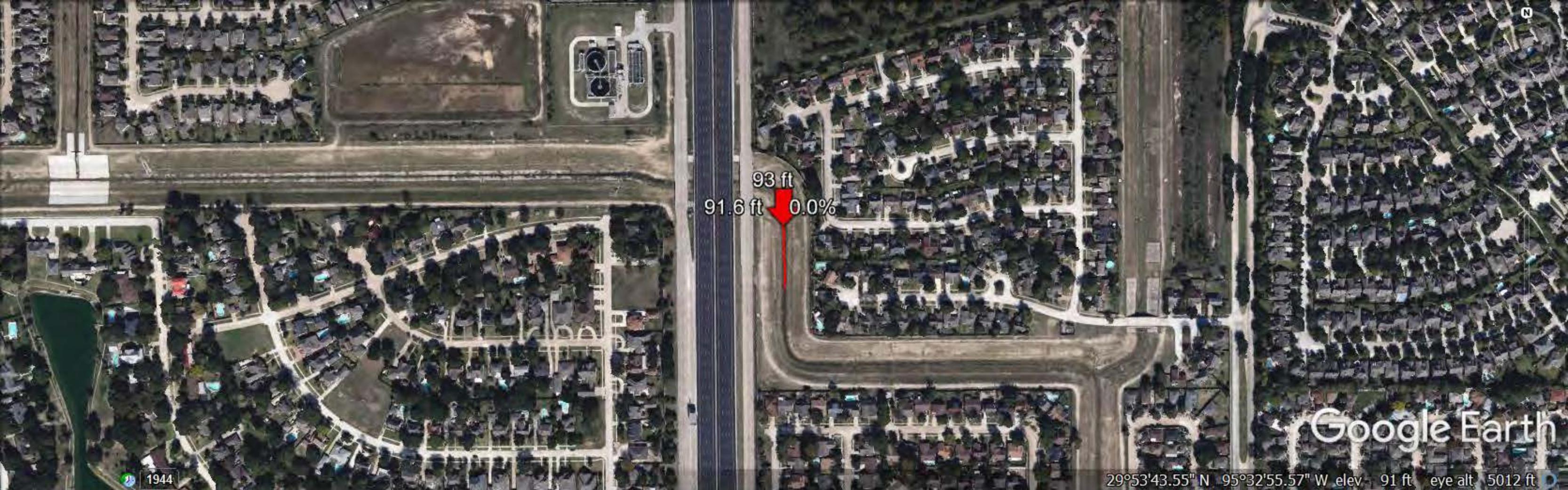
0.05 mi 0.10 mi 0.15 mi 0.20 mi 0.25 mi 0.30 mi 0.35 mi 0.40 mi 0.45 mi 0.50 mi 0.55 mi 0.63 mi



29°53'46.78" N 95°32'52.15" W elev 113 ft eye alt 3952 ft

Graph: Min, Avg, Max Elevation: 92, 94, 107 ft  
Range Totals: Distance: 478 ft Elev Gain/Loss: 31.4 ft, -18.0 ft Max Slope: -, -95.6% Avg Slope: -, -91.3%

