Hereford Inlet to Cape May Inlet

Draft Feasibility Report and Integrated Environmental Assessment

Public Hearing

NJDEP-Bureau of Coastal Engineering - Chris Constantino, Project Manager

U.S. Army Corps of Engineers, Philadelphia District Coastal Planning Section – Brian Bogle, Project

The State of New Jersey's Shore Protection Program

State of New Jersey
Chris Christie, Governor

Dept. of Environmental Protection
Bob Martin, Commissioner

Natural & Historic Resources
Rich Boornazian, Assistant Commissioner

Office of Engineering & Construction
David Rosenblatt, Administrator

Bureau of Coastal Engineering
William Dixon, Acting Manager

U.S. Army Corps of Engineers
Philadelphia District

Philadelphia District Colonel
LTC Chris Becking, District Commander

Planning Division Chief
Peter Blum

Project Development Chief
Erik Rourke

Coastal Planning Chief
Jeff Gebert

Bureau of Coastal Engineering Purpose….

To administer beach nourishment, shore protection and navigational dredging projects throughout the State to:

…Provide for protection of life and property along the coast
…Preserve our State's vital coastal resources
…Maintain safe and navigable waterways

Shore Protection Fund is Dedicated…

“To protect existing development and infrastructure from storm surges, sea-level rise, and shoreline migration, through dune creation and maintenance, beach nourishment projects and construction and repair of shore protection structures.”

$25 million dedicated annually
Realty Transfer Tax (N.J.S.A. C. 13:19-16.1)

Report Summary

-Presents a hurricane and storm damage reduction plan for North Wildwood, Wildwood, Wildwood Crest and Lower Township

-Engineering, economic, social, and environmental analyses described

-Evaluated cultural and environmental resources impacts -

- -National Environmental Policy Act (NEPA)
- -Section 106 of the National Historic Preservation Act

Selected Plan

-Back passing sand from the beach in Wildwood, Wildwood Crest and Lower Township.

-Utilizing the sand to develop an engineered dune and beach berm in North Wildwood, and an engineered dune in Wildwood, Wildwood Crest and Lower Township for the purposes of hurricane and storm damage reduction **

Project Milestone Dates

-New Jersey Shore Protection Study Authorized – 12/17/1987

-Study the changing coastal processes along the coast of New Jersey

-Report of Limited Reconnaissance - 09/1990

-Reconnaissance Study Completed - 2001

-Feasibility Cost Sharing Agreement (FCSA) – 09/30/2002

-PL-113-2 ("Sandy Supplemental Bill") – 01/2013

-Draft Feasibility Report – 12/20/2013

Estimated Project Costs

-Initial Construction – $21,860,000

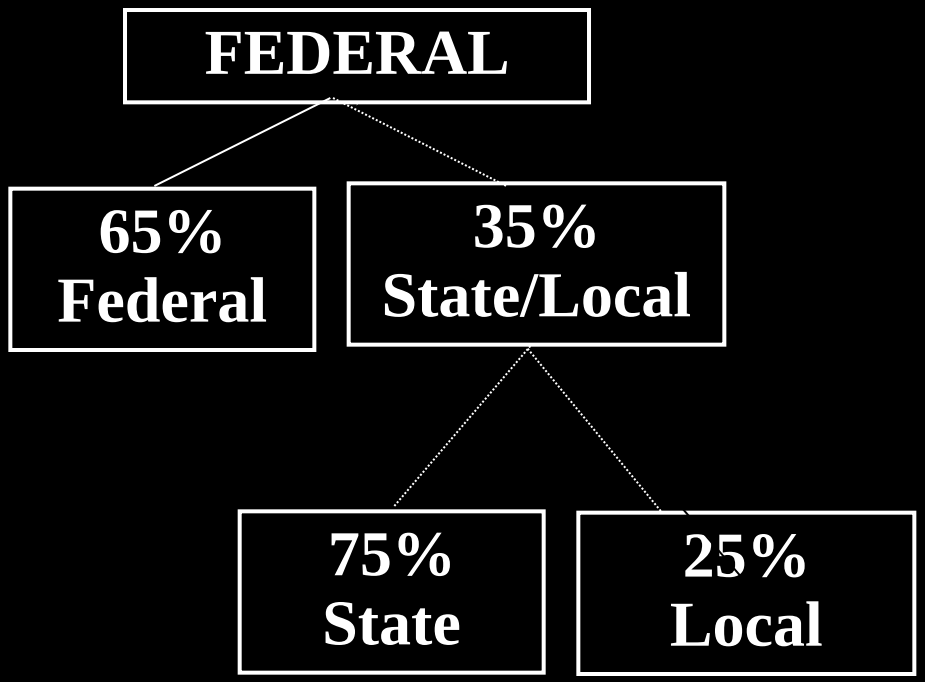
-Costs shared

-Renourishment Costs - $58,749,881 (over 50 years)

-Costs shared

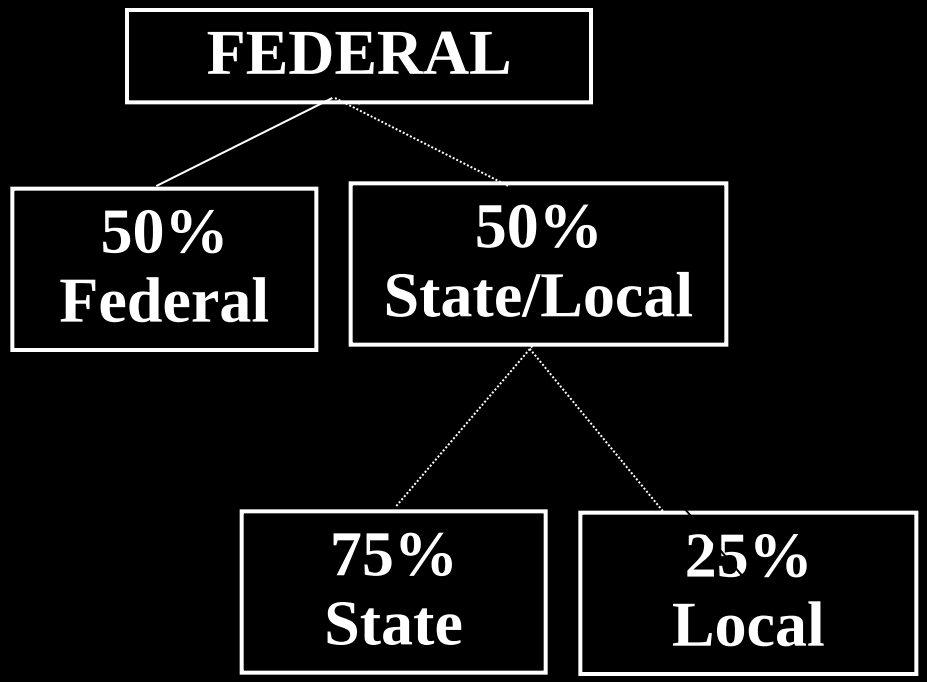
Initial Cost Share Breakdown

Shore Protection Projects



Renourishment Cost Share Breakdown

Shore Protection Projects



Project Plan Parameters

-Berm Elevation – 6.5 feet NAVD88

-Berm Width – 75 feet (dune toe to edge of beach)

