## SASOL HEAVY HAUL ROAD PROJECT



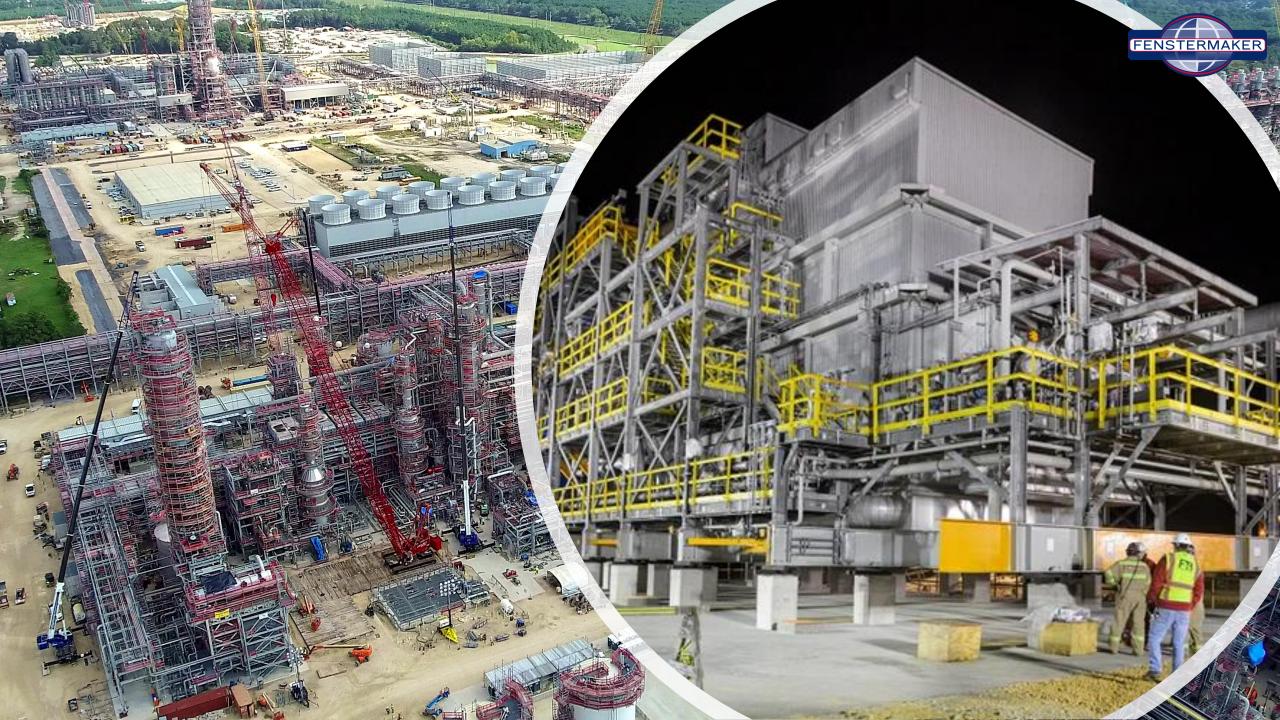


**FUNCTIONALITY BY DESIGN** 

Experience · Innovation ·

"Today is a great day for Westlake, Calcasieu Parish and our entire state. Today's announcement is not only one of the most exciting announcements in the history of Southwest Louisiana, but one of the most significant economic development wins our state – and our nation – has ever recorded. Sasol is one of many energy companies that is expanding in Louisiana because of our world class energy infrastructure, strong business climate, and incomparable workforce.

"Never before in our nation's history has there been a greater call for energy independence, but that independence will only result from a meaningful application of innovative and practical solutions for new sources of energy. This project is a giant step forward to help our country become more energy independent and less reliant on foreign sources of energy."



