DEPARTMENT OF CULTURAL RESOURCES

REPORT ON CAPITAL PROJECTS

MARCH 31, 2015

USS NORTH CAROLINA BATTLESHIP

COFFERDAM CONSTRUCTION & HULL REPAIRS PROJECT

NC MUSEUM OF HISTORY

ADVANCE PLANNING FOR EXPANSION & RENOVATION

NORTH CAROLINA DEPARTMENT OF CULTURAL RESOURCES

MARK COONEY, DIRECTOR
CAPITAL PROJECT UNIT

USS NORTH CAROLINA BATTLESHIP

COFFERDAM CONSTRUCTION & HULL REPAIRS PROJECT

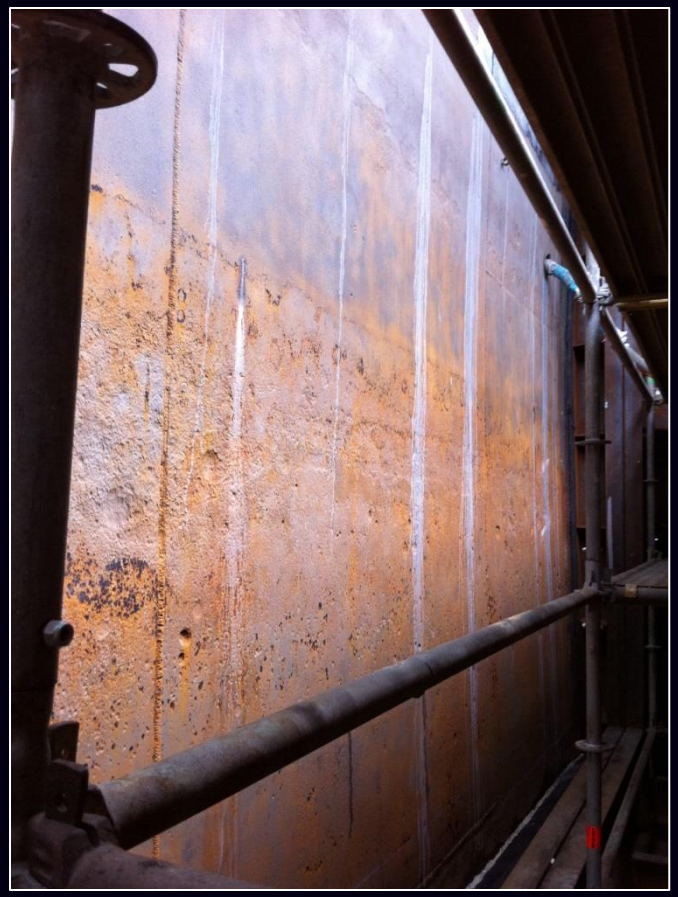
USS NORTH CAROLINA BATTLESHIP
COFFERDAM CONSTRUCTION & HULL REPAIRS PROJECT

NORTH CAROLINA DEPARTMENT OF CULTURAL RESOURCES

PROBLEM

- EXCESSIVE CORROSION TO THE STEEL HULL PLATING
- LAST DRY DOCK HULL REPAIR ACTIVITY WAS 1953
- CATHODIC PROTECTION WAS NOT OPERATIONAL

SECTION OF STARBOARD STEEL HULL



STARBOARD HULL REPAIRS- 2011

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SOLUTION

PHASE I- COFFERDAM CONSTRUCTION

- CONSTRUCTION OF PERMANENT STEEL COFFERDAM AROUND PERIMETER OF THE BATTLESHIP
- PROVIDES DEWATERING CAPABILITY AND ENVIRONMENTAL BARRIER
- DEWATER AND REMOVE SPOIL AWAY FROM THE HULL