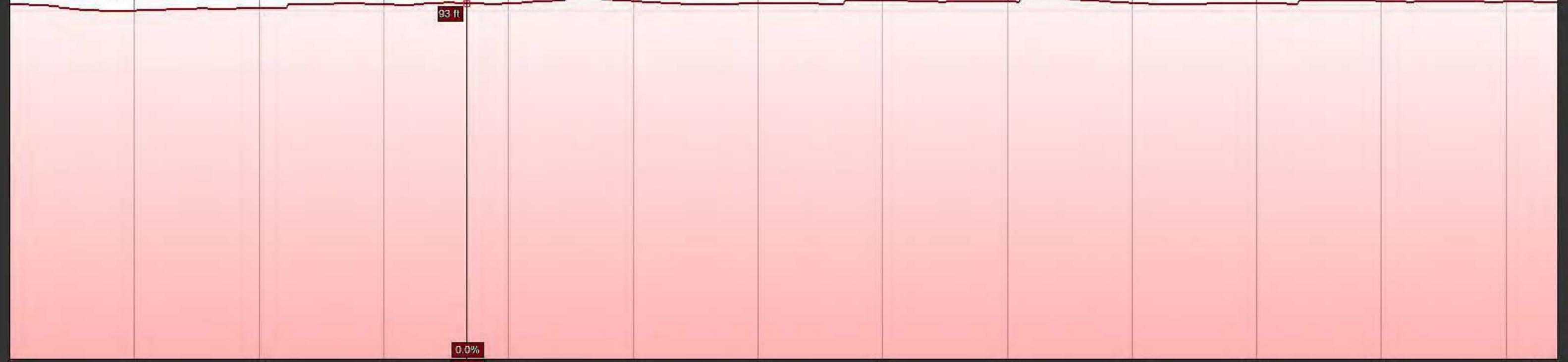




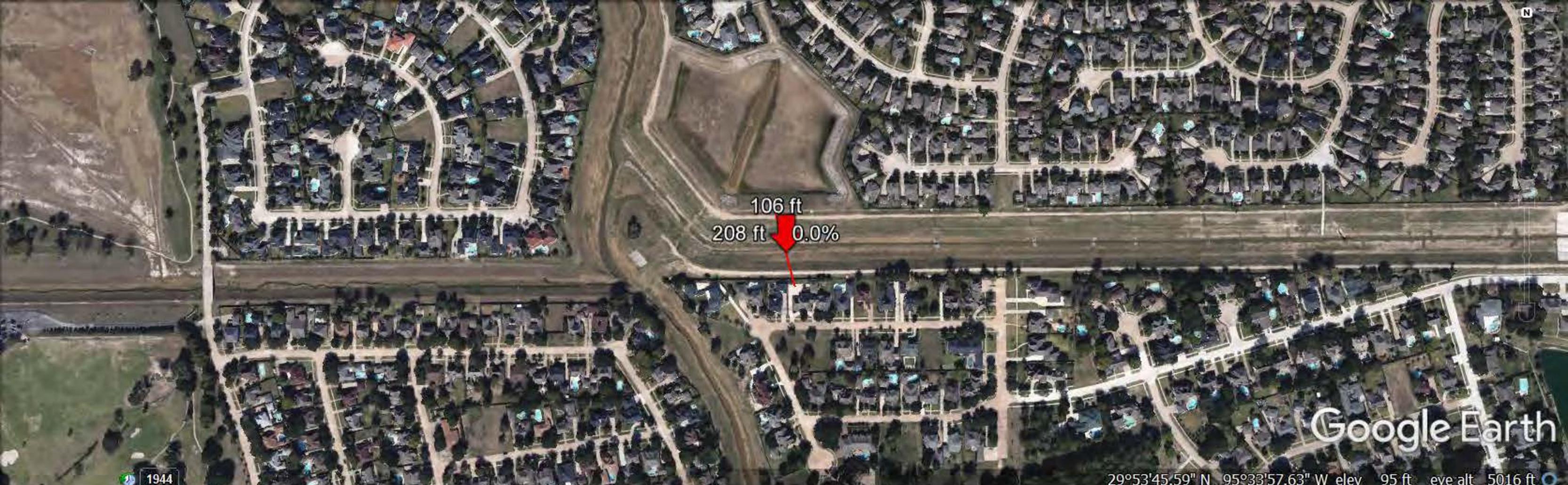
29°53'43.55" N 95°32'55.57" W elev 91 ft eye alt 5012 ft

Graph: Min, Avg, Max Elevation: 92, 93, 93 ft  
Range Totals: Distance: 310 ft Elev Gain/Loss: 2.84 ft, -2.65 ft Max Slope: -, - Avg Slope: -, -

