Project #14405 – End Zone Design for Alabama Deep Prestressed Girders

http://utca.eng.ua.edu/research/projects/?id=14405

Record Type: UTC

The goal of this proposed research project is to provide a practical engineering solution to the end zone cracking problem.

The main objective of the proposed research project is to provide the ALDOT Bridge Bureau with practical and experimentally verified end zone details, to minimize end zone cracking issues, prolong the service life and improve the durability of pretensioned concrete girders in Alabama. The strain monitoring data will offer a unique opportunity to better understand the complex end zone behavior of pretensioned concrete girders. The recommended long span girder design can not only be directly applied in future ALDOT bridge design practice, but also contribute to solving end zone cracking --- a nation-wide concern on implementing the structurally efficient design of long span deep girders.

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Status: Active Contract/Grant Number: GR24733
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Source Organization: University Transportation Center for Alabama

Sponsor Organization
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Subjects:

- Bridges and other structures
- Design