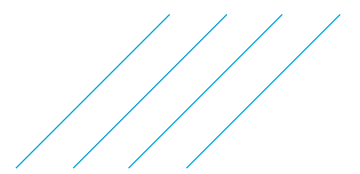




Improvements to Ross Clark Circle

March 7, 2019



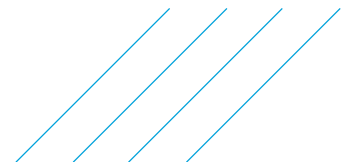
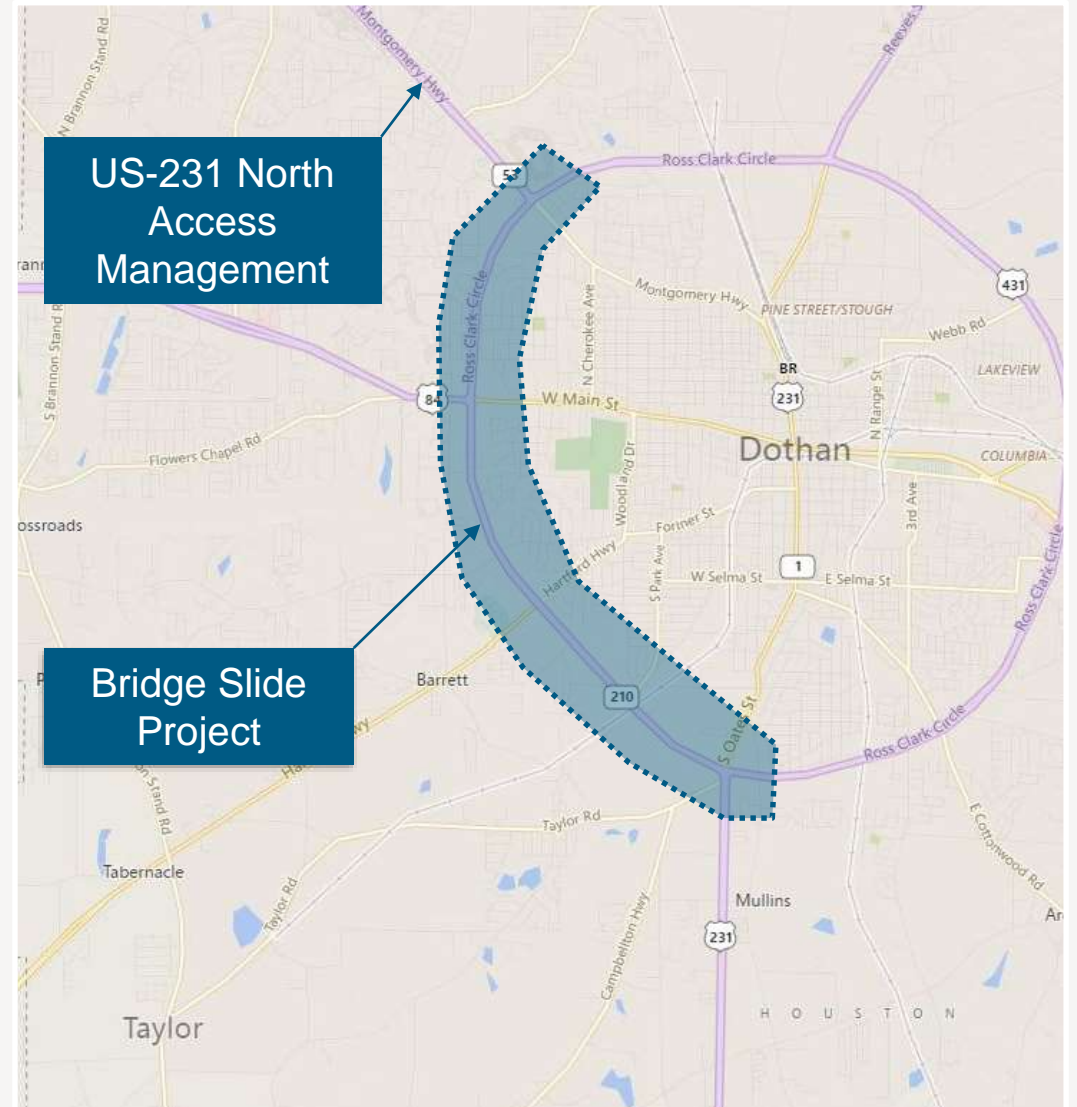
Original Study Area

