

# Arkansas State Highway and Transportation Department



**Little Rock Departmental Club**  
**Pleasant Valley Country Club**  
Tuesday, November 25, 2014

Interstate 430/630  
Interchange  
Improvement Project

*The 'Big Rock' Interchange*





# Why Big Rock ???





# Big Rock *Aerial View*





# Big Rock Background





# Before Big Rock





# The Plan

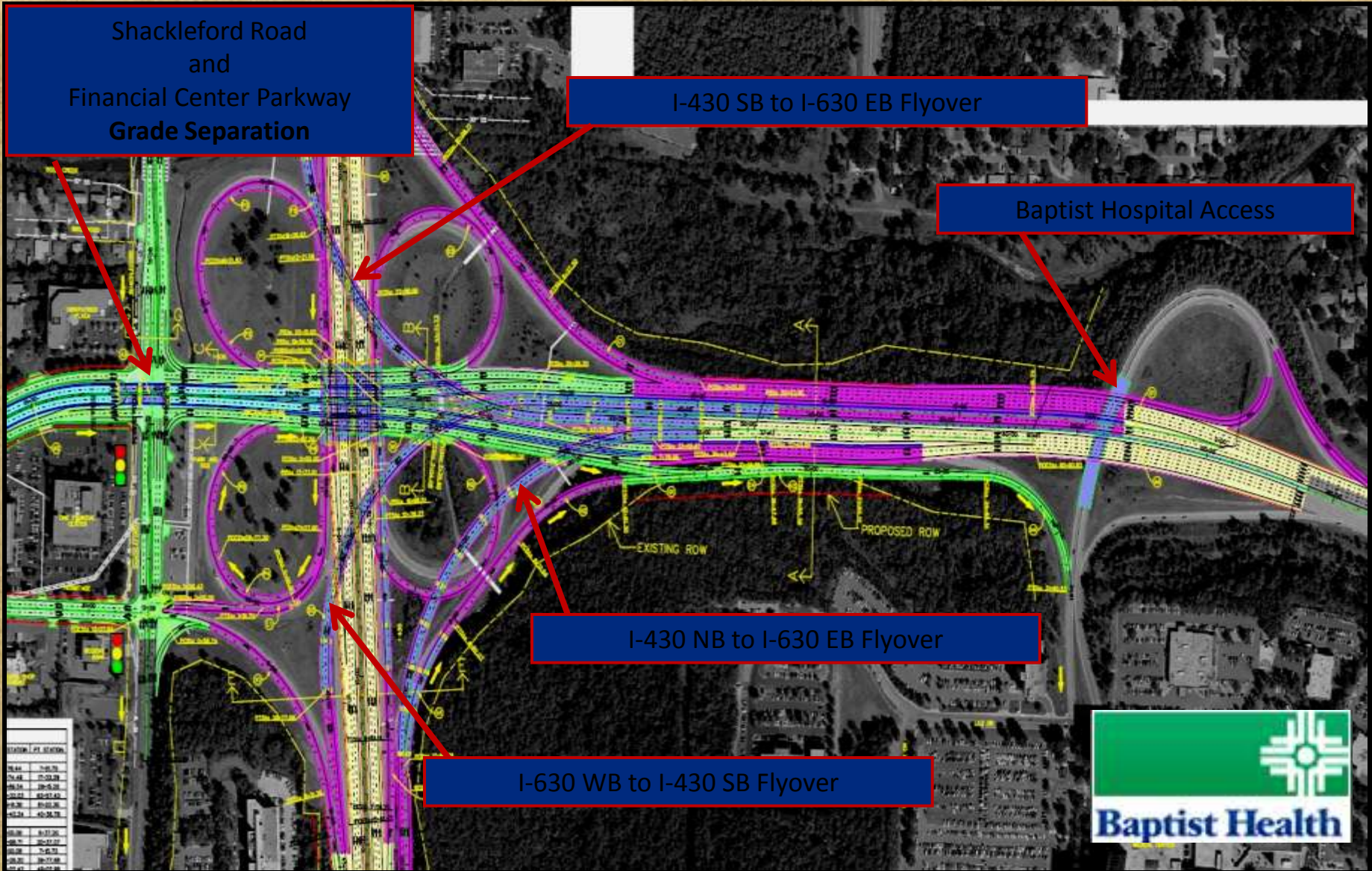
Shackleford Road  
and  
Financial Center Parkway  
**Grade Separation**