-Seaward Berm Slope – 1:30

-Dune Elevation – 16 feet NAVD88

-Dune Crest Width – 25 feet

-Dune Side Slopes – 1:5

-Dune offset – varies (20 to 30 feet)

Project Plan Parameters

-Project Length – 25,000 feet

-Initial Quantity – 1,362,000 cubic yards

-Periodic Nourishment – 305,000 cubic yards

-Major Replacement Quantity – 153,000 cubic yards

-Dune Crest Width – 25 feet

-Dune Side Slopes – 1:5

-Dune offset – varies (20 to 30 feet)

Other Important Features

-Tapers – At ends of dune and beach features

-Borrow Source – seaward beach sections and intertidal area

-Dune Grasses – 64 acres

-Sand Fence – Dune toe and on crossovers

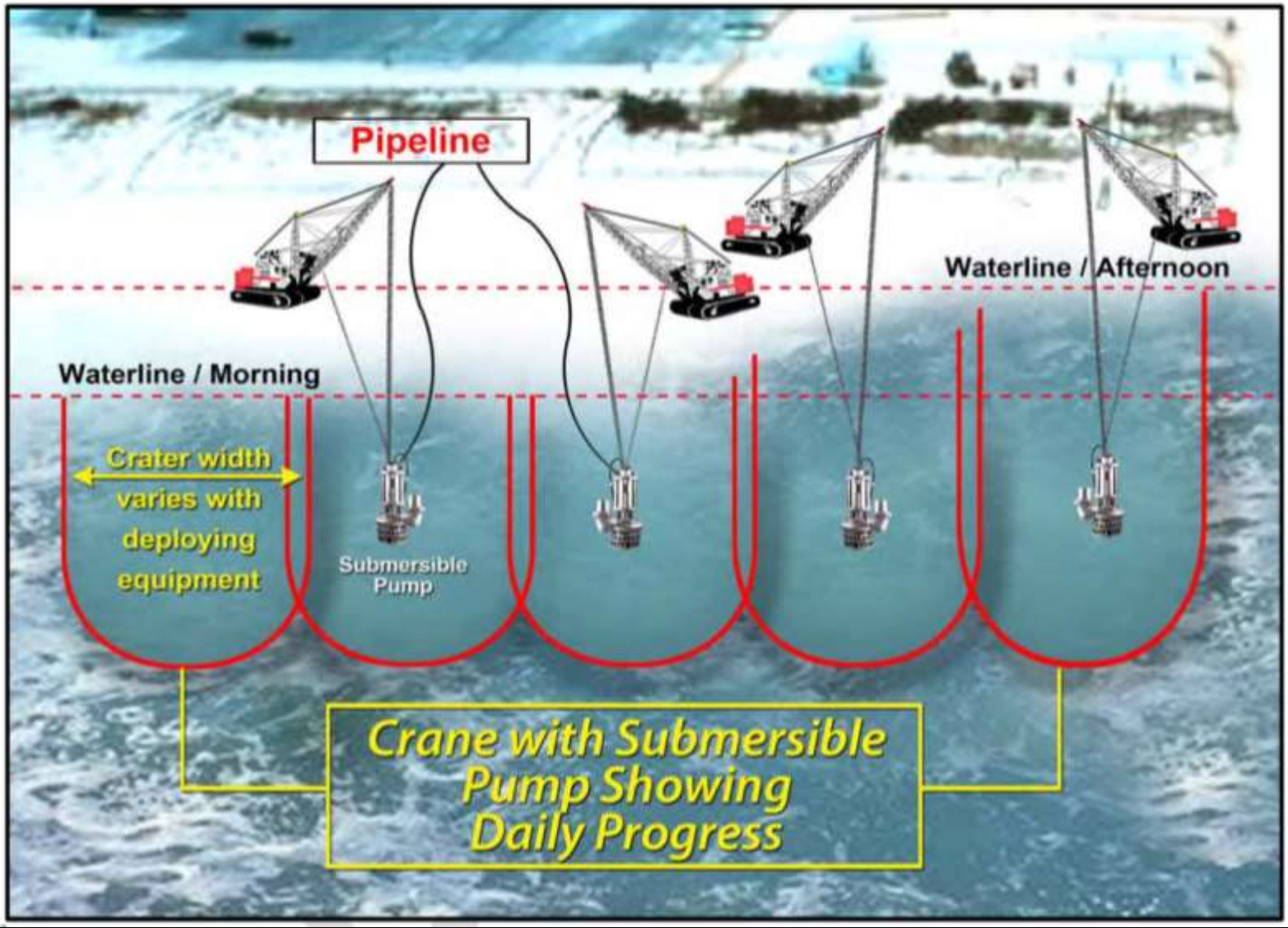
-ADA Crossovers – approximately 13

-Pedestrian Crossovers – approximately 51

-Vehicular Crossovers – approximately 13

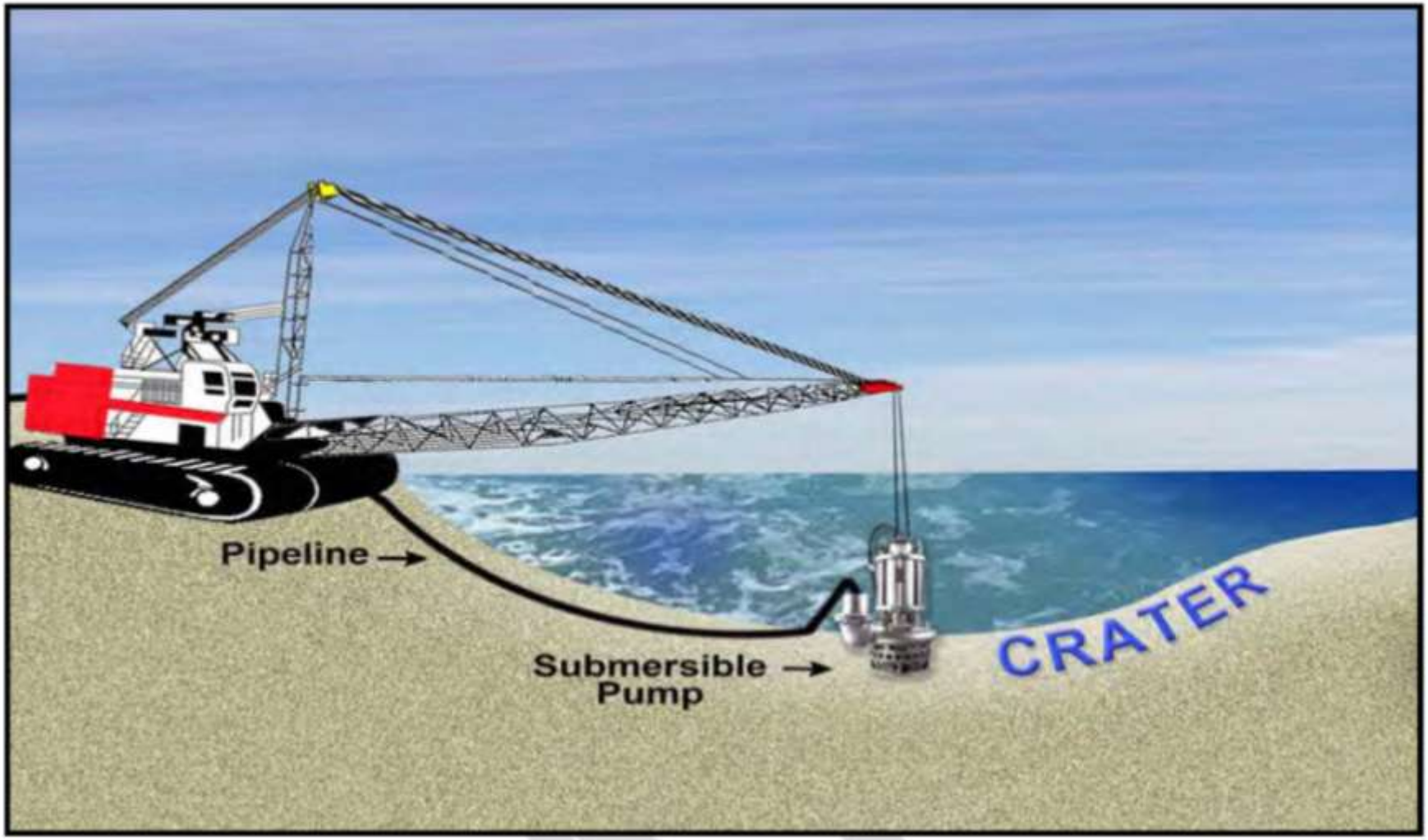
US Army Corps of Engineers ®

How will it be constructed?



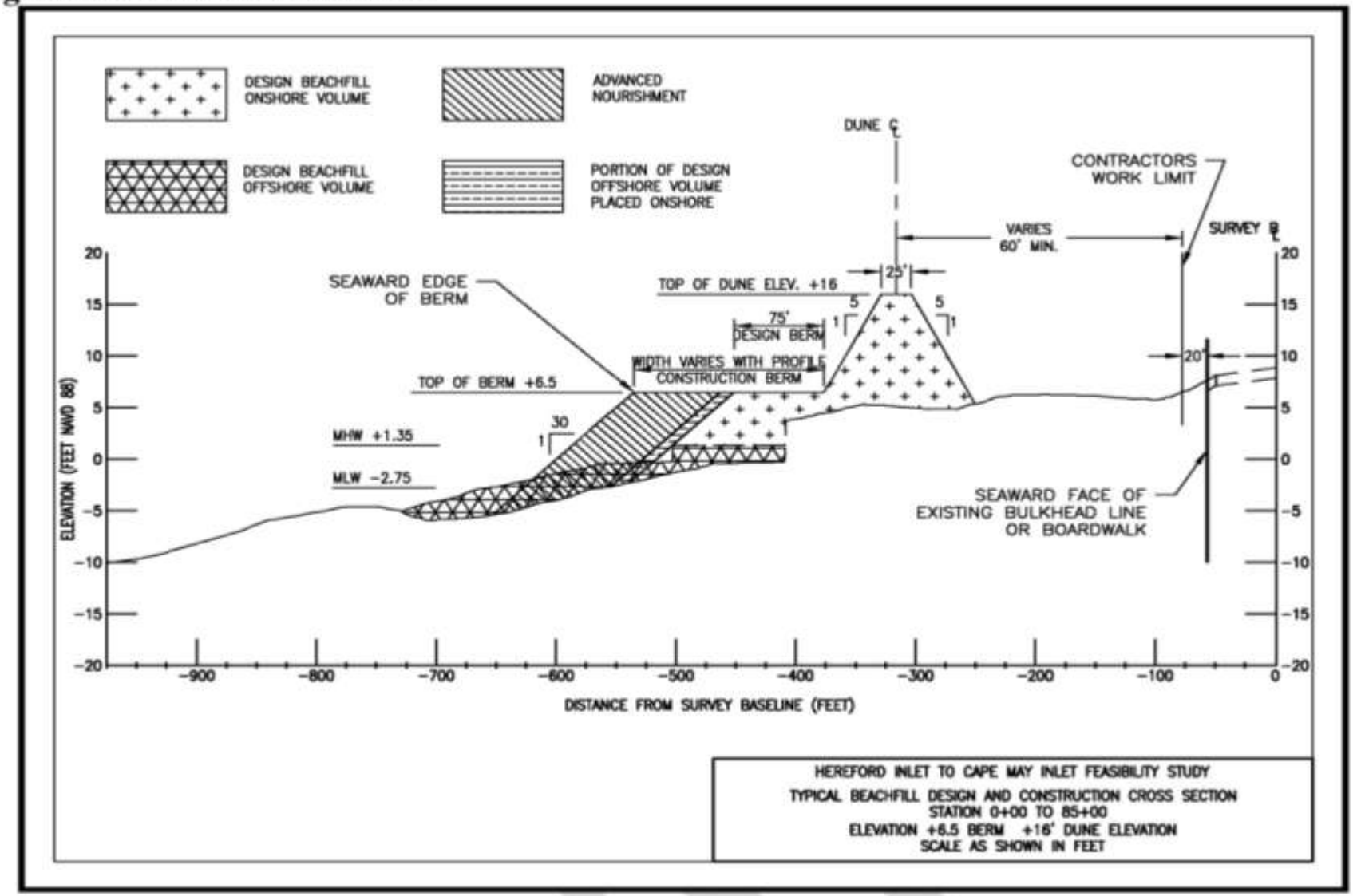
US Army Corps of Engineers ®

How will it be constructed?