US-231 South to US-231 North

Approximately 5.1 miles of the 14 mile loop

Immediate Needs Identified during the Study:

- › US-231 North – Access Management in Developing Area
- › Culvert Replacement (Bridge Slide) at UT of Beaver Creek – address deteriorating bridge culvert



Previous Projects



US-231 North Access Management

Added capacity and efficiency

- › Ross Clark Circle to John Odom Drive



Bridge Slide Project

Remove load from deficient culvert (Culvert remain in place)

- › First bridges constructed using accelerated methods
- › Fortner Street to Bauman Drive

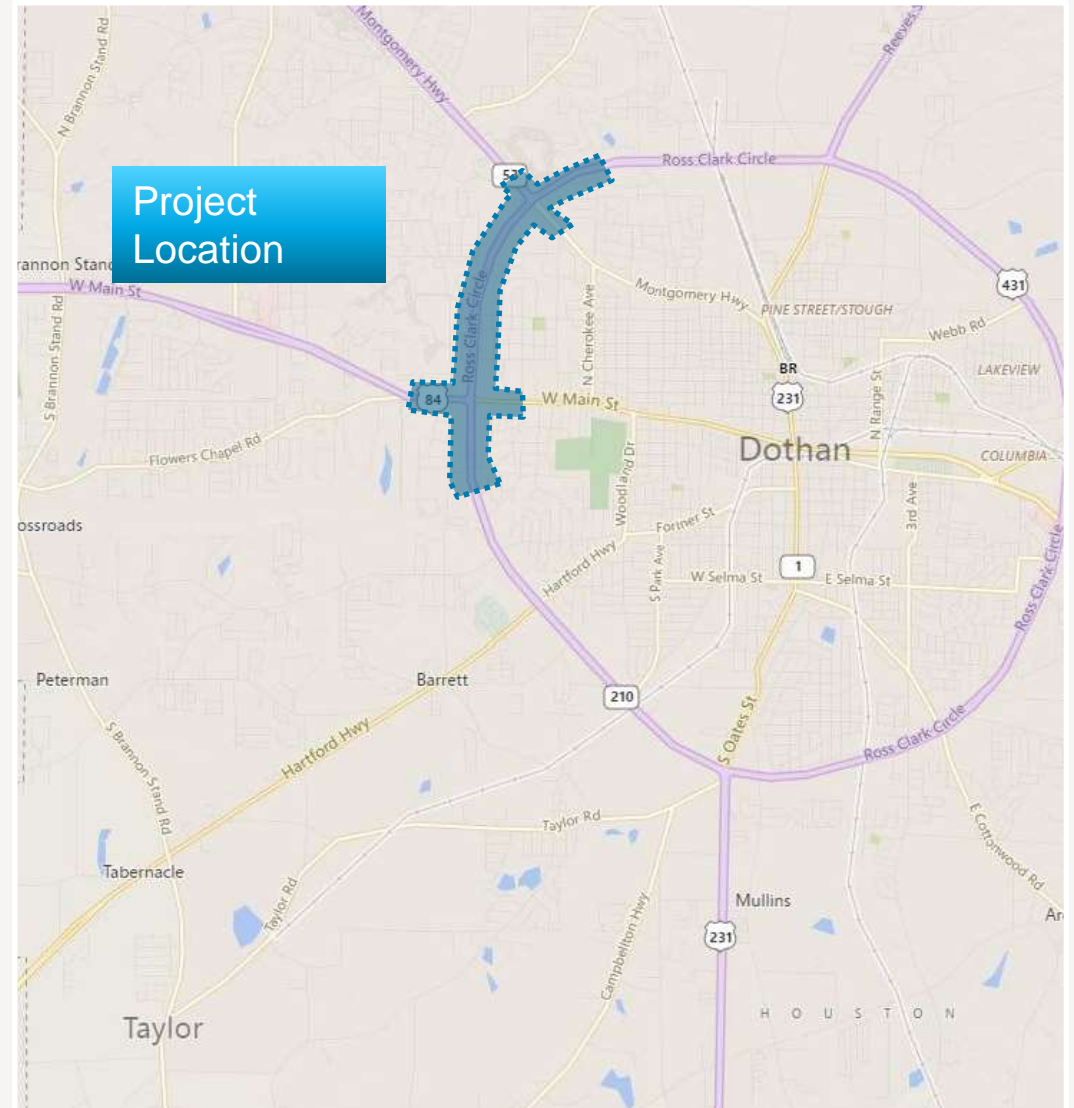


Project Location

Bauman Drive to N Cherokee Avenue

Improvements Include:

- › Ross Clark Circle (± 2.7 miles)
- › US-84 (± 0.75 miles)
- › US-231 (± 0.55 miles)
- › 19 New or Modified Signals
- › 1.9 miles of Frontage Roads
- › 6.9 miles of Curb and Gutter
- › 22,350 linear feet of Sidewalks



