

Project:

I-540 Overpass Repair, Job No. 040484

Location:

Fayetteville, AR 72704

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Owner:

Arkansas State Highway and Transportation Department

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General:

Crouse Construction Company

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Description:

The scope of the work was for design and construction of 65 rock anchors for support on opposing bridge abutments. The abutments had experienced significant rotation to the point the bridge was supporting the overturning load of the walls. The solution was to install a pattern of anchors through the abutment and construct a new CIP abutment wall. The anchors were founded in rock and post-tensioned against the existing wall. The work was limited to the shoulder and a drainage ditch and the top row was limited by the bridge girders. Because of the limitations 4 strand tendons were used and locked off at 135 kips. Corrugated sheath was used as additional corrosion protection.

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