

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
Proposal Number: BC-03-17-11-25
Opening Date: Thursday, March 17, 2011 at 2:00 PM

PROPOSAL RESPONSE COVER SHEET

THIS PAGE IS TO BE COMPLETED AND INCLUDED AS THE COVER SHEET FOR YOUR RESPONSE TO THE REQUEST FOR PROPOSALS.

The Board of County Commissioners, Leon County, reserves the right to accept or reject any and/or all bids in the best interest of Leon County.

Keith M. Roberts, Purchasing Director

John Dailey, Chairman
Leon County Board of County Commissioners

This bid response is submitted by the below named firm/individual by the undersigned authorized representative.

BY H.W. Lochner, Inc.
(Firm Name)

(Authorized Representative)
David Freni
(Printed or Typed Name)
ADDRESS 2940 East Park Avenue
Suite 200
CITY, STATE, ZIP Tallahassee, FL 32301
TELEPHONE 850.656.9027
FAX 850.656.9028

ADDENDA ACKNOWLEDGMENTS: (IF APPLICABLE)

Addendum #1 dated _____ Initials _____ Addendum #3 dated _____ Initials _____
Addendum #2 dated _____ Initials _____ Addendum #4 dated _____ Initials _____

PLEASE MARK WHICH CATEGORIES FOR WHICH YOU WISH TO BE CONSIDERED:

- | | |
|--|--|
| <input checked="" type="checkbox"/> a. Stormwater Engineering | <input type="checkbox"/> h. Surveying |
| <input checked="" type="checkbox"/> b. Roadway Design | <input type="checkbox"/> i. Subdivision and Site Development Engineering |
| <input checked="" type="checkbox"/> c. Traffic and Intersection Engineering | <input type="checkbox"/> j. Parks and Recreational Facility Engineering |
| <input checked="" type="checkbox"/> d. Structural Engineering | <input type="checkbox"/> k. Utility Engineering |
| <input type="checkbox"/> e. Geotechnical Services | |
| <input type="checkbox"/> f. Environmental Support Services | |
| <input type="checkbox"/> g. Construction Engineering and Inspection Services | |

LOCHNER

H.W. Lochner, Inc.
2940 East Park Avenue
Suite 200
Tallahassee, FL 32301

T 850.656.9027
F 850.656.9028

hwlochner.com

March 17, 2011

Mr. Keith Roberts
Purchasing Division
Leon County
1800-3 Blair Stone Road
Tallahassee, FL 32308

**Reference: Technical Proposal Submittal
Civil Engineering Services, Continuing Supply
Proposal Number BC-03-17-11-25**

Dear Mr. Roberts:

Lochner is pleased to present our Team's qualifications for providing engineering services under the Civil Engineering Services, Continuing Supply contract. We are pursuing the four work categories of Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, and Structural Engineering. This submittal includes one original package containing all four work categories and three copies of the specific category packages for each of the four work categories we are pursuing (thirteen total packages).

We offer Leon County an experienced, local team of professionals who are excited about this opportunity to work with you. I will serve as the project manager for this contract and look forward to presenting our team to you in more detail during the presentation phase of the evaluation process.

Sincerely,
H.W. Lochner, Inc.


David A. Freni, PE
Vice President



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Stormwater Engineering

Roadway Design

Traffic and Intersection Engineering

Structural Engineering

A. Contractor Information

Firm Name, Business Address/Office Location, Telephone Number

Corporate Headquarters: H.W. Lochner, Inc.
20 North Wacker Drive, Suite 1200
Chicago, IL 60606
800.327.7346

Joint Venture Information Not Applicable

Address of Office to Perform Work

Tallahassee Office: H.W. Lochner, Inc.
2940 East Park Avenue, Suite 200
Tallahassee, FL 32301

Contact Person David Freni
850.656.9027
dfreni@hwlochner.com

Federal Tax Identification Number 36-2338811

B. Executive Summary

Firm History

In 1944, **H.W. Lochner, Inc.** was founded by Harry Lochner, Sr., who was dedicated to delivering exemplary service and the best solutions to our clients. Through the years, **Lochner** has adapted to new technologies, needs, and services, but our core values to enhance people's lives through sustainable infrastructure still remain the same.

Lochner is a strong firm, where good people collaborate to meet challenges as the world changes and new opportunities surface. We work toward building and improving infrastructure by providing innovative solutions in planning, engineering, construction, and alternative delivery services.

Today **Lochner** is a firm of 600 employees with 30 offices in 18 states; we are still independently-owned, operated, and considered an innovator in transportation and infrastructure solutions; and our ongoing accomplishments have contributed to a well-deserved reputation as a top consulting firm that currently ranks #17 in Road & Bridges List of Top Bridge Design Firms, #19 in Road & Bridges List of Top Design-Build Firms; and #143 in Engineering News Record's (ENR) List of 500 Top Design Firms.

Firm Capabilities

Lochner provides engineering, planning, and consulting services to public sector clients across the country, including many local government agencies like **Leon County**. Our services include:

- Highway and Roadway Design
- Structural Design
- Rail and Transit
- Construction Management and CEI
- Airport Planning and Design
- Multi-Modal Planning and Design
- Hydraulics and Drainage Design
- Public-Private Partnership (P3)
- Design-Build
- Public Involvement
- Context Sensitive Solutions
- Planning and Environmental
- Brownfield Services
- Utility Coordination and Relocation
- Traffic Engineering and Planning
- Architecture
- Landscape Architecture
- Parks and Recreation Planning and Design
- Mechanical and Electrical
- Federal Services
- Municipal Services

Understanding Scope and Responsibilities

We have reviewed the Scope of Services and discussed this contract with Leon County Public Works Department staff, including Mr. Tony Park, PE and Mr. Charles Wu, PE. We understand this contract is focused on small to medium size assignments and that firms must be well organized, well prepared, and ready to perform at a moment's notice.

As a past and current holder of many Continuing Engineering Services Contracts in Florida, including currently the City of Tallahassee and the Florida Department of Transportation District 3, **Lochner** fully understands the nature of task work order driven contracts and the types of assignments that may be anticipated under them. We have learned the best ways to

structure individual task work orders to provide you with maximum flexibility and responsiveness in the most cost-effective manner.

Responsible Office and Point of Contact

Lochner's Tallahassee Office will serve as the lead office and **Mr. David A. Freni, PE** will serve as the Project Director and Primary Point of Contact for **Leon County** on this Civil Engineering Services Continuing Supply Contract. David has 18 years of design and project management experience in Northwest Florida, including seven years as senior project manager on the General Engineering Consultant (GEC) Contract for FDOT District 3. David has lived in Tallahassee for more than 10 years and during this time has successfully managed and designed several projects in **Leon County**. He has the professional experience, technical expertise, and a client friendly personality that will ensure a job well done for you.

Distinctive Competitive Attributes

What sets our team apart from the others is simple – our tested and proven commitment for delivering quality, on-time services to our clients. The **Lochner Team** is available now to serve you on this contract and we will continue to demonstrate the same responsiveness that all of our clients are accustomed to receiving from us.

- We offer **Leon County** an experienced project management, team-focused staff, and partnering firms familiar with the key issues. We will spread the work and contribute toward your W/MBE utilization goals by partnering with the trusted and local firms of Diversified Design and Drafting Services (3DS), Environmental and Geotechnical Specialists (EGS), and Hamilton Smith and Associates (HSA).
- We offer **Leon County** a local staff that have lived and worked here for many years and have a vested interest in maintaining and improving the quality of our local community. Our office is strategically and conveniently located just two miles from the **Leon County Public Works Department** and three miles from the **Leon County Commission Chambers**.
- We offer **Leon County** large company resources and small company personal service. Our services and products will exceed your expectations.
- Our firm has never provided professional services directly to Leon County, and we very much want to be given an opportunity to prove ourselves to you, and to establish and grow what we hope will be a long and mutually beneficial professional relationship.

We at **Lochner** would be honored to be **Leon County's** partner in accomplishing your mission to provide safety, mobility, prosperity, and an improved quality of life for our community. This response to the RFP is in all respects fair and in good faith without collusion or fraud and I have the authority to bind principal proponent. I look forward to the opportunity of presenting our qualifications to you in more detail.

Sincerely,



David A. Freni, PE, Vice-President and Tallahassee Office Manager

C. Required Forms

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
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**AFFIDAVIT CERTIFICATION
IMMIGRATION LAWS**

Leon County will not intentionally award County contracts to any contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in 8 U.S.C. Section 1324 A(e) (Section 274a(e) of the Immigration and Nationality Act ("INA")).

Leon County may consider the employment by any Contractor of Unauthorized Aliens a violation of Section 274A(e) of the INA. **Such violation by the Recipient of the employment provision contained in Section 274A(e) of the INA shall be ground for unilateral cancellation of the contract by Leon County.**

BIDDER ATTESTS THAT THEY ARE FULLY COMPLIANT WITH ALL APPLICABLE IMMIGRATION LAWS (SPECIFICALLY TO THE 1986 IMMIGRATION ACT AND SUBSEQUENT AMENDMENTS).

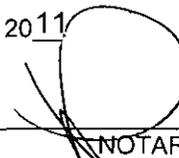
Company Name: H.W. Lochner, Inc.

Signature:  Title: Vice President

STATE OF Florida
COUNTY OF Leon

Sworn to and subscribed before me this 14 day of March, 2011

Personally known X


NOTARY PUBLIC

OR Produced identification _____

Notary Public - State of Florida

(Type of identification) _____ My commission expires: 08/20/2013
Jennifer P. Hodges



Printed, typed, or stamped
commissioned name of notary public

The signee of this Affidavit guarantees, as evidenced by the sworn affidavit required herein, the truth and accuracy of this affidavit to interrogatories hereinafter made.

**LEON COUNTY RESERVES THE RIGHT TO REQUEST SUPPORTING DOCUMENTATION,
AS EVIDENCE OF SERVICES PROVIDED, AT ANY TIME.**

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EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT

1. The contractors and all subcontractors hereby agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.
2. The contractor agrees to comply with Executive Order 11246, as amended, and to comply with specific affirmative action obligations contained therein.

Signed:



Title:

Vice President

Firm:

H.W. Lochner, Inc.

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INSURANCE CERTIFICATION FORM

To indicate that Bidder/Respondent understands and is able to comply with the required insurance, as stated in the bid/RFP document, Bidder/Respondent shall submit this insurances sign-off form, signed by the company Risk Manager or authorized manager with risk authority.

- A. Is/are the insurer(s) to be used for all required insurance (except Workers' Compensation) listed by Best with a rating of no less than A:VII?

YES NO

Commercial General
Liability:

Indicate Best Rating:
Indicate Best Financial Classification:

A+
XV

Business Auto:

Indicate Best Rating:
Indicate Best Financial Classification:

A+
XV

Professional Liability:

Indicate Best Rating:
Indicate Best Financial Classification:

A
XV

1. Is the insurer to be used for Workers' Compensation insurance listed by Best with a rating of no less than A:VII?

YES NO

Indicate Best Rating:

Indicate Best Financial Classification:

XV A+

If answer is NO, provide name and address of insurer:

2. Is the Respondent able to obtain insurance in the following limits (next page) for this professional services agreement?

YES NO

Insurance will be placed with Florida admitted insurers unless otherwise accepted by Leon County. Insurers will have A.M. Best ratings of no less than A:VII unless otherwise accepted by Leon County.

Required Coverage and Limits

The required types and limits of coverage for this bid/request for proposals are contained within the solicitation package. Be sure to carefully review and ascertain that bidder/proposer either has coverage or will place coverage at these or higher levels.

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Required Policy Endorsements and Documentation

Certificate of Insurance will be provided evidencing placement of each insurance policy responding to requirements of the contract.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the County. At the option of the County, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the County, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Endorsements to insurance policies will be provided as follows:

Additional insured (Leon County, Florida, its Officers, employees and volunteers) -
General Liability & Automobile Liability

Primary and not contributing coverage-
General Liability & Automobile Liability

Waiver of Subrogation (Leon County, Florida, its officers, employees and volunteers)- General
Liability, Automobile Liability, Workers' Compensation and Employer's Liability

Thirty days advance written notice of cancellation to County - General Liability,
Automobile Liability, Worker's Compensation & Employer's Liability.

Professional Liability Policy Declaration sheet as well as claims procedures for each applicable policy to be provided

Please mark the appropriate box:

Coverage is in place Coverage will be placed, without exception

The undersigned declares under penalty of perjury that all of the above insurer information is true and correct.

Name David Freni
Typed or Printed

Signature 

Date 3/17/11

Title Vice-President
(Company Risk Manager or Manager with Risk

Authority)

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**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,
And OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS**

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b) Have not within a three-year period preceding this been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of these offenses enumerated in paragraph (1)(b) of this certification; and
 - d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.
3. No subcontract will be issued for this project to any party which is debarred or suspended from eligibility to receive federally funded contracts.



Signature

Vice President

Title

H.W. Lochner, Inc.

Contractor/Firm

2940 E. Park Avenue, Suite 200, Tallahassee, FL 32301

Address

LOCAL VENDOR CERTIFICATION

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

- a) Has had a fixed office or distribution point located in and having a street address within Leon, Gadsden, Wakulla, or Jefferson County for at least six (6) months immediately prior to the issuance of the request for competitive bids or request for proposals by the County; and
- b) Holds any business license required by Leon County (or one of the other local counties), and, if applicable, the City of Tallahassee; and
- c) Is the principal offeror who is a single offeror; a business which is the prime contractor and not a subcontractor; or a partner or joint venturer submitting an offer in conjunction with other businesses.

Please complete the following in support of the self-certification and submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name: H.W. Lochner, Inc.	
Current Local Address: 2940 East Park Avenue Suite 200 Tallahassee, FL 32301	Phone: 850.656.9027 Fax: 850.656.9028
If the above address has been for less than six months, please provide the prior address. n/a	
Length of time at this address:	
Home Office Address: 20 North Wacker Drive Suite 1200 Chicago, IL 60606	Phone: 312.372.7346 Fax: 312.372.8208

Signature of Authorized Representative

Date 3/14/11

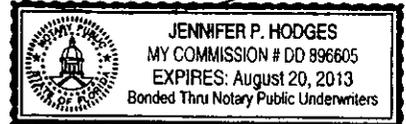
STATE OF Florida
COUNTY OF Leon

The foregoing instrument was acknowledged before me this 14 day of March, 2011.

By David Freni, of H.W. Lochner, Inc.
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

a _____ corporation, on behalf of the corporation. He/she is personally known to me
(State or place of incorporation)

or has produced _____ as identification.
(type of identification)



Signature of Notary

Jennifer P. Hodges
Print, Type or Stamp Name of Notary

Administrative Assistant
Title or Rank

n/a
Serial Number, If Any

Return Completed form with supporting documents to:
Leon County Purchasing Division
1800-3 Blair Stone Road
Tallahassee, Florida 32308



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Stormwater Engineering

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A. Ability of Professional Personnel

People Resources

Lochner currently has 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering. With our project manager (David Freni, PE), a roadway design group and drainage design group capable of performing the full range of services within these disciplines, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

All Roadway Design and Stormwater Engineering services will be provided by our Tallahassee office staff. Some Traffic and Intersection Engineering services will be supported by our Clearwater office, particularly by way of providing traffic analysis, signal design, and lighting design. All Structural Engineering services will be supported by our Clearwater and Lexington offices.

As you will see in the staff resumes and statements of project experience that follow, our proposed **Lochner Team** has a vast amount of experience working together successfully on projects here in Leon County. Our team is organized to be responsive to the needs of Leon County by providing the resources necessary to address all of the work assignments anticipated under this contract.

Additionally, depending upon the scope and work mix of the assignments, we are capable of assigning up to six teams to work on projects under this contract at any one time. Ultimately, our project manager, David Freni, has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.

Technical Resources

In the 1960s **Lochner** developed early engineering software with applications for highway geometry, drainage, earthwork, and bridge design. One of the first comprehensive highway design software systems called HDPS was developed by **Lochner**. HDPS was endorsed by FHWA and many state DOTs.

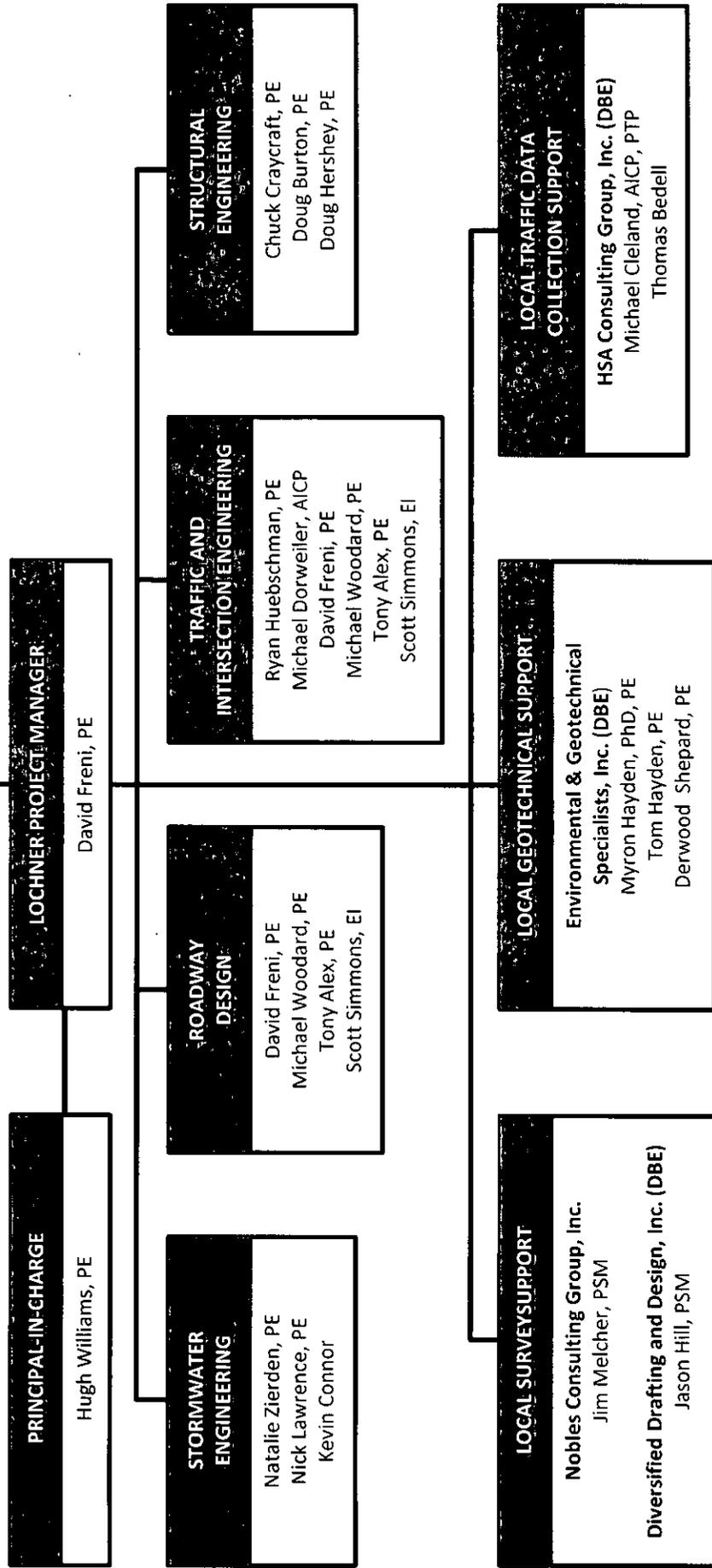
Today **Lochner** has extensive experience in developing and implementing production and design programs for various governmental agencies. We utilize the latest and greatest design programs and equipment to efficiently provide our clients with high quality products. Our primary roadway design software is Microstation and AutoCadd, making use of the most current FDOT Site Menus; For drainage and stormwater modeling we use Geopak Drainage, ASAD, HECRAS, ICPR, and Hydraflow; For bridge design we use Conspan, RC-Pier, MDX, STAAD, FB-Multiplier, PCA Column, and other FDOT programs that utilize Mathcad. While **Lochner** has already demonstrated its competence in the above software to clients, we understand the need to remain current with new software releases and design techniques as they become available, and commit ourselves to seeking every avenue that will bring a better final product to our clients.

Civil Engineering Services

Continuing Supply

Proposal Number BC-03-17-11-25

Organizational Chart



LOCHNER

Hugh Williams, PE

Principal-In-Charge Quality Assurance

Mr. Hugh Williams, PE, is a Senior Project Manager and one of Lochner's Vice Presidents. He joined Lochner in 1986, bringing with him 11 years' prior experience in transportation engineering. Mr. Williams has a broad managerial and roadway engineering background, encompassing both project development and environment (PD&E) studies and final design projects. He has served as Project Manager or Task Leader for projects involving the new construction, reconstruction and/or rehabilitation of urban arterials, rural expressways, interstate highways, interchanges and intersections, railroad facilities, and airport taxiways. Mr. Williams has particular expertise in the development of traffic control and construction staging plans for complex projects in densely populated areas. Mr. Williams is a highly experienced project manager. He has led many high-profile PD&E studies and transportation design projects requiring the coordination, scheduling, and oversight of multi-disciplinary engineering staff and large subconsultant teams. Such projects include the design of improvements to the SR 102/International Airport Boulevard interchange in Jacksonville, Florida, which was named 'Urban Interchange Project of the Year' by the Florida Road Builders Association. He has also led a number of environmentally sensitive projects, notably including the PD&E study for a proposed 24-mile expressway/arterial in Walton and Bay Counties, Florida, predominantly on new alignment, with a high-level bridge over the Intracoastal Waterway.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Project Manager and EOR

SR 83 (US 331) from US 98 to Choctawhatchee Bridge, Walton County, FL, Florida Department of Transportation-District 3, Project Development & Environment Study and Final Design of roadway, drainage, structures, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans for reconstruction of 1.5 miles of existing two-lane rural arterial roadway to a four-lane divided urban arterial roadway.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Project Manager and EOR

Districtwide Miscellaneous Design Drainage Consultant, Florida Department of Transportation-District 3, Provided drainage design and a wide variety of hydrologic and hydraulic services.

Principal-in-Charge

Years of Experience:

36

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1976

Professional Registration:

Professional Engineer: FL #23034

Professional Engineer: TX #TBD

Professional Engineer: GA #032302

Professional Organizations:

Florida Engineering Society

National Society of Professional Engineers

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development
- Construction Phasing Plans
- Design Management
- Design Study Reports
- Environmental Assessments
- Environmental Impact Statements
- Environmental Studies
- Freeway Design
- Government and Agency Coordination
- Hydraulic Design
- Hydrology
- Interchange Design
- Intersection Design
- Local Street Improvements
- Park and Ride Lots
- Parking Lot and Site Layout Design
- Pavement Design
- Project Management
- Public Involvement Plan Development
- Public Private Partnership
- Quality Control and Assurance
- Railroad Crossing Design
- Railroad Design
- Right-of-Way Acquisition
- Roadway Design
- Roadway Widening and Reconstruction
- Roundabout Design
- Rural Highway Design

David Freni, PE

Project Manager

Mr. David Freni, PE, is a Senior Highway Design Engineer with civil engineering experience predominantly within the field of transportation. He joined Lochner in 2009.

Mr. Freni has considerable experience – as an engineer and manager – with roadway and drainage design projects, including design-builds. He has led design for the new construction, reconstruction, and/or rehabilitation of city streets, intersections, urban and rural arterials, expressways, interchanges, and multi-use trails. His roadway design expertise includes geometric design, traffic control planning, specification development, environmental permitting, and construction staging. As a Project Manager, he has successfully headed large, multi-disciplinary projects requiring coordination with numerous subconsultant firms. He has worked with clients ranging from state Departments of Transportation to regional economic development alliances to counties, municipalities, and private developers.

In addition to roadway engineering, Mr. Freni has worked in the fields of site development design and geotechnical engineering. His experience in these areas includes soil testing and classification, drilling operations, and geotechnical and environmental site assessments.

Project Experience

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Project Manager and EOR

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Deputy Project Manager and Senior Roadway Engineer

Capital Circle SE, Tallahassee, FL, Blueprint 2000, Design-Build project for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway from Tram Road to Connie Drive, included roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, traffic control, and permitting.

Roadway Design EOR

Years of Experience:

18

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1992

Professional Registration:

Professional Engineer: FL #51367

Professional Organizations:

Florida Engineering Society

Certifications:

Advanced Maintenance of Traffic Qualification
Qualified Stormwater Management Inspector

Areas of Expertise:

- Design Management
- Program Management
- Project Management
- Intersection Design
- Multi-Modal Trail Design
- Permit Coordination
- Quality Control and Assurance
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Urban Arterial Design

Michael Woodard, PE

Senior Roadway Design Engineer

Mr. Michael Woodard, PE, is a Senior Highway Design Engineer and Project Manager. He joined Lochner in 1999, bringing with him 15 years of engineering experience, seven of which were within the transportation industry. He specializes in roadway design.

During his career, Mr. Woodard has worked on dozens of roadway design projects, ranging in size from sidewalk improvements to large, complex interchanges, and encompassing both urban and rural facilities. He has expertise in all aspects of the roadway design process, including horizontal and vertical geometry, intersection reconfiguration, traffic control plans, utility relocation, earthwork computations, cost and quantity estimating, and pavement design. Mr. Woodard also has considerable experience in the design of box culverts and open and closed drainage systems.

Mr. Woodard has held lead design and project management roles on many large transportation projects. Notably, he is the Senior Roadway Engineer for the high-profile Capital Circle reconstruction and widening project in Tallahassee, Florida, which is being completed under design-build delivery. With his wealth of experience, Mr. Woodard is often called upon to perform peer review and quality assurance for roadway and drainage design plans prepared in Lochner offices across the country.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Design Engineer responsible for:

- Designing horizontal and vertical geometry
- Developing roadway plans
- Performing pavement design

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Project Manager and EOR

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Project Manager and EOR

Years of Experience:

18

Education:

Bachelor of Science in Marine Engineering,
U.S. Merchant Marine Academy, 1981
Masters of Science in Civil Engineering,
University of Central Florida, 1992

Professional Registration:

Professional Engineer: FL #47736

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- ADA Requirements
- Alternative Analysis
- Collaboration with Engineering and Construction Teams
- Construction Cost Estimating
- Detention / Retention Pond Design
- Geometric Layout Design
- Geopak
- Interchange Design
- Intersection Reconfiguration Design
- Local Street Improvements
- MicroStation
- Pavement Design
- Project Management
- Public Meeting Participation
- Quality Control and Assurance
- Right-of-Way Acquisition
- Roadway and Highway Design
- Rural Highway Design
- Storm Drain System Design
- Subconsultant Coordination

Tony Alex, PE

Roadway/Traffic Design Engineer

Mr. Tony Alex, PE, is a Highway Design Engineer. He joined Lochner in 2002, bringing with him three years' professional engineering experience. He specializes in roadway design.

Mr. Alex has experience in planning and final design for a variety of roadway projects. His project background encompasses new corridors on new alignment, the reconstruction of multi-lane facilities and interchanges, the widening of rural highways and urban arterials, and city street improvements. He has also worked on project development and environment (PD&E) studies. His expertise includes vertical and horizontal geometric design, quantity and cost estimation, traffic control planning, traffic calming design, natural features inventory, permit application preparation, and storm drain design. Mr. Alex also has experience in GIS data analysis and mapping, intersection analysis, and AutoTURN analysis. He is proficient with MicroStation, GeoPak, and ArcGIS planning and design software and with MS Project, SureTrak, and Primavera project management software.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Design Engineer responsible for:

- Developing sidewalk and traffic control plans

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including traffic control, signing and markings, drainage and permitting

Years of Experience:

12

Education:

Bachelor of Science in Civil Engineering,
University of Calicut, 1995

Masters of Science in Civil Engineering,
University of Alabama, 2003

Diploma in (Post Graduate) Construction
Management,

National Institute of Construction Management and
Research, 1999

Professional Registration:

Professional Engineer: FL #62465

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Construction Phasing Plans
- Cost Estimate Development
- Cost Estimates and Specifications
- Engineering Quantity Take-offs
- GIS Analysis and Mapping
- GIS Data Research, Evaluation and Mapping
- Guardrail and Safety Barrier Design
- Interchange Design
- Local Street Improvements
- Maintenance-of-Traffic Evaluation
- Maintenance-of-Traffic Plans
- Plan Set Assembly
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design
- Stormdrain Design
- Traffic Control Design
- Urban Arterial Design
- Utility Relocation Design

Scott Simmons, EI

Roadway/Traffic Design Engineer

Mr. Scott Simmons is a Highway Design Engineer. He worked with Lochner as an intern from 2001 and became a full-time member of the roadway engineering team in 2004.

Mr. Simmons has been involved in the roadway design process for a number of different facilities, including city streets, rural highways, urban arterials, and large interchanges. He has worked on several projects from the preliminary design stage right through to submittal of construction documentation. His project expertise encompasses the full spectrum of plans production, including horizontal and vertical alignment, cross sections, right-of-way, erosion control, and quantity estimation. He has also prepared numerous signing and pavement marking plans.

Mr. Simmons is proficient with MicroStation and Geopak, and is responsible for making electronic submissions of project deliverables. He has undertaken training in construction estimating, long-range estimating, specifications preparation, and Americans with Disabilities Act (ADA) requirements.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with sidewalk design
- Computation book quantities, and cost estimate

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Roadway Engineer responsible for:

- Assisting with roadway design alternatives and intersection analysis
- Assisting with the Preliminary Engineering Report

Years of Experience:

10

Education:

Associates in of Arts,
Tallahassee Community College, 2001
Bachelor of Science in Civil Engineering,
Florida State University, 2004

Professional Registration:

Engineer In Training: FL #1100010209

Areas of Expertise:

- ADA Requirements
- Cost Estimates and Specifications
- Electronic Delivery and PEDDS Software
- Engineering Estimate Development
- Engineering Quantity Take-offs
- Geopak
- Horizontal and Vertical Alignment Design
- Intersection Design
- MicroStation
- Plan Set Assembly
- Presentation Material Preparation
- Roadway and Highway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design

Natalie Zierden, PE

Senior Drainage Design Engineer

Ms. Zierden joined Lochner in 2010 with experience in drainage design and is thoroughly familiar with the stormwater design and permitting requirements of various environmental agencies and local, state, and federal governments. She is skilled in drainage modeling software including SWMM, StormCAD, PONDS as well as ICPR, WSPRO, UNET, HEC-RAS, ASAD and Hydrain. Ms. Zierden also has a thorough understanding of construction plans and documents, topographic surveys and she is knowledgeable of applicable rules and design codes.

Project Experience

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Lead Drainage Design Engineer responsible for:

- Location Hydraulics Report Preparation
- Pond Siting

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Drainage Design Engineer responsible for:

- Gabion Mattress Design
- Quality Control for Hydraulic Calculations

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Project Manager and Lead Drainage EOR for:

- Stormwater treatment and attenuation
- Floodplain Mitigation Design
- Permit Coordination

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Lead Drainage Design Engineer responsible for:

- Bridge Hydraulics Report Preparation
- No-rise Certification Preparation
- Stormwater treatment design
- Permit Coordination

Years of Experience:

13

Education:

Bachelor of Science in Environmental Engineering,
University of Florida, 1994

Professional Registration:

Professional Engineer: FL #56072
Professional Engineer: GA #28350

Certifications:

Project Management Training
Safety Training
Stormwater Management Inspector Training

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Sewer Line Design
- Stormdrain Design
- Design Management
- Program Management
- Project Management
- Quality Control and Assurance
- Parking Lot and Site Layout Design
- Pavement Design
- Permit Coordination
- Value Engineering
- Site Grading Plans
- Government and Agency Coordination
- Public and Media Outreach Material Development
- Public Involvement Plan Development
- Stakeholder Facilitation and Workshops

Nick Lawrence, PE

Drainage Design Engineer

Mr. Lawrence joined Lochner in April 2010. His previous work experience includes permitting with state and local agencies, involving a range of civil design and specializing in drainage engineering. Permitting experience includes projects in Duval, St. Johns, Leon, Jefferson, and Wakulla counties, as well as with state agencies including SJRWMD, NFWFMD, FDEP, and FDOT.

His experience was acquired with a background in civil site design while gaining exposure to the layout, design, and production of construction documents for residential and commercial developments including utilities, stormwater, and roadways. He has competencies in most all areas of hydrologic and hydraulic design, analysis, and modeling. His extensive stormwater management facility design includes wet and dry detention, retention, and facilities using combinations. He is proficient in techniques of predicting stormwater runoff using SCS and Green-Ampt methodologies. He has had responsibilities for flood studies and large watershed modeling including calibration to recorded measurements and is experienced in hydrologic analysis of rainfall data for continuous simulations for periods of up to five years. His design experience has included soil analyses and classification for purposes of stormwater facility design.

Project Experience

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Designing open stormwater conveyance systems
- Designing floodplain compensation areas
- Environmental permitting

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Developing sediment and erosion control plans
- Drainage documentation
- Environmental permitting

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Drainage Engineer responsible for:

- Developing storm sewer and open ditch conveyance systems
- Drainage documentation
- Environmental permitting

Years of Experience:

5

Education:

Bachelor of Science in Civil Engineering,
Florida State University, 2005

Professional Registration:

Professional Engineer: FL #70818

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Irrigation Coordination and Design
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Scour Analysis
- Sewer Line Design
- Stormdrain Design
- Water Line Design
- Cost Estimates and Specifications
- Drafting
- Engineering Quantity Take-offs
- Parking Lot and Site Layout Design
- Pedestrian Ramp Design
- Phased Construction Plan Design
- Plan Set Assembly
- Roadway Design
- Utility Relocation Design
- ADA Requirements

Kevin Connor

Senior Environmental Manager

Mr. Connor is a Senior Environmental Manager with H. W. Lochner. He has 16 years of experience providing a wide range of environmental and ecological services. His experience encompasses both upland and wetland habitats, and includes wetland delineations and jurisdictional determinations; habitat mapping and value assessments; wildlife surveys and relocations; mitigation design, construction, monitoring, and maintenance; and expert witness testimony. Mr. Connor is trained in performing wetland delineations in accordance with State of Florida and Federal (U.S. Army Corps of Engineers) guidelines. He is also experienced in environmental permitting and has attained ERP and Section 404 Permits for numerous roadways, mining, and other individual projects as well as Threatened and Endangered Species Relocation and Incidental Take Permits, U.S. Coast Guard Bridge Permits, and many local Environmental Permits. Mr. Connor is also experienced in the National Environmental Policy Act (NEPA) process and documentation as well as the Uniform Mitigation Assessment Method (UMAM) and its use in ERP and Section 404 permitting.

His hands-on field experience is also a key ingredient in the development and implementation of mitigation designs and remediation plans. He has aided in the development of mitigation designs and construction inspections for several mitigation sites in throughout Florida. While working on his Master's degree, Mr. Connor spent three years monitoring habitat requirements and behavior of gopher tortoises, a species designated as Threatened by the State of Florida. In addition, Mr. Connor participated in surveys to evaluate habitats for wildlife utilization and to document the presence of amphibians and reptiles throughout central and south Florida. While at Wake Forest University, Mr. Connor worked in an ecology lab where he participated in a long-term project monitoring plants for resistance to diseases.

