

Allocations from the 2006 Reserve
For Repairs and Renovations
Non-University Projects

Consultation with the Joint Legislative Commission
On Governmental Operations

Office of State Budget and Management

September 19-20, 2006

Allocations from the 2006 Reserve for Repairs and Renovations Non-University Projects

EXECUTIVE SUMMARY September 19-20, 2006

The General Assembly in The Current Operations and Capital Improvements Appropriations Act of 2006 (Session Law 2006-66) authorized the use of \$222,229,189 for the repair and renovation (R&R) of state-owned facilities in FY 2006-07. Of these funds, the General Assembly allocated \$120,003,762 (54%) for non-university projects. State agencies were instructed to submit a prioritized list of R&R project needs by August 18, 2006. Requests totaling \$427.9 million for 362 projects were received.

The Office of State Budget and Management (OSBM), working with the State Construction Office (SCO), employed a multi-step process to select FY 2006-07 non-university repair and renovation projects.

1. The agencies submitted prioritized lists of repair and renovation projects, approved cost estimates using the Office of State Construction's OC-25 Form, and OSBM's R&R Request Worksheets.
2. OSBM met with each agency to review their requests in detail to better understand the scope, feasibility and priority of requested projects.
3. OSBM utilized a funding model to establish a baseline for the approximate repair and renovation allocation for each agency. The formula used by OSBM considered the most recent information on the current replacement value, condition indicated by FCAP reports, size, and age of agency facilities. Previous fiscal years repair and renovation and Certificate of Participation funding allocations and allocations for high priority projects were also taken in to consideration.

Using the baseline funding allocations and project specific information, OSBM and SCO made final selections of repair and renovation projects based on the statutory requirements of (G.S. 143-15.3A). Funds may be used only for the following types of project. The numbers of projects that indicated each type are shown in parenthesis.

1. Roof repairs and replacements (50)
2. Structural repairs (30)
3. Repairs and renovations to meet federal and State standards
4. Repairs to electrical (56), plumbing (47), and heating, ventilating, and air-conditioning systems (64)
5. Improvements to meet the requirements of the Americans with Disabilities Act, 42 U.S.C. § 12101 et seq., as amended (32)
6. Improvements to meet fire safety needs (56)
7. Improvements to existing facilities for energy efficiency (47)
8. Improvements to remove asbestos, lead paint, and other contaminants, including the removal and replacement of underground storage tanks (31)
9. Improvements and renovations to improve use of existing space (53)
10. Historical restoration (5)
11. Improvements to roads, walks, drives, utilities infrastructure (39)
12. Drainage and landscape improvements (12)

Funds may not be used for new construction or for the expansion of the building area of an existing facility unless required for compliance with Federal or State codes or standards.

Two hundred five projects totaling \$120,003,762 are recommended for allocation from the 2006-07 Repair and Renovations Reserve.

Allocation to each Agency/Department

Department	Amount	
Department of Administration	16,839,000	14.0%
Office of State Budget & Management	5,658,013	4.7%
Crime Control & Public Safety	4,612,892	3.8%
NC Ports Authority	3,000,000	2.5%
NC General Assembly	712,014	0.6%
Department of Correction*	27,507,900	22.9%
Department of Cultural Resources**	12,898,800	10.7%
Department of Justice	5,585,000	4.7%
Department of Environment & Natural Resources	7,935,800	6.6%
Department of Agriculture & Consumer Services	6,330,157	5.3%
Department of Commerce	1,757,600	1.5%
Department of Health & Human Services	22,756,586	19.0%
Dept. of Juvenile Justice and Delinquency Prevention	4,410,000	3.7%

Total \$ 120,003,762

* Includes \$11,800,000 for facilities at Central Prison, location of the Regional Medical Center and Mental Health Center in the Dept. of Correction

** Includes \$2,800,000 for facilities at the Palmer Memorial Institute State Historic Site

The following report outlines the Office of State Budget and Management's allocations to each agency and the selected projects that will address the most critical repair and renovation needs. This report is submitted for consultation with the Joint Legislative Commission on Governmental Operations.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Department of Administration			
State Construction	Justice Building Interior Renovations	\$1,560,000	Work includes casework for Justices offices, high density shelving for Special Collections Room, electrical and security changes, and additional design work associated with these changes.
State Construction	Albemarle Building - Interior Renovations	\$874,000	Work includes restroom renovations on 1st and 3rd Floors to meet ADA requirements and limited asbestos removal work in these rooms. Partial renovation on these floors to rearrange work areas for change in use of space. Renovation includes new partition walls, electrical modifications and HVAC system upgrades to allow for energy savings.
State Construction	New Revenue - Roof Replacement	\$605,000	Roof is about 15 years old and is beginning to develop leaks.
State Construction	Personnel Training Center - Roof Replacement & Interior Renovations	\$437,000	Work includes roof replacement, exterior painting of fascia and soffit, interior painting, ceiling replacement, carpet and floor tile replacement, and refinishing interior doors.
State Construction	Downtown Government Complex -- ADA Improvements	\$500,000	DOI is requiring that restrooms be upgraded to meet ADA requirements when adjacent interior space is being renovated. This fund will be used as a source to upgrade restrooms as interior renovation projects arise. Funding will also be used to prepare study of all Downtown Government Complex buildings and status of restrooms as it relates to ADA regulations.
State Construction	Bath Building - Hood Exhaust Repairs	\$200,000	The existing fume hood exhaust system in State Public Health Lab is seriously comprised and in need of immediate repair. The repairs are necessary to ensure that technicians are properly protected when working under these hoods.
State Construction	Downtown Government Complex -- HVAC Repairs/Energy Savings	\$2,246,000	Replace cooling towers at Chiller Plant #1 and New Revenue. Replace failed VAV boxes in Dobbs and Archdale. All these components are very old and in dire need of replacement. Replacement of failed VAV boxes will provide some energy savings and improve comfort of occupants.
State Construction	Administration Building -- Interior Renovations/HVAC Improvements	\$1,100,000	Work includes carpet installation, painting, and other general improvements to interior space. Work also includes new HVAC controls and valves to improve heating and cooling in building. Security to be enhanced by providing additional cameras and card access within sensitive areas. Building is about 40 years old and most areas are in great need of improvement and repair.
State Construction	Garner Road Complex - Roof Repair	\$424,000	Roof replacement at Buildings 2 (SHP), 5 (SHP), and Heat Plant. Repair roof flashing at Buildings 7(SHP) and 16 (SBI).
State Construction	Garner Road Complex -- Facility & Utility Upgrades	\$1,285,000	HVAC Upgrades to Buildings 4, 5, 8 (SHP), and 8, 16 (SBI). Steam station pump and control retrofit. Building 11 (SBI & SHP) new HVAC, windows, ceiling tiles. Buildings 6 & 7 (SHP) electrical upgrades and ADA upgrades. Building 2 (SHP) HVAC upgrades to server rooms that house SHP computer systems. Fire alarm replacement Buildings 2 & 3 (SHP). Training field drainage improvements. Repairs to walkways, sidewalks, and steps. All systems identified for replacement are extremely old, function poorly, and require constant maintenance.
Veteran's Affairs	Salisbury Nursing Home Utility Project	\$2,428,000	This life safety project would involve purchasing and installing a package boiler and chiller system for the NC State Veterans Home (Building #10) in Salisbury, as well as construction of a building to house the system. This project includes the work necessary to install chilled water and steam system improvements at the facility. Work also includes installation of a security system, parking lot and storage building. The Salisbury VAMC considers this a critical need.
Veteran's Affairs	Spring Lake Veteran's Cemetery - Site/Building Improvements	\$312,000	Site improvements, correction of drainage problems, and additional paving with catch basins to provide better visitor access to the cemetery. Improvements to Committal Shelter include ceiling repairs, rework of casket platform, and installation of pavers beneath shelter. Work also includes repairs to roof of Committal Shelter and Administration Building.
Veteran's Affairs	Fayetteville Nursing Home Improvements	\$242,000	Improvement of existing domestic hot water system that is inadequate and out of compliance with the Cumberland County Health Department requirements. Repair shower stall walls that have been damaged from water leaks from improper shower drains. Install new shower drain pans and reinstall plumbing fixtures. Repair existing fire doors to allow for doors to properly close and maintain listed fire rating. Modify A-Wing to allow for 1/2 open unit type and 1/2 as closed unit type for residents requiring confined hall. Modified wing would better match admission requests.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
State Construction	New Education Building - Interior Renovations	\$147,000	Painting and carpet replacement in areas showing significant wear.
State Construction	Ocracoke NCCAT Building Renovation	\$500,000	Project is under construction and some hazardous materials have been identified and need to be remediated.
State Construction	Caswell Building - Interior Renovations	\$1,173,000	Elevator replacement, lighting retrofit for energy savings, clean duct system, install fire doors, and extend canopy at side entrance.
State Construction	DOA Facility Security Enhancements	\$500,000	Provide cameras and DVRs for parking decks, install code blue phones, and provide additional cameras for loading dock and exterior doors at buildings with existing surveillance systems. Continue implementing recommendations from the security needs assessment report.
State Construction	Dobbs Building Elevator Replacement	\$998,000	Facilities Management has identified this as one of the elevators with the most service calls. The elevators are about 30 years old and in need of modernization.
State Construction	History Museum Storm Drain Pump Replacment	\$37,000	Pumps are used to remove the natural spring and storm water from beneath the parking deck under History Museum. Existing pumps are in dire need of repair. One pump is no longer working. Without pumps, water would enter the deck.
State Construction	Old Revenue Building - Interior Renovations	\$500,000	Provide security, HVAC, and back-up electrical power for IT/Server Rooms. Improve ADA access to building. Secure sensitive areas of building. Provide wall repair, painting, and carpet repair in areas damaged from water leaks (water leaks being presently repaired under current waterproofing project). Repair exterior doors and locks to provide more security.
State Construction	NC WISE Office Cubicles at Textbook Warehouse & New Education Building	\$359,000	Upfit Textbook Warehouse area with cubicles and technology infrastructure for 44 persons working with the N.C. WISE Program. Additional cubicles on the 5th floor of the New Education Building for 22 "Hoteling" work stations for the N.C. WISE Program
State Construction	Brown-Rogers - Roof Replacement/HVAC Repairs	\$162,000	Replace roof and repair existing failed HVAC components to allow this unoccupied building to be stabilized to allow for future major renovation. Once stabilized, building could be used for storage to help ease crowding in Old Revenue Building.
State Construction	Old Health Bldg - HVAC Renovations	\$250,000	Replace aging cooling tower and replace failing water-cooled heat pumps. The heat pump units are obsolete and replacement parts are not available.

