Administration	Allocation
New Revenue Building - Electrical System Upgrades This project will make a number of repairs to the New Revenue building backup electrical power system. A recent electrical maintenance test for the downtown complex uncovered problems in the building, such as the computer center backup power is unreliable and has falled in the past during tests. Repair work will involve installation of flow switches and repairs to the existing backup systems and a small backup generator.	190,000
Swannanoa Hazardous Waste Site Cleanup - Ph II This project cleans hazardous waste at the Swannanoa site. Based upon testing and evaluation, the site will have to be fenced off and the soil capped with concrete to prevent further runoff of hazardous materials. Additional testing will also be required to determine the extent of contamination and additional remediation work.	1,000,000
Downtown Complex-Main Switchboard Repairs This project repairs a number of serious deficiencies that were noted during testing, including some defective main circuit breakers that have potential to interrupt power throughout affected DOA buildings. Since repairs will impact power to buildings, work must be performed on weekends.	360,000
Archdale - Sprinkler System and Exit Sign Repairs This project will correct Building and Life Safety Code violations that have been noted at Archdale Building by DOI and DOA as a part of the required annual building safety inspections. This project provides for the required repairs to these life safety systems.	337,000
Old Chiller Plant — Equipment Upgrade This project updates unreliable and failing equipment in Chiller Plant #1, which provides cooling to nine DOA Buildings and chilled water at night to charge the underground storage tank for cooling capacity required the following day. The updated equipment includes new chillers, pumps, piping, electrical, and controls. The current equipment often fails to automatically start and requires a service technician to manually start the chillers, reducing cooling capacity and impacting the guaranteed energy savings under the ongoing Performance Contract with PEPCO. Work also includes improvements to the underground chilled water storage tank to allow it to be tied directly to main loop and to relocate pumps and pump controllers to location above grade. In the present below grade location, these pumps and controllers continue to fail impacting the ability to use the required chilled water storage capacity. Work also includes installation of a new cooling tower for the new chillers. PEPCO project only replaced two of the three required cooling towers.	3,500,000
Bath Building - Renovations on Floors 1-3 / Elevator Replacement This project involves selective demolition and renovation on the second and third floors to improve space efficiency. Improvements to the elevators, electrical systems, mechanical systems, and fire alarm systems are needed to meet system codes.	1,160,000
DOA Roof Repairs - Admin, Dobbs, New Education This project will repair leaking roofs at the Administration, Dobbs, and New Education buildings. The project will also repair and waterproof leaking metal wall panels at Dobbs and New Education.	337,000
Administration Building Major Renovation - Ph I This project will renovate the Administration building. Renovation work will include abatement of friable sprayon asbestos, correcting life safety deficiencies, and creating ADA compliant spaces.	4,000,000
Administration Building - Replace Fans in Air Handling Units This project replaces the supply fans that have run continuously for forty-seven years. The fans have lost 30% of design cfm; and the bearings, shaft and impeliers are in bad shape.	277,000
Commissioning of Downtown Government Complex Controls This project will address the controls for the Chiller Plant Number 1, New Education, New Revenue, Justice, Dobbs, Archdale, Agriculture Annex, Labor Buildings, and the Old Chiller plant. The sensors, control panels and differential pressure, humidity sensors, supply sensors, return sensors, and associated controls on these buildings have to be calibrated.	468,000
Albemarie Bldg - Cooling Tower Replacement This project will repair the cooling tower, which has deteriorated due to rust and leaking. Work requires new VFD, new electrical, and extra height capacity crane to reach roof.	422,000
Main Chiller Plant Cooling Tower Motor This project will be for a spare fan and motor for the colling tower. It is a long lead time to purchase the items, and if one is lost, then cooling capacity is lost for half of the downtown government complex.	75,000

	Allocation
History Museum Fire Alarm Renovation - Replace Head End Equipment This project will replace the obsolete fire alarm panel, all smoke detectors, all notification devices; and the shunt trip and smoke evacuation control circuits will be then reconnected and tested.	140,000
New Revenue Fire Alarm Renovation - Replace Head End Equipment This project will replace the obsolete fire alarm panel, all smoke detectors, all notification devices; and the shunt trip and smoke evacuation control circuits will then reconnected and tested. A voice notification system will be added that allows specific messages to be distributed over the speaker system.	233,000
NC Museum of Natural Sciences Escalator Modification This project is to upgrade the six escalators with a skirt deflection system. Skirt deflection is a brush type attachment that is 3-4 inches off each step unit on the left and right side. This added safety feature has been developed within the last ten years as a result of the increasing number of injuries on escalators. This safety feature brushes the foot or leg so you step away from the actual mechanism. Individuals with rubber soled shoes have been standing on this 1/4" gap between the skirt and the step and the rubber of the shoe gets hot and the pulls the shoe rubber when continuing on, thereby causing a life safety hazard.	42,000
Labor Building Replace AHU and Controls This project replaces the air handling unit in Labor Building. The coils are fouled and the controls are not functioning properly.	600,000