Challenges



Traffic, Traffic, Traffic

- ADT 41,483 (2018)
- ADT 79,922 (2038) *projected



Incomplete Frontage Road Network

- US-84 / US-231 Vicinity

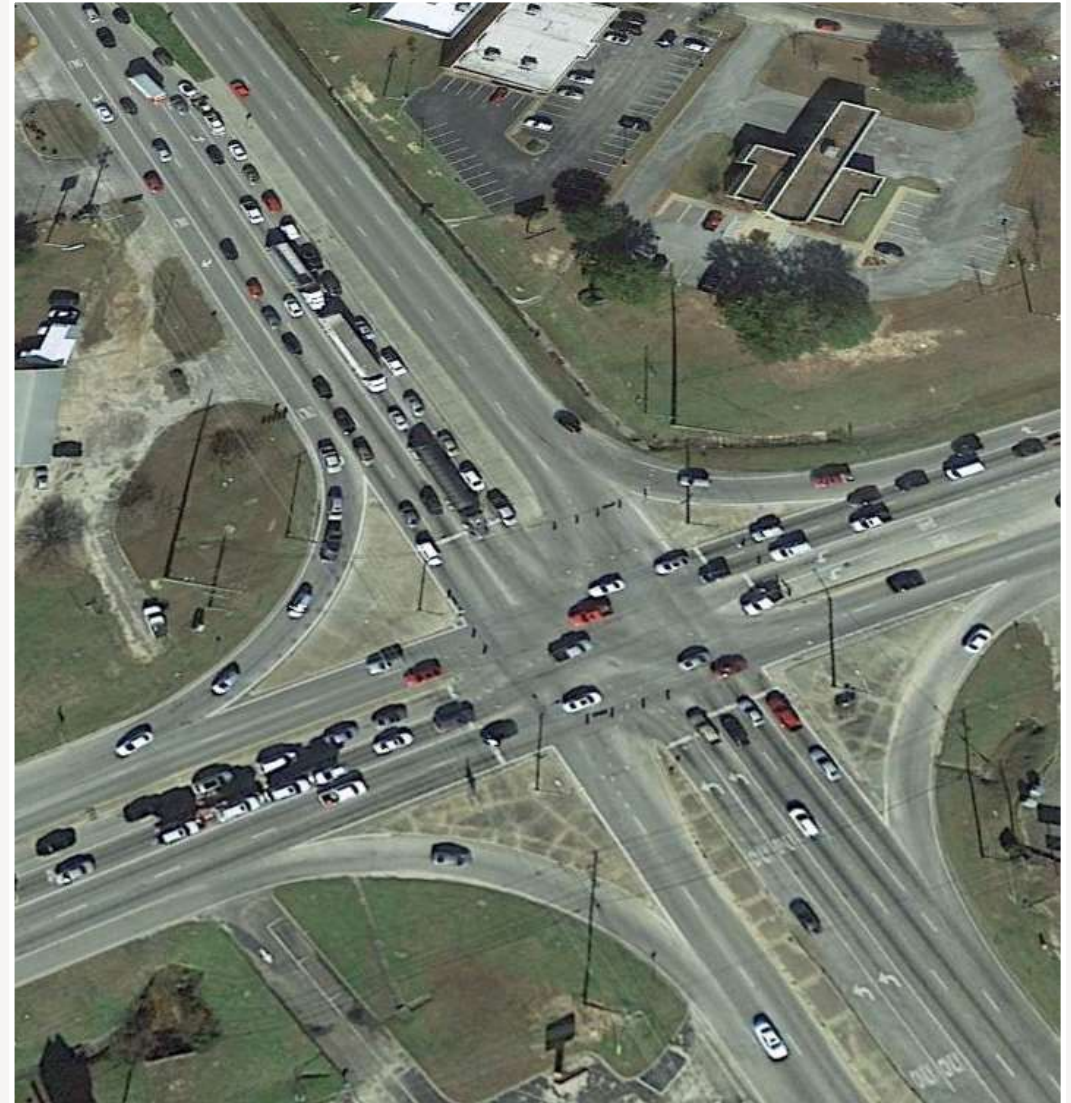


Development (i.e. Driveways)



Major Intersections

