

An ALDOT North Region Update

- Alabama ASCE Winter Meeting
- February 23, 2022
- Curtis W. Vincent, P.E.
- North Region Engineer

Presentation

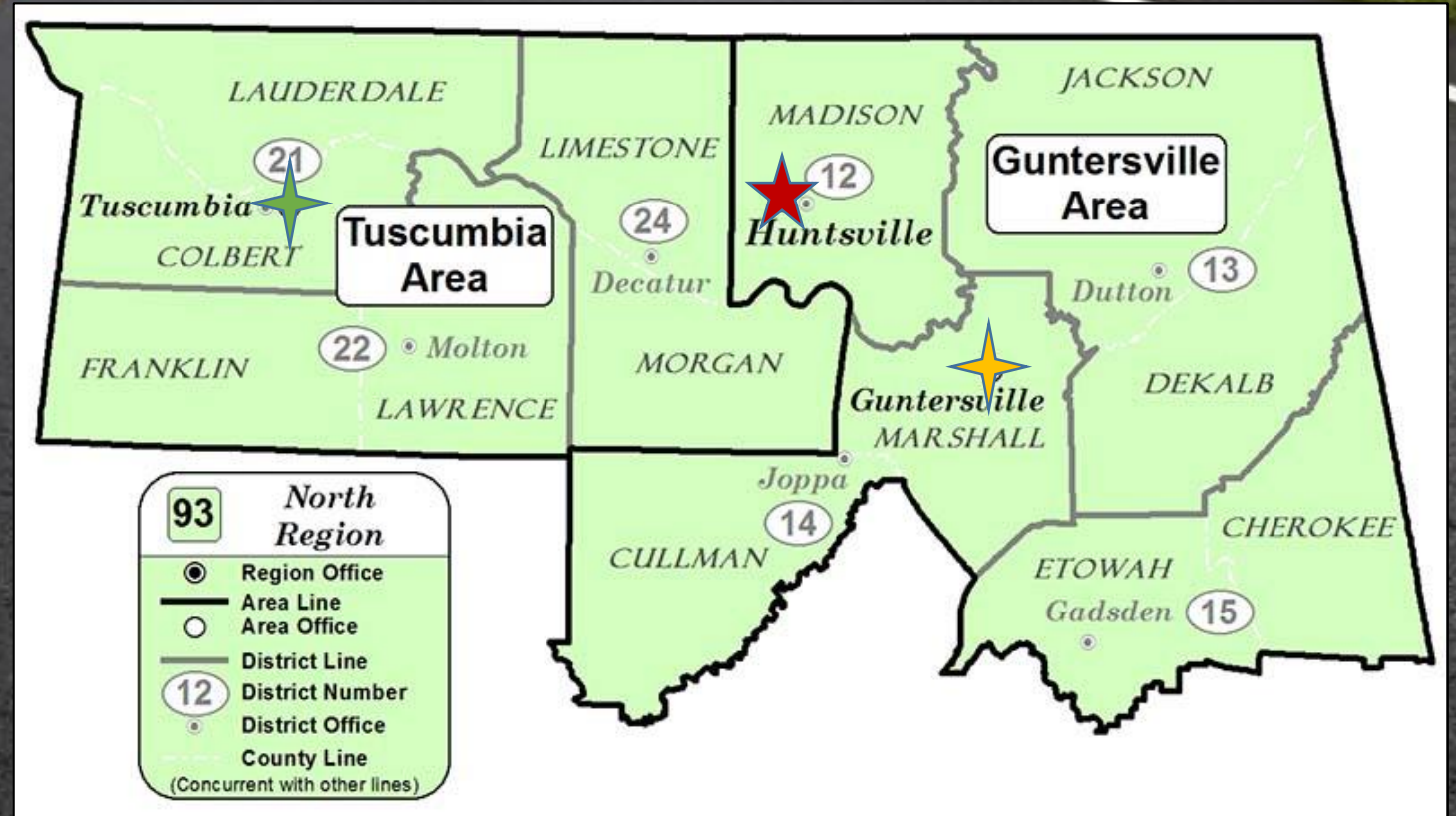
25-30 minutes

1. Tell you about our Region
2. Go over some existing projects
3. Tell you about some future projects
4. Tell you about new operations, TMC, ASAP
5. Answer any questions you may have



