

NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

MCON P099/099A, Pier 2:
MCON P355/355A, Pier 6:
MCON P226/226A, Pier 7:
MCON P094/094A, Pier 11:

Construction complete 9/01
Construction complete 6/02
Construction contract awarded 2/02
Construction award scheduled for 11/03



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

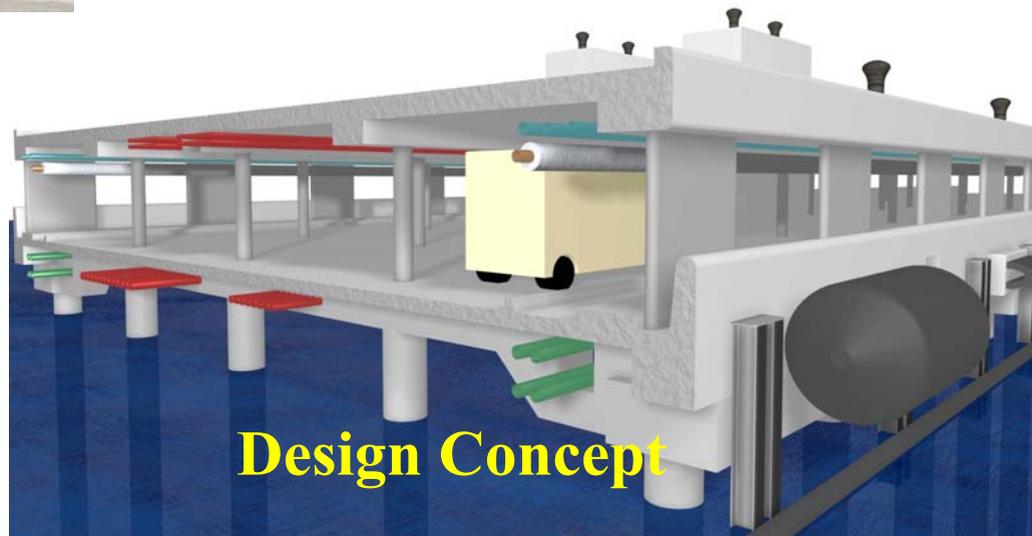
Scope: *General berthing pier (93 ft wide / 1500 to 1600 ft long) w/under deck utilidor, utilities, demolition existing piers, dredging, relieving platforms, and AT/FP support for selected Piers (i.e. Piers 7 and 11).*

Budget:

			Total	
<i>Pier 2 - MCON P099/099A:</i>	<i>FY00</i>	<i>\$40.00M</i>	<i>FY01 \$ 4.70M</i>	<i>\$ 44.7M</i>
<i>Pier 6 - MCON P355/355A:</i>	<i>FY99</i>	<i>\$32.03M</i>	<i>FY00 \$12.69M</i>	<i>\$ 44.7M</i>
<i>Pier 7 - MCON P226/226A:</i>	<i>FY02</i>	<i>\$27.91M</i>	<i>FY03 \$33.52M</i>	<i>\$ 61.4M</i>
<i>Pier 11 - MCON P094:</i>	<i>FY04</i>	<i>\$28.40M</i>	<i>FY05/06/07 \$118.17M</i>	<i>\$146.6M</i>



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

- **Functional Use and Improvements for:**
 - **Logistics, crew on upper deck**
 - **Utilities (covered maintenance area) on lower deck**
 - **Upper deck free of obstructions which facilitates operations**
 - **Provide better mooring for ships during heavy weather**
 - **Existing pier demolition will reduce future maint.&repair backlog**
 - **New piers will reduce maintenance and operational costs.**
 - **Piers 7 and 11 includes AT/FP watchtowers/dolphin platforms supporting waterfront floating barrier**
 - **Pier realignment provides additional waterfront space**
 - **Provide improvements to berthing spaces (w/nesting capability) and improvements to utility reliability/added service points**
 - **Shore side improvements (new & realigned parking, relieving platforms, covered guard shelters, utility recapitalization)**



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

- **Continued - Functional Use and Improvements for:**
 - **Living platform continuing to improve capability of ship service based on LANTDIV design experience and user input (each pier is more capable at far less operational cost for users)**
 - **All piers North of Pier 7 will support carrier use.**
 - **Training pier side to simulate underway operational drills in lieu of steaming (BFTT)**
 - **Increased pier side & shore side communications systems (analog data and voice)**
 - **Dredging to meet adequate depths for new & existing requirements**



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

Design Features:

- Pier 2, 6, and 7: Piers are 1,500 feet long and 93 feet wide
- Pier 11: Pier will be 1,600 feet long and 93 feet wide
- Lower deck is made of precast pieces to minimize “over the water” construction time.
- Upper deck is cast-in-place concrete.
- First deck is enclosed with a nine-foot ceiling to all trucks to service telephone lines, fiber optic/copper cables, BFTT connection, electrical service (w/festoon system Piers 7 & 11), fire protection, fuel, water, and sewage connections.
- Shore electric power: 9,600 Amps per berth plus backup power.
- Additional AT/FP lighting and expanded communications cabling system for waterside surveillance is provided for Piers 7 and 11.
- Second deck (Piers 2, 6, and 7) is 22 feet above water level and open for use of ship’s crews, visitors, and vehicles bringing supplies and equipment to the ships.
- Second deck level will be with, or slightly higher than, the main deck of most surface combatants, such as frigates, destroyers, and cruisers.
- Dredging support ships depth (40 ft Pier 2, 45 ft Pier 6, 40 ft Pier 7, and 50 ft Pier 11)
- Promote sustainable reuse of old concrete pier debris as fill material for future MCON projects



NEW DOUBLE DECK PIERS, NAVAL STATION, NORFOLK, VA

- Rebuilt Pier
- Repair & Upgrade
- Existing Pier
- # Old pier numbers
- # New pier numbers



Pier Re-numbering:

- New pier numbers, effective as of 15 Nov 01
- Small craft basin piers A-H will remain same.