I-430 SB to I-630 EB Flyover

Baptist Hospital Access

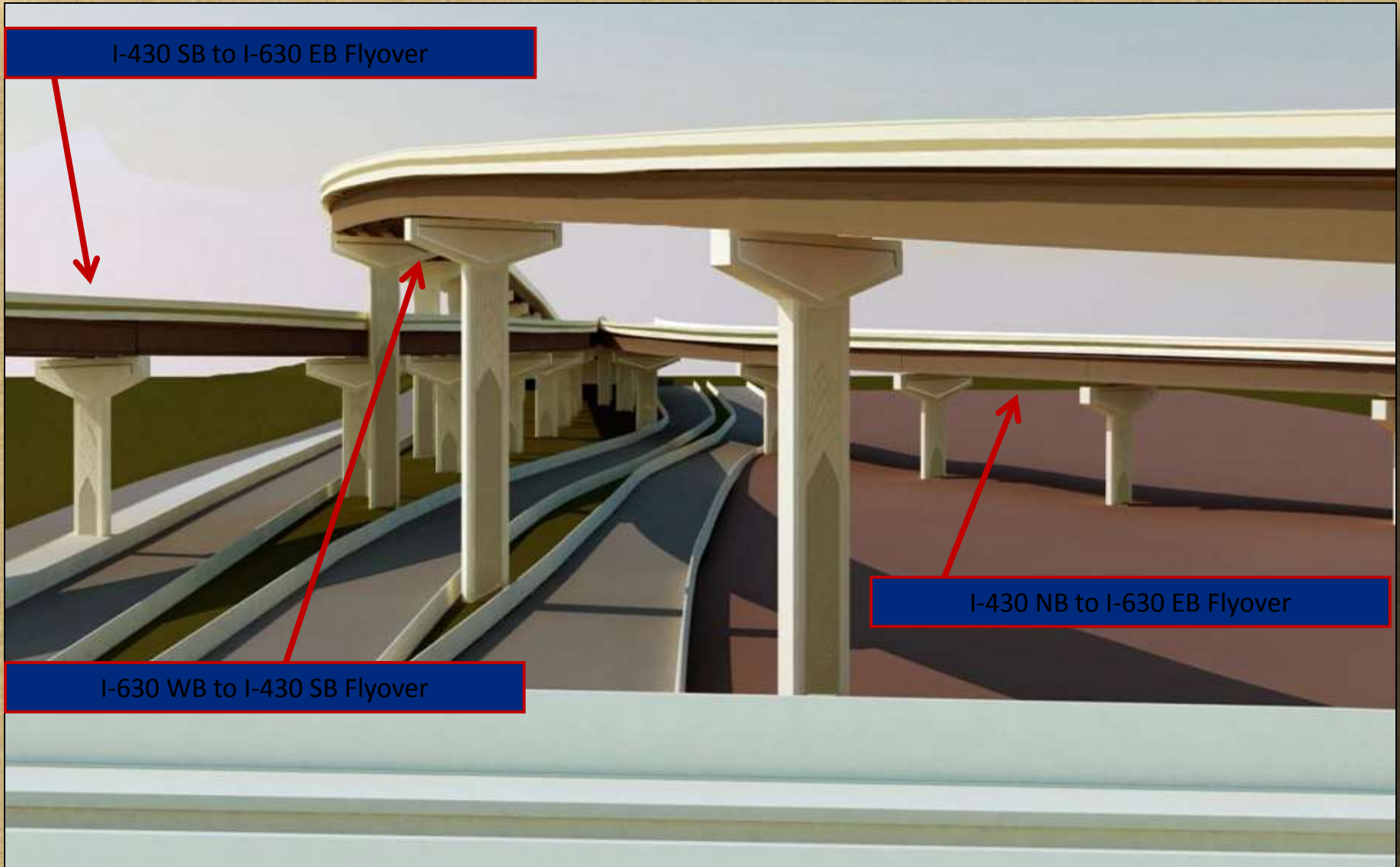
I-430 NB to I-630 EB Flyover

I-630 WB to I-430 SB Flyover



| STATION | 1    | 2    | 3    | 4    |
|---------|------|------|------|------|
| 0+00    | 0+00 | 0+00 | 0+00 | 0+00 |
| 0+10    | 0+10 | 0+10 | 0+10 | 0+10 |
| 0+20    | 0+20 | 0+20 | 0+20 | 0+20 |
| 0+30    | 0+30 | 0+30 | 0+30 | 0+30 |
| 0+40    | 0+40 | 0+40 | 0+40 | 0+40 |
| 0+50    | 0+50 | 0+50 | 0+50 | 0+50 |
| 0+60    | 0+60 | 0+60 | 0+60 | 0+60 |
| 0+70    | 0+70 | 0+70 | 0+70 | 0+70 |
| 0+80    | 0+80 | 0+80 | 0+80 | 0+80 |
| 0+90    | 0+90 | 0+90 | 0+90 | 0+90 |
| 1+00    | 1+00 | 1+00 | 1+00 | 1+00 |

