

Appendix G

VHB background and examples of project experience

VHB has extensive experience inspecting, load rating and designing railroad bridges along the east coast. Over the past 25 years, VHB has provided these services for multiple state agencies including the Maine Department of Transportation, Massachusetts Department of Transportation, Vermont Agency of Transportation, Virginia Department of Transportation, Florida Department of Transportation and Connecticut Department of Transportation. Additionally, VHB has worked with railroad owners and operators including the Massachusetts Bay Transportation Authority, Metro-North Railroad, Metropolitan Transportation Authority, Northern New England Passenger Rail Authority, SunRail, Pan Am Railways, Norfolk Southern Railway and many others. VHB's inspection team for this project had over 100 combined years of experience and included four NBIS certified team leaders and two NBIS certified inspectors. The load ratings and preliminary repair and strengthening recommendations were developed by a team with extensive railroad bridge load ratings and design experience which included six Professional Engineers licensed in the State of Maine.

VHB has successfully completed many similar projects including:

South Coast Rail Bridge Evaluations, Southeastern Massachusetts – VHB completed the inspection, load rating, and preliminary rehabilitation design for 45 railroad bridges on an active freight railroad line as part of the establishment of commuter rail service from Boston to Fall River and New Bedford, Massachusetts for the Massachusetts Department of Transportation. Within 90 days, VHB developed condition assessments, load ratings, inspection and rating reports, preliminary rehabilitation design, and construction cost estimates for the 45 structures.

Restoration of Passenger Rail Service, Boston, MA to Portland, ME – VHB completed in-depth inspection and structural analysis of 47 Boston & Maine railroad bridges for the Northern New England Passenger Rail Authority. VHB developed a bridge rehabilitation program in cooperation with the railroad to replace or repair 33 bridges to allow use of the rail line by the Downeaster passenger rail service. Additionally, VHB provided full-time resident engineering services, including contract administration, construction inspection and field engineering during the construction phase of the project.

Passenger Rail Upgrade of the Rockland Branch Rail Line, Brunswick to Rockland, ME – VHB performed the inspection, analysis, design, contract plan development, and construction support for six railroad bridge replacements for the Maine Department of Transportation. The bridge rehabilitation program was developed to allow the initiation of passenger rail service between Brunswick and Rockland, Maine.

Railroad Load Rating and Inspection, Vermont – VHB performed inspection, analysis and rating for 18 steel truss and girder railroad bridges along the Lamoille Valley Railroad, the Green Mountain Railroad and the Vermont Railway for the Vermont Agency of Transportation. The project included condition inspections, load ratings for 3 different vehicles at multiple operating speeds, and development of inspection reports and rehabilitation recommendations.