Replacement Steam Convertors and Condensate Stations - Admin, Dobbs, Archdale This project will address issues with convertors and condensate stations at several buildings. The convertors are not maintaining proper temperature set point, pumps and steam valves are leaking, and VFD controllers are damaged. Condensate pumps are leaking and controls are failing. Projects will replace all these components.	304,000
SBI Cooling Towers Replacement This project is to replace two cooling towers and two water heaters. The towers are leaking; the hot and cold decks are leaking due to corrosion. The water heaters themselves are also rusted and leaking.	358,000
New Revenue Building Space Renovations This project will build an energy efficient wall to surround large scanners. Scanners must be operated at temperature of +/- 70 degrees. They currently occupy 700 square feet adjacent to open space of 2400 square feet. Encolosing and controlling the 700 square foot area with lower than normal temperatures for operation of the scanners keeps them running efficiently, minimizes unnecessary cooling of a larger area, and allows employees occupying the adjacent space to work in a more comfortable environment.	20,000
Old Revenue Building Building - ADA and Security Renovations This project will create a new ADA accessible entrance from Morgan Street; and will provide security renovations to include card access and elevator floor lockouts. Handicapped visitors currently must enter through a Hillsborough Street entrance and maneuveur through a confusing layout to the main lobby.	325,000
Old Revenue Building - Server Rooms Suppression System This project will provide a new type of fire suppression system for the server rooms. The current system is a wet system that will damage records stored in the servers if the system was to activate or malfunction.	95,000
New Education Building - Replace HW Package This project replaces the Hot Water package in the New Education Building due to leaking and failing pumps. Complete failure of these pumps will affect heat in the New Education Building.	75,000
Archdale Building New Low Voltage Panel Boards and Wiring This project will replace the old I-line panesi and install new additional panesi and wiring in the Archdale building. Currently, there is no existing capacity for Facilities to provide new circuits.	101,000
Old Revenue Loading Dock This project is to provide a new loading dock with access from Hillsborough Street. At present, there is no loading dock with access from Hillsborough Street. At present, there is no loading dock and shipping/receiving at building is difficult. Work will also include demolition of the luncheonette building and replace it with a parking lot.	229,000
Administration Total	14,648,000

Office of State Budget & Management	Allocation
OSBM Reserve This recommendation creates a contingency reserve for emergency projects approved by OSBM.	2,489,342
Office of State Budget & Management Total	2,489,342
Department of Public Safety National Guard - Greensboro Readiness Center Renovation	
This project renovates and expands the readiness center. It will renovate existing facility space, provide additional space, as well as parking, security, anti-terrorism/force protection improvements. This project will modernize the facility & provide assigned units authorized facilities in order to meet critical local, state & federal missions. These funds would provide a match for \$4,031,000 of federal funds. Note: (These funds will be held in a reserve until the General Assembly approves its release notwithstanding G.S. 143C-4-3, which prohibits use of R&R funds for expansion of an existing building's square footage.)	1,330,000
JJDP - Buncombe Detention Center Renovation This project encompasses the overall repair to the Buncombe Detention Center, including the replacement of doors to sleeping rooms, floor tile, security screen, radiant units, and a central HVAC System. The project scope also includes an electric back gate for the facility, enclosure of the courtyard area, renovation to accommodate additional storage and house the laundry service.	300,000
JJDP - Dillon Fire Alarm and Water Pressure This project will increase water pressure to a minimum of 60 psi for the sprinkler system and plumbing fixtures; and also make repairs to the fire alarm systems.	450,000
JJDP - Youth Development Center Security Cameras and Surveillance System This project installs security camera equipment at the youth detention centers. The project scope includes digital video recorders, cameras, and monitors. In addition, the project funds the purchase of software that allows viewing and archival of videos.	900,000
JJDP - Youth Development Center - Safety and Security Projects This project addresses safety and security concerns at the youth detention centers such as suicide prevention; staff protection; fence repairs, and vandalism repairs	200,000
JJDP - Dobbs HVAC and Mechanical Upgrades This project will provide a chiller to cool the administration building and academic school buildings and auditorium; and an AC condensing unit for the cafeteria.	250,000
Correction - Kitchen Hood Suppression Systems Upgrade This project upgrades kitchen hood systems statewide to meet code requirements. Each system requires new hoods, exhaust fans, supply fans, structural support, fire suppression systems, fuel shut-offs, fire alarm systems tie-in, fire suppression systems, and electrical interlocks.	875,000
Correction - Replacement and Upgrade of Obsolete Electronic Systems This project replaces obsolete electronic door controls along with perimeter security detection and surveillance systems statewide.	1,175,000
Correction - Fire and Life Safety Projects This project replaces fire alarm systems at various Corrections facilities as identified in annual Department of nsurance and Department of Corrections inspections. In addition, work would include replacing defective agress lighting and exit signs as needed, installing generators at various sites, and upgrading electrical services at various sites.	1,500,000
Correction - Central Prison Elevators This project repairs the elevators at Central Prison. The elevators at Central Prison are over 25 years old, do not meet present codes, and are in need of overhaul. These elevators are used to transport inmates and fallure presents serious security issues.	1,757,000
