99% SEDIMENT YIELD REDUCTION IN TWO EASY STEPS



ALDOT ENVIRONMENTAL

AN EVOLUTION OF THINKING, FOCUS, AND APPLICATION (PHILOSOPHY)



ENVIRONMENTAL VISION:

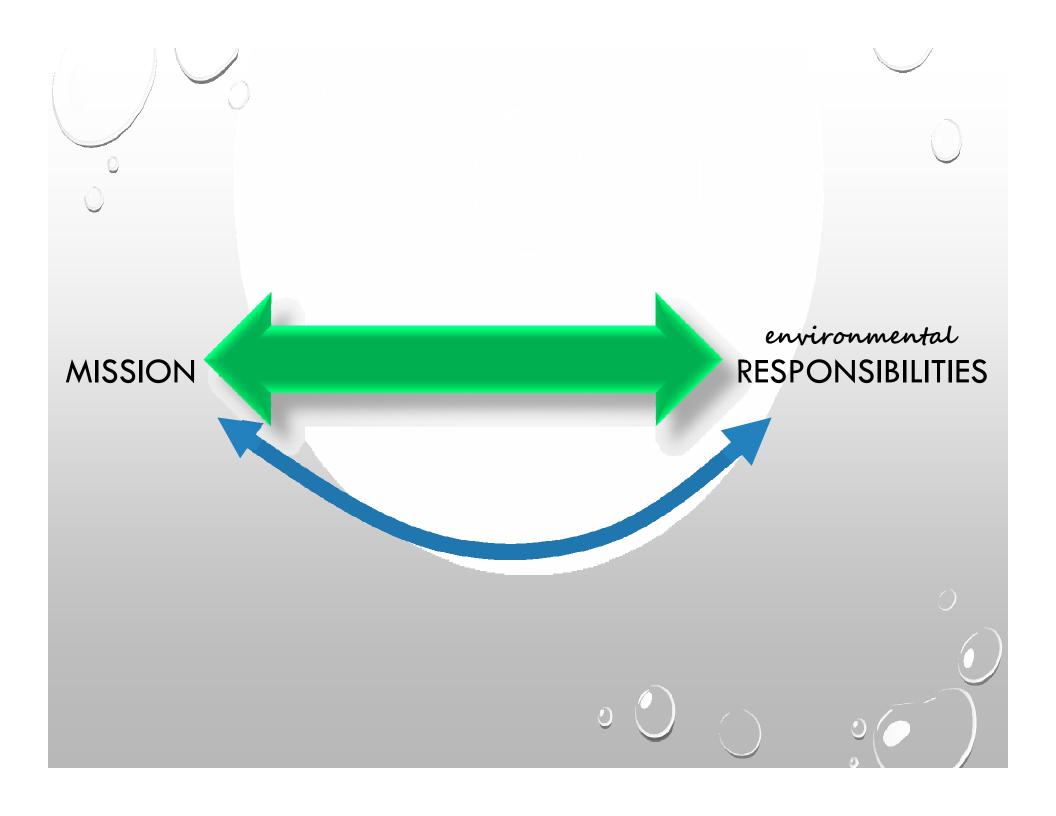
AN INTEGRATED ENVIRONMENTAL CULTURE...



ALDOT'S MISSION:

TO PROVIDE A TRANSPORTATION SYSTEM...





ALDOT ENVIRONMENTAL

AN EVOLUTION OF THINKING, FOCUS, AND APPLICATION (TECHNICAL)



EVOLUTION



IMPLEMENTATION - WORK

CAUSE WATER

SOURCE ROSION

SYMPTOM -> SEDIMENT

A = RKLSCP A = sediment yield tons/acre/year



Project Mission:

- to add two lanes to a section of 120/59 in Tuscaloosa
- Widen to inside
- Governor priority
- April letting

