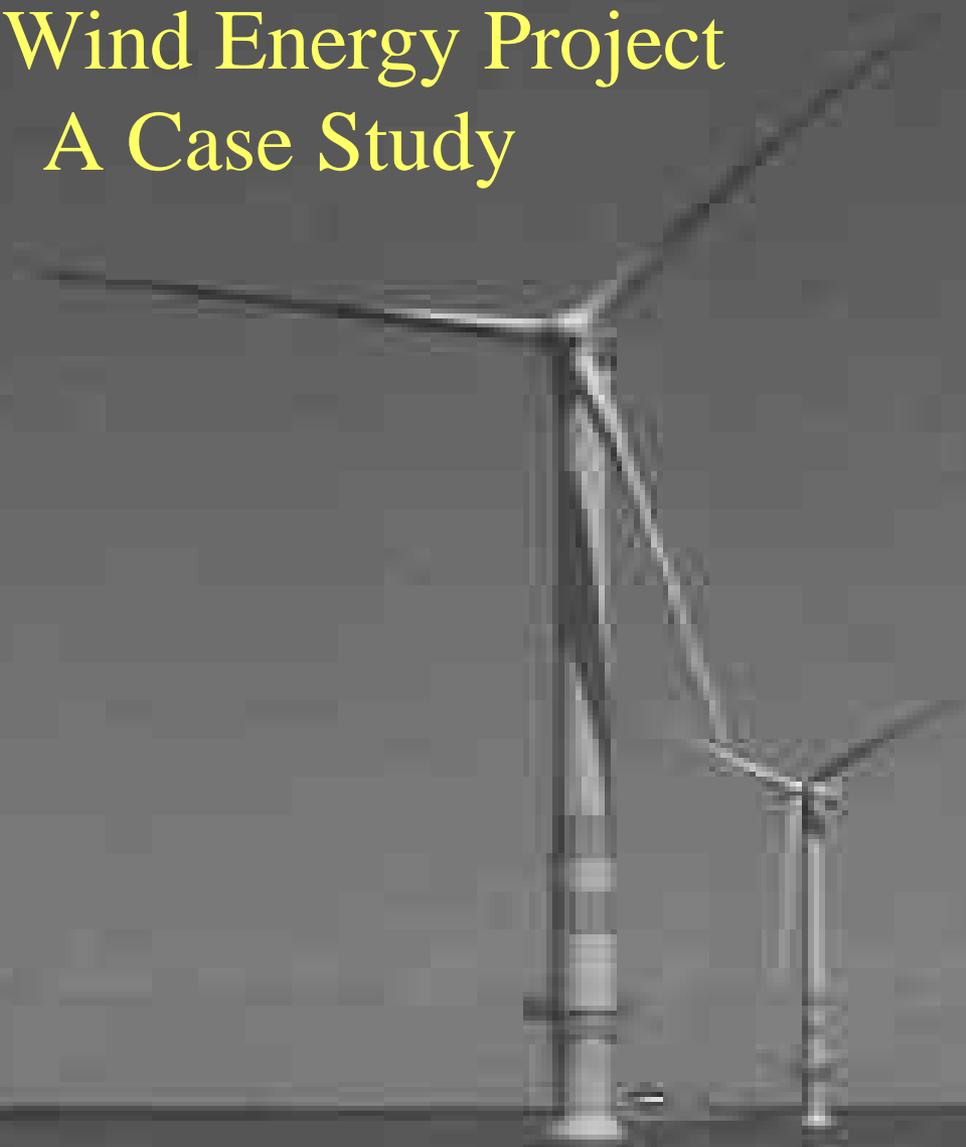


Cape Wind Energy Project A Case Study



John Weber and Alex Strycky
Massachusetts CZM Program

- Project Description