93 ft



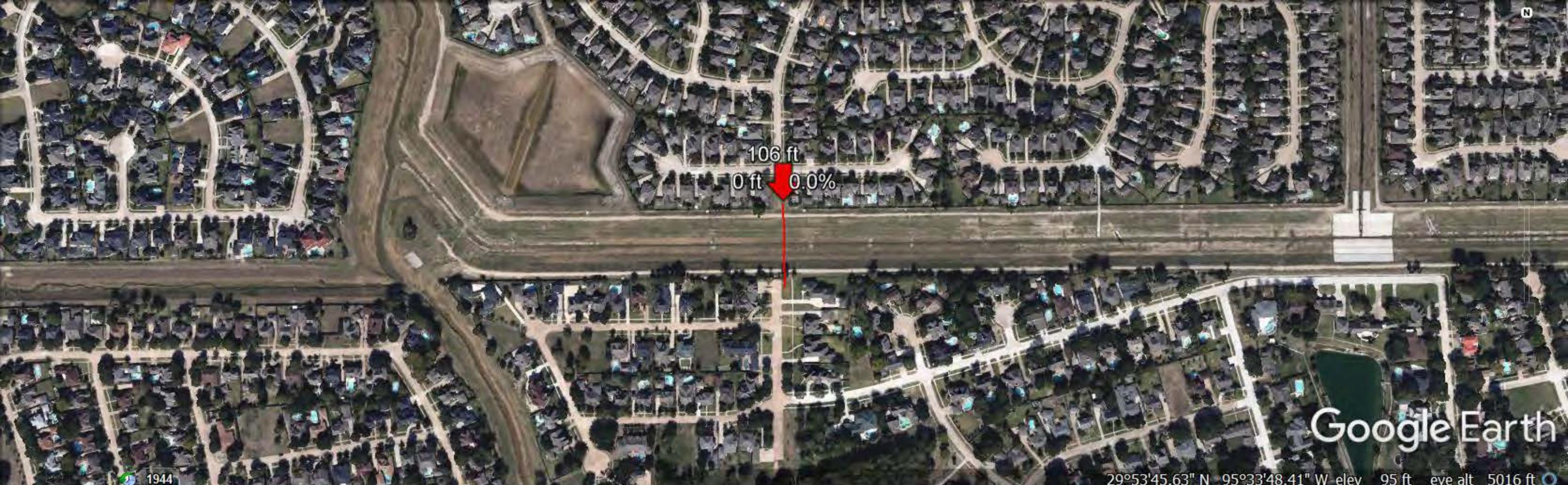
25 ft 50 ft 75 ft 91.6 ft 100 ft 125 ft 150 ft 175 ft 200 ft 225 ft 250 ft 275 ft 310 ft



29°53'45.59" N 95°33'57.63" W elev 95 ft eye alt 5016 ft

Graph: Min, Avg, Max Elevation: 94, 103, 107 ft  
Range Totals: Distance: 341 ft Elev Gain/Loss: 28 ft, -28.2 ft Max Slope: -, -95.2% Avg Slope: -, -91.9%



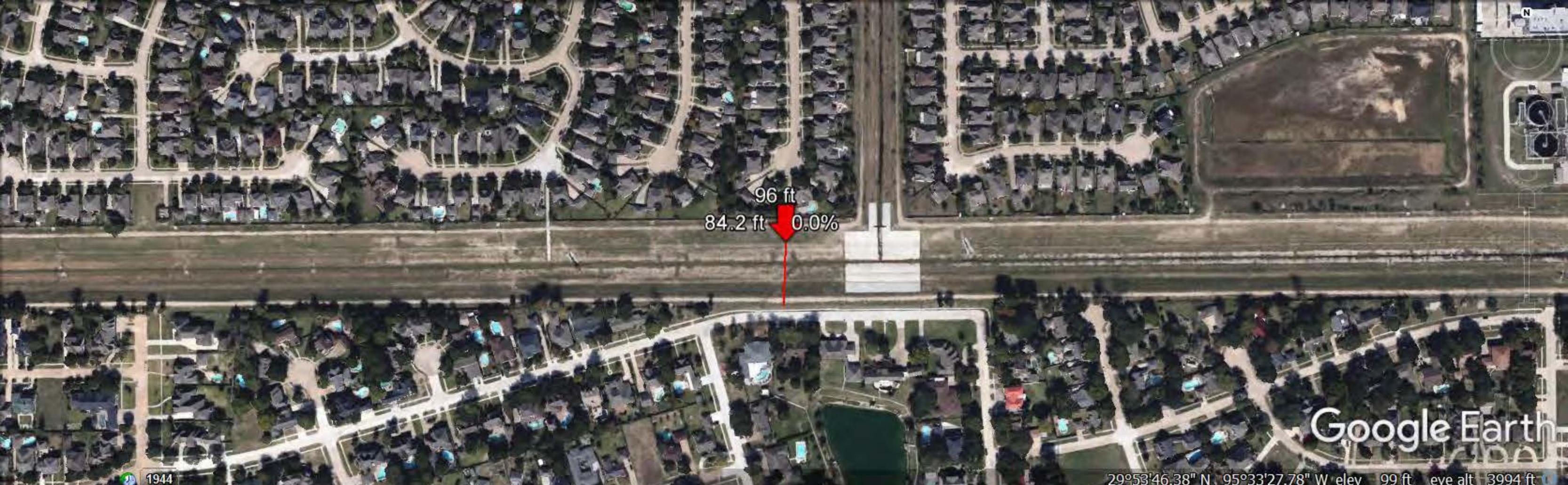


Google Earth

29°53'45.63" N 95°33'48.41" W elev 95 ft eye alt 5016 ft

Graph: Min, Avg, Max Elevation: 95, 103, 106 ft  
Range Totals: Distance: 330 ft Elev Gain/Loss: 17.4 ft, -19.3 ft Max Slope: -, -92.9% Avg Slope: -, -88.4%