ALDOT NORTH REGION

- 13 counties
- From Mississippi line to Georgia line, from Tennessee line to south Cullman County
- Region Office in Huntsville
- Area offices in Guntersville and Tuscumbia



State Roads and Bridges

	Roadway Miles	Lane Miles	Bridges	Bridge Culverts
Guntersville Area	1,753	4,678	400	253
Tuscumbia Area	775	2,482	278	153
North Region total	2,528	7,160	678	406

Area maintenance budgets

	Maintenance*	Resurfacing	Area Total
Guntersville Area	\$15,068,636	\$32,552,000	\$47,620,636
Tuscumbia Area	\$10,726,106	\$23,062,000	\$33,788,106
		Region Total	\$81,408,742

*Supports routine maintenance including pothole patching, sign, signals and marking maintenance, debris removal, guardrail repair, etc.



Current Projects Under Construction



Roadway Relocation on SR-25 (US-411) from Turkeytown to .65 mi. north of CR-20 Etowah/ Cherokee Counties

- Contract let 9/25/2020
- Project was a Rebuild Alabama Project
- Vulcan is Contractor
- Contract amount is \$34,250,868
- New alignment will complete four lane from Gadsden to Leesburg
- 520 working days in contract















Additional Lanes on SR-255 from Old Madison Pike to SR-2 (US-72) Madison County

- Project awarded 05/09/2019
- Contract amount = \$23,415,000
- Contractor is Rogers Group
- 860 days in the contract
- Replaced bridge on Old Madison Pike over SR-255
- Added new access to Mid Town Center and new Orion Amphitheater
- Part of 50/50 agreement between ALDOT and Huntsville



GMC

18-5521 MM 47 ?

AVANNA

LOGIC

KOMATSU











Bridge Widening and Approaches on SR-304 (old CR-24) Over I-65 in Limestone County

- Rebuild Alabama Project
- Contract awarded 10/14/2020
- Contractor is Miller & Miller
- Original Contract Amount = \$2,833,868
- Project is 99% complete
- 140 working days in contract
- Provides additional lanes across interstate for Huntsville Brownsferry improvements benefitting Toyota/ Mazda and other industries









Widening on SR-304 (Old CR-24) from US-31 to east of I-65 (G,D, B, PV, Culverts, TS, IT)

- Rebuild Alabama Project State Funds Utilities Non-reimbursable
- Contract awarded 6/6/2021
- Contractor is Rogers Group
- Contract Amount is \$13,306,739
- 300 working days in contract
- Project is 15% complete, delayed due to utilities
- Provides additional capacity from I-65 to US-31 and Greenbriar Pkwy









Roundabout Installation on SR-251 at CR-83 Lindsey Lane in Athens, Limestone County

- HSIP project
- Contract awarded 12/28/20
- Contractor was Reed Contracting Services (Rogers Group)
- Contract amount is \$3,633,260
- Estimated completion Spring 2022
- Approximately 85% complete









Resurfacing and Additional Lanes on I-565 from west of I-65 to west of County Line Road

- Rebuild Alabama Project
- Contract let 05/08/2020
- Reed Contracting Services (Rogers Group)
- Contract amount = \$14,312,713
- 300 working days in Contract
- Project is 100% complete, Contractor earned \$1,250,000 incentive
- Added additional capacity for 7 miles of interstate benefitting Polaris, Toyota/ Mazda, GE, Amazon, Target, Buffalo Rock, and others











Mooreville
EXIT 2

Bridge Rehabilitation and Bridge Painting on SR-117 over Tennessee River and Relief Bridge Jackson County

- Contract awarded 9/24/2021
- Contract amount = \$6,288,894
- Cakra Inc. is the contractor
- 440 working days in contract
- Requires temporary signals and lane closures



VERTICAL
CLEARANCE
14 - 11'







SUPERIOR TRAFFIC 1 (888) 928-5999

Reconstruction of Northbound I-59 from south of SR-35 to north of US-11 overpass north of Fort Payne

- Project awarded 11/19/2020
- Wiregrass is contractor
- Original contract amount was \$25,239,996
- Project is 60% complete
- Removal of Concrete pavement structure
- Replacement with Asphalt pavement

Reconstruction on I-59 NB and SB from south of CR-276 north of Reece City to .5 miles south of SR-68 (exit 205) Dekalb/Etowah County

- Contract awarded 12/03/2021
- Contract amount = \$43,984,832
- Wiregrass is contractor
- Removal of concrete pavement
- Replace with Asphalt pavement





