

City of Fayetteville Staff Review Form

2015-0473

Legistar File ID

10/20/2015

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Chris Brown

10/2/2015

Recycling & Trash Collection /
Transportation Services Department

Submitted By

Submitted Date

Division / Department

Action Recommendation:

Approval of a Contract with Grubbs, Hoskyn, Barton, and Wyatt for construction materials testing services on the Recycling and Trash Collection Office Expansion and Site Improvements

Budget Impact:

5500.5080.5314.00		Solid Waste	
Account Number		Fund	
13021.2000		Solid Waste Office & Trans Station	
Project Number		Project Title	
Budgeted Item?	Yes	Current Budget	\$ 2,308,845.00
		Funds Obligated	\$ 199,252.00
		Current Balance	\$ 2,109,593.00
Does item have a cost?	Yes	Item Cost	\$ 25,000.00
Budget Adjustment Attached?	No	Budget Adjustment	
#		Remaining Budget	\$ 2,084,593.00

V20140710

Previous Ordinance or Resolution # _____

Original Contract Number: _____

Approval Date: _____

Comments:

MEETING OF OCTOBER 20, 2015

TO: Mayor and City Council

THRU: Don Marr, Chief of Staff
Terry Gulley, Transportation Services Dept. Director
Jeff Coles, Recycling and Trash Collection Division Head

FROM: Chris Brown, P.E., City Engineer *CB*

DATE: October 2, 2015

SUBJECT: **Approval of a contract with Grubbs, Hoskyn, Barton, and Wyatt for materials testing services on the Recycling and Trash Collection Facility Expansion**

RECOMMENDATION:

Staff recommends approval of a contract with Grubbs, Hoskyn, Barton, and Wyatt (GHBW) for materials testing services on the Recycling and Trash Collection Facility Expansion and Improvements project.

BACKGROUND:

The Recycling and Trash Collection Division is in need of expansion/improvements to their facility on Happy Hollow Road, to include expansion and improvements to their offices and transfer station building, parking areas, access drives, and other site elements. This expansion will provide additional office and meeting spaces for existing staff as well as provide for space for future expansion as the City continues to grow. The total expansion area is approximately 5450 square feet. The existing office area (approximately 2800 SF) will also be renovated.

DISCUSSION:

This proposed contract will provide for material testing services by GHBW, to include earthwork compaction testing, foundation inspection, concrete strength testing, and base and asphalt compaction testing. The total amount of this contract will not exceed \$25,000.

BUDGET/STAFF IMPACT:

This project will be funded from the Solid Waste Office and Transfer Station Expansion project in the Solid Waste Fund.

Attachments:

Contract with Grubbs, Hoskyn, Barton, and Wyatt



August 24, 2015
Proposal No. SP15-080

P.O. Box 1248
Springdale, Arkansas 72765
341 West County Line Road 72764
(479) 756-5999
FAX (479) 756-1749

City of Fayetteville Engineering Division
125 West Mountain Street
Fayetteville, Arkansas 72701

Attn: Mr. Chris Brown, P.E.
City Engineer

**SUBJECT: CONSTRUCTION MATERIALS TESTING SERVICES
OFFICE FACILITIES AND SITE IMPROVEMENTS (CONTRACT
SECTION 1) – TRANSFER STATION & MATERIAL RECOVERY
FACILITY EXPANSION
RECYCLING & TRASH COLLECTION DIVISION
FAYETTEVILLE, ARKANSAS**

Dear Chris:

We are pleased to submit this proposal and cost estimate for providing construction materials testing services for the above referenced project. This proposal and cost estimate have been prepared based on our review of the project plans and specifications provided by McGoodwin, Williams & Yates, our meeting with Mr. Zane Lewis, of MWY, and our understanding of the site conditions based on the geotechnical report we submitted on August 28, 2014 (GHBW Report # 14-056).

The Contract Section 1 consists of improvements to the northern portion of the facility. The contract includes a building addition, light-duty asphalt parking lots, heavy-duty asphalt truck turning loops and a heavy-duty concrete truck parking area. The project also includes concrete curb and gutter and some sidewalks. Site grading for pavements is expected to include 2 to 3 ft of undercuts in conjunction with the use of geogrids.

Grubbs, Hoskyn, Barton & Wyatt, Inc. has a long history of providing quality geotechnical and materials testing services in Arkansas and surrounding states. A brief Statement of Qualifications is enclosed as Attachment A for your review. Our laboratory is certified by the Arkansas Highway and Transportation Department (AHTD) and the American Association of State Highway and Transportation Officials (AASHTO). Copies of these certifications are enclosed as Attachment B.

Scope of Services

We have based our scope of services on our review of the project plans and specifications, and our geotechnical report dated August 24, 2014, and our experience with projects of similar size and scope. Construction schedule from the Contractor is not available at this time. Our scope of services is expected to include but not limited to testing related to excavation and site grading, foundation installation, reinforcement, slab-on-grade, concrete, road base and asphalt. Laboratory testing is expected to include but not limited to Proctors, soil classification, concrete cylinder breaks, asphalt testing and bioretention soil testing.

Personnel and Scheduling

For cost estimation, we have assumed that our testing services is expected to be provided on an on-call basis. We have also assumed visits by the Project Engineer and Principal Engineer will be periodically required for meetings, coordination and consultation. For this project, we plan to provide the following personnel and hourly rates as follows:

CMT Technician	\$55.00/hour
Senior Technician	\$60.00/hour
Technician Supervisor	\$65.00/hour
Structural Steel Inspector (CWI)	\$75.00/hour
Project Engineer	\$95.00/hour
Principal Engineer	\$125.00/hour
Report Preparation and Reproduction	\$45.00/hour

Hourly rates include equipment for field testing, i.e. nuclear density machines, concrete testing equipment, and concrete cylinder molds. Hourly rates also apply to travel time to the job site plus \$0.50 per mile for mileage.