## **HEAVY HAUL ROUTE**

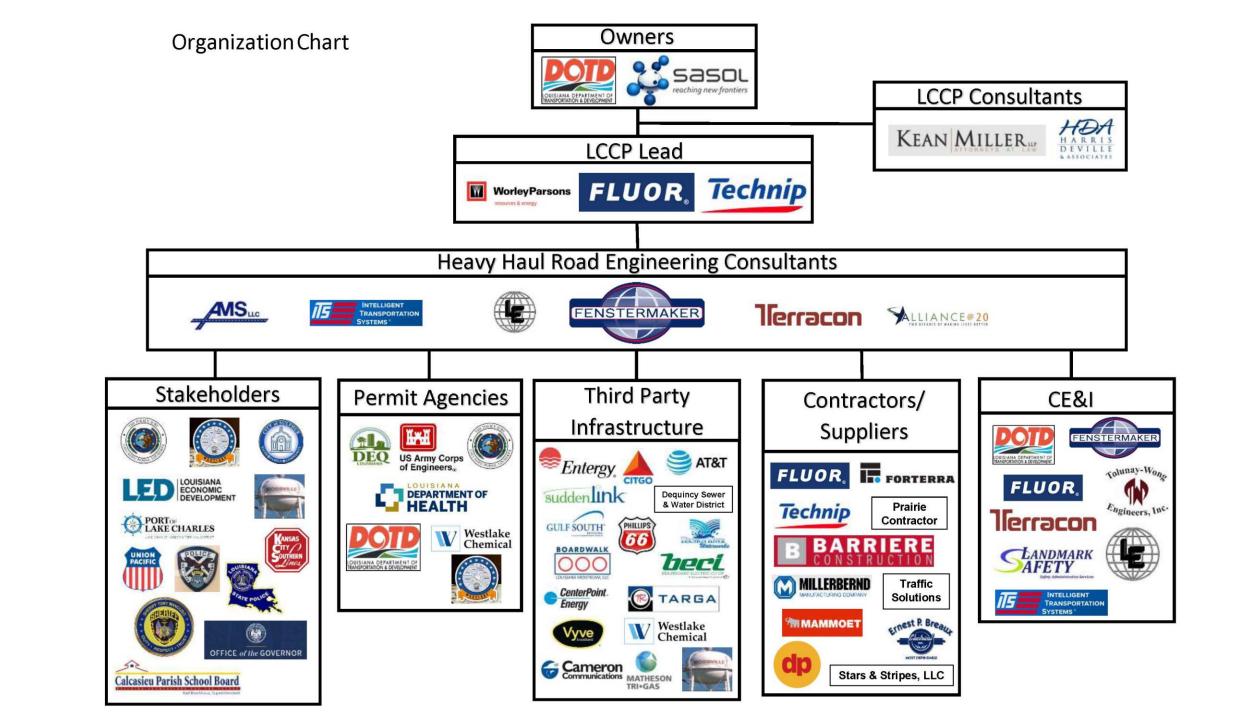


## THE LAYOUT









## **PERMITS**

1 Maintenance Permit



4 Project Permits

7 Traffic Signal Permits



10 Utility Permits





13 Access
Connection Permits



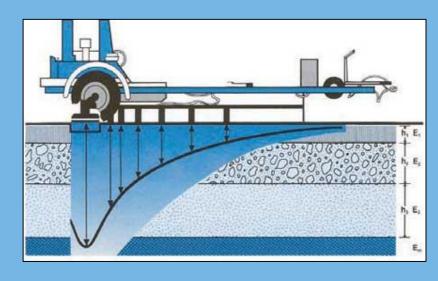
## **FWD PAVEMENT ANALYSIS**

- Falling Weight Deflectometer
- Evaluates the physical properties of the pavement
- Estimates pavement structural capacity

