

every day counts 

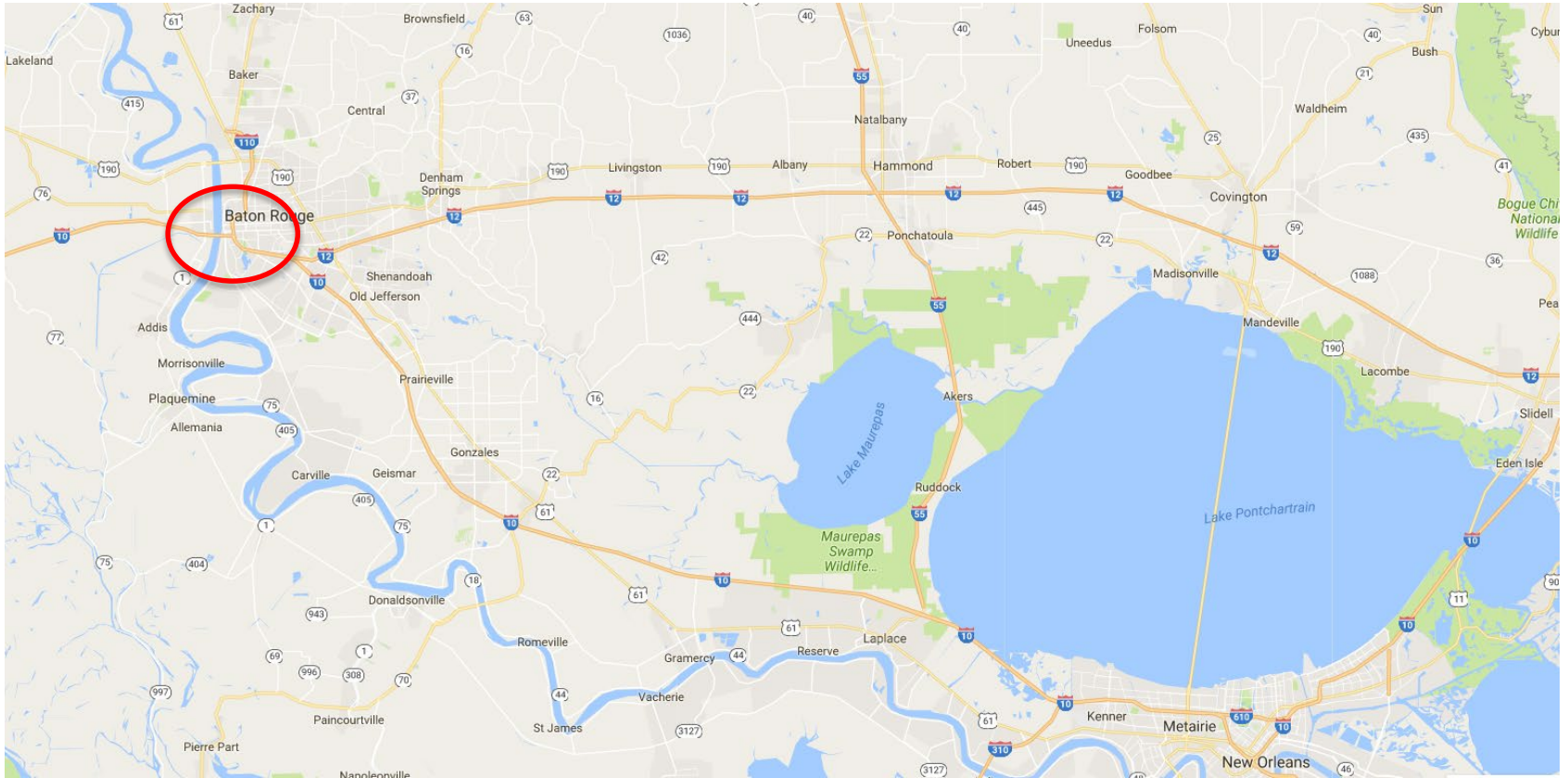


Adriane McRae
Ryan Hoyt