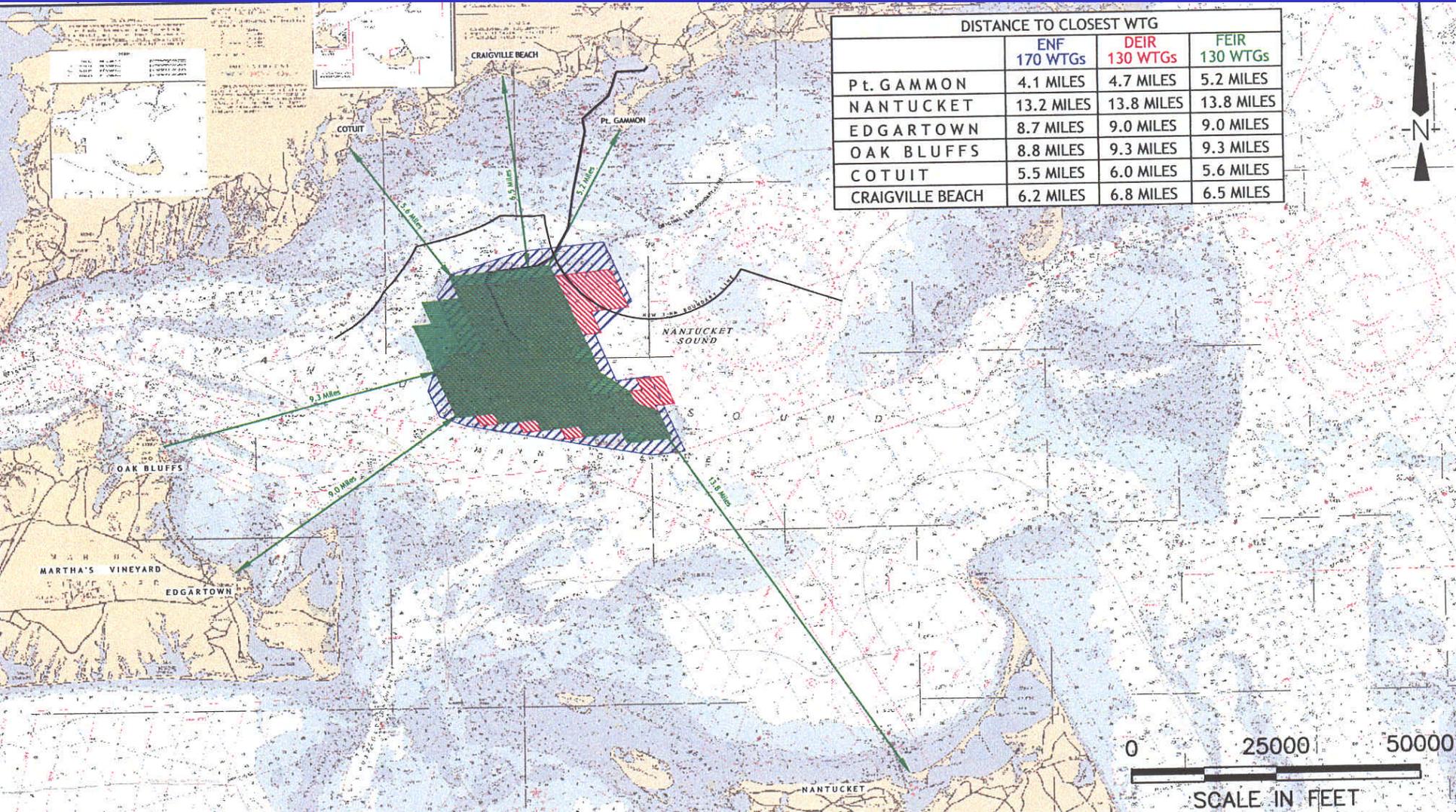
- Status of Regulatory Review

- Federal Consistency

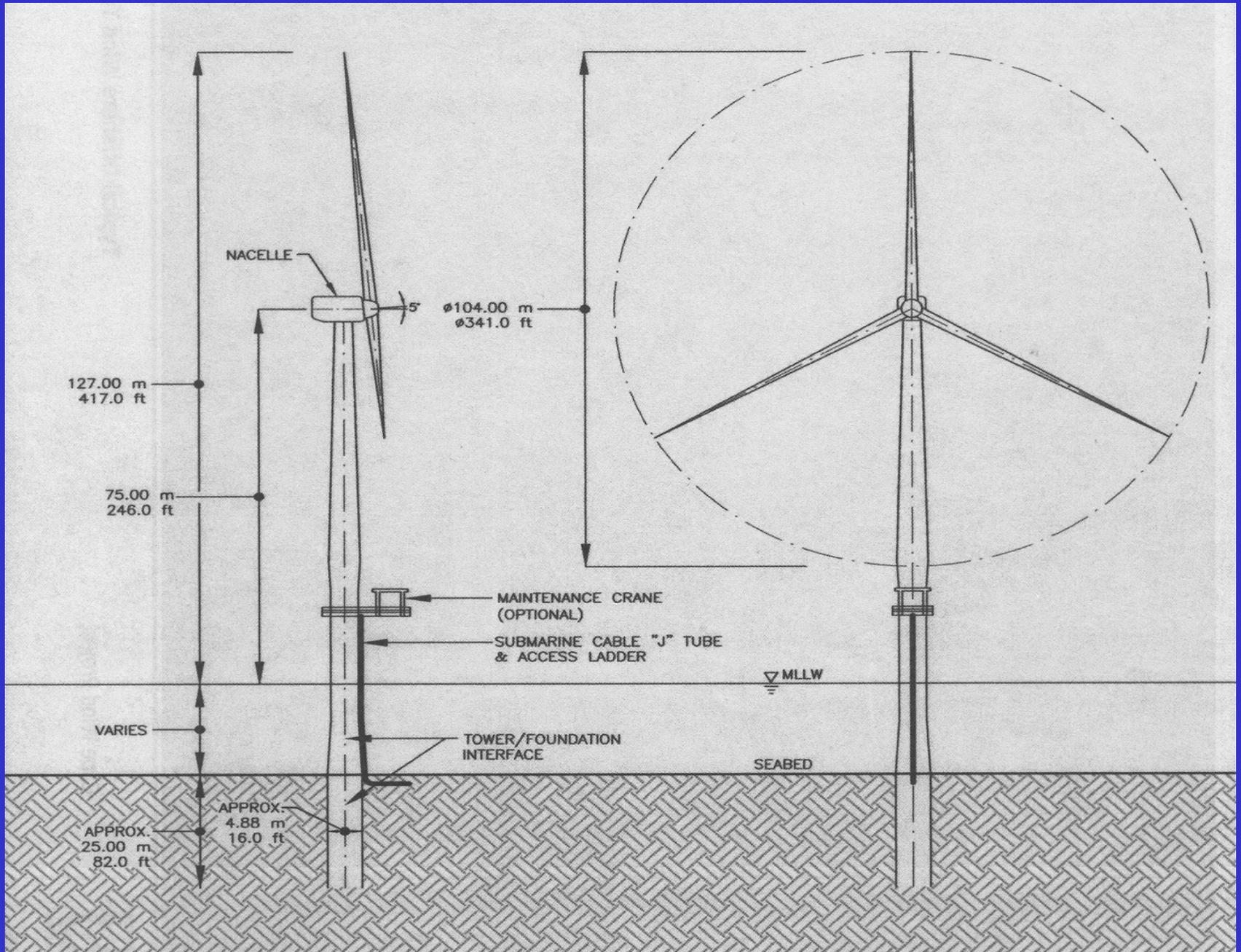
Project Description

- 130 Wind Turbine Generators (WTG)
- 454 Megawatts Total Generating Capacity
- WTG array covers approx. 24 sq. miles
- Inner-array cable network
- Approx. 12 mile long transmission cables to land