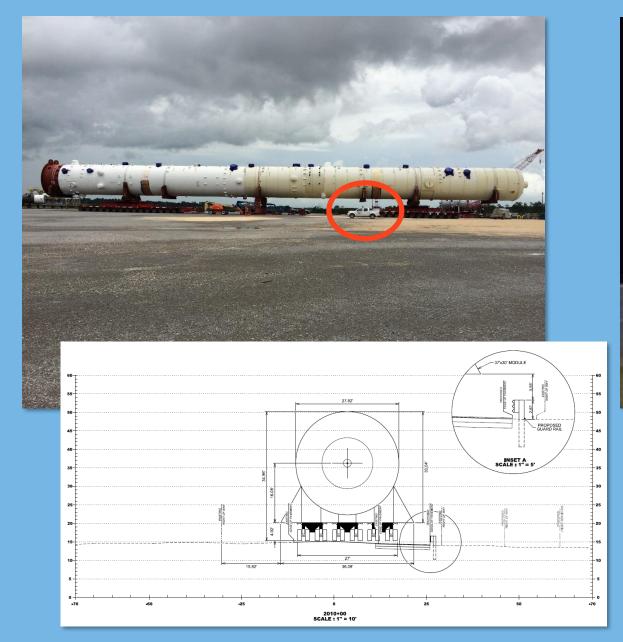


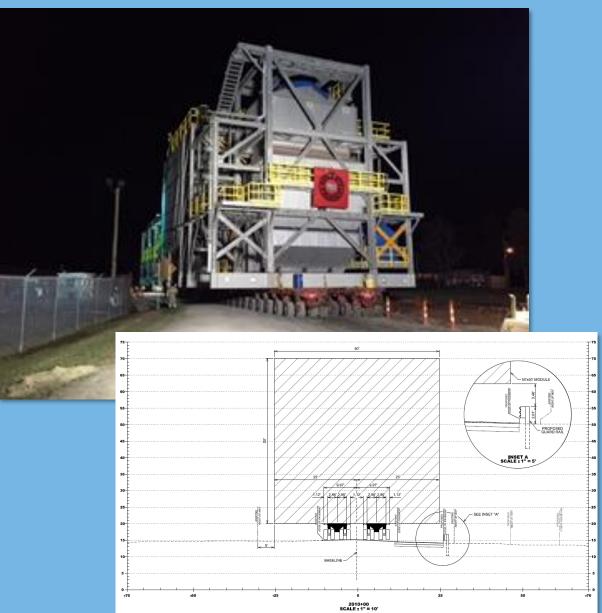


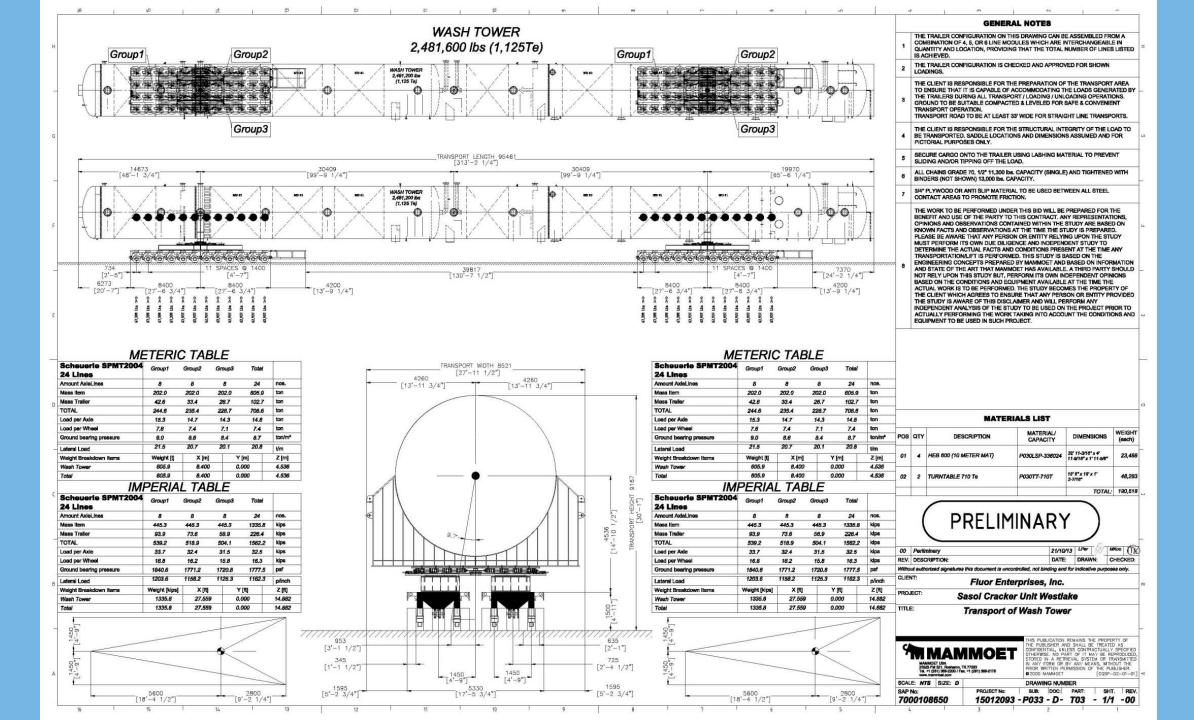


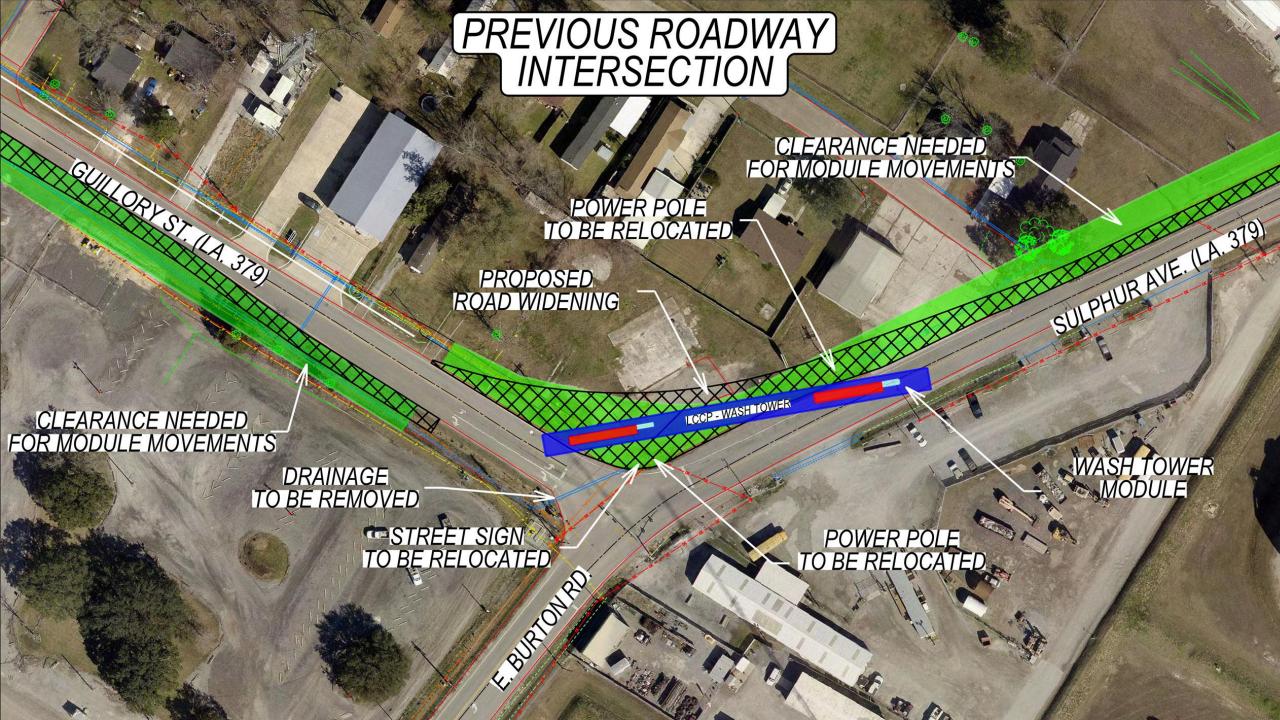


## Module Design Specifications











## **ROTATING MAST ARMS**

- Louisiana's first traffic signal with hinged mast arms supports
- Two mast arms, one 45' long and another 55' long
- Must rotate easily
- Sasol was required to have back up signals
- Replace with standard signal after