Correction - Roof Repair and Replacement Projects This project repairs and replaces existing roofs and exterior sealant on facilities statewide.	2,000,000

Neconsider Project List	Aliocation
Correction - Mechanical Systems Renovations and Replacement This project renovates and replaces mechanical systems statewide. The age and condition of these systems requires increased maintenance and increases the potential for frequent outages that could require the evacuation of the inmate population, posing an increased threat to the safety and security of the public.	1,600,000
Correction - Water/Wastewater Improvements This project provides for the addition of automated solids removal for sanitary sewer projects statewide. These wastewater projects are located at various units throughout the State and are necessary to maintain adequate service and compliance with local, State and Federal requirements.	775,000
Correction - DART Cherry Renovations This project will address renovations at the 1930 O'Berry Administration building. In the 1990s, the building was gutted and partially renovated and the remainder of the building was left as a gutted shell for storage. This project will correct water infiltration through exterior walls and windows; and renovations to provide offices, storage, and work areas for staff; and climate controlled storage for supplies and records.	150,000
Correction - Statewide Asbestos and Hazardous Materials Abatement This project abates asbestos-containing materials and other hazardous materials at various prison units identified by inspection reports, engineering studies, or emergency situations.	75,000
Correction - Underground Storage Tank Removal and Remediation This project removes or permanently closes inactive or leaking Underground Petroleum Storage Tanks (UST's) and remediates any contaminated soil or groundwater.	75,000
Highway Patrol — Renovate and Update Current Vehicle Paint Booths This project updates existing Vehicle Paint Booths to meet the certification standards set forth by the EPA and the North Carolina Division of Air Quality. The current vehicle painting facilities are outdated, improperly ventilated, and create the potential to cause harm to the surrounding environment or employees.	220,000
Emergency Management Badin Warehouse Repairs This project corrects life safety electrical issues at the Badin Warehouse, such as grounding violations, replace emergency power system, provide a fire alarm system, provide egress lighting and provide site lighting.	171,000
Highway Patroi - SHP Training Academy-Bidg 10 Renovations - J.T. Armstrong Building This project includes demolition of interior partitions and finishes, doors; updates the existing mechanical system and electrical system. A new design will incude space for a larger training area to meet current ADA requirements, upgraded handicap restrooms, showers, and lockers area; minor exterior repairs to the roof and masonry walls; and abatement of: asbestos floor tiles, asbestos insulation, and lead paint.	1,196,000
Emergency Management - Badin Warehouse FCAP ADA Hardware and Sprinkler System This project corrects life safety issues found in the FCAP report, which include installing ADA/Emergency panic door devices and providing an automatic fire sprinkler system.	74,000
Highway Patrol - Troop H Headquarters Renovations This project renovates the Highway Patrol Troop H Headquarters Building in Monroe, which has undergone little maintenance in the past 16 years. The planned repairs include replacing the electronic door locking system, painting, garage renovation, additional security fencing, lighting upgrades, HVAC maintenance, and	149,000
Carpet replacement. National Guard - Fire Alarm Systems Installations - Ph II This project is to install fire and alarm systems that are equipped to transmit remotely to an off-premises location at nine readiness centers across the state.	272,000
Emergency Management - Badin Warehouse FCAP Access, Dock and Exhaust Repairs This project will renovate access to the warehouse, repair the loading dock, provides better drainage, and upgrade the HVAC system.	90,000
National Guard - Morehead City Readiness Center Reroof This project replaces the currently leaking roof at the Morehead City readiness center. The roof was replaced in 1992 with asphalt bitumen. There is current leakage over the administration, hallways, offices, and training areas. Water is entering facility and damaging both facility and contents.	233,000

2011-12 Repair and Renovation Reserve

Recomm	ended Pro	ect List
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Recommended Project List	Allocation
National Guard - Lincolnton - Motor Vehicle Storage Building Reroof/Minor Renovations This project replaces the roof at the 1949 Lincolnton motor vehicle storage building. The reroof is needed to repair large leaks causing damage to building contents and the rotting of wood construction members. The renovations are to address non-ADA compliant restrooms.	119,000
Emergency Management - Badin Warehouse FCAP Facility Repairs This project includes replacement of entry door system, renovate offices, install door awning, repairs walls, and address maintenance issues.	143,000
National Guard - Asheboro Motor Vehicle Storage Building Reroof This project reroofs the 1949 Asheboro motor vehicle storage building. The existing roof is allowing free- flowing water to enter the building. A portion of the metal support system will be replaced due to corrosion.	119,000
Highway Patrol - Renovate and Repair Lincolnton Highway Patrol Office This project will replace the roof to eliminate the existing leaks, paint interior of building, and install electrical outlets in building.	113,000
Highway Patrol - Renovate and Repair Laurinburg Highway Patrol Office This project replaces damaged exterior facia boards, replaces damaged windows, repairs door and locking hardware, and repaints exterior and interior.	44,000
Emergency Management - Badin Warehouse FCAP Long Term Access and Hard Parking This project provides hard surfaces for a currently unpaved lot for both parking and for storage. It will also provide betters access to the facility.	191,000