Resumes for key personnel with which we plan to staff the project are enclosed as Attachment C.

Cost Estimate

Based on our understanding of our scope of work, the construction schedule and estimated material quantities, the cost of materials testing services is estimated on the order of **\$25,000**. This estimate includes work performed on-site, engineering services, laboratory testing, and reporting costs. A cost estimate detail that outlines the assumptions used to arrive at the cost estimate is enclosed as Attachment D for your reference.

The cost estimate may be considered **not to exceed** for the scope of services and assumptions outlined in the cost estimate detail. We will not exceed the stated amount without prior authorization. Any additional charges for services provided will be based on our Standard Schedules of Fees 40.01, 42.07, and 46.02, enclosed as Attachment E.

We appreciate the opportunity to submit this proposal and cost estimate and look forward to working with you on this project. We are confident that we have the expertise and resources to provide these services in a competent and timely manner. If you have questions about the proposal and cost estimate or if tasks should be added or deleted from the scope of services, please call. If the scope of work and cost estimate are acceptable, please return one signed copy as authorization.

Sincerely,

**GRUBBS, HOSKYN,
BARTON & WYATT, INC.**



Subra T. Bhat, Ph.D., P.E.
Principal/Manger of Springdale Office

Attachment A: Statement of Qualifications
Attachment B: Laboratory Certifications
Attachment C: Resumes
Attachment D: Cost Estimate Detail
Attachment E: Schedule 40.01 (April 2008)
Schedule 42.07 (April 2014)
Schedule 46.02 (June 2014)

Copies Submitted: City of Fayetteville Engineering Division
Attn: Mr. Chris Brown, P.E. (email)
City Engineer
Attn: Mr. Waylon Abernathy, P.E. (email)

McGoodwin, Williams & Yates, Inc.
Attn: Mr. Brad Hammond, P.E. (email)
Attn: Zane Lewis, P.E. (email)

Date

Signature

Attachment A

GRUBBS, HOSKYN, BARTON & WYATT, INC.
GEOTECHNICAL and MATERIALS TESTING CONSULTANTS

STATEMENT OF QUALIFICATIONS

Introduction

Grubbs, Hoskyn, Barton & Wyatt, Inc. is a geotechnical consulting firm located in Little Rock (Headquarters) and Springdale, Arkansas. The firm was established as Grubbs Consulting Engineers, Inc. in 1964 in Fayetteville, Arkansas and moved to Little Rock in 1966. In addition to the main office in Little Rock, Grubbs, Hoskyn, Barton & Wyatt also has a branch office in Springdale, Arkansas.

The practice of **Grubbs, Hoskyn, Barton & Wyatt, Inc.** can be divided into four principal phases: (1) geotechnical engineering analyses and design; (2) field instrumentation, measurement and laboratory testing; (3) subsurface exploration; and (4) engineering services for construction. The firm includes over 60 persons, including engineers; geologists; soils, laboratory, and materials technicians; drillers; and support personnel. The engineering group includes seven (7) Registered Professional Engineers and two (2) Engineer Interns.

Specialized Experience

Grubbs, Hoskyn, Barton & Wyatt, Inc. has performed geotechnical studies and presented recommendations for design and construction of fossil and nuclear power plants, high rise office buildings, hotels, warehouses, schools, major highway and railroad river bridges, earth dams, retaining walls, levees, revetments, drainage structures, pumping stations, proposed and existing landfill sites, hazardous waste sites including Superfund sites, and port facilities. The project sites have been located in a variety of geologic regions including the Mississippi Embayment, Ozark Mountains, Ouachita Mountains, Gulf Coastal Plain, and Loessial terrace areas.

Engineering studies for design of structures on or adjacent to rivers and lakes have included analysis of local and ground scour potential, development of river channel and bank stabilization and analysis of deep pile and pier foundation systems. Projects involving bridge design have required engineering studies for large slurry pier and dredged caisson foundations and load testing and selection of construction specifications and procedures. Marine projects include studies on the Arkansas, Red, Ouachita, and Mississippi Rivers.

Investigations, studies and analyses frequently required detailed evaluation of groundwater conditions, soil permeability and development of data for evaluating underseepage potential and the design of seepage controls including slurry walls and dewatering systems. The studies of groundwater related problems have involved the installation of both temporary and permanent piezometers, groundwater monitoring wells, and various types of in-situ permeability tests. Evaluation of the potential for seepage in rock strata has involved the performance of pressure and flow tests using open and double packer methods.

Studies have also required analysis and monitoring of slope stability in fills and deep cuts for highway embankment and for emergency spillway areas and development of recommendations for treatment of potentially unstable soil or rock zones. Borrow area evaluations have consisted of both test pit and sample boring investigation, determination of engineering properties and development of fill placement and compaction criteria for both homogeneous and zoned embankments of soil and rock fill design. Particular attention has been given to developing methods of using available soil and rock materials from reservoir borrow areas and emergency spillway cuts in the embankments to reduce the project cost.

Subsurface Exploration

To perform the necessary data gathering for evaluation of soil and geological conditions, our firm has an equipment complement which includes one Failing 1500, two Mobile B-53's, one SIMCO 2400, one all-terrain vehicle-mounted Mobile B-53 and one all-terrain vehicle-mounted Hilyard Super rig. Special sampling and field testing has also been accomplished using down-hole vane shear apparatus and cone penetrometers. Rock exploration capabilities include standard NX and NQ_{w1} coring capabilities.

Our exploration equipment is suitable for mounting on marine equipment. We have used tugboats with barges moored with four-point anchor spread, spud barges, and sectional barges. We have drilled in major streams, such as the Mississippi River and Arkansas River, lakes including Beaver Lake and Lake Hamilton, and smaller bodies of water.

