



COMMONWEALTH of VIRGINIA

Commonwealth Transportation Board

Sean T. Connaughton
Chairman

1401 East Broad Street
Richmond, Virginia 23219

(804) 786-2701
Fax: (804) 786-2940

Agenda item # New Business 1

RESOLUTION OF THE COMMONWEALTH TRANSPORTATION BOARD

June 20, 2012

MOTION

Made By: Dr. Davis

Seconded By: Mr. Miller

Action: Motion Carried, Unanimously

Title: Authorization to Enter into a Memorandum of Understanding with the North Carolina Department of Transportation Concerning Sonar Bridge Surveying at the Herbert C. Bonner Bridge over Oregon Inlet

WHEREAS, the Herbert C. Bonner Bridge (hereafter referred to as the Bonner Bridge) over Oregon Inlet in North Carolina has been subject to volatile and rapidly changing environmental conditions that make effective control of scour difficult; and

WHEREAS, scour (defined as the removal of sediment such as sand and rocks from around bridge abutments or piers) is a common cause of bridge failure, effective monitoring of the extent of this condition is essential to maintaining the integrity of these structures; and

WHEREAS, conditions at the Bonner Bridge have been noted by the US Coast Guard and the Army Corps of Engineers, along with the Federal Highway Administration (FHWA); and

WHEREAS, NCDOT has made a commitment to local FHWA officials to develop a comprehensive scour monitoring program for the Bonner Bridge; and

WHEREAS, the harsh environment to which the Bonner Bridge is exposed is not conducive for the effective long-term use of conventional, permanently-mounted scour monitoring devices; and

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WHEREAS, although the North Carolina Department of Transportation (NCDOT) is acquiring specialized surveying equipment, and is developing plans to construct further scour protective measures, it is necessary, in the interim, to monitor conditions very closely, until such protective measures are in place; and

WHEREAS, the Virginia Department of Transportation (VDOT) hydrographic survey team, using sonar-based survey equipment, can complete the task in approximately two weeks instead of the several-month period normally required, thereby allowing NCDOT to complete its monitoring plan in a more timely manner; and

WHEREAS, because VDOT has the specialized equipment necessary to perform the type of survey needed, NCDOT has requested assistance from VDOT to perform sonar survey for scour protection monitoring at the Bonner Bridge, with the understanding that VDOT will be reimbursed for its services; and

WHEREAS, under the terms of a proposed Memorandum of Understanding (MOU), VDOT will, with NCDOT oversight ensuring compliance with North Carolina statutes, provide a 3-dimensional computer-generated survey of the inlet floor adjacent to the Bonner Bridge, along with a valid 3-dimensional model; and

WHEREAS, section 33.1-12 (10) of the *Code of Virginia* authorizes the Commonwealth Transportation Board to enter into contracts with other states necessary for the proper coordination of the location, construction, maintenance, improvement and operation of transportation systems;

NOW THEREFORE BE IT RESOLVED, that the Commonwealth Transportation Board, pursuant to its authority set forth in section 33.1-12 (10) of the *Code of Virginia*, and subject to the conditions set forth above, hereby authorizes the Commissioner of Highways, or his designee, to execute a Memorandum of Understanding between VDOT and NCDOT and any and all other documents necessary to provide the deliverables described above, so that NCDOT can implement a more permanent scour protection monitoring program at the Bonner Bridge.

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