Highway Patrol - Update Fuel Dispensers at Highway Patrol facilities This project updates the thirty year old Gas Boy fuel dispensers at sixty-four fuel facilities across the state. The current dispensers are outdated, obsolete and maintenance costs run extremely high due to the shortage of parts to maintain the equipment.	205,000
Department of Public Safety Total	16,751,000
Cultural Resources	
Mountain Gateway Museum Log Cabin — Roof Replacement This project replaces cedar shake roofs on two historical log cabins at the Mountain Gateway Museum that are used in the interpretation of the area's history. Both existing cabin roofs are showing significant signs of rot. Project scope includes removal and disposal of the existing roofs, supply of new roof materials, and installation of the new roofs.	35,000
Outer Banks History Center Building & HVAC Repairs This project consists of the repairs and replacement of specific components of the exterior envelope including siding/trim replacement on the south side of the structure and replacement of the falling thermal envelope system below the elevated concrete slab of the archives stacks room. Also included in the scope of the project is replacement of the HVAC heat pump units and controls that condition the office and gallery areas of the Outer Banks History Center.	67,000
Historic Site Statewide Building Repairs This project encompasses nine individual projects to addess repairs and renovations for statewide Historic Site buildings and visitors centers. Specifically, repair of the Alamance Battleground Visitor Center 2,300 sq. ft. roof canopy, interior plaster wall & ceiling repairs at Historic Halifax Eagle Tavern & Owens House, renovation of the 2,100 sq. ft. radio shop building at the NC Museum of Transportation to include plumbing, electrical, and mechanical systems, installation of a perimeter drainage system for the Historic Halifax Sally-Billy & Owens Houses to remove standing water from underneath the two historic houses, completion of phase II of the Bandon Kitchen Restoration at Historic Edenton, renovation of plumbing, electrical, and mechancial systems at the 5,000 sq. ft. Polk Memorial Visitor Center, replacment of 4,400 sq. ft. of carpet at Historic Halifax Visitor Center, installation of window U/V protection at Bath, House in the Horseshoe, Polk, Halifax & Bennett Place Visitor Centers in order to protect original artifacts, a minor roof repair at Historic Edenton Chowan County Courthouse.	472,600

	Allocation
Maritime Museum — Building and Dock Repairs This project includes exterior and interior building repairs for NC Maritime Museum and replacement of 6 timber pilings used to support the NC Maritime Museum's Watercraft Center Boat Hoist and Dock. Building repairs include repair of rotten exterior wall sheathing and replacement of rotten shingle siding, roof repairs, exterior trim repairs and painting, exterior lighting repairs, renovation of public restroom with ADA improvements, installation of LED exit signs, and watercraft center electrical improvements including ground-fault protection breaker, hoist and planer electrical rewiring. Pilings supporting the watercraft center's hoist	211,000
and dock have been in place 20+ years and are experiencing deterioration due to marine organisms.	
State Underwater Archaeology Septic System Connection This project connects the State Underwater Archaeology Office and Lab Facilities to the Kure Beach sewer system, which has been installed along US 421 Highway. The work includes the design and construction of 600 linear feet of 4" Sewer line, a septic tank and pump, a grinder, and the disconnect of the system from septic field.	71,000
NC Transportation Museum Powerhouse Renovation This project renovates the NC Transportation Museum's Powerhouse Building to its original condition in order to house the future mechanical system for the planned 90,000 square foot Backshop Building. The work includes roof repair, masonry repairs, doors, windows, etc.	2,160,000
Roanoke River Lighthouse Renovation-Phase II This project consists of the completion of the restoration of the 1886 3-story Roanoke River Lighthouse (total 2,000 sf) to its original 1886 condition. The scope of Phase II will include restoration of the interior spaces of the lighthouse, installation of new electrical and lighting systems, new HVAC system, new fire alarm/smoke detection systems, hazardous material testing and abatement and lighthouse lens and lens pedestal base restoration. Also included are fabrication of exhibit panels and installation of lighthouse accessories which will be used to interpret the history of the lighthouse and demonstrate the living conditions of lighthouse keepers and their families.	454,000
Cultural Resources Total	3,470,600
Justice SBI Training Center Building 9 Renovation This project will provide workable and usable space to ensure compliance to fire codes, ADA, and health and safety standards. The building was constructed in 1954 and has not had an interior renovation and is in bad condition with a significant presence of mold and asbestos. This building houses the training staff for the SBI and includes classrooms.	1,480,000
Justice Total	1,480,000
Environment and Natural Resources	
NC Zoological Park — Fire Alarm Repairs This project brings the fire suppression system, including the sprinkler system, at the NC Zoological Park into compliance with the NC State Fire Marshal. This project also provides for an annual maintenance contract, including a required annual inspection of the fire alarm and sprinkler system.	234,000
Parks & Rec - Roof Replacements- 29 Projects in 12 Parks This project will address roof repairs for twenty-nine structures at 12 different State Parks throughout the State. The Division has over 1,200 buildings throughout the system and are need of constant repair. The mpact is extensive damage to building structures that will lead to more costly repairs in the future if not repaired. The ages of structures vary, but the average age is over 30 years. Typical repairs include replacing shingles, sheathing, and other damaged roof components as necessary to maintain the integrity of each structure.	453,000
NC Zoological Park- Roof Repairs This project replaces roofs that are in very poor condition and have numerous deficiences including many	401,000

	Allocation