Typical Cross Section
North Wildwood

Figure ES-2 North Wildwood



Typical Cross Section
Wildwood, Wildwood Crest and Lower Township

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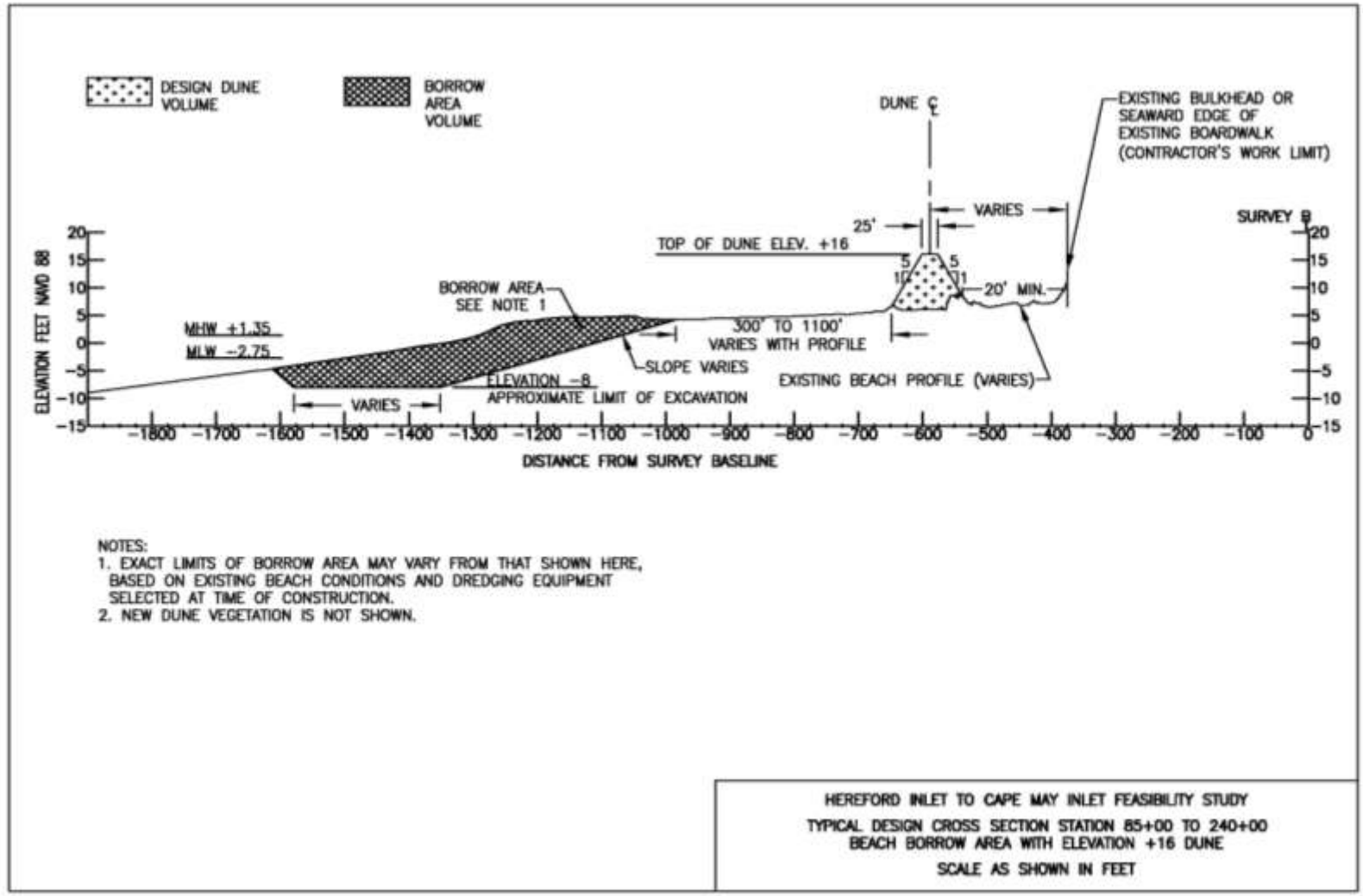
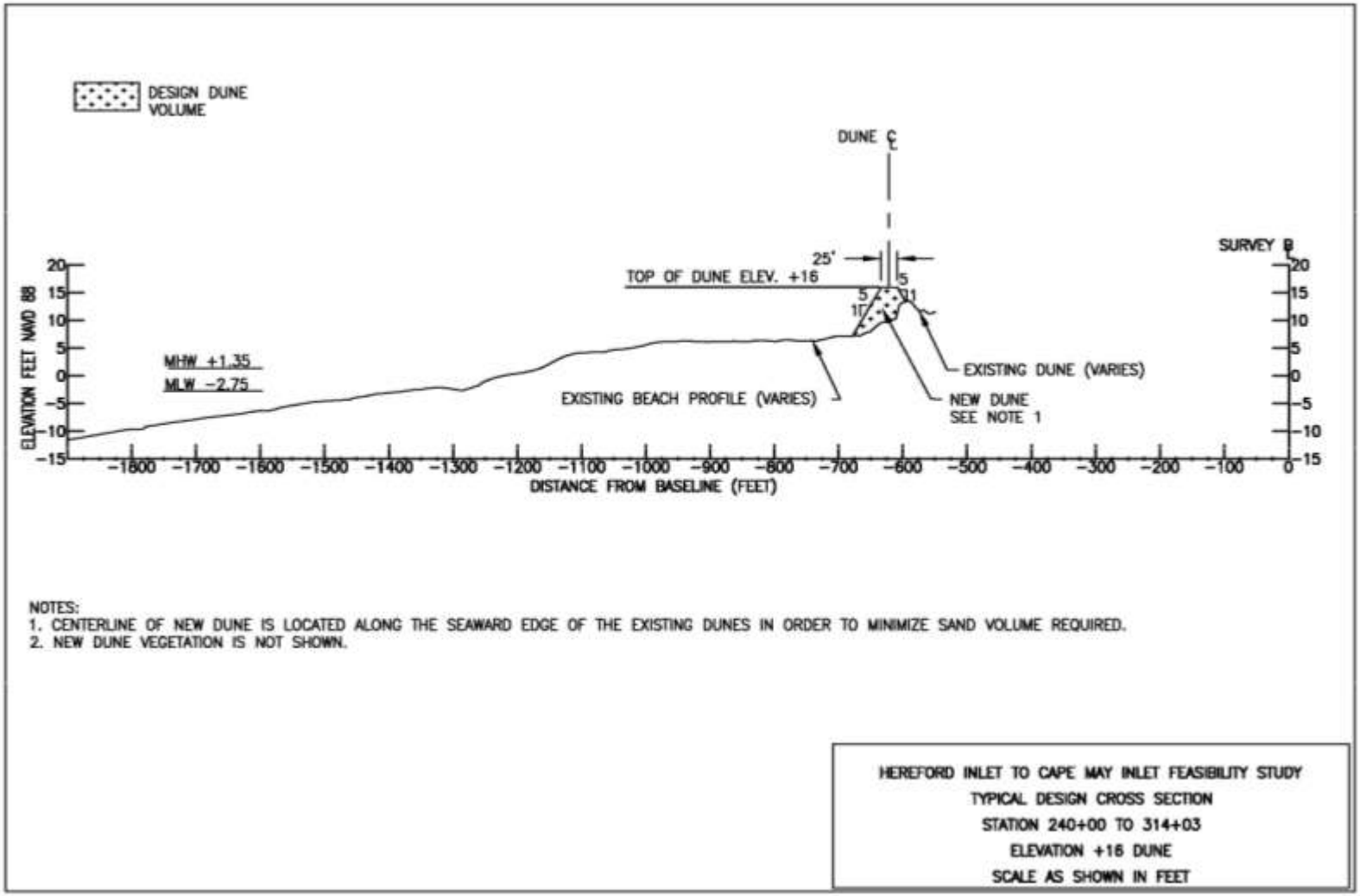
Figure ES-3 Wildwood and Wildwood Crest