- US-84, Choctaw, US-231



Access Management Techniques



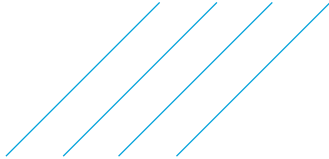
Islands – Restrict Certain Movements at Intersections

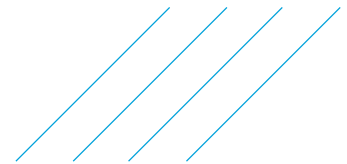
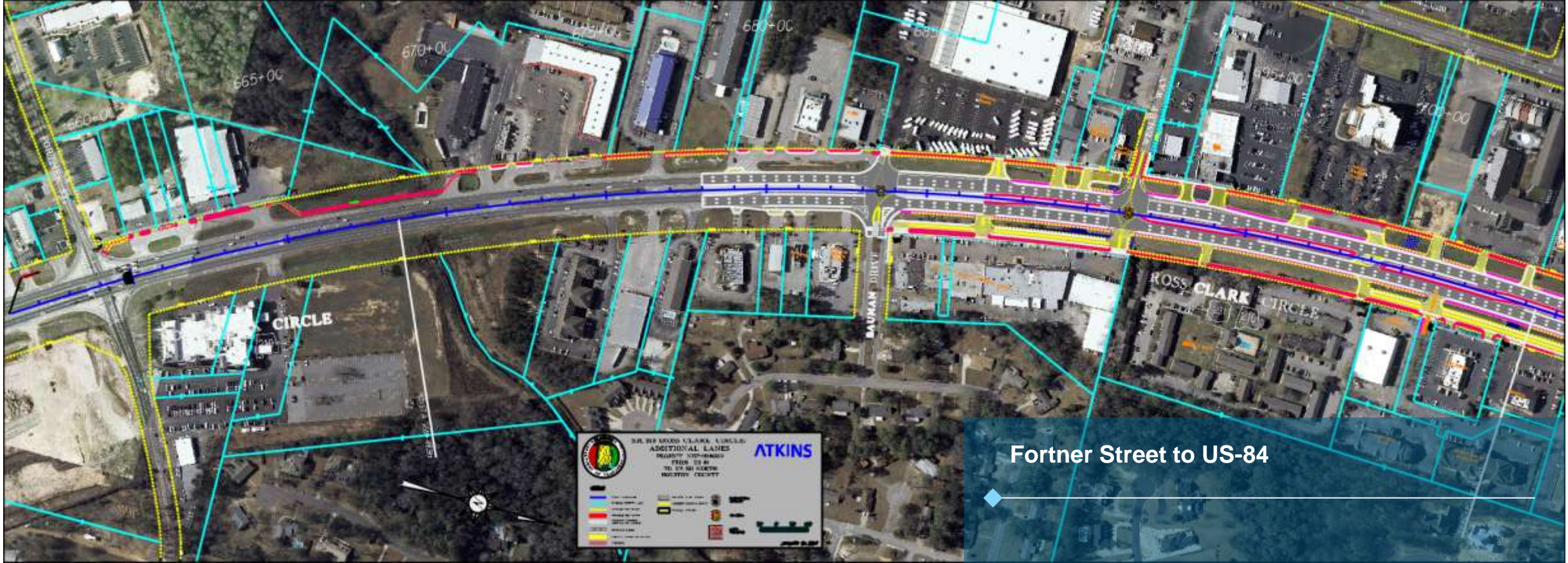