Museum of Natural Science- Skylight repair This project will address several leaks in different areas of the skylights on the 4th floor. Facility Services has attempted to repair the skylights and have been unsuccessful. The leaks have the potential of damaging valuable exhibits. There is currently have a project to repair the Acro Dome; the design and study completed by Sutton-Kennerly and Associates. The same fix for the dome can be applied to the skylights on the 4th floor.	200,000
Marine Fisheries - Main Building and Maintenance Building Crack Repairs This project reduces the overload of electrical circuits, addresses condensation issues in the HVAC system, renovates the Communications Center, and repurposes existing space into a break and conference room at the Division of Marine Fisheries Building.	227,000
Admin: OITS - Remove and Replace Volce/Data Cabling In Archdale This project will remove existing telephone and data cabling from the building and replace it with wiring meeting current fire and electrical codes. The requirements for removing "abandoned cables" became part of the National Electrical Code because of the inherited problem of new cabling being installed on top of old cabling. The reason for this requirement is because of the accumulation of cables with PVC jackets that are abandoned in buildings and never used again. This accumulation of flammable PVC is a fire hazard. The Office of Information Technology Services has informed DENR that the Archdale building is non compilant and has to be brought up to standards before any further work can be done to accomodate the additional staff being brought in out of rental space.	410,000
Aquariums – Graveyard of the Atlantic Exhibit Life Support Systems Replacement This project replaces the Life Support System for the NC Aquariums' showcase exhibit, Graveyard of the Atlantic. The existing system is falling due to age and has patched fiberglass repairs that need immediate attention. The existing assembly will be replaced with 3 new energy efficient pumps, (25 hp and two 7.5 hp shaft intricate) along with large diameter piping (24inch) for the life support systems to include valving.	279,000
Museum Natural Science - Research Lab Boiler Replacement This project installs a four-phase boiler at the Research Laboratory, as the existing two-phase boiler has inadequate phases and struggles to generate adequate hot water temperatures to maintain critical conditions in the research collection ranges.	35,000
Parks & Rec - Fort Macon State Park Bathhouse Renovations (Phase I) This project includes the complete renovation of the existing bathhouse. Work includes replacement of existing roof, siding, and other deteriorating building components (structural and non-structural); renovate and update interior portions of upper changing area/restrooms with individual shower stalls, hot water, lockers, etc. A detailed structual analysis should be performed on the existing structural supports and metal fasteners to include recommendations for replacement or repairs. Wind power could be considered for energy generation for consumption during the season and sell back during off season. Work should include minor updates to lower bathrooms as necessary.	700,000
Aquariums: Roanoke - Replace Electrical Panel and Fire Alarm This project is to replace old and deficient electrical panel boxes, as well as, a consistently falling fire alarm panel for the building notification system. All dated boxes and panels will be replaced and rewired to existing codes.	175,000
Zoo - Desert Pavillion Energy Upgrades This project will address the Desert Pavillon, which has the third largest energy consumption facility at the NC Zoological Park. The request is to fund several modifications to the existing Mechanical Systems to reduce the energy costs by 25%-40%. The project would install a refrigerant heat pipe system to AHU-1 to reduce energy usage by 25% during dehumidification cycles; reduce the total outside air demand in the Dome by converting to demand controlled ventilation. This project will also add an efficient dedicated outside air system to AHU-1 to reduce or eliminate the amount of dehumification of the Dome. Upgrades to the control systems and the addition of variable speed drives to five exhaust fans, the cooling tower fans, cooling tower pump, the primary heating hot water pump and the primary chilled water pump will also be completed.	318,000
Parks & Rec - Falls Lake (Sandling & Rolling View) Buildings Repair This project will repair four shower houses, three bathhouses, entrance station, and two well houses which need siding replaced or painting. Continued neglect to the maintenance needs of these facilities will cause increased repair costs.	75,000

Recommended Project List	Allocation
Marine Fisheries – Cedar Island Bulkhead, Dock, and Ramp Renovation This project stabilizes the waterfront and replaces the existing deteriorated dock. The shoreline stabilization includes composite sheet piling bulkhead, mooring pilings, and a replacement boat ramp within the existing inland basin to accommodate the Marine Fisheries Division research vessels.	322,000
Museum Natural ScI - HVAC Duct Cleaning and Auxiliary Heat This project will continue the HVAC retrocommissioning and repair project. Portions of this project were halted when it was determined the HVAC ducts had to be cleaned. There were not enough funds in the original R&R project to complete the duct cleaning. Also, auxiliary heating is needed in the living collections area of the Museum. This request is for \$200,000 for duct cleaning and \$25,000 for auxiliary heating. Health of the staff and visitors, safety of collections and exhibits, and proper maintenance of the building and its system requires an adequately functioning HVAC system. ARRA funds are currently being used to upgrade controls and other equipment for the HVAC system.	225,000
Marine Fisheries - Elevator Modernization This project is to retrofit a 39 year old Southern Elevator installed back in 1972 when the existing administration building was originally constructed. Replacement parts are becoming increasingly more difficult to locate due to the age of equipment. This causes long delays in making repairs and presents life safety issues. Safety standards have changed since installed and this modernization will bring the elevator up to present code and will be more efficient to operate.	172,000