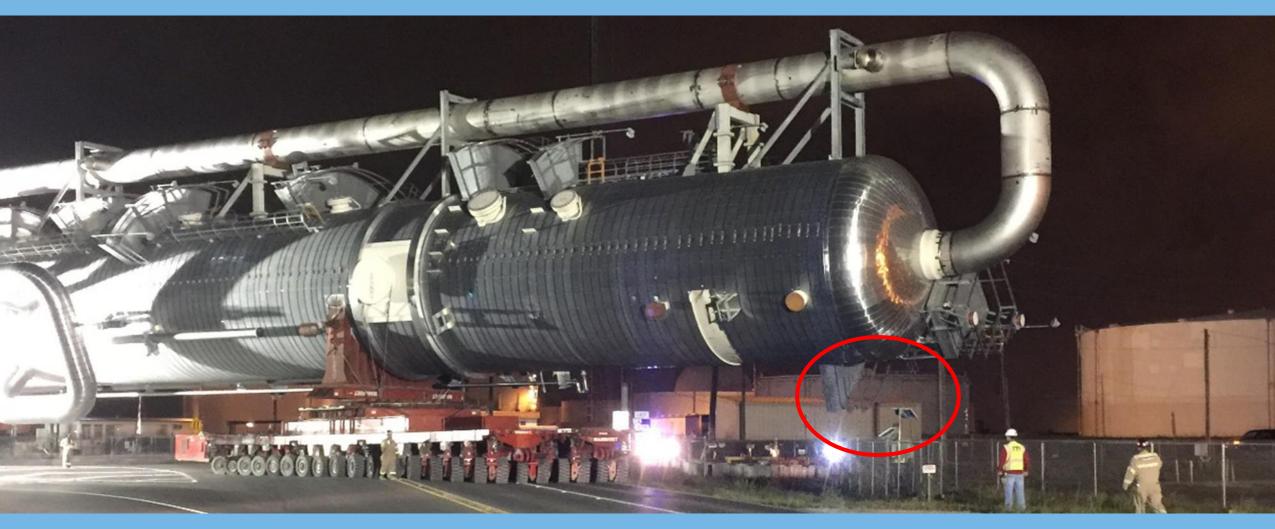


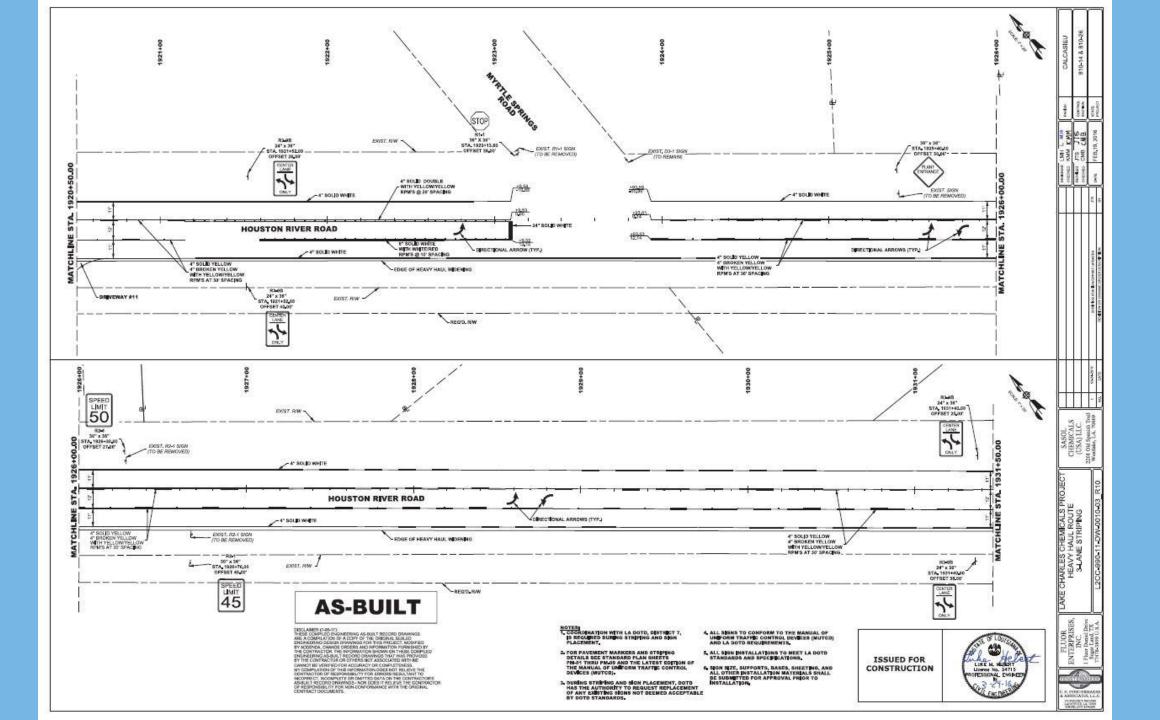




## THINGS HAPPEN

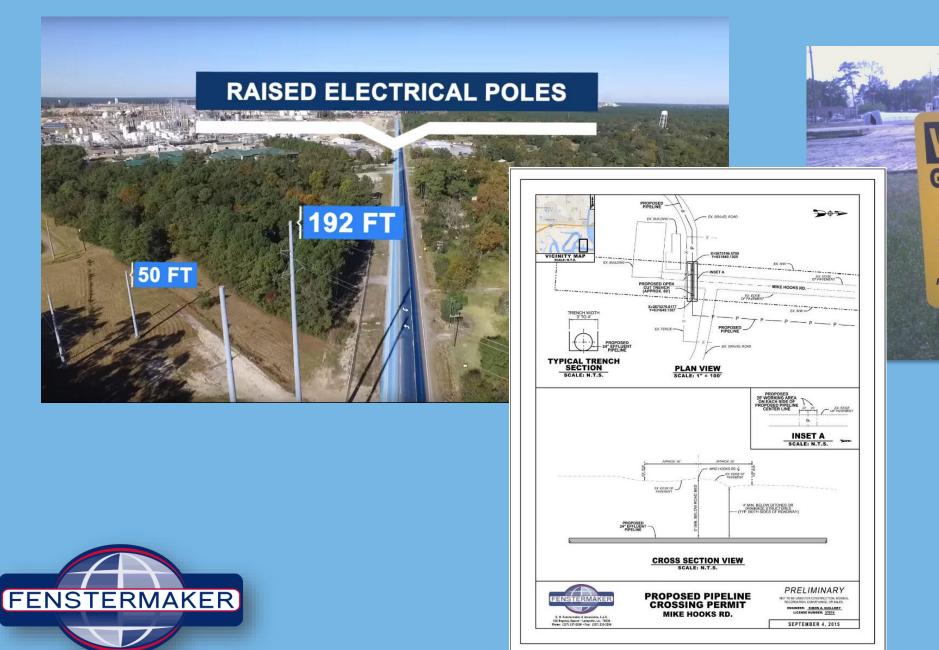




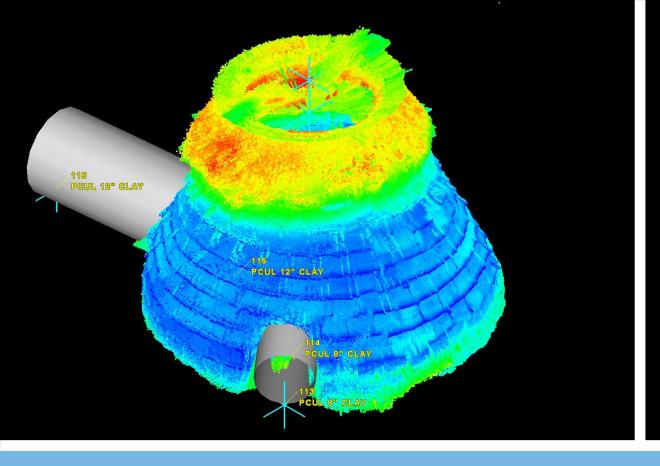


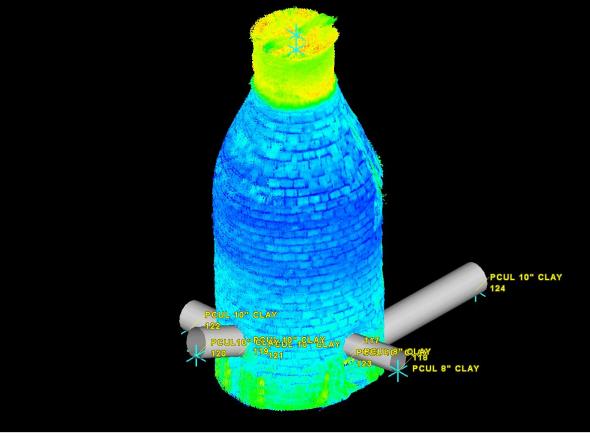
## **UTILITY RELOCATION**











## LASER SCANNING



## **SAFETY**









LAKE CHARLES CHEMICAL PROJECT
Safety Bulletin No. 193



# CONSTRUCTION





Subsurface Drainage Installation

Over 100 Submittals Reviewed



Concrete Pavement Preparation







Subgrade Treatment Preparation Nearly 200 Requests for Information





## **DOTD 2059**

- La DOTD Materials and Testing Section
- Procedure to ensure proper Quality Assurance documentation
- Typical on construction projects completed by DOTD