COMFORT TO GO
Next Exit

Accident & Injury Law
ALEXANDER SHUNNARAH
256-533-1300

HAIL WITH HUGGARDS







Additional Lanes on SR-157 from SR-69 to east of US-31 in Cullman

- Contract let to contract on 07/31/2020
- Contract awarded to Chilton Contractors
- Contract amount = \$14,895,272
- 330 working days in contract
- Project is approximately 50% complete
- Project partially funded by a BUILD (Better Utilizing Investments to Leverage Development) grant















Bridge Replacement on SR-2 over Ashe Boulevard in Sheffield Colbert County

- Contract awarded 06/12/2020
- Contract amount = \$4,998,141
- Contractor is The Bridge Builders of Alabama, LLC
- 245 working days in contract
- 65% complete
- Existing bridges built in 1938 and 1956
- Soldier pile walls constructed





FOX SPORTS
KIX 96
YOUR #1 COUNTRY STATION



Advertisement sign for a local business, partially obscured.

Advertisement sign for a local business, partially obscured.



218

GRADALL 534C-9

JOBSITE



Future Projects

Proposed Florence Blvd from to CR-30 to Sky Park Road on SR-2 (US-72) Lauderdale County

- Widens US-72 from 4 lanes to six lanes
- 2.106 miles
- Build Grant
- Proposed June 2022 letting
- Estimated cost \$24,062,00
- Utility relocation to begin within next month



ONLY

INDIAN SPRINGS

PARTS SERVICE

Holladay's

Smiley face sign



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←

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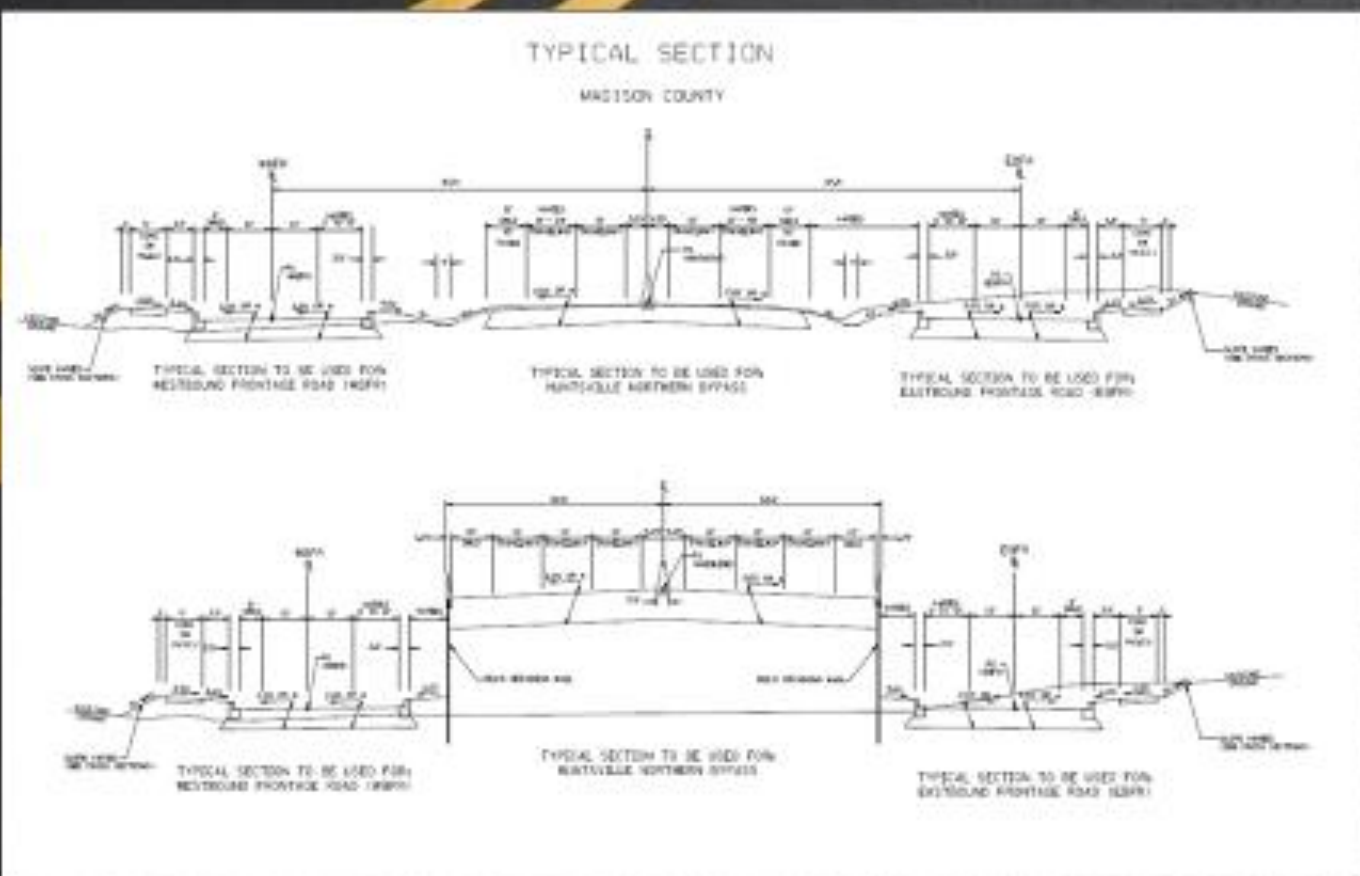