Environment and Natural Resources Total	4,226,000
Agriculture and Consumer Services	
Eaddy Building — Roof Replacement This project replaces the 33,000 square foot roof of the Eaddy Building, which has experienced major leaks since its construction in 1994. The Eaddy Building houses three laboratories that contain expensive scientific equipment that is very susceptible to water damage. Approximately \$84,500 has been spent on roof repairs since 2004. These roof repairs have been very costly and have proven only a short term solution to an aging roof.	572,000
Research Stations - Roofing and Structural Repairs This project addresses structural and roofing repairs at multiple research stations located in the following counties: Haywood, Lenoir, Sampson, Columbus, Edgecombe, Ashe, and Bertie. These repairs are needed due to excessive leaks.	312,000
Standards - Replace Sample Vault-Motor Fuels Lab This project renovates the NCDACS Plant Industry Division's NC Seed Laboratory, housed in the Old Health Bullding. This project would complement the current plans for a new HVAC system in the laboratory.	203,000
Forestry - NCFS District 13 Office & Shop Renovation-Phase I This project will provide a full renovation to extend the life of the building. The office siding and exterior appurtenances are at the end of their useful life. The office is not ADA compliant. The shop had modest structural failure on one masonry wall, the roof has numerous leaks, and the plumbing, electrical and mechanical systems are at the end of their useful life. The facility has been held together with minor repairs over its life, but is long overdue for a life extending overhaul. This project is to be divided into two phases with work on both buildings. The first phase will focus on the shop with some improvements at the office. Both phases will be designed under the intitial design contract. Estimated cost of both phases is \$753,900. Scope: Rebuild ADA access components for code compliance. Replace wood siding with cementitious siding (Firewise). Replace shop roof. Replace HVAC systems with new energy efficient systems. Upgrade electrical and lighting to current loads and electrical code. Remove all unnecessary and antiquated building systems. Repair structural failure to shop wall. Replace worn flooring.	377,000
Veterinary - Northwestern Lab-Eikin Improvements This project will complete repairs of replacing chiller fan/coil units, repair, resurface and seal necropsy floor (safety hazard for pooling water), floor tiles in offices (buckled tiles).	82,000

	Allocation
Food & Drug - Steam HW Heat Exchanger & Hot Water Pump-Constable This project is to replace the constant air volume boxes, replace the steam-HW heat exchanger and hot water pump, and replace the old, outdated telephone system. The constant air volume boxes (approximately 12) are in need of replacement due to age and condition, are clogged, and dampers do not work properly. These are the original boxes installed in 1977. The boxes allow for air flow and also reheat the air. As for the pump that controls the hot water to the constant air volume boxes, it is the original from 1977. The steam-HW heat exchanger and hot water pump are no longer reliable and are in need of replacement. The telephone system is over 18+ years old, is constantly breaking down, and parts are hard to locate. This represents a security and safety issue for the Constable Lab and the Ballentine Building (which currently share the same telephone system). Under this request, each building would have its own unique telephone system without relying on equipment in the other building.	179,000
Old Health Building Renovation This project renovates the NCDACS Plant industry Division's NC Seed Laboratory, housed in the Old Health Building. This project would complement the current plans for a new HVAC system in the laboratory.	1,741,000
Forestry - Tuttle Public Restroom Renovation This project will renovate the public restroom, and will include roofing, plumbing, siding and electrical work. Due to heavy use, the 'wet wall' of each restroom requires replacement and has incurred some rot along the sill. This is typical of other similar structures that have undergone full renovation. The exterior doors and frames have extensive rot and have become safety hazards. This facility is an ideal candidate for a full renovation that can extend its useful life for another thirty years, mitigating maintenance through that time.	132,000
Forestry - NCFS District 1 HVAC Replacements This project replaces the boiler system, repairs ductwork insulation, cleans ductwork, and replaces the refrigeration system.	68,000
Pest Control - Ballentine Building and Annex Improvements This project will replace parts of the duct work, hot water coils, chiller compressors, condensing unit fans, rusted-out heat exchangers, rusted-out HVAC units, and an old fire alarm panel at the Ballentine Building and the Annex Building.	102,000
Plant Industry - Inspection Station Improvements - Crossnore This project will make critical repairs to the Crossnore Plant Protection Office and Shop; such as removing and replacing/repairing damaged roofing, gutters, damaged siding, windows, along with repairs to an adjacent storage barn located on the property. When this facility was originally constructed, there were no provisions for an HVAC system. Due to the high humidity at this location, a properly sized HVAC system would allow for a better work environment and lessen damage and maintenance costs caused by moisture damage, as well as lessen the potential for ongoing mold problems.	112,058
Agriculture and Consumer Services Total	3,880,058
Health and Human Services O'Berry Neuro-Medical Treatment Center - New Heating Plant - Construction Funds	3,471,000
This project provides a new heating plant for the Eastern Region Psychiatric Hospital to replace Cherry Hospital. The new heating plant will provide for a new low temperature plant to be built on the O'Berry campus and also include changing out heat exchangers in each building in order to accommodate the new water temperature. This new heating plant must be completed prior to the closing of Cherry Hospital.	
