

Appendix A: Activity Specific Information

I. Dredging and Disposal of Dredged Material

A. Dredging

Dredging requirements include both maintenance dredging and new dredging. **Attachment I, CA17**, Dredging Operations, provides a work description and dredging plans. Dredging activities are included in CA 2, Duct Bank Installation; CA 4, Vessel Dock Relocation; CA 5 Marine Staging Yard; CA 12, Existing Submarine Cable Removal; and CA 14 Pier Removal. Additional earthwork activities are shown in CA 14, Pier Removal. **Drawing SUM-2** provides project summaries of dredging and excavation volumes.

Maintenance Dredging. As shown in Figure 1, an October 2016 bathymetric survey of the Norwalk River at the bridge site, maintenance dredging to meet the federal channel depth of ten feet will be required at the locations of the existing bridge substructure, including the swing span's pivot pier and rest piers and the protective fenders. Following the removal of the pivot pier fender system, those portions of the Norwalk River that are not currently maintained as part of the 170-foot federal navigation channel (the pivot pier and immediately north and south of the pivot pier) will be dredged to match the federal channel depth and tie into the existing 125-foot navigation channel that exists upstream of the bridge. The maintenance dredging will increase the effective width of the navigation channel and improve the alignment through the proposed Walk Bridge to and from the Stroffolino Bridge.

The extent of work for maintenance dredging at the bridge is defined by the need to achieve the authorized dredge depth in the channel at the bridge location. The extent of the work area is shown in **Attachment I, CA17** (Drawings CA17-2, CA17-3, CA17-6). Over-dredging by as much as one-foot below the authorized dredging elevation of -13.98 NAVD88 (to Elevation -14.98 NAVD88) is allowable. The side slopes of the channel are required to be at a maximum of a 3:1 slope. Following the dredging operation, a post-dredging hydrographic survey will be conducted to confirm that the dredging has been completed in conformance with the allowable and permitted project footprint and depth. Prior to work start, the work area will be enclosed by a turbidity curtain.

New Dredging. New dredging beyond that required for maintenance dredging will be required in Sites 1, 2 and 3, consisting of: excavation for the duct bank installation (Attachment I - CA2), excavation associated with removal of the existing submarine cables (Attachment I- CA 12), and excavation associated with removal of Piers 2 and 3 (Attachment I - CA 14). New dredging will be required in two other areas: in the area of the proposed Maritime Aquarium and Sheffield Island Ferry vessel dock relocations (Attachment I - CA3, CA17-4, CA17-7) and at the Marine Staging Yard (Attachment I - CA 4, CA17-5, CA17-7).

The new temporary docking facilities for the vessels, approximately 100 feet south of their existing location, will require dredging to provide sufficient depth for docking. The extent of dredging is defined by the need to provide sufficient water depth consistent with conditions at existing dock locations for maintaining vessel operations during construction. Dredging will be performed to the authorized dredge depth of -8.0 ft. (NAVD88) to the limits and footprint shown in CA17. Prior to work start, the work area will be enclosed

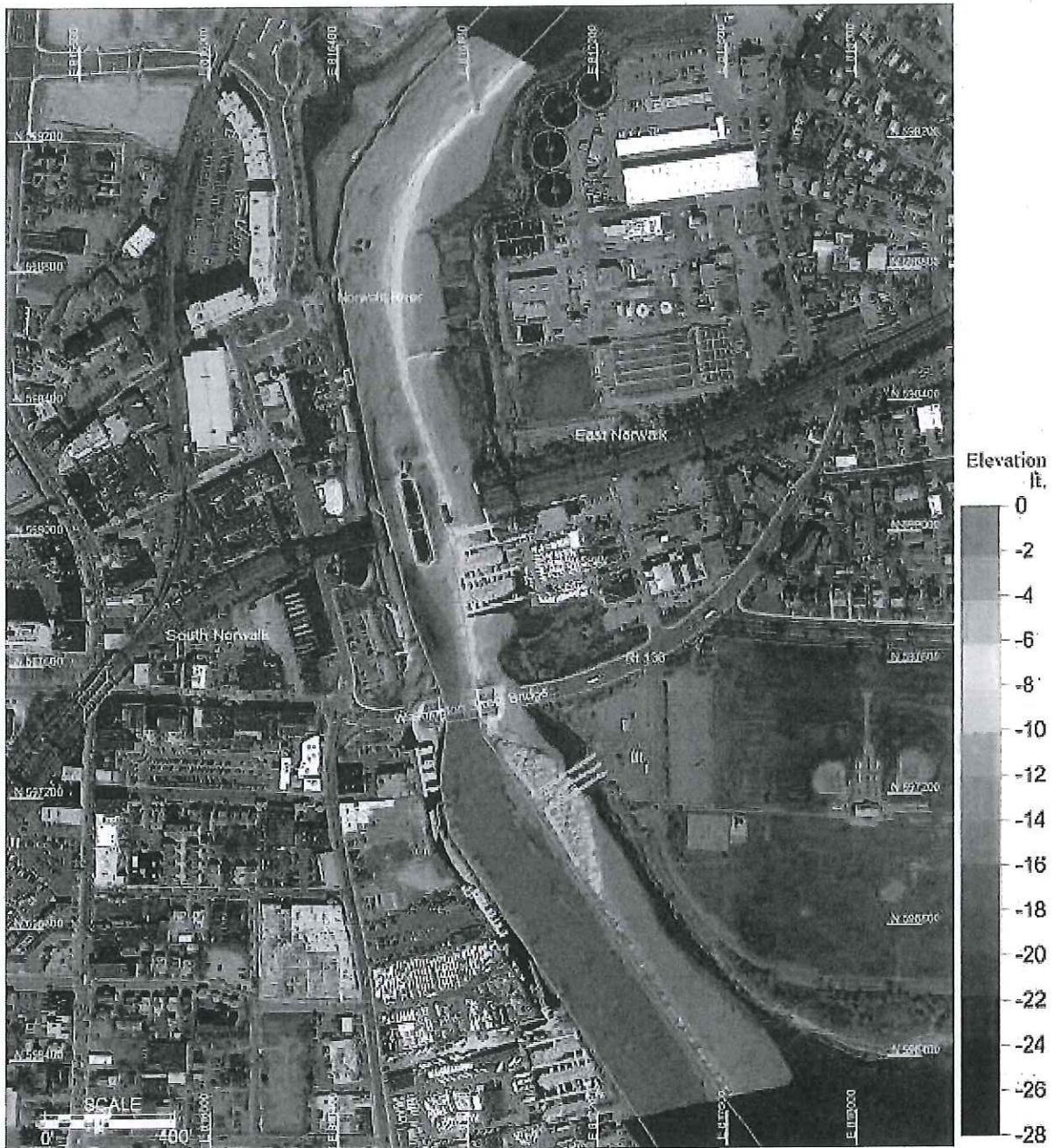


Figure 1 – Bathymetric Survey of the Norwalk River at Walk Bridge, October 19-20, 2016

by a turbidity curtain. Dredging conducted between December 1st and January 31st will be conducted within a turbidity curtain. If necessary to dredge from February 1st through November 30th, dredging will be conducted within a marine enclosure enclosed by a turbidity curtain.