Laboratory Testing

Grubbs, Hoskyn, Barton & Wyatt, Inc. laboratory operations use state-of-the-art equipment and methods for performing routine and specialized tests on soil and rock. Testing capabilities include: water content, specific gravity, density, Atterberg Limits, grain-size from sieve analyses and hydrometer, permeability using constant-head and falling-head and flexible-wall apparatus, shrinkage tests, maximum and minimum density tests, pin-hole dispersion, resistivity, pH and chemical analyses, triaxial shear and direct shear tests, consolidation tests and Standard and Modified Proctor moisture-density tests. Our Little Rock laboratory facility is periodically inspected by AASHTO, the US Army Corps of Engineers, Center for Training Transportation Professionals (CCTP), and CCRL. Laboratory certification information is attached.

Construction Services and Materials Testing

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk derives from the practical necessity of basing interpretations and design conclusions on a limited sampling of the earth. The services of **Grubbs, Hoskyn, Barton & Wyatt, Inc.** extend into the construction phase of projects to aid in minimizing such risks.

By observing various phases of excavation and foundation construction, our field representative is able to recognize both the expected and unexpected variations in subsurface conditions, to interpret their significance, and to make prompt recommendations for action when needed.

Other construction services provided by **Grubbs, Hoskyn, Barton & Wyatt, Inc.** include advice and assistance in the selection of fill materials; quality control of compacted fills; inspection during construction of pile, piers, mat, and footing foundations; quality control and testing of concrete, structural steel and asphalt. Often, for large projects, it is desirable to establish an on-site laboratory so that quality control (QC) testing can more readily be coordinated with construction surveillance.

Attachment B

American Association of State Highway and Transportation Officials AASHTO Accreditation Program Certificate of Accreditation

This is to signify that

Grubbs, Hoskyn, Barton & Wyatt, Inc.
in
Springdale, Arkansas

has demonstrated proficiency for the testing of construction materials and has conformed to the minimum requirements established in AASHTO R 18 set forth by the AASHTO Highway Subcommittee on Materials (HSOM).

The scope of accreditation can be viewed on the AAP Directory of Accredited Laboratories on www.amrl.net.



Bud Wright, Executive Director


Moe Jamshidi, AASHTO HSOM Chair



CTTP

Laboratory Certification Program

This document asserts that

Grubbs, Hoskyn, Barton, & Wyatt, Inc.
Springdale Laboratory
Springdale, AR



Laboratory No.
905700

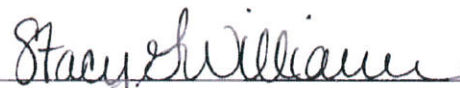
Expiration Date:
11/19/15

is certified to perform quality control testing under the specifications shown below, for a time period to expire on the date shown above.

Aggregate

AASHTO

T 2	Sampling Aggregates
T 11	Washing
T 21	Organic Impurities
T 27	Sieve Analysis
T 84	Fine Agg. Sp. Gr.
T 85	Coarse Agg. Sp. Gr.
T 248	Splitting/Quartering
T 255	Moisture Content


Director, CTTP



CTTP

Laboratory Certification Program



This document asserts that

Laboratory No.
905700

Grubbs, Hoskyn, Barton, & Wyatt, Inc.
Springdale Laboratory
Springdale, AR

Expiration Date:
11/19/15

is certified to perform quality control testing under the specifications shown below, for a time period to expire on the date shown above.

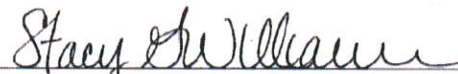
Concrete

AASHTO

M 201 Tanks/Moist Rooms
M 205 Single Use Molds
R 60 Sampling Concrete
T 22 Comp. Strength
T 23 Cylinders

AASHTO

T 119 Slump
T 121 Density
T 152 Air Content
T 231 Capping Cylinders
T 309 Temperature


Director, CTTP



CTTP

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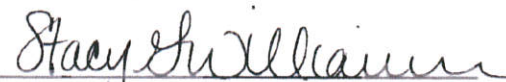
Soil

AASHTO

R 58 Dry Prep
T 89 Liquid Limit
T 90 Plastic Limit
T 99 Standard Proctor

AASHTO

T 146 Wet Prep
T 180 Modified Proctor
T 265 Moisture Content
T 310 Nuclear Density


Director, CTTP

Attachment C

GRUBBS, HOSKYN, BARTON & WYATT, INC.

SUBRA T. BHAT, Ph. D, P.E., Principal/ Manager of Springdale Office

EDUCATION: Bachelor of Science, Civil Engineering, Karnataka Regional Engineering College, Surathkal, India, 1984
Master of Science, Geotechnical Engineering, Indian Institute of Science, Bangalore, India, 1987
Ph.D, Geotechnical Engineering, Purdue University, West Lafayette, Indiana, 1995

REGISTRATION: Professional Engineer: Arkansas, Ohio, Oklahoma

AFFILIATION: American Society of Civil Engineers, National Society of Professional Engineers

EMPLOYMENT SUMMARY:

2004-present Principal/ Manager of Springdale Office
Grubbs, Hoskyn, Barton & Wyatt, Inc.

2002-2004 Manager, Springdale Office
Grubbs, Hoskyn, Barton & Wyatt, Inc.

1999 – 2002 *Senior Project Engineer*
Grubbs, Hoskyn, Barton & Wyatt, Inc.

