In an effort to sustain the condition of the Bridges under the jurisdiction of the Highway Department the following task shall be performed in the manner and at the intervals stated.

The Bridges effected by this S.O.G. are:

1. Pecker Bridge on Main Street 127/117
2. The bridge over the Lamprey River on Epping Street 137/119
3. The bridge over the Lamprey River on Prescott Road 160/094
4. The bridge over the Exeter River on Blueberry Hill Road 134/060
5. Onway Lake Road over Onway Lake Outlet 134/060

A. In the spring of each year, each identified bridge shall be swept free of all accumulated sand, salt and debris.

B. Upon completion of sweeping each bridge shall be washed with the pressure washer or fire hose. This washing shall include all exposed surfaces, undersides, abutments, backwalls, seats, etc. It is important that undersides of the bridges receive as much attention as topsides.

C. Once each year the bridge decks, railings and approaches shall be inspected and any deficiencies or damage repaired. All deck surface cracks in the asphalt paving shall be sealed with an appropriate asphalt sealant, and all encroaching vegetative growth shall be cut or removed.

D. Every second year all concrete surfaces of all bridges shall be treated with an application of double boiled linseed oil cut with petroleum spirits at a mix rate of 50/50, or other proprietary concrete preservative. (This product is available from A.H. Harris of Portsmouth, NH). The concrete treatment shall be applied by sprayer, brush or roller in whatever manner is most appropriate to mitigate environmental concerns.
CONCRETE TREATMENT APPLICATION INSTRUCTIONS

Material: 50% double boiled linseed oil and 50% petroleum spirits (AASHTO M-233-79 Type II).

Time of Application: Surfaces should be cleaned and washed annually in the spring of the year and oiled every two years. Linseed anti-spalling compound can be used on new and old concrete.

Linseed anti-spalling compound can be applied to concrete of any age. However, it is most effective in preserving sound concrete surfaces.

Pre-Application conditions:
1. The concrete should be dry and the solution should not be applied within 24 hours of a rainstorm.
2. Remove sand and debris from joints, drains and bridge shoes (use high pressure water wash or fire hose and let dry 24 hours).
3. New concrete should be at least two weeks old. Ideally, it should be 28 days old.
4. The ideal atmospheric temperature at the time of application is 70 degrees Fahrenheit or above. Successful applications have been made, however, at temperatures as low as 35 degrees Fahrenheit.

Application:
Two coats are recommended, applied as follows:
   1st coat: 0.25 gal. per sq. yd.
             (40 sq. yds. per gal.)
   2nd coat: 0.15 gal. per sq. yd.
             (67 sq. yds. per gal.)
Application may be spray or hand but should be uniform. The coverage of each coat shall not be more than 50 square yards per gallon of mixture.

When applying the mixture to concrete surfaces, the workmen should take all necessary precautions to ensure that the mixture does not contaminate adjoining asphalt pavements. The mixture will cause a potential safety hazard by making the asphalt pavement slippery. Also, the petroleum based linseed oil mixture may have a tendency to weaken the asphalt.

Complete drying should be permitted between coats. At temperatures of 70 degrees Fahrenheit or above, drying is complete within a few hours. At lower temperatures, proportionately longer drying times are required.

Caution: Linseed anti-spalling compound has a flash point around 120 degrees Fahrenheit. While not dangerously flammable, it nevertheless should not be heated.

Care should be exercised to cover the concrete surface completely; including all edges, which are sometimes missed in spraying. Maximum protection is afforded only when coverage is complete.