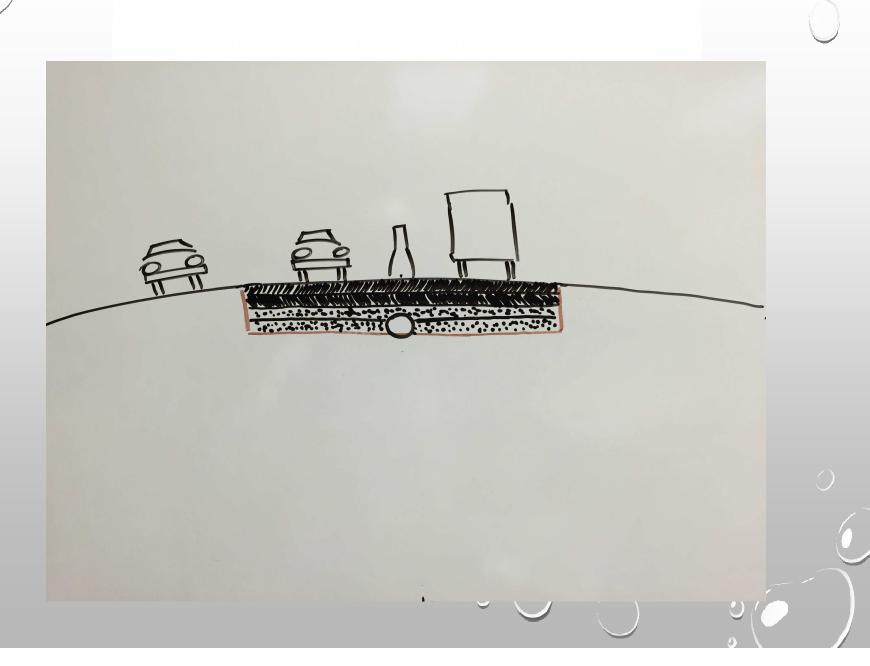




MISSION:







A CASE STUDY ACTIVITIES:

A CASE STUDY ACTIVITIES:

A CASE STUDY ACTIVITIES:







POTENTIAL IMPACTS:

- IMPACTS TO HABITAT
- IMPACTS TO WATER QUALITY
- IMPACTS TO PRIVATE PROPERTY
- REGULATORY ACTIONS
- CIVIL ACTIONS
- EMBARRASSMENT
- LOSS OF TRUST AND GRACE



ENVIRONMENTAL RESPONSIBILITIES:

- REGULATORY
 - GENERAL PERMIT
 - TMDL -
 - 32% TURBIDITY REDUCTION
 - 60.8 NTU LIMITATION
- SOCIAL EXPECTATIONS
 - HURRICANE CREEKKEEPER
 - FRIENDS OF HURRICANE CREEK
 - BLACK WARRIOR RIVERKEEPER
 - CLEAN WATER PARTNERSHIP
- ALDOT COMMITMENT TO PROTECT THE ENVIRONMENT





HOW?



- to add two lange to a on of 120/59 in Tuscaloosa
- Widen o insid
- General prior y
 April tting