1997 – 1999 *Project Engineer*
Solar Testing Laboratories, Inc., Cleveland, Ohio

1996 – 1997 *Visiting Assistant Professor*
Purdue University, West Lafayette, Indiana

1987 - 1992 *Scientist*
National Institute of Oceanography, Goa, India

EXPERIENCE AND BACKGROUND:

The professional experience of Dr. Bhat includes more than fifteen (15) years of research, teaching and geotechnical engineering consulting practice. Among the projects that Dr. Bhat has been involved are soil and foundation investigations for a variety of industrial and residential structures, airport structures, elevated water tanks, parking decks, power plants, roadways, highway bridges, waste water treatment plants, water treatment plants, levees, slope stability analysis and failure investigation of embankments and other structures.

Among the projects Dr. Bhat has been involved include William J. Clinton Presidential Center project at Little Rock and numerous highway projects in Arkansas including I-40 bridges, I-30 bridges, failure investigation of US Hwy 70 bridge over Lake Hamilton at Hot Springs and US Hwy 67 relocation project, Perry Road Interchange in Rogers, Pleasant Grove Road overpass in Rogers, South Quad and garland Avenue parking decks at Fayetteville, West Side Waste Water Treatment Plant in Fayetteville, East Collector System in Fayetteville, Carol Ann Cross Dam in Fort Smith, Beaver Water Expansion Project in Lowell, 9-story Legacy Building (condominium) in Fayetteville, 17-story East Square hotel/condominiums in Fayetteville and numerous school, roadway and bridge projects, airport projects, and commercial and residential development projects in northwest Arkansas.

GRUBBS, HOSKYN, BARTON & WYATT, INC.

Kyle A. Bennett, P.E. Project Engineer

EDUCATION: BSCE, University of Arkansas, 2001
MSCE (Geotechnical), University of Arkansas, 2005

REGISTRATION: Registered Professional Engineer, Arkansas

AFFILIATIONS: Chi Epsilon National Civil Engineering Honor Fraternity

EMPLOYMENT SUMMARY: 2005 – Present *Senior Project Engineer*
Grubbs, Hoskyn, Barton & Wyatt, Inc., Springdale, AR
2004 – 2005 *Staff Engineer*
Grubbs, Hoskyn, Barton & Wyatt, Inc., Springdale, AR
2002 – 2004 *Research Assistant*
Major Professor: Dr. Norman D. Dennis, PhD., P.E.
University of Arkansas, Fayetteville, AR

GENERAL EXPERIENCE AND BACKGROUND:

Mr. Bennett's duties have included coordination and scheduling of geotechnical field exploration, evaluation of site conditions, examination of subsurface soil samples and assignment of pertinent laboratory testing, completion of geotechnical engineering analysis and design for foundation, retaining wall, below-grade wall, embankment and pavement recommendations, slope stability analyses, and site construction feasibility studies. Mr. Bennett is responsible for preparation of both large- and small- scale project Geotechnical reports and for developing proposals for Geotechnical studies. Field assignments have included evaluation of undercut requirements, field verification of foundation bearing capacity, field verification of subgrade stability, and drilled pier inspection.

In his capacity as a research assistant at the University of Arkansas, Mr. Bennett designed and assembled a system to evaluate the resilient moduli of pavement systems using the Spectral Analysis of Surface Waves (SASW) technique. Testing of the assembled system included planning and coordination of field-testing at 11 sites throughout the state of Arkansas in conjunction with the Arkansas Highway and Transportation Department.

TECHNICAL PAPERS:

“Determination of Resilient Moduli of Flexible Pavement Systems Using Spectral Analysis of Surface Waves” unpublished MSCE Thesis, University of Arkansas, Fayetteville, Arkansas, 2005.

GRUBBS, HOSKYN, BARTON & WYATT, INC.

TALLEY FAULKNER - Laboratory Supervisor / Radiation Safety Officer / IT Specialist / Senior Engineering Asst.

Certifications & Training:

- Radiation Safety Officer Training
- Gauge Safety Training
- Hazmat
- Basic Aggregates - CTPP
- ACI Concrete Field Testing
- Soils Testing Technician - CTPP
- ACI Concrete Strength Training Technician

Employment Summary:

- 02/13 - Present: Laboratory Supervisor / Radiation Safety Officer / IT Specialist / Senior Engineering Asst.
Grubbs, Hoskyn, Barton & Wyatt, Inc.
- 10/07 - 02/13: Radiation Safety Officer / IT Specialist / Senior Engineering Asst.
Grubbs, Hoskyn, Barton & Wyatt, Inc.
- 08/06 - 10/07: IT Specialist / Engineering Assistant
Grubbs, Hoskyn, Barton & Wyatt, Inc.
- 07/05 - 07/06: Customer Service Representative
Arvest Bank
- 06/02 - 07/05: General Labor
Sara Lee Bakery

Grubbs, Hoskyn, Barton & Wyatt, Inc. - Springdale, Arkansas Office

Duties as Laboratory Supervisor include maintaining all records related to laboratory equipment and calibration, ensuring all in-house and outside calibrations are performed in a timely manner and technician training is current. Duties as Radiation Safety Officer include maintaining all records related to safety/operation of nuclear gauges, yearly leak tests, yearly verification of gauges, quarterly inventory and survey; Duties as Senior Engineering Assistant include reporting concrete break reports, communicating with clients regarding low breaks/etc., preparing boring logs and profiles using gINT and Autocad, maintaining all engineering report filing systems. Duties as IT Specialist include diagnosing and repairing workstation components, maintaining electronic filing backup and antivirus software, maintaining iphones and other smarthphone devices.

GRUBBS, HOSKYN, BARTON & WYATT, INC.

SID AMEDEE, SENIOR MATERIALS TECHNICIAN

TRAINING:

Asphalt mix design, 40 hours.
University of Arkansas, Fayetteville, AR.

Nuclear Training #30393 – Troxler

Asphalt Plant Certification #21
Arkansas Highway Transportation Department.

