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ATHERTON CONSULTING ENGINEERS, INC.

Mail: P.O. Box 16511, Jackson, MS 39236-6511 Phone: 601.362.6478 Fax: 601.981.0575



ATHERTON CONSULTING ENGINEERS, INC.

Gentlemen:

Atherton Consulting Engineers, Inc. is a mechanical engineering firm committed to quality design that yields lower maintenance and operating cost.

The firm, in business over 25 years, has two registered engineers and a seven member support staff located in Jackson, Mississippi. A primary design criteria for systems that are better maintained with fewer problems and lower operating cost is the interaction with the physical plant personnel before, during, and after the design of a project.

Atherton Consulting Engineers, Inc. appreciates the opportunity to submit our qualifications for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Perry E. Atherton, P.E." The signature is written in a cursive style.

Perry E. Atherton, P.E., CEM

PART 1: QUALIFICATIONS

PERRY E. ATHERTON, P.E. PRINCIPAL MECHANICAL ENGINEER AND ENVIRONMENTAL ENGINEER

EDUCATION:

B.S. Mechanical Engineering, 1985 Mississippi State University

REGISTERED PROFESSIONAL ENGINEER:

Mississippi - #9821

NCEE - #7932

Registered in 7 states

YEARS EXPERIENCE:

Total: 46

With current firm: 26

CERTIFICATIONS:

Certified Energy Manager, CEM

Certified Energy Analyst (MDOT)

Certified Sustainable Development Professional (CSDP) #399

ACG Certified Commissioning Authority #505-059

PROFESSIONAL SOCIETY AFFILIATIONS

ASHRAE

Association of Energy Engineers

Council of American Mechanical & Electrical Engineers

Consulting Engineers Council of Mississippi

National Fire Protection Association

National Society of Professional Engineers

AWARDS:

ACEC Engineering Excellence Award for Chilled Water Revisions

University of Mississippi Medical Center

ACEC Engineering Excellence Award for Utilities Program, Phase I

Mississippi State University

DONALD L. GREEN, P.E.

EDUCATION:

B.S. Mechanical Engineering, 1987 Mississippi State University

REGISTERED PROFESSIONAL ENGINEER:

Mississippi - #13816

Louisiana - #28765

NCEE - #17639

YEARS EXPERIENCE:

With current firm: 25

PATSY ATHERTON, ADMINISTRATIVE ASSISTANT

EDUCATION:

M.S. Computer Technology, 1999 Mississippi State University

TIM GROOVER, MECHANICAL DESIGNER

EDUCATION:

B.S. Mechanical Engineering Technology, 1999 University of Southern Mississippi

DANIEL MANNING, COMPUTER-AIDED CADD OPERATOR

EDUCATION:

A.D., Drafting and Design, 2010 Holmes Community College

DENISE STRICKLAND, ADMINISTRATIVE ASSISTANT

EDUCATION:

Business Administration, 1970 Hinds Community College

Business Administration, 1971, 1972 University of Southern Mississippi

WARREN TINNEY, COMPUTER-AIDED CADD OPERATOR

EDUCATION:

In Progress: B.S., Construction Engineering/Management, University of Southern Mississippi

A.D. Construction Engineering, 2008 Holmes Community College

STEPHEN WHITE, CADD OPERATOR

EDUCATION:

A.A.S. Engineering Drafting/CADD, 1992 Hinds Community College

PAYNE WRIGHT, MECHANICAL DESIGNER

EDUCATION:

A.A.S. Engineering Drafting/CADD, 1984 Hinds Community College

PART 2: PAST PROJECTS

(MECHANICAL CONTRACT AMOUNTS)

GUYTON RESEARCH BUILDING EXPANSION

UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, JACKSON, MS.

Plumbing and HVAC design for 175,000 sq ft. research building. Built-up air handlers with heat reclaim system. Variable air volume system with integration to lab fume hoods. Five floors finished out and three floors shelled for future.

