

SIMILAR EXPERIENCE

TRANSPORTATION



Project Data

- Role: Structure replacement, aesthetic features, environmental impact studies

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CTH P BRIDGE REPLACEMENT

WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHWEST REGION –
VILLAGE OF CROSS PLAINS, DANE COUNTY, WISCONSIN

As part of the award-winning USH 14 Reconstruction project, Mead & Hunt Replaced the deficient CTH P Bridge in the Village of Cross Plains. The new two-span reinforced concrete slab bridge was designed to minimize impacts to Black Earth Creek which is an environmentally-sensitive, high quality trout stream. Several alternatives were evaluated to determine a final span configuration that would best limit environmental impacts, cost and site constraints. This required close coordination with the Wisconsin Department of Natural Resources (WDNR).

The new bridge was designed to meet current Wisconsin Department of Transportation and American Association of State Highway and Transportation Officials design standards as well as to accommodate bicycle and pedestrian traffic. Tall abutments and a natural path were provided to give sportsmen and residents access along the creek without having to venture out of their way and cross traffic at nearby, busy intersections. These intersections, located close to both ends of the bridge, required turn lanes to start on the bridge to direct traffic in both directions. This was accomplished by using a raised median and wider bridge to maintain the necessary clearances. Aesthetic features were incorporated in the design to enhance the appearance of the bridge, including architectural surface treatment, concrete color staining and painted ornamental metal railings.

Prior to construction, Mead & Hunt's bridge engineers worked with County staff to keep the existing bridge open and able to safely carry traffic until the new bridge was constructed the following year. Now completed, the new CTH P Bridge provides a safe and maintenance-free crossing over Black Earth Creek that accounts for all users of the bridge and surrounding area.



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