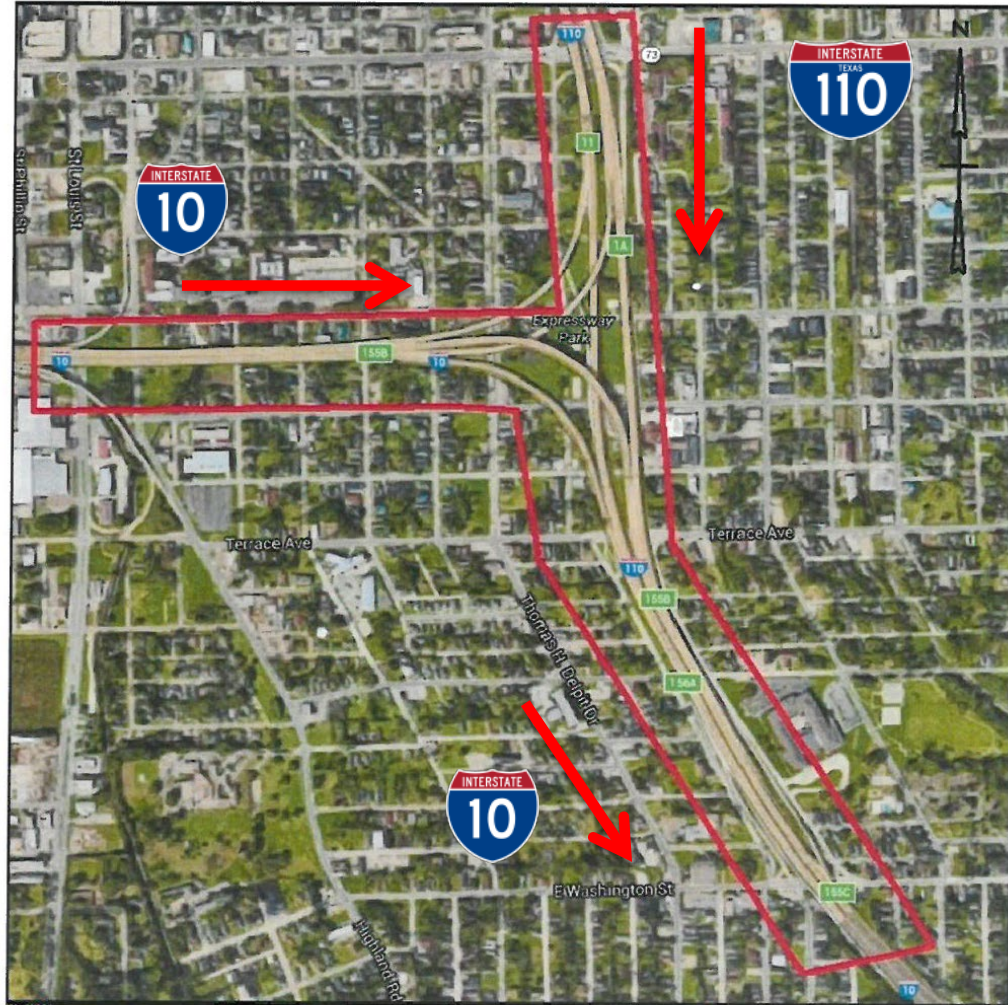
**Louisiana Department of
Transportation and
Development**