Project Experience

118th Expressway, Clearwater, FL, PBS&J, Structural design services for the construction of a new urban expressway within the existing median of 118th Avenue. Lochner prepared a bridge development report for three structures (totaling over 6,000 feet in length and including post-tensioned straddle bents) and final design plans for one structure—a 1,600-foot bridge that incorporates the new Florida I-Beam. Lochner is also responsible for traffic control, construction staging, lighting design, environmental field work, and utility coordination.

Environmental Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

CR 388 PD&E Study, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study for the existing CR 388 roadway corridor, and its extension on new alignment, from US 98 in Walton County to SR 77 in Bay County.

Environmental Lead responsible for:

- Performing field work, collecting environmental data including wetland assessments and threatened and endangered species surveys, and writing environmental reports including Wetland Evaluation Report and Endangered Species Biological Assessment.

FDOT D3 Misc Bridge Repair C-8R81, Chipley, FL, Florida Department of Transportation-District 3, Lochner developed Fracture Critical Checklists for two bridges in District 3. The checklists were utilized by FDOT inspectors to record findings.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

SR 688 (Ulmerton Road), from West of Lake Seminole Bypass Canal to East of Wild Acres Road, Pinellas County, FL, E.C. Driver & Associates, Inc., The proposed improvements involve widening of SR 688 (Ulmerton Road), from west of the Lake Seminole Bypass Canal to east of Wild Acres Road, in Pinellas County, Florida. The length of the project is approximately 1.4 miles.

Environmental Permit Lead responsible for:

Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Years of Experience:

16

Education:

Bachelor of Science in Biology,
Wake Forest University, 1992
Masters of Science in Zoology,
University of South Florida, 1996

Certifications:

Authorized Gopher Tortoise Agent
Stormwater Management Inspector

Areas of Expertise:

- Environmental Permitting
- Wetland Delineations and Assessments
- Wetland Mitigation Services
- Protected Species Surveys, Relocations, and Management Plans
- NEPA Documentation
- Habitat Systems Restoration and Design
- Expert Witness Services

Ryan Huebschman, PE

Traffic Design Engineer

Mr. Ryan Huebschman, PE, is a Traffic Engineer with 10 years' of experience. He has been a member of the Lochner team since 2003. Mr. Huebschman has performed traffic engineering and design tasks within a variety of transportation projects for municipal, county, and state transportation agencies, as well as private developers. He has produced signalization, signing, pavement marking, and/or lighting designs for more than 25 roadway projects – ranging from new residential streets to major expressway conversions. He has considerable experience in the area of traffic studies, ranging from intersection analysis to travel time studies. Mr. Huebschman is proficient with a range of traffic analysis and engineering software, such as CORSIM, Synchro, SimTraffic, HCS, Visual, and MicroStation.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway which involves the reconstruction of approximately three miles of an existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, and is an emerging SIS Connector.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Traffic Engineer responsible for:

- Project management, signalization design, pavement marking design, signing design, and lighting analysis and design.

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities.

Supervisor (Task Mgr.), Transportation Engineer responsible for:

- Operational studies, planning studies, and transportation planning.

SR 83 (US 331) from US 98 to Choctawhatchee Bay, Walton County, FL, Florida Department of Transportation-District 3, Final design and preparation of construction plans for roadway, drainage, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans. Project included 1.5 miles of widening from a two-lane rural arterial to a four-lane divided urban arterial of SR 83 (US 331) in Walton County, Florida.

Transportation Engineer responsible for:

- Signalization design.

SR 85 from General Bond Blvd. to N. of Okaloosa Regional Airport - Plans Update Phase,

Okaloosa County, FL, Florida Department of Transportation-District 3, Full design services for multi-lane reconstruction including a new interchange with grade separation at SR 123 and a new interchange adjacent to NW Florida Regional Airport in Okaloosa County, FL. Service includes defining the improvement and interchange types for the facility, and updating & re-evaluating the analysis from two prior PD&E Studies. SR 85 is an emerging SIS Connector.

Design Engineer responsible for:

- Lighting design.

US 98 PD&E Study (Traffic Planning), Okaloosa & Walton Counties, FL, Hatch Mott MacDonald, Inc., Traffic engineering services—data collection, operational and multimodal analysis, preparation of traffic study report—for project development and environment (PD&E) study on 12 miles of US 98 in Okaloosa and Walton counties, Florida.

Traffic Engineer responsible for:

- Traffic analysis.

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
Purdue University, 2001

Masters of Science in Civil Engineering,
Purdue University, 2003

Professional Registration:

Professional Engineer: FL #66919

Areas of Expertise:

- ADA Requirements
- Concept Development
- Design Study Reports
- Drafting
- Existing Conditions Analysis
- Interchange Design
- Intersection Analysis
- Intersection Design
- Lighting Design
- Long Range Planning
- Maintenance-of-Traffic Evaluation
- Pavement Design
- Plan Set Assembly
- Roundabout Design
- Signal Design
- Signing and Striping Design
- Single Point Urban Interchange Design
- Traffic Analysis
- Traffic Control Design
- Traffic Modeling
- Urban Arterial Design

Michael Dorweiler, AICP

Transportation Planner

Mr. Dorweiler serves as a Project Manager for H.W. Lochner, Inc. in the Transportation Planning and Traffic Operation Division. He has experience in transportation planning and engineering, including transportation systems planning, corridor studies, long-range planning, traffic impact analyses, and traffic operations. He has worked closely with Department of Transportation staff in corridor and level of service (LOS) analyses, project development and environmental (PD&E) studies, traffic impact studies, access management, and development of a congestion management system. He has managed projects that have included assessing existing and future traffic conditions using Highway Capacity software, FDOT LOSPLAN, Synchro, CORSIM, and VISSIM in determining conventional and non-conventional intersection and interchange concepts, including express lanes and continuous flow intersections. He has enjoyed fostering relationships with various planning, EMO, traffic operations, design, cities and counties staff on projects conducted through the States of Florida, Georgia, North Carolina, New Mexico, Utah, Arizona, Colorado, Wyoming, Montana, Idaho, and Nevada.

Project Experience

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities. Project Manager responsible for contract management.

General Engineering Consultant (GEC), Florida Department of Transportation District One.

Task manager overseeing planning tasks under the contract, including developing a congestion management system process for the Florida Intrastate Highway System (FIHS)/Strategic Intermodal System (SIS) for the twelve counties within District One, defining a Rural Roadway Network for the six rural counties (De Soto, Glades, Hardee, Hendry, Highlands and Okeechobee), and tracking project priorities as part of the Work Program support.

SR 82/Daniels Parkway and US 41/SR 951 Continuous Flow Intersections, Lee and Collier Counties, Florida, Florida Department of Transportation FDOT District One. Task manager coordinating the review of an innovative intersection concept, designed to minimize intersection delays for left turning vehicles, based on VISSIM simulation of design hour traffic, under the GEC contract.

US 41 Corridor Safety Study, Manatee County, Florida, Florida Department of Transportation District One. Project manager determining existing operational deficiencies and recommending improvements to a seven-lane roadway section in south Manatee County, under the GEC contract.

General Planning Consultant, Florida Department of Transportation District Seven. Project manager overseeing a task based contract which to date has included development of the Tampa Bay Regional Planning Model (TBRPM) 2035 Needs network, review of comprehensive plans submitted to the District, review of project traffic reports, and assessment of design alternatives for modifying the existing Skyway Fishing Piers in Florida Department of Transportation Districts One and Seven.

General Planning Consultant, Manatee County, Florida. Project manager overseeing a contract for reviewing various DRIs and traffic impact studies in the County from a traffic operational analysis and impact perspective, based on DRI and county concurrency guidelines.

Planning Services Contract, Central Florida Regional Planning Council. Project manager for a contract in which PBS&J has been retained to provide transportation planning, environmental and graphic information systems (GIS) support and which to date has included development of a concurrency management system for over 30 local jurisdictions in central and southwest Florida.

Years of Experience:

18

Education:

Masters of Science in Civil Engineering,
Georgia Institute of Technology, 1994

Bachelor of Arts in Liberal Arts,
Gustavus Adolphus College, 1985

Master of City Planning in City Planning,
Georgia Institute of Technology, 1994

Professional Registration:

American Institute of Certified Planners #099555

Professional Organizations:

American Planning Association (APA)

Institute of Transportation Engineers (ITE)

Certifications:

Planner

Areas of Expertise:

- Access Management
- Comprehensive Plan Review
- Congestion Management Studies
- Corridor Studies
- Cost Estimating/Analysis
- Development of Congestion Management System
- DRI/Site Impact Analysis
- Feasibility Studies
- Land Use Planning
- Level of Service (LOS) Analyses
- Long-Range Planning
- MPO/Local Government Coordination
- Plans Review
- Project Development and Environmental (PD&E) Studies
- Signal Design
- SubArea Studies
- TIP/LRTP Coordination
- Traffic Control Design
- Traffic Impact Analyses
- Traffic Impact Studies
- Traffic Operations
- Transit Planning
- Traffic Reports
- Traffic Simulation
- Transportation Planning
- Travel Characteristics Surveys

Chuck Craycraft, PE

Senior Structural Design Engineer

Mr. Charles Craycraft, PE, is Lochner's Southern Regional Leader and one of the firm's Senior Vice Presidents. Mr. Craycraft joined Lochner in 1981, bringing with him five prior years' experience in the field of structural engineering. Mr. Craycraft has worked on numerous structural engineering projects in seven states, and has particular expertise in the analysis and design of prestressed concrete and structural steel bridges. He has experience in bridge design on every size and scale – from small creek crossings, to multi-level interstate interchanges, to major waterway crossings. Mr. Craycraft has been the Project Manager or Lead Structural Engineer for many high profile projects. These include the landmark Paris Pike project, which has become an industry standard for context sensitive design; several complex interchange reconstructions on I-75; and I-15 reconstruction under design-build delivery. Mr. Craycraft has also managed an on-call bridge repair and rehabilitation program for the Florida Department of Transportation's District 3 since 1990. This project has involved a number of specialized tasks, such as hurricane analysis of coastal bridges and the investigation of cathodic protection for prestressed concrete piles. As the Southern Regional Leader, Mr. Craycraft heads a multi-disciplinary team of more than 140 engineers, technicians, inspectors, and administrative staff located in nine offices. In addition to managing financial, business development, administrative, and staffing operations, Mr. Craycraft is responsible for the quality assurance of many of the region's structural projects. Mr. Craycraft brings his wealth of experience to the ACEC-KY Transportation Design and Planning Committee, which liaises between the Kentucky Transportation Cabinet and the engineering community to enhance design and planning in the state.

Project Experience

District Three Miscellaneous Design Projects, , FL, Florida Department of Transportation-District 3,

Program Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments

Districtwide Miscellaneous Minor Design, Leon County, FL, Florida Department of Transportation-District 3,

Lead Structural Design Engineer responsible for:

- Providing structural engineering for various projects.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Principal-in-Charge responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges

FDOT District 3 Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Supervisor (Task Mgr.) and Project Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges.

Berea College Traffic Study, Berea, KY, Berea College, Traffic study to determine potential impacts of closing Short Street located behind historic Boone Tavern on the Berea College Campus in Berea, Kentucky. Tasks included traffic counts, modeling and analysis.

Principal-in-Charge responsible for:

- Overseeing traffic study to determine potential impacts of closing Short Street, supervising traffic counts and modeling, and overseeing presentations to city council and city planning commission.

Years of Experience:

29

Education:

Bachelor of Science in Civil Engineering,
University of Missouri, 1985

Professional Registration:

Professional Engineer: FL #40118

Certifications:

Traffic Noise Analysis
Water Quality Impact Evaluation

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development and Reports
- Constructability Review
- Coordination with Environmental, Design, and Construction teams
- Cost Estimate Development
- Design Study Reports
- Engineering Quantity Take-offs
- Environmental Specification Compliance
- Environmental Studies
- Erosion Control Design
- Existing Conditions Analysis
- Freeway Design
- Government and Agency Coordination
- Hydraulic Analysis and Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Local Street Improvements
- Natural Resource Evaluation
- Parking Lot and Site Layout Design
- Permit Coordination
- Phased Construction Plan Design
- Plan Reviews
- PS&E Plans
- Quality Control and Assurance
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Roadway Widening and Reconstruction
- Rural Highway Design
- Scour Analysis
- Sewer Line Design
- Shop Drawing Review
- Site Grading Plans
- Stakeholder Committee Group Coordination
- Stormdrain Design

Doug Burton, PE, PMP

Structural Design Engineer

Mr. Doug Burton, PE, is a Structural Project Manager in Lochner's Lexington, Kentucky, office. Mr. Burton joined Lochner in 2003 with two prior years of structural engineering experience within the transportation industry. Over his career, Mr. Burton has been involved in the design and analysis of bridges and culverts in Florida, North Carolina, Utah and Kentucky. His experience includes the design of concrete, prestressed concrete, steel and steel box girder bridges for many different highway facilities. Mr. Burton also has considerable expertise in structural analysis and load rating. Notably, he conducted analysis of the 13,000-foot Bonner Bridge, a connection between the North Carolina mainland and the Outer Banks, to develop a comprehensive repair and rehabilitation plan for the structure. Mr. Burton also has experience in the inspection of bridges, overhead signs and high-mast lighting structures.

Mr. Burton has held lead design and project management roles on many of the Lexington office's structural projects. He was the Lead Structural Design Engineer for Section 4 of the high profile Ohio River Bridges project. As well as overseeing the design of five bridges and multiple retaining walls, Mr. Burton was involved with the project's public participation and context-sensitive design initiatives. Mr. Burton is actively involved with a number of professional engineering associations, and has held leadership roles within the Kentucky Society of Professional Engineers' (KSPE) and the American Society of Civil Engineers' (ASCE) Bluegrass sections.

Project Experience

Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Structural Design Engineer responsible for:

- Structural design for on-call contract for bridge design services.

On-Call Bridge Engineering & Design (2001-2004), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Performing bridge load ratings using computer programs MDX and BARS.

On-Call Bridge Engineering & Design (2002-2007), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Developing plans/design for bridge rehabilitation projects, expansion joints, bearing pads, scour mediation, maintenance painting, bat guano cleaning, and development for replacement of a PCIB after vehicular collision.

On-Call Bridge Engineering & Design (2005-2009), Florida Department of Transportation-District 3 Chipley, FL, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Manager responsible for:

- Analyzing existing bridges for susceptibility to scour.

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek. Replacement bridge at SR 20 consists of Florida prestressed concrete beams supported on concrete end bents, utilizing square prestressed concrete piles. Replacement bridge at Natural Bridge Road consists of concrete flat slab bridge supported on concrete bents, utilizing concrete drilled shafts.

Lead Structural Design Engineer responsible for:

- Overseeing design of bridge replacements

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
University of Kentucky, 2000

Masters of Science in Civil Engineering,
University of Kentucky, 2001

Professional Registration:

Professional Engineer: KY #23970

Professional Engineer: NC #036458

Professional Engineer: FL #62803

Professional Engineer: UT #2233712-2202

Professional Organizations:

American Society of Civil Engineers

Kentucky Society of Professional Engineers

Certifications:

Project Management Professional

Areas of Expertise:

- Project Management
- Cost Estimates and Specifications
- Design Study Reports
- Maintenance of Traffic Plans
- Bridge Design
- Bridge Inspection and Rating
- Large Box Culvert Design
- Noise Wall Design
- Pedestrian Overpass Design
- Retaining Wall Design
- Structural Design

Doug Hershey, PE

Structural Design Engineer

Mr. Doug Hershey, PE, is a Structural Engineer. He joined Lochner in 2005, bringing with him five years' prior structural engineering experience within the transportation industry. Mr. Hershey has worked on structural design projects in Florida, Ohio, and Utah. His bridge engineering experience encompasses substructure and superstructure design for a wide variety of highway bridges: curved steel box girder, steel plate girder, prestressed concrete beam, spliced post-tension concrete beam, and concrete flat slab structures, as well as box culverts. Mr. Hershey also has design experience in Accelerated Bridge Construction (ABC), including Self-Propelled Modular Transport (SPMT) techniques. Notably, he was part of the engineering team for the ABC and SPMT design of two I-80 bridges in Salt Lake County, Utah. In addition to bridge structures, Mr. Hershey has designed retaining walls, sign structures, mast arms, and strain poles. Mr. Hershey has field experience in bridge inspection. He has also calculated load ratings for numerous bridges and box culverts. He is proficient in the use of a wide range of engineering software, such as MicroStation, MathCAD, STAAD, Conspan, RC-Pier, CONSPLICE, MDX, and BARS-PC.

Project Experience

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Engineer responsible for:

- LRFR load rating of the 3-span spliced post-tensioned main span using CONSPLICE.

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Lead Structural Design Engineer responsible for:

- Designing & load rating two 3-span cast-in-place flat slab bridge superstructures
- Checking the design of the end bents and intermediate bents
- Plan production and coordination of CADD staff
- Designing nine mast arms (5 standard & 4 non-standard)
- Engineer-of-Record for twin single span prestressed AASHTO girder bridges over CSX Railroad with approximate spans lengths of 94 feet and twin reinforced concrete flat slab bridges over Gum Creek consisting of three 30 foot spans.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Lead Structural Design Engineer/EOR responsible for:

- Designing steel strain poles at the intersection of SR44 and Highview Avenue in Citrus County, FL.

Haines Road (CR 691) from US Hwy. 19 to I-275, Clearwater, FL, Pinellas County Department of Public Works, This project entailed reconstruction and rehabilitation of 1.6 miles of urban roadway. Work included addition of new sidewalks, curb and gutter and a close drainage system, Pinellas County Department of Public Works, Lealman, Florida.

Lead Structural Design Engineer/EOR responsible for:

- Designing mast arm structures at 54th Avenue North / 28th Street North intersection, providing bus bench pad and gable shelter details.

Roosevelt Boulevard/CR 296/ I-275 Connector, Clearwater, FL, Florida Department of Transportation-District 7, Design two of the six phases planned for CR 296, a major new limited access connector to I-275 in Pinellas County. This project addressed Phase 2, which will extend CR 296 to the west to the vicinity of 40th Street, and Phase 3, which will connect CR 296 with Roosevelt Blvd. across I-275, and provide a northbound to westbound connection between the interstate and CR 296.

Structural Design Engineer responsible for:

- Checking the beam and diaphragm design, load rating, and pier design and design of the end bents.

Years of Experience:

11

Education:

Masters of Science in Civil Engineering (Structural Emphasis),

University of Toledo, 2001

Bachelor of Science in Civil Engineering,

University of Toledo, 2000

Professional Registration:

Professional Engineer: FL #63325

Professional Engineer: OH #69633

Professional Engineer: UT #7437470

Areas of Expertise:

- Bridge Design and Load Rating
- Steel Box and Steel Plate Girder Design
- Prestressed Concrete Girder Design
- Spliced, Post-Tensioned Concrete Girder Design
- Overhead and Cantilever Sign Structure Design
- Mast Arm Design
- Strain Pole Design
- Retaining Wall Design
- Shop Drawing Review



**James E. Melcher, P.S.M.
Project Surveyor**

Registrations:
Florida No. 6159

Education:
B.S. Geography
Florida State University
1992

**Professional
Affiliations:**
Florida Surveying &
Mapping Society (FSMS)

Nobles Consulting Group, Inc.
2844 Pablo Avenue
Tallahassee, Florida 32308
Phone: (850) 385-1179

January 1997 to present

Summary of Qualifications:

Mr. Melcher has over fifteen years of experience in survey data processing and right of way mapping. As a survey project manager in NCG's Tallahassee office, he is responsible for the preparation and review of right of way maps, title searches, legal descriptions, field data and control surveys for FDOT projects. Mr. Melcher has an extensive background in the primary analysis of field data and is very proficient in CAICE, Microstation and AutoCad formats. He also serves as designer/CADD Technician for highway and bridge design projects at NCG.

Project Experience:

Capital Cascades Trail Segments 3 and 4, Tallahassee, Florida. Provided topographic survey for design of multimodal trail segments along 4 miles of Tallahassee's major drainage feature. Project included establishment of horizontal and vertical control points and a referenced project baseline for tie in with other City of Tallahassee projects. A complete 3-D topographic survey of the St. Augustine Branch and Central Drainage Ditch was completed. Detailed surveys of 21 existing drainage structures / bridges along the corridor were undertaken. Several offsite parcels for pond / wetland creation were located. A utility survey and several tree surveys were also scoped.

FP 222589, 222590, 222593 SR 8 (I-10) from Rest Areas to East of SR 261 (Capital Circle NE) Leon County, Florida. Provided full 3D design survey of I-10 corridor, 3 major interchanges and side streets for the widening of I-10 to six lanes. Some R/W acquisition was involved. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety concerns. Approximately 13.5 miles of corridor.

SR263 (Capital Circle NW) from S of SR 10 (US 90) to SR 8 (Interstate 10), Leon County, Florida (FP 2197221). Provided full 3D design and Right of Way Control Survey for in-house design by District 3. The 2.2 mile project consisted of a 300 foot wide swath including the existing right of way of SR 263 for widening from 2 lanes to 6 lanes with a transition area at both north and south ends. Additional work consisted of the stakeout and monumentation of newly acquired right of way.



SR 369 (U.S. 319) from East Ivan Road to the Leon County Line Wakulla County, Florida (FP 2204951). Provided full 3D design survey and Right of Way Control Survey for multilane reconstruction and property acquisition for a 5.7 mile corridor. Included preparation of Right of Way Control Survey maps and Formal Jurisdictional Wetland Determination Maps.

SR 10 (US 90 / West Tennessee Street) from SR 263 to Ocala Road, Leon County, Florida (FP 4063331). Full 3D design survey for 3-R project including major median work and drainage redesign at CSX RR overpass within a 3.3 mile urban project. Additional survey services included preparation of Right of Way

Gaines Street Realignment from Jackson Bluff Road to Monroe Street (SR 63 / US 27) (FP 2197701). Control for LAMP project and conventional topography for SR 371 in Leon County, control survey and R/W mapping.

SR 83 (US 331) from Choctawhatchee Bay Bridge to 0.5 Mi. S of Freeport Walton County, Florida (FP 2206791). Full 3D Design and Right of Way Control Survey for road widening and property acquisition including preparation of Right of Way Control maps and TIITF easements for approximately 3.3 miles of corridor.

SR 85 (Eglin Parkway) from Richborough Avenue in Shalimar to Wolverine Avenue in Valparaiso, Okaloosa County, Florida (FP 4063271). Full 3D design survey for milling and resurfacing / roadway improvements for 8.06 miles of multilane highway. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety.

SR 20 (US 27 / Apalachee Parkway) from SR 261 to the Jefferson County Line, Leon County, Florida (FP 4090251). Full 2D / partial 3D design survey for 9.39 miles of multilane corridor roadway improvements.



2734 Capital Circle NE, Florida 32308
Phone: 850/385-1133
Fax: 850/385-1236
Website: www.dddsinc.com

PROFESSIONAL RECORD

Jason D. Hill, PSM
Survey Project Manager

Jason Hill has 23 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 16 years. His experience encompasses: design surveys; right-of-way surveys; horizontal and vertical control surveys, topographic surveys; including utilization of electronic field book; jurisdictional delineation; and geodetic and construction surveying. As a Project Manager he has the responsibility of managing multiple projects, ensuring detailed attention and quality assurance to each one. His duties include: client contact; scheduling, manpower allocation; quality control and project budgets. Mr. Hill has worked with various city and county governments, the Florida Department of Transportation, and a variety of private sector clients.

KEY PROJECTS

FDOT 3 SR 61/US 319 (Leon) 4246091 from Timberwolf Crossing to the Georgia State Line: Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, 2011, Woolpert, Tallahassee, FL: Mr. Hill is the Project Manager for this project which consists of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR.

FDOT 3 Bellview & Bauer Bridge in Escambia County: Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 CR10 US 90 (Walton) 4246131 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

FDOT 3 SR20 (Leon County) 423067-1 Jason is the Project Manager for this project for which 3DS is providing surveying services for the 3R project These services included typical 3R cross-section and data collection of utilities, drainage and 2D planimetrics

FDOT 3 SR30A (Bay County) 219312-1 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 3D topographic survey.

City of Tallahassee/Blueprint 2000 Capital Circle NW/SW: Mr. Hill provided surveying services for the full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Holmes 4252772 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Walton 4252771 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 SR 291 (Escambia) 4153781 Jason was the Project Manager for this project which included boundary location for the preparation of a control survey.

PROFESSIONAL ACHIEVEMENTS

Professional Surveyor and Mapper, State of Florida, Certification No. 6008

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Myron L. Hayden, Ph.D., P.E. **Geotechnical Engineering**

Professional Credentials:

Bachelor of Science, Civil Engineering, Tri-State University, 1974
Master of Science, Civil Engineering, Oklahoma State University, 1975
Doctor of Philosophy, Civil Engineering, Oklahoma State University, 1978
Professional Engineer in Florida
General Contractor in Florida

Professional Organizations:

American Society of Civil Engineers - Vice-President of North Florida Region - President of Tallahassee Chapter - Engineer of the Year
Florida Engineering Society - Vice-President of North Florida Region - Past President of Big Bend Chapter - Elected Fellow - Engineer of the Year
American Society of Transportation Engineers
American Public Works Association
National Society of Professional Engineers
Transportation Research Board (National Academy of Sciences) - Former National Committee Chairman

Special Qualifications:

- Over 30 years of Geotechnical design and investigation experience including roadway studies, bridge designs, and groundwater control
- Highly-skilled consensus builder on controversial projects
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 18; Years Experience with Other Firms: 16

Relevant Experience:

Districtwide Miscellaneous Geotechnical Consultant to the Florida Department of Transportation, District 3, Chipley, FL – Provides miscellaneous services to the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

SR 79, Washington County, FDOT District 3, Holmes and Washington County, FL (FDOT FPN 220773-32-01, Sections 3, 5, 6, 7 and 8) – Conducted the geotechnical investigation for five (5) sections of the SR 79 reconstruction and widening project in Washington and Holmes County, Florida. The geotechnical design for the roadway included asphalt coring, parameters for pavement design, analysis for culvert extensions, and recommendations for swale exemptions and stormwater ponds. Also included in the project was the bridge and embankment design for the SR 79 bridge replacement over Holmes Creek and the bridge replacement over Reedy Branch Creek.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Thomas H. Hayden, P.E. Geotechnical Engineering

Professional Credentials:

Bachelor of Science, Civil Engineering, University of South Florida, 2003
Professional Engineer in Florida

Professional Organizations:

American Society of Civil Engineers – 2008 President Tallahassee Chapter – 2008-2010 FAMU/FSU College of Engineering Student Chapter Liaison – 2009 Young Engineer of the Year

Florida Engineering Society – 2008-2009 K-12 Education Committee - 2006-2008 Math Counts Committee – 2009 Florida Engineering Leadership Institute Graduate

Geotechnical Materials Engineers Council

Special Qualifications:

- Over 10 years of Geotechnical design and investigation experience, including roadway studies, stormwater design, pavement design, and materials engineering
- Familiarity of FDOT Geotechnical Standards
- CTQP/ACI Certifications: Aggregate Field and Laboratory Testing Technician, Asphalt Plant Technician – Levels I and II, Field Sampler Technician, LBR Technician, Concrete Field Technician – Levels I and II, Concrete Laboratory Technician – Level 1, Quality Control Manager, Concrete Transportation Construction Inspection, Advanced Maintenance of Traffic Inspector and FDEP Erosion Control Inspector

Years Experience with EGS: 7; Years experience with other firms: 3

Relevant Experience:

GPI Southeast, Inc., Proposed Longleaf Development, Stormwater Treatment Facilities, Wakulla County, FL – Performed subsurface investigation of the proposed Longleaf Development. Provided client with subsurface conditions, encountered groundwater and estimated "normal" seasonal high groundwater, design infiltration rates, and anticipated construction considerations.

Carollo Engineers, Lake Bradford Road Wastewater Treatment Facility, Tallahassee, FL – Performed subsurface investigation of the proposed roadway and parking improvements at the Lake Bradford Wastewater Treatment Facility. Provided the client with design and reuse recommendations for each material STRATA encountered throughout project.

Florida Department of Transportation, District 3, SR 97 Pavement Core and Condition Survey, Escambia County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 97 in Escambia County, Florida. Provided the District with the types of pavement failure encountered, anticipated construction considerations, and design recommendations.

Florida Department of Transportation District 3, SR 61 Pavement Condition Survey and Design, Leon County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 61 (North Monroe Street) at the proposed Lake Jackson Eco-Passage. Provided the client with compaction characteristics of the existing embankment material as well as design recommendations for the proposed pavement.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC

Derwood C. Sheppard, P.E.
Engineer

Professional Credentials:

Bachelor of Science, Civil Engineering, Florida State University, 2004
Professional Engineer - Florida

Professional Organizations:

American Society of Civil Engineers, Big Bend Chapter, Florida Engineering Society

Special Qualifications:

- Geotechnical design and investigation experience, including roadway studies, bridge designs, and stormwater management
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 7

Relevant Experience:

District-wide Miscellaneous Geotechnical Consultant to the FDOT, District 3 – Assisted with the design of various transportation related projects for the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

Miscellaneous Scour Geotechnical Studies for Scour Protection, FDOT District 3 – Assisted with the geotechnical studies for the design of bridge protection and scour countermeasures. The countermeasures included crutch bents, riprap abutment protection, fender systems, stabilization of causeways, riprap blankets, and sheet pile walls. Typical examples of projects include SR 30 over Pensacola Bay, SR 10 over Black Water River, SR 30 over Choctawhatchee River, SR 30 over Ochlocknee Bay, SR 8 (I-10) over Little River. The services included conducting a file search and evaluation of past geotechnical investigations, pile driving records, and field notes. Services also included Post Design services to assist with constructability questions.

SR 30 (US 98) over the St. Marks River Bridge Replacement, FDOT District 3, Wakulla County, FL (DOT FPN 220499-1-52-01) - Assisted with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to the bridge replacement roadway upgrades and widening, muck studies and temporary construction methods were investigated and designed.

SR 79 over Holmes Creek Bridge Replacement – FDOT District 3, Holmes County, FL (DOT FPN 407167-1-52-01) – Duties included assisting with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to drilled shafts, because of the deep scour at the channel locations, a complex foundation consisting of both drilled shafts and pipe piles was needed to address the constructability issues because of the deep scour known to exist. In addition, non-traditional scour countermeasures were required for the abutments to reduce the potential scour and ensure the bridge abutments would be stable during typical storm surges.



HSA Consulting Group

MICHAEL L. CLELAND, AICP, PTP
TRANSPORTATION MANAGER

Education: Master of Public Administration, University of West Florida
Bachelor of Science in Natural Resources, Ball State University
Member, American Institute of Certified Planners
Member, American Planning Association (APA)

Continuing Education Courses

FDOT Site Impact Workshop
FDOT Design Traffic Workshop
Highway Capacity Analysis Workshop/McTrans Center (University of Florida)
Florida Standard Urban Transportation Model Structure (FSUTMS)
FDOT Level of Service Short Course
FDOT Access Management, Location, and Design Workshop

Summary of Qualifications

Mr. Cleland has over twenty years experience in transportation planning in both the public and private sectors. His experience includes transportation planning and traffic analysis, transit planning, and comprehensive planning. For three years of post-graduate employment prior to joining HSA in 1991, Mr. Cleland served on the staff of three MPO's in northwest Florida, and for one additional year he was a Planner for Baskerville Donovan Engineers in Pensacola. He has extensive experience managing large-scale data collection projects for the Florida Department of Transportation, particularly for traffic and roadway data.

Mr. Cleland has had production management and coordination responsibility on HSA's traffic data collection and analysis programs since joining the firm in 1991. His experience includes managing large scale, multi-years traffic counting inventory programs for the FL Department of Transportation at the Districtwide and Statewide levels. His expertise in traffic forecasting and level of service analysis is well known throughout the State of Florida, as well as his knowledge of traffic operations studies and techniques, including No Passing Zone Studies, Origin and Destination Studies, and detailed Arterial Capacity Analysis consistent with FDOT procedures. In recent years, Mr. Cleland has directed the field operations of multiple No Passing Zone Studies for 3R Design projects throughout the 16-county area of District Three.

Related Project Experience

Districtwide Annual Traffic Counting Program - 1992, 1996 – 2003 - Mr. Cleland served as Project Manager for three multi-year, multi-task work order contracts for conducting annual inventory of traffic counts for FDOT District III, including management of sub-consultants. Services consisted of conducting annual volume and classification traffic counts throughout the 16-county area of District Three. Up to 2000 urban and rural 24- and 48-hour volume and classification counts were conducted each year. HSA also provided planning support services such as Design Traffic Reports.

Selected No Passing Zone Studies

Mr. Cleland has led the field data collection and analysis efforts for multiple No Passing Zone Studies in recent years, particularly for Resurfacing projects throughout FDOT District Three. Examples include the following:

CR 368 (Liberty / Wakulla Counties) from CR 67 to CR 375 – 3.951 miles
SR 89 (Santa Rosa County) from CR 178 to Jay City Limits – 7.442 miles
SR 69 (Jackson County) from SR 10 to SR 71 – 15.577 miles
SR 71 (Jackson County) from Calhoun County line to Malloy Plaza Rd – 8.786 miles
SR 20 (Leon County) from Ochlockonee River Bridge to SR 263 – 19.293 miles
SR 59 (Jefferson County) from SR 20 to Main St – 5.462 miles
SR 77 (Washington County) from SR 273 to Jackson County line – 2.831 miles
SR 10 (Walton County) from Country Club Dr to Holmes County line – 6.558 miles



HSA Consulting Group

Michael L. Cleland, AICP, PTP

Escambia County Engineering Department (2004 – present) – Mr. Cleland successfully manages this ongoing traffic data inventory for HSA. On an annual basis, 48-hour speed counts, 48-hour volume counts, 48-hour classification counts, and eight-hour turning movement counts are assigned through multiple Task Work Orders with tightly specified timeframes.

Design Traffic Analysis Reports (DTR's) for the following FDOT roadway projects: SR 390 - Bay County, SR 30 - Santa Rosa County, SR 10 - Escambia County, SR 295 - Escambia County, SR 291 - Escambia County; SR 79 - Bay County, and so on. Mr. Cleland Also reviews and updates the DTR's of other consultants for the District.

Eglin AFB Master Transportation Plan (Sub-Consultant to STV)

Base-wide Traffic Counting Program, 17,000 Employee O&D Study, and Transportation Plan Development

MICHAEL L. CLELAND, AICP, PTP

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Design Traffic Projections for Multiple Alternatives

US98 PD&E Study–Naval Live Oaks to Portside Drive -Traffic Technical Memorandum/Highway Capacity Analysis for Multiple Alternatives

District Three Land Planner /Business Damage Estimate Support for Multiple Contracts since 1995

Mr. Cleland has led efforts throughout the District which involved developing site inventory data collection plans, access management assessments, driveway and drive-through window queuing analysis, parking demand/ turnover studies.

Seasonal Factors Study – This study reviewed the components of all seasonal factor categories utilized in District 3 and recommended changes to the composition and application of the categories.