# Big Rock *Flyover Ramps*





# Shackleford Rd. Overpass





# Maintaining Traffic Flow






Pouring it on ***THICK!!***





# I-430 / I-630 INTERCHANGE *TRIVIA*

ESTIMATED QUANTITIES FOR CONSTRUCTION



How Much  
Concrete ?????



# I-430 / I-630 INTERCHANGE *TRIVIA*

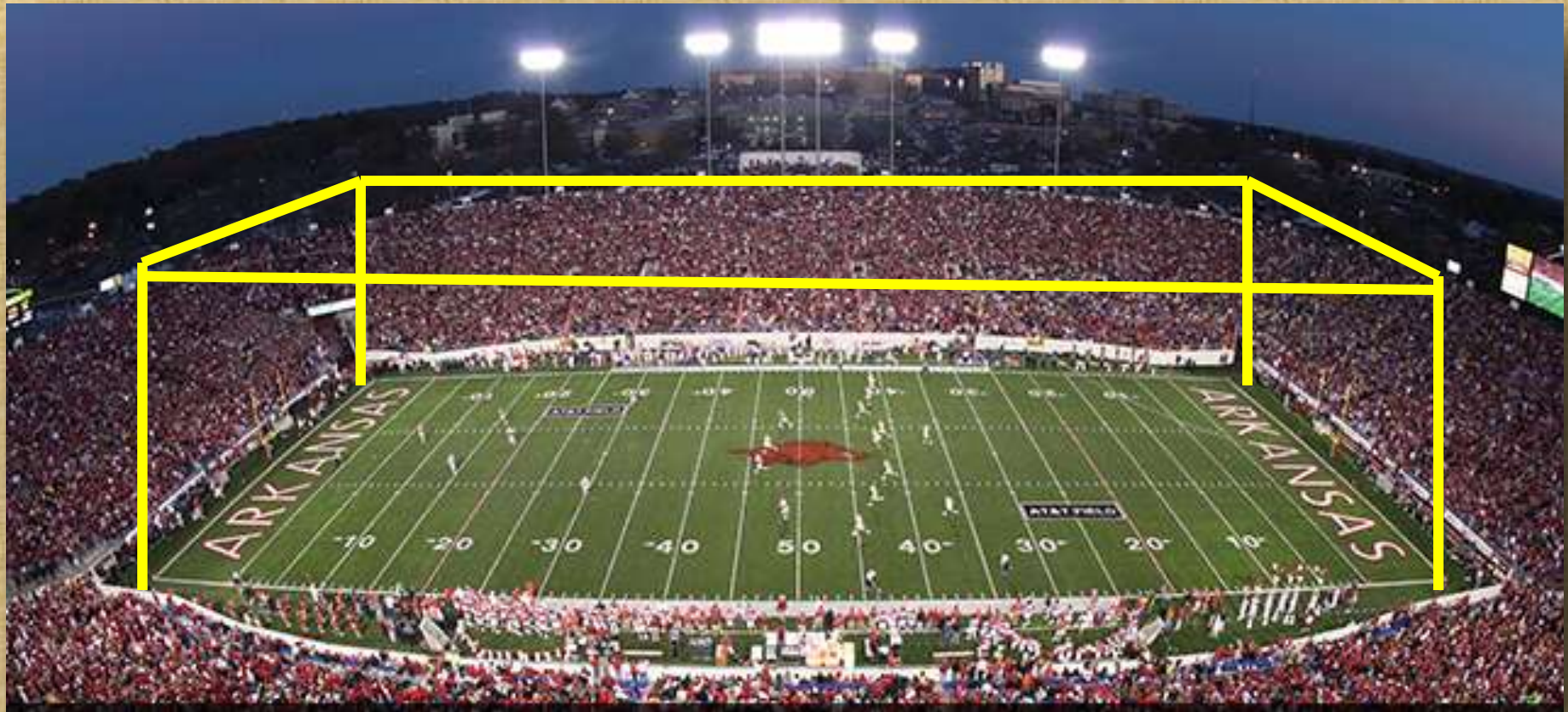
ESTIMATED QUANTITIES FOR CONSTRUCTION

**Over 100,000 cubic yards  
or 200,000 tons!!**