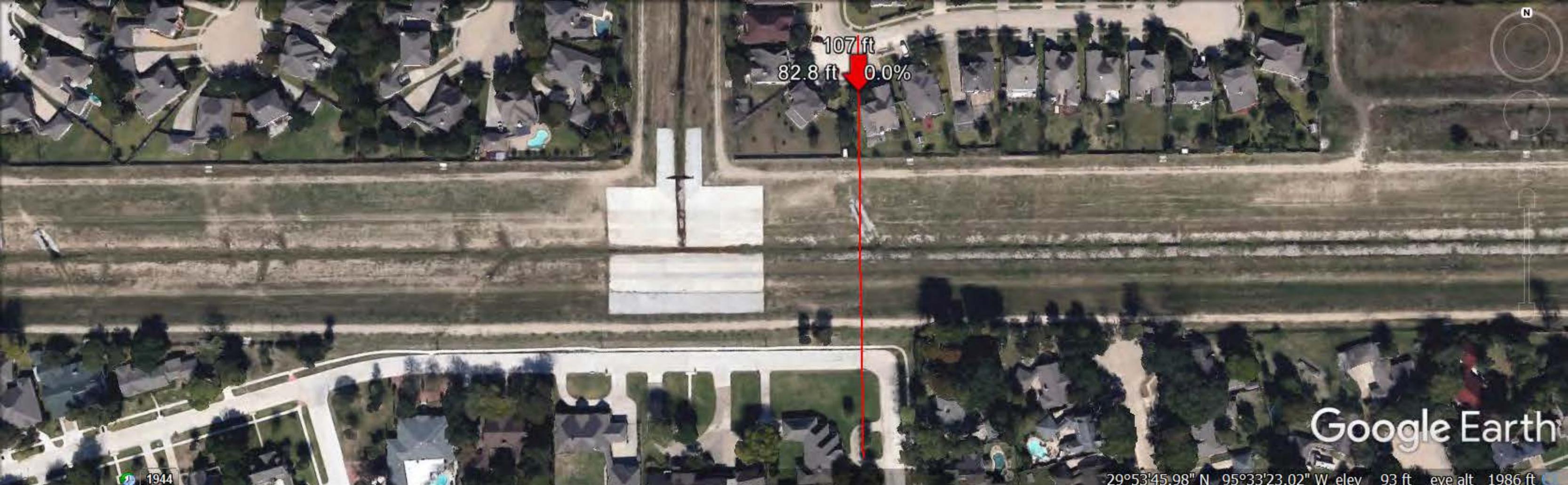




29°53'46.38" N 95°33'27.78" W elev 99 ft eye alt 3994 ft

Graph: Min, Avg, Max Elevation: 96, 104, 109 ft  
Range Totals: Distance: 285 ft Elev Gain/Loss: 21.8 ft, -24.2 ft Max Slope: -, -95.8% Avg Slope: -, -92.3%