Basic Aggregates Certification #1092 – CTTTP
Fayetteville.

Hot-Mix Technician #1092, 2001-CTTP

PCC Technician #1092, 2006 CTTTP

Soils/ Aggregates Technician #1092, 2007 CTTTP

National Swimming Pool Foundation
CPO Registration #71-125764

EDUCATION:

Warren Easton High School, Canal Street, New Orleans, LA
Graduated – 1968

L.S.U.N.O., New Orleans, LA
Attended – One year

EMPLOYMENT:

1969-Feb 10, 1972 U.S. Navy, NAS New Orleans, Belle Chasse, LA

Structural Mechanic – Responsible for any structural damage to aircrafts.
Checking and replacing worn tires, fuel lines, etc.

1972-1986 S.J. Amedee Oil, El Dorado, AR

Owner/pumper/operator – Responsible for daily well checks, pulling wells
and everything from book-keeping to road work.

April 1987 - Feb 2001 Jet Asphalt & Rock Co. 1251 Smackover Highway, El Dorado, AR.
Telephone: (870) 863-7801

Senior Lab Technician – Started as shovel hand and worked up to roller
operator, low boy driver, speed operator on lay-down machine. Began as Lab
assistant in 1990 and became certified in mix design, radiation by Troxler,
and by the Arkansas Highway and Transportation Department as Plant
Inspector. Later promoted to Senior Hot-Mix Asphalt Technician. I was

responsible for all testing procedures in the lab, on the road as required by the A.H.T.D., logging equipment in and out, keeping a lab manual on all equipment, keeping plots on all test reports, ordering and trouble shooting of all equipment in the lab. I was also responsible for the training and performance of the lab assistants in the lab and on the road.

- July 2001 – June 2002 Chapel Ridge Apt. Complex, 301 Morewood Road, El Dorado, AR
Telephone: (870) 862-7900
Maintenance Supervisor – Responsible for 72 units, clubhouse and swimming pool. Maintenance includes plumbing, electrical, carpentry, painting and floor repairs in all units. Swimming pool duties include being certified by American Pool Foundation (CPO) and keeping pool maintained to pass inspections by the Arkansas Health Department.
- June 2002 – Feb 2004 Falk Plumbing Supply Company, 1709 W. Hillsboro, El Dorado, AR
Telephone: (870) 862-3406
Joined the Falk team as a counter salesman. This position enabled me to make contact with all the local plumbers and surrounding counties. Duties included inventory, stocking, opening and closing, making deposits and using the Eclipse System on the computer.
- March 2004 – Sept 2004 City of El Dorado, 204 North West Ave., El Dorado, AR
Telephone (870) 863-4244
Street Department
Supervisor: Wes Slaughter
Duties included: General road maintenance, driving city trucks to the appropriate locations, delivering supplies, some supervision of and helping crews with everyday maintenance.
- Sept 2004 – Jan 2005 Willie's Oasis, 13810 Strong Hwy, Strong, AR
Telephone: (870) 797-2042
Liquor Store
Supervisor: Toby Walden, Owner
Duties included: counter sales, general maintenance, plumbing, structural repair, repair and maintenance of all machinery, cooling units, small engines, as well as forklift driving.
- July 7, 2005 – Present Grubbs, Hoskyn, Barton & Wyatt, Inc., 341 W. County Line Rd,
Springdale, AR
Telephone: (479) 756-5999
Started my duties as a Field Technician II with CTTTP certifications, #1092 and Troxler training #30393. Duties included testing concrete, making cylinders, running slumps, and testing for air content. Along with this testing, I also ran grout and mortar test with rebar inspections. Responsible for running field density test using a nuclear gauge and roller patterns on asphalt. Further duties included inspecting drill pier operations and reporting all the results to the engineer.

GRUBBS, HOSKYN, BARTON & WYATT, INC.
341 W. County Line Road
Springdale, AR 72764
Phone: 479-756-5999

JOHNATHAN PARKER – CMT Technician / Technician Supervisor

Certifications & Training:

(CTTP #2900)

- Gauge Safety Training (Troxler)
- ACI - Grade I
- Basic Aggregates
- Soils
- Ultrasonic Level II

Education: High School Diploma.

Employment Summary:

- 4/14 - Present: Field Technician
Grubbs, Hoskyn, Barton & Wyatt, Inc.

Grubbs, Hoskyn, Barton & Wyatt, Inc. - Springdale, Arkansas Office

Duties include testing concrete, making cylinders, running slumps, and testing for air content, grout and mortar testing. Responsible for running field density test using a nuclear gauge and roller patterns on asphalt. Further duties include laboratory testing which includes Proctors, concrete cylinder breaks, gradation and soil classification tests. Mr. Parker has worked on various AHTD roadway projects and large scale developments.

- 1/10 - 4/14: Technician
GTS, Inc.

GTS, Inc.

Duties included testing concrete, making cylinders, running slumps, and testing for air content, grout and mortar testing. Responsible for running field density test using a nuclear gauge and roller patterns on asphalt. Further duties include laboratory testing which includes Proctors, concrete cylinder breaks, gradation and soil classification tests. Also bid jobs and performed rebar inspection and undercut observations.

GRUBBS, HOSKYN, BARTON & WYATT, INC.

**341 W. County Line Road
Springdale, AR 72764
Phone: 479-756-5999**

GARRETT STAGGS – Senior Technician

Certifications & Training:

(CTTP #3120)

- Gauge Safety Training (Troxler)
- ACI - Grade I
- Basic Aggregates
- Soils
- Asphalt

Education: High School Diploma.

Employment Summary:

- 4/14 - Present: Field Technician
Grubbs, Hoskyn, Barton & Wyatt, Inc.