Mid Block U-Turns – Median used to restrict access between intersections

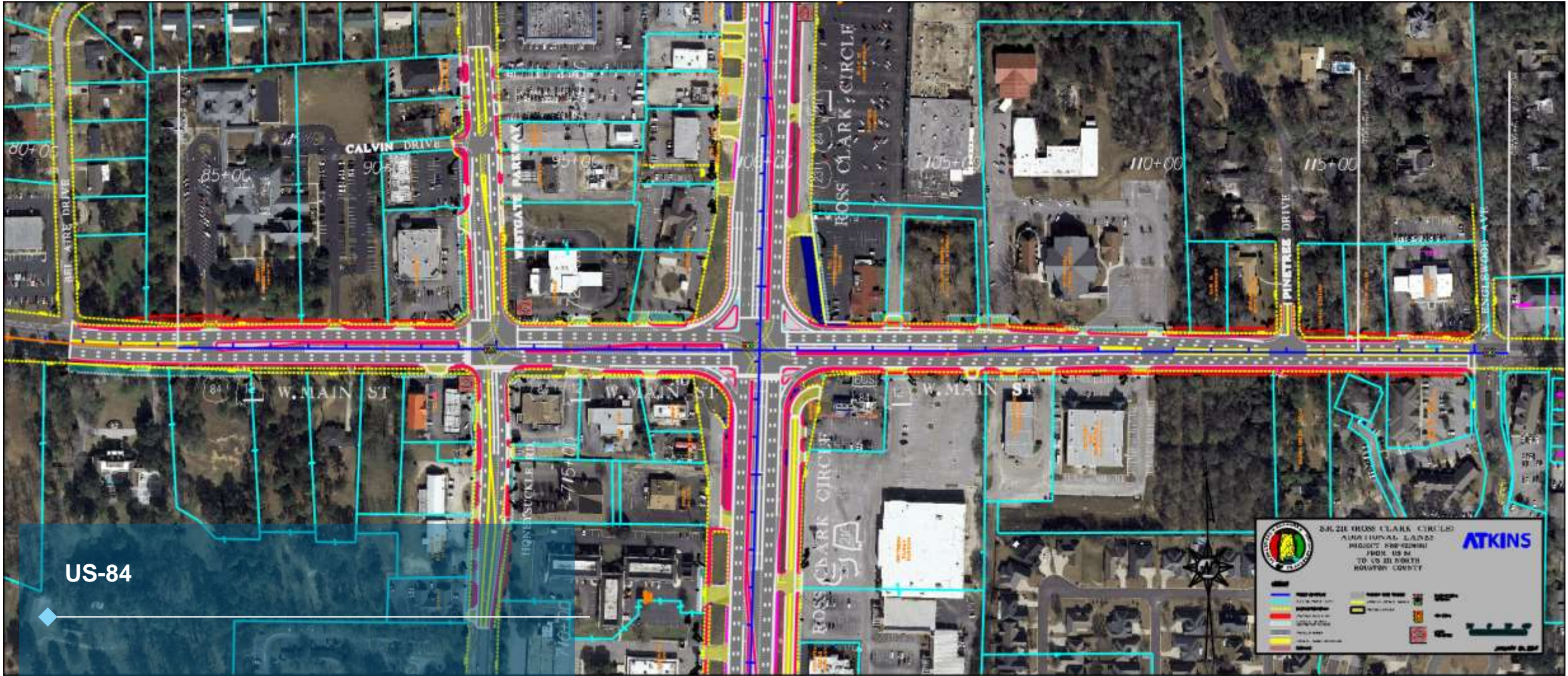


Right In / Right Out - Limiting Street and/or Driveway Entrances to "Right In / Right Out"









US-84


SALZIE ROSS CLARK CIRCLE
 ADJUTANT LANE
 PROJECT PROPOSAL
 FROM US 84
 TO US 28 NORTH
 HOUSTON COUNTY

ATKINS

	ROAD CENTERLINE		ROAD SIDE WALK
	ADJUTANT LANE		ADJUTANT LANE DRIVE
	ADJUTANT LANE DRIVE		ADJUTANT LANE DRIVE DRIVEWAY
	ADJUTANT LANE DRIVE DRIVEWAY		ADJUTANT LANE DRIVE DRIVEWAY DRIVEWAY
	ADJUTANT LANE DRIVE DRIVEWAY DRIVEWAY		ADJUTANT LANE DRIVE DRIVEWAY DRIVEWAY DRIVEWAY
	ADJUTANT LANE DRIVE DRIVEWAY DRIVEWAY DRIVEWAY		ADJUTANT LANE DRIVE DRIVEWAY DRIVEWAY DRIVEWAY DRIVEWAY



Intersection of Ross Clark Circle and US-84

Key Features

- 6 Through Lanes US-84
- 3 Left Turn Lanes NB RCC to WB US-84
- 2 Right Turn Lanes SB RCC to WB US-84
- Restricted Left Turn Movements





Choctaw Street to US-231





Continuous Flow

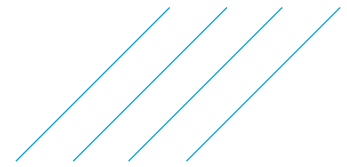
- Utilizes 2-Way Frontage Roads in Each Direction
- Each Frontage Road 3-Lanes
- Dual Signal to “Cross-Over” Traffic
- Similar Concept to Divergent Diamond Interchanges





Continuous Flow

- Utilizes 2-Way Frontage Roads in Each Direction
- Each Frontage Road 3-Lanes
- Dual Signal to "Cross-Over" Traffic
- Similar Concept to Divergent Diamond Interchanges



Intersection of Ross Clark Circle and US-231

Key Features

- 6 Through Lanes US-231
- 3 Left Turn Lanes EB RCC to NB US-231
- 2 Right Turn Lanes SB US-231 to EB RCC
- Restricted Left Turn Movements





