

CHANCE[®]

A CASE HISTORY

WALKWAY ANCHORING REPORT

INSTANT FOUNDATION[®] System



CHANCE[™]
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WALKWAY ANCHORING REPORT

Project:

Public Service Electric & Gas Estuary Enhancement Program
Commercial and Maurice River Townships, New Jersey

Structural Engineer:

Roy F. Weston, Inc. / Woodward - Clyde Consultants
West Chester, Pa. / Blue Bell, Pa.

General Contractor:

Geo-Con, Inc.
Blackwood, NJ

Walkway Contractor:

D'Angelo Brothers, Inc.
Philadelphia, Pa.

Job Description:

This project included the restoration of over 1400 acres of swamp and salt hay farms to tidal wetlands adjacent to the Maurice and Delaware Rivers in southern New Jersey.

To highlight the estuary enhancement project, PSE&G incorporated walking trails along earth berms and walkways with observation platforms extending into tidal areas for public access.

The Chance INSTANT FOUNDATION[®] System was selected by the engineers for foundations for the walkway and observation platform structures. The selection was based on the following criteria:

- 1) Chance hot-dip galvanized foundation anchors would not pollute the sensitive estuary environment.
- 2) The anchors screw into the ground quickly with only minimal disturbance to underlying soils and the surrounding area.
- 3) The method had been proved cost effective and durable nationally on other walkway projects.

Walkway Construction:

The public access areas included three walkways with observation platforms attached, and one observation platform with a connecting bridge. All the walkways are 6 feet wide in lengths of





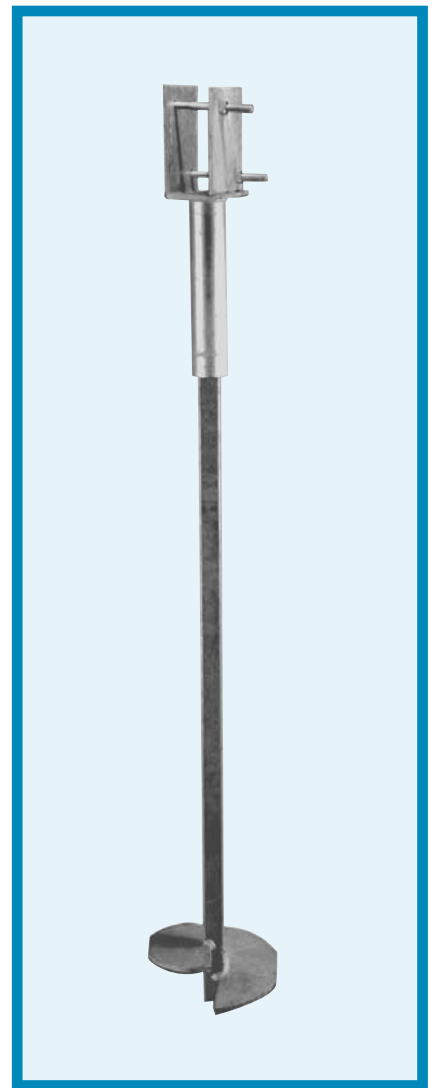
110, 650 and 750 feet.

Installation of the 870 Chance SS175 foundation anchors to depths of 25 feet was achieved with a 10,000 ft.-lb. hydraulic motor mounted on a crawler excavator. Installation rates for the vertical foundations and batter anchors for 10 to 15 kip compression and tension loads ranged from 30 to 40 anchors per day.

Where walkway heights exceeded 8 feet, Chance foundation anchors were used to support concrete pile caps at ground level. 8 in. x 8 in. timbers



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were mounted to these pile caps as vertical members for walkway construction in lieu of the typical foundation anchor-shaft/walkway-bracket detail.

Outcome:

The timetable to construct the 11,000 square feet of walkway and observation platform engaged one crew to install anchors and a second crew to build the walkway. D'Angelo Brothers, Inc. completed this project in 68 working days to meet all project schedules.