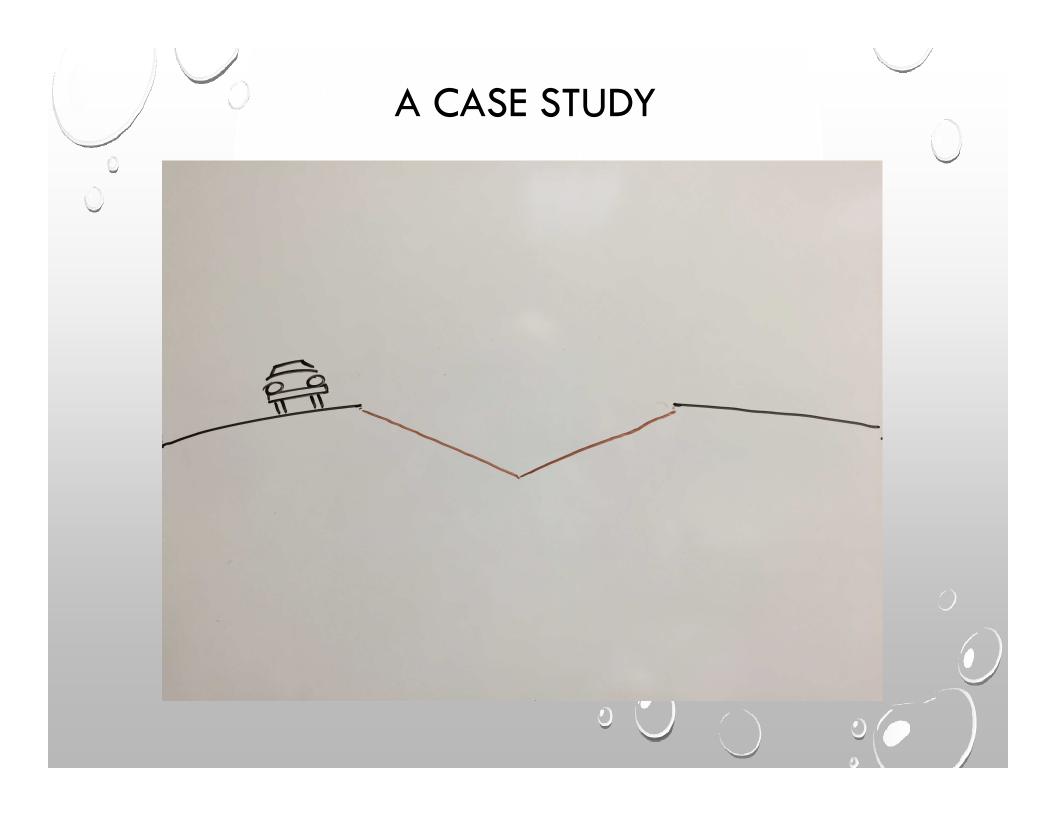


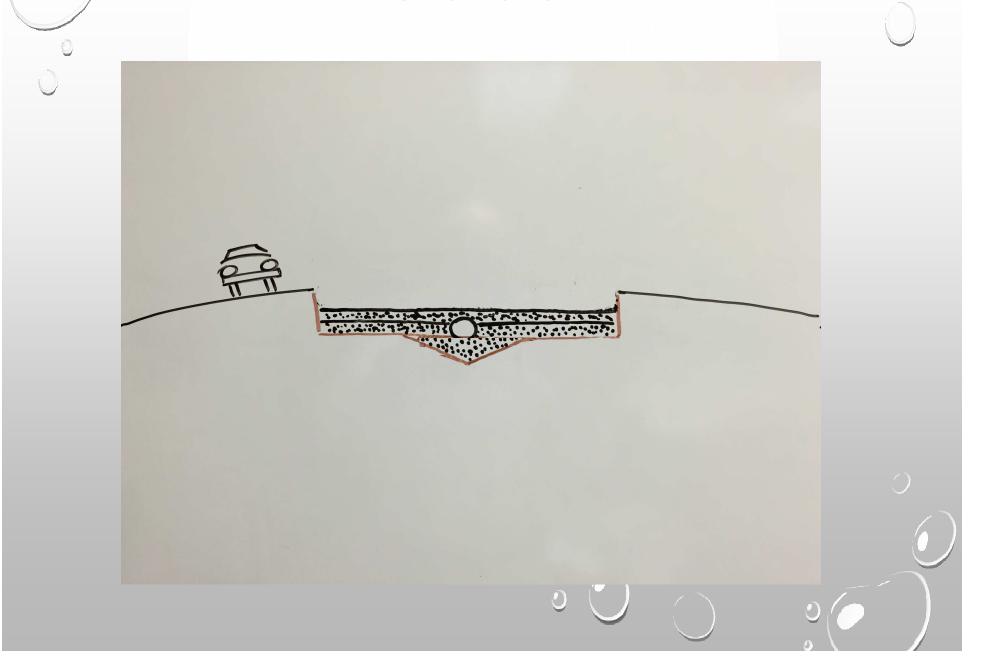
THE FIVE PILLARS OF CONSTRUCTION STORMWATER MANAGEMENT

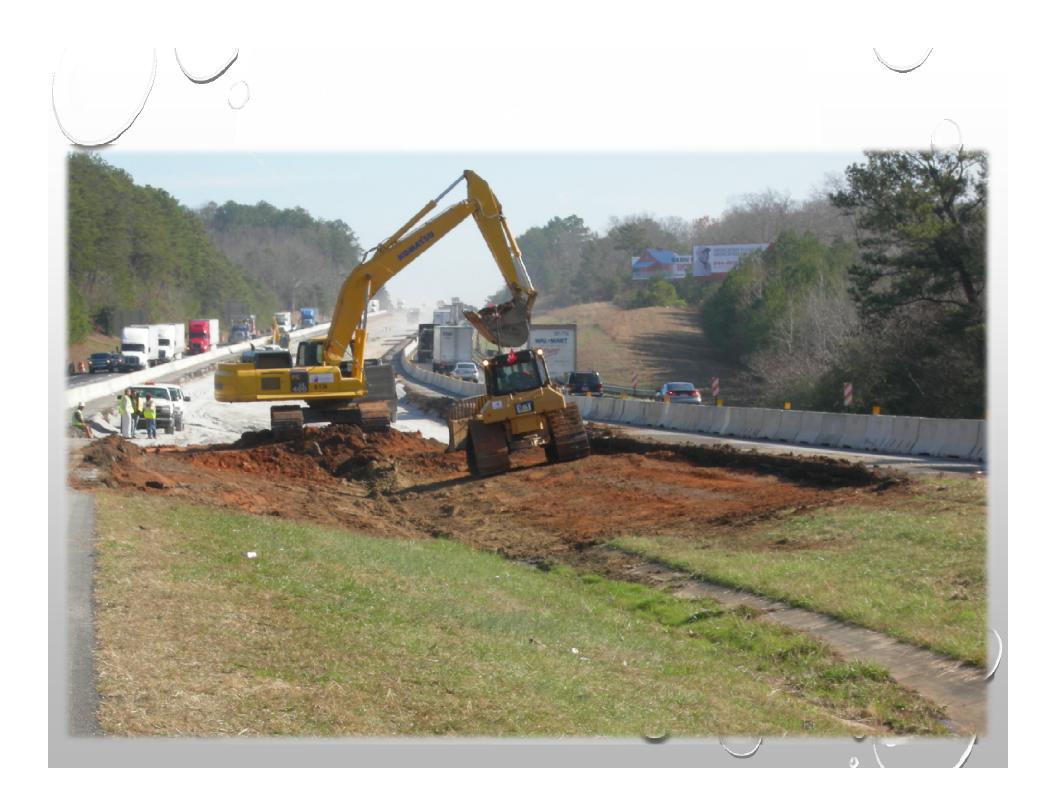
- COMMUNICATION THE BEST MANAGEMENT PRACTICE.
- WORK CONTRACTORS CAN DO JUST ABOUT ANYTHING.
- WATER CLEAN WATER IN, CLEAN WATER OUT.
- EROSION GREEN IS GOOD.
- SEDIMENT SEDIMENT CONTROL ALONE IS INEFFECTIVE.

