

Design Quality Index Report

9/10/2018

Contract ID 20170912002

Project ID 5018-00-71

County Monroe

Federal ID wisc 2017450

Region SW

Number of Factors Rated 16

Highway TWN RD

Total Factor Score 99.4

Construction on time? Yes

Project Index 6.2

Evaluation Date 09/10/18

Consultant Design Firm MSA

Project Cost 350,612.00

Inhouse Design

Representing

Raters Jeff Merten

WisDOT

Remarks

Overall design was good. Only issues involved existing floor slab removal, existing water depth, and borrow pit restoration quantities.

Ratings

- 1 = Major problems, not constructable without major plan or design changes
- 2 = Major to moderate construction problems, moderate design or plan changes
- 3 = Moderate problems, constructable, minor design or plan changes
- 4 = Moderate to minor construction problems, minor to no design or plan changes
- 5 = Minor construction problems, no plan or design changes
- 6 = Minor to no construction problems
- 7 = No construction problems

<u>Factor</u>	<u>Rate</u>	<u>Comments</u>
Right of Way(adequate to construct)	6.0	No major problems. Would have been nice to have extra TLE in bypass roadway area for stockpiled topsoil.
Horizontal Alignment(fit)	7.0	No Problems, bypass roadway alignment allowed adequate room for construction activities.
Vertical Alignment (fit and drainage)	7.0	No problems.
Earthwork	6.0	No major problems. Some EBS on south approach roadway no fault of designer.
Work Zone Traffic Control Plans	7.0	No problems.
Erosion Control Plans	4.0	Turbidity barrier could not be installed according to plan and had to be installed in stages and resulted in an ECIP amendment. No quantities included for borrow pit restoration.
Construction Staging	4.0	Staging the removal of the existing floor slab in the stream with turbidity barrier was an issue.
Utility Coordination	7.0	No problems.
Special Provisions	7.0	No problems.
Consistency between plans and special provisions	7.0	No problems.
Drainage	7.0	No problems.
Quantities	6.0	Items for borrow pit restoration were missing.
Contract Time	7.0	Appropriate time was given to account for deck curing and adverse weather days.
Structures	AVG. 6.4	
Plans accurate and complete	7.0	No problems.

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Soils information and Foundation Details	7.0	Piling drove to depth called out in the plan consistently.
Utility information accurate && complete	7.0	No problems.
Special Provisions clear and concise	7.0	No problems.
Ease of assembly and construction	4.0	Removal of existing floor slab in the water was an issue.
Survey	4.0	Stream water depth was significantly deeper than the plan showed on the downstream side of the existing bridge which caused issues with turbidity barrier and the temp structure.
Soils	7.0	No problems.