Grubbs, Hoskyn, Barton & Wyatt, Inc. - Springdale, Arkansas Office

Duties include testing concrete, making cylinders, running slumps, and testing for air content, grout and mortar testing. Responsible for running field density test using a nuclear gauge and roller patterns on asphalt. Further duties include laboratory testing which includes Proctors, concrete cylinder breaks, gradation and soil classification tests. Mr. Parker has worked on various AHTD roadway projects and large scale developments.

- 9/12 - 4/14: Technician
GTS, Inc.

GTS, Inc.

Duties included testing concrete, making cylinders, running slumps, and testing for air content, grout and mortar testing. Responsible for running field density test using a nuclear gauge and roller patterns on asphalt. Further duties include laboratory testing which includes Proctors, concrete cylinder breaks, gradation and soil classification tests. Also bid jobs and performed rebar inspection and undercut observations.

Attachment D

Cost Estimate for Construction Materials Testing Services
Contract Section 1: Office Facilities and Site Improvements - Transfer Station &
Material Recovery Facility Expansion; Recycling & Trash Collection Division
Fayetteville, AR

GHBW Proposal No. SP15-080

Anticipated Scope of Services

Building Additions

- Site Grading/Density
- Drilled Piers
- Rebars for grade beams
- Slab-on-grade
- Structural Steel

Pavements

- Undercut & proof-roll
- Densities
- Hot-mix asphalt testing and core densities
- Concrete testing for concrete paving (staging area)
- Concrete testing for curb and gutter, and sidewalks

Laboratory Testing

- Proctors & Classification tests
- Concrete cylinder breaks
- Asphalt hot-mix & cores
- Bioretention Soil Testing

Consultation

- as-needed basis

Reports

- for all the above services

Cost Estimate Detail

1. Pre-Construction Meeting	
Principal: 2.5 hrs x \$125/hr	= \$312.50
2. Building Addition	
A. Site Grading (densities)	
4 visits x 2 hrs/visit x \$55/hr	= \$440
B. Drilled Piers	
Technician Supervisor	
5 days x 10 hrs/day x \$65/hr	= \$3,250
C. Rebars for grade beams	
Senior Project Engineer	
5 visits x 2 hrs/visit x \$95/hr	= \$950
D. Slab-on-grade	
Senior Project Engineer	
2 visits x 2 hrs/visit x \$95/hr	= \$380

E.	Concrete CMT Technician 10 visits x 2 hrs/visit x \$55/hr	= \$1,100
F.	Structural Steel Steel Inspector 4 visits x 3 hrs/visit x \$75/hr	= \$900
3.	Pavements	
A.	Proof-roll and Undercuts Senior Project Engineer 10 visits x 2.5 hrs/visit x \$95/hr	= \$2,375
B.	Densities CMT Technician 30 visits x 2.5 hrs/visit x \$55/hr	= \$4,125
C.	Asphalt - Hot-mix Senior Technician 2 days x 8 hrs/day x \$60/hr Core machine & generator 2 days x \$150/day	= \$960 = \$300
D.	Concrete Pavement CMT Technician 1 visit x 4 hrs/visit x \$55/hr	= \$220
4.	Concrete for curb and gutter, and sidewalks CMT Technician 8 visits x 2.5 hrs/visit x \$55/hr Pick up cylinders 2 visits x 1 hr/visit x \$55/hr	= \$1,100 = \$110
5.	Trip Charges 92 trips x 27 miles/trip x \$0.50/mi	= \$1,242
6.	Laboratory Testing Proctors & Classifications Cylinder Breaks 20 sets x 4 cyl/set x \$14/cyl Asphalt Cores 6 cores x \$20/core Bioretention soil testing	= \$500 = \$1,120 = \$120 = \$500
7.	Consultation & Meetings Principal 10 hrs x \$125/hr	= \$1,250
8.	Reports Review Principal 35 reports x 0.50 hr/report x \$125/hr Word Processing & Report Preparation 35 reports x 0.50 hr/report x \$45/hr	= \$2,187.50 = \$787.50
		<hr/>
		Total = \$24,229.50
		Estimated Cost = ~ \$25,000

Attachment E

**STANDARD FEES AND GENERAL CONDITIONS FOR
ENGINEERING AND TECHNICAL SERVICES**

1. Client

Client, as used herein, is the entity who authorized performance of services by Grubbs, Hoskyn, Barton & Wyatt, Inc. and accepts responsibility for payment under the conditions stated herein.

2. Professional Services and Fees

2.1 Analysis, consultation and report preparation. Fees for our professional services are included in the attached proposal.

2.2 Reimbursable expenses. Expenses other than salary costs that are directly attributable to performance of our professional services are billed as follows:

- a) for report reproduction by our graphics department, charges equivalent to commercial rates for similar commercial service; schedule available upon request
- b) for transportation in our company automobiles, \$0.50 per mile
- c) for all other expenses, included but not limited to, authorized travel, sample shipment, subcontracts, consulting fees, long distance communications, outside reproduction, and mailing expense, cost plus 15 percent

3. General Conditions

3.1 On-site Responsibilities and Risks

- a) **Right-of-Entry.** Unless otherwise agreed, Client will furnish right-of-entry and obtain permits, as required, for us to perform the field work.
- b) **Damage to Property.** We will take reasonable precautions to minimize damage to land and underground property caused by our operations, but we have not included in our fee the cost of repairing such damage. If Client desires us to repair and/or pay for damages, we will undertake the repairs and add the cost to our fee.
- c) **Toxic and Hazardous Materials.** Client will provide us with all information within his possession of knowledge as to the potential occurrence of toxic or hazardous materials at the site being investigated. If unanticipated toxic or hazardous materials are encountered, we reserve the right to demobilize our field operations at Client's expense. Remobilization will proceed following consultation with our safety coordinator and Client's acceptance of proposed safety measures and fee adjustments.
- d) **Utilities and Pipelines.** While performing our field work, we will take reasonable precautions to avoid damage to subterranean and subaqueous structures, pipelines, and utilities. Client agrees to hold Grubbs, Hoskyn, Barton & Wyatt, Inc. and its officers, agents, employees, and subcontractors harmless for any damages to such structures, pipelines, and utilities which are not called to our attention and correctly shown on the plans furnished.