DOTD-2059-13

### STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

#### SUMMARY OF TEST RESULTS

State Project Number Federal Project Number	r
Project Name	
Route Number Parish	
Transmitted herewith are copies of documents used to determine the the above project, including the project sampling plans, the MATT Syreport, and the Independent Assurance Certification (if required).	
All material used on the project were in conformity with the requirement indicated by acceptance test results and other documentation. Exceptindicated below and explained on the referenced reports.	
Disposition of failing test report attached	No failing tests
Error and omission report attached, or typed below	Not applicable
Certified Correct, Project Engineer	Date
Verified & Approved, District Laboratory Engineer	Date
Annroved, Area Engineer	Date

# TRAFFIC IMPACT ANALYSIS & ADAPTIVE TRAFFIC MANAGEMENT





### **ADAPTIVE TRAFFIC MANAGEMENT SYSTEM**

"In partnership with Sasol, that's making a huge investment here in Louisiana, they came to the table not only interested in working with us to build a Heavy Haul Route, but to do something *innovative* in the system...and that is our State's *first* adaptive traffic signal. That's going to provide tremendous benefit for the travelling public."

"The system adjusts the traffic signal timings based on actual traffic demand and helps reduce the amount of congestion. It enhances safety, reduces delays and shortens travel times for drivers, and it's something DOTD would like to see implemented in many other areas across the state."

- Dr. Shawn Wilson, Louisiana DOTD Secretary





## **ADAPTIVE TRAFFIC MANAGEMENT SYSTEM**

# FENSTERMAKER

### Communications

- Originally designed to have fiber optic communications installed
- DOTD agreed to allow a cellular communications system

## **Vehicle Detection**

- Magnetometers (PODS)
   were recommended for
   the Adaptive System
- First corridor-wide application of magnetometers by Trafficware





## **HEAVY HAUL ROUTE HIGHLIGHTS**



2017 ABC Excellence Award





**Zero Lost Time Incidents** 

## **HEAVY HAUL TODAY**

- 13 Temporary Access Connection Permits
- 11 Permanent Access Connection Permits
- Currently Permitting Permanent Driveways





## **HEAVY HAUL ROUTE TODAY**

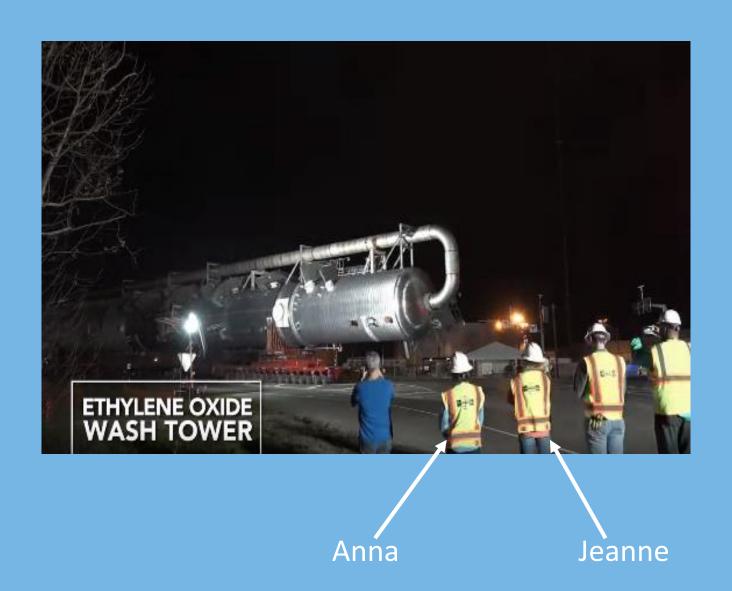
Maintenance Rides Patching Striping







## JUST IN CASE YOU MISSED IT....





# QUESTIONS