R. J. Blackley ADATC - JUH / Blackley Steam Plant This project will provide a small metal building large enough to house three efficient fire tube steam boilers. The steam plant will replace an older unit this is unreliable and extremely inefficient and contains numerous steam leaks in the plant and the steam and condensate piping system.	1,850,000
Central Regional Hospital - Cooling in MDF Room - Additional Funding This project will provide conditioned air to the MDF room which houses equipment that supports all data and communications services for the entire hospital. Loss of the use of the MDF would eliminate all pagers, data, and telephones which would cripple operations and put the hospital at risk of liability. This project consists of building a small mechanical room to house a new DX air handler with an air cooled condensing unit.	178,000

Longleaf Neuro-Medical Treatment Center - Replace 400 Ton Chiller The project will provide a new 400 ton chiller to replace the current non-functioning unit. The new 400 ton unit will also provide backup for the 500 ton main chiller. Currently there is no backup for the main chiller and if the main chiller failed, the entire facility will have to be evacuated.	Aliocation 273,000
Cherry Hospital - Boiler Installation at Royster This project installs an exterior low temperature (180-200 degree) boiler to serve the Royster Building. Installation of the new boiler will allow Royster Building to be removed from the existing system which is supplied by the existing steam plant at Cherry Hospital that will be shut down once the new Cherry Hospital is completed.	145,000
John Umstead Campus - Steam, Condensate and Hot Water Repairs This project replaces existing equipment that is obsolete and leaking, resulting in energy loss as well as mold and mildew problems in numerous buildings. This project will replace one hot water converter and tank, two condensate return units, and 600 feet of condensate return lines including asbestos removal.	184,000
Eastern Region VR Building B Roof Replacement This project will remove and replace the existing roof on Building B with a new modified bitumen built up roof. The existing roof has reached the end of its expected service life and is leaking.	414,000
J. Iverson Riddle Developmental Center Campus Roofing This project replaces the deteriorated roofs on the Chapel, Cedar, Willow Bubbles, and four houses on Enoia Road. The roofs on these buildings are in poor condition and have begun to leak.	396,000
Caswell Development Center — Reroof Central Hospital, Central Warehouse & Hardy Building This project will replace flat roofs on Central Hospital, Central Warehouse, & Hardy Building with modified bitumen. The current flat roofs are covered with EPDM which has deteriorated and attempts to repair are extremely temporary and fail often.	742,000
Broughton Hospital Jones Building Roof Replacement This project will remove and replace the existing membrane roof and insulation, where damaged, with new insulation and .030 TPO material. The existing roof is beyond its service life expectancy and has begun to leak. Water damaged insulation will be replaced where necessary.	187,000
Black Mountain Neuro-Medical Center — Additional Fire Suppression System This project will provide funding for installation of a fully automatic fire suppression system at Black Mountain Neuro-Medical Center. The facility is only partially sprinklered, and current building codes require that a fully automatic suppression system be installed throughout the entire facility.	2,876,000
Julian F. Keith ADATC — Roof Replacement - Dorms 3,4, & 5 The project replaces the existing roof membrane that is in poor condition and nearing the end of its expected service life. This project will also increase the thickness of the roof insulation resulting in improved energy efficiency.	117,000
Murdoch Developmental Center - Butner Office Complex ADA and Life Safety Upgrades This project replaces the existing floor and ceiling tile which is comprised of asbestos containing material. New vinyl composite tile, carpeting and vinyl base along with a new lay-in ceiling will be installed.	125,000
R. J. Biackley ADATC - Alken Building Electrical Upgrades This project will upgrade the existing electrical system for Alken Building which is necessary due to the addition of new computer equipment loads. The project will include providing a new step down transformer from 480V to 208V, two new distribution panels, disconnect switches, and conduit and feeders as required.	141,000
Black Mountain Neuro-Medical Center - Campus Water & Sewer Upgrades This project replaces the current water supply system by tapping into the existing fire hydrant loop and connecting to the existing domestic water service that feeds the campus. This will allow the water supply to be connected to a more reliable incoming water service. The sewer upgrades will replace 70 year old terra cotta piping	185,000

Governor Morehead School - Lineberry Auditorium Renovations This project will renovate the interior of the GMS auditorium in the Lineberry Building. The renovations will	Aliocation 385,000