Department of Administration Total \$16,839,000

Office of State Budget & Management

OSBM	Contingency	\$5,658,013	This is a contingency reserve for emergency projects approved by OSBM.
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Office of State Budget & Management Total \$5,658,013

Crime Control & Public Safety

National Guard	ADA Compliance Projects and Studies	\$110,060	Project includes all validated ADA studies and renovations in FCAP files provided by State Construction Office.
National Guard	Emergency Lighting Projects	\$70,180	Project addresses all validated facility exit / egress emergency lighting projects Identified In FCAP reports supplied by The State Construction Office.
Butner Public Safety	Energy Efficiency and Automatic Transfer Switch Upgrades	\$82,800	This project will include replacing all existing HVAC units, ducts, thermostats, existing plumbing fixtures, and lighting with energy efficient equipment. The project will also include the installation of an automatic transfer switch for the emergency generator. The manual transfer switch that is currently in place does not provide continuous power in the event of a power outage. It is imperative to have continuous power for emergency communications.
National Guard	Roof Studies	\$10,450	Project addresses all validated roof condition studies identified in FCAP reports supplied by the State Construction Office.
National Guard	Structural Projects and Studies	\$152,550	Project addresses all validated structural projects and structural condition studies identified in FCAP reports supplied by the State Construction Office.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
National Guard	Isolate Hot Water Heaters from Boilers	\$60,070	Project addresses validated hot water heater isolation projects identified in FCAP reports supplied by the State Construction Office.
National Guard	Upgrade Lighting at Various Armories	\$527,360	Project addresses validated lighting system replacement projects identified in FCAP reports supplied by the state construction office. Light fixtures are as much as 40 years old in some facilities and they present problems related to maintenance, aesthetics, light output and energy consumption.
National Guard	N. Wilkesboro Armory-UST Groundwater Remediation	\$171,315	The UST at N. Wilkesboro Armory was removed and contaminate levels are high enough to require the implementation of a ground water ' air scouring" system to remove the petroleum products from the area over time. The project involves the services of an environmental engineering firm to install, operate, monitor, sample and report on the remediation over a planned 3 year period.
National Guard	Grease Traps for Armories- Phase I	\$42,563	The overwhelming majority of our armories were built prior to local governments enacting sewer use ordinances as a result of their NPDES permits issued by DENR. These sewer use ordinances require that kitchens in buildings classified as certain occupancies must be equipped with a properly sized and maintained grease trap to keep fats, oils and greases out of their collection and treatment systems. This project provides funds to retrofit 40 of our armories with an "in the kitchen" model of grease trap that is our most economical option.
National Guard	Roof Replacement - Winston Salem	\$306,450	Project is to replace the existing built up roofing installed in 1988 which has run out of warranty and is leaking on a more frequent basis. Repairs have been made, but the frequency of leaks and the costs of repairs are increasing quickly. An FCAP report is on file recommending replacement.
National Guard	Roof Replacement - Asheboro	\$222,830	Project is to replace the existing built up roofing installed in 1988 which has run out of warranty and is leaking on a more frequent basis. Repairs have been made, but the frequency of leaks and the costs of repairs are increasing quickly. The motor vehicle shop is also to receive a seal coat to it's asbestos cement roof. FCAP report's are on file recommending both actions.
National Guard	Roof Replacement - Farmville	\$194,060	Project is to replace the existing built up roofing installed in 1987 which has run out of warranty and is leaking on a more frequent basis. Repairs have been made, but the frequency of leaks and the costs of repairs are increasing quickly. An FCAP report is on file recommending this action.
National Guard	Roof Replacement & Repairs - Marion	\$119,240	Project is to replace the existing membrane roofing installed in 1988 which has run out of warranty and is leaking on a more frequent basis. Repairs have been made, but the frequency of leaks and the costs of repairs are increasing quickly. There is also standing seam metal roofing that needs repairs under this project. FCAP reports are on file recommending these actions.
National Guard	Replace Boilers Statewide - Phase I	\$213,660	Project is to replace the existing hot water boilers which are the primary heat source at each armory. Replacement boilers are either LP or natural gas, and rather than a single large capacity boiler, the systems are sets of multiple smaller capacity boilers which are controlled to fire only on demand. This change from the legacy system requires electrical and plumbing alterations and these projects also typically involve asbestos insulation on the old boilers. FCAP reports are on file recommending these actions.
National Guard	Tarboro Armory Targeted Renovation	\$147,670	Project is to replace the old single pane windows, replace old inefficient lighting, meet ADA compliance and make repairs to the parking lot at the Tarboro Armory. FCAP reports are on file recommending these actions.
National Guard	Rockingham Armory Targeted Renovation	\$129,620	Project is to repair the roof, repair windows, replace old ceilings and make repairs to storm water drainage and the parking lot at the Rockingham Armory. FCAP reports are on file recommending these actions.
National Guard	Thomasville Armory Targeted Renovation	\$256,490	Project is to repair floors, windows, walls, replace old electric panel, make ADA modifications and install a fire alarm system at the Thomasville Armory. FCAP reports are on file recommending these actions.
National Guard	Asheboro Armory Targeted Renovation	\$286,980	Project is the replacement of windows, walls, replace old electric wiring in armory and upgrade service to storage building, isolate HW heater from boiler, make ADA modifications and install range hood at the Asheboro Armory. FCAP reports are on file recommending these actions.
National Guard	Parking Lot and Drainage Repairs Statewide- Phase I	\$1,358,544	Project is to address pavement repairs and drainage improvements at multiple locations statewide. FCAP reports are on file recommending these actions.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
National Guard	Oil Water Separators At Armories - Phase I	\$75,000	Project is to address installation of oil water separators at multiple locations statewide. DENR and local storm water rules mandate this action. Priority one location is at Butner training site due to Neuse River rules and drinking water impoundment in the drainage basin.
National Guard	Remove Lead Contamination at Indoor Ranges - Phase I	\$75,000	Project is to address remediation of lead contamination inside indoor ranges at armories. Health and safety requirements mandate this action.
Crime Control & Public Safety Total		\$4,612,892	

NC Ports Authority

North Carolina State Ports Authority	Emergency Sinkhole Repair	\$750,000	The Port of Wilmington has experienced significant settling resulting in collapse of pavement work areas on Berth 2. This project will include the emergency repair of two sinkholes, the structural evaluation of Berths 1 and 2 to determine the root cause of the sinkholes, and the design and construction of a solution to resolve the structural problems. Note that recent investigations have revealed a large void of approximately 120' by 5' by 20' wide under the berth structure which must be repaired immediately.
North Carolina State Ports Authority	Portwide Berth Structure Repairs	\$750,000	Port-wide berth structure repairs are needed because the super-structure supporting the infrastructure is in need of maintenance due to age. The Port of Morehead City has experienced sinkholes, significant settling of pavement work areas, deteriorated concrete dock structure and mooring and fendering systems, and scouring along the berths. Operational limitations have been imposed in several areas at the Port of Morehead City as a result of these structural problems.
North Carolina State Ports Authority	Berth Structure Improvements to Support Transit Shed	\$800,000	To meet projected business development needs for a new warehouse at the Port of Morehead City, a 1500 psf floor load is required to accommodate the cargo of steel products and paper in a new warehouse near the Berth 8 and 9 structure. Structural repairs/improvements are required for Berths 8 and 9 to ensure the integrity of the structure, associated structural equipment (cranes, rail, railroad, etc.) and hardstand.
North Carolina State Ports Authority	Modify Berths for 42' Channel	\$700,000	This project will replace the existing fender system and hardware at Berth 9 in order for larger ships to be safely worked at the Port of Wilmington in New Hanover County. The existing fender system and hardware at Berth 9 need to be replaced to protect and fully utilize the significant state and federal investment in the channel.
NC Ports Authority Total		\$3,000,000	

NC General Assembly

General Assembly	Repairs & Renovations to the Legislative Building Roof	\$712,014	General Repairs to the Legislative Building Roof that will include the removal of existing cooper roof system adjacent to the existing flat roof membranes. The removal and replacement of the existing cap/counter flashings. The removal and replacement of both mechanically fastened and ballasted existing flat roof systems with a new single-ply roof. Removal and replacement of the soffit expansion joints. Paint and refinish the exposed concrete soffits.
NC General Assembly Total		\$712,014	