3.2 Warranty

- a) Services performed by Grubbs, Hoskyn, Barton & Wyatt, Inc. will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, either expressed or implied, is made or intended by our proposal, contract, or reports.
- b) Client acknowledges that conditions may vary from those encountered at the location where borings, surveys, or explorations are made and that our data, interpretations and recommendations are based solely on the information available to us. We will be responsible for our data, interpretations, and recommendations, but shall not be responsible for the interpretation by others of the information developed.

3.3 Liability

Our liability to Client for injury or damage to persons or property arising out of work performed for Client and for which legal liability may be found to rest upon us, other than for professional errors and omissions, will be limited to our general liability coverage. For any damage caused by an error, omission, or other professional negligence, our liability will be limited to a sum not to exceed \$50,000 or our fee less direct third-party costs, whichever is greater. In the event that Client does not wish to limit our professional liability to this sum, we agree to waive this limitation upon receiving Client's written request, and Client agrees to pay an additional consideration of 4 percent of our total fee or \$500, whichever is greater.

3.4 Invoices and Payment

Invoices will be submitted every four (4) weeks for services rendered. Payment is due upon presentation of our invoice and is past due thirty (30) days from invoice date. Payment of our invoice(s) is not contingent upon Client receiving payment from a third party. Client agrees to pay a finance charge of one percent (1%) per month (or the maximum rate allowable by law, whichever is less), on past due accounts. Any attorney's fees or other cost incurred in collecting a delinquent amount shall be paid by Client.

3.5 Samples

All samples of soil and rock will be discarded thirty (30) days after submission of our report, unless Client advises us otherwise. Upon request, we will deliver the samples in accordance with Client's instructions, charges collect, or will store them for an agreed charge.

3.6 Records

All pertinent records relating to services performed hereunder shall be retained for three (3) years after completion of the work. Client shall have access to the records at all reasonable times during said period.

4. Related Services

Additional services that are frequently required for support of our professional activities are normally provided by one of the technical divisions of Grubbs, Hoskyn, Barton & Wyatt, Inc. Applicable charges are given in one or more schedules of the following series:

- 4.1** Laboratory Testing Fees
- 4.2** Field Charges for Foundation Investigations
- 4.3** Rates for Construction Surveillance and Consultation

LABORATORY AND FIELD TESTING FEES

<u>Test No.</u>	<u>Unit Price</u>
1. CEMENT TESTS	Quoted on Request
2. AGGREGATE TESTS	
<u>Grain Size Tests</u>	
2.1. Sieve analysis fine aggregate and soils, through #200 sieve, each sample	\$ 50.00
2.2. Percent passing a single sieve, each	\$ 30.00
2.3. Grain size tests, coarse aggregate over 5 lb sample weight.....	\$ 120.00
<u>Properties</u>	
2.5. Specific gravity, per ASTM C128 for fine aggregate, each sample	\$ 60.00
2.6. Specific gravity, per ASTM C127 for coarse aggregate, each sample	\$ 40.00
2.7. Unit weight, each sample.....	\$ 40.00
2.8. Absorption, each sample.....	\$ 12.00
2.9. Organic impurities, each sample (ASTM C40)	\$ 40.00
2.10. Soft particle, each sample (ASTM C142).....	\$ 80.00
2.11. Sand equivalent, each sample	\$ 120.00
2.12. Flat and elongated particles, each sample (ASTM D4791)	\$ 90.00
<u>Abrasion</u>	
* 2.12.1. Los Angeles Machine (ASTM C 131), each sample	\$ 225.00
* 2.12.2 Los Angeles Machine (ASTM C 535), each sample	\$ 350.00
2.12.3. Crushing and preparing sample, if required.....	\$ 75.00
<u>Soundness</u>	
* 2.13. Sulfate or Magnesium soundness test (5 cycles)	\$ 500.00
3. CONCRETE STRENGTH TESTS	
<u>Concrete, Mortar or Grout Compressive Strength</u>	
3.1. Cylinder compressive strength test, each.....	\$ 10.00
3.2. Saw cutting cylinder for capping, each.....	\$ 10.00
3.3. Cube compressive strength, each.....	\$ 10.00
<u>Beam Flexural Strength</u>	
3.4. Beam flexural strength test, each.....	\$ 20.00
3.5. "Hold" specimens processed, but not tested, each.....	\$ 15.00
<u>Strength Estimate</u>	
3.6. Schmidt concrete test hammer	Quoted on Request
3.7. Windsor probe test, \$30.00 per location (probe costs) plus hourly rate	Quoted on Request
4. CONCRETE MIX DESIGNS	
4.1. Compute mix design using previously determined aggregate properties, each.....	Engineer Hourly Rate
4.2. Provide mix design/check contractors mix design by preparing trial batch mix using aggregate, admixtures, and cement furnished for use on project, each batch or each curve point	Technician Hourly Rate

4.3. Confirmatory cylinders made in connection with mix design, each.....\$ 10.50

All tests of aggregates, cement and admixtures to determine the basic physical properties and suitability are charged separately.

