

### Schradin Road, Butler County, Ohio

This project consisted of the realignment of 710 feet of existing County Road 219 and the replacement of a deficient 60' span bridge. The initial project scope was for a prestressed I-Beam or rolled steel beam structure. Due to the extreme skew (60°), CEC examined the possibility of a culvert replacement structure and determined that a three-sided Reinforced Concrete Culvert was a much more suitable and cost-effective solution. The culvert span is 38', much less than the 70' span required by a conventional bridge. This solution saved Butler County considerable time and money on the project.

CEC used software developed in-house (which automatically generates final bridge or culvert plans) to produce the final structure drawings. Project completion time to final plans was about four months (including review time). The project completed construction in 1995.



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