include: New stage curtains, flooring, stage lighting, integrated sound/lighting/recording system, new chair lift, wall mirrors for the dance room, sound reflectors over the stage, acoustical wall panels, 350 new seats (removal of old seats), asbestos floor tile abatement, painting, plaster repair, new flooring, and control booth constructions	
Broughton Hospital — DOI & DHSR Life Safety Compliance Corrections This project provides for compliance corrections as identified by both the Department of insurance and the Division of Health Service Regulation. The compliance corrections consist of sprinkler systems for most building attics, fire and smoke alarms for numerous areas, exit stairwell corrections, and a large number of miscellaneous items. Because the work must coordinated among the many buildings on campus, the design must be performed for the entire campus to ensure that adequate water supplies are available, that the central fire alarm panel is adequate for the entire hospital, etc. Once the design is complete, then construction may be performed on a building-by-building basis.	248,000
Wright School Safety and Security Upgrades This project addresses several safety and security issues on Wright School's building and grounds as identified by the Division's HiPAA Gap Assessment team and by Advocacy Services. The project scope includes a security system, exterior motion detector lights, and an exterior camera surveillance system.	109,000
Murdoch Developmental Center Ridgeway Roof Replacement This project replaces the main sloped shingle roof on the Ridgeway Cottage (patient cottage)	215,000
Dorothea Dix Campus Campus wide Roofing This project repairs the roofing, flashing, and related waterproofing systems and subsystems. The project scope includes work at McBryde North and South, Plumbing Shop/Garage, Anderson, Royster, Dobbin, Broughton, Kirby, Grounds Maintenance, Laundry Distribution, and 17 residential style buildings.	495,000
Julian F. Keith ADATC Dormitory 1 & 2 Roof Replacement This project replaces the roofing and insulation for the Dormitory 1 & 2 Building.	111,000
Dorothea Dix Campus Ashby ADA & Life Safety Upgrades This project provides ADA and Life Safety Code upgrades for the Ashby Building to include: elevator installation; ADA bathroom improvements; ADA parking spaces and sidewalks; asbestos floor tile abatement; carpet; and, a card access system.	345,000
Governor Morehead School - Campus Roofing Upgrades (Crockett-Peeler) This project repairs the roofing, flashing, and related waterproofing systems and subsystems. The project is necessary to protect the building form deterioration and to provide a suitable environment for the building occupants.	95,000
Cherry Hospital - Conference Center HVAC & FA Upgrades This project replaces the original 1969 model HVAC system, and also provides a new fire alarm system. The boiler in this building failed early in 2010 and the original HVAC system is tied into the campus hot water system that will be shut down after the construction of the new Eastern Regional Hospital.	187,000
J. iverson Riddie Developmental Center Campus Roofing (Covered Workshop & Workshop Add) This project replaces the approximately twenty-nine year old roofs on both the sheltered workshop and the existing workshop addition. Both are in poor condition and need replacement due to numerous leaks.	236,000
Caswell Developmental Center - Reroof Alpha, Beta & Gamma Buildings This project replaces flat roofs on Alpha, Beta, and Gamma buildings with modified bitument. The flat roofs are covered with EPDM which has deteriorated and attempts to repair are temporary and often fail.	383,000
Waiter B. Jones ADATC - Kitchen & Dining Upgrades - Additional Funding This project upgrades the kitchen by replacing existing equipment to accommodate the current needs of the facility. This includes new ceilings, upgrading the toilet room to ADA standards, painting, new air handler and boiler, fire alarm system, generator and new grease interceptor.	70,000

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Casweii Developmental Center - Connect Central Hospital to Chiller Plant This project involves the removal of the existing early 1970s chiller at Central Hospital and will connect the building to campus chilled water loop for improved efficiency and reliability. Controls will also be upgraded in the chiller plant for improved efficiency and to condition the space to prevent mold.	266,000
Longleaf Neuro-Medical Treatment Center - Domestic Coid Water Piping Replacement This project replaces the existing domestic coid water distribution system from the outlet of the existing building domestic water pressure pump up to the branch piping where the pipe connects to the piumbing risers that service the Scott building.	291,000
Central Regional Hospital - Canopies at Dock and Staff Entrances This project supplies canopies to two entrances and the receiving dock at Central Regional Hospital. Excessive amounts of ice build up on ledges above wallkways that ice melter cannot melt.	350,000
J. iverson Riddle Developmental Center - HVAC Equipment Upgrades at Workshops This project replaces outdated and malfunctioning HVAC packaged units at Adapative Equipment Workshop, Dogwood Workshop, and Workshop Addition.	235,000
Health and Human Services Total	15,305,000
GRAND TOTAL	62,250,000