Santa Rosa Island Authority (November 2004 – present) – Mr. Cleland provides management and oversight of the continuous volume counts for the entering lanes at the Bob Sikes Bridge toll booth. There are two to four entering lanes open at any given time. Data is downloaded weekly and submitted to the Island Authority. The counters and tubes are monitored and replaced on a regular basis.

Miscellaneous Engineering Firms – HSA collects traffic data for site impact studies, PD&E studies, and Design Traffic development for multiple transportation engineering firms throughout the region on an as-needed basis.

Roadway Characteristics Inventory Consultant - Florida Department of Transportation District III – Mr. Cleland has assisted Ms. Gay Smith in the management of Prime Contracts for RCI since 2000. Mr. Cleland has significant experience with traditional roadway inventory tasks; having managed RCI data entry into IMS, creation of straight line diagrams, and reviewing SLD's created by other consultants.

Hurricane Floyd Evacuation Study - Project completed for the Governor's Hurricane Evacuation Task Force (2000), analyzed TTMS volumes in relation to the hurricane's location at given points in time.

Multi-Modal Corridor Planning Analysis - HSA conducted case studies for two arterials, and analyzed automobile, transit, bicycle, and pedestrian levels of service using innovative analysis methods. The project was conducted for the FDOT Central Office (Systems Planning).

Florida Freight Model - HSA is part of a consultant team developing a statewide computer model for forecasting freight movements. Mr. Cleland compiled data and provided various types of analysis.

Pensacola Urbanized Area Transportation Study (PUATS) 2020 Update (Sub-Consultant) for the Pensacola Metropolitan Planning Organization (MPO). Mr. Cleland developed a database of roadway segments, which included roadway characteristics for number of lanes, level of service, jurisdiction, functional classification, inclusion on the FIHS, etc.



THOMAS R. BEDELL
Director of Traffic Engineering

Academic Background Pratt Institute, Brooklyn, NY - School of Electrical Engineering
State University at Farmingdale, NY - Computer Science Studies
Brooklyn Polytechnic Institute - Part-time Studies
Fellow-Institute of Transportation Engineers
Member-ITE Urban Traffic Engineers Council
Member-Florida Section ITE
Member-Alabama Section ITE
Member-FSITE Subcommittee on Residential Traffic Control
Member-Florida Engineering Society
Professional Engineer-State of New York #56945, issued 9/7/79
Professional Engineer-State of Florida #28422, issued 10/5/79
Professional Engineer-State of Alabama #19176, issued 11/30/92
Professional Traffic Operations Engineer (PTOE) Certification, Issued 2/99

Professional Experience As Director of Traffic Engineering for HSA since 2000, Mr. Bedell is responsible for engineering analysis, plan documents, and engineering drawings for traffic signalization including installation of loop detection systems. As part of his work design and construction inspection of TTMS and PTMS sites are included. Recent projects for which he has provided QA/QC and project oversight for HSA include:

Statewide General Traffic Consultant Contract – Sub-Consultant to F.R. Aleman

Mr. Bedell provided project oversight for the inventory, inspection, repair and upgrade of telemetered traffic monitoring sites throughout FDOT District Three. He was responsible for the production and quality oversight for HSA on this contract. As a result, he developed solid working relationships with F.R. Aleman staff in this endeavor.

Statewide General TranStat Consultant Contract – Sub-Consultant to Marlin Engineering

Mr. currently provides oversight and quality control for inventory, inspection and repair of telemetered traffic monitoring sites throughout FDOT District Three and assists with sites in District Two as needed.

Districtwide Miscellaneous Counts and Projections, Florida Department of Transportation District 3 (1996 - 2003). Mr. Bedell provided project oversight for HSA on the volume and vehicle classification counts throughout the District (16 counties) for the annual traffic count inventory. Included were completion of counts for Urbanized Area Long-Range Plan Updates, and data collection for numerous Design Traffic Reports.

Miscellaneous Traffic Volume and Intersection Turning Movement Counts for Project Development Studies and Design Projects for HDR, PBS&J, Kimley Horn, Hatch Mott MacDonald, DRMP and so on.

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Projections

US98 PD&E Study – Naval Live Oaks to Portside Drive – Traffic Technical Memorandum/Highway Capacity Analysis

As Senior Traffic Engineer for the City of Pensacola from 1980 to 2000, Mr. Bedell completed the following:

- Developed procedures for identifying and analyzing high accident locations and established a continuing traffic count program for the City of Pensacola Florida.



THOMAS R. BEDELL,
P.E., PTOE

- Design, construction supervision and programming of signal system consisting of 48 intersections. SOAP and Passer II were used for critical intersection and arterial analysis
- TRANSTYT 7, through leased time at the University of West Florida, were used for network simulation & optimization. This work was completed with TRANSTYT 7F upon its release.
- Technical review of the feasibility study for the Areawide Escambia County Traffic Signal System which will include approximately 120 signals in Escambia County and the City of Pensacola.
- Technical coordination with the Florida Department of Transportation and JHK & Associates in the design and implementation of an Areawide closed loop traffic signal system to include approximately 130 signals in the City of Pensacola and Escambia County.
- Project Manager for five highway safety sub grants which included a microcomputer package, microcomputer enhancement package, traffic counters, a thermoplastic application system, and a video logging system for a sign inventory. The sign inventory entails the video logging of the city's approximately 8300 traffic signs. This data contains type, location, and condition and is entered into a computer database, using dBase 3+, for historical information and establishment of a maintenance replacement program.
- CBD Signal Timing Study in Pensacola, FL
- Cervantes Street Study under the GASCAP Program of the University of Florida-1986, Pensacola, FL
- 12th Avenue Signal Timing Study-1988
- Cervantes Street Closed Loop Signal System Design in Pensacola, FL -1992
- 12th Avenue Closed Loop Signal System Design in Pensacola, FL -1987
- Signing, Pavement Markings, Channelization; Palafox Street Re-construction in Pensacola, FL
- Cervantes & Perry Signal Design in Pensacola, FL -1986
- Barrancas & Main Street Signal Design in Pensacola, FL -1987
- Palafox Street Signal Reconstruction in Pensacola, FL -1992
-

As City Traffic Engineer for the City of Pensacola, Mr. Bedell was directly responsible for the design, installation, and maintenance of sub-systems of the Pensacola Computerized Traffic Signal System. Such activities included design and maintenance of the 12th Avenue sub-system including coordination equipment, interconnection cable and system sensors. The system sensors provide real-time traffic data for timing plan selection and produced an on-going historical database. The database was used to produce AADT, D, K and PHF's.

Other Project Experience

- Wal-Mart Signal Design in Escambia County - 1993
- Creighton Road Signal Timing Study in Escambia County - 1995
- US 98 & Hutchinson Signal Design in Destin - 1995
- US 29 Signal Timing Study in Escambia County - 1997
- Signal System Feasibility Study in Foley, AL - 1997
- Chiefs' Way Signal System Analysis and Design in Pensacola - 1998
- US 98 Traffic Analysis in Gulf Breeze - 1998
- SR 79 Signal Design in Panama City - 1999
- Davis Highway Design, Segment 1 and Segment 2 - Intersection Engineering Analysis
- Nine Mile Road Design - Intersection Engineering Analysis

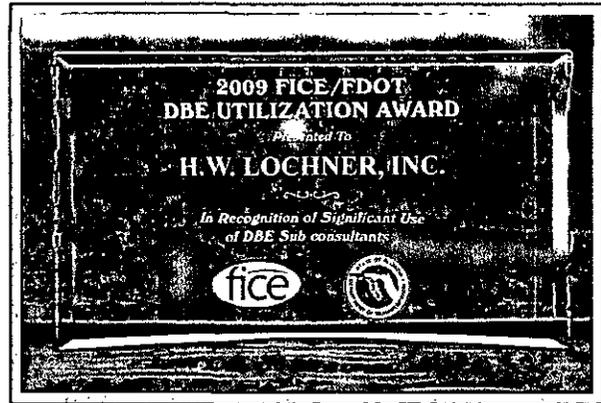
As Assistant Civil Engineer for the New York State Department of Transportation for 18 years, Mr. Bedell's experience included the following:

- Design of signals and signal systems and preparation of detailed plans, specifications, and estimates for signal and sign work included in construction projects.
- Calculating and refining signal timing settings
- Signal design and field layout for signal installations and modifications completed by State forces.
- As Engineer-in-charge of traffic signal operations, assumed responsibility for installation, modification, timing, and maintenance of approximately 725 traffic signals under the jurisdiction of the N.Y.S.D.O.T.
- Completed intersection analysis and design including application of traffic engineering principles for sophisticated signal systems (e.g. the computerized digital Sunrise Highway signal system)

Commitment to Minority/Women Business Enterprises

For assignments that require professional services beyond the capability of our local staff, such as survey, geotechnical, and traffic data collection, we will utilize local

Minority/Women Business Enterprises to fulfill Leon County's M/WBE participation goals. **Lochner** is committed to utilizing local small and minority businesses on our projects. In 2009 we received the FICE/FDOT DBE Utilization Award for being the #1 Engineering Firm in the State for DBE Utilization. Our current average DBE utilization rate on State projects exceeds 13 percent.



Diversified Design and Drafting Services (3DS), Environmental and Geotechnical Specialists (EGS), and Hamilton Smith and Associates (HSA), all certified M/WBE firms, will serve as subconsultants as needed on assignments under this contract. We have a long and successful work history with each of these firms.

B. Experience with Projects of a Similar Type and Size

The **Lochner Team** offers Leon County a strong local presence, a history of successful projects, and expertise in providing the services requested under this contract. The following projects demonstrate our recent project experience and qualifications in the Work Categories of Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, and Structural Engineering.

Sidewalk Improvement Projects (Group B-4)

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design
Project Description: Provided sidewalk construction plans for sections of Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets in Tallahassee. Major work efforts included sidewalk design, drainage design, utility coordination, and permitting.
Project Owner: City of Tallahassee
300 South Adams Street
Tallahassee, Florida 32301
Project Contact: Mr. Bill Woolery, PE
Project Manager
850.891.8471
Completion Date: April 2011
Project Team: David Freni, PE – Project Manager and EOR
Tony Alex, PE – Lead Roadway Engineer
Scott Simmons, EI – Roadway Engineer
Nick Lawrence, PE – Lead Drainage Engineer

Lonnbladh Road Stormwater Treatment Facility

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering
Project Description: Provided drainage analysis, design, and permitting of new 2 acre stormwater treatment pond for widening of Lonnbladh Road between Capital Circle and Olson Road.
Project Owner: City of Tallahassee
300 South Adams Street
Tallahassee, Florida 32301
Project Contact: Mr. Ken Rajabi, PE
Project Manager
850.891.8479
Completion Date: April 2011
Project Team: Natalie Zierden, PE – Project Manager and EOR
Nick Lawrence, PE – Lead Drainage Engineer

Providence Community Roadway Projects (Group N & Q)

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering

Project Description: Provided Preliminary Engineering Study, Design Services, and Post Design Services for street and drainage improvements to Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets in the Providence Neighborhood of Tallahassee. Major work efforts included roadway design, signing and marking design, drainage design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: City of Tallahassee
300 South Adams Street
Tallahassee, Florida 32301

Project Contact: Mr. Bill Woolery, PE
Project Manager
850.891.8471

Completion Date: February 2011

Project Team: Michael Woodard, PE – Project Manager and EOR
Tony Alex, PE - Lead Roadway Engineer
Scott Simmons, EI – Roadway Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

Capital Circle NW/SW Widening

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of Capital Circle from Orange Avenue to US 90 (Tennessee Street) in Tallahassee. Major design work efforts included roadway design, drainage design, bridge design, signing and marking design, signal design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: Blueprint 2000
2727 Apalachee Parkway, Suite 200
Tallahassee, Florida 32301

Project Contact: Mrs. Latesa Turner, PE
Project Manager
850.219.1060

Completion Date: June 2011

Project Team: Hugh Williams, PE – Project Manager and EOR
Michael Woodard, PE – Lead Roadway Engineer
Natalie Zierden, PE – Lead Drainage Engineer
Doug Hershey, PE – Lead Structural Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

Natural Bridge Road Bridge Replacement Project

Leon County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Structural Engineering
Project Description: Provided Design Services for replacement of bridge on Natural Bridge Road over a branch of St. Marks River. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date: July 2011

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Lead Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer

SR 20 over Gum Creek Bridge Replacement Project

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Structural Engineering
Project Description: Provided Design Services for replacement of bridge on SR 20 over Gum Creek in Tallahassee. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date: July 2011

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Lead Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer

SR 61 (US 319) Thomasville Road Resurfacing Project**Leon County, Florida****Firm Responsibility:** Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering**Project Description:** Provided Design Services for resurfacing, restoration, and rehabilitation of four-lane divided Thomasville Road from Chiles High School to Georgia line in Leon County. Major work efforts included roadway design, drainage design, bridge culvert design, traffic analysis, signing and marking design, utility coordination, and permitting.**Project Owner:** FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428**Project Contact:** Mr. Clay Hunter, PE
Project Manager
850.638.0250**Completion Date:** December 2010**Project Team:** David Freni, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer**SR 83 (US 331) Widening Project****Walton County, Florida****Firm Responsibility:** Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering**Project Description:** Provided PD&E Study and Design Services for four-lane widening of US 331 from US 98 to the Choctawhatchee Bridge in Walton County. Major design work efforts included roadway design, drainage design, signal and signal structure design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.**Project Owner:** FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428**Project Contact:** Mr. Dean Mitchell, PE
Project Manager (GEC, PBS&J)
850.638.2288**Completion Date:** December 2009**Project Team:** Hugh Williams, PE Project Manager
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Ryan Huebschman, PE Traffic Engineer

SR 85 at SR 123 Widening and New Interchange Project

Okaloosa County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of SR 85, four-lane widening of SR 123, and new grade separated interchange adjacent to NW Florida Regional Airport on Eglin AFB. Major design work efforts included roadway design, drainage design, signal and signal structure design, bridge design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mrs. Noelle Warren, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: March 2009

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

CR 388 (West Bay Parkway) PD&E Study, Segment 2

Bay County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and preliminary Design Services for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridge structures at three locations. Major design work efforts included preliminary roadway design, drainage design, intersection design, bridge design, signing and marking design, utility coordination, permitting coordination, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Brandon Bruner, PE
Project Manager
850.638.0250

Completion Date: June 2011 (PD&E Study); Design is on-going

Project Team: Hugh Williams, PE Project Manager and EOR
David Freni, PE Sr. Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer

C. Willingness to Meet Schedule and Budget Requirements

Working Efficiently

The **Lochner Team** is aware of the fiscal challenges that Leon County is currently facing and our approach to this contract will be to deliver solutions that maximize your investment on each assignment. We understand the importance of providing the most benefit for the taxpayers' dollars. One way we achieve this is through the use of senior staff to direct the heart of an assignment, and to provide quality control and quality assurance services, while junior, yet fully-capable, staff are used for the hour-to-hour production. This balancing of staff provides the best product at the lowest cost to you.

Communicating Effectively

The **Lochner Team** is committed to meeting your needs in a professional and timely manner while delivering high quality products on time and within budget. We will approach each assignment as a unique project with the understanding that creative solutions and designs are often necessary to make a project successful. As such, we recommend that a kick-off meeting be held for each assignment, with key project team members from the County, the **Lochner Team**, and other interested stakeholders present to identify project constraints, goals, and expectations. During the kick-off meeting, typical agenda items will include:

- Introduction of project team members, roles, and responsibilities
- Identification of project goals, concerns, and special constraints
- Review of budget and funding sources
- Review of schedule and critical milestones
- Discussion of creative alternatives, if needed

In addition to kick-off meetings, we propose to have milestone or phase review meetings, as needed, and we will always maintain open lines of communication with and coordinate with the appropriate County staff and other team members to ensure projects stay on track.

Maintaining High Quality

A good quality control plan must be adhered to even more so on the short duration task assignments under this contract than with other longer duration design contracts. The reason for this is because there is less time and fewer opportunities to find and correct mistakes. When schedules are compressed and phase submittals are omitted, it becomes even more imperative to follow the quality control plan. **Lochner** has a quality control program that has been tested and proven to be very dependable for many years and this is reflected by the high grades and re-selections we consistently receive from our clients on other design contracts. Avoiding errors and omissions saves everyone time and money.

D. Effect of Firm's Recent, Current, and Projected Workload

Our key staff members currently have an overall availability of more than 50% through October 2011 and 50-75% availability for the remainder of 2011. We are ready and willing to respond to any task assignment under this contract. You call us and we are there!

The following list gives details of the active design projects being managed from our Tallahassee Office.

Capital Circle NW/SW Widening

Project Manager: Hugh Williams
Estimated Completion Date: June 2011

Lonnbladh Road Stormwater Treatment Facility

Project Manager: Natalie Zierden
Estimated Completion Date: April 2011

Tallahassee Sidewalks, Group B-4

Project Manager: Tony Alex
Estimated Completion Date: April 2011

SR 20 Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: June 2011

Natural Bridge Rd Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: August 2011

CR 388 PD&E Study, Segment 1

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

Starke Bypass New Alignment

Project Manager: Hugh Williams
Estimated Completion Date: November 2011

US 17 Widening

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

E. Effect of Project Team Location

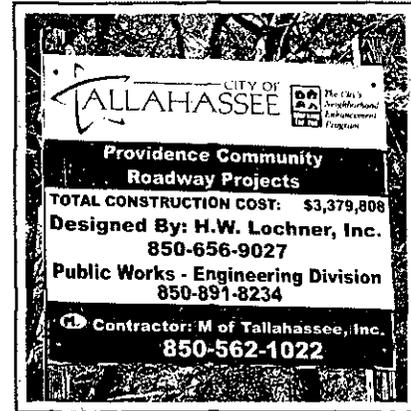
Lochner has maintained an office in Tallahassee since 1998. We are located just two miles from the Leon County Public Works Department and three miles from the Leon County Commission Chambers, which provides convenient access and minimal notice to attend meetings at either location.

With our project manager (David Freni, PE), a full roadway and drainage design group, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

We currently have 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering.

F. Approach to the Project

Upon receiving notice of a planned work order, David will be the first to thoroughly discuss the project objectives with the County's project manager. David and other members of the **Lochner Team**, as needed, will then conduct a cursory review of the project limits and prepare a scope, fee, and schedule for the proposed work to ensure that we all have the same understanding of the project's objectives and constraints. Depending upon the scope and work mix of these assignments, the **Lochner Team** is capable of assigning up to six teams to work on projects under this contract at any one time. David has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.



Our approach to every project is simple. We will help you achieve your goals by:

- Responding Immediately
- Working Efficiently
- Communicating Effectively
- Maintaining High Quality



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Roadway Design

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A. Ability of Professional Personnel

People Resources

Lochner currently has 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering. With our project manager (David Freni, PE), a roadway design group and drainage design group capable of performing the full range of services within these disciplines, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

All Roadway Design and Stormwater Engineering services will be provided by our Tallahassee office staff. Some Traffic and Intersection Engineering services will be supported by our Clearwater office, particularly by way of providing traffic analysis, signal design, and lighting design. All Structural Engineering services will be supported by our Clearwater and Lexington offices.

As you will see in the staff resumes and statements of project experience that follow, our proposed **Lochner Team** has a vast amount of experience working together successfully on projects here in Leon County. Our team is organized to be responsive to the needs of Leon County by providing the resources necessary to address all of the work assignments anticipated under this contract.

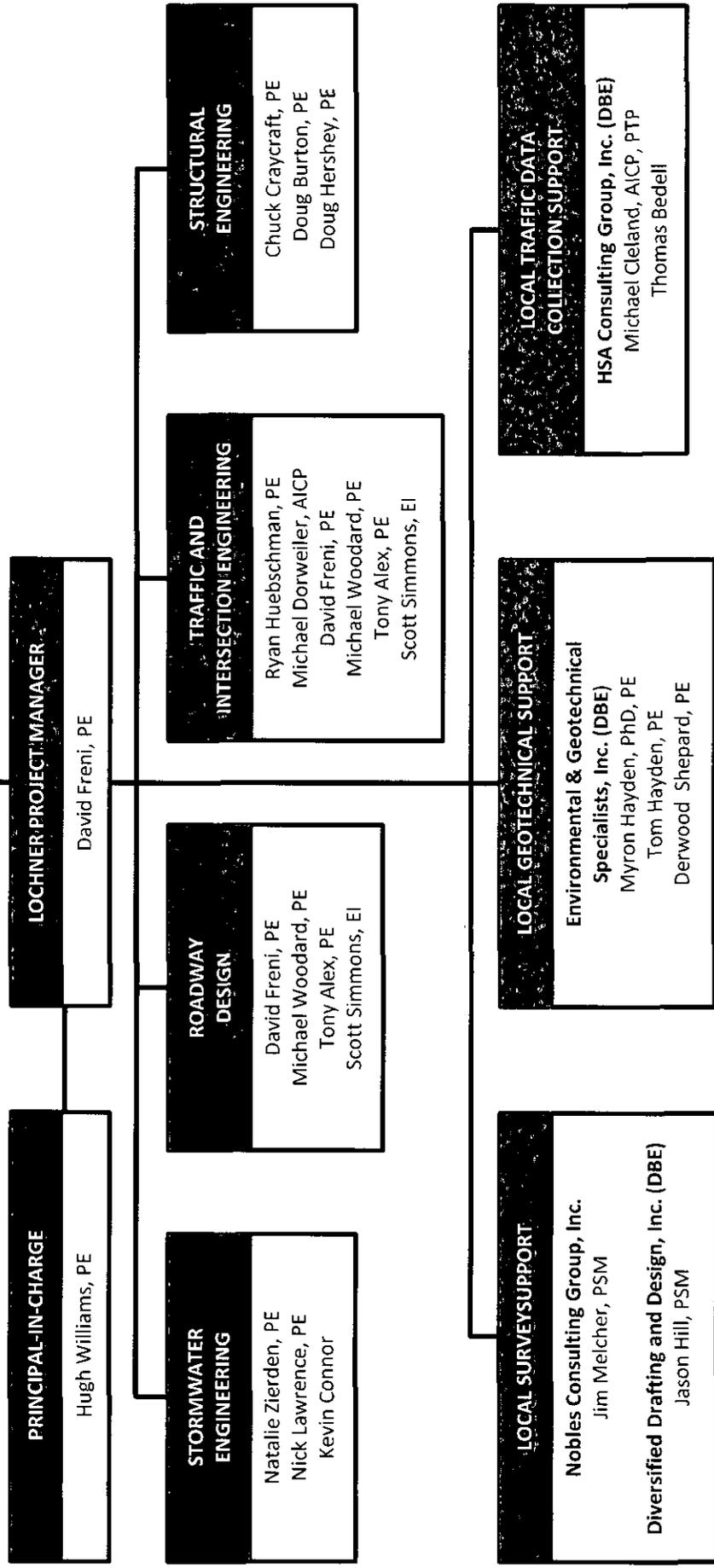
Additionally, depending upon the scope and work mix of the assignments, we are capable of assigning up to six teams to work on projects under this contract at any one time. Ultimately, our project manager, David Freni, has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.

Technical Resources

In the 1960s **Lochner** developed early engineering software with applications for highway geometry, drainage, earthwork, and bridge design. One of the first comprehensive highway design software systems called HDPS was developed by **Lochner**. HDPS was endorsed by FHWA and many state DOTs.

Today **Lochner** has extensive experience in developing and implementing production and design programs for various governmental agencies. We utilize the latest and greatest design programs and equipment to efficiently provide our clients with high quality products. Our primary roadway design software is Microstation and AutoCadd, making use of the most current FDOT Site Menus; For drainage and stormwater modeling we use Geopak Drainage, ASAD, HECRAS, ICPR, and Hydraflow; For bridge design we use Conspan, RC-Pier, MDX, STAAD, FB-Multiplier, PCA Column, and other FDOT programs that utilize Mathcad. While **Lochner** has already demonstrated its competence in the above software to clients, we understand the need to remain current with new software releases and design techniques as they become available, and commit ourselves to seeking every avenue that will bring a better final product to our clients.

Organizational Chart



Hugh Williams, PE

Principal-In-Charge Quality Assurance

Mr. Hugh Williams, PE, is a Senior Project Manager and one of Lochner's Vice Presidents. He joined Lochner in 1986, bringing with him 11 years' prior experience in transportation engineering. Mr. Williams has a broad managerial and roadway engineering background, encompassing both project development and environment (PD&E) studies and final design projects. He has served as Project Manager or Task Leader for projects involving the new construction, reconstruction and/or rehabilitation of urban arterials, rural expressways, interstate highways, interchanges and intersections, railroad facilities, and airport taxiways. Mr. Williams has particular expertise in the development of traffic control and construction staging plans for complex projects in densely populated areas. Mr. Williams is a highly experienced project manager. He has led many high-profile PD&E studies and transportation design projects requiring the coordination, scheduling, and oversight of multi-disciplinary engineering staff and large subconsultant teams. Such projects include the design of improvements to the SR 102/International Airport Boulevard interchange in Jacksonville, Florida, which was named 'Urban Interchange Project of the Year' by the Florida Road Builders Association. He has also led a number of environmentally sensitive projects, notably including the PD&E study for a proposed 24-mile expressway/arterial in Walton and Bay Counties, Florida, predominantly on new alignment, with a high-level bridge over the Intracoastal Waterway.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Project Manager and EOR

SR 83 (US 331) from US 98 to Choctawhatchee Bridge, Walton County, FL, Florida Department of Transportation-District 3, Project Development & Environment Study and Final Design of roadway, drainage, structures, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans for reconstruction of 1.5 miles of existing two-lane rural arterial roadway to a four-lane divided urban arterial roadway.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Project Manager and EOR

Districtwide Miscellaneous Design Drainage Consultant, Florida Department of Transportation-District 3, Provided drainage design and a wide variety of hydrologic and hydraulic services.

Principal-in-Charge

Years of Experience:

36

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1976

Professional Registration:

Professional Engineer: FL #23034

Professional Engineer: TX #TBD

Professional Engineer: GA #032302

Professional Organizations:

Florida Engineering Society

National Society of Professional Engineers

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development
- Construction Phasing Plans
- Design Management
- Design Study Reports
- Environmental Assessments
- Environmental Impact Statements
- Environmental Studies
- Freeway Design
- Government and Agency Coordination
- Hydraulic Design
- Hydrology
- Interchange Design
- Intersection Design
- Local Street Improvements
- Park and Ride Lots
- Parking Lot and Site Layout Design
- Pavement Design
- Project Management
- Public Involvement Plan Development
- Public Private Partnership
- Quality Control and Assurance
- Railroad Crossing Design
- Railroad Design
- Right-of-Way Acquisition
- Roadway Design
- Roadway Widening and Reconstruction
- Roundabout Design
- Rural Highway Design

David Freni, PE

Project Manager

Mr. David Freni, PE, is a Senior Highway Design Engineer with civil engineering experience predominantly within the field of transportation. He joined Lochner in 2009.

Mr. Freni has considerable experience – as an engineer and manager – with roadway and drainage design projects, including design-builds. He has led design for the new construction, reconstruction, and/or rehabilitation of city streets, intersections, urban and rural arterials, expressways, interchanges, and multi-use trails. His roadway design expertise includes geometric design, traffic control planning, specification development, environmental permitting, and construction staging. As a Project Manager, he has successfully headed large, multi-disciplinary projects requiring coordination with numerous subconsultant firms. He has worked with clients ranging from state Departments of Transportation to regional economic development alliances to counties, municipalities, and private developers.

In addition to roadway engineering, Mr. Freni has worked in the fields of site development design and geotechnical engineering. His experience in these areas includes soil testing and classification, drilling operations, and geotechnical and environmental site assessments.

Project Experience

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Project Manager and EOR

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Deputy Project Manager and Senior Roadway Engineer

Capital Circle SE, Tallahassee, FL, Blueprint 2000, Design-Build project for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway from Tram Road to Connie Drive, included roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, traffic control, and permitting.

Roadway Design EOR

Years of Experience:

18

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1992

Professional Registration:

Professional Engineer: FL #51367

Professional Organizations:

Florida Engineering Society

Certifications:

Advanced Maintenance of Traffic Qualification
Qualified Stormwater Management Inspector

Areas of Expertise:

- Design Management
- Program Management
- Project Management
- Intersection Design
- Multi-Modal Trail Design
- Permit Coordination
- Quality Control and Assurance
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Urban Arterial Design

Michael Woodard, PE

Senior Roadway Design Engineer

Mr. Michael Woodard, PE, is a Senior Highway Design Engineer and Project Manager. He joined Lochner in 1999, bringing with him 15 years of engineering experience, seven of which were within the transportation industry. He specializes in roadway design.

During his career, Mr. Woodard has worked on dozens of roadway design projects, ranging in size from sidewalk improvements to large, complex interchanges, and encompassing both urban and rural facilities. He has expertise in all aspects of the roadway design process, including horizontal and vertical geometry, intersection reconfiguration, traffic control plans, utility relocation, earthwork computations, cost and quantity estimating, and pavement design. Mr. Woodard also has considerable experience in the design of box culverts and open and closed drainage systems.

Mr. Woodard has held lead design and project management roles on many large transportation projects. Notably, he is the Senior Roadway Engineer for the high-profile Capital Circle reconstruction and widening project in Tallahassee, Florida, which is being completed under design-build delivery. With his wealth of experience, Mr. Woodard is often called upon to perform peer review and quality assurance for roadway and drainage design plans prepared in Lochner offices across the country.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Design Engineer responsible for:

- Designing horizontal and vertical geometry
- Developing roadway plans
- Performing pavement design

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Project Manager and EOR

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Project Manager and EOR

Years of Experience:

18

Education:

Bachelor of Science in Marine Engineering,
U.S. Merchant Marine Academy, 1981
Masters of Science in Civil Engineering,
University of Central Florida, 1992

Professional Registration:

Professional Engineer: FL #47736

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- ADA Requirements
- Alternative Analysis
- Collaboration with Engineering and Construction Teams
- Construction Cost Estimating
- Detention / Retention Pond Design
- Geometric Layout Design
- Geopak
- Interchange Design
- Intersection Reconfiguration Design
- Local Street Improvements
- MicroStation
- Pavement Design
- Project Management
- Public Meeting Participation
- Quality Control and Assurance
- Right-of-Way Acquisition
- Roadway and Highway Design
- Rural Highway Design
- Storm Drain System Design
- Subconsultant Coordination

Tony Alex, PE

Roadway/Traffic Design Engineer

Mr. Tony Alex, PE, is a Highway Design Engineer. He joined Lochner in 2002, bringing with him three years' professional engineering experience. He specializes in roadway design.

Mr. Alex has experience in planning and final design for a variety of roadway projects. His project background encompasses new corridors on new alignment, the reconstruction of multi-lane facilities and interchanges, the widening of rural highways and urban arterials, and city street improvements. He has also worked on project development and environment (PD&E) studies. His expertise includes vertical and horizontal geometric design, quantity and cost estimation, traffic control planning, traffic calming design, natural features inventory, permit application preparation, and storm drain design. Mr. Alex also has experience in GIS data analysis and mapping, intersection analysis, and AutoTURN analysis. He is proficient with MicroStation, GeoPak, and ArcGIS planning and design software and with MS Project, SureTrak, and Primavera project management software.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Design Engineer responsible for:

- Developing sidewalk and traffic control plans

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including traffic control, signing and markings, drainage and permitting

Years of Experience:

12

Education:

Bachelor of Science in Civil Engineering,
University of Calicut, 1995

Masters of Science in Civil Engineering,
University of Alabama, 2003

Diploma in (Post Graduate) Construction
Management,

National Institute of Construction Management and
Research, 1999

Professional Registration:

Professional Engineer: FL #62465

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Construction Phasing Plans
- Cost Estimate Development
- Cost Estimates and Specifications
- Engineering Quantity Take-offs
- GIS Analysis and Mapping
- GIS Data Research, Evaluation and Mapping
- Guardrail and Safety Barrier Design
- Interchange Design
- Local Street Improvements
- Maintenance-of-Traffic Evaluation
- Maintenance-of-Traffic Plans
- Plan Set Assembly
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design
- Stormdrain Design
- Traffic Control Design
- Urban Arterial Design
- Utility Relocation Design

Scott Simmons, EI

Roadway/Traffic Design Engineer

Mr. Scott Simmons is a Highway Design Engineer. He worked with Lochner as an intern from 2001 and became a full-time member of the roadway engineering team in 2004.

Mr. Simmons has been involved in the roadway design process for a number of different facilities, including city streets, rural highways, urban arterials, and large interchanges. He has worked on several projects from the preliminary design stage right through to submittal of construction documentation. His project expertise encompasses the full spectrum of plans production, including horizontal and vertical alignment, cross sections, right-of-way, erosion control, and quantity estimation. He has also prepared numerous signing and pavement marking plans.

Mr. Simmons is proficient with MicroStation and Geopak, and is responsible for making electronic submissions of project deliverables. He has undertaken training in construction estimating, long-range estimating, specifications preparation, and Americans with Disabilities Act (ADA) requirements.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with sidewalk design
- Computation book quantities, and cost estimate

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Roadway Engineer responsible for:

- Assisting with roadway design alternatives and intersection analysis
- Assisting with the Preliminary Engineering Report

Years of Experience:

10

Education:

Associates in of Arts,
Tallahassee Community College, 2001
Bachelor of Science in Civil Engineering,
Florida State University, 2004

Professional Registration:

Engineer In Training: FL #1100010209

Areas of Expertise:

- ADA Requirements
- Cost Estimates and Specifications
- Electronic Delivery and PEDDS Software
- Engineering Estimate Development
- Engineering Quantity Take-offs
- Geopak
- Horizontal and Vertical Alignment Design
- Intersection Design
- MicroStation
- Plan Set Assembly
- Presentation Material Preparation
- Roadway and Highway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design

Natalie Zierden, PE

Senior Drainage Design Engineer

Ms. Zierden joined Lochner in 2010 with experience in drainage design and is thoroughly familiar with the stormwater design and permitting requirements of various environmental agencies and local, state, and federal governments. She is skilled in drainage modeling software including SWMM, StormCAD, PONDS as well as ICPR, WSPRO, UNET, HEC-RAS, ASAD and Hydrain. Ms. Zierden also has a thorough understanding of construction plans and documents, topographic surveys and she is knowledgeable of applicable rules and design codes.

Project Experience

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Lead Drainage Design Engineer responsible for:

- Location Hydraulics Report Preparation
- Pond Siting

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Drainage Design Engineer responsible for:

- Gabion Mattress Design
- Quality Control for Hydraulic Calculations

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Project Manager and Lead Drainage EOR for:

- Stormwater treatment and attenuation
- Floodplain Mitigation Design
- Permit Coordination

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Lead Drainage Design Engineer responsible for:

- Bridge Hydraulics Report Preparation
- No-rise Certification Preparation
- Stormwater treatment design
- Permit Coordination

Years of Experience:

13

Education:

Bachelor of Science in Environmental Engineering,
University of Florida, 1994

Professional Registration:

Professional Engineer: FL #56072

Professional Engineer: GA #28350

Certifications:

Project Management Training

Safety Training

Stormwater Management Inspector Training

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Sewer Line Design
- Stormdrain Design
- Design Management
- Program Management
- Project Management
- Quality Control and Assurance
- Parking Lot and Site Layout Design
- Pavement Design
- Permit Coordination
- Value Engineering
- Site Grading Plans
- Government and Agency Coordination
- Public and Media Outreach Material Development
- Public Involvement Plan Development
- Stakeholder Facilitation and Workshops

Nick Lawrence, PE

Drainage Design Engineer

Mr. Lawrence joined Lochner in April 2010. His previous work experience includes permitting with state and local agencies, involving a range of civil design and specializing in drainage engineering. Permitting experience includes projects in Duval, St. Johns, Leon, Jefferson, and Wakulla counties, as well as with state agencies including SJRWMD, NFWFMD, FDEP, and FDOT.

