Lake Houston/Kingwood Area Mobility Study
Alternative A: Intersection Improvements

Legend

- Intersection Improvements
- Mills Branch Improvements
- 2020 Level of Service - Alternative A
  - A; B; C; D
  - E; F
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (in 2034):
  - Before: 1,176 Hours (AM); 1,963 Hours (PM)
  - After: 1,008 Hours (AM); 1,252 Hours (PM)
  - Reduction: 15% (AM); 31% (PM)
- Total Delay (in 2020):
  - Before: 1,680 Hours (AM); 3,848 Hours (PM)
  - After: 1,502 Hours (AM); 2,131 Hours (PM)
  - Reduction: 23% (AM); 31% (PM)
- Cost of Improvements = $16.35 MILLION
- Crash Reduction = 52.50%
- Tree Impacts = < 10%
Lake Houston/Kingwood Area Mobility Study

Alternative B: Left Turn Prohibition

(During AM Peak - Eastbound Left Turns Prohibited, During PM Peak - Westbound Left Turns Prohibited)

Legend

2020 Level of Service - Alternative B

- A; B; C; D
- E; F
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (In 2014)
  - Before: 1,376 Hours (AM), 1,960 Hours (PM)
  - After: 1,012 Hours (AM), 1,706 Hours (PM)
  - Reduction: 22% (AM), 13% (PM)

- Total Delay (In 2020)
  - Before: 1,689 Hours (AM), 2,809 Hours (PM)
  - After: 1,350 Hours (AM), 2,058 Hours (PM)
  - Reduction: 17% (AM), 9% (PM)

- Cost = $4.4 Million
- Tree Impacts = 0%
- Crash Reduction = 30%
Legend

- Kingwood Six Lane
- 2020 Level of Service - Alternative C
- A, B, C, D
- E, F
- Major Thoroughfare
- County Line
- Park
- Water
- Kingwood

- Total Delay (in 2020):
  - Before: 1,089 Hours (PM), 1,849 Hours (PM)
  - After: 1,094 Hours (PM), 1,848 Hours (PM)
  - Reduction: 36% (AM), 15% (PM)
- Cost of Improvements: $132.2 Million
- Crash Reduction: 60%
- Tree Impacts: < 10%
Lake Houston/Kingwood Area Mobility Study

Alternative F: North Park Drive Direct Connector (North Park Drive to Southbound US 59)

Legend

- **2020 Level of Service - Alternative F**
  - A; B; C; D
  - E; F
- North Park Direct Connector
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (in 2020):
  - Before: 1,680 Hours (AM); 2,840 Hours (PM)
  - After: 1,536 Hours (AM); 2,714 Hours (PM)
  - Reduction: 9% (AM); 20% (PM)
- Cost of the Improvement: $50.52 Million
- Tree Impacts: <10%
- Crash Reduction: 15%
Lake Houston/Kingwood Area Mobility Study
Alternative H: North Park Drive Six Lane + North Park Drive Direct Connector

Legend
- North Park Six Lane
- North Park Direct Connector
- 2020 Level of Service - Alternative H
- A, B, C, D
- E, F
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (in 2020):
  - Before: 1,690 Hours (AM) / 2,840 Hours (PM)
  - After: 1,535 Hours (AM) / 1,980 Hours (PM)
  - Reduction: 40% (AM) / 30% (PM)
- Cost of the Improvement: $77.6 Million
- Tree Impacts: < 10%
- Crash Reduction: 50%
Lake Houston/Kingwood Area Mobility Study

Alternative I: Kingwood Drive Six Lane + Kingwood Drive Direct Connector + North Park Drive Six Lane + North Park Drive Direct Connector

Legend

- 2020 Level of Service - Alternative I
  - A, B, C, D
  - E, F
- 2020 Level of Service - Alternative II
  - A, B, C, D
  - E, F
- Kingwood Six Lane
- North Park Six Lane
- Kingwood Direct Connector
- North Park Direct Connector
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (In 2020):
  - Before: 5,499 Hours (AM), 2,040 Hours (PM)
  - After: 795 Hours (AM), 1,360 Hours (PM)
  - Reduction: 96% (AM), 45% (PM)
- Cost of the Improvement: $51,644 Million
- Tree Impact: <10%
- Crash Reduction: 70%
Lake Houston/Kingwood Area Mobility Study
Alternative J: Woodland Hills Four Lane Extension

Legend
2020 Level of Service - Alternative J
- A, B, C, D
- E, F
- Woodland Hills 4 Lane Extension
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (in 2020):
  - Before: 1,689 Hours (AM); 2,849 Hours (PM)
  - After: 775 Hours (AM); 1,680 Hours (PM)
  - Reduction: 53% (AM); 41% (PM)
- Cost of the Improvement: $45.10 Million
- Tree Impacts: <30%
- Crash Reduction: 11%
Lake Houston/Kingwood Area Mobility Study

Alternative K: Kingwood Six Lanes (US 59 to Woodland Hills) + North Park Six Lanes (US 59 to Woodland Hills)

Legend

2020 Level of Service - Alternative K

- Total Delay [in 2020]:
  - Before: 3,689 Hours (AM); 2,849 Hours (PM)
  - After: 951 Hours (AM); 1,759 Hours (PM)
  - Reduction: 44% (AM); 38% (PM)
- Cost of the Improvement: $98.4 Million
- Tree Impacts: <10%
- Crash Reduction: 70%

Legend

- North Park Six Lane
- Kingwood Six Lane
- Major Thoroughfare
- County Line
- Park
- Water
Lake Houston/Kingwood Area Mobility Study
Alternative L: Kingwood Drive Underpass/Overpass

Intersection Improvements

Legend
2020 Level of Service - Alternative L
- A: B: C: D
- E: F
- Kingwood Underpass
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay (in 2020)
  - Before: 1,689 Hours (AM); 2,849 Hours (PM)
  - After: 1,467 Hours (AM); 2,282 Hours (PM)
  - Reduction: 13% (AM); 20% (PM)
- Cost of the Improvement: $25.72 Million
- Tree Impacts: <10%
- Crash Reduction: 7.5%
Lake Houston/Kingwood Area Mobility Study
Alternative M: North Park Drive Underpass/Overpass

Legend
2020 Level of Service - Alternative M
A, B, C, D
E, F
North Park Underpass
Major Thoroughfare
County Line
Park
Water

- Intersection Improvements

- Total Delay (By 2020)
  - Before: 1,689 Hours (AM), 2,649 Hours (PM)
  - After: 1,467 Hours (AM), 2,202 Hours (PM)
  - Reduction: 126 Hours (AM), 447 Hours (PM)

- Cost of the Improvement: $25.52 Million

- Tree Impacts: <20%

- Crash Reduction: 7.5%
Alternative O: North Park Drive Underpass/Overpass + Six Lane North Park Drive

- Intersection Improvements

Legend
- 2020 Level of Service - Alternative O
  - A, B, C, D
  - E, F
- North Park Underpass
- North Park Six Lane
- Major Thoroughfare
- County Line
- Park
- Water

- Total Delay in 2030:
  - Before: 3,480 Hours (AM), 2,819 Hours (PM)
  - After: 1,019 Hours (AM), 1,506 Hours (PM)
  - Reduction: 44% (AM), 37% (PM)
- Cost of Improvements = $26.62 Million
- Crash Reduction = 52.50%
- Tree Impacts = < 10%