5. **CORING SERVICES** Quoted on Request

6. **CORE TESTS**

6.1. Capping and testing of cores (with sawing ends), each.....\$ 20.00

7. **SOIL AND BASE MATERIAL TESTS**

Classification and Index Tests

7.1.	Water content, per sample.....	\$ 5.00
7.2.	Liquid and plastic limits, per sample	
7.2.1	Method B dry preparation.....	\$ 40.00
7.2.2	Method B wet preparation	\$ 75.00
7.3.	Unit dry weight of sample.....	\$ 15.00
7.4.	Specific gravity	\$ 40.00
7.5.	Sieve analysis through #200 sieve, per sample.....	\$ 50.00
7.6.	Percent passing a single sieve, each.....	\$ 30.00
7.7.	Hydrometer test, each	\$ 100.00
7.8.	Double hydrometer, per sample.....	\$ 150.00
* 7.9.	Permeability of sand, constant head	\$ 200.00
* 7.10.	Permeability of silt or clay, falling head	\$ 150.00
* 7.11.	Permeability – Flexwall Test (undisturbed sample)	\$ 210.00
* 7.12.	Permeability – Flexwall Test (remolded sample)	\$ 250.00
* 7.13.	Laboratory soil resistivity	\$ 85.00
* 7.14.	pH	\$ 30.00
7.15.	Saw Cut Shelby Tube.....	\$ 30.00
7.15.1.	Shelby Tubes for permeability samples, each	35.00
7.16.	Preparation of sample or base material binder, each	\$ 50.00
7.17.	Sample preparation for soil with admixture, including admixtures and curing, per hour	\$ 65.00

Compaction and Control Tests

7.18.	Optimum moisture and density relationship	
7.18.1.	Standard compaction effort, per sample	\$ 120.00
7.18.2.	Modified compaction effort, per sample.....	\$ 140.00
7.19.	Laboratory relative density using vibratory table.....	\$ 150.00
7.20.	In-place density and moisture using nuclear equipment	Included In Hourly Technician Rate
7.21.	Lime modification optimum (LMO).....	Quoted on Request
7.22.	Sample preparation: soil mixtures and curing, per hour.....	\$ 65.00

Strength Tests

7.23.	California bearing ratio (CBR), per specimen (Proctor cost NOT included).....	\$ 170.00
7.24.	Sample preparation: soil admixtures and curing for compaction and strength tests, per hour	\$ 65.00
7.25.	Soil-cement or soil-lime tests	Quoted on request
7.26.	Unconfined compression, soil	\$ 30.00
7.27.	Unconfined compression, rock (with saw cutting cost).....	\$ 45.00

7.28.	Unconsolidated-undrained – triaxial	\$ 35.00
* 7.29.	Consolidated-undrained – triaxial	Quoted on Request
* 7.30.	Consolidated-drained – triaxial	Quoted on Request
* 7.31.	Consolidated-drained – direct shear	\$ 200.00
* 7.32.	Residual strength – direct shear	\$ 300.00
* 7.33.	Multi-stage test for triaxial or direct shear	Two Times Test Price

Volume Change Tests

* 7.33.	Consolidation	\$ 250.00
* 7.34.	Swell test, swell pressure and percent swell	\$ 150.00

8. ASPHALTIC CONCRETE MIX DESIGNS

* 8.1.	Provide mix design using aggregates and asphalt furnished for use on project, Marshall Method.....	\$2,500.00
* 8.2.	Compute mix design using previously determined aggregate properties such as gradation, specific gravity, and other design factors, each.....	Hourly Rate

9. ASPHALTIC CONCRETE TESTS

9.1.	Molding test specimens, each specimen	\$ 40.00
9.2.	Determine laboratory density or percent voids, each specimen	\$ 20.00
9.3.	Determine Marshall stability and flow value, each specimen	\$ 40.00
9.4.	Maximum theoretical specific gravity	\$ 60.00
9.5.	Extraction (percent of bitumen and aggregate gradation)	\$ 185.00
9.6.	Laboratory density on field-cut specimen trimmed to size in laboratory (field cutting of specimens are charged separately)	\$ 20.00
9.7.	In-place density of asphalt course using nuclear equipment.....	Hourly Rate

10. MASONRY TESTS**Masonry Compressive Strength**

10.1.	Mortar cube compressive strength, each.....	\$10.00
10.2.	Masonry grout compressive strength, each.....	\$10.00
* 10.3.	Masonry prism strength, each.....	\$85.00
* 10.4.	Masonry unit block strength, each.....	\$40.00

Masonry Mortar Mix Verification

* 10.5	Mix preparation and casting cubes per ASTM C-270 with flow test, each set (does not include strength test cost).....	\$120.00
* 10.6	Water retention test (does not include mix preparation cost).....	\$60.00

11. SPECIAL TESTS

Tests not listed above are performed, whether outside our laboratory at cost plus 15 percent or on an hourly basis (see Schedule 46.02 for Hourly Rates for Engineering and Technical Personnel).

- (1) Securing samples at local projects, plant or from supplier's stock will be charged at an hourly rate for the technician plus travel at \$0.50 per mile.
- (2) Rush assignments requiring unscheduled overtime are subject to a 50 percent surcharge.

* These tests are performed only in our Little Rock Laboratory. Additional charges for shipping or transporting samples from our Springdale Laboratory may be applicable.

**HOURLY RATES FOR
ENGINEERING AND TECHNICAL PERSONNEL**

	Hourly Rates
Senior Principal.....	\$125 to \$165
Principals	\$110 to \$140
Engineer Managers	\$95 to \$120
Sr. Project Engineers.....	\$95 to \$120
Project Engineers	\$85 to \$105
Staff Engineers.....	\$65 to \$85
Technician Supervisor	\$65 to \$85
Senior Technicians.....	\$55 to \$65
CMT or Geotechnical Technicians	\$50 to \$60
Engineering Aides and Draftspersons.....	\$35 to \$50

NOTES:

- (1) Full-time construction surveillance will be quoted at weekly or monthly rates on a job-by-job basis.