His experience was acquired with a background in civil site design while gaining exposure to the layout, design, and production of construction documents for residential and commercial developments including utilities, stormwater, and roadways. He has competencies in most all areas of hydrologic and hydraulic design, analysis, and modeling. His extensive stormwater management facility design includes wet and dry detention, retention, and facilities using combinations. He is proficient in techniques of predicting stormwater runoff using SCS and Green-Ampt methodologies. He has had responsibilities for flood studies and large watershed modeling including calibration to recorded measurements and is experienced in hydrologic analysis of rainfall data for continuous simulations for periods of up to five years. His design experience has included soil analyses and classification for purposes of stormwater facility design.

Project Experience

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Designing open stormwater conveyance systems
- Designing floodplain compensation areas
- Environmental permitting

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Developing sediment and erosion control plans
- Drainage documentation
- Environmental permitting

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Drainage Engineer responsible for:

- Developing storm sewer and open ditch conveyance systems
- Drainage documentation
- Environmental permitting

Years of Experience:

5

Education:

Bachelor of Science in Civil Engineering,
Florida State University, 2005

Professional Registration:

Professional Engineer: FL #70818

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Irrigation Coordination and Design
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Scour Analysis
- Sewer Line Design
- Stormdrain Design
- Water Line Design
- Cost Estimates and Specifications
- Drafting
- Engineering Quantity Take-offs
- Parking Lot and Site Layout Design
- Pedestrian Ramp Design
- Phased Construction Plan Design
- Plan Set Assembly
- Roadway Design
- Utility Relocation Design
- ADA Requirements

Kevin Connor

Senior Environmental Manager

Mr. Connor is a Senior Environmental Manager with H. W. Lochner. He has 16 years of experience providing a wide range of environmental and ecological services. His experience encompasses both upland and wetland habitats, and includes wetland delineations and jurisdictional determinations; habitat mapping and value assessments; wildlife surveys and relocations; mitigation design, construction, monitoring, and maintenance; and expert witness testimony. Mr. Connor is trained in performing wetland delineations in accordance with State of Florida and Federal (U.S. Army Corps of Engineers) guidelines. He is also experienced in environmental permitting and has attained ERP and Section 404 Permits for numerous roadways, mining, and other individual projects as well as Threatened and Endangered Species Relocation and Incidental Take Permits, U.S. Coast Guard Bridge Permits, and many local Environmental Permits. Mr. Connor is also experienced in the National Environmental Policy Act (NEPA) process and documentation as well as the Uniform Mitigation Assessment Method (UMAM) and its use in ERP and Section 404 permitting.

His hands-on field experience is also a key ingredient in the development and implementation of mitigation designs and remediation plans. He has aided in the development of mitigation designs and construction inspections for several mitigation sites in throughout Florida. While working on his Master's degree, Mr. Connor spent three years monitoring habitat requirements and behavior of gopher tortoises, a species designated as Threatened by the State of Florida. In addition, Mr. Connor participated in surveys to evaluate habitats for wildlife utilization and to document the presence of amphibians and reptiles throughout central and south Florida. While at Wake Forest University, Mr. Connor worked in an ecology lab where he participated in a long-term project monitoring plants for resistance to diseases.

Project Experience

118th Expressway, Clearwater, FL, PBS&J, Structural design services for the construction of a new urban expressway within the existing median of 118th Avenue. Lochner prepared a bridge development report for three structures (totaling over 6,000 feet in length and including post-tensioned straddle bents) and final design plans for one structure—a 1,600-foot bridge that incorporates the new Florida I-Beam. Lochner is also responsible for traffic control, construction staging, lighting design, environmental field work, and utility coordination.

Environmental Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

CR 388 PD&E Study, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study for the existing CR 388 roadway corridor, and its extension on new alignment, from US 98 in Walton County to SR 77 in Bay County.

Environmental Lead responsible for:

- Performing field work, collecting environmental data including wetland assessments and threatened and endangered species surveys, and writing environmental reports including Wetland Evaluation Report and Endangered Species Biological Assessment.

FDOT D3 Misc Bridge Repair C-8R81, Chipley, FL, Florida Department of Transportation-District 3, Lochner developed Fracture Critical Checklists for two bridges in District 3. The checklists were utilized by FDOT inspectors to record findings.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

SR 688 (Ulmerton Road), from West of Lake Seminole Bypass Canal to East of Wild Acres Road, Pinellas County, FL, E.C. Driver & Associates, Inc., The proposed improvements involve widening of SR 688 (Ulmerton Road), from west of the Lake Seminole Bypass Canal to east of Wild Acres Road, in Pinellas County, Florida. The length of the project is approximately 1.4 miles.

Environmental Permit Lead responsible for:

Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Years of Experience:

16

Education:

Bachelor of Science in Biology,
Wake Forest University, 1992
Masters of Science in Zoology,
University of South Florida, 1996

Certifications:

Authorized Gopher Tortoise Agent
Stormwater Management Inspector

Areas of Expertise:

- Environmental Permitting
- Wetland Delineations and Assessments
- Wetland Mitigation Services
- Protected Species Surveys, Relocations, and Management Plans
- NEPA Documentation
- Habitat Systems Restoration and Design
- Expert Witness Services

Ryan Huebschman, PE

Traffic Design Engineer

Mr. Ryan Huebschman, PE, is a Traffic Engineer with 10 years' of experience. He has been a member of the Lochner team since 2003. Mr. Huebschman has performed traffic engineering and design tasks within a variety of transportation projects for municipal, county, and state transportation agencies, as well as private developers. He has produced signalization, signing, pavement marking, and/or lighting designs for more than 25 roadway projects – ranging from new residential streets to major expressway conversions. He has considerable experience in the area of traffic studies, ranging from intersection analysis to travel time studies. Mr. Huebschman is proficient with a range of traffic analysis and engineering software, such as CORSIM, Synchro, SimTraffic, HCS, Visual, and MicroStation.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway which involves the reconstruction of approximately three miles of an existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, and is an emerging SIS Connector.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Traffic Engineer responsible for:

- Project management, signalization design, pavement marking design, signing design, and lighting analysis and design.

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities.

Supervisor (Task Mgr.), Transportation Engineer responsible for:

- Operational studies, planning studies, and transportation planning.

SR 83 (US 331) from US 98 to Choctawhatchee Bay, Walton County, FL, Florida Department of Transportation-District 3, Final design and preparation of construction plans for roadway, drainage, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans. Project included 1.5 miles of widening from a two-lane rural arterial to a four-lane divided urban arterial of SR 83 (US 331) in Walton County, Florida.

Transportation Engineer responsible for:

- Signalization design.

SR 85 from General Bond Blvd. to N. of Okaloosa Regional Airport - Plans Update Phase,

Okaloosa County, FL, Florida Department of Transportation-District 3, Full design services for multi-lane reconstruction including a new interchange with grade separation at SR 123 and a new interchange adjacent to NW Florida Regional Airport in Okaloosa County, FL. Service includes defining the improvement and interchange types for the facility, and updating & re-evaluating the analysis from two prior PD&E Studies. SR 85 is an emerging SIS Connector.

Design Engineer responsible for:

- Lighting design.

US 98 PD&E Study (Traffic Planning), Okaloosa & Walton Counties, FL, Hatch Mott MacDonald, Inc., Traffic engineering services—data collection, operational and multimodal analysis, preparation of traffic study report—for project development and environment (PD&E) study on 12 miles of US 98 in Okaloosa and Walton counties, Florida.

Traffic Engineer responsible for:

- Traffic analysis.

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
Purdue University, 2001

Masters of Science in Civil Engineering,
Purdue University, 2003

Professional Registration:

Professional Engineer: FL #66919

Areas of Expertise:

- ADA Requirements
- Concept Development
- Design Study Reports
- Drafting
- Existing Conditions Analysis
- Interchange Design
- Intersection Analysis
- Intersection Design
- Lighting Design
- Long Range Planning
- Maintenance-of-Traffic Evaluation
- Pavement Design
- Plan Set Assembly
- Roundabout Design
- Signal Design
- Signing and Striping Design
- Single Point Urban Interchange Design
- Traffic Analysis
- Traffic Control Design
- Traffic Modeling
- Urban Arterial Design

Michael Dorweiler, AICP

Transportation Planner

Mr. Dorweiler serves as a Project Manager for H.W. Lochner, Inc. in the Transportation Planning and Traffic Operation Division. He has experience in transportation planning and engineering, including transportation systems planning, corridor studies, long-range planning, traffic impact analyses, and traffic operations. He has worked closely with Department of Transportation staff in corridor and level of service (LOS) analyses, project development and environmental (PD&E) studies, traffic impact studies, access management, and development of a congestion management system. He has managed projects that have included assessing existing and future traffic conditions using Highway Capacity software, FDOT LOSPLAN, Synchro, CORSIM, and VISSIM in determining conventional and non-conventional intersection and interchange concepts, including express lanes and continuous flow intersections. He has enjoyed fostering relationships with various planning, EMO, traffic operations, design, cities and counties staff on projects conducted through the States of Florida, Georgia, North Carolina, New Mexico, Utah, Arizona, Colorado, Wyoming, Montana, Idaho, and Nevada.

Project Experience

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities. Project Manager responsible for contract management.

General Engineering Consultant (GEC), Florida Department of Transportation District One.

Task manager overseeing planning tasks under the contract, including developing a congestion management system process for the Florida Intrastate Highway System (FIHS)/Strategic Intermodal System (SIS) for the twelve counties within District One, defining a Rural Roadway Network for the six rural counties (De Soto, Glades, Hardee, Hendry, Highlands and Okeechobee), and tracking project priorities as part of the Work Program support.

SR 82/Daniels Parkway and US 41/SR 951 Continuous Flow Intersections, Lee and Collier Counties, Florida, Florida Department of Transportation FDOT District One. Task manager coordinating the review of an innovative intersection concept, designed to minimize intersection delays for left turning vehicles, based on VISSIM simulation of design hour traffic, under the GEC contract.

US 41 Corridor Safety Study, Manatee County, Florida, Florida Department of Transportation District One. Project manager determining existing operational deficiencies and recommending improvements to a seven-lane roadway section in south Manatee County, under the GEC contract.

General Planning Consultant, Florida Department of Transportation District Seven. Project manager overseeing a task based contract which to date has included development of the Tampa Bay Regional Planning Model (TBRPM) 2035 Needs network, review of comprehensive plans submitted to the District, review of project traffic reports, and assessment of design alternatives for modifying the existing Skyway Fishing Piers in Florida Department of Transportation Districts One and Seven.

General Planning Consultant, Manatee County, Florida. Project manager overseeing a contract for reviewing various DRIs and traffic impact studies in the County from a traffic operational analysis and impact perspective, based on DRI and county concurrency guidelines.

Planning Services Contract, Central Florida Regional Planning Council. Project manager for a contract in which PBS&J has been retained to provide transportation planning, environmental and graphic information systems (GIS) support and which to date has included development of a concurrency management system for over 30 local jurisdictions in central and southwest Florida.

Years of Experience:

18

Education:

Masters of Science in Civil Engineering,
Georgia Institute of Technology, 1994

Bachelor of Arts in Liberal Arts,

Gustavus Adolphus College, 1985

Master of City Planning in City Planning,

Georgia Institute of Technology, 1994

Professional Registration:

American Institute of Certified Planners #099555

Professional Organizations:

American Planning Association (APA)

Institute of Transportation Engineers (ITE)

Certifications:

Planner

Areas of Expertise:

- Access Management
- Comprehensive Plan Review
- Congestion Management Studies
- Corridor Studies
- Cost Estimating/Analysis
- Development of Congestion Management System
- DRI/Site Impact Analysis
- Feasibility Studies
- Land Use Planning
- Level of Service (LOS) Analyses
- Long-Range Planning
- MPO/Local Government Coordination
- Plans Review
- Project Development and Environmental (PD&E) Studies
- Signal Design
- SubArea Studies
- TIP/LRTP Coordination
- Traffic Control Design
- Traffic Impact Analyses
- Traffic Impact Studies
- Traffic Operations
- Transit Planning
- Traffic Reports
- Traffic Simulation
- Transportation Planning
- Travel Characteristics Surveys

Chuck Craycraft, PE

Senior Structural Design Engineer

Mr. Charles Craycraft, PE, is Lochner's Southern Regional Leader and one of the firm's Senior Vice Presidents. Mr. Craycraft joined Lochner in 1981, bringing with him five prior years' experience in the field of structural engineering. Mr. Craycraft has worked on numerous structural engineering projects in seven states, and has particular expertise in the analysis and design of prestressed concrete and structural steel bridges. He has experience in bridge design on every size and scale – from small creek crossings, to multi-level interstate interchanges, to major waterway crossings. Mr. Craycraft has been the Project Manager or Lead Structural Engineer for many high profile projects. These include the landmark Paris Pike project, which has become an industry standard for context sensitive design; several complex interchange reconstructions on I-75; and I-15 reconstruction under design-build delivery. Mr. Craycraft has also managed an on-call bridge repair and rehabilitation program for the Florida Department of Transportation's District 3 since 1990. This project has involved a number of specialized tasks, such as hurricane analysis of coastal bridges and the investigation of cathodic protection for prestressed concrete piles. As the Southern Regional Leader, Mr. Craycraft heads a multi-disciplinary team of more than 140 engineers, technicians, inspectors, and administrative staff located in nine offices. In addition to managing financial, business development, administrative, and staffing operations, Mr. Craycraft is responsible for the quality assurance of many of the region's structural projects. Mr. Craycraft brings his wealth of experience to the ACEC-KY Transportation Design and Planning Committee, which liaises between the Kentucky Transportation Cabinet and the engineering community to enhance design and planning in the state.

Project Experience

District Three Miscellaneous Design Projects, , FL, Florida Department of Transportation-District 3,
Program Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments

Districtwide Miscellaneous Minor Design, Leon County, FL, Florida Department of Transportation-District 3,

Lead Structural Design Engineer responsible for:

- Providing structural engineering for various projects.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Principal-in-Charge responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges

FDOT District 3 Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Supervisor (Task Mgr.) and Project Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges.

Berea College Traffic Study, Berea, KY, Berea College, Traffic study to determine potential impacts of closing Short Street located behind historic Boone Tavern on the Berea College Campus in Berea, Kentucky. Tasks included traffic counts, modeling and analysis.

Principal-in-Charge responsible for:

- Overseeing traffic study to determine potential impacts of closing Short Street, supervising traffic counts and modeling, and overseeing presentations to city council and city planning commission.

Years of Experience:

29

Education:

Bachelor of Science in Civil Engineering,
University of Missouri, 1985

Professional Registration:

Professional Engineer: FL #40118

Certifications:

Traffic Noise Analysis
Water Quality Impact Evaluation

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development and Reports
- Constructability Review
- Coordination with Environmental, Design, and Construction teams
- Cost Estimate Development
- Design Study Reports
- Engineering Quantity Take-offs
- Environmental Specification Compliance
- Environmental Studies
- Erosion Control Design
- Existing Conditions Analysis
- Freeway Design
- Government and Agency Coordination
- Hydraulic Analysis and Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Local Street Improvements
- Natural Resource Evaluation
- Parking Lot and Site Layout Design
- Permit Coordination
- Phased Construction Plan Design
- Plan Reviews
- PS&E Plans
- Quality Control and Assurance
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Roadway Widening and Reconstruction
- Rural Highway Design
- Scour Analysis
- Sewer Line Design
- Shop Drawing Review
- Site Grading Plans
- Stakeholder Committee Group Coordination
- Stormdrain Design

Doug Burton, PE, PMP

Structural Design Engineer

Mr. Doug Burton, PE, is a Structural Project Manager in Lochner's Lexington, Kentucky, office. Mr. Burton joined Lochner in 2003 with two prior years of structural engineering experience within the transportation industry. Over his career, Mr. Burton has been involved in the design and analysis of bridges and culverts in Florida, North Carolina, Utah and Kentucky. His experience includes the design of concrete, prestressed concrete, steel and steel box girder bridges for many different highway facilities. Mr. Burton also has considerable expertise in structural analysis and load rating. Notably, he conducted analysis of the 13,000-foot Bonner Bridge, a connection between the North Carolina mainland and the Outer Banks, to develop a comprehensive repair and rehabilitation plan for the structure. Mr. Burton also has experience in the inspection of bridges, overhead signs and high-mast lighting structures.

Mr. Burton has held lead design and project management roles on many of the Lexington office's structural projects. He was the Lead Structural Design Engineer for Section 4 of the high profile Ohio River Bridges project. As well as overseeing the design of five bridges and multiple retaining walls, Mr. Burton was involved with the project's public participation and context-sensitive design initiatives. Mr. Burton is actively involved with a number of professional engineering associations, and has held leadership roles within the Kentucky Society of Professional Engineers' (KSPE) and the American Society of Civil Engineers' (ASCE) Bluegrass sections.

Project Experience

Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Structural Design Engineer responsible for:

- Structural design for on-call contract for bridge design services.

On-Call Bridge Engineering & Design (2001-2004), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Performing bridge load ratings using computer programs MDX and BARS.

On-Call Bridge Engineering & Design (2002-2007), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Developing plans/design for bridge rehabilitation projects, expansion joints, bearing pads, scour mediation, maintenance painting, bat guano cleaning, and development for replacement of a PCIB after vehicular collision.

On-Call Bridge Engineering & Design (2005-2009), Florida Department of Transportation-District 3 Chipley, FL, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Manager responsible for:

- Analyzing existing bridges for susceptibility to scour.

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek. Replacement bridge at SR 20 consists of Florida prestressed concrete beams supported on concrete end bents, utilizing square prestressed concrete piles. Replacement bridge at Natural Bridge Road consists of concrete flat slab bridge supported on concrete bents, utilizing concrete drilled shafts.

Lead Structural Design Engineer responsible for:

- Overseeing design of bridge replacements

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
University of Kentucky, 2000

Masters of Science in Civil Engineering,
University of Kentucky, 2001

Professional Registration:

Professional Engineer: KY #23970

Professional Engineer: NC #036458

Professional Engineer: FL #62803

Professional Engineer: UT #2233712-2202

Professional Organizations:

American Society of Civil Engineers

Kentucky Society of Professional Engineers

Certifications:

Project Management Professional

Areas of Expertise:

- Project Management
- Cost Estimates and Specifications
- Design Study Reports
- Maintenance of Traffic Plans
- Bridge Design
- Bridge Inspection and Rating
- Large Box Culvert Design
- Noise Wall Design
- Pedestrian Overpass Design
- Retaining Wall Design
- Structural Design

Doug Hershey, PE

Structural Design Engineer

Mr. Doug Hershey, PE, is a Structural Engineer. He joined Lochner in 2005, bringing with him five years' prior structural engineering experience within the transportation industry. Mr. Hershey has worked on structural design projects in Florida, Ohio, and Utah. His bridge engineering experience encompasses substructure and superstructure design for a wide variety of highway bridges: curved steel box girder, steel plate girder, prestressed concrete beam, spliced post-tension concrete beam, and concrete flat slab structures, as well as box culverts. Mr. Hershey also has design experience in Accelerated Bridge Construction (ABC), including Self-Propelled Modular Transport (SPMT) techniques. Notably, he was part of the engineering team for the ABC and SPMT design of two I-80 bridges in Salt Lake County, Utah. In addition to bridge structures, Mr. Hershey has designed retaining walls, sign structures, mast arms, and strain poles. Mr. Hershey has field experience in bridge inspection. He has also calculated load ratings for numerous bridges and box culverts. He is proficient in the use of a wide range of engineering software, such as MicroStation, MathCAD, STAAD, Conspan, RC-Pier, CONSPLICE, MDX, and BARS-PC.

Project Experience

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Engineer responsible for:

- LRFR load rating of the 3-span spliced post-tensioned main span using CONSPLICE.

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Lead Structural Design Engineer responsible for:

- Designing & load rating two 3-span cast-in-place flat slab bridge superstructures
- Checking the design of the end bents and intermediate bents
- Plan production and coordination of CADD staff
- Designing nine mast arms (5 standard & 4 non-standard)
- Engineer-of-Record for twin single span prestressed AASHTO girder bridges over CSX Railroad with approximate spans lengths of 94 feet and twin reinforced concrete flat slab bridges over Gum Creek consisting of three 30 foot spans.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Lead Structural Design Engineer/EOR responsible for:

- Designing steel strain poles at the intersection of SR44 and Highview Avenue in Citrus County, FL.

Haines Road (CR 691) from US Hwy. 19 to I-275, Clearwater, FL, Pinellas County Department of Public Works, This project entailed reconstruction and rehabilitation of 1.6 miles of urban roadway. Work included addition of new sidewalks, curb and gutter and a close drainage system, Pinellas County Department of Public Works, Lealman, Florida.

Lead Structural Design Engineer/EOR responsible for:

- Designing mast arm structures at 54th Avenue North / 28th Street North intersection, providing bus bench pad and gable shelter details.

Roosevelt Boulevard/CR 296/ I-275 Connector, Clearwater, FL, Florida Department of Transportation-District 7, Design two of the six phases planned for CR 296, a major new limited access connector to I-275 in Pinellas County. This project addressed Phase 2, which will extend CR 296 to the west to the vicinity of 40th Street, and Phase 3, which will connect CR 296 with Roosevelt Bld. across I-275, and provide a northbound to westbound connection between the interstate and CR 296.

Structural Design Engineer responsible for:

- Checking the beam and diaphragm design, load rating, and pier design and design of the end bents.

Years of Experience:

11

Education:

Masters of Science in Civil Engineering (Structural Emphasis),

University of Toledo, 2001

Bachelor of Science in Civil Engineering,

University of Toledo, 2000

Professional Registration:

Professional Engineer: FL #63325

Professional Engineer: OH #69633

Professional Engineer: UT #7437470

Areas of Expertise:

- Bridge Design and Load Rating
- Steel Box and Steel Plate Girder Design
- Prestressed Concrete Girder Design
- Spliced, Post-Tensioned Concrete Girder Design
- Overhead and Cantilever Sign Structure Design
- Mast Arm Design
- Strain Pole Design
- Retaining Wall Design
- Shop Drawing Review



**James E. Melcher, P.S.M.
Project Surveyor**

Nobles Consulting Group, Inc.
2844 Pablo Avenue
Tallahassee, Florida 32308
Phone: (850) 385-1179

January 1997 to present

Registrations:

Florida No. 6159

Education:

B.S. Geography
Florida State University
1992

**Professional
Affiliations:**

Florida Surveying &
Mapping Society (FSMS)

Summary of Qualifications:

Mr. Melcher has over fifteen years of experience in survey data processing and right of way mapping. As a survey project manager in NCG's Tallahassee office, he is responsible for the preparation and review of right of way maps, title searches, legal descriptions, field data and control surveys for FDOT projects. Mr. Melcher has an extensive background in the primary analysis of field data and is very proficient in CAiCE, Microstation and AutoCad formats. He also serves as designer/CADD Technician for highway and bridge design projects at NCG.

Project Experience:

Capital Cascades Trail Segments 3 and 4, Tallahassee, Florida. Provided topographic survey for design of multimodal trail segments along 4 miles of Tallahassee's major drainage feature. Project included establishment of horizontal and vertical control points and a referenced project baseline for tie in with other City of Tallahassee projects. A complete 3-D topographic survey of the St. Augustine Branch and Central Drainage Ditch was completed. Detailed surveys of 21 existing drainage structures / bridges along the corridor were undertaken. Several offsite parcels for pond / wetland creation were located. A utility survey and several tree surveys were also scoped.

FP 222589, 222590, 222593 SR 8 (I-10) from Rest Areas to East of SR 261 (Capital Circle NE) Leon County, Florida. Provided full 3D design survey of I-10 corridor, 3 major interchanges and side streets for the widening of I-10 to six lanes. Some R/W acquisition was involved. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety concerns. Approximately 13.5 miles of corridor.

SR263 (Capital Circle NW) from S of SR 10 (US 90) to SR 8 (Interstate 10), Leon County, Florida (FP 2197221). Provided full 3D design and Right of Way Control Survey for in-house design by District 3. The 2.2 mile project consisted of a 300 foot wide swath including the existing right of way of SR 263 for widening from 2 lanes to 6 lanes with a transition area at both north and south ends. Additional work consisted of the stakeout and monumentation of newly acquired right of way.



SR 369 (U.S. 319) from East Ivan Road to the Leon County Line Wakulla County, Florida (FP 2204951). Provided full 3D design survey and Right of Way Control Survey for multilane reconstruction and property acquisition for a 5.7 mile corridor. Included preparation of Right of Way Control Survey maps and Formal Jurisdictional Wetland Determination Maps.

SR 10 (US 90 / West Tennessee Street) from SR 263 to Ocala Road, Leon County, Florida (FP 4063331). Full 3D design survey for 3-R project including major median work and drainage redesign at CSX RR overpass within a 3.3 mile urban project. Additional survey services included preparation of Right of Way

Gaines Street Realignment from Jackson Bluff Road to Monroe Street (SR 63 / US 27) (FP 2197701). Control for LAMP project and conventional topography for SR 371 in Leon County, control survey and R/W mapping.

SR 83 (US 331) from Choctawhatchee Bay Bridge to 0.5 Mi. S of Freeport Walton County, Florida (FP 2206791). Full 3D Design and Right of Way Control Survey for road widening and property acquisition including preparation of Right of Way Control maps and TIITF easements for approximately 3.3 miles of corridor.

SR 85 (Eglin Parkway) from Richbough Avenue in Shalimar to Wolverine Avenue in Valparaiso, Okaloosa County, Florida (FP 4063271). Full 3D design survey for milling and resurfacing / roadway improvements for 8.06 miles of multilane highway. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety.

SR 20 (US 27 / Apalachee Parkway) from SR 261 to the Jefferson County Line, Leon County, Florida (FP 4090251). Full 2D / partial 3D design survey for 9.39 miles of multilane corridor roadway improvements.



2734 Capital Circle NE, Florida 32308
Phone: 850/385-1133
Fax: 850/385-1236
Website: www.dddsinc.com

PROFESSIONAL RECORD

Jason D. Hill, PSM
Survey Project Manager

Jason Hill has 23 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 16 years. His experience encompasses: design surveys; right-of-way surveys; horizontal and vertical control surveys, topographic surveys; including utilization of electronic field book; jurisdictional delineation; and geodetic and construction surveying. As a Project Manager he has the responsibility of managing multiple projects, ensuring detailed attention and quality assurance to each one. His duties include: client contact; scheduling, manpower allocation; quality control and project budgets. Mr. Hill has worked with various city and county governments, the Florida Department of Transportation, and a variety of private sector clients.

KEY PROJECTS

FDOT 3 SR 61/US 319 (Leon) 4246091 from Timberwolf Crossing to the Georgia State Line: Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, 2011, Woolpert, Tallahassee, FL: Mr. Hill is the Project Manager for this project which consists of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR.

FDOT 3 Bellview & Bauer Bridge in Escambia County: Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 CR10 US 90 (Walton) 4246131 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

FDOT 3 SR20 (Leon County) 423067-1 Jason is the Project Manager for this project for which 3DS is providing surveying services for the 3R project These services included typical 3R cross-section and data collection of utilities, drainage and 2D planimetrics

FDOT 3 SR30A (Bay County) 219312-1 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 3D topographic survey.

City of Tallahassee/Blueprint 2000 Capital Circle NW/SW: Mr. Hill provided surveying services for the full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Holmes 4252772 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Walton 4252771 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 SR 291 (Escambia) 4153781 Jason was the Project Manager for this project which included boundary location for the preparation of a control survey.

PROFESSIONAL ACHIEVEMENTS

Professional Surveyor and Mapper, State of Florida, Certification No. 6008

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Myron L. Hayden, Ph.D., P.E. **Geotechnical Engineering**

Professional Credentials:

Bachelor of Science, Civil Engineering, Tri-State University, 1974
Master of Science, Civil Engineering, Oklahoma State University, 1975
Doctor of Philosophy, Civil Engineering, Oklahoma State University, 1978
Professional Engineer in Florida
General Contractor in Florida

Professional Organizations:

American Society of Civil Engineers - Vice-President of North Florida Region - President of Tallahassee Chapter - Engineer of the Year
Florida Engineering Society - Vice-President of North Florida Region - Past President of Big Bend Chapter - Elected Fellow - Engineer of the Year
American Society of Transportation Engineers
American Public Works Association
National Society of Professional Engineers
Transportation Research Board (National Academy of Sciences) - Former National Committee Chairman

Special Qualifications:

- Over 30 years of Geotechnical design and investigation experience including roadway studies, bridge designs, and groundwater control
- Highly-skilled consensus builder on controversial projects
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 18; Years Experience with Other Firms: 16

Relevant Experience:

Districtwide Miscellaneous Geotechnical Consultant to the Florida Department of Transportation, District 3, Chipley, FL – Provides miscellaneous services to the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

SR 79, Washington County, FDOT District 3, Holmes and Washington County, FL (FDOT FPN 220773-32-01, Sections 3, 5, 6, 7 and 8) – Conducted the geotechnical investigation for five (5) sections of the SR 79 reconstruction and widening project in Washington and Holmes County, Florida. The geotechnical design for the roadway included asphalt coring, parameters for pavement design, analysis for culvert extensions, and recommendations for swale exemptions and stormwater ponds. Also included in the project was the bridge and embankment design for the SR 79 bridge replacement over Holmes Creek and the bridge replacement over Reedy Branch Creek.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Thomas H. Hayden, P.E. Geotechnical Engineering

Professional Credentials:

Bachelor of Science, Civil Engineering, University of South Florida, 2003
Professional Engineer in Florida

Professional Organizations:

American Society of Civil Engineers – 2008 President Tallahassee Chapter – 2008-2010 FAMU/FSU College of Engineering Student Chapter Liaison – 2009 Young Engineer of the Year
Florida Engineering Society – 2008-2009 K-12 Education Committee - 2006-2008 Math Counts Committee – 2009 Florida Engineering Leadership Institute Graduate
Geotechnical Materials Engineers Council

Special Qualifications:

- Over 10 years of Geotechnical design and investigation experience, including roadway studies, stormwater design, pavement design, and materials engineering
- Familiarity of FDOT Geotechnical Standards
- CTQP/ACI Certifications: Aggregate Field and Laboratory Testing Technician, Asphalt Plant Technician – Levels I and II, Field Sampler Technician, LBR Technician, Concrete Field Technician – Levels I and II, Concrete Laboratory Technician – Level 1, Quality Control Manager, Concrete Transportation Construction Inspection, Advanced Maintenance of Traffic Inspector and FDEP Erosion Control Inspector

Years Experience with EGS: 7; Years experience with other firms: 3

Relevant Experience:

GPI Southeast, Inc., Proposed Longleaf Development, Stormwater Treatment Facilities, Wakulla County, FL – Performed subsurface investigation of the proposed Longleaf Development. Provided client with subsurface conditions, encountered groundwater and estimated “normal” seasonal high groundwater, design infiltration rates, and anticipated construction considerations.

Carollo Engineers, Lake Bradford Road Wastewater Treatment Facility, Tallahassee, FL – Performed subsurface investigation of the proposed roadway and parking improvements at the Lake Bradford Wastewater Treatment Facility. Provided the client with design and reuse recommendations for each material STRATA encountered throughout project.

Florida Department of Transportation, District 3, SR 97 Pavement Core and Condition Survey, Escambia County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 97 in Escambia County, Florida. Provided the District with the types of pavement failure encountered, anticipated construction considerations, and design recommendations.

Florida Department of Transportation District 3, SR 61 Pavement Condition Survey and Design, Leon County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 61 (North Monroe Street) at the proposed Lake Jackson Eco-Passage. Provided the client with compaction characteristics of the existing embankment material as well as design recommendations for the proposed pavement.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC

Derwood C. Sheppard, P.E. Engineer

Professional Credentials:

Bachelor of Science, Civil Engineering, Florida State University, 2004
Professional Engineer - Florida

Professional Organizations:

American Society of Civil Engineers, Big Bend Chapter, Florida Engineering Society

Special Qualifications:

- Geotechnical design and investigation experience, including roadway studies, bridge designs, and stormwater management
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 7

Relevant Experience:

District-wide Miscellaneous Geotechnical Consultant to the FDOT, District 3 – Assisted with the design of various transportation related projects for the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

Miscellaneous Scour Geotechnical Studies for Scour Protection, FDOT District 3 – Assisted with the geotechnical studies for the design of bridge protection and scour countermeasures. The countermeasures included crutch bents, riprap abutment protection, fender systems, stabilization of causeways, riprap blankets, and sheet pile walls. Typical examples of projects include SR 30 over Pensacola Bay, SR 10 over Black Water River, SR 30 over Choctawhatchee River, SR 30 over Ochlocknee Bay, SR 8 (I-10) over Little River. The services included conducting a file search and evaluation of past geotechnical investigations, pile driving records, and field notes. Services also included Post Design services to assist with constructability questions.

SR 30 (US 98) over the St. Marks River Bridge Replacement, FDOT District 3, Wakulla County, FL (FDOT FPN 220499-1-52-01) - Assisted with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to the bridge replacement roadway upgrades and widening, muck studies and temporary construction methods were investigated and designed.

SR 79 over Holmes Creek Bridge Replacement – FDOT District 3, Holmes County, FL (FDOT FPN 407167-1-52-01) – Duties included assisting with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to drilled shafts, because of the deep scour at the channel locations, a complex foundation consisting of both drilled shafts and pipe piles was needed to address the constructability issues because of the deep scour known to exist. In addition, non-traditional scour countermeasures were required for the abutments to reduce the potential scour and ensure the bridge abutments would be stable during typical storm surges.



HSA Consulting Group

MICHAEL L. CLELAND, AICP, PTP
TRANSPORTATION MANAGER

Education: Master of Public Administration, University of West Florida
Bachelor of Science in Natural Resources, Ball State University
Member, American Institute of Certified Planners
Member, American Planning Association (APA)

Continuing Education Courses

FDOT Site Impact Workshop
FDOT Design Traffic Workshop
Highway Capacity Analysis Workshop/McTrans Center (University of Florida)
Florida Standard Urban Transportation Model Structure (FSUTMS)
FDOT Level of Service Short Course
FDOT Access Management, Location, and Design Workshop

Summary of Qualifications

Mr. Cleland has over twenty years experience in transportation planning in both the public and private sectors. His experience includes transportation planning and traffic analysis, transit planning, and comprehensive planning. For three years of post-graduate employment prior to joining HSA in 1991, Mr. Cleland served on the staff of three MPO's in northwest Florida, and for one additional year he was a Planner for Baskerville Donovan Engineers in Pensacola. He has extensive experience managing large-scale data collection projects for the Florida Department of Transportation, particularly for traffic and roadway data.