Department of Correction

Prisons	Central Prison - Repairs & Renovations	\$11,800,000	R&R portion of project to replace the existing hospital and mental health housing unit. Includes demolition of existing buildings and related site/utility work to clear/prepare the site for the new hospital and mental health unit. The OC-25 request was for \$151,694,600, which covers the entire project cost.
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2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Various	Fire and Life Safety Projects	\$750,000	Install fire alarm systems as identified in annual DOI inspections, install egress lighting and exit signs, as needed. Install generators at various sites. Upgrade electrical service for Carpentry Shop at McCain CH. The OC-25 request was for \$4,440,8000, which covers projects anticipated for this and future years.
Various	Kitchen Hood Suppression System Upgrades	\$150,000	Upgrade, repair and/or replace kitchen hood suppression systems to meet code requirements. The OC-25 request was for \$741,200, which covers projects anticipated for this and future years.
Various	Replacement/Upgrade of Obsolete Electronic Systems	\$1,000,000	Replace obsolete door controls, perimeter security detection and surveillance systems. The OC-25 request was for \$5,917,700, which covers projects anticipated for this and future years.
Various	Roof Repair and Replacement Projects	\$1,000,000	Repair and replacement of existing roofs on facilities statewide. The OC-25 request was for \$6,850,100, which covers projects anticipated for this and future years.
Various	Mechanical Systems Repair/Renovation	\$500,000	Replace gas packs older than 15 years, replace high rise plumbing, upgrade dust collection system. Renovations and replacement to mechanical systems. The age and condition of these systems requires increased maintenance and increases the potential for frequent outages which could require the evacuation of the inmate population. The evacuation would pose an increase threat to the safety and security of the public. The OC-25 request was for \$1,757,100, which covers projects anticipated for this and future years.
Various	Water/Wastewater Improvements	\$1,000,000	Automated solids removal for sanitary sewer systems. Projects required to maintain adequate service and compliance with local, state and federal requirements. The OC-25 request was for \$6,536,000, which covers projects anticipated for this and future years.
Various	Energy Efficiency Improvement Projects	\$500,000	Add small split systems for control rooms, convert LPG to Natural Gas, convert domestic water system to small boilers, and install more efficient light fixtures to maintain adequate service and compliance with utility savings program. The OC-25 request was for \$2,188,400, which covers projects anticipated for this and future years.
Various	Perimeter Fence System Upgrades	\$5,438,300	Renovation of perimeter security fence systems, including electronic intrusion detection systems, new lighting systems, pave chase roads and parking area improvements and utility relocation. The modifications will result in the reduction of post required for perimeter security. The OC-25 request was for \$18,647,700, which covers projects anticipated for this and future years.
DACDP	Weatherproofing of O'Berry Building/DART Cherry	\$100,000	Weatherproof, renovate and repair O'Berry Building (constructed in the 1930s) for administrative offices. The OC-25 request was for \$312,000, which covers projects anticipated for this and future years.
Various	Demolition of Abandoned Buildings	\$250,000	Demolish buildings and structures at various units that are uninhabitable and are in various stages of disrepair. The buildings and structures pose a safety hazard to staff, visitors and inmates. The OC-25 request was for \$475,600, which covers projects anticipated for this and future years.
Various	Paving Repairs to Parking and Driveway Areas	\$250,000	Repair and repave parking areas, access roadways, etc. at various facilities throughout the system. The OC-25 request was for \$2,708,600, which covers projects anticipated for this and future years.
Various	Repair to Kitchen Floors	\$100,000	Upgrade and repair kitchen floors at various units. The OC-25 request was for \$559,400, which covers projects anticipated for this and future years.
Various	Asbestos Abatement	\$100,000	Abatement of asbestos-containing materials in fair to poor condition at various prison units as identified by inspection reports and engineering studies. The OC-25 request was for \$288,200, which covers projects anticipated for this and future years.
Various	Underground Storage Tank Removal	\$100,000	Removal or permanent closure of approximately eight (8) inactive Underground Petroleum Storage Tanks (USTs) and the installation of one (1) replacement vaulted Aboveground Storage Tank to meet State regulatory requirements. The OC-25 request was for \$336,200, which covers projects anticipated for this and future years.
Fountain CCW	Demolition of Abandoned Buildings Fountain CCW	\$1,219,600	Demolish buildings that are uninhabitable and are in various stages of disrepair. The buildings pose a safety hazard to staff, visitors and inmates. The OC-25 request was for \$1,219,600.
Swannanoa JEC	Phase I of Complex Renovation for Conversion to a DOC Female Facility	\$3,250,000	Repairs and renovations to convert the facility to DOC usage. The OC-25 request was for \$3,250,000.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Department of Correction Total		\$27,507,900	
Department of Cultural Resources			
Historic Sites	Oteen Center Renovation	\$3,434,700	Renovation of an existing 3-story abandoned nurse's dormitory for use as a regional records center and the headquarters of the Western Office of the Division of Archives and History. Work will include structural stabilization, exterior masonry repairs, all PM&E items, elevator, sprinklers, asbestos abatement, all finishes and insulation. Exterior work will include roadwork, walks, parking area and landscaping.
Historic Sites	Historic Halifax – William R. Davie House Renovation	\$1,058,400	This project is the complete restoration of the circa 1785 Wm. R. Davie House. Restoration would include but not limited to: removing 19th & 20th century additions, replacing the asphalt shingle roof with period reproduction wood shingles, removing modern in-fill in the foundation and stabilizing and re-pointing the original piers, replacing sills, stabilizing and re-pointing the chimneys, rebuilding chimney stacks, preserving the early cornice and siding, restoring finishes, replacing improper hardware, adding an HVAC system sufficient for a house museum, installing a fire alarm and sprinkler system, exterior changes to provide ADA access to property and house.
Museum of History	Mountain Gateway Museum Site Improvements	\$356,900	Repair approximately 600 SF stage, add canopy and provision of restroom facilities for 350-400 visitors to meet code. Remove abandoned underground storage tank. Replace damaged site sign and make electrical repairs at Mauny House for code compliance.
Historic Sites	Charlotte Hawkins Brown Memorial - Kimball Hall Interior Renovations	\$1,792,000	This project will complete the interior renovations of this circa 1927, 8,832 SF brick structure which served as the dining hall at Palmer Memorial Institute. Previous CI Funding provided for exterior stabilization of this building. This request is Phase II of this master plan. The site is under development, and lacks a suitable space to accommodate the public for events, support group meetings and exhibitions. The section has identified Kimball Hall to be utilized to fill this void in visitor service offerings. Requested amount reflects receipt of \$200K (2005 R&R) prior funds against the Total Project Cost of \$1,992,000 of the certified OC-25 .
Archives and Records	Outer Banks History Center HVAC Repair	\$18,300	Maintaining optimal operation of the HVAC system is essential for the preservation of the invaluable records, documents, papers, art work, and other materials pertaining to North Carolina's coastal history in custody of the Outer Banks History Center. Inspection of the HVAC's cooling coil has revealed serious degeneration due to exposure to the marine environment in Manteo. It is critical that the cooling coil be replaced to protect the Center's holdings from the threats of high humidity, temperature, and mold caused by ineffective operation and failure of the system.
Administration	Archives-Library Building HVAC & Elevator Upgrades	\$2,450,000	Project is to replace the six existing air-handlers, chillers, pumps, add VAV boxes, additional controls, replacement electrical panels, transformers, replace all four elevators and controls, and repair/replace patio (18,600sqft) that functions as the basement roof, in Archives-Library Building. Replacement of steam hot water generators.
Historic Sites	CSS Civil War Museum Life Safety & Code Compliance Repairs	\$193,900	Project is to complete critical life safety deficiency repairs and correct certain non-compliant building issues raised by FCAP and DOI inspections. Work to include life safety and code corrections including bathroom accessibility, staircase exit system, exit doors, elevator service & upgrade, exterior window & wall repair, emergency egress & exit lighting and upgrades to fire alarm & electrical systems.
Historic Sites	Somerset Place HVAC Repairs	\$124,500	Project is to repair or replace the existing chilled water system that serves the Colony House (Visitor Center & Reception, 1,566 sq. ft.) and the Collins Family Home (6,809 sq. ft.).
Historic Sites	Reed Gold Mine Visitor Center HVAC Replacement	\$101,300	Project is for the replacement of 30 year-old oil-fired furnace with new system to be designed. Existing system is old and in poor condition. General Construction will be limited to providing access to ductwork and reinstalling finishes as required. This unit supplies conditioned air to approximately 4,300 square feet in the existing facility.
Museum of History	Museum of the Cape Fear Visitor Center Repairs	\$360,800	Partial roof repair, HVAC replacement, electrical and plumbing upgrades, paving, handrail replacement and general carpentry.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Historic Sites	Charlotte Hawkins Brown Memorial - Massachusetts Cottage Renovation	\$672,100	Renovation of an existing abandoned instructional building for use as a historic-period museum. Work will include interior/exterior repairs, all PM&E items, alarms, sprinklers, accessible ramp, and accessible parking.
Historic Sites	Charlotte Hawkins Brown Memorial, Galen Stone Hall Interior Renovations	\$335,900	Renovate interior of Galen Stone Hall for use as a new visitor center for Charlotte Hawkins Brown State Historic Site. Work will include structural stabilization, all PM&E items, elevators and sprinklers, all finishes and insulation.
Historic Sites	Roanoke Island Festival Park - Exhibit Repair and Enhancement Project	\$2,000,000	Project includes the enhancement of hands-on learning opportunities in the Roanoke Adventure Museum, the development of a Native American cultural education center, and improvements to the Visitors Center. The funds requested will be used in each of these areas and will significantly improve the RIC's ability to involve residents and visitors of all ages in a creative and stimulating exploration of Roanoke Island's historical, cultural, and natural resources.
Department of Cultural Resources Total		\$12,898,800	
Department of Justice			
State Bureau of Investigation	Garner Road Complex Parking Lot and Lighting for Bldg 17 & 18	\$183,400	Renovate and update parking area to ensure adequate lighting and ADA code compliance behind buildings 17 & 18 at the SBI Garner Road complex. Building will be utilized by the Department of Justice - Information Technology Division (ITD).
NC Justice Academy	Renovate Gymnasium	\$4,125,600	This building was originally constructed in 1955 and no major renovation other than roofing replacements have taken place. (The majority of the roofing system was replaced in 1998 and the remaining small portion was completed in November 2005). Practical and physical skill training is a crucial part of law enforcement training. The current out-dated facility does not provide the type of facility we need to perform this training. This project will include the renovation of the majority of the 17,950 SF. Building, turning the existing structure into a modern training facility. The newly renovated building will provide the Academy practical training areas, physical skills training areas, and training labs.
NC Justice Academy	New Entrance from St. Paul's Road to PL #2	\$104,200	The entrance from St. Paul's Rd. to the main parking area is in a dangerous location. When exiting the parking lot, it is very difficult to see over a small hill that limits visibility. The Department of Transportation performed a study in 1999 and it supports the need for a new entrance. Vehicles turning onto St. Paul's Road from the parking lot do not have adequate time to react to vehicles cresting the hill. Numerous near-misses have occurred. This project will be the construction of a new entrance on the eastern side of the parking lot allowing a clear field of vision when exiting the parking area.
State Bureau of Investigation	Upgrade Lighting Systems in Bldg 12 and 16	\$149,400	Upgrade lighting to Type T8. The existing lighting is Type T12 and is past its useful life. Ballast failure is expected. Building 12 is the SBI Administration Building, which houses the Director and Management Staff. Also, located in this building is the SBI Operations Center. Good and continuous lighting in this building is essential to the work conducted. Building 16A/B houses the SBI Identification Section, which services all law enforcement in the State.
State Bureau of Investigation	Window Replacement for Buildings 9 and 11	\$394,600	The existing windows are of the architecturally projection type, with steel frames, no thermal breaks and only a single pane of glass. A great deal of infiltration around cracks and inadequately operating windows has been noted. Also, load estimates have indicated a very high percentage of heat losses and gains associated with the large amounts of glass area in the buildings. The new design will eliminate this problem. There is presently no leakage associated with the windows, however, some of the windows had to be welded closed to prevent leaking.
NC Justice Academy	Royal Classroom Building Renovation	\$627,800	This project is the renovation of the Royal Building which was built in 1962 and is nearly 6,000sqft. The building houses 6 classrooms used for law enforcement training. This project will allow the Academy to provide modern up to date classrooms used for law enforcement training.
Department of Justice Total		\$5,585,000	