PHASE II- STEEL HULL REPAIRS & PAINT

- ASSESS STEEL HULL CONDITION
- REPAIR STEEL HULL AND PAINT
- REFILL COFFERDAM BASIN

USS NORTH CAROLINA BATTLESHIP
COFFERDAM CONSTRUCTION & HULL REPAIRS PROJECT

PRELIMINARY CONCEPT RENDERING OF USS NORTH CAROLINA BATTLESHIP COFFERDAM

NORTH CAROLINA DEPARTMENT OF CULTURAL RESOURCES

USS ALABAMA'S REPAIR SOLUTION

COFFERDAM CONSTRUCTION

NORTH CAROLINA DEPARTMENT OF CULTURAL RESOURCES

USS ALABAMA'S REPAIR SOLUTION

STEEL HULL PLATING REPAIRS

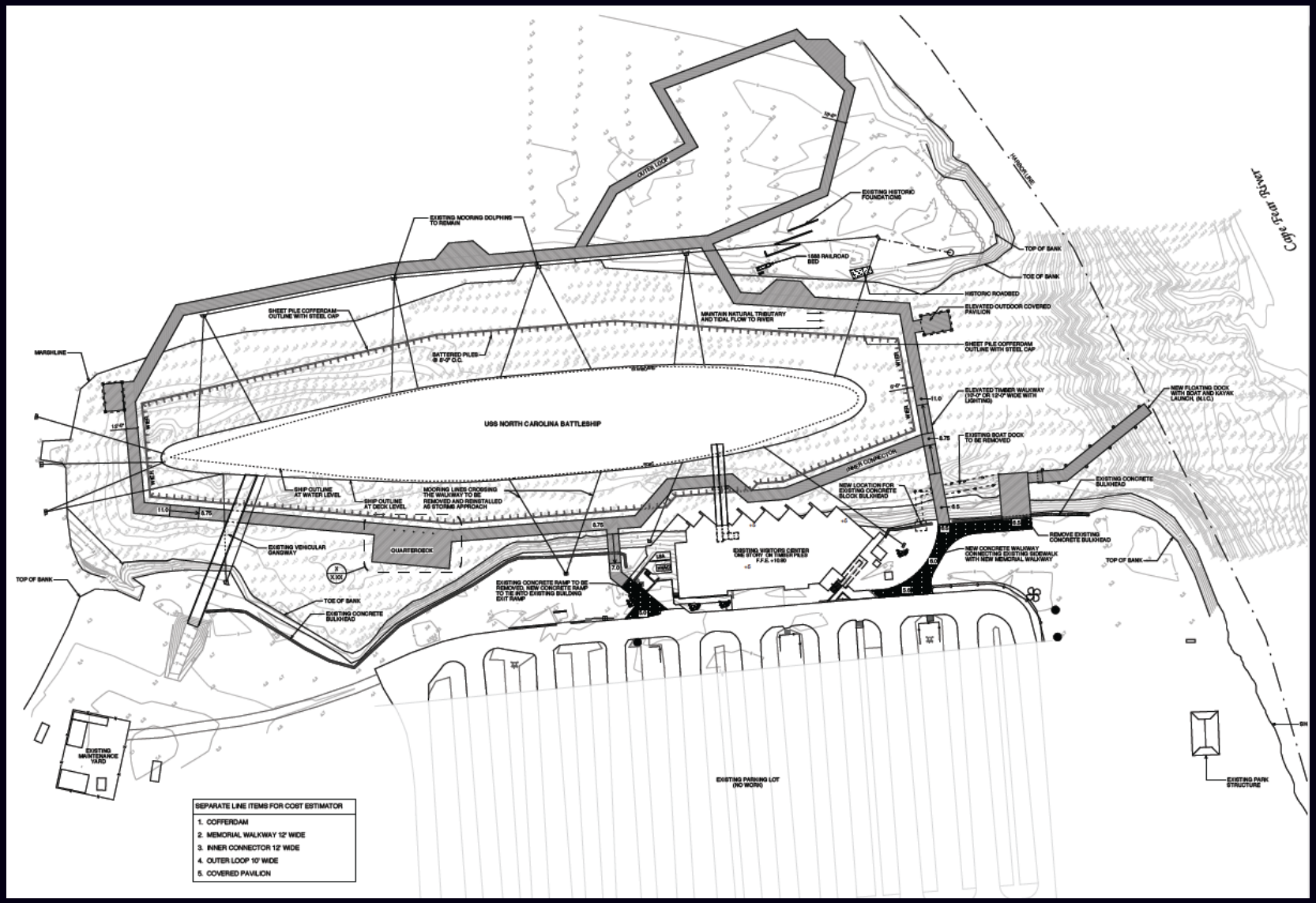
USS ALABAMA'S REPAIR SOLUTION

STEEL HULL PAINTING

USS NORTH CAROLINA BATTLESHIP
COFFERDAM CONSTRUCTION & HULL REPAIRS PROJECT

NORTH CAROLINA DEPARTMENT OF CULTURAL RESOURCES

PROPOSED USS NC BATTLESHIP HULL REPAIRS PLAN



CURRENT PROJECT STATUS

COMPLETED

- ENVIRONMENTAL PERMITING COMPLETE AND IN-HAND
- GEOTECHNICAL INVESTIGATION COMPLETE
- COFFERDAM SCHEMATIC DESIGN COMPLETE

IN PROGRESS

- STRUCTURAL ENGINEERING FOR COFFERDAM , WEIRS, AND PUMPS
- DESIGN DEVELOPMENT DRAWINGS

NEED TO COMPLETE

- COFFERDAM CONSTRUCTION DOCUMENTS AND SPECIFICATIONS
- STEEL HULL CONDITION ASSESSMENT
- STEEL HULL REPAIRS AND PAINT

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COFFERDAM CONSTRUCTION SCHEDULE

FEBRUARY 16, 2015	COMPLETED SCHEMATIC DESIGN AND DRAWINGS
MARCH 15, 2015	COMPLETED ENVIRNOMENTAL PERMITTING
MAY 15, 2015	COMPLETE DESIGN DEVELOPMENT DRAWINGS
AUGUST 17, 2015	COMPLETE CONSTRUCTION DRAWINGS
OCTOBER 16, 2015	COMPLETE 60-DAY STATE CONSTRUCTION OFFICE REVIEW
NOVEMBER 28, 2015	6-WEEK BID ADVERTISEMENT COMPLETE/ OPEN BIDS
EARLY JANUARY 2016	COFFERDAM CONSTRUCTION UNDERWAY