# I-430 / I-630 INTERCHANGE *TRIVIA*

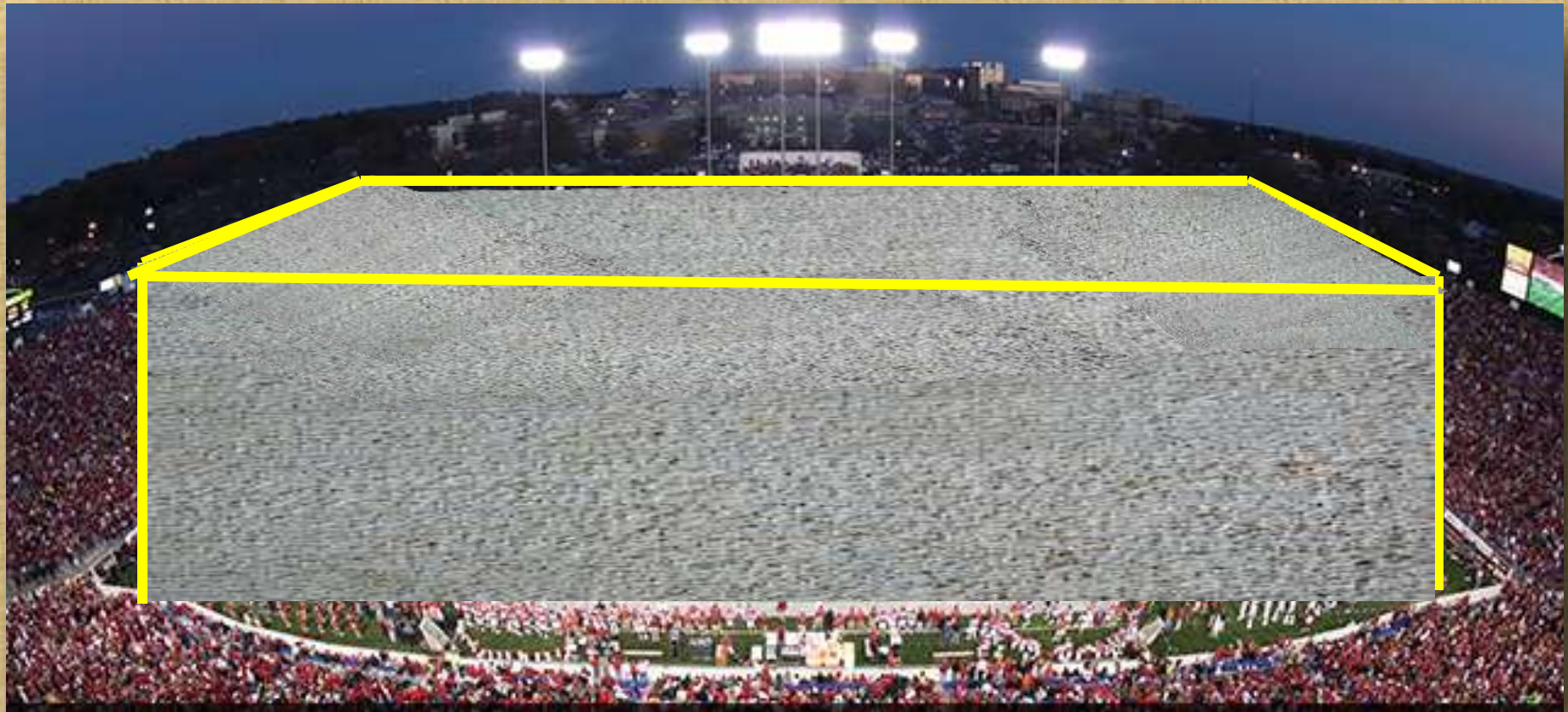
ESTIMATED CONCRETE QUANTITY FOR CONSTRUCTION





# I-430 / I-630 INTERCHANGE *TRIVIA*

ESTIMATED CONCRETE QUANTITY FOR CONSTRUCTION







**Big Rock Interchange  
When is it complete??**







**Big Rock Interchange  
Complete: Mid 2015**





## Broadway Bridge



- **25,000 Vehicles Daily**
- **Deteriorating Rapidly**
- **Deficient & Obsolete**