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Department of Environment & Natural Resources			
NC Museum of Natural Sciences	Roof and Dome Repair	\$175,000	The Museum has several roof leaks in the dome that require constant cleanup. The Museum has attempted on several occasions with various roof contractors and Facility Services to repair the roof and has been unsuccessful. The dome section of the roof is leaking over exhibits and office space. This leak has the potential of damaging valuable exhibits (\$4.5M) below it. State Construction inspected the roof and has determined that the rubber seals around the skylights and the dome area need to be replaced.
Division of Forest Resources	Structural and Remodeling Repairs	\$400,000	This request partially funds structural repair/remodeling projects of various types at two Educational State Forests, the D-11 headquarters (Orange County), and over twenty other projects statewide. Typical projects are replacing siding and doors, replacing rotten exterior walls, renovating bathrooms, and remodeling existing space and exhibits. The projects increase visitor safety and reduce exposure to liability claims.
NC Zoological Park	Children's Discovery Center Renovations	\$779,300	This project will renovate the existing temporary Australia exhibit into a large, colorful, and educational children's play area near the North America Entrance. This portion of a larger project will renovate the existing animal holding buildings, exhibit buildings, and paddocks into a variety of other uses.
Parks and Recreation	Stone Work Regrouting on Restaurant, Mt. Mitchell SP	\$85,000	Replace grout in all stone work. Mortar in the stone work is falling out allowing water to penetrate the interior component of the structure causing damage. This stone work is as high as 30' in some locations and has allowed for stone to dislodge and fall from the walls creating safety hazards. The structure was built in 1955. It is constructed mostly of stone and has had no major renovations since being built. The years of harsh weather due to its location has created this need. This structure is in one of harshest environments in North Carolina.
Aquariums-PKS	Entrance Road Parking, PKS Aquarium	\$76,400	The Aquarium currently has 222 public parking spaces plus 7 handicapped spaces. Visitation routinely surpasses 5,000 per day and sometimes exceeds 7,500 per day, resulting in parallel visitor parking along the entrance drive (Roosevelt Blvd.). Because of the road design, this creates a dangerous pedestrian egress situation where large numbers of families walk along the narrow road in traffic. Parallel parking creates another traffic bottleneck and puts drivers and pedestrians at risk. This project is for design and construction of additional paved diagonal parking along one side of the entrance drive that will make adequate room for cars (approx. 160 spaces) and create a safe path for visitors who then walk into the Aquarium.
Aquariums-Fort Fisher	Fort Fisher Visitor Waiting Area Canopy	\$251,800	Provide a versatile, all weather, overhead protection awning to the front entrance of the Fort Fisher Aquarium in order to shield visitors from rain and direct sun exposure as they view the building sculptures, front façade, and purchase admission tickets to the Aquarium facility.
Division of Marine Fisheries	Retaining Wall, Steps, Walks, & Storm Drainage	\$254,800	Installation of a masonry retaining wall and concrete drainage valley at the south end of the gravel equipment yard provides storm water control, erosion protection, and prevents structural damage occurring to the hangar. During heavy rains the hangar becomes flooded and heavily soiled. Concrete steps and walks facilitate access to the Hangar Building from the Warehouse.
NC Division of Marine Fisheries	South River Dredging and Boat Ramp	\$248,500	This project requests maintenance dredging for the South River Boat Basin. Due to shallow offshore shoaling near the basin entrance, grounding of research and other vessels during entrance/exit of basin is possible. The project also includes the boat ramp improvement at the northeastern end of the berths. Dredged material disposal to be located on existing site. DMF vessels are berthed at this location during severe weather. Note: The total project cost is estimated to be \$326,600 with \$78,100 (balance is \$248,500) remaining from last years R&R request for this purpose. Additional bathymetry studies show considerable more material must be dredged to allow entry and exit of Marine Fisheries vessels.
NC Zoological Park	Picnic Area Parking Renovation	\$288,700	This project will convert an existing 90,000 sq. ft. graveled parking lot into a fully ADA-compliant, safe and attractive asphalt lot with appropriately marked lanes, spaces and directional signage. The existing lot is muddy, dusty, damaged by bus traffic, and is not ADA-compliant. This lot is near the main traffic entrance for the Zoo and, when completed, will reduce the heavy bus traffic on approximately one mile of existing pavement.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
North Carolina Aquariums on Roanoke Island	Quarantine Building Electrical Safety	\$22,800	This project is to replace one 30 year old rusted metal panel box, rewire existing circuit wiring to an endangered species Sea Turtle rehabilitation room, review and replace faulty existing ground fault receptacles in a salt water live animal quarantine and veterinarian care building. The project will also replace electrical pump cut offs and lighting with hard wired toggle switches to prevent electrical shock to staff.
NC Museum of Natural Sciences	HVAC upgrade - Controls and Humidifier	\$14,000	Upgrade of HVAC controls to address obsolete software (no longer supported by maker) is needed at the NC Museum of Natural Sciences Research Lab located on Reedy Creek Road. Protection of the research collections requires a reliable and easily monitored HVAC system. The new controls will work with the existing system and is designed to provide a web-based networked solution, the ability to replace failing controllers, and the ability to expand the current system as need arises. The humidifier is essential to maintaining proper humidity control in the collection ranges. It is rusting and the controls frequently malfunction.
Administration	Building Energy Audit & Analysis	\$75,000	This project will provide an energy audit/analysis of about 15 of our highest energy-consuming buildings in the Department. For example at the Zoo these include the Education/Administration building, the Rocky Coast Exhibit and Holding Building, the Veterinary Hospital, and the Desert Pavilion exhibit building. Other buildings include the Aquariums, the Museum of Natural Sciences, and selected Parks and Forestry facilities. Qualified staff at NCSU's Industrial Extension Service will perform the audit and analysis. The information provided by this audit/analysis will allow DENR to plan and implement a strategy for reducing energy use.
North Carolina Aquariums on Roanoke Island	Heat exchanger replacement	\$85,000	This project is to replace existing electric water chillers with chilled water recirculating from the HVAC chiller. The existing chillers are energy consumers, and require periodic repairs and replacement. The new heat exchanger will not discharge output heat into the room, will not require electricity to operate, and will plumb into the existing cold water pipes from the HVAC chiller. The HVAC operates full time year around.
Division of Marine Fisheries	Annex Air Lock	\$153,800	This project requests to install an enclosed air lock at the south entrance of the Main Building Annex. An air lock at this entrance will reduce the HVAC load and save utility costs. During adverse weather (frequent with coastal conditions) this area becomes very hazardous for people entering or leaving the building. It is extremely slippery and fall injuries can occur.
Division of Forest Resources	Improvements to existing facilities for energy efficiency	\$250,000	This request funds a portion of 85 projects across the state. Typical projects at DFR facilities consist of replacing windows and doors and installing insulation and vinyl siding in an effort to reduce energy usage. The results should be savings in electrical usage along with reductions in LP gas used to heat various buildings.
NC Zoological Park	Chimp Roof Repair	\$161,800	This project is a US Dept. of Agriculture-mandated repair of a chronically leaking roof of the Chimpanzee holding building. It involves removing part of the artificial rockwork and the soil from atop a concrete deck and sides of the chimp holding building (all of which are beneath our Lion Exhibit), waterproofing the concrete deck and exposed building walls with a membrane material, installing a drainage system, and replacing the earth and artificial rock structures. We have tried to repair the leak, in-house, without success. If we do not repair the roof, we may no longer be allowed to exhibit chimpanzees. The USDA is the licensing agency for American zoos.
Parks and Recreation	Youth Dorm/Conference Center Roof Replacement	\$86,700	Two Roofing Projects - #1 Haw River State Park -Replace Youth Dorms 13,000 sq.ft. of badly deteriorated shingled roof, to ensure the structural integrity of the building by keeping the water out of the structure. This roof is 20+ years old and has exceeded its life expectancy. Leaks in the roof have been repaired several times in the recent past and have caused damage to the ceiling in several locations. This project will also include replacing and repairing any rot and structural damage to the rafters. #2 Mount Mitchell State Park - Replace Concession Wood Shake shingle roof. The roof is over 25 years old and is badly deteriorated. The shakes are curling and splitting resulting in water penetrating the structure.
NC Museum of Natural Sciences	Roof Repair-Research Laboratory on Reedy Creek Road	\$11,100	Research Laboratory on Reedy Creek Road has had various roof leaks in the past year. Some minor repairs have not stopped the leaks. This request is to re-flash all existing roof top penetrations. All seams need to be inspected and repaired as required as well as the removal of all project related debris.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Division of Forest Resources	Roof Repairs and Replacements	\$43,400	This project involves roof repairs and replacements on buildings located in various locations throughout the state. The majority of the projects are asphalt shingles or metal roofing. Repair of deteriorated roofing will result in prolonging the life of the buildings and will protect interior finishes along with valuable state owned equipment.
Division of Marine Fisheries	Annex Roof Edge	\$66,400	This project is the installation of new heavy gauge perimeter roof edge that replaces the existing deteriorated roof edge. The existing roof edge cannot be properly secured to prevent extensive roof damage from high winds that occur frequently on the coast.
NC Museum of Natural Sciences	Acro Exhibit Glass Railing	\$69,000	This request is for a glass railing at the Acro exhibit. In order to adequately protect the Acrocanthosaurus specimen and to provide safety for the visitors to the Acro exhibit (valued at \$3M) a glass railing system compatible with the systems used throughout the remainder of the museum needs to be installed. The railing system will be 1/2" thick glass, 42" high and approximately 80 running feet. The style of railing will be affixed to the floor by continuous aluminum shoe.
Division of Forest Resources	Repairs and Renovations to Meet State and Federal Standards	\$54,100	This category includes six projects of various sizes and complexity needed to achieve compliance with State and/or Federal inspection write-ups. Completion of the projects will improve employee health, safety, and work environments. For example, water systems will be upgraded and floor tiles will be replaced under this request.
Division of Forest Resources	Improvements to Meet Fire Safety Codes, Statewide	\$128,000	Nine projects in various areas of the state including eyewash stations, flammable storage cabinets and security measures to aid in employee safety and equipment security.
North Carolina Aquariums	Safety Fencing on Sound Side of Aquarium Grounds	\$21,600	This project is to replace an existing sound side, 675 foot long, wire and wood slat sand fence with a metal fence to prevent visitors from climbing on rock rip rap shore protection. Over the last six years 2,115,000 visitors have used this sound-front natural area. In an effort to prevent accidental falling in the rip rap by visitors crawling on the rocks to get to the water, sand fencing was installed. The sand fence is subject to rusty wires and broken wooden slats. A metal fence in the place of the sand fence will prevent access and possible injury to our general public visitors.
Division of Marine Fisheries	Hangar Fire Wall and Replace Furnaces	\$66,300	The project consists of installing a fire rated masonry wall to provide fire separation between the Hangar Bay and the Mechanical Room. This condition was noted during a recent Department of Insurance inspection and was recommended to be corrected as soon as possible. The existing old furnaces are requiring more frequent repairs and need to be replaced with more energy efficient natural gas types.
North Carolina Aquariums	Aquarium Security Gate Replacement	\$20,000	This project is to replace existing gates with electric fence gates with keypad entry. Because no after hours security is available at night, the gates can not be locked; the fire and police departments need unimpeded entry. Gates with keypads will maintain after hours security while giving fire and police departments keypad entry.