Mr. Cleland has had production management and coordination responsibility on HSA's traffic data collection and analysis programs since joining the firm in 1991. His experience includes managing large scale, multi-years traffic counting inventory programs for the FL Department of Transportation at the Districtwide and Statewide levels. His expertise in traffic forecasting and level of service analysis is well known throughout the State of Florida, as well as his knowledge of traffic operations studies and techniques, including No Passing Zone Studies, Origin and Destination Studies, and detailed Arterial Capacity Analysis consistent with FDOT procedures. In recent years, Mr. Cleland has directed the field operations of multiple No Passing Zone Studies for 3R Design projects throughout the 16-county area of District Three.

Related Project Experience

Districtwide Annual Traffic Counting Program - 1992, 1996 – 2003 - Mr. Cleland served as Project Manager for three multi-year, multi-task work order contracts for conducting annual inventory of traffic counts for FDOT District III, including management of sub-consultants. Services consisted of conducting annual volume and classification traffic counts throughout the 16-county area of District Three. Up to 2000 urban and rural 24- and 48-hour volume and classification counts were conducted each year. HSA also provided planning support services such as Design Traffic Reports.

Selected No Passing Zone Studies

Mr. Cleland has led the field data collection and analysis efforts for multiple No Passing Zone Studies in recent years, particularly for Resurfacing projects throughout FDOT District Three. Examples include the following:

- CR 368 (Liberty / Wakulla Counties) from CR 67 to CR 375 – 3.951 miles
- SR 89 (Santa Rosa County) from CR 178 to Jay City Limits – 7.442 miles
- SR 69 (Jackson County) from SR 10 to SR 71 – 15.577 miles
- SR 71 (Jackson County) from Calhoun County line to Malloy Plaza Rd – 8.786 miles
- SR 20 (Leon County) from Ochlockonee River Bridge to SR 263 – 19.293 miles
- SR 59 (Jefferson County) from SR 20 to Main St – 5.462 miles
- SR 77 (Washington County) from SR 273 to Jackson County line – 2.831 miles
- SR 10 (Walton County) from Country Club Dr to Holmes County line – 6.558 miles



HSA Consulting Group

Michael L. Cleland, AICP, PTP

Escambia County Engineering Department (2004 – present) – Mr. Cleland successfully manages this ongoing traffic data inventory for HSA. On an annual basis, 48-hour speed counts, 48-hour volume counts, 48-hour classification counts, and eight-hour turning movement counts are assigned through multiple Task Work Orders with tightly specified timeframes.

Design Traffic Analysis Reports (DTR's) for the following FDOT roadway projects: SR 390 - Bay County, SR 30 - Santa Rosa County, SR 10 - Escambia County, SR 295 - Escambia County, SR 291 - Escambia County; SR 79 - Bay County, and so on. Mr. Cleland Also reviews and updates the DTR's of other consultants for the District.

Eglin AFB Master Transportation Plan (Sub-Consultant to STV)

Base-wide Traffic Counting Program, 17,000 Employee O&D Study, and Transportation Plan Development

MICHAEL L. CLELAND, AICP, PTP

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Design Traffic Projections for Multiple Alternatives

US98 PD&E Study-Naval Live Oaks to Portside Drive -Traffic Technical Memorandum/Highway Capacity Analysis for Multiple Alternatives

District Three Land Planner /Business Damage Estimate Support for Multiple Contracts since 1995

Mr. Cleland has led efforts throughout the District which involved developing site inventory data collection plans, access management assessments, driveway and drive-through window queuing analysis, parking demand/ turnover studies.

Seasonal Factors Study – This study reviewed the components of all seasonal factor categories utilized in District 3 and recommended changes to the composition and application of the categories.

Santa Rosa Island Authority (November 2004 – present) – Mr. Cleland provides management and oversight of the continuous volume counts for the entering lanes at the Bob Sikes Bridge toll booth. There are two to four entering lanes open at any given time. Data is downloaded weekly and submitted to the Island Authority. The counters and tubes are monitored and replaced on a regular basis.

Miscellaneous Engineering Firms – HSA collects traffic data for site impact studies, PD&E studies, and Design Traffic development for multiple transportation engineering firms throughout the region on an as-needed basis.

Roadway Characteristics Inventory Consultant - Florida Department of Transportation District III – Mr. Cleland has assisted Ms. Gay Smith in the management of Prime Contracts for RCI since 2000. Mr. Cleland has significant experience with traditional roadway inventory tasks, having managed RCI data entry into IMS, creation of straight line diagrams, and reviewing SLD's created by other consultants.

Hurricane Floyd Evacuation Study - Project completed for the Governor's Hurricane Evacuation Task Force (2000), analyzed TTMS volumes in relation to the hurricane's location at given points in time.

Multi-Modal Corridor Planning Analysis - HSA conducted case studies for two arterials, and analyzed automobile, transit, bicycle, and pedestrian levels of service using innovative analysis methods. The project was conducted for the FDOT Central Office (Systems Planning).

Florida Freight Model - HSA is part of a consultant team developing a statewide computer model for forecasting freight movements. Mr. Cleland compiled data and provided various types of analysis.

Pensacola Urbanized Area Transportation Study (PUATS) 2020 Update (Sub-Consultant) for the Pensacola Metropolitan Planning Organization (MPO). Mr. Cleland developed a database of roadway segments, which included roadway characteristics for number of lanes, level of service, jurisdiction, functional classification, inclusion on the FIHS, etc.



HSA Consulting Group

THOMAS R. BEDELL

Director of Traffic Engineering

Academic Background

- Pratt Institute, Brooklyn, NY - School of Electrical Engineering
- State University at Farmingdale, NY - Computer Science Studies
- Brooklyn Polytechnic Institute - Part-time Studies
- Fellow-Institute of Transportation Engineers
- Member-ITE Urban Traffic Engineers Council
- Member-Florida Section ITE
- Member-Alabama Section ITE
- Member-FSITE Subcommittee on Residential Traffic Control
- Member-Florida Engineering Society
- Professional Engineer-State of New York #56945, issued 9/7/79
- Professional Engineer-State of Florida #28422, issued 10/5/79
- Professional Engineer-State of Alabama #19176, issued 11/30/92
- Professional Traffic Operations Engineer (PTOE) Certification, Issued 2/99

Professional Experience

As Director of Traffic Engineering for HSA since 2000, Mr. Bedell is responsible for engineering analysis, plan documents, and engineering drawings for traffic signalization including installation of loop detection systems. As part of his work design and construction inspection of TTMS and PTMS sites are included. Recent projects for which he has provided QA/QC and project oversight for HSA include:

Statewide General Traffic Consultant Contract – Sub-Consultant to F.R. Aleman

Mr. Bedell provided project oversight for the inventory, inspection, repair and upgrade of telemetered traffic monitoring sites throughout FDOT District Three. He was responsible for the production and quality oversight for HSA on this contract. As a result, he developed solid working relationships with F.R. Aleman staff in this endeavor.

Statewide General TranStat Consultant Contract – Sub-Consultant to Marlin Engineering

Mr. currently provides oversight and quality control for inventory, inspection and repair of telemetered traffic monitoring sites throughout FDOT District Three and assists with sites in District Two as needed.

Districtwide Miscellaneous Counts and Projections, Florida Department of Transportation District 3 (1996 - 2003). Mr. Bedell provided project oversight for HSA on the volume and vehicle classification counts throughout the District (16 counties) for the annual traffic count inventory. Included were completion of counts for Urbanized Area Long-Range Plan Updates, and data collection for numerous Design Traffic Reports.

Miscellaneous Traffic Volume and Intersection Turning Movement Counts for Project Development Studies and Design Projects for HDR, PBS&J, Kimley Horn, Hatch Mott MacDonald, DRMP and so on.

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Projections

US98 PD&E Study – Naval Live Oaks to Portside Drive – Traffic Technical Memorandum/Highway Capacity Analysis

As Senior Traffic Engineer for the City of Pensacola from 1980 to 2000, Mr. Bedell completed the following:

- Developed procedures for identifying and analyzing high accident locations and established a continuing traffic count program for the City of Pensacola Florida.



HSA Consulting Group

THOMAS R. BEDELL,
P.E., PTOE

- Design, construction supervision and programming of signal system consisting of 48 intersections. SOAP and Passer II were used for critical intersection and arterial analysis
- TRANSYT 7, through leased time at the University of West Florida, were used for network simulation & optimization. This work was completed with TRANSYT 7F upon its release.
- Technical review of the feasibility study for the Areawide Escambia County Traffic Signal System which will include approximately 120 signals in Escambia County and the City of Pensacola.
- Technical coordination with the Florida Department of Transportation and JHK & Associates in the design and implementation of an Areawide closed loop traffic signal system to include approximately 130 signals in the City of Pensacola and Escambia County.
- Project Manager for five highway safety sub grants which included a microcomputer package, microcomputer enhancement package, traffic counters, a thermoplastic application system, and a video logging system for a sign inventory. The sign inventory entails the video logging of the city's approximately 8300 traffic signs. This data contains type, location, and condition and is entered into a computer database, using dBase 3+, for historical information and establishment of a maintenance replacement program.
- CBD Signal Timing Study in Pensacola, FL
- Cervantes Street Study under the GASCAP Program of the University of Florida-1986, Pensacola, FL
- 12th Avenue Signal Timing Study-1988
- Cervantes Street Closed Loop Signal System Design in Pensacola, FL -1992
- 12th Avenue Closed Loop Signal System Design in Pensacola, FL -1987
- Signing, Pavement Markings, Channelization; Palafox Street Re-construction in Pensacola, FL
- Cervantes & Perry Signal Design in Pensacola, FL -1986
- Barrancas & Main Street Signal Design in Pensacola, FL -1987
- Palafox Street Signal Reconstruction in Pensacola, FL -1992
-

As City Traffic Engineer for the City of Pensacola, Mr. Bedell was directly responsible for the design, installation, and maintenance of sub-systems of the Pensacola Computerized Traffic Signal System. Such activities included design and maintenance of the 12th Avenue sub-system including coordination equipment, interconnection cable and system sensors. The system sensors provide real-time traffic data for timing plan selection and produced an on-going historical database. The database was used to produce AADT, D, K and PHF's.

Other Project Experience

- Wal-Mart Signal Design in Escambia County - 1993
- Creighton Road Signal Timing Study in Escambia County - 1995
- US 98 & Hutchinson Signal Design in Destin - 1995
- US 29 Signal Timing Study in Escambia County - 1997
- Signal System Feasibility Study in Foley, AL - 1997
- Chiefs' Way Signal System Analysis and Design in Pensacola - 1998
- US 98 Traffic Analysis in Gulf Breeze - 1998
- SR 79 Signal Design in Panama City - 1999
- Davis Highway Design, Segment 1 and Segment 2 - Intersection Engineering Analysis
- Nine Mile Road Design - Intersection Engineering Analysis

As Assistant Civil Engineer for the New York State Department of Transportation for 18 years, Mr. Bedell's experience included the following:

- Design of signals and signal systems and preparation of detailed plans, specifications, and estimates for signal and sign work included in construction projects.
- Calculating and refining signal timing settings
- Signal design and field layout for signal installations and modifications completed by State forces.
- As Engineer-in-charge of traffic signal operations, assumed responsibility for installation, modification, timing, and maintenance of approximately 725 traffic signals under the jurisdiction of the N.Y.S.D.O.T.
- Completed intersection analysis and design including application of traffic engineering principles for sophisticated signal systems (e.g. the computerized digital Sunrise Highway signal system)

Commitment to Minority/Women Business Enterprises

For assignments that require professional services beyond the capability of our local staff, such survey, geotechnical, and traffic data collection, we will utilize local

Minority/Women Business Enterprises to fulfill Leon County's M/WBE participation goals. **Lochner** is committed to utilizing local small and minority businesses on our projects. In 2009 we received the FICE/FDOT DBE Utilization Award for being the #1 Engineering Firm in the State for DBE Utilization. Our current average DBE utilization rate on State projects exceeds 13 percent.



Diversified Design and Drafting Services (3DS), Environmental and Geotechnical Specialists (EGS), and Hamilton Smith and Associates (HSA), all certified M/WBE firms, will serve as subconsultants as needed on assignments under this contract. We have a long and successful work history with each of these firms.

B. Experience with Projects of a Similar Type and Size

The **Lochner Team** offers Leon County a strong local presence, a history of successful projects, and expertise in providing the services requested under this contract. The following projects demonstrate our recent project experience and qualifications in the Work Categories of Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, and Structural Engineering.

Sidewalk Improvement Projects (Group B-4)

Tallahassee, Florida

Firm Responsibility:

Stormwater Engineering, Roadway Design

Project Description:

Provided sidewalk construction plans for sections of Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets in Tallahassee. Major work efforts included sidewalk design, drainage design, utility coordination, and permitting.

Project Owner:

City of Tallahassee
300 South Adams Street
Tallahassee, Florida 32301

Project Contact:

Mr. Bill Woolery, PE
Project Manager
850.891.8471

Completion Date:

April 2011

Project Team:

David Freni, PE – Project Manager and EOR
Tony Alex, PE – Lead Roadway Engineer
Scott Simmons, EI – Roadway Engineer
Nick Lawrence, PE – Lead Drainage Engineer

Providence Community Roadway Projects (Group N & Q)

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering

Project Description: Provided Preliminary Engineering Study, Design Services, and Post Design Services for street and drainage improvements to Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets in the Providence Neighborhood of Tallahassee. Major work efforts included roadway design, signing and marking design, drainage design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: City of Tallahassee
300 South Adams Street
Tallahassee, Florida 32301

Project Contact: Mr. Bill Woolery, PE
Project Manager
850.891.8471

Completion Date: February 2011

Project Team: Michael Woodard, PE – Project Manager and EOR
Tony Alex, PE - Lead Roadway Engineer
Scott Simmons, EI – Roadway Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

Capital Circle NW/SW Widening

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of Capital Circle from Orange Avenue to US 90 (Tennessee Street) in Tallahassee. Major design work efforts included roadway design, drainage design, bridge design, signing and marking design, signal design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: Blueprint 2000
2727 Apalachee Parkway, Suite 200
Tallahassee, Florida 32301

Project Contact: Mrs. Latesa Turner, PE
Project Manager
850.219.1060

Completion Date: June 2011

Project Team: Hugh Williams, PE – Project Manager and EOR
Michael Woodard, PE – Lead Roadway Engineer
Natalie Zierden, PE – Lead Drainage Engineer
Doug Hershey, PE – Lead Structural Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

Natural Bridge Road Bridge Replacement Project

Leon County, Florida

Firm Responsibility:

Project Description:

Stormwater Engineering, Roadway Design, Structural Engineering
Provided Design Services for replacement of bridge on Natural Bridge Road over a branch of St. Marks River. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner:

FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact:

Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date:

July 2011

Project Team:

Michael Woodard, PE	Project Manager and EOR
Tony Alex, PE	Lead Roadway Engineer
Natalie Zierden, PE	Lead Drainage Engineer
Chuck Craycraft, PE	Lead Structural Engineer

SR 20 over Gum Creek Bridge Replacement Project

Tallahassee, Florida

Firm Responsibility:

Project Description:

Stormwater Engineering, Roadway Design, Structural Engineering
Provided Design Services for replacement of bridge on SR 20 over Gum Creek in Tallahassee. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner:

FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact:

Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date:

July 2011

Project Team:

Michael Woodard, PE	Project Manager and EOR
Tony Alex, PE	Lead Roadway Engineer
Natalie Zierden, PE	Lead Drainage Engineer
Chuck Craycraft, PE	Lead Structural Engineer

SR 61 (US 319) Thomasville Road Resurfacing Project

Leon County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided Design Services for resurfacing, restoration, and rehabilitation of four-lane divided Thomasville Road from Chiles High School to Georgia line in Leon County. Major work efforts included roadway design, drainage design, bridge culvert design, traffic analysis, signing and marking design, utility coordination, and permitting.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date: December 2010

Project Team: David Freni, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

SR 83 (US 331) Widening Project

Walton County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for four-lane widening of US 331 from US 98 to the Choctawhatchee Bridge in Walton County. Major design work efforts included roadway design, drainage design, signal and signal structure design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Dean Mitchell, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: December 2009

Project Team: Hugh Williams, PE Project Manager
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Ryan Huebschman, PE Traffic Engineer

SR 85 at SR 123 Widening and New Interchange Project

Okaloosa County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of SR 85, four-lane widening of SR 123, and new grade separated interchange adjacent to NW Florida Regional Airport on Eglin AFB. Major design work efforts included roadway design, drainage design, signal and signal structure design, bridge design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mrs. Noelle Warren, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: March 2009

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

CR 388 (West Bay Parkway) PD&E Study, Segment 2

Bay County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and preliminary Design Services for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridge structures at three locations. Major design work efforts included preliminary roadway design, drainage design, intersection design, bridge design, signing and marking design, utility coordination, permitting coordination, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Brandon Bruner, PE
Project Manager
850.638.0250

Completion Date: June 2011 (PD&E Study); Design is on-going

Project Team: Hugh Williams, PE Project Manager and EOR
David Freni, PE Sr. Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer

C. Willingness to Meet Schedule and Budget Requirements

Working Efficiently

The **Lochner Team** is aware of the fiscal challenges that Leon County is currently facing and our approach to this contract will be to deliver solutions that maximize your investment on each assignment. We understand the importance of providing the most benefit for the taxpayers' dollars. One way we achieve this is through the use of senior staff to direct the heart of an assignment, and to provide quality control and quality assurance services, while junior, yet fully-capable, staff are used for the hour-to-hour production. This balancing of staff provides the best product at the lowest cost to you.

Communicating Effectively

The **Lochner Team** is committed to meeting your needs in a professional and timely manner while delivering high quality products on time and within budget. We will approach each assignment as a unique project with the understanding that creative solutions and designs are often necessary to make a project successful. As such, we recommend that a kick-off meeting be held for each assignment, with key project team members from the County, the **Lochner Team**, and other interested stakeholders present to identify project constraints, goals, and expectations. During the kick-off meeting, typical agenda items will include:

- Introduction of project team members, roles, and responsibilities
- Identification of project goals, concerns, and special constraints
- Review of budget and funding sources
- Review of schedule and critical milestones
- Discussion of creative alternatives, if needed

In addition to kick-off meetings, we propose to have milestone or phase review meetings, as needed, and we will always maintain open lines of communication with and coordinate with the appropriate County staff and other team members to ensure projects stay on track.

Maintaining High Quality

A good quality control plan must be adhered to even more so on the short duration task assignments under this contract than with other longer duration design contracts. The reason for this is because there is less time and fewer opportunities to find and correct mistakes. When schedules are compressed and phase submittals are omitted, it becomes even more imperative to follow the quality control plan. **Lochner** has a quality control program that has been tested and proven to be very dependable for many years and this is reflected by the high grades and re-selections we consistently receive from our clients on other design contracts. Avoiding errors and omissions saves everyone time and money.

D. Effect of Firm's Recent, Current, and Projected Workload

Our key staff members currently have an overall availability of more than 50% through October 2011 and 50-75% availability for the remainder of 2011. We are ready and willing to respond to any task assignment under this contract. You call us and we are there!

The following list gives details of the active design projects being managed from our Tallahassee Office.

Capital Circle NW/SW Widening

Project Manager: Hugh Williams
Estimated Completion Date: June 2011

Lonnbladh Road Stormwater Treatment Facility

Project Manager: Natalie Zierden
Estimated Completion Date: April 2011

Tallahassee Sidewalks, Group B-4

Project Manager: Tony Alex
Estimated Completion Date: April 2011

SR 20 Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: June 2011

Natural Bridge Rd Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: August 2011

CR 388 PD&E Study, Segment 1

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

Starke Bypass New Alignment

Project Manager: Hugh Williams
Estimated Completion Date: November 2011

US 17 Widening

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

E. Effect of Project Team Location

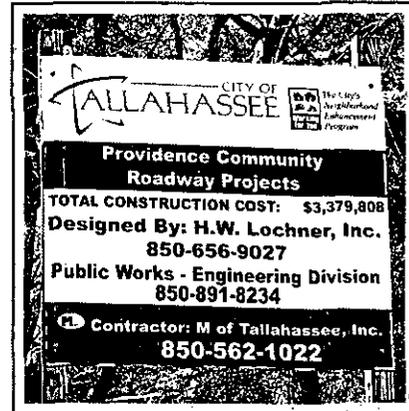
Lochner has maintained an office in Tallahassee since 1998. We are located just two miles from the Leon County Public Works Department and three miles from the Leon County Commission Chambers, which provides convenient access and minimal notice to attend meetings at either location.

With our project manager (David Freni, PE), a full roadway and drainage design group, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

We currently have 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering.

F. Approach to the Project

Upon receiving notice of a planned work order, David will be the first to thoroughly discuss the project objectives with the County's project manager. David and other members of the **Lochner Team**, as needed, will then conduct a cursory review of the project limits and prepare a scope, fee, and schedule for the proposed work to ensure that we all have the same understanding of the project's objectives and constraints. Depending upon the scope and work mix of these assignments, the **Lochner Team** is capable of assigning up to six teams to work on projects under this contract at any one time. David has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.



Our approach to every project is simple. We will help you achieve your goals by:

- Responding Immediately
- Working Efficiently
- Communicating Effectively
- Maintaining High Quality



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Traffic and Intersection Engineering

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A. Ability of Professional Personnel

People Resources

Lochner currently has 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering. With our project manager (David Freni, PE), a roadway design group and drainage design group capable of performing the full range of services within these disciplines, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

All Roadway Design and Stormwater Engineering services will be provided by our Tallahassee office staff. Some Traffic and Intersection Engineering services will be supported by our Clearwater office, particularly by way of providing traffic analysis, signal design, and lighting design. All Structural Engineering services will be supported by our Clearwater and Lexington offices.

As you will see in the staff resumes and statements of project experience that follow, our proposed **Lochner Team** has a vast amount of experience working together successfully on projects here in Leon County. Our team is organized to be responsive to the needs of Leon County by providing the resources necessary to address all of the work assignments anticipated under this contract.

Additionally, depending upon the scope and work mix of the assignments, we are capable of assigning up to six teams to work on projects under this contract at any one time. Ultimately, our project manager, David Freni, has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.

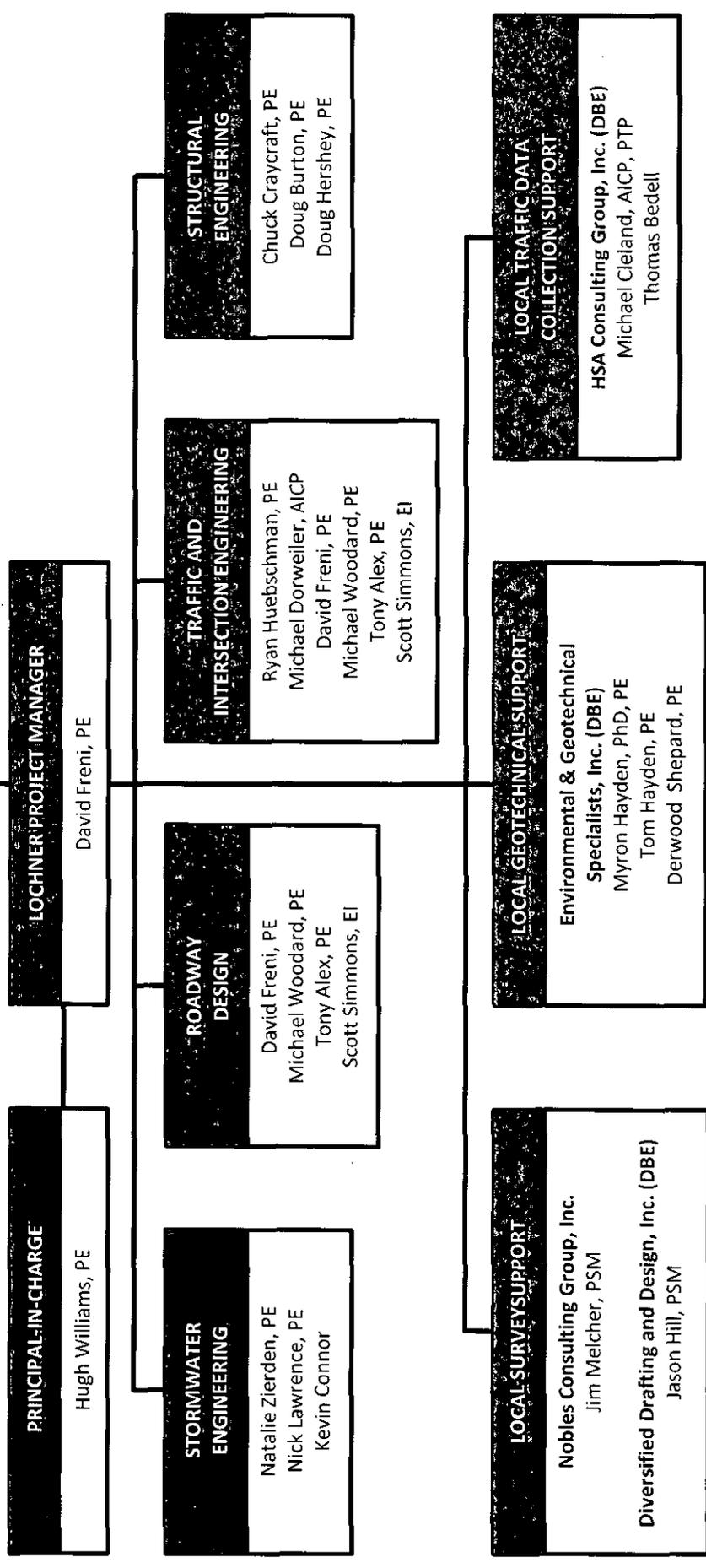
Technical Resources

In the 1960s **Lochner** developed early engineering software with applications for highway geometry, drainage, earthwork, and bridge design. One of the first comprehensive highway design software systems called HDPS was developed by **Lochner**. HDPS was endorsed by FHWA and many state DOTs.

Today **Lochner** has extensive experience in developing and implementing production and design programs for various governmental agencies. We utilize the latest and greatest design programs and equipment to efficiently provide our clients with high quality products. Our primary roadway design software is Microstation and AutoCadd, making use of the most current FDOT Site Menus; For drainage and stormwater modeling we use Geopak Drainage, ASAD, HECRAS, ICPR, and Hydraflow; For bridge design we use Conspan, RC-Pier, MDX, STAAD, FB-Multiplier, PCA Column, and other FDOT programs that utilize Mathcad. While **Lochner** has already demonstrated its competence in the above software to clients, we understand the need to remain current with new software releases and design techniques as they become available, and commit ourselves to seeking every avenue that will bring a better final product to our clients.

Organizational Chart

Civil Engineering Services
 Continuing Supply
 Proposal Number BC-03-17-11-25



LOCHNER

Hugh Williams, PE

Principal-In-Charge Quality Assurance

Mr. Hugh Williams, PE, is a Senior Project Manager and one of Lochner's Vice Presidents. He joined Lochner in 1986, bringing with him 11 years' prior experience in transportation engineering. Mr. Williams has a broad managerial and roadway engineering background, encompassing both project development and environment (PD&E) studies and final design projects. He has served as Project Manager or Task Leader for projects involving the new construction, reconstruction and/or rehabilitation of urban arterials, rural expressways, interstate highways, interchanges and intersections, railroad facilities, and airport taxiways. Mr. Williams has particular expertise in the development of traffic control and construction staging plans for complex projects in densely populated areas. Mr. Williams is a highly experienced project manager. He has led many high-profile PD&E studies and transportation design projects requiring the coordination, scheduling, and oversight of multi-disciplinary engineering staff and large subconsultant teams. Such projects include the design of improvements to the SR 102/International Airport Boulevard interchange in Jacksonville, Florida, which was named 'Urban Interchange Project of the Year' by the Florida Road Builders Association. He has also led a number of environmentally sensitive projects, notably including the PD&E study for a proposed 24-mile expressway/arterial in Walton and Bay Counties, Florida, predominantly on new alignment, with a high-level bridge over the Intracoastal Waterway.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Project Manager and EOR

SR 83 (US 331) from US 98 to Choctawhatchee Bridge, Walton County, FL, Florida Department of Transportation-District 3, Project Development & Environment Study and Final Design of roadway, drainage, structures, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans for reconstruction of 1.5 miles of existing two-lane rural arterial roadway to a four-lane divided urban arterial roadway.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Project Manager and EOR

Districtwide Miscellaneous Design Drainage Consultant, Florida Department of Transportation-District 3, Provided drainage design and a wide variety of hydrologic and hydraulic services.

Principal-in-Charge

Years of Experience:

36

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1976

Professional Registration:

Professional Engineer: FL #23034

Professional Engineer: TX #TBD

Professional Engineer: GA #032302

Professional Organizations:

Florida Engineering Society

National Society of Professional Engineers

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development
- Construction Phasing Plans
- Design Management
- Design Study Reports
- Environmental Assessments
- Environmental Impact Statements
- Environmental Studies
- Freeway Design
- Government and Agency Coordination
- Hydraulic Design
- Hydrology
- Interchange Design
- Intersection Design
- Local Street Improvements
- Park and Ride Lots
- Parking Lot and Site Layout Design
- Pavement Design
- Project Management
- Public Involvement Plan Development
- Public Private Partnership
- Quality Control and Assurance
- Railroad Crossing Design
- Railroad Design
- Right-of-Way Acquisition
- Roadway Design
- Roadway Widening and Reconstruction
- Roundabout Design
- Rural Highway Design

David Freni, PE Project Manager

Mr. David Freni, PE, is a Senior Highway Design Engineer with civil engineering experience predominantly within the field of transportation. He joined Lochner in 2009.

Mr. Freni has considerable experience – as an engineer and manager – with roadway and drainage design projects, including design-builds. He has led design for the new construction, reconstruction, and/or rehabilitation of city streets, intersections, urban and rural arterials, expressways, interchanges, and multi-use trails. His roadway design expertise includes geometric design, traffic control planning, specification development, environmental permitting, and construction staging. As a Project Manager, he has successfully headed large, multi-disciplinary projects requiring coordination with numerous subconsultant firms. He has worked with clients ranging from state Departments of Transportation to regional economic development alliances to counties, municipalities, and private developers.

In addition to roadway engineering, Mr. Freni has worked in the fields of site development design and geotechnical engineering. His experience in these areas includes soil testing and classification, drilling operations, and geotechnical and environmental site assessments.

Project Experience

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Project Manager and EOR

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Deputy Project Manager and Senior Roadway Engineer

Capital Circle SE, Tallahassee, FL, Blueprint 2000, Design-Build project for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway from Tram Road to Connie Drive, included roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, traffic control, and permitting.

Roadway Design EOR

Years of Experience:

18

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1992

Professional Registration:

Professional Engineer: FL #51367

Professional Organizations:

Florida Engineering Society

Certifications:

Advanced Maintenance of Traffic Qualification
Qualified Stormwater Management Inspector

Areas of Expertise:

- Design Management
- Program Management
- Project Management
- Intersection Design
- Multi-Modal Trail Design
- Permit Coordination
- Quality Control and Assurance
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Urban Arterial Design

Michael Woodard, PE

Senior Roadway Design Engineer

Mr. Michael Woodard, PE, is a Senior Highway Design Engineer and Project Manager. He joined Lochner in 1999, bringing with him 15 years of engineering experience, seven of which were within the transportation industry. He specializes in roadway design.

During his career, Mr. Woodard has worked on dozens of roadway design projects, ranging in size from sidewalk improvements to large, complex interchanges, and encompassing both urban and rural facilities. He has expertise in all aspects of the roadway design process, including horizontal and vertical geometry, intersection reconfiguration, traffic control plans, utility relocation, earthwork computations, cost and quantity estimating, and pavement design. Mr. Woodard also has considerable experience in the design of box culverts and open and closed drainage systems.

Mr. Woodard has held lead design and project management roles on many large transportation projects. Notably, he is the Senior Roadway Engineer for the high-profile Capital Circle reconstruction and widening project in Tallahassee, Florida, which is being completed under design-build delivery. With his wealth of experience, Mr. Woodard is often called upon to perform peer review and quality assurance for roadway and drainage design plans prepared in Lochner offices across the country.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Design Engineer responsible for:

- Designing horizontal and vertical geometry
- Developing roadway plans
- Performing pavement design

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Project Manager and EOR

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Project Manager and EOR

Years of Experience:

18

Education:

Bachelor of Science in Marine Engineering,
U.S. Merchant Marine Academy, 1981
Masters of Science in Civil Engineering,
University of Central Florida, 1992

Professional Registration:

Professional Engineer: FL #47736

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- ADA Requirements
- Alternative Analysis
- Collaboration with Engineering and Construction Teams
- Construction Cost Estimating
- Detention / Retention Pond Design
- Geometric Layout Design
- Geopak
- Interchange Design
- Intersection Reconfiguration Design
- Local Street Improvements
- MicroStation
- Pavement Design
- Project Management
- Public Meeting Participation
- Quality Control and Assurance
- Right-of-Way Acquisition
- Roadway and Highway Design
- Rural Highway Design
- Storm Drain System Design
- Subconsultant Coordination

Tony Alex, PE

Roadway/Traffic Design Engineer

Mr. Tony Alex, PE, is a Highway Design Engineer. He joined Lochner in 2002, bringing with him three years' professional engineering experience. He specializes in roadway design.

Mr. Alex has experience in planning and final design for a variety of roadway projects. His project background encompasses new corridors on new alignment, the reconstruction of multi-lane facilities and interchanges, the widening of rural highways and urban arterials, and city street improvements. He has also worked on project development and environment (PD&E) studies. His expertise includes vertical and horizontal geometric design, quantity and cost estimation, traffic control planning, traffic calming design, natural features inventory, permit application preparation, and storm drain design. Mr. Alex also has experience in GIS data analysis and mapping, intersection analysis, and AutoTURN analysis. He is proficient with MicroStation, GeoPak, and ArcGIS planning and design software and with MS Project, SureTrak, and Primavera project management software.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Design Engineer responsible for:

- Developing sidewalk and traffic control plans

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including traffic control, signing and markings, drainage and permitting

Years of Experience:

12

Education:

Bachelor of Science in Civil Engineering,
University of Calicut, 1995

Masters of Science in Civil Engineering,
University of Alabama, 2003

Diploma in (Post Graduate) Construction
Management,

National Institute of Construction Management and
Research, 1999

Professional Registration:

Professional Engineer: FL #62465

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Construction Phasing Plans
- Cost Estimate Development
- Cost Estimates and Specifications
- Engineering Quantity Take-offs
- GIS Analysis and Mapping
- GIS Data Research, Evaluation and Mapping
- Guardrail and Safety Barrier Design
- Interchange Design
- Local Street Improvements
- Maintenance-of-Traffic Evaluation
- Maintenance-of-Traffic Plans
- Plan Set Assembly
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design
- Stormdrain Design
- Traffic Control Design
- Urban Arterial Design
- Utility Relocation Design

Scott Simmons, EI

Roadway/Traffic Design Engineer

Mr. Scott Simmons is a Highway Design Engineer. He worked with Lochner as an intern from 2001 and became a full-time member of the roadway engineering team in 2004.

