LAKES REGION PLANNING COMMISSION

103 Main Street, Suite #3
Meredith, NH 03253
tel (603) 279-8171
fax (603) 279-0200
www.lakesrpc.org

Lakes Region Transportation

Technical Advisory Committee (TAC) Meeting

Wednesday, May 4, 2016

Humiston Building First Floor Conference Room, 103 Main Street, Meredith, NH

AGENDA

2:00 Call to Order and Introductions
Approve Draft Minutes of April 6, 2016 (requires a motion)
Introductions
Public Comment

2:10 Regional Updates

Scenic Byway Advisory Committee – Outreach Schedule
CommuteSmart – Review website and Lakes Region content

2:25 NHDOT Public Consultation Process

Comments on draft document

2:35 LRPC Pilot Projects – Results Summary
Hill RSMS and Barnstead SADES Culverts - D. Callister

2:55 Trenchless Rehabilitation of Underground Infrastructure
Presentation – Peter Goodwin, Client Services Manager, Ted Berry Company, Inc.

- Repair options
- Potential cost savings over replacement
- Longevity of repair products

3:55 Other Business
Next meeting

4:00 Adjourn

Choosing the Right Culvert Repair Solution

Choosing the right approach to solve your specific repair situation is not always a simple task. The appropriate solution depends on the type of culvert deterioration, the root cause of the problem, and the extent to which the structure of the failing culvert allows you to rehabilitate rather than replace. The full solution to rehabilitating a deteriorated culvert may also depend on correcting failed conditions on the outside of the culvert at the inlet and outlet.

In the mid-1980s, the Federal Highway Administration (FHWA) developed a 10 point scale (9 to 0) that is useful as a guideline for assessing the condition of the culvert. In this scale, 9 represents a culvert in new condition, and 0 represents one that has totally failed.

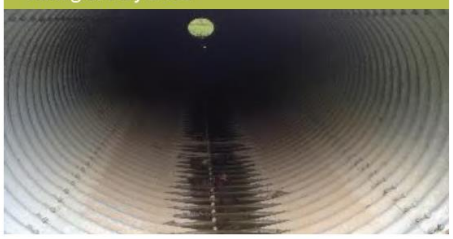
Milliken Infrastructure offers a number of solutions to repair or rehabilitate a variety of problems seen in corrugated metal (CMP) and concrete pipe culverts. Our solutions may be used individually to solve a specific issue, or together to fully rehabilitate a culvert with a range of problems. Some examples are:

PROBLEM	CULVERT TYPE	SOLUTION
Scour/Pitting of Invert	CMP	Milliken Concrete Cloth™
	Concrete	Milliken GeoSpray™
Shape deformations	CMP	Milliken GeoSpray™
Joint failures or misalignments	CMP Concrete	Milliken GeoPlug™ Milliken GeoSpray™
Cracks	Concrete	Milliken GeoFuse™ Milliken GeoSpray™
Inlet/Outlet Erosion	All	Milliken Concrete Cloth™
Deterioration (rebar corrosion)	Concrete	Milliken GeoSpray™

Generally speaking, Concrete Cloth™ functions as a new wear surface for culvert inverts and as an erosion control measure for culvert surrounds, and is not a structural repair. Milliken products (GeoSpray™, GeoPlug™ and GeoFuse™) can provide structural repair options for more severe culvert failure conditions.

This guide is intended to help guide maintenance professionals with the selection of appropriate Milliken Infrastructure culvert repair solutions.

Rating 8: Very Good



Rating 6: Satisfactory

Rating 5: Fair

Rating 4: Poor

Rating 3: Very Poor

Additional Information Sources:

Choosing the Right Culvert Repair System
http://infrastructure.milliken.com/site/user/files/1/Culvert-Repair-low-res-0115.pdf

Culvert Repair Best Practices, Specifications and Special Provisions – Best Practices Guidelines, January 2014
http://www.lrrb.org/media/reports/201401.pdf