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The City of Crossville recognized the potential liability and tremendous impact failure of the dam could cause, and initiated the restoration and modification of the existing Meadow Park Dam to ensure that the structure would remain stable and functional, and comply with the Safe Dams Act.

Environmental & Civil Engineering Services (ECE Services) of Crossville, Tennessee was retained by the City of Crossville as the primary consultant. ECE Services provided a series of reports, investigations, geotechnical studies, design and construction services to address the dam's condition. ECE Services' recommendations for renovation of the dam was approved by the City and construction began in 2011. As you can imagine, this \$6.5 M dam renovation project was no simple undertaking. The renovation work included installation of post tension rock anchors into the underlying sandstone bedrock to address overall dam stability, and a complete grouting and concrete repair program to address the concrete deterioration, joint conditions and leakage through the dam.

The renovation construction contract was awarded to Bryman Construction Corporation of Saxonburg, Pennsylvania. Byman Construction has over 60 years of public and private experience, specializing in complex heavy/civil infrastructure projects.

Irving Materials, Inc. (IMI) of Crossville, Tennessee was selected as the readt mix producer and supplier for the project. During the construction phase of the project, the outside temperature ranged anywhere from 20°F up to 105°F. IMI, Brayman Construction and ECE Services worked closely together in scheduling concrete placement around these drastic temperature ranges.

The Meadow Park Dam Renovation Project took a tremendous amount of cooperation and coordination between the City of Crossville, ECE Services, Irving Materials Inc., and Brayman Construction Corporation. The project was deemed to be success for all involved, and it was finished on time and under budget.

The dam renovation project ultimately provided the City of Crossville with:

- A new and modern facade for the dam
- Stability of the dam
- Assurance of adequate water volume and quality
- Assurance of no serious safety and environmental consequences
- Compliance with the Safe Dams Act

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