



Wisconsin Department of Transportation

July 2, 2018

**Division of Transportation Systems
Development**

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

**Proposal #14: 1195-06-62, WISC 2018 309
Rice Lake – Spooner
Culvert C-03-0022 North CTH O Intg
USH 53
Barron County**

Letting of July 10, 2018

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
13	Culvert Pipe Concrete Lining, Item SPV.0105.01

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

1195-06-62

July 2, 2018

Special Provisions

13. Culvert Pipe Concrete Lining, Item SPV.0105.01.

*Replace entire section titled **B Materials** with the following:*

B Materials

Furnish the concrete lining spray, with a maximum 1.75" thickness, confirming to the following properties under laboratory conditions;

Compressive Strength	ASTMC39 or C109	1 Day	2,500 psi
		28 Day	8,000 psi
Flexural Strength	ASTM C78	7 Day	800 psi
		28 Day	1,300 psi
Tensile Strength	ASTM C496	28 Day	800 psi
Shrinkage	ASTM C1090	28 Day	0% at 65% RH
Modulus of Elasticity	ASTM C469	1 Day	3,000,000 psi
		28 Day	5,200,000 psi
Bond Strength	ASTM C882 Type II	1 Day	900 psi

*Replace entire section titled **C Construction** with the following:*

C Construction

Install and inspect the liners according to manufacturer's specifications. A copy of a work plan that includes design calculations shall be submitted to the engineer. The design calculations shall be signed and sealed by a professional engineer licensed in the State of Wisconsin and shall certify the proposed liner thickness.

The design of the pipe liner shall conform to the AASHTO LRFD Bridge Design Specifications and meet the following load requirements:

Live Load

Design Loading:	HL-93
Inventory Rating Factor:	Rf = 2.0
Operating Rating Factor:	Rf = 3.0
Wisconsin Standard Permit Vehicle (Wis.-Spv):	250 (kips)

Earthload

Design for 3 – 8.5 ft of fill.

The pipe liner design shall provide complete structural support of the design loads and shall assume the existing host pipe has no structural capacity.

The Contractor shall provide means necessary through the use of depth gauges or other approved methods to check the thickness of the proposed lines in at least three (3) locations around the inner surface of the pipe every twenty (20) linear feet of pipe. Depth gauges may be left in place within the liner. These measurements must be written down in a log book which will be submitted to the Department.

The Contractor shall apply the approved designed liner thickness. Additional material thickness applied by the Contractor will be at the Contractor's own expense. No separate additional payment will be made for any extra material thickness applied above the approved designed liner thickness.

END OF ADDENDUM