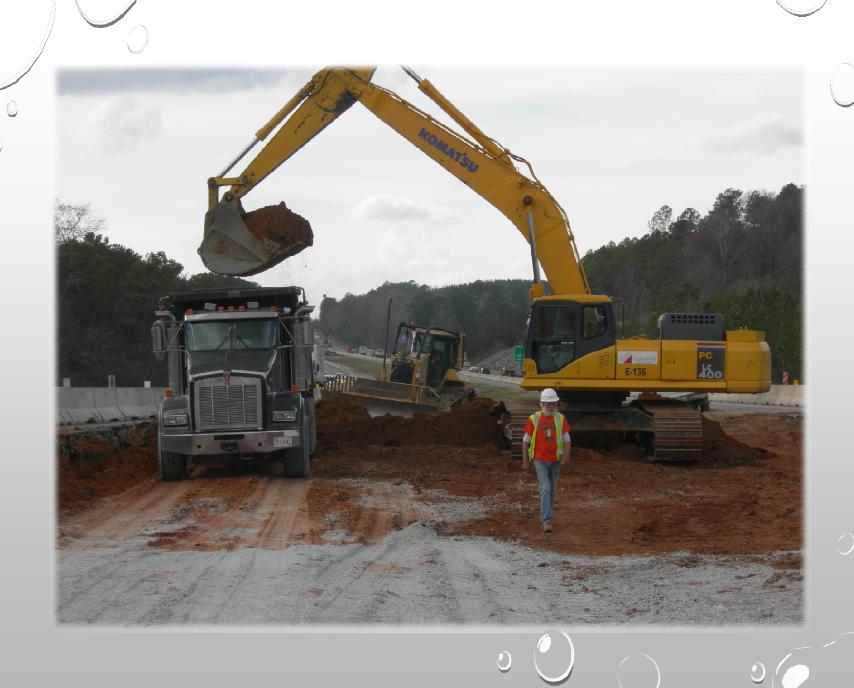
A = RKLSCTA = sediment yield in tons/acre/year