EARLY WINTER 2016	COFFERDAM CONSTRUCTION COMPLETED

STEEL HULL REPAIR SCHEDULE (Pending Available Funding)

JANUARY 15, 2017	DEWATER COFFERDAM T FOR STEEL HULL INSPECTION
JANUARY 15, 2017	BEGIN DESIGN OF STEEL HULL REPAIRS
MAY 2017	COMPLETE DESIGN OF STEEL HULL REPAIRS
JULY 2017	COMMENCE STEEL HULL REPAIRS
MARCH 2018	COMPLETE STEEL HULL REPAIRS

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ESTIMATED PROJECT COSTS

ESTIMATED TOTAL PROJECT COST	$13,500,000
COFFERDAM CONSTRUCTION	$7,000,000
STEEL HULL REPAIRS	$6,500,000

FUNDING

COFFERDAM CONSTRUCTION – $7,000,000

<u>$3,500,000 from State of North Carolina (Public)</u>

- $500,000 from OSBM Repair and Renovation Reserve Allocation for Emergency Hull Repair Project for Engineering & Permitting (8/27/2014)
- $3,000,000 from 2/3 Bonds through an appropriation authorized in Senate Bill 744- Section 36.10

<u>$3,500,000 from USS North Carolina Battleship Commission (Private)</u>

FUNDING

STEEL HULL REPAIRS CONSTRUCTION – $6,500,000

$

$3,500,000 from State of North Carolina (Public)

- Request from DCR for additional Project Funding

$3,000,000 from USS North Carolina Battleship Commission (Private)

SUMMARY OF EXPENDITURES

Emergency Starboard Hull Repairs- Total $2,096,256

2011	$ 168,828	Engineering and Design	Battleship Commission
2011	$1,927,428	Construction	Battleship Commission

Proposed Project – Total $314,907

2013-14	$23,000	Environmental Permitting	DCR/ State of NC
2014	$76,700	Geotechnical Services	DCR/ State of NC
2014	$7,500	Surveying	DCR/ State of NC
2014-15	$207,707	Design and Engineering Services	DCR/ State of NC