COST \$10,400,000

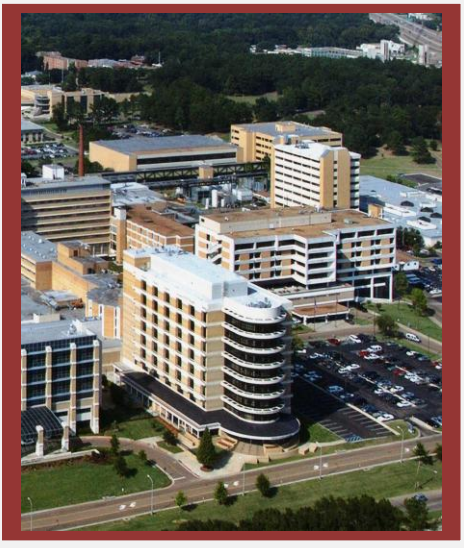


2001 MECHANICAL RENOVATIONS, PHASE I

MISSISSIPPI CENTER FOR EDUCATION AND RESEARCH, JACKSON, MS.

Design upgrade of piping and pumping for existing central chiller/boiler plant. New 1,000 ton chiller, cooling tower, primary/secondary variable speed pumps and new central plant energy management/control system.

COST \$1,228,412



CHILLER PLANT

UNIVERSITY OF MISSISSIPPI MEDICAL CENTER, PHASE I, JACKSON, MS.

Analyzed and redesigned pumping and piping in central chiller plant converting existing header system to primary/secondary piping/pumping system with variable speed pumps for 15,000 tons.

COST \$3,154,000

2004 MECHANICAL REPAIRS PROGRAM, PHASE II

MS CENTER FOR EDUCATION AND RESEARCH, JACKSON, MS.

New boiler, cooling tower, and related piping to upgrade central boiler/chiller plant.

COST \$497,900



CHILLED WATER MODIFICATIONS

G.V. SONNY MONTGOMERY VETERAN AFFAIRS MEDICAL CENTER, JACKSON, MS.
Analyzed and redesigned pumping and piping in central chiller/boiler plant. New design with 3,080 tons of new chillers, cooling towers, D.D.C. controls, deaerators, steam piping, primary/secondary piping and variable speed pumping.

COST \$5,800,000

MEDICAL GAS SYSTEM

G.V. SONNY MONTGOMERY VETERAN AFFAIRS MEDICAL CENTER, JACKSON, MS.

Designed and phased new medical gas system for existing operational Medical Center. System included piping outlets, zone valves, alarms, air compressors, vacuum pumps for O₂, VAC, and air in rooms.

COST \$680,000

SANITARY SEWER

G.V. SONNY MONTGOMERY VETERAN AFFAIRS MEDICAL CENTER, JACKSON, MS.

Designed and phased replacement of all sanitary sewer piping for existing operational medical facility.

COST \$785,000

STATE VETERAN AFFAIRS NURSING HOME R & R

JACKSON, MS.

HVAC design to upgrade system with new chillers, air handling units, fan coil units and energy management system for 120 bed nursing home.

COST \$713,853

NEW STATE VETERAN AFFAIRS NURSING HOMES (3)

COLLINS, OXFORD, KOSCIUSKO, MS.

Design mechanical systems for new 120 bed nursing homes. Design included plumbing, medical gas, boilers, pumps, chillers, fan coil units, air handling units and energy management systems.

COLLINS COST \$1,615,000

OXFORD COST \$1,625,000

KOSCIUSKO COST \$1,630,000

NEW RESIDENCE HALL COMPLEX, PHASE I

MISSISSIPPI STATE UNIVERSITY

Design plumbing, HVAC and outside utilities for new 360 room dormitory.

COST \$1,904,376



NEW RESIDENCE HALL COMPLEX, PHASE II

MISSISSIPPI STATE UNIVERSITY

Design plumbing, HVAC and outside utilities.

COST \$3,497,900

PHYSICAL EDUCATION AND ASSEMBLY BUILDING

MISSISSIPPI UNIVERSITY FOR WOMEN, COLUMBUS, MS.

HVAC design for P.E. Building. HVAC system consists of chillers, boilers, air handling units for the gym and exercise rooms. Dehumidification units for swimming pool area.

COST \$2,050,000

2001 CHILLER PLANT

MISSISSIPPI UNIVERSITY FOR WOMEN

Designed boiler and chiller plant with underground heating and cooling loop for 5 buildings. Chiller plant designed with free cooling feature.

COST \$1,600,000



SANDERSON RECREATION CENTER

MISSISSIPPI STATE UNIVERSITY

Designed mechanical system for sports complex with 6 basketball courts, elevated walking track, large weight/exercise room, 2 aerobics rooms, climbing wall, 6 handball/racquetball courts, office spaces and indoor swimming pool.