Freeway Analysis using ISATe

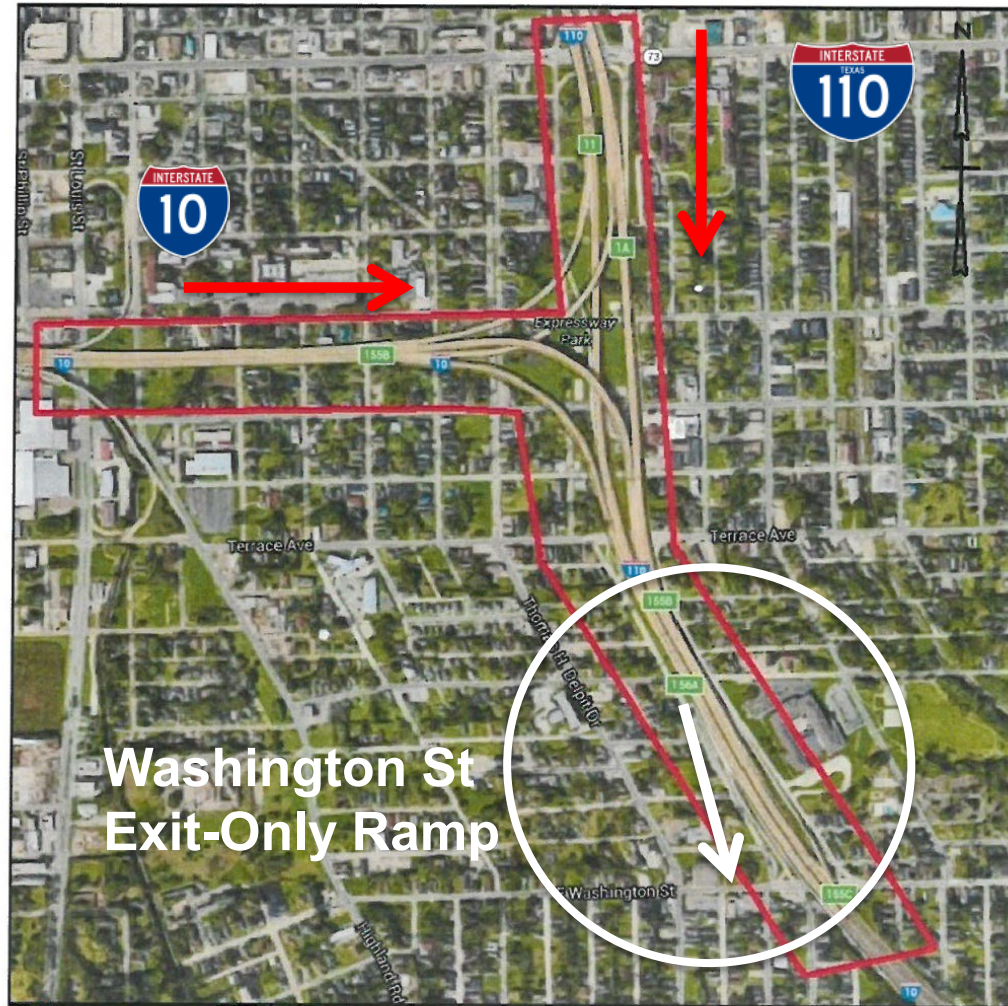
Project Area



Project Area



Project Area



Project Area



Weaving Movement



Washington St
Exit-Only Ramp

Weave with Lane Drop

Proposed Modification



Safety Analysis

- **FHWA Interstate Access Policy: no adverse impact to safety**
- **Safety analysis performed as part of Interchange Modification Report (IMR)**
- **ISATe was determined to be best tool to perform analysis**
- **State requested assistance from DDSA Team**

Why the ISATe?

- **Developed using Excel spreadsheet software**
- **Intended for safety analysis of freeway-arterial and freeway-freeway interchanges.**
- **Incorporates interchange/ramp safety performance functions**
- **Can analyze locations without crash data**
- **Use of crash data improves crash estimate**

Safety Analysis Methodology

- DOTD developed safety study methodology incorporating ISATe.
- FHWA Division reviewed and accepted methodology.
- DOTD then conducted study with assistance from DDSA Team

Safety Analysis Results

Existing

Type	Number
Cross	0
Merge	21
Diverge	2

Proposed

Type	Number
Cross	0
Merge	23
Diverge	4

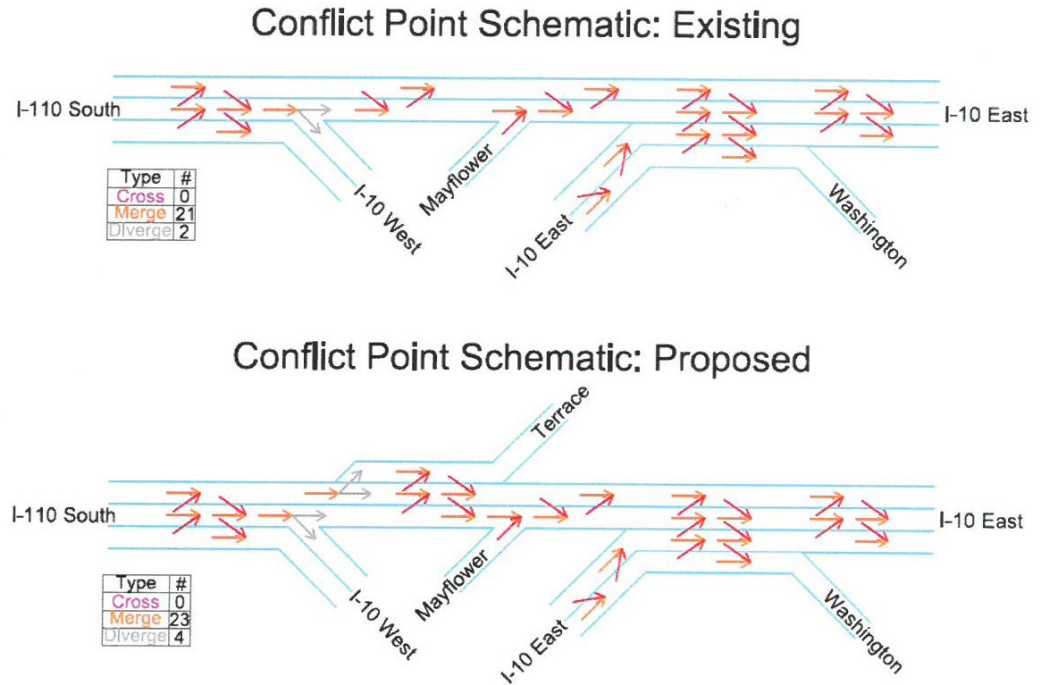


Figure 1: Conflict Point Schematics

2.7% more crashes
1.4% reduction injury crashes

Conclusions

- **Based on results, State concluded minimal safety impact**
- **IMR was accepted in December, 2016**
- **The ISATe tool added value**
- **Division actively promoted the use of DDSA technical assistance.**

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More info:

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