

R-2576 Mid-Currituck Bridge

Attachment 5:

# **R-2576 - Temporary Barge Mooring, June 2, 2021**

## **R-2576 – Temporary Barge Mooring**

The construction basis for this permit application is a potential bridge erection approach for the project based on the current design plans and site conditions. Should this approach be modified by the project construction contractor, a modification of the permit application will be discussed with the permitting agencies.

The construction of the bridge over Currituck Sound is planned to be accomplished using a combination of temporary construction trestles and in-water barges. Construction trestles would be used on both the west and east shores of Currituck Sound where the water depths are shallow and have the potential for submerged aquatic vegetation. Barges would be used in the middle areas of the sound where the water is deeper. There would be two trestles on the west side of Currituck Sound – one for construction of the bridge and one for delivery of materials to barges. There would also be two trestles on the east side – both construction trestles along each side of the bridge. Barges would be used for bridge construction between the trestles on the west and east sides of Currituck Sound.

Multiple barges with cranes would be at work simultaneously in Currituck Sound. These crane barges would be used for various bridge-building activities including pile driving, pier cap placement, beam setting, and deck laying. Additionally, there would be multiple construction operations using barges with cranes at work in different locations in Currituck Sound at the same time – west side, east side, in the middle, and perhaps more. Each of these barges with cranes will use spuds to stabilize the barges during construction activities.

Supply barges will be used to carry materials from the west material supply trestle to the various construction operations in Currituck Sound. These barges will generally be mobile during periods of work in Currituck Sound. When moored, these supply barges will either tie to the crane barges or may use spuds for stability. Some of these barges may be tied to the west material supply trestle or may use spuds at the trestle. Workers will be delivered to the various moored barges out in Currituck Sound by either boat or a supply barge. No barges are anticipated to be moored at the trestles on the east side of Currituck Sound.