COST \$2,950,000

CAMPUS WIDE COMPREHENSIVE ENERGY RENOVATION, PHASE 2 MECHANICAL

JACKSON STATE UNIVERSITY

Design HVAC renovations to five story science lab and design campus wide energy management system for all buildings. Lab renovations included HVAC interface with lab hoods for VAV system.

COST \$2,152,000

'95 MECHANICAL EXPANSION

JACKSON STATE UNIVERSITY

Developed south chilled water loop connecting eight buildings to the central chiller system.

COST \$1,681,105

CAMPUS CHILLED WATER LOOP, PHASE 2

JACKSON STATE UNIVERSITY

South chilled water loop expansion. Expanded chiller plant and extended chilled water loop to connect to seven additional buildings.

COST \$1,311,608

MECHANICAL EXPANSION, PHASE 3

JACKSON STATE UNIVERSITY

North chilled water loop connecting ten buildings to central chiller plant.

COST \$1,311,608

MECHANICAL EXPANSION, PHASE 4

JACKSON STATE UNIVERSITY

Design new north central chiller plant with three 1,000 ton chillers, cooling towers, pumps, central plant energy management system.

COST \$2,650,000

MASTER PLAN FOR MISSISSIPPI STATE UNIVERSITY CAMPUS WIDE UTILITIES

Energy analysis and cost estimates for furnishing and delivering steam, hot water and chilled water to each building on the Campus. Five different types of campus wide systems studied. Recommended converting existing steam plant into central chiller/boiler plant with chilled/hot water loop to supply campus buildings. Total of 9,000 tons and 3,000 boiler horsepower. Project to be done in five phases .

ESTIMATED COST \$18,000,000

1989 UTILITIES PROGRAM, PHASE I

MISSISSIPPI STATE UNIVERSITY

Design new steam, heating water and chilled water distribution system and central chilled/heating water plant for central core of 25 buildings on the campus. Central plant consist of steam to hot water converters, 1,250 ton chiller, pumps, cooling tower, etc.

CONTRACT \$2,710,000

ACEC ENGINEERING EXCELLENCE AWARD

1991 CAMPUS UTILITIES, PHASE II

MISSISSIPPI STATE UNIVERSITY

Design for extension of central campus heating water and chilled water loop. Connections to five buildings.

CONTRACT \$900,000

CHILLED WATER LOOP

MISSISSIPPI VALLEY STATE UNIVERSITY

Design new chiller plant and chilled water distribution loop to supply cooling water to existing and new buildings on campus, two (2) 1,250 ton chillers, pumps, and cooling towers. This phase included air conditioning for six dorms using new chilled water loop. There are four phases to this project.

COST \$5,160,000

SCIENCE AND TECHNOLOGY BUILDING

MISSISSIPPI VALLEY STATE UNIVERSITY

Design mechanical system for teaching/research building. Special considerations for research labs pressurization, fume hood exhaust, and special Vivarium HVAC systems connected to central chilled water loop.

ESTIMATED COST \$2,650,000

RENOVATION OF KITCHEN AND CAFETERIA

MISSISSIPPI VALLEY STATE UNIVERSITY

Design new HVAC, plumbing, and electrical systems for existing kitchen and cafeteria. New HVAC system connected to central chilled water loop.

COST \$970,000

FIELDING WRIGHT MATH & SCIENCE BUILDING

MISSISSIPPI VALLEY STATE UNIVERSITY

Design new HVAC, hood exhaust and plumbing systems for existing Science Lab Building. New HVAC system connected to central chilled water loop.

COST \$928,000

STUDENT UNION

MISSISSIPPI VALLEY STATE UNIVERSITY

Design new HVAC and plumbing system for Student Union and Grille. New HVAC system connected to central chilled water loop.

COST \$760,000

FIRST PRESBYTERIAN CHURCH

JACKSON, MS.

HVAC and plumbing design for renovation and addition to existing church. New chiller, boiler, pumps, air handling units, and duct.

COST \$900,000



MADISON COUNTY COURTHOUSE, PHASE I

CANTON, MS.

Design of HVAC and plumbing systems for renovations and additions of two story county office and courts building. Chilled and hot water, variable air volume system with energy management system.

CONTRACT \$400,000

MADISON COUNTY COURTHOUSE, PHASE II

CANTON, MS.

Design of HVAC and plumbing systems for new two story county office and courts building. Chilled and hot water, fan coil system with energy management system.