## Broadway Bridge



### ➤ Superstructure Facts

- ✓ Double Basket Handle Network Tied Arch
- ✓ Pulaski Co. contributes \$20 million for addition of Double Arch
- ✓ 2 – 448 Foot Spans
- ✓ Arches Rise 100 Feet Above Roadway Surface





## Broadway Bridge



### ➤ **Navigational Clearance**

- ✓ **Vertical Clearance: 62.4 Feet**
- ✓ **Horizontal Clearance: 396 Feet**
- ✓ **Substructure Designed for Barge Collision**





## Broadway Bridge



### ➤ **Travel Area**

- ✓ 4 – 11 Ft. Lanes, 4 Ft. Shoulders, 52 Ft. Clear Roadway
- ✓ 16 Ft. Shared Use Path
- ✓ Out-to-Out Width = 73 Feet





# Broadway Bridge



➤ **Dickey Stephens Ballpark Access**





## Broadway Bridge



### ➤ **Construction**

- ✓ **Bids Opened: September 17<sup>th</sup>**
- ✓ **Low Bid Amount: \$98,404,049.69**
- ✓ **Bridge closed for 6 months, beginning Spring 2016**





- ✓ **Live Traffic Conditions**
- ✓ **Construction Zones**
- ✓ **Alternate Routes**
- ✓ **Rest Areas**
- ✓ **Welcome Centers**
- ✓ **Park-and-Ride Lots**
- ✓ **Weight Restricted Roads & Bridges**
- ✓ **Weather Radar**
- ✓ **Live Traffic Cameras (Coming Soon)**