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Huntsville Northern Bypass



- Estimated \$34 million project
- Construct two-lane service roads only from Pulaski Pike to U.S. 231 and intersection improvement at U.S. 231
- Service roads from U.S. 231 to U.S. 72 to be constructed in future projects
- Four-lane mainline with overpasses to be constructed in future projects

I-565 Additional Lanes from County Line Road to Wall-Triana Highway



Status: Survey Complete, Design work underway.

Projected Start Date: FY 2024

Estimated Cost: \$46,800,000

Access Management on US 231 between Weatherly Road and Hobbs Road

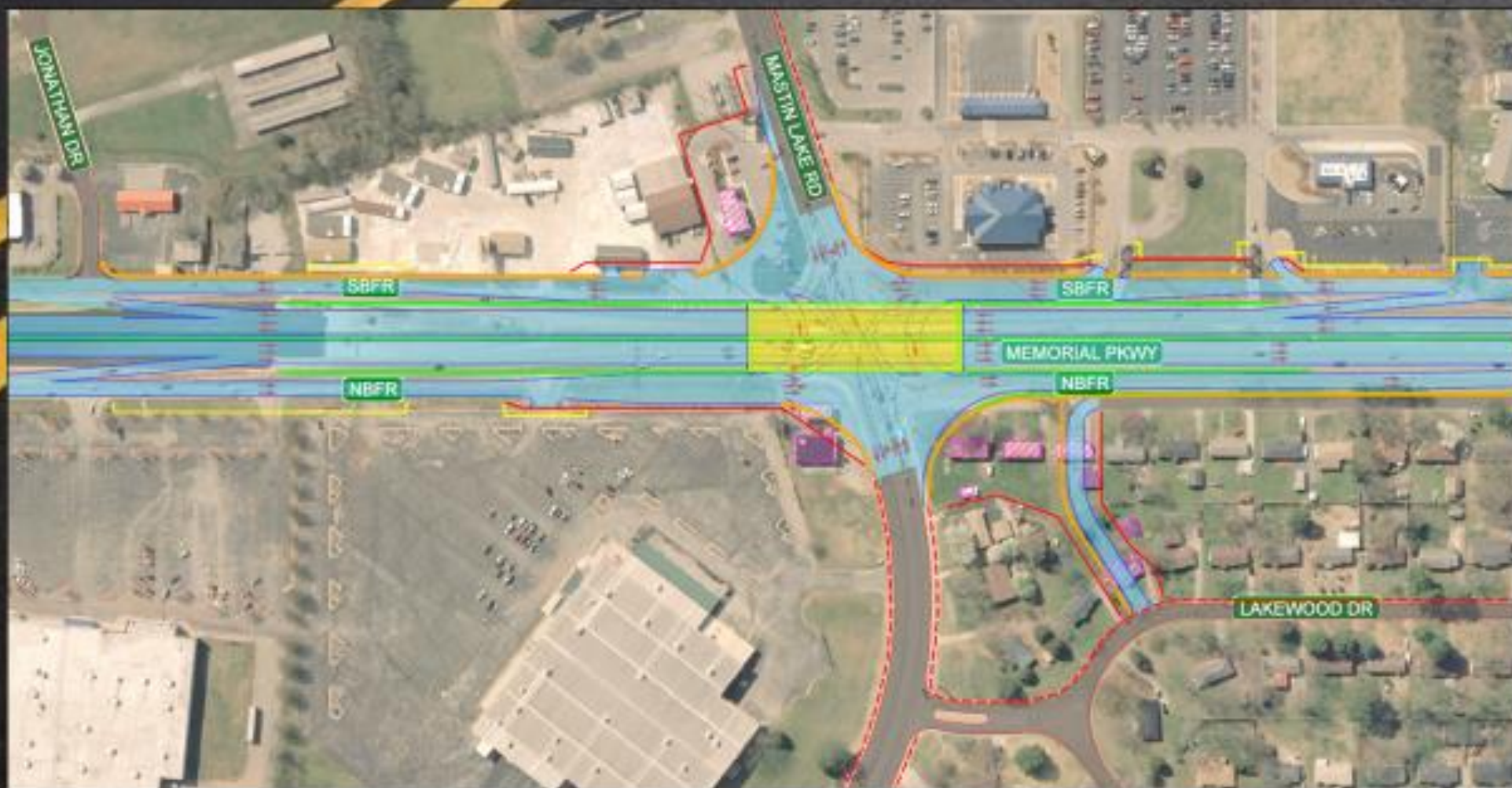
Status: Plans are 50% complete. Virtual Public Involvement Process Completed Fall 2021.