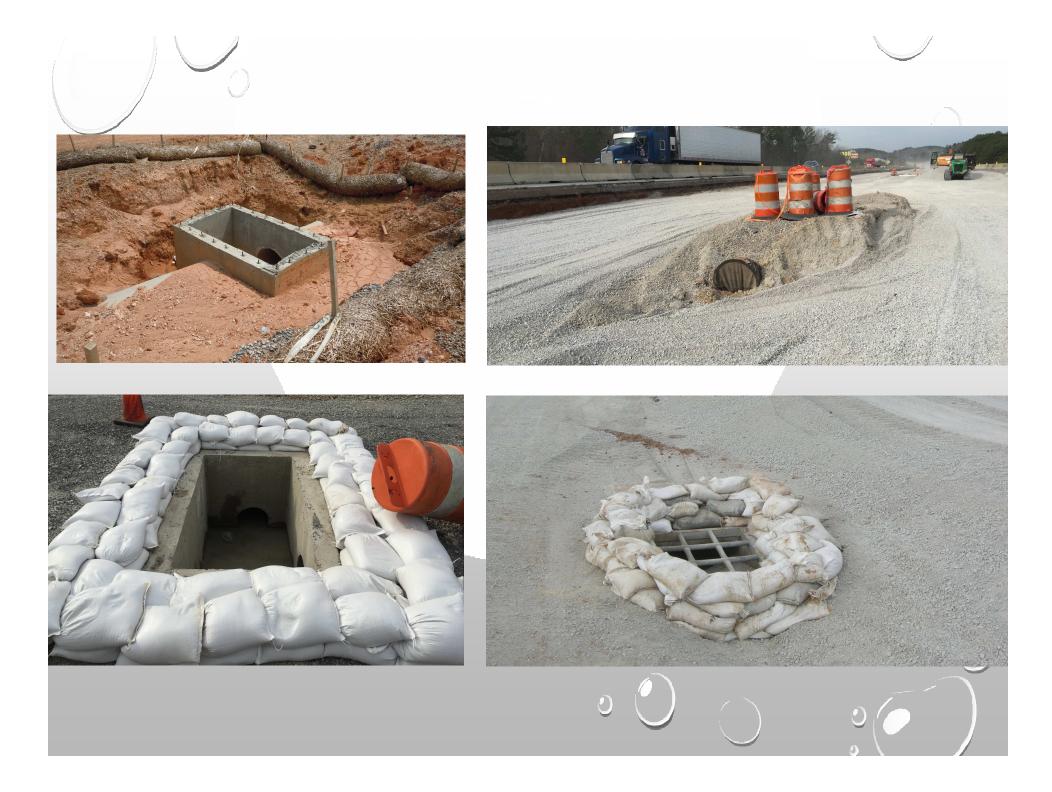












"WE CAN'T DICTATE THE CONTRACTOR'S MEANS AND METHODS... CAN WE?"

- MHY NOTS
- THE CONTRACTOR WORKS FOR US, RIGHT?
- WE HAVE DIFFERENT INTERESTS.
- WE HAVE EXPERTISE WHERE THEY DON'T.





"DIDN'T THAT SLOW PRODUCTION?"

- CONTRACTOR:
 - "WE MAY HAVE BEEN SHUT DOWN FOR A DAY AFTER A RAIN, NOT A WEEK."
 - "UNLESS THE RAIN WAS FALLING, WE WERE WORKING."



"DIDN'T THAT SLOW PRODUCTION?"

• CONTRACTOR:

- "WE WOULD HAVE WAITED UNTIL APRIL TO START RATHER THAN LAST NOVEMBER... AND WE WOULD NOT HAVE BEEN SHIFTING TRAFFIC TODAY."
- "PRODUCTION WAS INCREASED BY AT LEAST 35%."

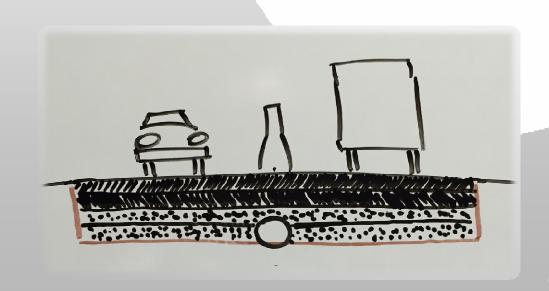


"WHAT ABOUT QUALITY?"

"This is actually a better structural buildup."

- Lyndi Blackburn, P.E.

ALDOT Asst. State Materials & Tests Engineer



"IF YOU DON'T MIND ME ASKIN', HOW MUCH DID SHE SET YOU BACK?"

- SIGNIFICANT CONTRACT COST INCREASES (>\$400,000)

 NOT CONSIDERING SAVINGS DUE TO IMPROVEMENTS IN -
 - SAFETY
 - REDUCTION IN TRAFFIC DELAYS
 - PRODUCTION
 - HEADACHE



DO YOU REALIZE WHAT WE JUST DID?

- ENVIRONMENTAL PROTECTION, WITH BENEFITS IN...
 - QUALITY
 - SAFETY
 - TRAFFIC
 - PRODUCTION
 - COST



"I HAVE NEVER SEEN A BETTER RUN ROAD PROJECT BY ALDOT."

"THAT DOESN'T MEAN I BELIEVE THEY CAN BUILD
THE EASTERN (BOONDOGLE EXPRESSWAY) BYPASS
WITH THE SAME CONTROL. WE'LL SEE."

- John WathenHurricane Creekkeeper BlogJune, 2015



