

PROJECT SUMMARY

I-459 Intelligent Transportation System

Alabama's Department of Transportation turns to InLine's team of experts for an innovative infrastructure design/build in order to complete their time-sensitive interstate rebuild.

ALDOT OVERVIEW

In 2016, the Alabama Department of Transportation (ALDOT) led a project to replace an elevated section of I-20/59 through Downtown Birmingham which has the highest traffic volume in the state. This required the simultaneous removal of the Interstate bridges in Birmingham's Central Business District (CBD) along I-20/59. All traffic along this corridor would have to be diverted to the I-459 bypass or moved to arterial roadways in the downtown Birmingham area. Much of the diverted traffic passing through the area would traverse the I-459 corridor, but travelers would need to be notified of the detour many miles prior to reaching the impacted area.

In early 2018 ALDOT experienced what the traffic pattern would look like when their contractor had a problem with the placement of an overpass section causing the CBD Interstate corridor to be temporarily shut down. Over the 7-day temporary closure ALDOT determined they needed an innovative and timely solution to handle the traffic volume along their primary diversion route.

With less than a year from the scheduled 14 month CBD corridor shutdown, ALDOT would be required to get an ITS infrastructure designed, built and operational in a record pace. ALDOT's engineers turned to InLine's team of ITS experts to develop a plan that could be immediately executed and brought online by year-end.

“ InLine's innovative underground construction practices overcame barriers allowing the project to be delivered on schedule and on budget.

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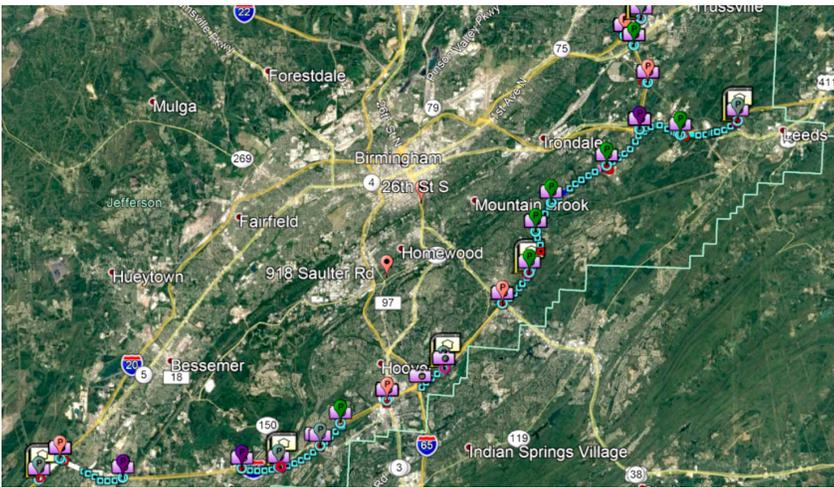


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ITS SUMMARY

InLine's team worked with ALDOT to develop a strategy that would minimize external slowdowns such as railway permitting while maximizing production through innovative technology and construction practices that would expedite the projects timeline. InLine and ALDOT teams were able to complete the design phase in less than 30 days with construction and integration of the ITS infrastructure taking less than 150 days from purchase order to completion. It is important to note that this project was built in the Birmingham area which is an extremely rocky environment that traditionally slows underground production rates greatly. InLine's innovative underground construction practices overcame these traditional barriers allowing this project to be delivered on schedule and on budget.



ITS Infrastructure Deployed	Quantity
Concrete Device Poles (50'-75' AGL)	18
CCTV Cameras	35
Dynamic Message Signs	5
Fiber Cabling Mileage	6 Miles
Electrical Service Conductor Mileage	9.5 Miles
Carrier Grade Licensed Gigabit Microwave Radio links	2
120' AGL Concrete Monopoles for Microwave Links	3
Communication Hut	1
Communication Switching Hardware	41
Project Length	
33 Miles of Interstate	
Cost to Design and Build	
Design - 30 days	
Construction and Integration - 150 calendar days	
August 20, 2018 - January 16, 2019	

“ InLine’s team used innovative technology and construction practices to expedite the project’s timeline.

Project Length:

33 Miles

of interstate

Cost to Design/Build:

\$6.0M

Timeline:

30 Days

Design

150 Days

Construction

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