Estimated Cost: \$15,000,000

Anticipated Start Date: FY 2023



North Memorial Parkway



- Estimated \$30 million project
- Extend expressway to include overpass at Mastin Lake Road
- Includes sidewalks and multi-use paths

US 72 West between Providence Main and County Line Road



Status: Plans are 30% complete. Revised intersection concepts being developed. Anticipate additional Public Involvement Early 2022. Right-of Way acquisition anticipated for FY 2023

Estimated Cost: \$60,000,000

Anticipated Start Date: FY 2025

U.S.
72
West

At
Paramount
Drive



U.S. 72 West

*At Target
Entrance*



**Total Amount of Work in Design and
Construction**

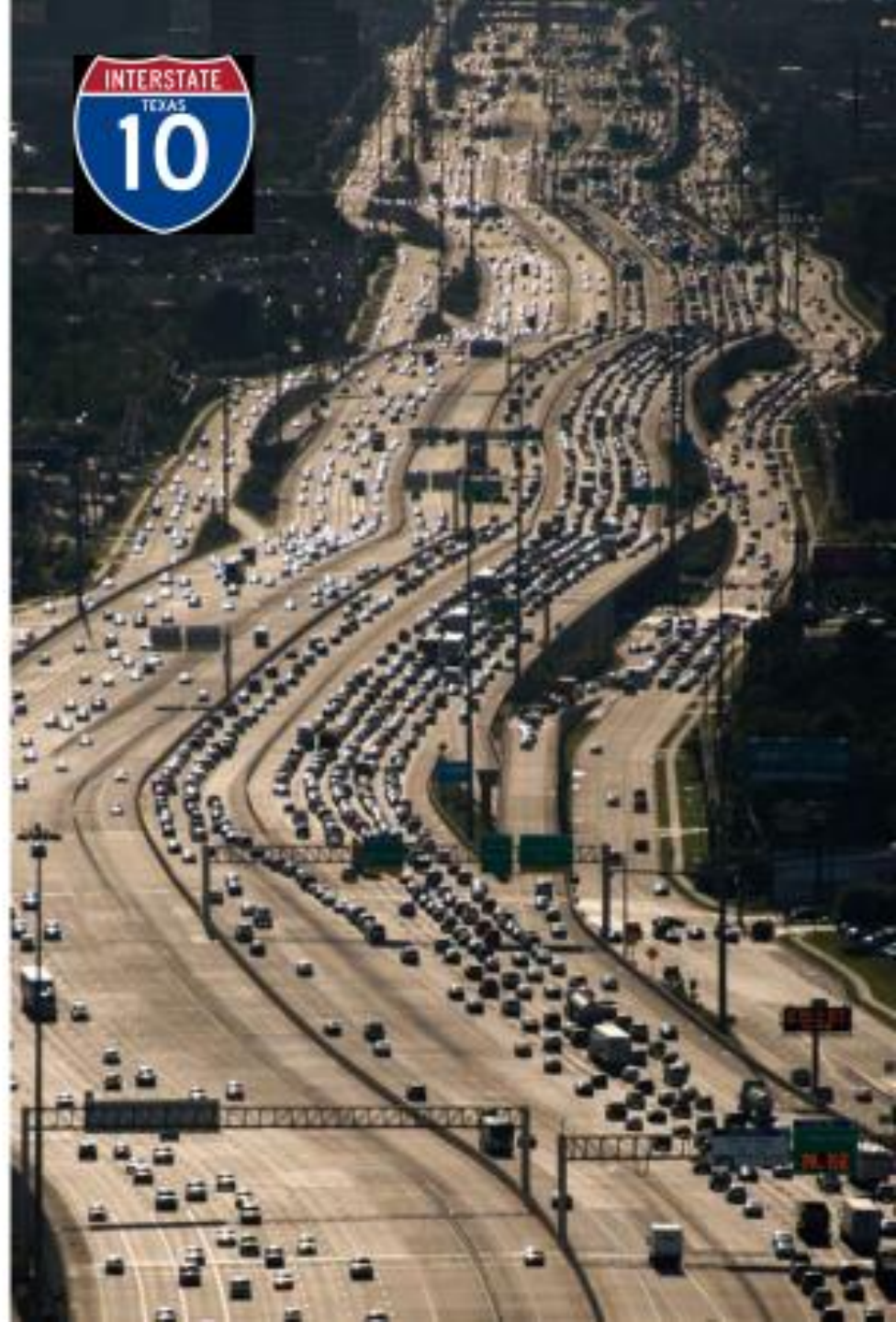
\$404,006,760

Building more can't be the only answer

Avoid situations like this...

Transportation Systems Management and Operations (TSMO)

An integrated set of strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, cross-jurisdictional systems, services, and projects designed to preserve capacity and improve security, safety, and reliability of the transportation system. MAP-21, SECTION 1103 (a) (30) (A)



Alabama DOT

TSM



Transportation Systems Management & Operations

So really, what is TSMO?

- Optimizing the use of existing facility
- Maximizing performance of the system
- Targeted solutions to safety/congestion causes
- Complement to capacity projects