Mr. Simmons has been involved in the roadway design process for a number of different facilities, including city streets, rural highways, urban arterials, and large interchanges. He has worked on several projects from the preliminary design stage right through to submittal of construction documentation. His project expertise encompasses the full spectrum of plans production, including horizontal and vertical alignment, cross sections, right-of-way, erosion control, and quantity estimation. He has also prepared numerous signing and pavement marking plans.

Mr. Simmons is proficient with MicroStation and Geopak, and is responsible for making electronic submissions of project deliverables. He has undertaken training in construction estimating, long-range estimating, specifications preparation, and Americans with Disabilities Act (ADA) requirements.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with sidewalk design
- Computation book quantities, and cost estimate

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Roadway Engineer responsible for:

- Assisting with roadway design alternatives and intersection analysis
- Assisting with the Preliminary Engineering Report

Years of Experience:

10

Education:

Associates in of Arts,
Tallahassee Community College, 2001
Bachelor of Science in Civil Engineering,
Florida State University, 2004

Professional Registration:

Engineer In Training: FL #1100010209

Areas of Expertise:

- ADA Requirements
- Cost Estimates and Specifications
- Electronic Delivery and PEDDS Software
- Engineering Estimate Development
- Engineering Quantity Take-offs
- Geopak
- Horizontal and Vertical Alignment Design
- Intersection Design
- MicroStation
- Plan Set Assembly
- Presentation Material Preparation
- Roadway and Highway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design

Natalie Zierden, PE

Senior Drainage Design Engineer

Ms. Zierden joined Lochner in 2010 with experience in drainage design and is thoroughly familiar with the stormwater design and permitting requirements of various environmental agencies and local, state, and federal governments. She is skilled in drainage modeling software including SWMM, StormCAD, POND5 as well as ICPR, WSPRO, UNET, HEC-RAS, ASAD and Hydrain. Ms. Zierden also has a thorough understanding of construction plans and documents, topographic surveys and she is knowledgeable of applicable rules and design codes.

Project Experience

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Lead Drainage Design Engineer responsible for:

- Location Hydraulics Report Preparation
- Pond Siting

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Drainage Design Engineer responsible for:

- Gabion Mattress Design
- Quality Control for Hydraulic Calculations

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Project Manager and Lead Drainage EOR for:

- Stormwater treatment and attenuation
- Floodplain Mitigation Design
- Permit Coordination

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Lead Drainage Design Engineer responsible for:

- Bridge Hydraulics Report Preparation
- No-rise Certification Preparation
- Stormwater treatment design
- Permit Coordination

Years of Experience:

13

Education:

Bachelor of Science in Environmental Engineering,
University of Florida, 1994

Professional Registration:

Professional Engineer: FL #56072

Professional Engineer: GA #28350

Certifications:

Project Management Training

Safety Training

Stormwater Management Inspector Training

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Sewer Line Design
- Stormdrain Design
- Design Management
- Program Management
- Project Management
- Quality Control and Assurance
- Parking Lot and Site Layout Design
- Pavement Design
- Permit Coordination
- Value Engineering
- Site Grading Plans
- Government and Agency Coordination
- Public and Media Outreach Material Development
- Public Involvement Plan Development
- Stakeholder Facilitation and Workshops

Nick Lawrence, PE

Drainage Design Engineer

Mr. Lawrence joined Lochner in April 2010. His previous work experience includes permitting with state and local agencies, involving a range of civil design and specializing in drainage engineering. Permitting experience includes projects in Duval, St. Johns, Leon, Jefferson, and Wakulla counties, as well as with state agencies including SJRWMD, NFWFMD, FDEP, and FDOT.

His experience was acquired with a background in civil site design while gaining exposure to the layout, design, and production of construction documents for residential and commercial developments including utilities, stormwater, and roadways. He has competencies in most all areas of hydrologic and hydraulic design, analysis, and modeling. His extensive stormwater management facility design includes wet and dry detention, retention, and facilities using combinations. He is proficient in techniques of predicting stormwater runoff using SCS and Green-Ampt methodologies. He has had responsibilities for flood studies and large watershed modeling including calibration to recorded measurements and is experienced in hydrologic analysis of rainfall data for continuous simulations for periods of up to five years. His design experience has included soil analyses and classification for purposes of stormwater facility design.

Project Experience

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Designing open stormwater conveyance systems
- Designing floodplain compensation areas
- Environmental permitting

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Developing sediment and erosion control plans
- Drainage documentation
- Environmental permitting

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Drainage Engineer responsible for:

- Developing storm sewer and open ditch conveyance systems
- Drainage documentation
- Environmental permitting

Years of Experience:

5

Education:

Bachelor of Science in Civil Engineering,
Florida State University, 2005

Professional Registration:

Professional Engineer: FL #70818

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Irrigation Coordination and Design
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Scour Analysis
- Sewer Line Design
- Stormdrain Design
- Water Line Design
- Cost Estimates and Specifications
- Drafting
- Engineering Quantity Take-offs
- Parking Lot and Site Layout Design
- Pedestrian Ramp Design
- Phased Construction Plan Design
- Plan Set Assembly
- Roadway Design
- Utility Relocation Design
- ADA Requirements

Kevin Connor

Senior Environmental Manager

Mr. Connor is a Senior Environmental Manager with H. W. Lochner. He has 16 years of experience providing a wide range of environmental and ecological services. His experience encompasses both upland and wetland habitats, and includes wetland delineations and jurisdictional determinations; habitat mapping and value assessments; wildlife surveys and relocations; mitigation design, construction, monitoring, and maintenance; and expert witness testimony. Mr. Connor is trained in performing wetland delineations in accordance with State of Florida and Federal (U.S. Army Corps of Engineers) guidelines. He is also experienced in environmental permitting and has attained ERP and Section 404 Permits for numerous roadways, mining, and other individual projects as well as Threatened and Endangered Species Relocation and Incidental Take Permits, U.S. Coast Guard Bridge Permits, and many local Environmental Permits. Mr. Connor is also experienced in the National Environmental Policy Act (NEPA) process and documentation as well as the Uniform Mitigation Assessment Method (UMAM) and its use in ERP and Section 404 permitting.

His hands-on field experience is also a key ingredient in the development and implementation of mitigation designs and remediation plans. He has aided in the development of mitigation designs and construction inspections for several mitigation sites in throughout Florida. While working on his Master's degree, Mr. Connor spent three years monitoring habitat requirements and behavior of gopher tortoises, a species designated as Threatened by the State of Florida. In addition, Mr. Connor participated in surveys to evaluate habitats for wildlife utilization and to document the presence of amphibians and reptiles throughout central and south Florida. While at Wake Forest University, Mr. Connor worked in an ecology lab where he participated in a long-term project monitoring plants for resistance to diseases.

Project Experience

118th Expressway, Clearwater, FL, PBS&J, Structural design services for the construction of a new urban expressway within the existing median of 118th Avenue. Lochner prepared a bridge development report for three structures (totaling over 6,000 feet in length and including post-tensioned straddle bents) and final design plans for one structure—a 1,600-foot bridge that incorporates the new Florida I-Beam. Lochner is also responsible for traffic control, construction staging, lighting design, environmental field work, and utility coordination.

Environmental Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

CR 388 PD&E Study, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study for the existing CR 388 roadway corridor, and its extension on new alignment, from US 98 in Walton County to SR 77 in Bay County.

Environmental Lead responsible for:

- Performing field work, collecting environmental data including wetland assessments and threatened and endangered species surveys, and writing environmental reports including Wetland Evaluation Report and Endangered Species Biological Assessment.

FDOT D3 Misc Bridge Repair C-8R81, Chipley, FL, Florida Department of Transportation-District 3, Lochner developed Fracture Critical Checklists for two bridges in District 3. The checklists were utilized by FDOT inspectors to record findings.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

SR 688 (Ulmerton Road), from West of Lake Seminole Bypass Canal to East of Wild Acres Road, Pinellas County, FL, E.C. Driver & Associates, Inc., The proposed improvements involve widening of SR 688 (Ulmerton Road), from west of the Lake Seminole Bypass Canal to east of Wild Acres Road, in Pinellas County, Florida. The length of the project is approximately 1.4 miles.

Environmental Permit Lead responsible for:

Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Years of Experience:

16

Education:

Bachelor of Science in Biology,
Wake Forest University, 1992
Masters of Science in Zoology,
University of South Florida, 1996

Certifications:

Authorized Gopher Tortoise Agent
Stormwater Management Inspector

Areas of Expertise:

- Environmental Permitting
- Wetland Delineations and Assessments
- Wetland Mitigation Services
- Protected Species Surveys, Relocations, and Management Plans
- NEPA Documentation
- Habitat Systems Restoration and Design
- Expert Witness Services

Ryan Huebschman, PE

Traffic Design Engineer

Mr. Ryan Huebschman, PE, is a Traffic Engineer with 10 years' of experience. He has been a member of the Lochner team since 2003. Mr. Huebschman has performed traffic engineering and design tasks within a variety of transportation projects for municipal, county, and state transportation agencies, as well as private developers. He has produced signalization, signing, pavement marking, and/or lighting designs for more than 25 roadway projects – ranging from new residential streets to major expressway conversions. He has considerable experience in the area of traffic studies, ranging from intersection analysis to travel time studies. Mr. Huebschman is proficient with a range of traffic analysis and engineering software, such as CORSIM, Synchro, SimTraffic, HCS, Visual, and MicroStation.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway which involves the reconstruction of approximately three miles of an existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, and is an emerging SIS Connector.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Traffic Engineer responsible for:

- Project management, signalization design, pavement marking design, signing design, and lighting analysis and design.

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities.

Supervisor (Task Mgr.), Transportation Engineer responsible for:

- Operational studies, planning studies, and transportation planning.

SR 83 (US 331) from US 98 to Choctawhatchee Bay, Walton County, FL, Florida Department of Transportation-District 3, Final design and preparation of construction plans for roadway, drainage, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans. Project included 1.5 miles of widening from a two-lane rural arterial to a four-lane divided urban arterial of SR 83 (US 331) in Walton County, Florida.

Transportation Engineer responsible for:

- Signalization design.

SR 85 from General Bond Blvd. to N. of Okaloosa Regional Airport - Plans Update Phase,

Okaloosa County, FL, Florida Department of Transportation-District 3, Full design services for multi-lane reconstruction including a new interchange with grade separation at SR 123 and a

new interchange adjacent to NW Florida Regional Airport in Okaloosa County, FL. Service includes defining the improvement and interchange types for the facility, and updating & re-evaluating the analysis from two prior PD&E Studies. SR 85 is an emerging SIS Connector.

Design Engineer responsible for:

- Lighting design.

US 98 PD&E Study (Traffic Planning), Okaloosa & Walton Counties, FL, Hatch Mott MacDonald, Inc., Traffic engineering services—data collection, operational and multimodal analysis, preparation of traffic study report—for project development and environment (PD&E) study on 12 miles of US 98 in Okaloosa and Walton counties, Florida.

Traffic Engineer responsible for:

- Traffic analysis.

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
Purdue University, 2001

Masters of Science in Civil Engineering,
Purdue University, 2003

Professional Registration:

Professional Engineer: FL #66919

Areas of Expertise:

- ADA Requirements
- Concept Development
- Design Study Reports
- Drafting
- Existing Conditions Analysis
- Interchange Design
- Intersection Analysis
- Intersection Design
- Lighting Design
- Long Range Planning
- Maintenance-of-Traffic Evaluation
- Pavement Design
- Plan Set Assembly
- Roundabout Design
- Signal Design
- Signing and Striping Design
- Single Point Urban Interchange Design
- Traffic Analysis
- Traffic Control Design
- Traffic Modeling
- Urban Arterial Design

Michael Dorweiler, AICP

Transportation Planner

Mr. Dorweiler serves as a Project Manager for H.W. Lochner, Inc. in the Transportation Planning and Traffic Operation Division. He has experience in transportation planning and engineering, including transportation systems planning, corridor studies, long-range planning, traffic impact analyses, and traffic operations. He has worked closely with Department of Transportation staff in corridor and level of service (LOS) analyses, project development and environmental (PD&E) studies, traffic impact studies, access management, and development of a congestion management system. He has managed projects that have included assessing existing and future traffic conditions using Highway Capacity software, FDOT LOSPLAN, Synchro, CORSIM, and VISSIM in determining conventional and non-conventional intersection and interchange concepts, including express lanes and continuous flow intersections. He has enjoyed fostering relationships with various planning, EMO, traffic operations, design, cities and counties staff on projects conducted through the States of Florida, Georgia, North Carolina, New Mexico, Utah, Arizona, Colorado, Wyoming, Montana, Idaho, and Nevada.

Project Experience

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities. Project Manager responsible for contract management.

General Engineering Consultant (GEC), Florida Department of Transportation District One.

Task manager overseeing planning tasks under the contract, including developing a congestion management system process for the Florida Intrastate Highway System (FIHS)/Strategic Intermodal System (SIS) for the twelve counties within District One, defining a Rural Roadway Network for the six rural counties (De Soto, Glades, Hardee, Hendry, Highlands and Okeechobee), and tracking project priorities as part of the Work Program support.

SR 82/Daniels Parkway and US 41/SR 951 Continuous Flow Intersections, Lee and Collier Counties, Florida, Florida Department of Transportation FDOT District One. Task manager coordinating the review of an innovative intersection concept, designed to minimize intersection delays for left turning vehicles, based on VISSIM simulation of design hour traffic, under the GEC contract.

US 41 Corridor Safety Study, Manatee County, Florida, Florida Department of Transportation District One. Project manager determining existing operational deficiencies and recommending improvements to a seven-lane roadway section in south Manatee County, under the GEC contract.

General Planning Consultant, Florida Department of Transportation District Seven. Project manager overseeing a task based contract which to date has included development of the Tampa Bay Regional Planning Model (TBRPM) 2035 Needs network, review of comprehensive plans submitted to the District, review of project traffic reports, and assessment of design alternatives for modifying the existing Skyway Fishing Piers in Florida Department of Transportation Districts One and Seven.

General Planning Consultant, Manatee County, Florida. Project manager overseeing a contract for reviewing various DRIs and traffic impact studies in the County from a traffic operational analysis and impact perspective, based on DRI and county concurrency guidelines.

Planning Services Contract, Central Florida Regional Planning Council. Project manager for a contract in which PBS&J has been retained to provide transportation planning, environmental and graphic information systems (GIS) support and which to date has included development of a concurrency management system for over 30 local jurisdictions in central and southwest Florida.

Years of Experience:

18

Education:

Masters of Science in Civil Engineering,
Georgia Institute of Technology, 1994

Bachelor of Arts in Liberal Arts,

Gustavus Adolphus College, 1985

Master of City Planning in City Planning,
Georgia Institute of Technology, 1994

Professional Registration:

American Institute of Certified Planners #099555

Professional Organizations:

American Planning Association (APA)

Institute of Transportation Engineers (ITE)

Certifications:

Planner

Areas of Expertise:

- Access Management
- Comprehensive Plan Review
- Congestion Management Studies
- Corridor Studies
- Cost Estimating/Analysis
- Development of Congestion Management System
- DRI/Site Impact Analysis
- Feasibility Studies
- Land Use Planning
- Level of Service (LOS) Analyses
- Long-Range Planning
- MPO/Local Government Coordination
- Plans Review
- Project Development and Environmental (PD&E) Studies
- Signal Design
- SubArea Studies
- TIP/LRTP Coordination
- Traffic Control Design
- Traffic Impact Analyses
- Traffic Impact Studies
- Traffic Operations
- Transit Planning
- Traffic Reports
- Traffic Simulation
- Transportation Planning
- Travel Characteristics Surveys

Chuck Craycraft, PE

Senior Structural Design Engineer

Mr. Charles Craycraft, PE, is Lochner's Southern Regional Leader and one of the firm's Senior Vice Presidents. Mr. Craycraft joined Lochner in 1981, bringing with him five prior years' experience in the field of structural engineering. Mr. Craycraft has worked on numerous structural engineering projects in seven states, and has particular expertise in the analysis and design of prestressed concrete and structural steel bridges. He has experience in bridge design on every size and scale – from small creek crossings, to multi-level interstate interchanges, to major waterway crossings. Mr. Craycraft has been the Project Manager or Lead Structural Engineer for many high profile projects. These include the landmark Paris Pike project, which has become an industry standard for context sensitive design; several complex interchange reconstructions on I-75; and I-15 reconstruction under design-build delivery. Mr. Craycraft has also managed an on-call bridge repair and rehabilitation program for the Florida Department of Transportation's District 3 since 1990. This project has involved a number of specialized tasks, such as hurricane analysis of coastal bridges and the investigation of cathodic protection for prestressed concrete piles.

As the Southern Regional Leader, Mr. Craycraft heads a multi-disciplinary team of more than 140 engineers, technicians, inspectors, and administrative staff located in nine offices. In addition to managing financial, business development, administrative, and staffing operations, Mr. Craycraft is responsible for the quality assurance of many of the region's structural projects. Mr. Craycraft brings his wealth of experience to the ACEC-KY Transportation Design and Planning Committee, which liaises between the Kentucky Transportation Cabinet and the engineering community to enhance design and planning in the state.

Project Experience

District Three Miscellaneous Design Projects, FL, Florida Department of Transportation-District 3,

Program Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments

Districtwide Miscellaneous Minor Design, Leon County, FL, Florida Department of Transportation-District 3,

Lead Structural Design Engineer responsible for:

- Providing structural engineering for various projects.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Principal-in-Charge responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges

FDOT District 3 Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Supervisor (Task Mgr.) and Project Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges.

Berea College Traffic Study, Berea, KY, Berea College, Traffic study to determine potential impacts of closing Short Street located behind historic Boone Tavern on the Berea College Campus in Berea, Kentucky. Tasks included traffic counts, modeling and analysis.

Principal-in-Charge responsible for:

- Overseeing traffic study to determine potential impacts of closing Short Street, supervising traffic counts and modeling, and overseeing presentations to city council and city planning commission.

Years of Experience:

29

Education:

Bachelor of Science in Civil Engineering,
University of Missouri, 1985

Professional Registration:

Professional Engineer: FL #40118

Certifications:

Traffic Noise Analysis
Water Quality Impact Evaluation

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development and Reports
- Constructability Review
- Coordination with Environmental, Design, and Construction teams
- Cost Estimate Development
- Design Study Reports
- Engineering Quantity Take-offs
- Environmental Specification Compliance
- Environmental Studies
- Erosion Control Design
- Existing Conditions Analysis
- Freeway Design
- Government and Agency Coordination
- Hydraulic Analysis and Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Local Street Improvements
- Natural Resource Evaluation
- Parking Lot and Site Layout Design
- Permit Coordination
- Phased Construction Plan Design
- Plan Reviews
- PS&E Plans
- Quality Control and Assurance
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Roadway Widening and Reconstruction
- Rural Highway Design
- Scour Analysis
- Sewer Line Design
- Shop Drawing Review
- Site Grading Plans
- Stakeholder Committee Group Coordination
- Stormdrain Design

Doug Burton, PE, PMP

Structural Design Engineer

Mr. Doug Burton, PE, is a Structural Project Manager in Lochner's Lexington, Kentucky, office. Mr. Burton joined Lochner in 2003 with two prior years of structural engineering experience within the transportation industry. Over his career, Mr. Burton has been involved in the design and analysis of bridges and culverts in Florida, North Carolina, Utah and Kentucky. His experience includes the design of concrete, prestressed concrete, steel and steel box girder bridges for many different highway facilities. Mr. Burton also has considerable expertise in structural analysis and load rating. Notably, he conducted analysis of the 13,000-foot Bonner Bridge, a connection between the North Carolina mainland and the Outer Banks, to develop a comprehensive repair and rehabilitation plan for the structure. Mr. Burton also has experience in the inspection of bridges, overhead signs and high-mast lighting structures.

Mr. Burton has held lead design and project management roles on many of the Lexington office's structural projects. He was the Lead Structural Design Engineer for Section 4 of the high profile Ohio River Bridges project. As well as overseeing the design of five bridges and multiple retaining walls, Mr. Burton was involved with the project's public participation and context-sensitive design initiatives. Mr. Burton is actively involved with a number of professional engineering associations, and has held leadership roles within the Kentucky Society of Professional Engineers' (KSPE) and the American Society of Civil Engineers' (ASCE) Bluegrass sections.

Project Experience

Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Structural Design Engineer responsible for:

- Structural design for on-call contract for bridge design services.

On-Call Bridge Engineering & Design (2001-2004), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Performing bridge load ratings using computer programs MDX and BARS.

On-Call Bridge Engineering & Design (2002-2007), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Developing plans/design for bridge rehabilitation projects, expansion joints, bearing pads, scour mediation, maintenance painting, bat guano cleaning, and development for replacement of a PCIB after vehicular collision.

On-Call Bridge Engineering & Design (2005-2009), Florida Department of Transportation-District 3 Chipley, FL, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Manager responsible for:

- Analyzing existing bridges for susceptibility to scour.

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek. Replacement bridge at SR 20 consists of Florida prestressed concrete beams supported on concrete end bents, utilizing square prestressed concrete piles. Replacement bridge at Natural Bridge Road consists of concrete flat slab bridge supported on concrete bents, utilizing concrete drilled shafts.

Lead Structural Design Engineer responsible for:

- Overseeing design of bridge replacements

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
University of Kentucky, 2000

Masters of Science in Civil Engineering,
University of Kentucky, 2001

Professional Registration:

Professional Engineer: KY #23970

Professional Engineer: NC #036458

Professional Engineer: FL #62803

Professional Engineer: UT #2233712-2202

Professional Organizations:

American Society of Civil Engineers

Kentucky Society of Professional Engineers

Certifications:

Project Management Professional

Areas of Expertise:

- Project Management
- Cost Estimates and Specifications
- Design Study Reports
- Maintenance of Traffic Plans
- Bridge Design
- Bridge Inspection and Rating
- Large Box Culvert Design
- Noise Wall Design
- Pedestrian Overpass Design
- Retaining Wall Design
- Structural Design

Doug Hershey, PE *Structural Design Engineer*

Mr. Doug Hershey, PE, is a Structural Engineer. He joined Lochner in 2005, bringing with him five years' prior structural engineering experience within the transportation industry. Mr. Hershey has worked on structural design projects in Florida, Ohio, and Utah. His bridge engineering experience encompasses substructure and superstructure design for a wide variety of highway bridges: curved steel box girder, steel plate girder, prestressed concrete beam, spliced post-tension concrete beam, and concrete flat slab structures, as well as box culverts. Mr. Hershey also has design experience in Accelerated Bridge Construction (ABC), including Self-Propelled Modular Transport (SPMT) techniques. Notably, he was part of the engineering team for the ABC and SPMT design of two I-80 bridges in Salt Lake County, Utah. In addition to bridge structures, Mr. Hershey has designed retaining walls, sign structures, mast arms, and strain poles. Mr. Hershey has field experience in bridge inspection. He has also calculated load ratings for numerous bridges and box culverts. He is proficient in the use of a wide range of engineering software, such as MicroStation, MathCAD, STAAD, Conspan, RC-Pier, CONSPLICE, MDX, and BARS-PC.

Project Experience

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Engineer responsible for:

- LRFR load rating of the 3-span spliced post-tensioned main span using CONSPLICE.

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Lead Structural Design Engineer responsible for:

- Designing & load rating two 3-span cast-in-place flat slab bridge superstructures
- Checking the design of the end bents and intermediate bents
- Plan production and coordination of CADD staff
- Designing nine mast arms (5 standard & 4 non-standard)
- Engineer-of-Record for twin single span prestressed AASHTO girder bridges over CSX Railroad with approximate spans lengths of 94 feet and twin reinforced concrete flat slab bridges over Gum Creek consisting of three 30 foot spans.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Lead Structural Design Engineer/EOR responsible for:

- Designing steel strain poles at the intersection of SR44 and Highview Avenue in Citrus County, FL.

Haines Road (CR 691) from US Hwy. 19 to I-275, Clearwater, FL, Pinellas County Department of Public Works, This project entailed reconstruction and rehabilitation of 1.6 miles of urban roadway. Work included addition of new sidewalks, curb and gutter and a close drainage system, Pinellas County Department of Public Works, Lealman, Florida.

Lead Structural Design Engineer/EOR responsible for:

- Designing mast arm structures at 54th Avenue North / 28th Street North intersection, providing bus bench pad and gable shelter details.

Roosevelt Boulevard/CR 296/ I-275 Connector, Clearwater, FL, Florida Department of Transportation-District 7, Design two of the six phases planned for CR 296, a major new limited access connector to I-275 in Pinellas County. This project addressed Phase 2, which will extend CR 296 to the west to the vicinity of 40th Street, and Phase 3, which will connect CR 296 with Roosevelt Bld. across I-275, and provide a northbound to westbound connection between the interstate and CR 296.

Structural Design Engineer responsible for:

- Checking the beam and diaphragm design, load rating, and pier design and design of the end bents.

Years of Experience:

11

Education:

Masters of Science in Civil Engineering (Structural Emphasis),

University of Toledo, 2001

Bachelor of Science in Civil Engineering,

University of Toledo, 2000

Professional Registration:

Professional Engineer: FL #63325

Professional Engineer: OH #69633

Professional Engineer: UT: #7437470

Areas of Expertise:

- Bridge Design and Load Rating
- Steel Box and Steel Plate Girder Design
- Prestressed Concrete Girder Design
- Spliced, Post-Tensioned Concrete Girder Design
- Overhead and Cantilever Sign Structure Design
- Mast Arm Design
- Strain Pole Design
- Retaining Wall Design
- Shop Drawing Review



**James E. Melcher, P.S.M.
Project Surveyor**

Nobles Consulting Group, Inc.
2844 Pablo Avenue
Tallahassee, Florida 32308
Phone: (850) 385-1179

January 1997 to present

Registrations:
Florida No. 6159

Education:
B.S. Geography
Florida State University
1992

**Professional
Affiliations:**
Florida Surveying &
Mapping Society (FSMS)

Summary of Qualifications:

Mr. Melcher has over fifteen years of experience in survey data processing and right of way mapping. As a survey project manager in NCG's Tallahassee office, he is responsible for the preparation and review of right of way maps, title searches, legal descriptions, field data and control surveys for FDOT projects. Mr. Melcher has an extensive background in the primary analysis of field data and is very proficient in CAICE, Microstation and AutoCad formats. He also serves as designer/CADD Technician for highway and bridge design projects at NCG.

Project Experience:

Capital Cascades Trail Segments 3 and 4, Tallahassee, Florida. Provided topographic survey for design of multimodal trail segments along 4 miles of Tallahassee's major drainage feature. Project included establishment of horizontal and vertical control points and a referenced project baseline for tie in with other City of Tallahassee projects. A complete 3-D topographic survey of the St. Augustine Branch and Central Drainage Ditch was completed. Detailed surveys of 21 existing drainage structures / bridges along the corridor were undertaken. Several offsite parcels for pond / wetland creation were located. A utility survey and several tree surveys were also scoped.

FP 222589, 222590, 222593 SR 8 (I-10) from Rest Areas to East of SR 261 (Capital Circle NE) Leon County, Florida. Provided full 3D design survey of I-10 corridor, 3 major interchanges and side streets for the widening of I-10 to six lanes. Some R/W acquisition was involved. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety concerns. Approximately 13.5 miles of corridor.

SR263 (Capital Circle NW) from S of SR 10 (US 90) to SR 8 (Interstate 10), Leon County, Florida (FP 2197221). Provided full 3D design and Right of Way Control Survey for in-house design by District 3. The 2.2 mile project consisted of a 300 foot wide swath including the existing right of way of SR 263 for widening from 2 lanes to 6 lanes with a transition area at both north and south ends. Additional work consisted of the stakeout and monumentation of newly acquired right of way.



SR 369 (U.S. 319) from East Ivan Road to the Leon County Line Wakulla County, Florida (FP 2204951). Provided full 3D design survey and Right of Way Control Survey for multilane reconstruction and property acquisition for a 5.7 mile corridor. Included preparation of Right of Way Control Survey maps and Formal Jurisdictional Wetland Determination Maps.

SR 10 (US 90 / West Tennessee Street) from SR 263 to Ocala Road, Leon County, Florida (FP 4063331). Full 3D design survey for 3-R project including major median work and drainage redesign at CSX RR overpass within a 3.3 mile urban project. Additional survey services included preparation of Right of Way

Gaines Street Realignment from Jackson Bluff Road to Monroe Street (SR 63 / US 27) (FP 2197701). Control for LAMP project and conventional topography for SR 371 in Leon County, control survey and R/W mapping.

SR 83 (US 331) from Choctawhatchee Bay Bridge to 0.5 Mi. S of Freeport Walton County, Florida (FP 2206791). Full 3D Design and Right of Way Control Survey for road widening and property acquisition including preparation of Right of Way Control maps and TIITF easements for approximately 3.3 miles of corridor.

SR 85 (Eglin Parkway) from Richbough Avenue in Shalimar to Wolverine Avenue in Valparaiso, Okaloosa County, Florida (FP 4063271). Full 3D design survey for milling and resurfacing / roadway improvements for 8.06 miles of multilane highway. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety.

SR 20 (US 27 / Apalachee Parkway) from SR 261 to the Jefferson County Line, Leon County, Florida (FP 4090251). Full 2D / partial 3D design survey for 9.39 miles of multilane corridor roadway improvements.



2734 Capital Circle NE, Florida 32308
Phone: 850/385-1133
Fax: 850/385-1236
Website: www.dddsinc.com

PROFESSIONAL RECORD

Jason D. Hill, PSM
Survey Project Manager

Jason Hill has 23 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 16 years. His experience encompasses: design surveys; right-of-way surveys; horizontal and vertical control surveys, topographic surveys; including utilization of electronic field book; jurisdictional delineation; and geodetic and construction surveying. As a Project Manager he has the responsibility of managing multiple projects, ensuring detailed attention and quality assurance to each one. His duties include: client contact; scheduling, manpower allocation; quality control and project budgets. Mr. Hill has worked with various city and county governments, the Florida Department of Transportation, and a variety of private sector clients.

KEY PROJECTS

FDOT 3 SR 61/US 319 (Leon) 4246091 from Timberwolf Crossing to the Georgia State Line: Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, 2011, Woolpert, Tallahassee, FL: Mr. Hill is the Project Manager for this project which consists of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR.

FDOT 3 Bellview & Bauer Bridge in Escambia County: Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 CR10 US 90 (Walton) 4246131 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

FDOT 3 SR20 (Leon County) 423067-1 Jason is the Project Manager for this project for which 3DS is providing surveying services for the 3R project These services included typical 3R cross-section and data collection of utilities, drainage and 2D planimetrics

FDOT 3 SR30A (Bay County) 219312-1 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 3D topographic survey.

City of Tallahassee/Blueprint 2000 Capital Circle NW/SW: Mr. Hill provided surveying services for the full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Holmes 4252772 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Walton 4252771 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 SR 291 (Escambia) 4153781 Jason was the Project Manager for this project which included boundary location for the preparation of a control survey.

PROFESSIONAL ACHIEVEMENTS

Professional Surveyor and Mapper, State of Florida, Certification No. 6008

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Myron L. Hayden, Ph.D., P.E. **Geotechnical Engineering**

Professional Credentials:

Bachelor of Science, Civil Engineering, Tri-State University, 1974
Master of Science, Civil Engineering, Oklahoma State University, 1975
Doctor of Philosophy, Civil Engineering, Oklahoma State University, 1978
Professional Engineer in Florida
General Contractor in Florida

Professional Organizations:

American Society of Civil Engineers - Vice-President of North Florida Region - President of Tallahassee Chapter - Engineer of the Year
Florida Engineering Society - Vice-President of North Florida Region - Past President of Big Bend Chapter - Elected Fellow - Engineer of the Year
American Society of Transportation Engineers
American Public Works Association
National Society of Professional Engineers
Transportation Research Board (National Academy of Sciences) - Former National Committee Chairman

Special Qualifications:

- Over 30 years of Geotechnical design and investigation experience including roadway studies, bridge designs, and groundwater control
- Highly-skilled consensus builder on controversial projects
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 18; Years Experience with Other Firms: 16

Relevant Experience:

Districtwide Miscellaneous Geotechnical Consultant to the Florida Department of Transportation, District 3, Chipley, FL – Provides miscellaneous services to the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

SR 79, Washington County, FDOT District 3, Holmes and Washington County, FL (FDOT FPN 220773-32-01, Sections 3, 5, 6, 7 and 8) – Conducted the geotechnical investigation for five (5) sections of the SR 79 reconstruction and widening project in Washington and Holmes County, Florida. The geotechnical design for the roadway included asphalt coring, parameters for pavement design, analysis for culvert extensions, and recommendations for swale exemptions and stormwater ponds. Also included in the project was the bridge and embankment design for the SR 79 bridge replacement over Holmes Creek and the bridge replacement over Reedy Branch Creek.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Thomas H. Hayden, P.E. Geotechnical Engineering

Professional Credentials:

Bachelor of Science, Civil Engineering, University of South Florida, 2003

Professional Engineer in Florida

Professional Organizations:

American Society of Civil Engineers – 2008 President Tallahassee Chapter – 2008-2010 FAMU/FSU College of Engineering Student Chapter Liaison – 2009 Young Engineer of the Year

Florida Engineering Society – 2008-2009 K-12 Education Committee - 2006-2008 Math Counts Committee – 2009 Florida Engineering Leadership Institute Graduate

Geotechnical Materials Engineers Council

Special Qualifications:

- Over 10 years of Geotechnical design and investigation experience, including roadway studies, stormwater design, pavement design, and materials engineering
- Familiarity of FDOT Geotechnical Standards
- CTQP/ACI Certifications: Aggregate Field and Laboratory Testing Technician, Asphalt Plant Technician – Levels I and II, Field Sampler Technician, LBR Technician, Concrete Field Technician – Levels I and II, Concrete Laboratory Technician – Level 1, Quality Control Manager, Concrete Transportation Construction Inspection, Advanced Maintenance of Traffic Inspector and FDEP Erosion Control Inspector

Years Experience with EGS: 7; Years experience with other firms: 3

Relevant Experience:

GPI Southeast, Inc., Proposed Longleaf Development, Stormwater Treatment Facilities, Wakulla County, FL – Performed subsurface investigation of the proposed Longleaf Development. Provided client with subsurface conditions, encountered groundwater and estimated “normal” seasonal high groundwater, design infiltration rates, and anticipated construction considerations.

Carollo Engineers, Lake Bradford Road Wastewater Treatment Facility, Tallahassee, FL – Performed subsurface investigation of the proposed roadway and parking improvements at the Lake Bradford Wastewater Treatment Facility. Provided the client with design and reuse recommendations for each material STRATA encountered throughout project.

Florida Department of Transportation, District 3, SR 97 Pavement Core and Condition Survey, Escambia County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 97 in Escambia County, Florida. Provided the District with the types of pavement failure encountered, anticipated construction considerations, and design recommendations.