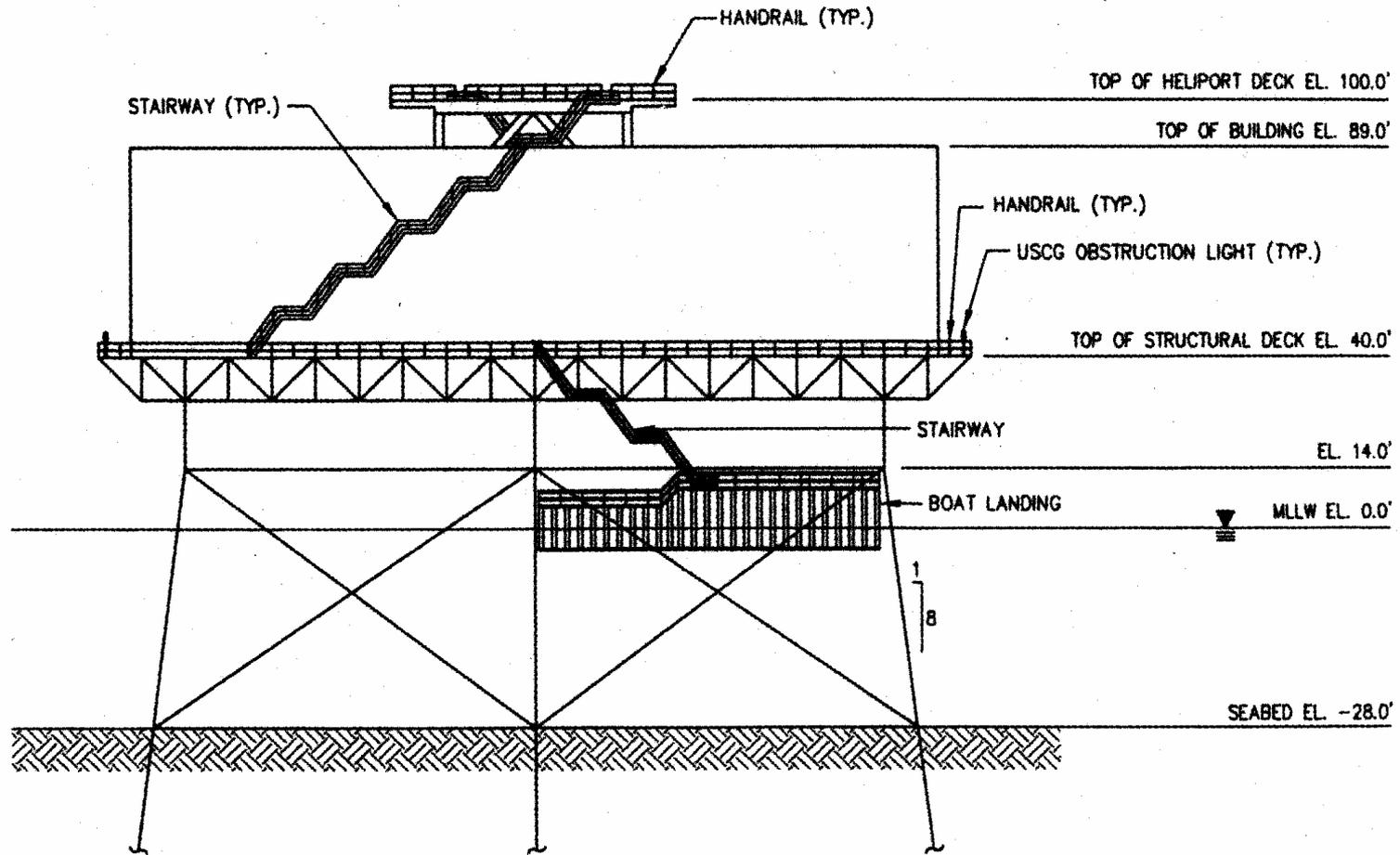
Site Locus



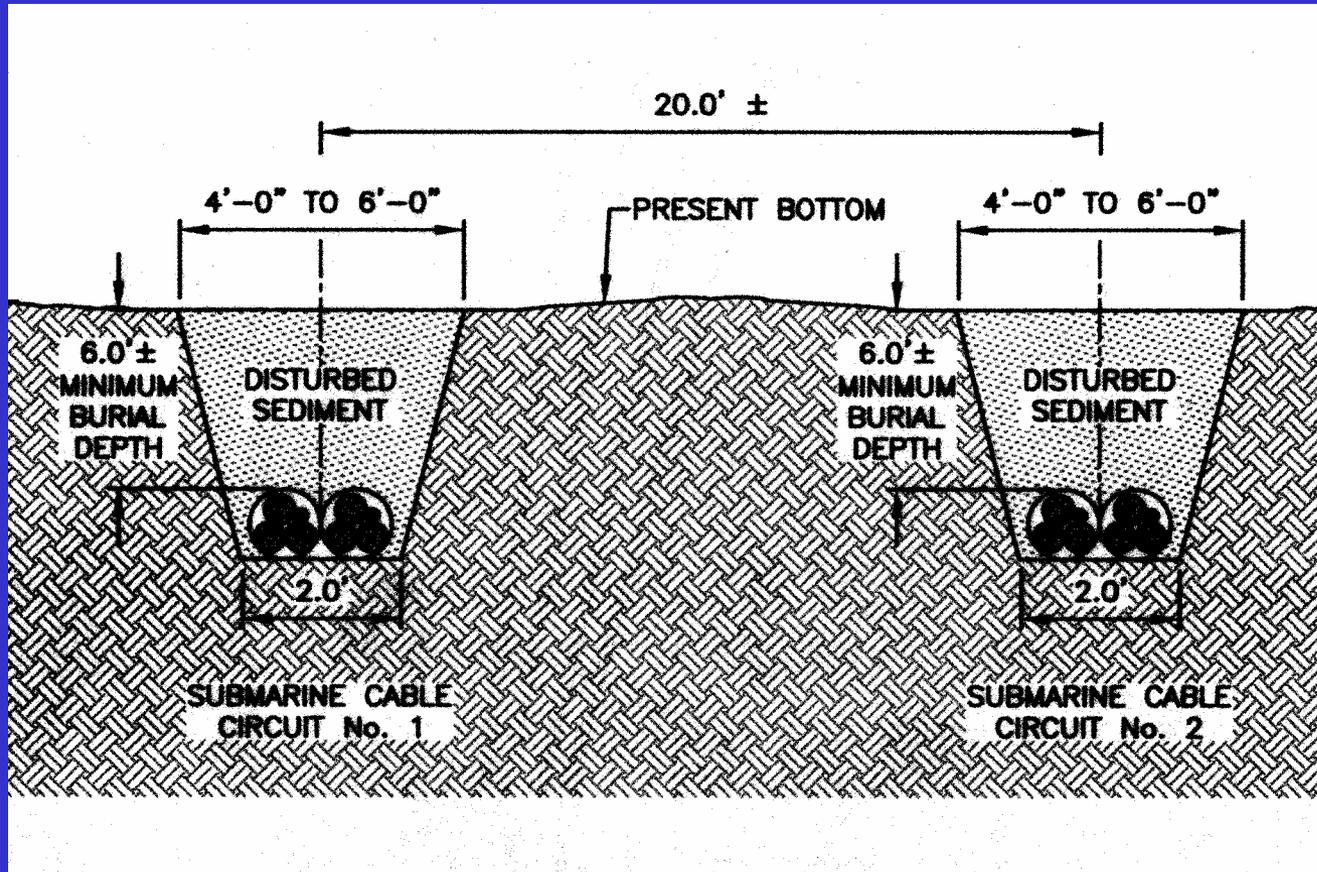
Wind Turbine Dimensions



Electrical Service Platform



Transmission Cable Trench Detail



Federal Review Process

- Draft EIS issued in November 2004 by
US Army Corps of Engineers
- Federal Energy Policy Act gave lead role to
Minerals Management Service
- MMS review process under development

Issues Identified in Public Review Process (a partial list)

- Visual Impacts
- Fisheries
- Habitat
- Sand movement
- Conflicting Uses
- “Industrialization” of Nantucket Sound
- Avian impacts
- Navigation impacts
- Economic benefits/detriments
- Effects on tourism
- Oil spills
- Location of state/federal boundary

Federal Consistency Review

- What are the effects on the coastal zone?
- Are these effects related to enforceable policies?