Huntsville Traffic Management Center

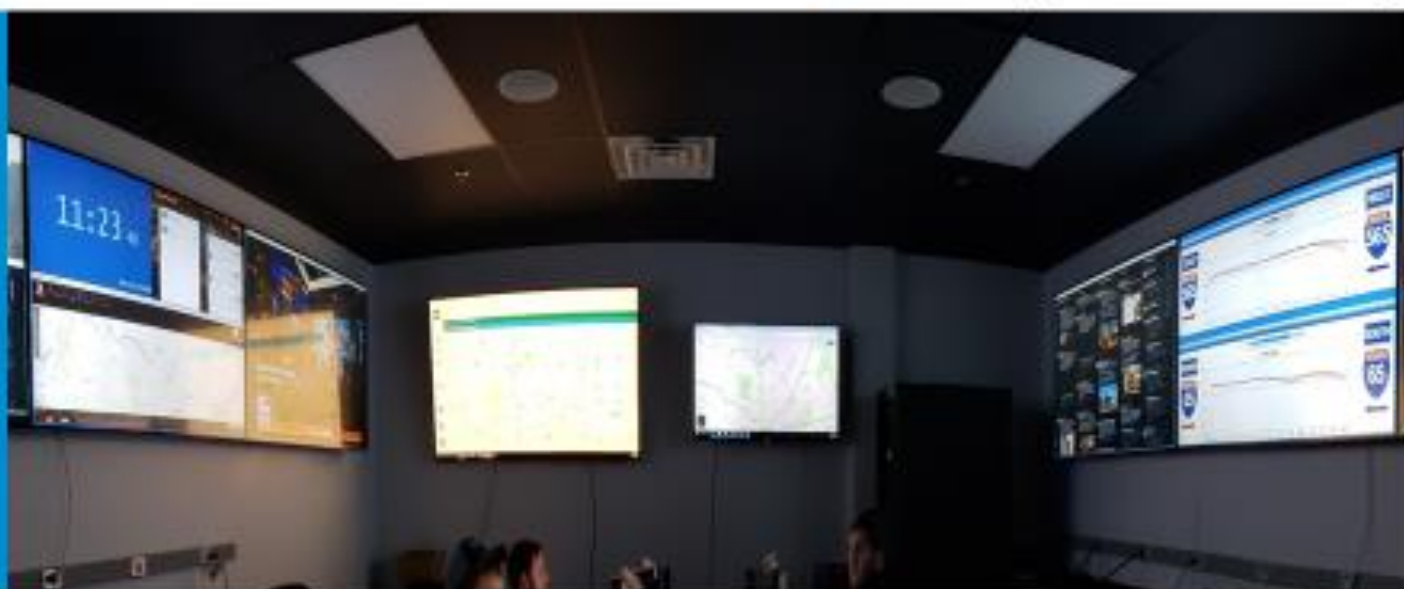
NW 62nd St
Dr Martin Luther

► Location

Olin B. King Technology Hall
Room S230
5000 Technology Dr.
Huntsville, AL 35805

► Hours of Operation

- TMC Operation: **6A-10P Mon-Fri**
(Birmingham after hrs)
- TMC Number: **(256)505-4926**
- Manager: **Glenn Taylor (256)755-0455**



Email: HVLALGORTMC@dot.state.al.us

Huntsville Traffic Management Center

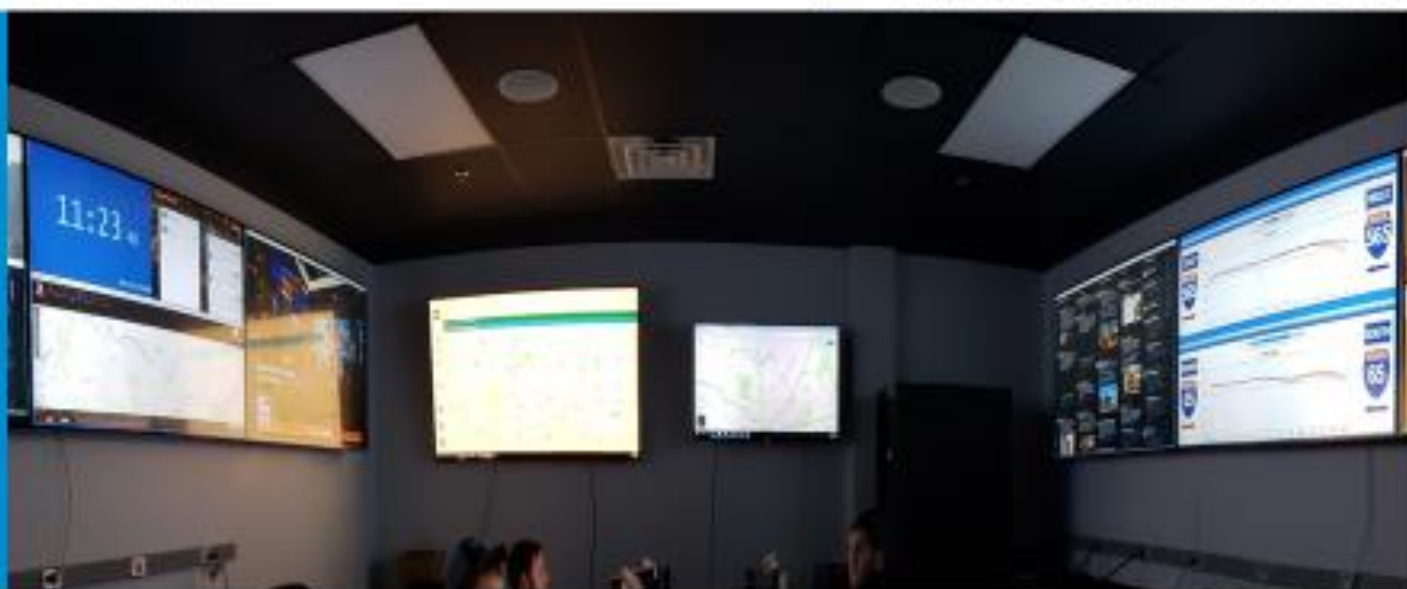
NW 62nd St
Dr. Martin Luther

▶ Current staff:

- ▶ Consultant TMC Manager
- ▶ CEG asst. TMC Manager (night shift management)
- ▶ Two shifts Monday through Friday
- ▶ Day shift: Shift Supervisor and full-time operator
- ▶ Night shift: Asst. TMC Mgr. and full-time operator
- ▶ College students (PCETs and Interns) with various shift times
- ▶ Limited space (18' X 24' room)

▶ Future:

- ▶ Weekend Shift (Sa./Su. 7 A – 7 P)
 - ▶ Additional Operator(s)
 - ▶ Rotational shift supervision
 - ▶ PCET utilization
- ▶ 24/7/365
 - ▶ 3 weekday shifts and 2 weekend shifts
 - ▶ Additional Operators/supervisors
- ▶ Increased space for monitoring (UAH?)