Florida Department of Transportation District 3, SR 61 Pavement Condition Survey and Design, Leon County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 61 (North Monroe Street) at the proposed Lake Jackson Eco-Passage. Provided the client with compaction characteristics of the existing embankment material as well as design recommendations for the proposed pavement.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC

Derwood C. Sheppard, P.E.
Engineer

Professional Credentials:

Bachelor of Science, Civil Engineering, Florida State University, 2004
Professional Engineer - Florida

Professional Organizations:

American Society of Civil Engineers, Big Bend Chapter, Florida Engineering Society

Special Qualifications:

- Geotechnical design and investigation experience, including roadway studies, bridge designs, and stormwater management
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 7

Relevant Experience:

District-wide Miscellaneous Geotechnical Consultant to the FDOT, District 3 – Assisted with the design of various transportation related projects for the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

Miscellaneous Scour Geotechnical Studies for Scour Protection, FDOT District 3 – Assisted with the geotechnical studies for the design of bridge protection and scour countermeasures. The countermeasures included crutch bents, riprap abutment protection, fender systems, stabilization of causeways, riprap blankets, and sheet pile walls. Typical examples of projects include SR 30 over Pensacola Bay, SR 10 over Black Water River, SR 30 over Choctawhatchee River, SR 30 over Ochlocknee Bay, SR 8 (I-10) over Little River. The services included conducting a file search and evaluation of past geotechnical investigations, pile driving records, and field notes. Services also included Post Design services to assist with constructability questions.

SR 30 (US 98) over the St. Marks River Bridge Replacement, FDOT District 3, Wakulla County, FL (FDOT FPN 220499-1-52-01) - Assisted with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to the bridge replacement roadway upgrades and widening, muck studies and temporary construction methods were investigated and designed.

SR 79 over Holmes Creek Bridge Replacement – FDOT District 3, Holmes County, FL (FDOT FPN 407167-1-52-01) – Duties included assisting with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to drilled shafts, because of the deep scour at the channel locations, a complex foundation consisting of both drilled shafts and pipe piles was needed to address the constructability issues because of the deep scour known to exist. In addition, non-traditional scour countermeasures were required for the abutments to reduce the potential scour and ensure the bridge abutments would be stable during typical storm surges.



HSA Consulting Group

MICHAEL L. CLELAND, AICP, PTP
TRANSPORTATION MANAGER

Education: Master of Public Administration, University of West Florida
Bachelor of Science in Natural Resources, Ball State University
Member, American Institute of Certified Planners
Member, American Planning Association (APA)

Continuing Education Courses

FDOT Site Impact Workshop
FDOT Design Traffic Workshop
Highway Capacity Analysis Workshop/McTrans Center (University of Florida)
Florida Standard Urban Transportation Model Structure (FSUTMS)
FDOT Level of Service Short Course
FDOT Access Management, Location, and Design Workshop

Summary of Qualifications

Mr. Cleland has over twenty years experience in transportation planning in both the public and private sectors. His experience includes transportation planning and traffic analysis, transit planning, and comprehensive planning. For three years of post-graduate employment prior to joining HSA in 1991, Mr. Cleland served on the staff of three MPO's in northwest Florida, and for one additional year he was a Planner for Baskerville Donovan Engineers in Pensacola. He has extensive experience managing large-scale data collection projects for the Florida Department of Transportation, particularly for traffic and roadway data.

Mr. Cleland has had production management and coordination responsibility on HSA's traffic data collection and analysis programs since joining the firm in 1991. His experience includes managing large scale, multi-years traffic counting inventory programs for the FL Department of Transportation at the Districtwide and Statewide levels. His expertise in traffic forecasting and level of service analysis is well known throughout the State of Florida, as well as his knowledge of traffic operations studies and techniques, including No Passing Zone Studies, Origin and Destination Studies, and detailed Arterial Capacity Analysis consistent with FDOT procedures. In recent years, Mr. Cleland has directed the field operations of multiple No Passing Zone Studies for 3R Design projects throughout the 16-county area of District Three.

Related Project Experience

Districtwide Annual Traffic Counting Program - 1992, 1996 – 2003 - Mr. Cleland served as Project Manager for three multi-year, multi-task work order contracts for conducting annual inventory of traffic counts for FDOT District III, including management of sub-consultants. Services consisted of conducting annual volume and classification traffic counts throughout the 16-county area of District Three. Up to 2000 urban and rural 24- and 48-hour volume and classification counts were conducted each year. HSA also provided planning support services such as Design Traffic Reports.

Selected No Passing Zone Studies

Mr. Cleland has led the field data collection and analysis efforts for multiple No Passing Zone Studies in recent years, particularly for Resurfacing projects throughout FDOT District Three. Examples include the following:

CR 368 (Liberty / Wakulla Counties) from CR 67 to CR 375 – 3.951 miles
SR 89 (Santa Rosa County) from CR 178 to Jay City Limits – 7.442 miles
SR 69 (Jackson County) from SR 10 to SR 71 – 15.577 miles
SR 71 (Jackson County) from Calhoun County line to Malloy Plaza Rd – 8.786 miles
SR 20 (Leon County) from Ochlockonee River Bridge to SR 263 – 19.293 miles
SR 59 (Jefferson County) from SR 20 to Main St – 5.462 miles
SR 77 (Washington County) from SR 273 to Jackson County line – 2.831 miles
SR 10 (Walton County) from Country Club Dr to Holmes County line – 6.558 miles



HSA Consulting Group

Michael L. Cleland, AICP, PTP

Escambia County Engineering Department (2004 – present) – Mr. Cleland successfully manages this ongoing traffic data inventory for HSA. On an annual basis, 48-hour speed counts, 48-hour volume counts, 48-hour classification counts, and eight-hour turning movement counts are assigned through multiple Task Work Orders with tightly specified timeframes.

Design Traffic Analysis Reports (DTR's) for the following FDOT roadway projects: SR 390 - Bay County, SR 30 - Santa Rosa County, SR 10 - Escambia County, SR 295 - Escambia County, SR 291 - Escambia County; SR 79 - Bay County, and so on. Mr. Cleland Also reviews and updates the DTR's of other consultants for the District.

Eglin AFB Master Transportation Plan (Sub-Consultant to STV)

Base-wide Traffic Counting Program, 17,000 Employee O&D Study, and Transportation Plan Development

MICHAEL L. CLELAND, AICP, PTP

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Design Traffic Projections for Multiple Alternatives

US98 PD&E Study–Naval Live Oaks to Portside Drive -Traffic Technical Memorandum/Highway Capacity Analysis for Multiple Alternatives

District Three Land Planner /Business Damage Estimate Support for Multiple Contracts since 1995

Mr. Cleland has led efforts throughout the District which involved developing site inventory data collection plans, access management assessments, driveway and drive-through window queuing analysis, parking demand/ turnover studies.

Seasonal Factors Study – This study reviewed the components of all seasonal factor categories utilized in District 3 and recommended changes to the composition and application of the categories.

Santa Rosa Island Authority (November 2004 – present) – Mr. Cleland provides management and oversight of the continuous volume counts for the entering lanes at the Bob Sikes Bridge toll booth. There are two to four entering lanes open at any given time. Data is downloaded weekly and submitted to the Island Authority. The counters and tubes are monitored and replaced on a regular basis.

Miscellaneous Engineering Firms – HSA collects traffic data for site impact studies, PD&E studies, and Design Traffic development for multiple transportation engineering firms throughout the region on an as-needed basis.

Roadway Characteristics Inventory Consultant - Florida Department of Transportation District III – Mr. Cleland has assisted Ms. Gay Smith in the management of Prime Contracts for RCI since 2000. Mr. Cleland has significant experience with traditional roadway inventory tasks, having managed RCI data entry into IMS, creation of straight line diagrams, and reviewing SLD's created by other consultants.

Hurricane Floyd Evacuation Study - Project completed for the Governor's Hurricane Evacuation Task Force (2000), analyzed TTMS volumes in relation to the hurricane's location at given points in time.

Multi-Modal Corridor Planning Analysis - HSA conducted case studies for two arterials, and analyzed automobile, transit, bicycle, and pedestrian levels of service using innovative analysis methods. The project was conducted for the FDOT Central Office (Systems Planning).

Florida Freight Model - HSA is part of a consultant team developing a statewide computer model for forecasting freight movements. Mr. Cleland compiled data and provided various types of analysis.

Pensacola Urbanized Area Transportation Study (PUATS) 2020 Update (Sub-Consultant) for the Pensacola Metropolitan Planning Organization (MPO). Mr. Cleland developed a database of roadway segments, which included roadway characteristics for number of lanes, level of service, jurisdiction, functional classification, inclusion on the FHHS, etc.



HSA Consulting Group

THOMAS R. BEDELL

Director of Traffic Engineering

Academic Background Pratt Institute, Brooklyn, NY - School of Electrical Engineering
State University at Farmingdale, NY - Computer Science Studies
Brooklyn Polytechnic Institute - Part-time Studies
Fellow-Institute of Transportation Engineers
Member-ITE Urban Traffic Engineers Council
Member-Florida Section ITE
Member-Alabama Section ITE
Member-FSITE Subcommittee on Residential Traffic Control
Member-Florida Engineering Society
Professional Engineer-State of New York #56945, issued 9/7/79
Professional Engineer-State of Florida #28422, issued 10/5/79
Professional Engineer-State of Alabama #19176, issued 11/30/92
Professional Traffic Operations Engineer (PTOE) Certification, Issued 2/99

Professional Experience

As Director of Traffic Engineering for HSA since 2000, Mr. Bedell is responsible for engineering analysis, plan documents, and engineering drawings for traffic signalization including installation of loop detection systems. As part of his work design and construction inspection of TTMS and PTMS sites are included. Recent projects for which he has provided QA/QC and project oversight for HSA include:

Statewide General Traffic Consultant Contract – Sub-Consultant to F.R. Aleman

Mr. Bedell provided project oversight for the inventory, inspection, repair and upgrade of telemetered traffic monitoring sites throughout FDOT District Three. He was responsible for the production and quality oversight for HSA on this contract. As a result, he developed solid working relationships with F.R. Aleman staff in this endeavor.

Statewide General TranStat Consultant Contract – Sub-Consultant to Marlin Engineering

Mr. currently provides oversight and quality control for inventory, inspection and repair of telemetered traffic monitoring sites throughout FDOT District Three and assists with sites in District Two as needed.

Districtwide Miscellaneous Counts and Projections, Florida Department of Transportation District 3 (1996 - 2003). Mr. Bedell provided project oversight for HSA on the volume and vehicle classification counts throughout the District (16 counties) for the annual traffic count inventory. Included were completion of counts for Urbanized Area Long-Range Plan Updates, and data collection for numerous Design Traffic Reports.

Miscellaneous Traffic Volume and Intersection Turning Movement Counts for Project Development Studies and Design Projects for HDR, PBS&J, Kimley Horn, Hatch Mott MacDonald, DRMP and so on.

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Projections

US98 PD&E Study – Naval Live Oaks to Portside Drive – Traffic Technical Memorandum/Highway Capacity Analysis

As Senior Traffic Engineer for the City of Pensacola from 1980 to 2000, Mr. Bedell completed the following:

- Developed procedures for identifying and analyzing high accident locations and established a continuing traffic count program for the City of Pensacola Florida.



THOMAS R. BEDELL,
P.E., PTOE

- Design, construction supervision and programming of signal system consisting of 48 intersections. SOAP and Passer II were used for critical intersection and arterial analysis
- TRANSYT 7, through leased time at the University of West Florida, were used for network simulation & optimization. This work was completed with TRANSYT 7F upon its release.
- Technical review of the feasibility study for the Areawide Escambia County Traffic Signal System which will include approximately 120 signals in Escambia County and the City of Pensacola.
- Technical coordination with the Florida Department of Transportation and JHK & Associates in the design and implementation of an Areawide closed loop traffic signal system to include approximately 130 signals in the City of Pensacola and Escambia County.
- Project Manager for five highway safety sub grants which included a microcomputer package, microcomputer enhancement package, traffic counters, a thermoplastic application system, and a video logging system for a sign inventory. The sign inventory entails the video logging of the city's approximately 8300 traffic signs. This data contains type, location, and condition and is entered into a computer database, using dBase 3+, for historical information and establishment of a maintenance replacement program.
- CBD Signal Timing Study in Pensacola, FL
- Cervantes Street Study under the GASCAP Program of the University of Florida-1986, Pensacola, FL
- 12th Avenue Signal Timing Study-1988
- Cervantes Street Closed Loop Signal System Design in Pensacola, FL -1992
- 12th Avenue Closed Loop Signal System Design in Pensacola, FL -1987
- Signing, Pavement Markings, Channelization; Palafox Street Re-construction in Pensacola, FL
- Cervantes & Perry Signal Design in Pensacola, FL -1986
- Barrancas & Main Street Signal Design in Pensacola, FL -1987
- Palafox Street Signal Reconstruction in Pensacola, FL -1992
-

As City Traffic Engineer for the City of Pensacola, Mr. Bedell was directly responsible for the design, installation, and maintenance of sub-systems of the Pensacola Computerized Traffic Signal System. Such activities included design and maintenance of the 12th Avenue sub-system including coordination equipment, interconnection cable and system sensors. The system sensors provide real-time traffic data for timing plan selection and produced an on-going historical database. The database was used to produce AADT, D, K and PHF's.

Other Project Experience

- Wal-Mart Signal Design in Escambia County - 1993
- Creighton Road Signal Timing Study in Escambia County - 1995
- US 98 & Hutchinson Signal Design in Destin - 1995
- US 29 Signal Timing Study in Escambia County - 1997
- Signal System Feasibility Study in Foley, AL - 1997
- Chiefs' Way Signal System Analysis and Design in Pensacola - 1998
- US 98 Traffic Analysis in Gulf Breeze - 1998
- SR 79 Signal Design in Panama City - 1999
- Davis Highway Design, Segment 1 and Segment 2 - Intersection Engineering Analysis
- Nine Mile Road Design - Intersection Engineering Analysis

As Assistant Civil Engineer for the New York State Department of Transportation for 18 years, Mr. Bedell's experience included the following:

- Design of signals and signal systems and preparation of detailed plans, specifications, and estimates for signal and sign work included in construction projects.
- Calculating and refining signal timing settings
- Signal design and field layout for signal installations and modifications completed by State forces.
- As Engineer-in-charge of traffic signal operations, assumed responsibility for installation, modification, timing, and maintenance of approximately 725 traffic signals under the jurisdiction of the N.Y.S.D.O.T.
- Completed intersection analysis and design including application of traffic engineering principles for sophisticated signal systems (e.g. the computerized digital Sunrise Highway signal system)

Commitment to Minority/Women Business Enterprises

For assignments that require professional services beyond the capability of our local staff, such as survey, geotechnical, and traffic data collection, we will utilize local Minority/Women Business Enterprises to fulfill Leon County's M/WBE participation goals. **Lochner** is committed to utilizing local small and minority businesses on our projects. In 2009 we received the FICE/FDOT DBE Utilization Award for being the #1 Engineering Firm in the State for DBE Utilization. Our current average DBE utilization rate on State projects exceeds 13 percent.



Diversified Design and Drafting Services (3DS), Environmental and Geotechnical Specialists (EGS), and Hamilton Smith and Associates (HSA), all certified M/WBE firms, will serve as subconsultants as needed on assignments under this contract. We have a long and successful work history with each of these firms.

B. Experience with Projects of a Similar Type and Size

The **Lochner Team** offers Leon County a strong local presence, a history of successful projects, and expertise in providing the services requested under this contract. The following projects demonstrate our recent project experience and qualifications in the Work Categories of Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, and Structural Engineering.

Providence Community Roadway Projects (Group N & Q)

Tallahassee, Florida

Firm Responsibility:	Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering
Project Description:	Provided Preliminary Engineering Study, Design Services, and Post Design Services for street and drainage improvements to Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets in the Providence Neighborhood of Tallahassee. Major work efforts included roadway design, signing and marking design, drainage design, traffic analysis, utility coordination, permitting, and public involvement activities.
Project Owner:	City of Tallahassee 300 South Adams Street Tallahassee, Florida 32301
Project Contact:	Mr. Bill Woolery, PE Project Manager 850.891.8471
Completion Date:	February 2011
Project Team:	Michael Woodard, PE – Project Manager and EOR Tony Alex, PE - Lead Roadway Engineer Scott Simmons, EI – Roadway Engineer Ryan Huebschman, PE – Lead Traffic Engineer

Capital Circle NW/SW Widening

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of Capital Circle from Orange Avenue to US 90 (Tennessee Street) in Tallahassee. Major design work efforts included roadway design, drainage design, bridge design, signing and marking design, signal design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: Blueprint 2000
2727 Apalachee Parkway, Suite 200
Tallahassee, Florida 32301

Project Contact: Mrs. Latesa Turner, PE
Project Manager
850.219.1060

Completion Date: June 2011

Project Team: Hugh Williams, PE – Project Manager and EOR
Michael Woodard, PE – Lead Roadway Engineer
Natalie Zierden, PE – Lead Drainage Engineer
Doug Hershey, PE – Lead Structural Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

SR 61 (US 319) Thomasville Road Resurfacing Project

Leon County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided Design Services for resurfacing, restoration, and rehabilitation of four-lane divided Thomasville Road from Chiles High School to Georgia line in Leon County. Major work efforts included roadway design, drainage design, bridge culvert design, traffic analysis, signing and marking design, utility coordination, and permitting.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date: December 2010

Project Team: David Freni, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

SR 83 (US 331) Widening Project

Walton County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for four-lane widening of US 331 from US 98 to the Choctawhatchee Bridge in Walton County. Major design work efforts included roadway design, drainage design, signal and signal structure design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Dean Mitchell, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: December 2009

Project Team: Hugh Williams, PE Project Manager
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Ryan Huebschman, PE Traffic Engineer

SR 85 at SR 123 Widening and New Interchange Project

Okaloosa County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of SR 85, four-lane widening of SR 123, and new grade separated interchange adjacent to NW Florida Regional Airport on Eglin AFB. Major design work efforts included roadway design, drainage design, signal and signal structure design, bridge design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mrs. Noelle Warren, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: March 2009

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

CR 388 (West Bay Parkway) PD&E Study, Segment 2

Bay County, Florida

Firm Responsibility:

Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description:

Provided PD&E Study and preliminary Design Services for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridge structures at three locations. Major design work efforts included preliminary roadway design, drainage design, intersection design, bridge design, signing and marking design, utility coordination, permitting coordination, and public involvement activities.

Project Owner:

FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact:

Mr. Brandon Bruner, PE
Project Manager
850.638.0250

Completion Date:

June 2011 (PD&E Study); Design is on-going

Project Team:

Hugh Williams, PE	Project Manager and EOR
David Freni, PE	Sr. Roadway Engineer
Natalie Zierden, PE	Sr. Drainage Engineer

C. Willingness to Meet Schedule and Budget Requirements

Working Efficiently

The **Lochner Team** is aware of the fiscal challenges that Leon County is currently facing and our approach to this contract will be to deliver solutions that maximize your investment on each assignment. We understand the importance of providing the most benefit for the taxpayers' dollars. One way we achieve this is through the use of senior staff to direct the heart of an assignment, and to provide quality control and quality assurance services, while junior, yet fully-capable, staff are used for the hour-to-hour production. This balancing of staff provides the best product at the lowest cost to you.

Communicating Effectively

The **Lochner Team** is committed to meeting your needs in a professional and timely manner while delivering high quality products on time and within budget. We will approach each assignment as a unique project with the understanding that creative solutions and designs are often necessary to make a project successful. As such, we recommend that a kick-off meeting be held for each assignment, with key project team members from the County, the **Lochner Team**, and other interested stakeholders present to identify project constraints, goals, and expectations. During the kick-off meeting, typical agenda items will include:

- Introduction of project team members, roles, and responsibilities
- Identification of project goals, concerns, and special constraints
- Review of budget and funding sources
- Review of schedule and critical milestones
- Discussion of creative alternatives, if needed

In addition to kick-off meetings, we propose to have milestone or phase review meetings, as needed, and we will always maintain open lines of communication with and coordinate with the appropriate County staff and other team members to ensure projects stay on track.

Maintaining High Quality

A good quality control plan must be adhered to even more so on the short duration task assignments under this contract than with other longer duration design contracts. The reason for this is because there is less time and fewer opportunities to find and correct mistakes. When schedules are compressed and phase submittals are omitted, it becomes even more imperative to follow the quality control plan. **Lochner** has a quality control program that has been tested and proven to be very dependable for many years and this is reflected by the high grades and re-selections we consistently receive from our clients on other design contracts. Avoiding errors and omissions saves everyone time and money.

D. Effect of Firm's Recent, Current, and Projected Workload

Our key staff members currently have an overall availability of more than 50% through October 2011 and 50-75% availability for the remainder of 2011. We are ready and willing to respond to any task assignment under this contract. You call us and we are there!

The following list gives details of the active design projects being managed from our Tallahassee Office.

Capital Circle NW/SW Widening

Project Manager: Hugh Williams
Estimated Completion Date: June 2011

Lonnbladh Road Stormwater Treatment Facility

Project Manager: Natalie Zierden
Estimated Completion Date: April 2011

Tallahassee Sidewalks, Group B-4

Project Manager: Tony Alex
Estimated Completion Date: April 2011

SR 20 Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: June 2011

Natural Bridge Rd Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: August 2011

CR 388 PD&E Study, Segment 1

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

Starke Bypass New Alignment

Project Manager: Hugh Williams
Estimated Completion Date: November 2011

US 17 Widening

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

E. Effect of Project Team Location

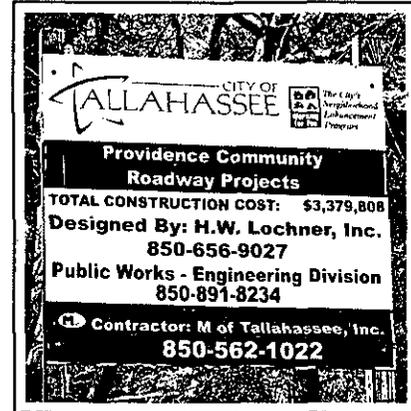
Lochner has maintained an office in Tallahassee since 1998. We are located just two miles from the Leon County Public Works Department and three miles from the Leon County Commission Chambers, which provides convenient access and minimal notice to attend meetings at either location.

With our project manager (David Freni, PE), a full roadway and drainage design group, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

We currently have 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering.

F. Approach to the Project

Upon receiving notice of a planned work order, David will be the first to thoroughly discuss the project objectives with the County's project manager. David and other members of the **Lochner Team**, as needed, will then conduct a cursory review of the project limits and prepare a scope, fee, and schedule for the proposed work to ensure that we all have the same understanding of the project's objectives and constraints. Depending upon the scope and work mix of these assignments, the **Lochner Team** is capable of assigning up to six teams to work on projects under this contract at any one time. David has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.



Our approach to every project is simple. We will help you achieve your goals by:

- Responding Immediately
- Working Efficiently
- Communicating Effectively
- Maintaining High Quality



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Structural Engineering

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A. Ability of Professional Personnel

People Resources

Lochner currently has 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering. With our project manager (David Freni, PE), a roadway design group and drainage design group capable of performing the full range of services within these disciplines, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

All Roadway Design and Stormwater Engineering services will be provided by our Tallahassee office staff. Some Traffic and Intersection Engineering services will be supported by our Clearwater office, particularly by way of providing traffic analysis, signal design, and lighting design. All Structural Engineering services will be supported by our Clearwater and Lexington offices.

As you will see in the staff resumes and statements of project experience that follow, our proposed **Lochner Team** has a vast amount of experience working together successfully on projects here in Leon County. Our team is organized to be responsive to the needs of Leon County by providing the resources necessary to address all of the work assignments anticipated under this contract.

Additionally, depending upon the scope and work mix of the assignments, we are capable of assigning up to six teams to work on projects under this contract at any one time. Ultimately, our project manager, David Freni, has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.

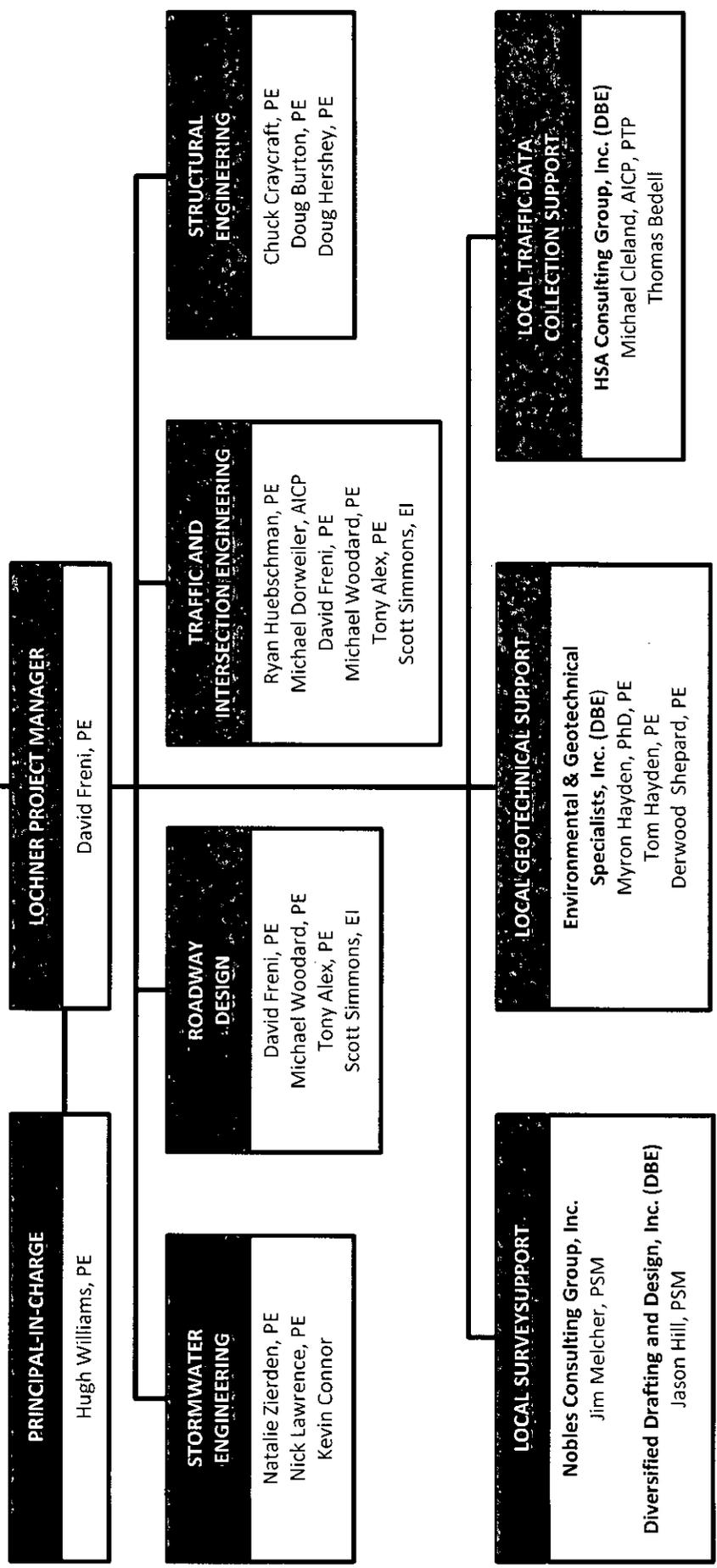
Technical Resources

In the 1960s **Lochner** developed early engineering software with applications for highway geometry, drainage, earthwork, and bridge design. One of the first comprehensive highway design software systems called HDPS was developed by **Lochner**. HDPS was endorsed by FHWA and many state DOTs.

Today **Lochner** has extensive experience in developing and implementing production and design programs for various governmental agencies. We utilize the latest and greatest design programs and equipment to efficiently provide our clients with high quality products. Our primary roadway design software is Microstation and AutoCadd, making use of the most current FDOT Site Menus; For drainage and stormwater modeling we use Geopak Drainage, ASAD, HECRAS, ICPR, and Hydraflow; For bridge design we use Conspan, RC-Pier, MDX, STAAD, FB-Multiplier, PCA Column, and other FDOT programs that utilize Mathcad. While **Lochner** has already demonstrated its competence in the above software to clients, we understand the need to remain current with new software releases and design techniques as they become available, and commit ourselves to seeking every avenue that will bring a better final product to our clients.

Organizational Chart

Civil Engineering Services
 Continuing Supply
 Proposal Number BC-03-17-11-25



LOCHNER

Hugh Williams, PE

Principal-In-Charge Quality Assurance

Mr. Hugh Williams, PE, is a Senior Project Manager and one of Lochner's Vice Presidents. He joined Lochner in 1986, bringing with him 11 years' prior experience in transportation engineering. Mr. Williams has a broad managerial and roadway engineering background, encompassing both project development and environment (PD&E) studies and final design projects. He has served as Project Manager or Task Leader for projects involving the new construction, reconstruction and/or rehabilitation of urban arterials, rural expressways, interstate highways, interchanges and intersections, railroad facilities, and airport taxiways. Mr. Williams has particular expertise in the development of traffic control and construction staging plans for complex projects in densely populated areas. Mr. Williams is a highly experienced project manager. He has led many high-profile PD&E studies and transportation design projects requiring the coordination, scheduling, and oversight of multi-disciplinary engineering staff and large subconsultant teams. Such projects include the design of improvements to the SR 102/International Airport Boulevard interchange in Jacksonville, Florida, which was named 'Urban Interchange Project of the Year' by the Florida Road Builders Association. He has also led a number of environmentally sensitive projects, notably including the PD&E study for a proposed 24-mile expressway/arterial in Walton and Bay Counties, Florida, predominantly on new alignment, with a high-level bridge over the Intracoastal Waterway.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Project Manager and EOR

SR 83 (US 331) from US 98 to Choctawhatchee Bridge, Walton County, FL, Florida Department of Transportation-District 3, Project Development & Environment Study and Final Design of roadway, drainage, structures, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans for reconstruction of 1.5 miles of existing two-lane rural arterial roadway to a four-lane divided urban arterial roadway.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Project Manager and EOR

Districtwide Miscellaneous Design Drainage Consultant, Florida Department of Transportation-District 3, Provided drainage design and a wide variety of hydrologic and hydraulic services.

Principal-in-Charge

Years of Experience:

36

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1976

Professional Registration:

Professional Engineer: FL #23034

Professional Engineer: TX #TBD

Professional Engineer: GA #032302

Professional Organizations:

Florida Engineering Society

National Society of Professional Engineers

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development
- Construction Phasing Plans
- Design Management
- Design Study Reports
- Environmental Assessments
- Environmental Impact Statements
- Environmental Studies
- Freeway Design
- Government and Agency Coordination
- Hydraulic Design
- Hydrology
- Interchange Design
- Intersection Design
- Local Street Improvements
- Park and Ride Lots
- Parking Lot and Site Layout Design
- Pavement Design
- Project Management
- Public Involvement Plan Development
- Public Private Partnership
- Quality Control and Assurance
- Railroad Crossing Design
- Railroad Design
- Right-of-Way Acquisition
- Roadway Design
- Roadway Widening and Reconstruction
- Roundabout Design
- Rural Highway Design

David Freni, PE Project Manager

Mr. David Freni, PE, is a Senior Highway Design Engineer with civil engineering experience predominantly within the field of transportation. He joined Lochner in 2009.

Mr. Freni has considerable experience – as an engineer and manager – with roadway and drainage design projects, including design-builds. He has led design for the new construction, reconstruction, and/or rehabilitation of city streets, intersections, urban and rural arterials, expressways, interchanges, and multi-use trails. His roadway design expertise includes geometric design, traffic control planning, specification development, environmental permitting, and construction staging. As a Project Manager, he has successfully headed large, multi-disciplinary projects requiring coordination with numerous subconsultant firms. He has worked with clients ranging from state Departments of Transportation to regional economic development alliances to counties, municipalities, and private developers.

In addition to roadway engineering, Mr. Freni has worked in the fields of site development design and geotechnical engineering. His experience in these areas includes soil testing and classification, drilling operations, and geotechnical and environmental site assessments.

Project Experience

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Project Manager and EOR

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This SR project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Project Manager and EOR

CR 388 PD&E Study, Segment 2, Bay County, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridges in three locations.

Deputy Project Manager and Senior Roadway Engineer

Capital Circle SE, Tallahassee, FL, Blueprint 2000, Design-Build project for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway from Tram Road to Connie Drive, included roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, traffic control, and permitting.

Roadway Design EOR

Years of Experience:

18

Education:

Bachelor of Science in Civil Engineering,
University of Florida, 1992

Professional Registration:

Professional Engineer: FL #51367

Professional Organizations:

Florida Engineering Society

Certifications:

Advanced Maintenance of Traffic Qualification
Qualified Stormwater Management Inspector

Areas of Expertise:

- Design Management
- Program Management
- Project Management
- Intersection Design
- Multi-Modal Trail Design
- Permit Coordination
- Quality Control and Assurance
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Urban Arterial Design

Michael Woodard, PE

Senior Roadway Design Engineer

Mr. Michael Woodard, PE, is a Senior Highway Design Engineer and Project Manager. He joined Lochner in 1999, bringing with him 15 years of engineering experience, seven of which were within the transportation industry. He specializes in roadway design.

During his career, Mr. Woodard has worked on dozens of roadway design projects, ranging in size from sidewalk improvements to large, complex interchanges, and encompassing both urban and rural facilities. He has expertise in all aspects of the roadway design process, including horizontal and vertical geometry, intersection reconfiguration, traffic control plans, utility relocation, earthwork computations, cost and quantity estimating, and pavement design. Mr. Woodard also has considerable experience in the design of box culverts and open and closed drainage systems.

Mr. Woodard has held lead design and project management roles on many large transportation projects. Notably, he is the Senior Roadway Engineer for the high-profile Capital Circle reconstruction and widening project in Tallahassee, Florida, which is being completed under design-build delivery. With his wealth of experience, Mr. Woodard is often called upon to perform peer review and quality assurance for roadway and drainage design plans prepared in Lochner offices across the country.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Design Engineer responsible for:

- Designing horizontal and vertical geometry
- Developing roadway plans
- Performing pavement design

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Project Manager and EOR

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Project Manager and EOR

Years of Experience:

18

Education:

Bachelor of Science in Marine Engineering,
U.S. Merchant Marine Academy, 1981
Masters of Science in Civil Engineering,
University of Central Florida, 1992

Professional Registration:

Professional Engineer: FL #47736

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- ADA Requirements
- Alternative Analysis
- Collaboration with Engineering and Construction Teams
- Construction Cost Estimating
- Detention / Retention Pond Design
- Geometric Layout Design
- Geopak
- Interchange Design
- Intersection Reconfiguration Design
- Local Street Improvements
- MicroStation
- Pavement Design
- Project Management
- Public Meeting Participation
- Quality Control and Assurance
- Right-of-Way Acquisition
- Roadway and Highway Design
- Rural Highway Design
- Storm Drain System Design
- Subconsultant Coordination

Tony Alex, PE

Roadway/Traffic Design Engineer

Mr. Tony Alex, PE, is a Highway Design Engineer. He joined Lochner in 2002, bringing with him three years' professional engineering experience. He specializes in roadway design.