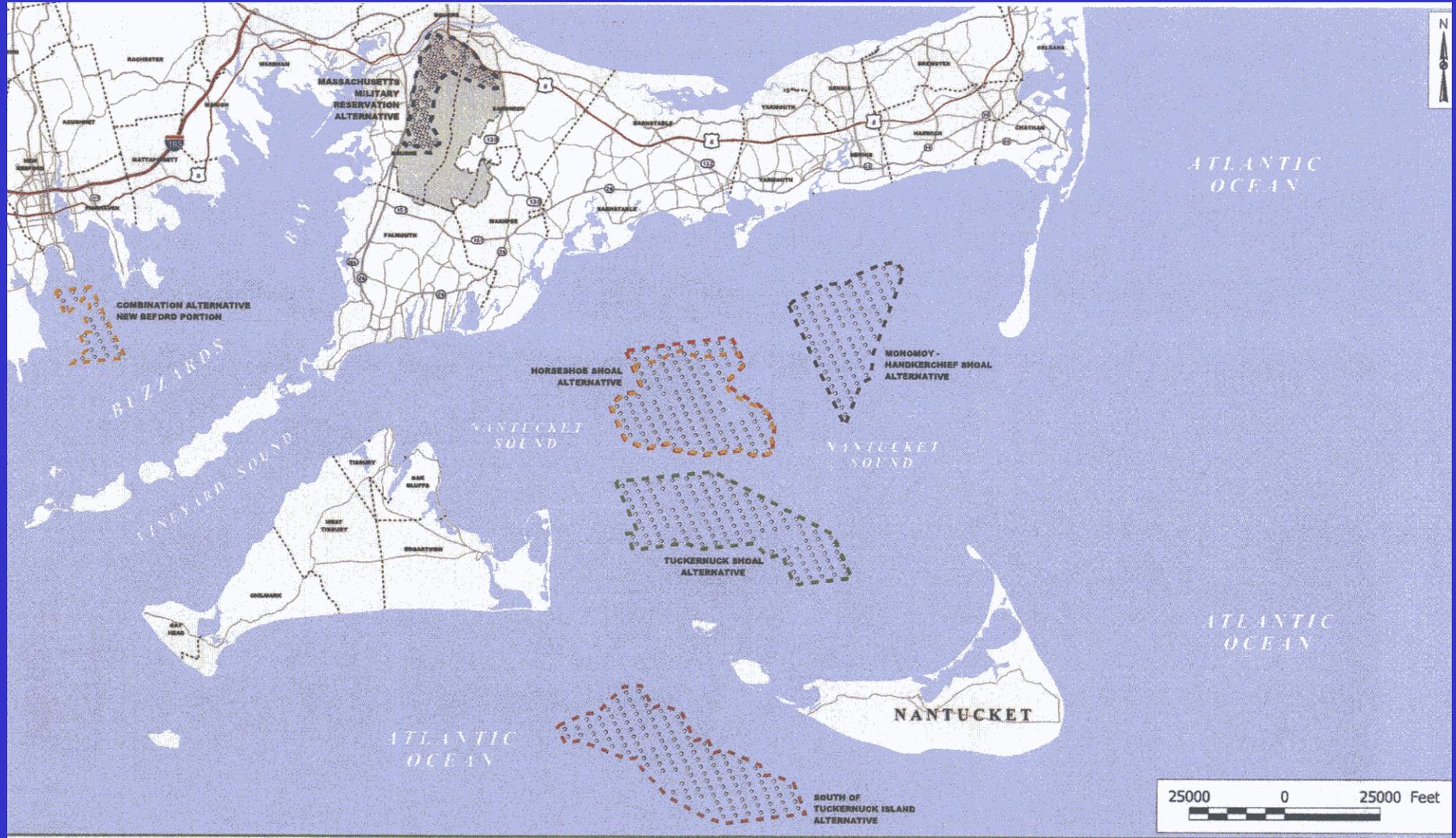
- Visual impacts
- Habitat / Fisheries impacts
- Sediment transport
- Alternatives Analysis



Direct Impacts to Seafloor

	State Waters	Federal Waters
WTG & ESP	0	480 acres 3.2 acres permanent
Inner-array cables	0	685 acres
Transmission cables	115 acres	100 acres

Analysis of Alternative Sites



Looking ahead...