



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Janet T. Mills
GOVERNOR

Dale F. Doughty
COMMISSIONER

April 27, 2026
Subject: Large Culvert Rehabilitation
WIN:029178.00
Location: Sanford and Alfred
Amendment No. 1

Dear Sir/Ms.:

The following questions have been received:

Question: Background: MaineDOT-approved GeoKrete (or equal), along with Injection Grouting with I&I Guard (or equal), has provided a better finished product at lower costs (and the same lifespan/warranty) as the specified UV-Cured GRP on large arch culverts like this. That all could be achieved at the same thicknesses listed in these specifications. There are also dewatering, coffer damming, and environmental advantages inherent to that approach.

Additionally, at this size and to our knowledge, the UV GRP would have to be fabricated overseas and freighted from there (Belgium or Germany). Accepting SAPL using Geopolymer per ASTM F3706 as an equal would allow the project to be performed in accordance with Buy American. Our firm provides both and will bid, regardless of the response here.

Would the Owner accept SAPL via Geopolymer, along with Injection Grouting, as an equal or better alternate for the specified UV-Cured GRP?

Response: No. The proposal doesn't provide the same structural value

Question: We would like to submit GeoKrete® geopolymer for consideration as an approved alternative to the specified GRP sliplining system.

GeoKrete is a fully structural, spray-applied geopolymer mortar designed to restore deteriorated pipe while providing long-term corrosion resistance and eliminating infiltration. The material can be applied in a single pass at thicknesses up to several inches, creating a monolithic structural liner with compressive strengths exceeding 8,000 psi and excellent resistance to acidic environments (tested to pH 1.0 with no mass loss) .

This system provides a comparable structural renewal approach to GRP sliplining while offering advantages in application flexibility, thickness control, and performance in high H₂S environments.

Please find the attached submittal for your review. We would appreciate your consideration for approval as an acceptable alternative lining system.

Would the Owner accept SAPL via Geopolymer, along with Injection Grouting, as an equal or better alternate for the specified UV-Cured GRP?

Response: No. The Environmental Permit was issued specifically for a GRP liner.

Consider these changes and information prior to submitting your bid on **April 29, 2026**.

Sincerely,



George M. A. Macdougall P.E.
Contracts & Specifications Engineer