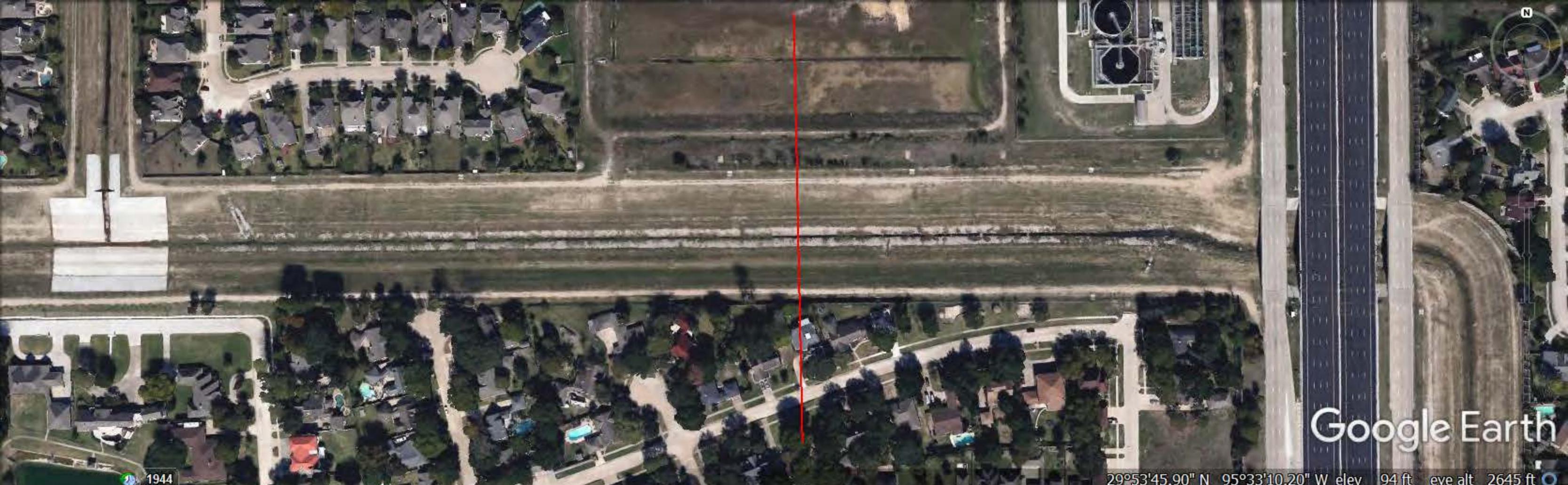




29°53'45.98" N 95°33'23.02" W elev 93 ft eye alt 1986 ft

Graph: Min, Avg, Max Elevation: 95, 105, 107 ft  
Range Totals: Distance: 599 ft Elev Gain/Loss: 19 ft, -18.1 ft Max Slope: -, - Avg Slope: -, -



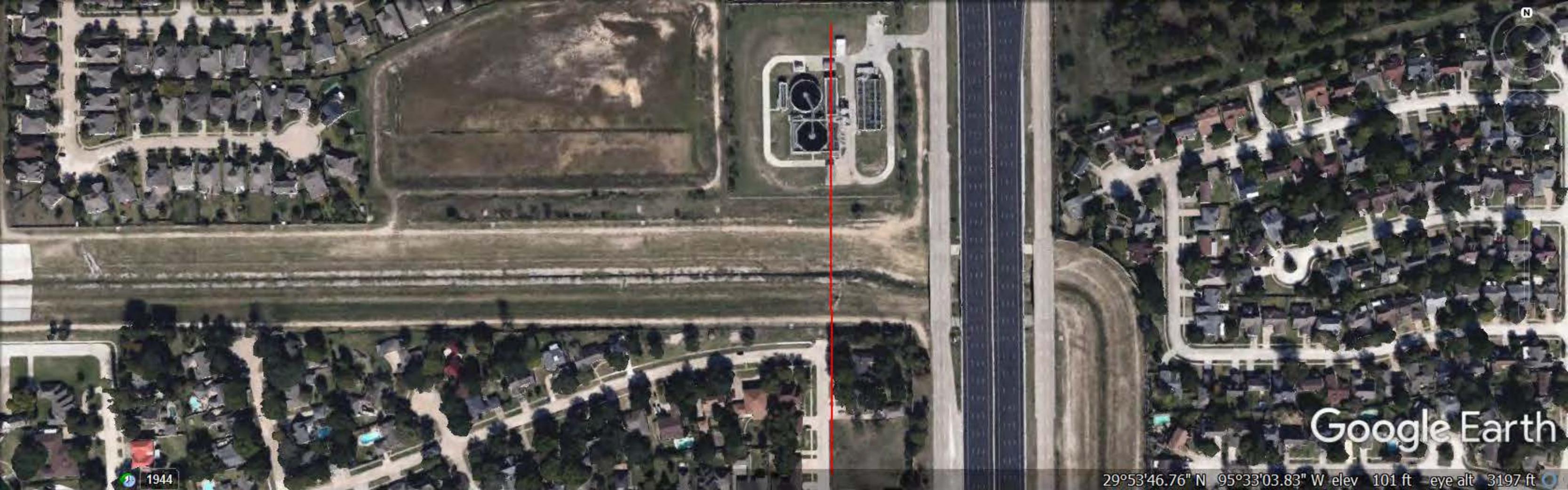


Google Earth

29°53'45.90" N 95°33'10.20" W elev 94 ft eye alt 2645 ft

Graph: Min, Avg, Max Elevation: 95, 104, 107 ft  
Range Totals: Distance: 825 ft Elev Gain/Loss: 31 ft, -25.4 ft Max Slope: 41.6%, -57.3% Avg Slope: 0.2%, -47.3%





29°53'46.76" N 95°33'03.83" W elev 101 ft eye alt 3197 ft

Graph: Min, Avg, Max Elevation: 93, 105, 108 ft

Range Totals: Distance: 1040 ft Elev Gain/Loss: 19.6 ft, -21.8 ft Max Slope: 30.5%, -30.6% Avg Slope: 3.9%, -3.8%