CONTRACT \$345,600

MADISON COUNTY COURTHOUSE, PHASE III

CANTON, MS.

Design of HVAC and plumbing systems for renovations and additions of three story county office and courts building. Chilled and hot water, fan coil systems with energy management system.

CONTRACT \$160,000

SILVER STAR CASINO, PHASE I

PHILADELPHIA, MS.

Design of HVAC and plumbing systems for 120,000 sq. ft. casino and 500 room hotel.

CONTRACT \$4,600,000

SILVER STAR CASINO, PHASE III

PHILADELPHIA, MS.

Designed mechanical systems for casino addition and additional 300 rooms to hotel. Chiller plant was designed to supply cooling to fan coil units in rooms, air handling units in casino and to make-up air units.

COST \$6,550,000

HOLLYWOOD CASINO

TUNICA, MS.

Design of HVAC and plumbing systems for 100,000 square foot casino.

CONTRACT \$3,270,000

TUCKER ELEMENTARY SCHOOL

CHOCTAW INDIANS RESERVATION, NESHOPA COUNTY, MS.

Design HVAC and plumbing systems for new school consisting of classrooms, offices, library, kitchen, gym and band room. Central energy management system for this complex.

CONTRACT \$799,000.00.

MISSISSIPPI STATE UNIVERSITY VET SCHOOL

Energy management system and air handling unit modifications.

COST \$275,000

2000 WISE CENTER RENOVATIONS

MISSISSIPPI STATE VET SCHOOL.

Analyzed and redesigned chiller plant with primary/secondary variable speed pumping and piping. Three 600 ton chillers, cooling tower, pumps and central plant energy management and controls. Designed FREE COOLING cycle using cooling towers.

COST \$1,019,080.

PACKARD ELECTRIC, PHASE I

BROOKHAVEN, MISSISSIPPI

Analysis and design of chilled water (120 ton) and process water for new precision molding module. After analysis of the existing HVAC system, an additional 75 tons of air conditioning was designed for space cooling of this module.

COST \$375,000

PACKARD ELECTRIC, PHASE II

BROOKHAVEN, MISSISSIPPI

Analysis and design of new chilled and process water, compressed air system and space air conditioning for second precision molding module.

COST \$650,000

PACKARD ELECTRIC, PHASE I

CLINTON, MISSISSIPPI

Analysis and design of gas distribution system for manufacturing facility of 800,000 s.f. Network of over 6,000 feet of pipe and valves for high pressure distribution to future equipment.

CONTRACT \$148,000

PACKARD ELECTRIC, PHASE II

CLINTON, MISSISSIPPI

Analysis and design of gas distribution system for manufacturing facility of 750,000 s.f. Network of over 4,800 feet of pipe and valves for high pressure distribution to future equipment.

CONTRACT \$130,000

BOILER PLANT

SANDERSON FARMS, COLLINS, MS

Design of 3,000 boiler horsepower plant to serve poultry rendering and process plant. Steam system operating at 125 psi with high pressure condensate return.

CONTRACT \$130,000

HUNTER ENGINEERING

UNION, MS.

Design of HVAC, plumbing, make-up air and exhaust of paint and welding booths, and hazardous waste piping systems for 125,000 square foot manufacturing plant.

CONTRACT \$574,000.00.

HUNTER ENGINEERING

Raymond, MS

Analysis and design of new HVAC system for existing 90,000 square foot plant.

CONTRACT \$459,000.00.

ARMSTRONG

JACKSON, MS.

Design of make-up air, heating and exhaust system for 36,000 square feet. Design of make-up air and exhaust for 600 square foot battery charging area.

CONTACT \$96,000.00.

FISHCO, INC.

BELZONI, MS.

Designed HVAC systems, compressed air and vacuum systems, high pressure wash down system, and sewer systems for new catfish processing plant.

COST \$285,000

UNITED TECHNOLOGIES

COLUMBUS, MS,

1987. Analysis and redesign of existing chiller plant (1,750 tons), pumps (primary and secondary), cooling tower (bypass), and piping. Heat gain/loss calculations on 105,000 sq. ft. manufacturing facility with new duct lay-outs, air handlers, and chilled pipe water system.

CONTRACT \$803,000.00.

PART 3: REFERENCES

MR. RAY BAILEY, DIRECTOR OF FACILITIES AND PUBLIC SAFETY
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