DWQ- Laboratory	Laboratory Compound: Security Gates and Parking Lot Repair	\$88,000	The parking lots at the laboratory complex have deteriorated and extensive cracks have formed in the pavement. To prevent further and more costly damage, funds are requested to patch the cracks, overcoat the entire parking lot and repaint the space markers. Also, the laboratory complex is equipped with two security gates, but because of the difficulty of maneuvering the gates, they are often left open. Individuals with limited mobility would have difficulty opening and closing the gates. Concern has been expressed about having the gates left open and with having to stop at the entrance to open the gate when it is closed during darkness. The lab complex has been approached by Capitol City Police about improving the security by having the gates closed at night. The auto closer would eliminate the security issues and make the gate easier to operate for those individuals having difficulty and provide compliance with ADA
Division of Marine Fisheries	Campus Security Fencing	\$202,900	Installation of perimeter chain link security fencing at the south end of the campus will allow for isolation of this portion of the site and provide a higher level of security. Presently there are no means to deter theft, vandalism or to prevent any form of suspicious activity from occurring, events that have recently happened. The Division is in need of a more secure area to protect state's equipment.
Division of Forest Resources	Improvements to remove asbestos, lead paint, underground tanks	\$136,400	Forty locations with projects include replacement of ACM floor tiles, exterior siding and other suspected asbestos containing materials. Also included are provisions for above ground storage tanks to replace removed UST's.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
NC Museum of Natural Sciences	Upgrade Security System	\$30,000	The Museum security system needs to be updated. Currently, the Museum is the only Facility in the downtown area with a different security system then the other state agencies. This is a safety issue with the Capitol Police and a logistical issue with the Department of Administration-Facilities Services. This funding will support replacement of the current card readers throughout the building and allow for more surveillance equipment needed to protect the exhibits.
NC Zoological Park	Energy Control System Upgrade	\$179,700	This project will upgrade hardware and software for the Zoo's energy control/management system that allows the Maintenance staff to control HVAC and water cooling equipment (life support systems for exotic animals) for maximum efficiency and safety of critical animals and plants. The existing energy control system is nearly 20 years old. The hardware and software needed for routine repairs is obsolete and will be unavailable next year.
Division of Forest Resources	Repairs to Electrical, Plumbing, Heating, Ventilating, and AC Systems	\$400,000	This request is for eight projects that will result in upgrades and replacements to the HVAC systems in various facilities across the state. These improvements will result in more efficient HVAC operations. They range from simple reworking of existing systems to complete replacements.
Aquariums-Fort Fisher	Fort Fisher DDC Expansion	\$136,500	This project will expand the existing system that controls one air handler, the chiller, and boiler. It will increase the efficiency of the HVAC system through closer temperature control and more flexible scheduling of air handlers during after-hours events. The change will also allow staff to monitor and control the life support systems remotely as well as notification in the event of a critical pump failure.
Aquarium at PKS	PKS Aquarium Saltwater Storage and Life Support Upgrade	\$75,000	This project will add salt water storage capacity to the Aquarium at Pine Knoll Shores. Additional water storage capacity will enable staff to complete necessary water changes on live animal exhibits to protect animal health. Current water storage capacity is inadequate and places the animal collection at risk. Salt water will be pumped in from Bogue Sound and treated in two 10,000 gallon tanks before being pumped into exhibits. Components include storage tanks, shipping and installation, concrete pads, ozone filtration equipment, and associated supplies and piping. Larger capacity will also mean less frequent pumping, saving electricity.
Aquariums-Fort Fisher	Cape Fear Shoals Exhibit Air Handler & Chiller Renovation	\$138,600	This request is to install a chiller and air handler to serve the Cape Fear Shoals exhibit and associated area. This is a 235,000 gal tank in which the water is under year-around cooling load. The service area requires constant dehumidification so the 350 ton building chiller is required to operate continuously to maintain the tank temperature and control humidity. Included in this request is the installation of an air handler to serve the east end of the saltwater gallery. Presently there is no air handler serving this area. During times of high visitation the area becomes uncomfortably warm. There is cost savings associated with this project because it will reduce the cost of running the chiller during the winter.
Division of Forest Resources	Improvements to meet the requirements of the ADA act	\$250,000	This request is to select from six projects such as ramp construction, bathroom remodels, parking pads etc. to provide greater access as required by the ADA. This construction will be done at various facilities which do not currently contain ADA ramps or are currently non-compliant and require an upgrade. This category also includes a major ADA renovation to three buildings at our Mountain Training Facility to rework deteriorated concrete ramps and remodel the public bathrooms to insure compliance.
Division of Marine Fisheries	Handicap Ramp	\$65,800	This project consists of installing a handicap ramp with van accessible parking at the hangar to comply with ADA requirements.
Water Quality Lab	Repairs to Floors and Walls	\$88,900	This project includes painting of the interior of the Chemistry lab, repairing damaged ceiling tiles and the cleaning, repairing and replacing of the floor coverings (tile, vinyl and carpet) as needed in the Chemistry and Water Quality labs. Some wall board repair will be needed. The laboratory has not had this type of repair since the building were constructed in 1991. Damage has been done to the flooring by cleaning operations to the extent that some of the areas are trip hazards.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
NC Museum of Natural Sciences	Forestry Museum Renovation Design	\$145,000	The North Carolina Museum of Forestry needs a renovation of its facility to meet fire, safety, ADA requirements, and building code standards. Representatives from the NC Department of Insurance and the NC Office on Americans with Disabilities Act have listed numerous violations. An inspection in 2002 revealed asbestos in the building. The roof, electrical & plumbing systems need replacing. The rock face stucco on the building's exterior is shedding rocks and becoming detached from the building. The estimated project cost on the certified OC-25 is \$2,150,100. This request (cost estimate from the OC-25) is to do design work sufficient for bidding the project.
NC Museum of Natural Sciences	Acoustical Panel Installation	\$95,000	The hard surfaces (cement, drywall, plywood) on wall, floor, ceiling and exhibits results in very loud noise levels in the museum during peak attendance periods. It is difficult to hear the automated exhibits and the public address system. It also contributes to increasing activity level, especially by school groups, that are typically part of peak attendance. Noise escalation reaches the point where both visitor safety and health are jeopardized.
North Carolina Aquariums, RI	Facility Exhibit Area Carpet Replacement	\$31,500	This project is to replace existing carpet in a six year old public aquarium facility which has served over two million visitors. As some of the carpet has had to be replaced over the six years, the carpet that has not been replaced is worn in places, discolored, and ragged at the seams. It has been a concern as trip hazard for the general public visitation.
Aquariums-Fort Fisher	Restroom Renovation at Fort Fisher Aquarium	\$90,800	This project modernizes two public restrooms that were excluded from the 2002 expansion and renovated project. This is the only public area in which there was no work performed and the contrast between the new and old is startling. These restrooms were last updated in the early 1990's. The present incandescent lighting will be replaced.
Aquariums-Fort Fisher	Lighting Upgrade CFS	\$31,200	This project will improve the serviceability of the lights that illuminate the largest exhibit at the Fort Fisher Aquarium. During the 2002 renovation/expansion, the track system designed for the exhibit was removed from the project. Presently, the lights are mounted over the water and there is no way to safely access the lights to service them. This project will install an efficient lighting system that also permits safe and convenient servicing.
North Carolina Aquariums	Flashing, siding, painting repairs	\$96,700	This project is to repair flashing, siding, and repaint the NC Aquariums facility on Roanoke Island. This facility was renovated six years ago. The existing paint is cracking and peeling. The Aquarium needs to be repainted with a guaranteed product that will last for 40 years in coastal conditions.
Division of Forest Resources	Improvements and Renovations at Claridge Nursery	\$539,000	These projects are to perform major renovations to four buildings located at the Claridge Nursery. The DFR nurseries are receipt supported and these facilities are needed in the growth and sales of seedlings to companies and individuals.
Division of Marine Fisheries	Warehouse A/C	\$46,800	Installation of an air conditioning system for the Stock Room within the Warehouse will provide a conditioned environment for stored materials and staff. During the summer months it gets extremely hot and the only means for cooling are fans and nature. This condition makes it difficult to protect stored materials and for staff to perform efficiently.
Division of Forest Resources	Improvements and renovations to improve use of existing space	\$300,000	This request is to choose from among 42 statewide renovation projects that will result in improved use of existing space. These range from paint, carpet, and tile replacement to installation of roll up doors in shops. All of these small projects are intended to extend the life of the buildings and make them more useful in their current use.
NC Zoological Park	Africa Amphitheater Renovation - Planning Funds	\$143,100	This is a major renovation of the Africa Amphitheater and will include providing a large fiberglass floating roof, expended and upgraded seating - including an elevated lawn seating area - ADA compliant access, and improved stage and service areas. This project will greatly improve the zoo's revenue-generating programming, and education capabilities by providing a unique facility for public and corporate events, including education and entertainment functions during daylight and evening hours.
Marine Fisheries	Main Building: Replace Asbestos Floor Tile	\$256,100	The scope of work is to remove and replace existing asbestos floor tile with carpet. As these tiles deteriorate it will become necessary to remove the asbestos containing material and replace with appropriate material.
Marine Fisheries	Main Complex Light Fixtures	\$78,200	The scope of work is to replace 30 year old fluorescent fixtures with new T-8 equipment. This work has been cited as a three year correction priority by FCAP in their April 2003 report.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Marine Fisheries	Main Building: Water Heater Replacement	\$21,100	The scope of work is to replace two existing water heaters with LP equipment. The existing water heaters have been in use since 1972, run on three phase electricity, and are not economical to use. This work has been cited by FCAP as a three year correction priority in their April 2, 2003 report.
Division of Forest Resources	Historical Restoration	\$4,100	Restoration of the Duckett Tower as a historical preservation. Work will involve painting, wood step replacement etc. as necessary to restore the site to it's previous condition.
Marine Fisheries	Main Complex: Sidewalk, Curb, Gutter Repair	\$64,700	The scope of work is due to the installation of the access road and parking lot in front of the main administration building. There is a problem with drainage that ponds in front of the main entrance way. Recommend the installation of a sidewalk along with a curb and gutter to eliminate the problem. Associated with this curb, gutter and sidewalk work, grading, filling and compaction will be required.
Marine Fisheries	Main Complex: Parking Lot Repaving	\$18,100	The scope of work is to repave selected asphalt areas, repair curbing and to reapply striping. This work has been cited as a five year correction priority by FCAP in their April 2003 report.
Marine Fisheries	South River Road Construction	\$20,100	The scope of work is to include installing a rock road on an existing dirt road complete with ditching, grading and applying crush-and-run for 2000 linear feet. Large trucks and equipment traveling on the existing road are accelerating wear and damage. North Carolina Department of Transportation has inspected the site, contacted land-owners and provided the estimates herein. Work is taking place at the South River facility.
Division of Forest Resources	Improvements to roads, walks, drives, utilities, infrastructure	\$251,900	This request involves grading, stone driveways and parking at 44 locations throughout the state. Repair of these roads will result in less damage to both state owned as well as private vehicles. Erosion and runoff will be greatly reduced by the placement of these materials.
Aquariums-Fort Fisher	Perimeter Fence Construction	\$22,100	This request is to complete the installation of security fencing around the remainder of the aquarium's property. We currently have approximately 1500 feet of boundary that is not secure. AZA, the group that accredits aquariums and zoos, listed this as a concern in their last site inspection. Their concern is the possibility of vandalism that may threaten the welfare of the animals.