QUESTIONS

NC MUSEUM OF HISTORY

ADVANCE PLANNING FOR EXPANSION & RENOVATION

NC MUSEUM OF HISTORY
ADVANCE PLANNING - MUSEUM EXPANSION AND RENOVATION

PROBLEM

- 21 YEAR OLD MUSEUM IS DEGRADED AND EQUIPMENT AT END OF LIFE CYCLE
- BUILDING RECEIVES NEGATIVE FEEDBACK FROM VISITORS
- NEED SPACE FOR TRAVELING EXHIBITS AND COMPLETE STORY OF NC
- NEED FOR ENHANCEMENTS AND FACILITIES TO GENERATE REVENUE

SOLUTION

- PERFORM ADVANCE PLANNING AND DESIGN FOR EXPANSION AND RENOVATION
- DEVELOP MASTER PLAN
- DEVELOP TRUE CONSTRUCTION COST ESTIMATES
- PROVIDE MARKETING DOCUMENTS AND RENDERINGS TO SUPPORT CAPITAL CAMPAIGN
- DESIGN AN INNOVATIVE, ENERGY EFFICIENT, CREATIVE, AND TECHNOLOGICALLY ADVANCED HISTORY MUSEUM

NC MUSEUM OF HISTORY
ADVANCE PLANNING - MUSEUM EXPANSION AND RENOVATION

CURRENT PROJECT STATUS

AUGUST 28, 2014	DCR RECEIVES ADVANCE PLANNING APPROPRIATION
SEPTEMBER 11, 2014	REQUEST FOR DESIGN PROPOSALS (RFP) ADVERTISED
OCTOBER 3, 2014	RFP ADVERTISEMENT CLOSES
NOVEMBER 4, 2014	DESIGNER INTERVIEWS COMPLETED
NOVEMBER 25, 2014	DESIGNER SELECTION RECOMMENDATION APPROVED BY THE STATE BUILDING COMMISSION
JANUARY 5, 2015	DESIGNER CONTRACT EXECUTED WITH LS3P ASSOCIATES
JANUARY 21, 2015	KICK-OFF DESIGN MEETING WITH DESIGNER/MUSEUM
FEBRUARY 2, 2015	PROGRAMMING AND STAFF MEETINGS BETWEEN DESIGNERS , STAFF, AND STAKEHOLDERS
FEBRUARY 11-12, 2015	EXHIBIT DESIGNER PROGRAMMING MEETING WITH MUSEUM STAFF
MARCH 2-3, 2015	DESIGNER'S SPACE AND PROGRAMMING REPORT MEETING WITH STRUCTURAL ENGINEERS
MARCH 18, 2015	PRELIMINARY STRUCTURAL ANALYSIS REPORT

NC MUSEUM OF HISTORY
ADVANCE PLANNING - MUSEUM EXPANSION AND RENOVATION

SCHEDULE

JANUARY-APRIL, 2015	ADVANCE PLANNING UNDERWAY
APRIL 30, 2015	ADVANCE PLANNING DOCUMENTS COMPLETE
APRIL 30, 2015	ECONOMIC IMPACT ANALYSIS COMPLETE
MAY 15, 2015	SCO REVIEW COMPLETE OF ADVANCE PLANNING DOCUMENT
MAY 30, 2015	FUND RAISING/MARKETING PACKAGE COMPLETE
SEPTEMBER 1, 2015	67% SCHEMATIC DESIGN PACKAGE COMPLETE

FUNDING AND EXPENDITURES

DESIGN CONTRACT WITH LS3P ASSOCIATES LTD.

ADVANCE PLANNING	$500,000
CONCEPTUAL DESIGN & PARTIAL SCHEMATIC DESIGN	$995,950
	$1,495,000

EXPENDITURES

FEBRUARY 26, 2015	DESIGN FEES	$25,000
MARCH 22, 2015	DESIGN & ENGINEERING FEES	$150,000
		$175,000

QUESTIONS