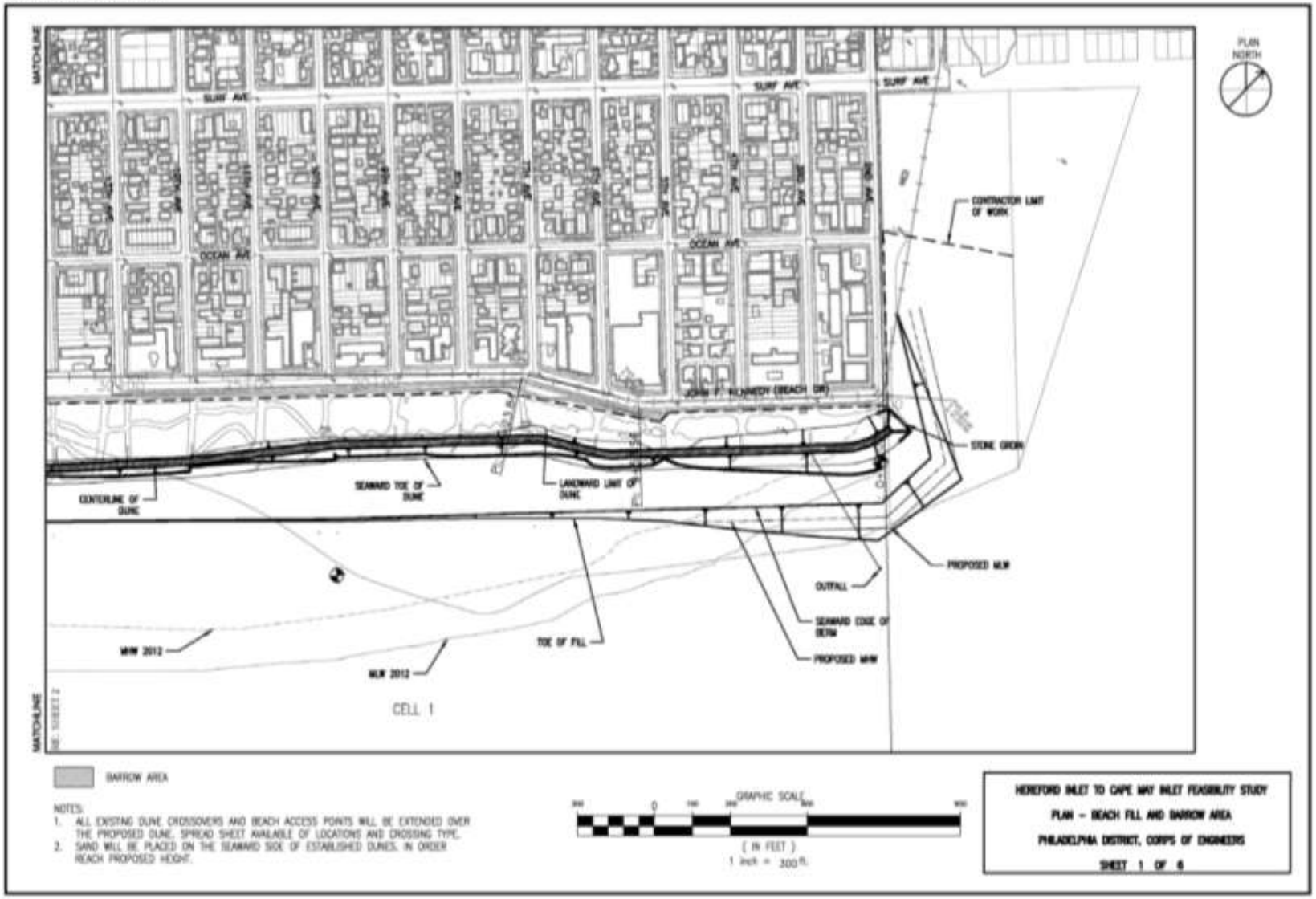
Typical Cross Section
Lower Township

Figure ES-4 Lower Township, Dune Only.



