**I-345 Feasibility Study**

**Need and Purpose**

Need for the Feasibility Study:

- I-345 was constructed in 1974.
- Located between I-30 and Spur 366 (Woodall Rogers).
- High daily traffic volume.

The Feasibility Study evaluation of alternatives is based on the growing cost of continued maintenance and preservation of the structure.

**Purpose of the Feasibility Study is to evaluate (9) alternatives intended to:**

- Improve the structural condition of the bridge.
- Reduce maintenance cost.
- Reduce the frequency of maintenance and preservation activities.

**Feasibility Study Schedule**

- Notice to Proceed: June 2012.
- Develop Construct Alternatives: September 2012.
- Stakeholder Meeting: November 2012.
- Public Meeting: December 2012.

**Existing Condition**

2. Unique design:
   - Two steel girder superstructure framing.
   - Concrete deck not mechanically connected (bolts) to floor beams or girders.
   - Unsymmetrical column layout.
4. 2010 Average Daily Traffic (ADT): 170,000.

**Study Alternatives**

1. No-build.
2. Strengthen superstructure by connecting the top of the steel girders with the concrete bridge deck.
3. Add columns to provide symmetrical support.
4. Strengthen local connections.
5. Strengthen superstructure by adding girders & bent caps.
7. Close down I-345 during fast track superstructure & cap replacement (similar to Pierce Elevated in Houston).
8. Hybrid alternative (combination of alternatives 2 thru 7).
9. Complete facility reconstruction.

**Proposed Evaluation Criteria**

1. Initial capital cost.
2. Ongoing maintenance cost.
3. Construction duration.
5. City street impact.
6. Local residents impact.
7. Local businesses impact.
8. Construction traffic impact.
9. DART impact.
10. Aesthetic impact.
12. Other applicable criteria.