Department of Environment & Natural Resources Total \$7,935,800

Department of Agriculture & Consumer Services

Veterinary Division	Rollins - Convert Chem Lab to BSL 2	\$247,500	Approximately 1,700 square feet of existing chemistry laboratory will be renovated to create a biosafety level 2 laboratory suite. Most existing cabinetry will be removed. All existing recirculated HVAC equipment and ceiling will be removed. Leak tested high pressure insulated ducting will be used, with thimble room exhaust. New roof mounted HVAC equipment will be installed through 2 existing roof penetrations, which will include an air supply unit and a separate exhaust unit for single pass air delivery and exhaust, with supplemental humidification for winter. Steel framed drywall walls and ceiling will be utilized, sealing drywall to floor with antimicrobial caulk. Existing power and plumbing drains and water supply are sufficient for renovated space. Walls and ceiling will be fully sealed with epoxy paint. Any electrical, plumbing or HVAC supply/exhaust penetrations must be sealed to pass full laboratory suite leak test. Existing windows must be sealed with neoprene gaskets and be bolted closed, caulking/sealing around entire perimeter and between window units. Floor will be a single seamless membrane. Suite must pass independent leak testing. NOTE: \$250,000 was provided in 2006 Budget.
Veterinary	WNC Animal Disease Laboratory - Sprinkler System	\$102,482	To comply with NC Dept of Insurance life safety requirements, a sprinkler system is required to be installed for the building.
Plant Industry Division	Old Health Building - Supplemental Funding	\$162,112	Old Health Building Repairs and Renovations Phase I is currently under construction. Two unanticipated conditions have been encountered during construction, Avian Excrement in the Attic Space and Damaged Ornamental Metal Work. The estimated cost to mitigate these items exceeds the available project contingency. This request is for the estimated costs of these unanticipated items. Supplemental funds will allow the project to proceed with the original contingency in place for use during the remainder of construction.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Agronomic Division	Energy Conservation Improvements for the Eaddy Building	\$294,246	The major goal of the proposed project is to improve the energy efficiency of the Donald W. Eaddy Building. To accomplish this goal, the following objectives must be met: (1. Replace 13-year old chiller with more efficient unit (2. Replace leaking preheat coil on one air handling unit (3. Replace outside air dampers on all air handling units and (4. Replace 10 windows with broken thermal seals. In the past 2-1/2 years approximately \$40,000 has been spent on repairing the old chiller. The preheat coil on the AHU leaks year round. The outside air dampers have rusted in a permanent open position. The expected impacts of the repairs are improved energy efficiency and a noticeable reduction in energy costs year round. 5). Roof repair - During the weekend of June 10-11, 2006, there was a major roof leak that flooded the nematode receiving area of the building. That week emergency roof repairs were done; later, a more comprehensive repair project was initiated to replace deteriorating roof seams and to redo drains. Funds were depleted before completion of the project. Completion of the roof repair is necessary to prevent damage to the building and its contents and to avoid mold infestation.
Food & Drug Protection Division	Constable Lab - Humidity Reduction Coil & HVAC Study	\$201,484	Humidity Reduction Coil - The make up air for the Constable Lab is taken directly from the outside to prevent drawing a vacuum on the building when the exhaust hoods are operating. During periods of high humidity, many lab procedures cannot be performed because of the high moisture. Fertilizer samples cannot be ground because of moisture. The humidity is also very detrimental to the expensive equipment. NOTE: Humidity Reduction Coil was funded by 2005 R&R. Funds were diverted to a more urgent need. HVAC Study - A designer study is needed to evaluate and make recommendations to correct the entire HVAC requirements of the facility.
Food Distribution	Roof Repair Butner Warehouse	\$499,587	The roof at the Butner facility needs replaced. The Facility has numerous leaks. The leaks are endangering USDA food commodities that are stored in the warehouse and especially in the freezer. Millions of dollars of food are moved through the warehouse which cannot be lost due to water damage. The scope of the work includes the removal of water saturated foam roofing, underlying membrane and insulation to the structural deck and replacing with new insulation board and white 60 mil TPO membrane for the warehouse and freezer roofs.
Emergency Programs	Agriculture Building - Mezzanine Renovation, ADA Restrooms, Security	\$178,517	Mezzanine improvements necessary to accommodate increased demands on and support the operation of the Multi-Hazard Threat Database, these support staff and facilities, and the response capabilities of the Division and Department. The work will be designed and carried out with minimal interruption or risk to data and communications operations of the Division and the Department. Provide secure storage space for emergency response supplies and equipment. Address NCDOL concern by providing one set of compliant ADA restrooms. Address security with camera system for all exterior entrances and certain interior spaces.
Research Stations	APHIS Building Reroofing - Oxford	\$190,923	The APHIS Building is a two-story office and laboratory. The present roof is a combination of tar, gravel and asphalt paper. The surface is brittle and bubbling with some bubbles as high as three inches. These bubbles were created by intruding moisture continuously vaporizing and forcing the surface upward. The roof has been patched numerous times and now needs to be replaced entirely before water leaks lead to interior surface and structural damage. This request is for the replacement of the composition roof.
Research Stations	Research Infrastructure - Tidewater & Cherry	\$317,933	The Tidewater Research Station has several needs including the repair of the interior of nine swine buildings due to the physical and chemical environment of hog houses being very harsh. In addition, grain bin and elevator repairs are needed due to severe corrosion. Three linear irrigation machines are in need of repairs due to age and the electrical system in the shop needs to be repaired and upgraded in order to meet code. At Cherry Research Farm, repairs are needed to the milk parlor in order to provide protection of the milking equipment during the winter. Roll-up doors need to be installed on entrance and exit ends in order to provide protection from freezing during the winter and for ventilation in the summer.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Standards	Roof & Ventilation at Motor Fuels Lab and LP GAS Shed at Standards Lab	\$99,900	The NC Standards Laboratory needs to enclose the former LP Gas shed to create climate controlled storage. Storage space is very limited within the laboratory as new tests have been added to our workload. The Motor Fuels Lab's roof is leaking in several areas. In the front office several ceiling tiles have fallen due to getting wet. If the rain is heavy, floors in several rooms get wet and testing must be stopped so that equipment can be covered or moved to avoid damage. The Motor Fuels Lab has 2 lab areas with inadequate ventilation. The room that houses the cetane engine currently has a very small vent immediately above the engine and no window to aid in ventilation.
Marketing/ WNC Agricultural Center	Barn Roof Replacement - WNC Ag Center	\$607,322	The roofs covering the 100 stalls in "E" Barn and 48 stalls in "F" Barn are in need of replacement. The roofs are very rusty and pitted causing many leaks. Water has caused many of the purlins and roof joists to rot. The roof is very unsightly and a danger to employees as they must walk on the roof to try and repair leaks. The gutters are inadequate for the amount of water that sheds from the roof, causing the alley ways of the barn and many of the stalls to take on water during heavy rains. The existing roof should be replaced with a minimum 24 gauge Standing Seam roof system.
Veterinary Division	Critical Repair and Renovations Items - Veterinary Diagnostic Lab System	\$420,779	Description of project: Items are general maintenance and critical to the ongoing operation of these facilities. Items addressed are as follows. 1). Rose Hill - condensing/compressor unit (16 ton for addition to lab built in 1987). 2). Rollins Lab - Economizer Control Unit replacement for the chiller system to regulate fresh air intake allowing for greater energy efficiency. At the current time the Economizer Control unit is inoperable resulting in substantial energy loss 3). Rollins Lab - Replacement of 125 ton chiller due to age of unit. Replacement of unit will allow for greater energy efficiency. 4). All Labs - Asphalt sealing and striping in order to prevent deterioration. 5). Rollins Lab, Rose Hill Lab and Monroe Lab - Hoist replacement. 6). Rose Hill Lab, Elkin Lab, Monroe Lab - Repainting of exterior doors and A-frame hoist at the Elkin Lab. Monroe, Rose Hill and Elkin labs necropsy ceiling need painting due to flaking paint and staining. 7). Rollins Lab - Roof replacement approximately 26,300 square feet of roof. Roof is 21 years old and is starting to leak.
Marketing	Roof & Ventilation System Repairs & Misc. Improvements - WNC Farmers Mkt	\$284,694	Truck shed # 4 at the WNC Farmers Market was constructed in 1988 and the enamel is beginning to crack and rust is visible on the roof. A recoating sealant system needs to be applied before leaks occur. The exhaust fans and louvers in the two retail buildings are over 25 years old and do not work properly to provide proper ventilation in the summer months. The driveway around two wholesale buildings needs to be repaired and repaved. The asphalt has cracked and is deteriorating due to heavy tractor trailer traffic. The bathroom next to Truck shed # 4 needs to be renovated. Showers that are not being used need to be removed and toilet facilities added. More bathroom facilities are needed for this area of the Market.
NC STATE FAIR	Infrastructure Renovations - State Fairgrounds	\$1,589,619	One of the major outdoor food concession areas on the grounds is in poor condition. There has been no major renovation to the area since 1967. Codes and standards have changed many times and none of the services provided meets even minimum standards. The water system does not have enough volume to provide ample water to concessions as is with no backflow prevention. The sanitary sewer system is piece meal at best and doesn't have the much needed grease trap. The electrical system has long lived past its life expectancy. The 15kv feeders should have been replaced 20 years ago. Water and sewer will need to be upgraded to be in compliance with current standards.
State wide for Divisions	Generator Connections - Statewide	\$75,000	The Department of Agriculture and Consumer Services has two emergency portable standby generators that will be made available to critical facilities in case of man made or natural disasters in order to keep the critical operations in operation. Funding is needed to allow for the installation of transfer switches or other safety devices at the facilities in order to operate the generators. The facilities provide critical diagnostic, Laboratory service and support facilities across the state. In the event of a disaster the emergency the portable standby generators will be transported to the critical facilities, install the necessary electrical/safety devices in order to operate the generator in order to keep critical operations in operation.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Research Stations	Roof Repairs & Renovation of Facilities - Oxford & Peanut Belt	\$146,170	The Oxford Tobacco Research Station recently acquired federal buildings that are in need of roofing and structural repairs in order to prevent structural damage. The metal roofing has started leaking and there are several interior walls that have severe scaling, chipping and peeling caused by water damage. At the Peanut Belt Research Station, the electrical service needs to be upgraded in the office to meet current codes according to a report issued by a building inspector for the State Fire Marshall. In addition, the office building needs to be renovated to meet ADA requirements for wheelchair access and entrance doors need to be replaced w/doors that swing out for an emergency exit. Shop lighting also needs to be updated.
Research Stations	Repairs to Numerous Facilities - Horticultural Crops & Mountain	\$131,333	At Hort. Crops RS, the fertilizer & pesticide bldg needs to have the old concrete slab removed and replaced w/ a pad that slopes to a collection pit. A 24 ft x 30 ft pole barn addition needs to be constructed to the existing building to keep rain out of the storage pit. The purpose is to provide an environmentally safe way to place pesticides into sprayers. At Mountain RS, three tobacco barns need exterior wood siding repairs, ventilation doors need repairs and all three buildings need painting. Roof and sides of Lounging Barn need replacing to prevent damage to bulk feed and equipment. The Maternity Barn needs roofing repairs and painting to prevent damage to equipment, lumber, livestock supplies and hay.
Plant Industry Division	Greenhouse Repair & Renovations	\$200,861	This project is expected to permit NCDA&CS to make critical repairs to the NCDA&CS PID Greenhouse Facility (Blue Ridge Rd). Numerous leaks in the sheathing and gutters exist allowing water to pour over electrical control and panels which could lead to accidents and injuries of individuals or damage to structure. Replacement of sheathing on entire greenhouse (roof, walls and vents), repair or replace gutter system and modify/replace vent and cooling system. The current sheathing is deteriorating and has far exceeded life expectancy. Numerous repairs have caused weak areas in the vent system. New evaporative cell will provide a more efficient method of cooling and venting will allow better growing conditions as well as lower cooling costs.
Marketing	Water Distribution System - State Farmers Market	\$108,950	See attached sheet. This project request is for the testing, repair, replacing and addition of water valves that control the 8-inch water main throughout the State Farmers Market property. Due to water line break in May 2006 the State farmers Market was unable to isolate the break which required shutting off the water at the main service thereby terminating water facility wide which includes three permitted food service facilities. The termination of water supply also compromised the fire protection and terminating water supply to all restroom facilities at the Farmers Market. These repairs will allow for isolation of the water mains and supply reducing the impact to facilities when a break or other interruptions occurs.
Plant Industry Division	Old Health Building - Repair & Renovations Phase II - Planning	\$160,000	Phase II funding will permit NCDA&CS to replace existing heating and cooling units, painting for all interior walls and replacement of carpet in the currently occupied portions of the facility. As part of third floor renovations, this project includes removal and replacement of all carpet and renovation of the third floor HVAC system due to environmental contamination (avian fecal contamination) in the attic. Additionally, there will be installation of new electric and data circuits and installation of modular office and work environments for staff. The project also includes renovation of the NCDA&CS Seed Lab extraction system and installation of ergonomically approved work stations for laboratory staff. This project will include renovation of the second floor to establish a meeting/training area to facilitate Divisional work. Mold abatement will be a part of this entire project.
Food & Drug	Constable - Standby Generator	\$310,745	The installation of a Diesel Stand By Generator is needed to power the Constable Lab during power outages. The Stand By Generator would maintain essential lab samples which are stored in freezers and refrigerators, and maintain ongoing lab processes on the second floor of the Constable Lab. The Stand By Generator would also maintain heating, ventilating, supplying, and exhausting air in the Constable Lab during power outages.

