

## PROJECT SUMMARY

# Advanced Traffic Management System City of Little Rock

### OVERVIEW

**Project Name:** University Avenue Traffic Operations Improvements

**Project Number:** ARDOT 061468

**Project Duration:** 270 Calendar Days

Construction, installation and integration of an Advanced Traffic Management System (ATMS) along over seven miles of University Avenue, a major 4 to 6 lane arterial corridor located within the City of Little Rock's metro municipal area. This system integrates 22 signalized intersections into an adaptive real-time traffic management and signal timing network that is designed to improve traffic flow that reduces travel times, emissions, and congestion improving traveler satisfaction, safety, and environmental impact.

One of the greatest advantages of this network is the real-time monitoring and management from the Traffic Management Center (TMC). TMC Operators, First Responders, and other stakeholders are able to monitor and manage traffic conditions on a real-time basis from their desks. This enables the identification of issues and dispatching of the appropriate resources in the event of an accident, stranded vehicles, or other critical issues along this heavily traveled corridor.

One of the most critical and complicated component of this robust system implementation is the underlying fiber communications network that enables real-time communication between 22 signalized intersections with 106 video detection and monitoring CCTV cameras. With over seven miles of aerial and underground fiber network construction required to complete this important Advanced Traffic Management System.



### CUSTOMER CONTACT

**City of Little Rock**

**Name:** Mike Hood

**Title:** City Engineer

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### Project Overview:

**Type:** Signalized Intersection Upgrade

**Length:** 7.2 Mile Corridor with 4 to 6 lanes along main corridor

**Size:** 22 Signalized Intersections

### Project Scope:

- » 106 Traffic Detection Cameras Installed
- » 7 + Miles of 72 Strand Fiber Network Construction
- » 4 + Miles Aerial Fiber
- » 3 + Miles Underground Fiber
- » 22 New Traffic Signal Heads
- » 6 Traffic Controller Cabinet Replacements Including Traffic Controller Hardware
- » 25 Adaptive Traffic Management System (ATMS) equipment installed into Traffic Controllers
- » Connected Traffic Controllers to newly constructed fiber network
- » Connected Traffic Detection Cameras to newly constructed fiber network
- » Connected Traffic Control Network with City of Little Rock's Traffic Management Center (TMC)
- » Connections enable real-time monitoring, operations, and management of traffic from TMC and other network locations/users/devices

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## PROJECT SUMMARY

# AMAZON Signalized Traffic Intersection Construction

*City of North Little Rock*

## PROJECT OVERVIEW

Project Name: Hwy 70/391  
Improvements  
Project Number: ARDOT 061722  
Project Duration: 180 Days  
(Expedited completion in 30-days  
to help prime contractor's scheduling)

State Highway Improvements  
associated with the new Amazon Facility  
being constructed in the vicinity of State Highway 70/391.

Project involved the following:

1. Roadway Improvements (Approximately 0.7 Miles) along State Hwy. 70
2. Roadway Intersection Improvements at State Highway 70/391
3. New Traffic Signal furnished, installed (constructed)  
and tested at State Highway 70/391

InLine provided the construction and integration of new signalized intersections that included the following:

- » System local controller with communications interface for a coordinated traffic control system
- » Traffic signal poles, mast arms, and concrete foundations
- » Traffic signal heads and components using LED technology
- » Traffic signal controller with uninterruptible power supply
- » Color vehicle video detection cameras
- » Pan-Tilt-Zoom camera for intersection viewing



## CUSTOMER CONTACTS

### City of North Little Rock

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### Prime Contractor:

#### Redstone Construction Group

Name: Andy Rose  
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### Project Overview:

### Signalized Intersection

#### Project Scope:

- » 1 EA System Local controller TS 2-TYPE 2  
- (8 PHASES)
- » 16 EA Traffic Signal Head, LED,  
- (3 SECTION, 1 WAY)
- » 1 EA Traffic Signal Head, LED,  
- (4 SECTION, 1 WAY)
- » 2 EA Countdown Pedestrian Signal  
Head, LED
- » 9 EA Concrete Pull Boxes
- » 2 EA Traffic Signal Mast Arm & Pole/  
Foundation (22')
- » 1 EA Traffic Signal Mast Arm & Pole/  
Foundation (36'-26')
- » 1 EA Traffic Signal Mast Arm & Pole/  
Foundation (48'-30')
- » 1 EA PTZ Camera System
- » 8 EA Video Detector Camera
- » 1 EA Traffic Controller UPS, Cabinet, &  
Foundation

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