US-231 to Cherokee Avenue





Project Progression

Phase 1

- Bauman Drive to US-84
- Let January 25, 2019

Phase 2

- US-84
- Let with Phase 3 – August 30, 2019

Phase 3

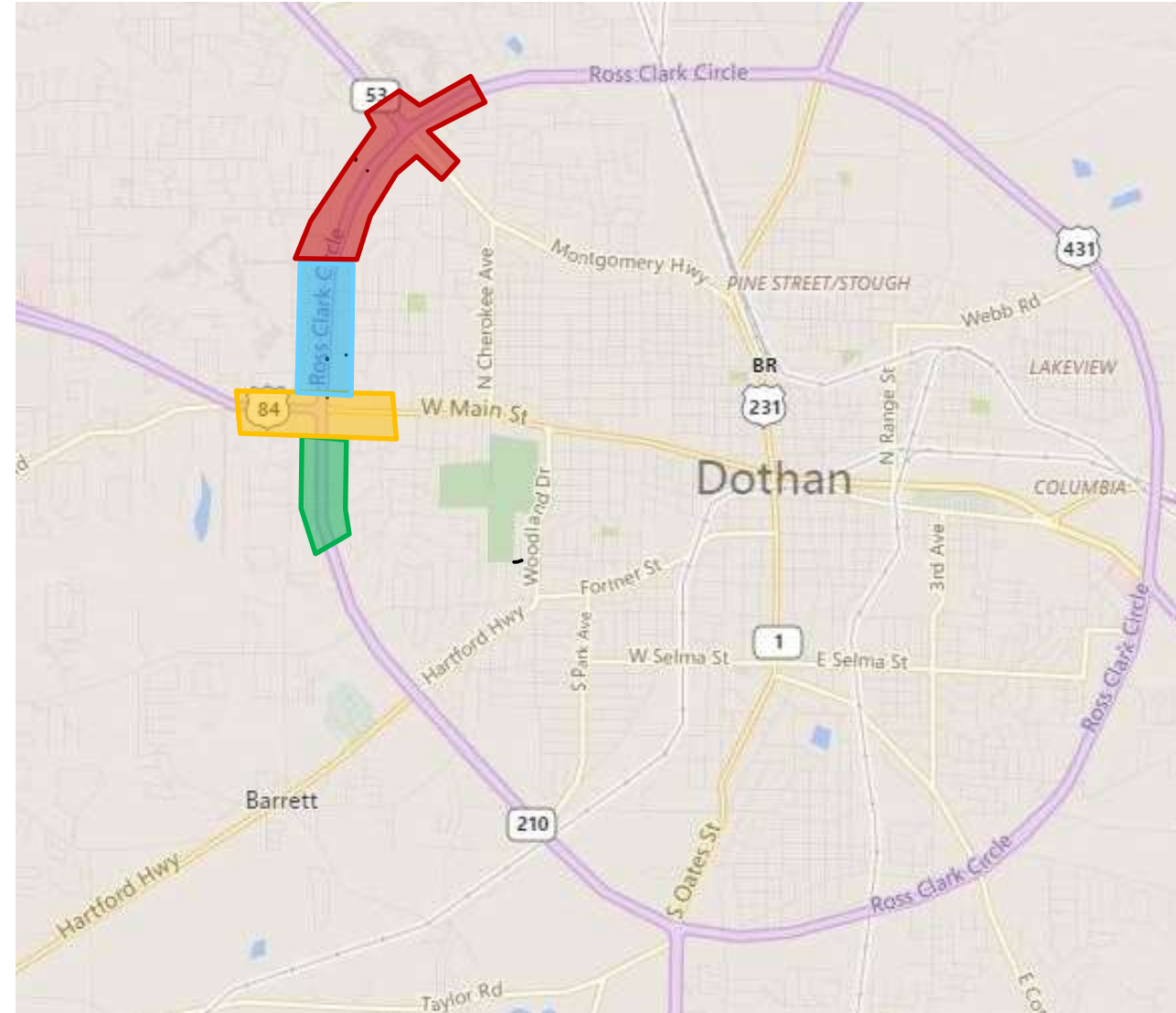
- US-84 to Choctaw Street
- Let with Phase 2 – August 30, 2019

Phase 4

- Choctaw Street to North Cherokee Ave (incl. US-231)
- Letting early 2020

Phase 5

- Lighting and ITS
- Letting early 2021



Relevant Quotes from Baseball

“When you come to a fork in the road, take it.”

“No one goes there nowadays, its too crowded.”

“You’ve got to be careful if you don’t know where you are going, because you might not get there.”

Yogi Berra, New York Yankees, Hall of Fame

Questions

Mark D. McAdams, P.E.

(205)578-5143

Mark.mcadms@atkinsglobal.com