Department of Agriculture & Consumer Services Total \$6,330,157

Department of Commerce

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Wanchese Seafood Industrial Park	Marine Engine Building Sprinkler Upfit	\$173,500	An overhead sprinkler system will be added in the warehouse portion (4,000 sq. ft.) of the building. This project is being required by the State Fire Marshal's office to meet code requirements.
Wanchese Seafood Industrial Park	Renovation/Improvements to Wastewater Treatment Equipment	\$935,900	The NC Seafood Industrial Park Authority wishes to activate the Wanchese Seafood Industrial Park's wastewater treatment plant to alleviate dependence on individual "temporary" septic tanks. The age and condition of machinery mandates that much of it be rebuilt, updated, or replaced completely. The system's pump systems, clarifiers, filter systems, collection system, and other equipment will be analyzed, updated, and replaced if necessary. This project includes wastewater treatment equipment only, not the building on site.
Wanchese Seafood Industrial Park	Roof and Siding Replacement - WWTP Building	\$147,700	This project was part of another, earlier roof and siding replacement project. A funding shortfall required this building be deleted from the earlier project. Approval of this funding will allow much needed siding and roof replacements to move forward to avoid further building deterioration.
Wanchese Seafood Industrial Park	Lighting Improvements	\$131,100	This project will replace original overhead lighting (fluorescent tubes) in the warehouse areas of three 5,000 sq. ft. metal buildings in the Wanchese Seafood Industrial park (Buildings on Lots 28a, 28b, 29a) with more modern and easily maintained metal halide low bay fixtures.
Wanchese Seafood Industrial Park	Office Renovations - Lot 29a	\$369,400	This project will upfit an existing building with needed offices and supporting personnel spaces.

Department of Commerce Total \$1,757,600

Department of Health & Human Services

Central Administration	Life Safety Code Reserve - Statewide	\$1,175,000	The purpose of this project request is to allow the Department of Health and Human Service, through the Division of Property and Construction to make required corrections to life safety deficiencies to provide continued safe environment for occupants at any of the Department's institutions that come up frequently throughout the year. Repairs may include fire alarm, generators, electrical corrections, structural and others that if not corrected, may cause harm to the well being of the occupants.
Central Administration	General Building Repairs Reserve - Statewide	\$1,450,000	The purpose of this project request is to allow the Department of Health and Human Service, through the Division of Property and Construction to make required building systems upgrades and general building repairs to provide continued safe environment for occupants at any of the Department's institutions that come up frequently throughout the year. Repairs may include air conditioning, heating system, plumbing repairs, electrical upgrades, ADA corrections, structural, repair and replacement of interior finishes, windows, doors and exterior envelope.
Central Administration	Paving Reserve - Statewide	\$1,450,000	The purpose of this project request is to allow the Department of Health and Human Service, through the Division of Property and Construction to make required paving and sidewalk repairs and/or replacements at any of the Department's institutions that come up frequently throughout the year. The Department has had very few paving projects funded in the years past and many institutions have paving that is breaking up and falling apart. This will allow us to go in a make some much needed improvements at locations across the state.
Central Administration	Cooper Building Vital Records Fire Suppression	\$397,478	This DOA building is home to DHHS / Division of Public Health. The area of concern is the vital records storage area. This project is to modify the storage area to obtain a rated space and install a fire suppression system to protect the paper records.
Dorothea Dix Campus	Building System Upgrades - Campuswide (Part 1 of 2)	\$2,250,000	Project consists of building systems upgrades and general building repairs needed to provide continued safe environment for occupants. Project includes multiple buildings on the Dorothea Dix Campus, including the Ashby, Broughton, Brown, Clark, Edgerton, Hargrove, Haywood, Kirby, McBryde East, Scott, Williams and Wright Buildings. Work includes Plumbing, HVAC, Electrical, Accessibly upgrades, repair and replacement of interior finishes, windows, doors and exterior envelope.
Julian F Keith ADATC	Campus Wide Paving Upgrades	\$561,538	This project consists of repairing existing parking lots and driveways, installation of new ADA parking and handicap ramp to comply with NC Accessibility Code for patient family access. Currently patient family visitors must park over 600 feet from visitor facilities. This project will restore deteriorated parking lots and provide for access to visitor facilities within code required 200 feet.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Walter B Jones ADATC	Dorm Improvements	\$968,287	Project consists of improvements to approx 3000 SF of support spaces in patient housing buildings, including nurse's stations, charting rooms, medication rooms, nourishment rooms and housekeeping. Also included are replacement of exterior soffits and windows which contain ACM, fire alarms and upgrades to patient bathroom areas for accessibility. These renovations are needed to enhance patient care, meet accessibility requirements and replacement of equipment at end of its service life.
O'Berry Center	New Heating Plant	\$250,000	With the passing of a bill (07/2006) to build a new Eastern Region Psychiatric Hospital to replace Cherry Hospital, a new heating plant must be built prior to the closing of Cherry Hospital. Currently high temperature heating hot water (~320°F) is produced and pumped from Cherry Hospital to O'Berry Center for their needs. This project will provide for a new low temperature (200°F) plant to be built on the O'Berry campus to serve their heating needs. Project will also include changing out heat exchangers in each building for the new water temperature.
NC Special Care Center	Renovate Floors 6 and 7 (Part 1 of 2)	\$750,000	Project consists of the repairs and improvements needed for staff support spaces and offices on the 6th and 7th floors. In addition, life safety improvements will be provided for exit stairs and exit discharge.
Western NC School for the Deaf	Reroof Jeter, Rankin and Barn	\$461,567	Jeter Hall: Full Roof Replacement of "Gravel Surfaced Built-up". Roof is currently 18 years of age. In Poor Condition. Rankin Hall: Full Roof Replacement of EPDM and Fiberglass Shingles. Re-Roofing was recommended in 2000. Condition/POOR BARN: Full Roof Replacement with 26ga. Metal roof panels. Current age of Metal Roof 66 years. Rusty metal with pin holes.
Black Mountain Center	Emergency Generator Upgrades	\$497,604	Provide 100% emergency power for Administration, Raspberry, Gravelly and Moore buildings. (750kW Stand by Gen.)
Murdoch Center	Reroof Alpine, Infirmary and Administration	\$320,000	The scope of this project is to replace the existing flat roofs on Alpine (4,80 SF), Administration (1,882 SF), Infirmary (19,228 SF) and the Medical Clinic Breezeway (1,450 SF). These roofs recently failed. See attached.
Caswell Center	Building System Upgrades to Willow Cottage	\$723,513	Renovate client living space to meet life safety codes. Install partition walls in open bay area for individual bedrooms. Cut exit door in new hallways for egress. Install ramps at these doors. Install central heat and A/C system. Install chill water lines from Central Chiller Plant. Renovate bathrooms to more efficiently handle handicap population. Extend fire alarm system and add emergency lights and exit signs. • Entire building will be completely sprinklered utilizing a wet pipe sprinkler system. A new underground fire service line connected to the campus water supply network will be provided. Renovate living areas to meet accessibility requirements.
J. Iverson Riddle Developmental Center	Renovate Willow Cottage Bathrooms	\$821,610	Willow cottage, which houses nonambulatory clients was constructed during 1967. No major renovations have occurred in this building. Because the current bathroom configurations/arrangements are not ergonomically efficient, back injuries and subsequent workmans-comp claims are frequent. During 2004-2005 JIRDC paid \$931,941 in workmans-comp claims. Additionally, as verified by video camera, some sections of the sanitary sewer piping is in poor condition. Because the building floor is a slab-on-grade, sewer piping repairs constitute a significant percentage of this request.
NC Special Care Center	Ambulance Entrance Extension	\$129,825	This project is will extend the existing ambulance entrance covered (open) area by adding 1,280 SF of space in which to load and unload residents. Currently, residents who are ambulatory are exposed to the elements (rain and snow) and frequently rush to get aboard transport vehicles. There have been numerous resident accidents that have occurred because of this unsafe loading. This expansion will provide for a safer loading and unloading environment and will provide addition needed space to accommodate the facility's transport vehicles and ensure adequate space for emergency vehicles to provide immediate and safe access to this facility. Included in this request is the replacement of a wheelchair ramp to the new area.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Caswell Center	Building System Upgrades to Cypress Cottage	\$723,513	Renovate client living space to meet life safety codes. Install partition walls in open bay area for individual bedrooms. Cut exit door in new hallways for egress. Install ramps at these doors. Install central heat and A/C system. Install chill water lines from Central Chiller Plant. Renovate bathrooms to more efficiently handle handicap population. Extend fire alarm system and add emergency lights and exit signs. • Entire building will be completely sprinklered utilizing a wet pipe sprinkler system. A new underground fire service line connected to the campus water supply network will be provided. Renovate living areas to meet accessibility requirements.
Wright School	Building System Upgrades (Part 1 of 2)	\$375,000	The building is in need of overall repairs and upgrades in order to provide a better living environment, increased life safety and insure the longevity of the facility. Work will include replacing egress doors, add provisions for better accessibility, upgrade fire alarm system, add sprinkler system, replace roof, replace windows, and upgrade mechanical and electrical systems.
Dorothea Dix Campus	Edgerton Building Upgrades	\$690,971	Provide a hydraulic elevator with three landings, construct an exterior elevator shaft with connecting corridor, install ramps to meet accessibility requirements, connect elevator controls to existing FACP. Complete interior corridor improvements to meet LSC. Remove sprayed-on ACM textured ceiling finish from approximately 50 rooms.
J. Iverson Riddle Developmental Center	Renovate Cedar Cottage	\$4,660,000	Cedar cottage was constructed in 1963 and except for life safety code renovations has not been altered from the original design. This building houses non-ambulatory patients and is not conducive to current care and treatment philosophy. Direct care staff are required to lift approximately (60) bed-ridden patients several times each day in order to provide essential care. As a result frequent back injuries and subsequent workman compensation claims are encountered. This project would alter the interior of the building and existing support structure so that remote-controlled, motorized equipment could be installed to move patients between bedrooms, bathrooms, dining rooms and dayrooms. Roof would also be replaced.
Governor Morehead School for the Blind	Building System Upgrades to Five Buildings	\$2,803,508	This project consists of upgrading the HVAC, electrical and plumbing systems within these buildings. Sprinklers are required in some of the building attics due to wood construction. Past experience in other buildings indicates that a fire pump may be required. Project will also update toilet rooms to meet ADA requirements.
Eastern NC School for the Deaf	Alford and Mayfield Roof Replacement	\$285,633	This project will include the replacement of the existing roofs of both Alford Hall and Mayfield Hall.
Murdoch Center	B&G Chiller Replacement and Medical Wing HVAC Upgrades	\$1,011,539	B side and G side chillers chill water for air-conditioning all the cottages around the loop and a majority of the administrative buildings on the hill. Replacing the two chillers will update the refrigerants to current environmental standards. We will save on monthly electricity bills due to an increase in efficiencies. Murdoch Center will also save maintenance costs and downtime due to the extended age of the chillers. The scope of the project also includes replacing the cooling towers. These towers are original to the air conditioning of the campus. New towers will better match chiller loads and save in maintenance costs. The scope also includes connecting the chiller controls to our campus wide energy management system.