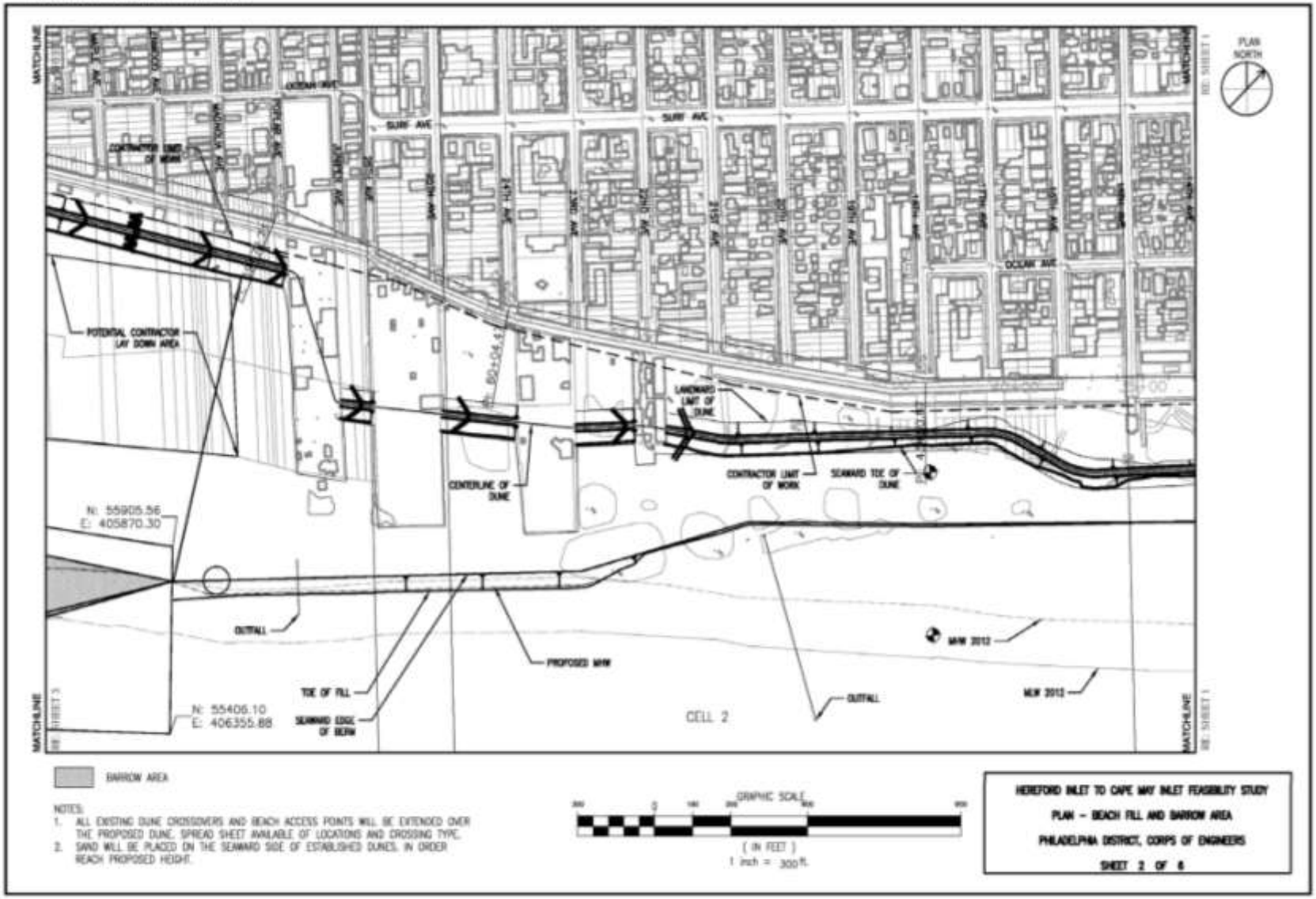
Plan View
North Wildwood

Figure 111 North Wildwood Plan View



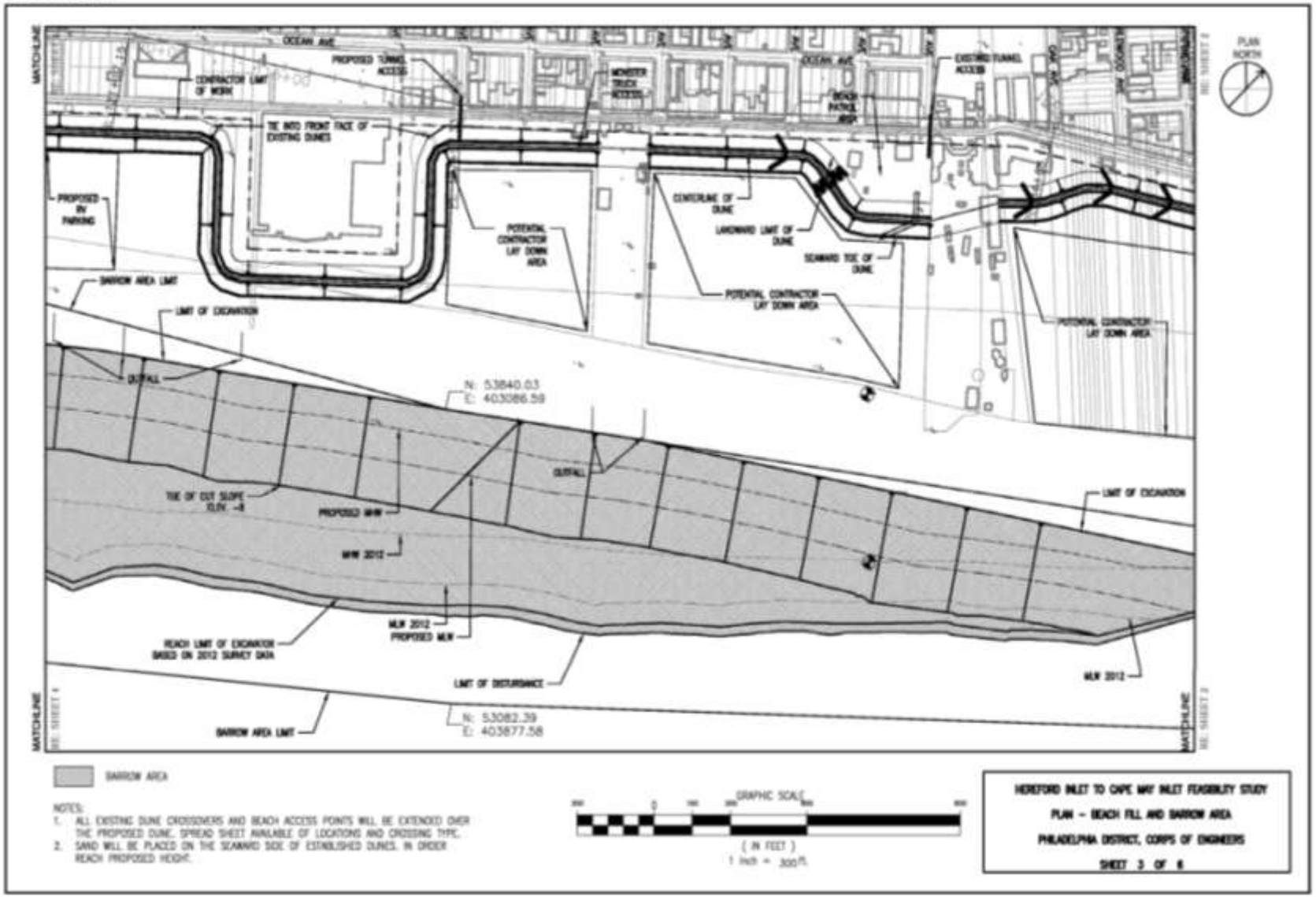
Plan View
North Wildwood/Wildwood

Figure 112 North Wildwood/Wildwood Plan View



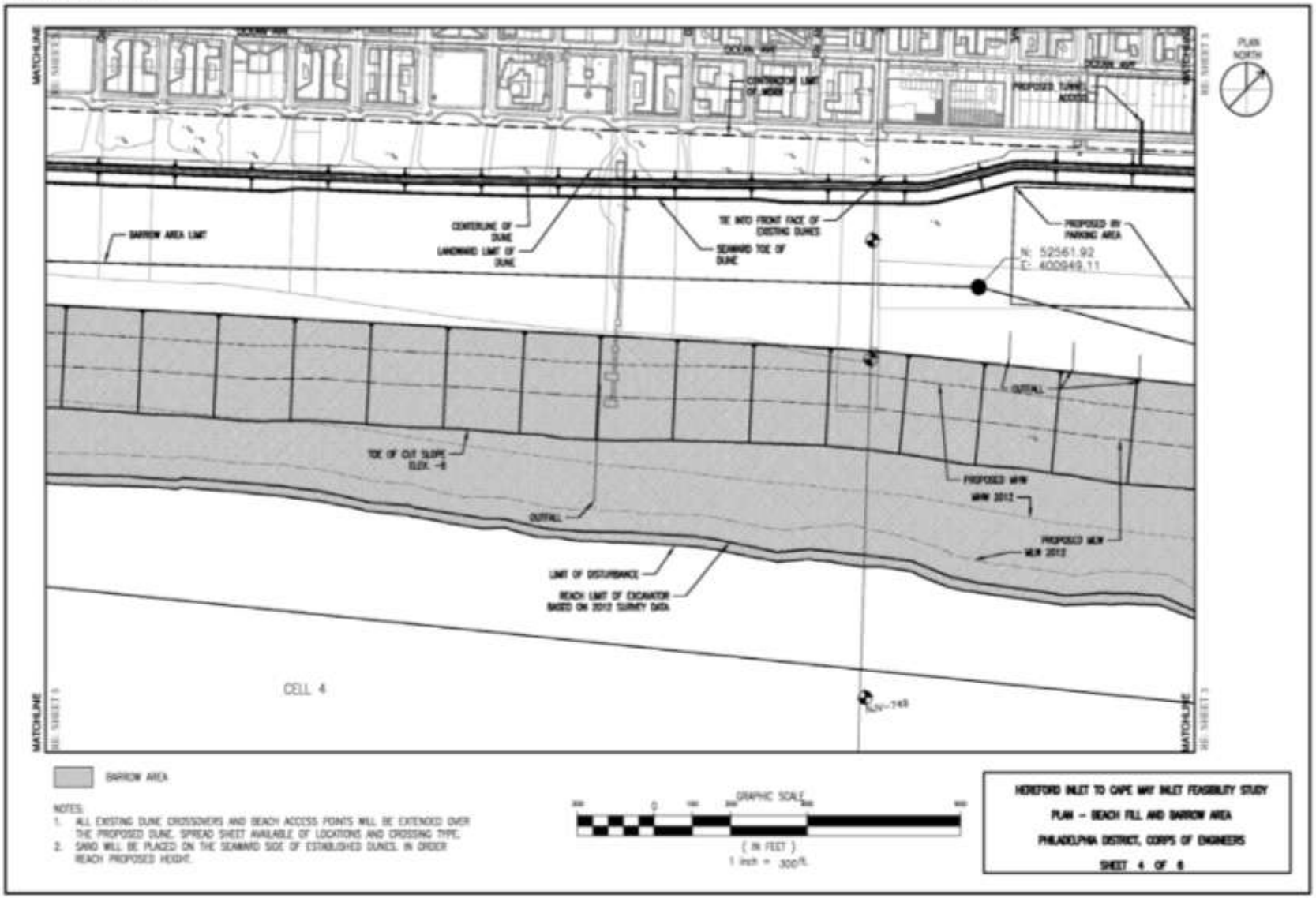
Plan View
Wildwood

Figure 113 Wildwood Plan View