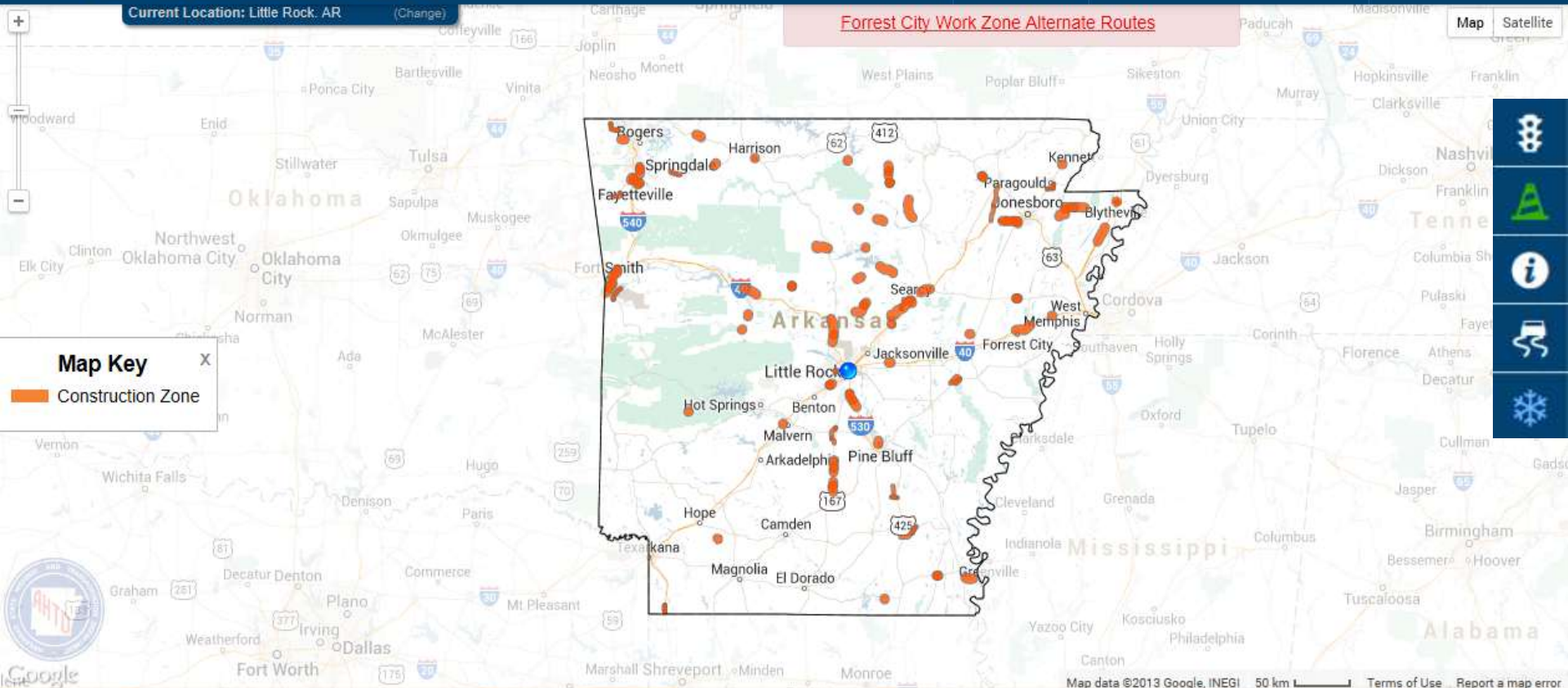




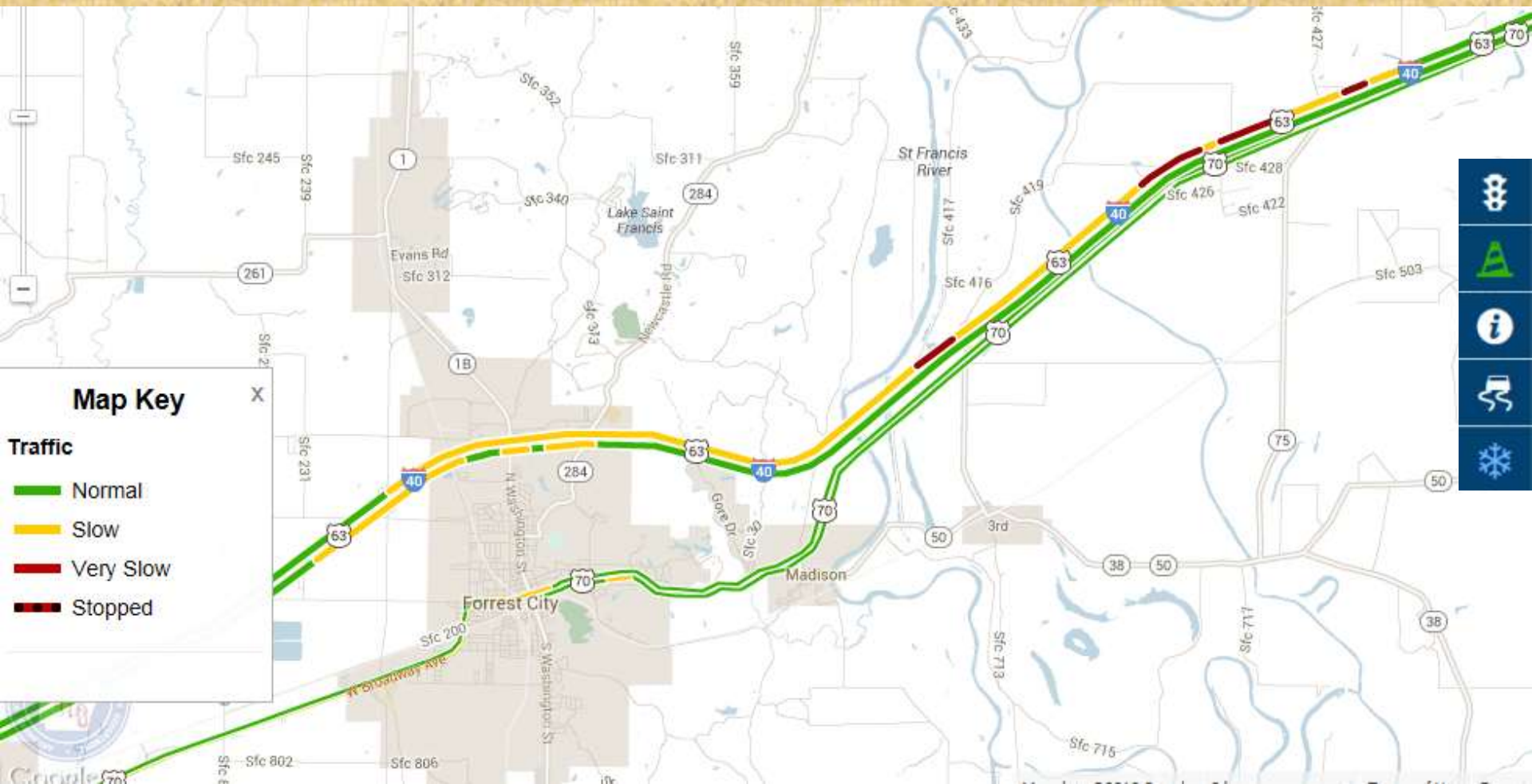
Current Location: Little Rock, AR (Change)

### Forrest City Work Zone Alternate Routes

Map Satellite











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