Department of Health & Human Services Total \$22,756,586

Dept. of Juvenile Justice and Delinquency Prevention

Youth Development/ CA Dillon	C.A. Dillon YDC/ Bathroom ceiling modification and install security grilles.	\$200,000	Security grilles are needed to accommodate current openings (retrofit) currently on site. With the retrofitting, the stability of the security grilles will remain in tact and will eliminate tie-off potential from the youths which will greatly enhance suicide prevention. The bathroom ceiling tiles are currently worn out and need to be replaced. This will eliminate potential hazards to the youth as well as greatly improve energy efficiency for the building.
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2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Youth Development/ Swannanoa	Swannanoa/DOC Campus Transfer	\$990,000	Renovation to Sweat, Arledge Cottages as part of the Swannanoa/DOC Campus Transfer project. This project will provide funds to bring buildings up to specifications for transfer to DOC. The necessary projects include adding smoke detectors, Harding Ceiling for rooms, door replacement, asbestos remediation, new phone and data drops for communications. The replacement of the HVAC system and upgrade of utility services campus wide, as well as extensive electrical work to bring the campus up to spec for DOC personnel use.
Youth Development/ Samarkand	Samarkand YDC/ Add HVAC at Samarkand YDC, Nordan Cottage.	\$325,000	Replace the existing Heating system with a Central HVAC system. Currently there is no central air system in Nordan cottage A, B or C units. The Heat is distributed in the youth rooms from piped (safety concern) radiator units. This project also would upgrade the electrical and fire alarm systems.
Detention/ New Hanover	Detention/New Hanover, Request Septic system upgrade.	\$150,000	The current septic system is failing and getting worse. The back fields have sewage coming to the surface and the front fields that surround the facility are not far behind. This upgrade will also allow us to fill in holes and correct erosion problems behind the detention building.
Detention/ Richmond	Richmond Detention new roof, sidewalk and canopy, lead paint abatement	\$400,000	Request new roof, sidewalk canopy, siding, lead paint abatement, fencing, and repaving at Richmond Detention. This project will allow the department to reduce the amount of dead space within the recreation areas for the youth that we serve. Reducing this area will greatly increase security and control of the served youth and reduce the ability for escape. There is a history of leaks and repairs. The youth are exposed to rain when going to school bldg, gym and cafeteria, siding has been blowing off in various locations, roads and parking area are in very poor conditions.
Youth Development	Renovations at 5 Multipurpose Juvenile Homes Storm water drainage issues	\$225,000	Interior and exterior renovations at multipurpose juvenile homes located in Hertford, Chowan, Craven, Wayne, and Robeson Counties. Unusual construction or repair problems. Site conditions have septic and storm water drainage problems. The project is also needed to address ongoing maintenance and repair issues and maintain a safe and secure environment for the youth the department serves. Safety and security and building codes issues. Roof replacements (possible metal at some locations).
Youth Development/ CA Dillon	Asbestos Removal and New Roof at C.A. Dillon YDC, Admin& Sch. Bldg.	\$500,000	New roof and asbestos removal and siding replacement at Administration Building, sand blast exposed beam, paint gymnasium, renovate Carpentry Shop to provide offices in academic school building.
Youth Development/ Stonewall	Road Repairs - Stonewall Jackson YDC	\$235,000	Repair and resurface front parking lot at the main entrance. Also repair and resurface the drive around the security gate and rear parking lot. Current asphalt paving has surface erosion, cracks, patches and weathering problems. Dirt section near the gym is not adequate for traffic. Catch basins and storm drains are inadequate. Fence relocation to increase security and safety.
Detention/Pitt, New Hanover, Cumberland, Gaston	Electrical repairs at four Detention Centers	\$250,000	Electrical system improvements at Pitt, fire alarm upgrade at Pitt, install emergency generators at Pitt and Cumberland Detention Centers. Install light dimmers in youth rooms at New Hanover, Gaston and Cumberland Detention Centers.
Youth Development	Buncombe Detention Replace Boiler, Pave Road, Emergency Generator, Classroom Trailer, Intercom System	\$150,000	This project will replace existing boiler that is beyond its life expectancy. Continual repairs and service calls makes it is more cost effective to replace. The entry roadway and parking area has been in disrepair for years with existing pot holes and ditches. For safety and security backup the department has proposed to provide emergency generators at all detention centers. The addition of the classroom trailer is necessary due to substandard and deteriorating conditions that are deemed unrepairable. An electronic intercom system that will prevent staff from having to manually key visitors through the front gate.
Youth Development/ Dobbs	New Roof at Dobbs Cafeteria	\$200,000	This project is necessary because the built-up roof portion of the building is nearing the end of its useful life. Dispersion of the gravel surface and some "soft spots" are noticeable. This project will remove all roof materials to expose structural deck and repair, install new flashing, expansion joints and drains as needed, and install membrane over new insulation (minimum R-20) at minimum slope of a quarter inch per foot.
Administration/ Butner Trn Facility	Butner - New Roofs for Laythan Bldg., Dorm E and F, Asbestos abatement	\$300,000	This project provides for the roof replacement for Laythan Building for Dormitories E and F. Replacement of asbestos ceiling tiles in Laythan Building for dormitories E and F.

2006-07 Summary of Recommended Repair and Renovation Projects

DEPT/DIVISION	PROJECT	AMOUNT	DESCRIPTION/JUSTIFICATION
Detention	Demolition of Gardner & Leonard Halls - Samarkand YDC	\$420,000	Requesting to Demolish Gardner and Leonard Halls at Samarkand YDC. This request is to remove abandoned buildings that create life safety and security concerns. Life safety and security was the criteria used to recommend this project. The buildings are not feasible for renovation or future use. The buildings contain asbestos and lead.
Youth Development/ Dobbs	Road Repairs - Dobbs - YDC	\$65,000	Repair and resurface the roadway. This project is required because the current asphalt surface is weathered and has exposed aggregate and moderate linear and alligator pattern cracks. The project will allow for removing wearing surface as required to remove loose material and establish a solid base course. Paving of the entire road with new wearing surface suitable for automobile and service truck traffic.

Dept. of Juvenile Justice and Delinquency Prevention Total	\$4,410,000
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GRAND TOTAL	\$120,003,762
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Availability	\$120,003,762
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Balance	\$0
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