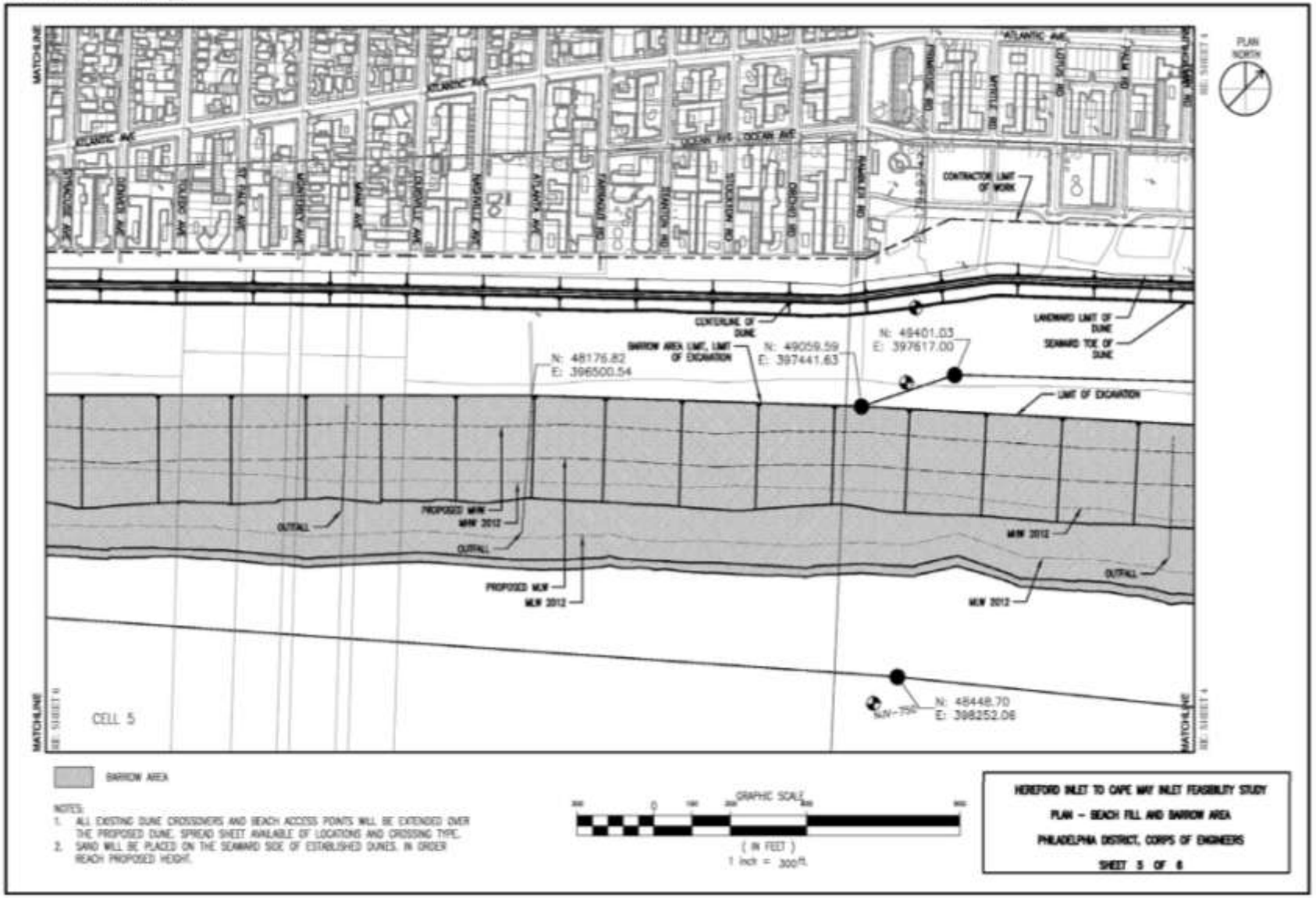
Plan View
Wildwood/Wildwood Crest

Figure 114 Wildwood Crest Plan View



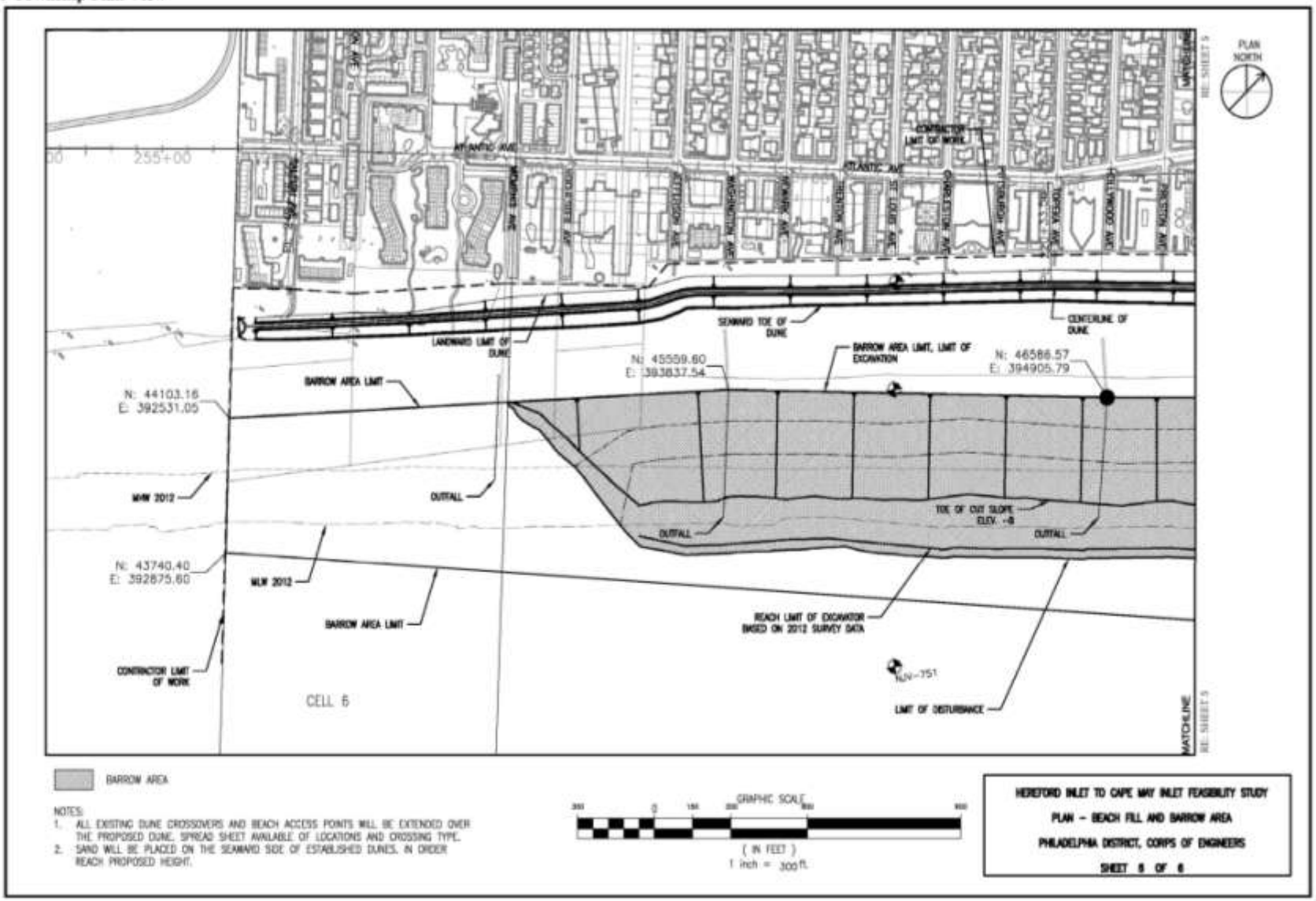
Plan View
Wildwood Crest

Figure 115 Wildwood Crest Plan View (2)



Plan View
Wildwood Crest/Lower Township

Figure 116 Lower Township Plan View



New Jersey Department of Environmental Protection

Shore Protection Program

http://www.nap.usace.army.mil/Portals/39/docs/Civil/Public%20Notice/Hereford_Volume_1_DraftReport.pdf

www.nj.gov/dep/shoreprotection

http://www.nap.usace.army.mil/Missions/CivilWorks.aspx

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