Email: HVLALGORTMC@dot.state.al.us

Better Customer Service – Work Zone Management

- TMC Operations
- Safety Service Patrols
- Traveler Information
- Traffic Signal Coordination

The screenshot shows a website interface for work zone management. At the top, there are logos for the State of Georgia and the Georgia Department of Transportation (GDOT). The navigation menu includes links for ABOUT, FAQ, MEDIA GALLERY, NEWS & UPDATES, DETOUR ROUTES, and a prominent orange button labeled CURRENT CLOSURES. Below the navigation, a dark banner displays several traffic alerts: "on 23rd St N and 15th St N", "Closure on 23rd St N and 15th St N", "Closure on 23rd St N and 15th St N", "Closure on 23rd St N and 15th St N", and "Closure". The main content area features an aerial view of a highway interchange with three large, tilted white cards. Each card displays a map of a specific closure area with detour routes and timing information. The cards are titled "EASTBOUND APPROACHING CLOSURE", "RED MOUNTAIN EXPRESSWAY APPROACHING CLOSURE", and "WESTBOUND APPROACHING CLOSURE". A yellow button labeled "DOWNLOAD CLOSURE POINT MAP" is positioned below the cards. At the bottom of the page, a yellow banner contains the text "CLICK HERE FOR DETOUR ROUTES AND TRAFFIC ALERTS".



CURRENTLY

<https://algotraffic.com>

- 23 CFR Part 511 compliant
- 2 forms of verification system
- Access to all ALDOT traffic cameras
- Roadway incident/crash notification
- Interstate travel times
- Twitter (North Region is @algo_hvl)
- Connected to Google Maps/Waze

Huntsville TMC Partnerships

Current E911 CAD notification emails:

- Madison County
- Morgan County
- Limestone County
- Colbert County
- Cullman County
- Cherokee County

Partnerships to be established:

- *Marshall County*
- *Franklin County*

Under-development E911 CAD notifications:

- Lauderdale County
- Lawrence County
- DeKalb County
- Jackson County
- Etowah County
- ALEA – *currently provides fatality email notifications*



ITS Projects to be developed:

- I-565 Advanced Corridor Management (Fall 2022)
- Gadsden ITS/Advanced Corridor Management (Fall 2023)
- Albertville ITS (Fall 2023)
- Cullman County Advanced Corridor Management and Traffic Signal Communications (Spring 2023/Fall 2023?)
- I-65 from Exit 334 to MP 354 in Morgan/Limestone (FY2024)
- Various RWIS installs and upgrades. Special projects for hot spot cameras.

Regional Traffic Operations Program (RTOP) Projects

- Gadsden US-431, US-411, and SR-77 (ITS combo) letting August 2023
- US-431 Guntersville, Albertville, and Boaz (ITS combo) letting August 2023
 - Cabinet upgrades and comms by ALDOT
 - Temporary use of cell modems to connect prior to full installation
- Region-wide RTOP for 187 signals FY2023 (ITS Capital Program): SR-53, SR-67, SR-133, US-31, US-72, US-231, and US-431
- Utilize cell modems ahead of RTOP projects for comms (reusable if replaced in RTOP project)
- Cabinet upgrades based on Centrac's requirements.



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Traffic Incident Management (TIM)

Alabama Service Assistance Patrol (ASAP)

- Currently: 2 patrol operators, 2 shifts, 1 truck, I-565 (21 miles) and I-65 (6 miles)
- Planned: More patrol/service routes with more trucks and personnel
- Providing support to local law enforcement with traffic control

TIM training classes

- Min. of 3 disciplines per session (law enforcement, fire/rescue, EMT, ALDOT, towing companies, etc.)
- Accord with City of Decatur to train all police/fire

TMC observation and support

- Provide visual access where cameras available
 - Provide public info through ALGO
 - Future: Support RTOP and diversion assistance (public information)
-



ASAP truck

Final thoughts