Mr. Alex has experience in planning and final design for a variety of roadway projects. His project background encompasses new corridors on new alignment, the reconstruction of multi-lane facilities and interchanges, the widening of rural highways and urban arterials, and city street improvements. He has also worked on project development and environment (PD&E) studies. His expertise includes vertical and horizontal geometric design, quantity and cost estimation, traffic control planning, traffic calming design, natural features inventory, permit application preparation, and storm drain design. Mr. Alex also has experience in GIS data analysis and mapping, intersection analysis, and AutoTURN analysis. He is proficient with MicroStation, GeoPak, and ArcGIS planning and design software and with MS Project, SureTrak, and Primavera project management software.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including structures, drainage and storm water pollution prevention plans

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Design Engineer responsible for:

- Developing sidewalk and traffic control plans

Providence Community Roadway Projects (Group N & Q), Tallahassee, FL, City of Tallahassee, Design reconstruction of Stuckey, Iamonia, McCaskill, Lake, Highland, and Holmes streets, including roadway, traffic control, drainage, utility coordination, public involvement, and permitting.

Design Engineer responsible for:

- Developing roadway and traffic control plans
- Assisting with development of all design components, including traffic control, signing and markings, drainage and permitting

Years of Experience:

12

Education:

Bachelor of Science in Civil Engineering,
University of Calicut, 1995

Masters of Science in Civil Engineering,
University of Alabama, 2003

Diploma in (Post Graduate) Construction
Management,

National Institute of Construction Management and
Research, 1999

Professional Registration:

Professional Engineer: FL #62465

Certifications:

Advanced Work Zone Traffic Control Plan Design

Areas of Expertise:

- Construction Phasing Plans
- Cost Estimate Development
- Cost Estimates and Specifications
- Engineering Quantity Take-offs
- GIS Analysis and Mapping
- GIS Data Research, Evaluation and Mapping
- Guardrail and Safety Barrier Design
- Interchange Design
- Local Street Improvements
- Maintenance-of-Traffic Evaluation
- Maintenance-of-Traffic Plans
- Plan Set Assembly
- Roadway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design
- Stormdrain Design
- Traffic Control Design
- Urban Arterial Design
- Utility Relocation Design

Scott Simmons, EI

Roadway/Traffic Design Engineer

Mr. Scott Simmons is a Highway Design Engineer. He worked with Lochner as an intern from 2001 and became a full-time member of the roadway engineering team in 2004.

Mr. Simmons has been involved in the roadway design process for a number of different facilities, including city streets, rural highways, urban arterials, and large interchanges. He has worked on several projects from the preliminary design stage right through to submittal of construction documentation. His project expertise encompasses the full spectrum of plans production, including horizontal and vertical alignment, cross sections, right-of-way, erosion control, and quantity estimation. He has also prepared numerous signing and pavement marking plans.

Mr. Simmons is proficient with MicroStation and Geopak, and is responsible for making electronic submissions of project deliverables. He has undertaken training in construction estimating, long-range estimating, specifications preparation, and Americans with Disabilities Act (ADA) requirements.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with sidewalk design
- Computation book quantities, and cost estimate

SR 61 (US 319) from Timberwolf Crossing to Georgia State Line, Leon County, FL, Florida Department of Transportation-District 3, This 3R project primarily consists of milling and resurfacing 8.5 miles of four-lane divided roadway, including drainage, bridge culvert, traffic analysis, signing and marking, utility coordination, and permitting.

Roadway Engineer responsible for:

- Assisting with roadway design
- Signing & marking plans
- Computation book quantities and cost estimate

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Roadway Engineer responsible for:

- Assisting with roadway design alternatives and intersection analysis
- Assisting with the Preliminary Engineering Report

Years of Experience:

10

Education:

Associates in of Arts,
Tallahassee Community College, 2001
Bachelor of Science in Civil Engineering,
Florida State University, 2004

Professional Registration:

Engineer In Training: FL #1100010209

Areas of Expertise:

- ADA Requirements
- Cost Estimates and Specifications
- Electronic Delivery and PEDDS Software
- Engineering Estimate Development
- Engineering Quantity Take-offs
- Geopak
- Horizontal and Vertical Alignment Design
- Intersection Design
- MicroStation
- Plan Set Assembly
- Presentation Material Preparation
- Roadway and Highway Design
- Roadway Widening and Reconstruction
- Rural Highway Design
- Signing and Striping Design

Natalie Zierden, PE

Senior Drainage Design Engineer

Ms. Zierden joined Lochner in 2010 with experience in drainage design and is thoroughly familiar with the stormwater design and permitting requirements of various environmental agencies and local, state, and federal governments. She is skilled in drainage modeling software including SWMM, StormCAD, PONDS as well as ICPR, WSPRO, UNET, HEC-RAS, ASAD and Hydrain. Ms. Zierden also has a thorough understanding of construction plans and documents, topographic surveys and she is knowledgeable of applicable rules and design codes.

Project Experience

CR 388 PD&E Study, Segments 1 and 2, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study and preliminary Design for the existing CR 388 roadway corridor and its extension on new alignment from US 98 in Walton County to SR 77 in Bay County.

Lead Drainage Design Engineer responsible for:

- Location Hydraulics Report Preparation
- Pond Siting

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Drainage Design Engineer responsible for:

- Gabion Mattress Design
- Quality Control for Hydraulic Calculations

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Project Manager and Lead Drainage EOR for:

- Stormwater treatment and attenuation
- Floodplain Mitigation Design
- Permit Coordination

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Lead Drainage Design Engineer responsible for:

- Bridge Hydraulics Report Preparation
- No-rise Certification Preparation
- Stormwater treatment design
- Permit Coordination

Years of Experience:

13

Education:

Bachelor of Science in Environmental Engineering,
University of Florida, 1994

Professional Registration:

Professional Engineer: FL #56072

Professional Engineer: GA #28350

Certifications:

Project Management Training

Safety Training

Stormwater Management Inspector Training

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Sewer Line Design
- Stormdrain Design
- Design Management
- Program Management
- Project Management
- Quality Control and Assurance
- Parking Lot and Site Layout Design
- Pavement Design
- Permit Coordination
- Value Engineering
- Site Grading Plans
- Government and Agency Coordination
- Public and Media Outreach Material Development
- Public Involvement Plan Development
- Stakeholder Facilitation and Workshops

Nick Lawrence, PE

Drainage Design Engineer

Mr. Lawrence joined Lochner in April 2010. His previous work experience includes permitting with state and local agencies, involving a range of civil design and specializing in drainage engineering. Permitting experience includes projects in Duval, St. Johns, Leon, Jefferson, and Wakulla counties, as well as with state agencies including SJRWMD, NFWWMD, FDEP, and FDOT.

His experience was acquired with a background in civil site design while gaining exposure to the layout, design, and production of construction documents for residential and commercial developments including utilities, stormwater, and roadways. He has competencies in most all areas of hydrologic and hydraulic design, analysis, and modeling. His extensive stormwater management facility design includes wet and dry detention, retention, and facilities using combinations. He is proficient in techniques of predicting stormwater runoff using SCS and Green-Ampt methodologies. He has had responsibilities for flood studies and large watershed modeling including calibration to recorded measurements and is experienced in hydrologic analysis of rainfall data for continuous simulations for periods of up to five years. His design experience has included soil analyses and classification for purposes of stormwater facility design.

Project Experience

Lonnbladh Road Drainage, Tallahassee, FL, City of Tallahassee, Provide drainage analysis, design, and permitting of 2-acre stormwater treatment pond for widening of roadway between Capital Circle and Olson Road.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Designing open stormwater conveyance systems
- Designing floodplain compensation areas
- Environmental permitting

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek.

Drainage Engineer responsible for:

- Designing stormwater management facilities
- Developing sediment and erosion control plans
- Drainage documentation
- Environmental permitting

Sidewalk Improvement Projects (Group B-4), Tallahassee, FL, City of Tallahassee, Design of sidewalks along Paul Russell, Meridian, Perkins, Gadsden, and Palmer streets, including drainage, utility coordination, and permitting.

Drainage Engineer responsible for:

- Developing storm sewer and open ditch conveyance systems
- Drainage documentation
- Environmental permitting

Years of Experience:

5

Education:

Bachelor of Science in Civil Engineering,
Florida State University, 2005

Professional Registration:

Professional Engineer: FL #70818

Areas of Expertise:

- Erosion Control Design
- Hydraulic Analysis
- Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Irrigation Coordination and Design
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Scour Analysis
- Sewer Line Design
- Stormdrain Design
- Water Line Design
- Cost Estimates and Specifications
- Drafting
- Engineering Quantity Take-offs
- Parking Lot and Site Layout Design
- Pedestrian Ramp Design
- Phased Construction Plan Design
- Plan Set Assembly
- Roadway Design
- Utility Relocation Design
- ADA Requirements

Kevin Connor

Senior Environmental Manager

Mr. Connor is a Senior Environmental Manager with H. W. Lochner. He has 16 years of experience providing a wide range of environmental and ecological services. His experience encompasses both upland and wetland habitats, and includes wetland delineations and jurisdictional determinations; habitat mapping and value assessments; wildlife surveys and relocations; mitigation design, construction, monitoring, and maintenance; and expert witness testimony. Mr. Connor is trained in performing wetland delineations in accordance with State of Florida and Federal (U.S. Army Corps of Engineers) guidelines. He is also experienced in environmental permitting and has attained ERP and Section 404 Permits for numerous roadways, mining, and other individual projects as well as Threatened and Endangered Species Relocation and Incidental Take Permits, U.S. Coast Guard Bridge Permits, and many local Environmental Permits. Mr. Connor is also experienced in the National Environmental Policy Act (NEPA) process and documentation as well as the Uniform Mitigation Assessment Method (UMAM) and its use in ERP and Section 404 permitting.

His hands-on field experience is also a key ingredient in the development and implementation of mitigation designs and remediation plans. He has aided in the development of mitigation designs and construction inspections for several mitigation sites in throughout Florida. While working on his Master's degree, Mr. Connor spent three years monitoring habitat requirements and behavior of gopher tortoises, a species designated as Threatened by the State of Florida. In addition, Mr. Connor participated in surveys to evaluate habitats for wildlife utilization and to document the presence of amphibians and reptiles throughout central and south Florida. While at Wake Forest University, Mr. Connor worked in an ecology lab where he participated in a long-term project monitoring plants for resistance to diseases.

Project Experience

118th Expressway, Clearwater, FL, PBS&J, Structural design services for the construction of a new urban expressway within the existing median of 118th Avenue. Lochner prepared a bridge development report for three structures (totaling over 6,000 feet in length and including post-tensioned straddle bents) and final design plans for one structure—a 1,600-foot bridge that incorporates the new Florida I-Beam. Lochner is also responsible for traffic control, construction staging, lighting design, environmental field work, and utility coordination.

Environmental Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

CR 388 PD&E Study, Bay & Walton Counties, FL, Florida Department of Transportation-District 3, Project Development and Environment (PD&E) Study for the existing CR 388 roadway corridor, and its extension on new alignment, from US 98 in Walton County to SR 77 in Bay County.

Environmental Lead responsible for:

- Performing field work, collecting environmental data including wetland assessments and threatened and endangered species surveys, and writing environmental reports including Wetland Evaluation Report and Endangered Species Biological Assessment.

FDOT D3 Misc Bridge Repair C-8R81, Chipley, FL, Florida Department of Transportation-District 3, Lochner developed Fracture Critical Checklists for two bridges in District 3. The checklists were utilized by FDOT inspectors to record findings.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Environmental Permit Lead responsible for:

- Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

SR 688 (Ulmerton Road), from West of Lake Seminole Bypass Canal to East of Wild Acres Road, Pinellas County, FL, E.C. Driver & Associates, Inc., The proposed improvements involve widening of SR 688 (Ulmerton Road), from west of the Lake Seminole Bypass Canal to east of Wild Acres Road, in Pinellas County, Florida. The length of the project is approximately 1.4 miles.

Environmental Permit Lead responsible for:

Performing wetland delineations, conducting wetland assessments, and leading environmental permitting effort.

Years of Experience:

16

Education:

Bachelor of Science in Biology,
Wake Forest University, 1992
Masters of Science in Zoology,
University of South Florida, 1996

Certifications:

Authorized Gopher Tortoise Agent
Stormwater Management Inspector

Areas of Expertise:

- Environmental Permitting
- Wetland Delineations and Assessments
- Wetland Mitigation Services
- Protected Species Surveys, Relocations, and Management Plans
- NEPA Documentation
- Habitat Systems Restoration and Design
- Expert Witness Services

Ryan Huebschman, PE

Traffic Design Engineer

Mr. Ryan Huebschman, PE, is a Traffic Engineer with 10 years' of experience. He has been a member of the Lochner team since 2003. Mr. Huebschman has performed traffic engineering and design tasks within a variety of transportation projects for municipal, county, and state transportation agencies, as well as private developers. He has produced signalization, signing, pavement marking, and/or lighting designs for more than 25 roadway projects – ranging from new residential streets to major expressway conversions. He has considerable experience in the area of traffic studies, ranging from intersection analysis to travel time studies. Mr. Huebschman is proficient with a range of traffic analysis and engineering software, such as CORSIM, Synchro, SimTraffic, HCS, Visual, and MicroStation.

Project Experience

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway which involves the reconstruction of approximately three miles of an existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, and is an emerging SIS Connector.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Traffic Engineer responsible for:

- Project management, signalization design, pavement marking design, signing design, and lighting analysis and design.

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities.

Supervisor (Task Mgr.), Transportation Engineer responsible for:

- Operational studies, planning studies, and transportation planning.

SR 83 (US 331) from US 98 to Choctawhatchee Bay, Walton County, FL, Florida Department of Transportation-District 3, Final design and preparation of construction plans for roadway, drainage, environmental permits, signalization, signing and marking, utility coordination, and traffic control plans. Project included 1.5 miles of widening from a two-lane rural arterial to a four-lane divided urban arterial of SR 83 (US 331) in Walton County, Florida.

Transportation Engineer responsible for:

- Signalization design.

SR 85 from General Bond Blvd. to N. of Okaloosa Regional Airport - Plans Update Phase,

Okaloosa County, FL, Florida Department of Transportation-District 3, Full design services for multi-lane reconstruction including a new interchange with grade separation at SR 123 and a new interchange adjacent to NW Florida Regional Airport in Okaloosa County, FL. Service includes defining the improvement and interchange types for the facility, and updating & re-evaluating the analysis from two prior PD&E Studies. SR 85 is an emerging SIS Connector.

Design Engineer responsible for:

- Lighting design.

US 98 PD&E Study (Traffic Planning), Okaloosa & Walton Counties, FL, Hatch Mott MacDonald, Inc., Traffic engineering services—data collection, operational and multimodal analysis, preparation of traffic study report—for project development and environment (PD&E) study on 12 miles of US 98 in Okaloosa and Walton counties, Florida.

Traffic Engineer responsible for:

- Traffic analysis.

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
Purdue University, 2001

Masters of Science in Civil Engineering,
Purdue University, 2003

Professional Registration:

Professional Engineer: FL #66919

Areas of Expertise:

- ADA Requirements
- Concept Development
- Design Study Reports
- Drafting
- Existing Conditions Analysis
- Interchange Design
- Intersection Analysis
- Intersection Design
- Lighting Design
- Long Range Planning
- Maintenance-of-Traffic Evaluation
- Pavement Design
- Plan Set Assembly
- Roundabout Design
- Signal Design
- Signing and Striping Design
- Single Point Urban Interchange Design
- Traffic Analysis
- Traffic Control Design
- Traffic Modeling
- Urban Arterial Design

Michael Dorweiler, AICP

Transportation Planner

Mr. Dorweiler serves as a Project Manager for H.W. Lochner, Inc. in the Transportation Planning and Traffic Operation Division. He has experience in transportation planning and engineering, including transportation systems planning, corridor studies, long-range planning, traffic impact analyses, and traffic operations. He has worked closely with Department of Transportation staff in corridor and level of service (LOS) analyses, project development and environmental (PD&E) studies, traffic impact studies, access management, and development of a congestion management system. He has managed projects that have included assessing existing and future traffic conditions using Highway Capacity software, FDOT LOSPLAN, Synchro, CORSIM, and VISSIM in determining conventional and non-conventional intersection and interchange concepts, including express lanes and continuous flow intersections. He has enjoyed fostering relationships with various planning, EMO, traffic operations, design, cities and counties staff on projects conducted through the States of Florida, Georgia, North Carolina, New Mexico, Utah, Arizona, Colorado, Wyoming, Montana, Idaho, and Nevada.

Project Experience

Florida Strategic Intermodal System Studies, Districtwide, FL, Florida Department of Transportation-District 7, On-call planning services and studies for Florida DOT's District 7 Strategic Intermodal System facilities. Project Manager responsible for contract management.

General Engineering Consultant (GEC), Florida Department of Transportation District One.

Task manager overseeing planning tasks under the contract, including developing a congestion management system process for the Florida Intrastate Highway System (FIHS)/Strategic Intermodal System (SIS) for the twelve counties within District One, defining a Rural Roadway Network for the six rural counties (De Soto, Glades, Hardee, Hendry, Highlands and Okeechobee), and tracking project priorities as part of the Work Program support.

SR 82/Daniels Parkway and US 41/SR 951 Continuous Flow Intersections, Lee and Collier Counties, Florida, Florida Department of Transportation FDOT District One. Task manager coordinating the review of an innovative intersection concept, designed to minimize intersection delays for left turning vehicles, based on VISSIM simulation of design hour traffic, under the GEC contract.

US 41 Corridor Safety Study, Manatee County, Florida, Florida Department of Transportation District One. Project manager determining existing operational deficiencies and recommending improvements to a seven-lane roadway section in south Manatee County, under the GEC contract.

General Planning Consultant, Florida Department of Transportation District Seven. Project manager overseeing a task based contract which to date has included development of the Tampa Bay Regional Planning Model (TBRPM) 2035 Needs network, review of comprehensive plans submitted to the District, review of project traffic reports, and assessment of design alternatives for modifying the existing Skyway Fishing Piers in Florida Department of Transportation Districts One and Seven.

General Planning Consultant, Manatee County, Florida. Project manager overseeing a contract for reviewing various DRIs and traffic impact studies in the County from a traffic operational analysis and impact perspective, based on DRI and county concurrency guidelines.

Planning Services Contract, Central Florida Regional Planning Council. Project manager for a contract in which PBS&J has been retained to provide transportation planning, environmental and graphic information systems (GIS) support and which to date has included development of a concurrency management system for over 30 local jurisdictions in central and southwest Florida.

Years of Experience:

18

Education:

Masters of Science in Civil Engineering,
Georgia Institute of Technology, 1994

Bachelor of Arts in Liberal Arts,

Gustavus Adolphus College, 1985

Master of City Planning in City Planning,

Georgia Institute of Technology, 1994

Professional Registration:

American Institute of Certified Planners #099555

Professional Organizations:

American Planning Association (APA)

Institute of Transportation Engineers (ITE)

Certifications:

Planner

Areas of Expertise:

- Access Management
- Comprehensive Plan Review
- Congestion Management Studies
- Corridor Studies
- Cost Estimating/Analysis
- Development of Congestion Management System
- DRI/Site Impact Analysis
- Feasibility Studies
- Land Use Planning
- Level of Service (LOS) Analyses
- Long-Range Planning
- MPO/Local Government Coordination
- Plans Review
- Project Development and Environmental (PD&E) Studies
- Signal Design
- SubArea Studies
- TIP/LRTP Coordination
- Traffic Control Design
- Traffic Impact Analyses
- Traffic Impact Studies
- Traffic Operations
- Transit Planning
- Traffic Reports
- Traffic Simulation
- Transportation Planning
- Travel Characteristics Surveys

Chuck Craycraft, PE

Senior Structural Design Engineer

Mr. Charles Craycraft, PE, is Lochner's Southern Regional Leader and one of the firm's Senior Vice Presidents. Mr. Craycraft joined Lochner in 1981, bringing with him five prior years' experience in the field of structural engineering. Mr. Craycraft has worked on numerous structural engineering projects in seven states, and has particular expertise in the analysis and design of prestressed concrete and structural steel bridges. He has experience in bridge design on every size and scale – from small creek crossings, to multi-level interstate interchanges, to major waterway crossings. Mr. Craycraft has been the Project Manager or Lead Structural Engineer for many high profile projects. These include the landmark Paris Pike project, which has become an industry standard for context sensitive design; several complex interchange reconstructions on I-75; and I-15 reconstruction under design-build delivery. Mr. Craycraft has also managed an on-call bridge repair and rehabilitation program for the Florida Department of Transportation's District 3 since 1990. This project has involved a number of specialized tasks, such as hurricane analysis of coastal bridges and the investigation of cathodic protection for prestressed concrete piles.

As the Southern Regional Leader, Mr. Craycraft heads a multi-disciplinary team of more than 140 engineers, technicians, inspectors, and administrative staff located in nine offices. In addition to managing financial, business development, administrative, and staffing operations, Mr. Craycraft is responsible for the quality assurance of many of the region's structural projects. Mr. Craycraft brings his wealth of experience to the ACEC-KY Transportation Design and Planning Committee, which liaises between the Kentucky Transportation Cabinet and the engineering community to enhance design and planning in the state.

Project Experience

District Three Miscellaneous Design Projects, , FL, Florida Department of Transportation-District 3,
Program Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments

Districtwide Miscellaneous Minor Design, Leon County, FL, Florida Department of Transportation-District 3,

Lead Structural Design Engineer responsible for:

- Providing structural engineering for various projects.

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Principal-in-Charge responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges

FDOT District 3 Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Supervisor (Task Mgr.) and Project Manager responsible for:

- Overseeing miscellaneous bridge repair design assignments and supervising Asset Management and inventory of bridges.

Berea College Traffic Study, Berea, KY, Berea College, Traffic study to determine potential impacts of closing Short Street located behind historic Boone Tavern on the Berea College Campus in Berea, Kentucky. Tasks included traffic counts, modeling and analysis.

Principal-in-Charge responsible for:

- Overseeing traffic study to determine potential impacts of closing Short Street, supervising traffic counts and modeling, and overseeing presentations to city council and city planning commission.

Years of Experience:

29

Education:

Bachelor of Science in Civil Engineering,
University of Missouri, 1985

Professional Registration:

Professional Engineer: FL #40118

Certifications:

Traffic Noise Analysis

Water Quality Impact Evaluation

Areas of Expertise:

- Alternative Development and Analysis
- Concept Development and Reports
- Constructability Review
- Coordination with Environmental, Design, and Construction teams
- Cost Estimate Development
- Design Study Reports
- Engineering Quantity Take-offs
- Environmental Specification Compliance
- Environmental Studies
- Erosion Control Design
- Existing Conditions Analysis
- Freeway Design
- Government and Agency Coordination
- Hydraulic Analysis and Hydraulic Design
- Hydraulic Modeling
- Hydrology
- Local Street Improvements
- Natural Resource Evaluation
- Parking Lot and Site Layout Design
- Permit Coordination
- Phased Construction Plan Design
- Plan Reviews
- PS&E Plans
- Quality Control and Assurance
- Retention / Detention Pond Design
- Riverbank Slope Stabilization
- Roadway Widening and Reconstruction
- Rural Highway Design
- Scour Analysis
- Sewer Line Design
- Shop Drawing Review
- Site Grading Plans
- Stakeholder Committee Group Coordination
- Stormdrain Design

Doug Burton, PE, PMP

Structural Design Engineer

Mr. Doug Burton, PE, is a Structural Project Manager in Lochner's Lexington, Kentucky, office. Mr. Burton joined Lochner in 2003 with two prior years of structural engineering experience within the transportation industry. Over his career, Mr. Burton has been involved in the design and analysis of bridges and culverts in Florida, North Carolina, Utah and Kentucky. His experience includes the design of concrete, prestressed concrete, steel and steel box girder bridges for many different highway facilities. Mr. Burton also has considerable expertise in structural analysis and load rating. Notably, he conducted analysis of the 13,000-foot Bonner Bridge, a connection between the North Carolina mainland and the Outer Banks, to develop a comprehensive repair and rehabilitation plan for the structure. Mr. Burton also has experience in the inspection of bridges, overhead signs and high-mast lighting structures.

Mr. Burton has held lead design and project management roles on many of the Lexington office's structural projects. He was the Lead Structural Design Engineer for Section 4 of the high profile Ohio River Bridges project. As well as overseeing the design of five bridges and multiple retaining walls, Mr. Burton was involved with the project's public participation and context-sensitive design initiatives. Mr. Burton is actively involved with a number of professional engineering associations, and has held leadership roles within the Kentucky Society of Professional Engineers' (KSPE) and the American Society of Civil Engineers' (ASCE) Bluegrass sections.

Project Experience

Districtwide On-Call bridge design, Chipley, FL, Florida Department of Transportation-District 3, Providing on-call bridge design services for District 3.

Structural Design Engineer responsible for:

- Structural design for on-call contract for bridge design services.

On-Call Bridge Engineering & Design (2001-2004), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Performing bridge load ratings using computer programs MDX and BARS.

On-Call Bridge Engineering & Design (2002-2007), Florida Department of Transportation-District 3, Chipley, FL, Florida On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Structural Design Engineer responsible for:

- Developing plans/design for bridge rehabilitation projects, expansion joints, bearing pads, scour mediation, maintenance painting, bat guano cleaning, and development for replacement of a PCIB after vehicular collision.

On-Call Bridge Engineering & Design (2005-2009), Florida Department of Transportation-District 3 Chipley, FL, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Manager responsible for:

- Analyzing existing bridges for susceptibility to scour.

Natural Bridge Road and SR 20 Bridge Replacements, Leon County, FL, Florida Department of Transportation-District 3, Replacement of the existing structurally deficient bridges at Natural Bridge Road over a branch of the St. Marks River and SR 20 (Blountstown Hwy) over Gum Creek. Replacement bridge at SR 20 consists of Florida prestressed concrete beams supported on concrete end bents, utilizing square prestressed concrete piles. Replacement bridge at Natural Bridge Road consists of concrete flat slab bridge supported on concrete bents, utilizing concrete drilled shafts.

Lead Structural Design Engineer responsible for:

- Overseeing design of bridge replacements

Years of Experience:

10

Education:

Bachelor of Science in Civil Engineering,
University of Kentucky, 2000

Masters of Science in Civil Engineering,
University of Kentucky, 2001

Professional Registration:

Professional Engineer: KY #23970

Professional Engineer: NC #036458

Professional Engineer: FL #62803

Professional Engineer: UT #2233712-2202

Professional Organizations:

American Society of Civil Engineers

Kentucky Society of Professional Engineers

Certifications:

Project Management Professional

Areas of Expertise:

- Project Management
- Cost Estimates and Specifications
- Design Study Reports
- Maintenance of Traffic Plans
- Bridge Design
- Bridge Inspection and Rating
- Large Box Culvert Design
- Noise Wall Design
- Pedestrian Overpass Design
- Retaining Wall Design
- Structural Design

Doug Hershey, PE

Structural Design Engineer

Mr. Doug Hershey, PE, is a Structural Engineer. He joined Lochner in 2005, bringing with him five years' prior structural engineering experience within the transportation industry. Mr. Hershey has worked on structural design projects in Florida, Ohio, and Utah. His bridge engineering experience encompasses substructure and superstructure design for a wide variety of highway bridges: curved steel box girder, steel plate girder, prestressed concrete beam, spliced post-tension concrete beam, and concrete flat slab structures, as well as box culverts. Mr. Hershey also has design experience in Accelerated Bridge Construction (ABC), including Self-Propelled Modular Transport (SPMT) techniques. Notably, he was part of the engineering team for the ABC and SPMT design of two I-80 bridges in Salt Lake County, Utah. In addition to bridge structures, Mr. Hershey has designed retaining walls, sign structures, mast arms, and strain poles. Mr. Hershey has field experience in bridge inspection. He has also calculated load ratings for numerous bridges and box culverts. He is proficient in the use of a wide range of engineering software, such as MicroStation, MathCAD, STAAD, Conspan, RC-Pier, CONSPLICE, MDX, and BARS-PC.

Project Experience

Florida DOT District 3 On-Call Bridge Engineering & Design (2005-2009), Chipley, FL, Florida Department of Transportation-District 3, On-call bridge engineering tasks for Florida DOT's District 3, including innovative coastal bridge and cathodic protection analyses.

Project Engineer responsible for:

- LRFR load rating of the 3-span spliced post-tensioned main span using CONSPLICE.

Capital Circle NW/SW, Tallahassee, FL, Blueprint 2000, Project Development & Environment Study and Final Design of the roadway, drainage, structures, permits, signalization, lighting, signing and marking, utility coordination, and traffic control plans for reconstruction of over three miles of existing two-lane rural arterial roadway to a six-lane divided urban arterial roadway, including bridges over CSX Railroad and Gum Creek.

Lead Structural Design Engineer responsible for:

- Designing & load rating two 3-span cast-in-place flat slab bridge superstructures
- Checking the design of the end bents and intermediate bents
- Plan production and coordination of CADD staff
- Designing nine mast arms (5 standard & 4 non-standard)
- Engineer-of-Record for twin single span prestressed AASHTO girder bridges over CSX Railroad with approximate spans lengths of 94 feet and twin reinforced concrete flat slab bridges over Gum Creek consisting of three 30 foot spans.

District Wide Traffic Design Studies, District Wide, FL, Florida Department of Transportation-District 7, Five-year term agreement to provide traffic engineering services to the Florida Department of Transportation (FDOT) District 7 on an on-call basis.

Lead Structural Design Engineer/EOR responsible for:

- Designing steel strain poles at the intersection of SR44 and Highview Avenue in Citrus County, FL.

Haines Road (CR 691) from US Hwy. 19 to I-275, Clearwater, FL, Pinellas County Department of Public Works, This project entailed reconstruction and rehabilitation of 1.6 miles of urban roadway. Work included addition of new sidewalks, curb and gutter and a close drainage system, Pinellas County Department of Public Works, Lealman, Florida.

Lead Structural Design Engineer/EOR responsible for:

- Designing mast arm structures at 54th Avenue North / 28th Street North intersection, providing bus bench pad and gable shelter details.

Roosevelt Boulevard/CR 296/ I-275 Connector, Clearwater, FL, Florida Department of Transportation-District 7, Design two of the six phases planned for CR 296, a major new limited access connector to I-275 in Pinellas County. This project addressed Phase 2, which will extend CR 296 to the west to the vicinity of 40th Street, and Phase 3, which will connect CR 296 with Roosevelt Bld. across I-275, and provide a northbound to westbound connection between the interstate and CR 296.

Structural Design Engineer responsible for:

- Checking the beam and diaphragm design, load rating, and pier design and design of the end bents.

Years of Experience:

11

Education:

Masters of Science in Civil Engineering (Structural Emphasis),

University of Toledo, 2001

Bachelor of Science in Civil Engineering,

University of Toledo, 2000

Professional Registration:

Professional Engineer: FL #63325

Professional Engineer: OH #69633

Professional Engineer: UT #7437470

Areas of Expertise:

- Bridge Design and Load Rating
- Steel Box and Steel Plate Girder Design
- Prestressed Concrete Girder Design
- Spliced, Post-Tensioned Concrete Girder Design
- Overhead and Cantilever Sign Structure Design
- Mast Arm Design
- Strain Pole Design
- Retaining Wall Design
- Shop Drawing Review



**James E. Melcher, P.S.M.
Project Surveyor**

Nobles Consulting Group, Inc.
2844 Pablo Avenue
Tallahassee, Florida 32308
Phone: (850) 385-1179

January 1997 to present

Registrations:
Florida No. 6159

Education:
B.S. Geography
Florida State University
1992

**Professional
Affiliations:**
Florida Surveying &
Mapping Society (FSMS)

Summary of Qualifications:

Mr. Melcher has over fifteen years of experience in survey data processing and right of way mapping. As a survey project manager in NCG's Tallahassee office, he is responsible for the preparation and review of right of way maps, title searches, legal descriptions, field data and control surveys for FDOT projects. Mr. Melcher has an extensive background in the primary analysis of field data and is very proficient in CAICE, Microstation and AutoCad formats. He also serves as designer/CADD Technician for highway and bridge design projects at NCG.

Project Experience:

Capital Cascades Trail Segments 3 and 4, Tallahassee, Florida. Provided topographic survey for design of multimodal trail segments along 4 miles of Tallahassee's major drainage feature. Project included establishment of horizontal and vertical control points and a referenced project baseline for tie in with other City of Tallahassee projects. A complete 3-D topographic survey of the St. Augustine Branch and Central Drainage Ditch was completed. Detailed surveys of 21 existing drainage structures / bridges along the corridor were undertaken. Several offsite parcels for pond / wetland creation were located. A utility survey and several tree surveys were also scoped.

FP 222589, 222590, 222593 SR 8 (I-10) from Rest Areas to East of SR 261 (Capital Circle NE) Leon County, Florida. Provided full 3D design survey of I-10 corridor, 3 major interchanges and side streets for the widening of I-10 to six lanes. Some R/W acquisition was involved. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety concerns. Approximately 13.5 miles of corridor.

SR263 (Capital Circle NW) from S of SR 10 (US 90) to SR 8 (Interstate 10), Leon County, Florida (FP 2197221). Provided full 3D design and Right of Way Control Survey for in-house design by District 3. The 2.2 mile project consisted of a 300 foot wide swath including the existing right of way of SR 263 for widening from 2 lanes to 6 lanes with a transition area at both north and south ends. Additional work consisted of the stakeout and monumentation of newly acquired right of way.



SR 369 (U.S. 319) from East Ivan Road to the Leon County Line Wakulla County, Florida (FP 2204951). Provided full 3D design survey and Right of Way Control Survey for multilane reconstruction and property acquisition for a 5.7 mile corridor. Included preparation of Right of Way Control Survey maps and Formal Jurisdictional Wetland Determination Maps.

SR 10 (US 90 / West Tennessee Street) from SR 263 to Ocala Road, Leon County, Florida (FP 4063331). Full 3D design survey for 3-R project including major median work and drainage redesign at CSX RR overpass within a 3.3 mile urban project. Additional survey services included preparation of Right of Way

Gaines Street Realignment from Jackson Bluff Road to Monroe Street (SR 63 / US 27) (FP 2197701). Control for LAMP project and conventional topography for SR 371 in Leon County, control survey and R/W mapping.

SR 83 (US 331) from Choctawhatchee Bay Bridge to 0.5 Mi. S of Freeport Walton County, Florida (FP 2206791). Full 3D Design and Right of Way Control Survey for road widening and property acquisition including preparation of Right of Way Control maps and TIITF easements for approximately 3.3 miles of corridor.

SR 85 (Eglin Parkway) from Richbough Avenue in Shalimar to Wolverine Avenue in Valparaiso, Okaloosa County, Florida (FP 4063271). Full 3D design survey for milling and resurfacing / roadway improvements for 8.06 miles of multilane highway. Use of conventional survey paired with Low Altitude Aerial Mapping because of crew safety.

SR 20 (US 27 / Apalachee Parkway) from SR 261 to the Jefferson County Line, Leon County, Florida (FP 4090251). Full 2D / partial 3D design survey for 9.39 miles of multilane corridor roadway improvements.



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Website: www.dddsinc.com

PROFESSIONAL RECORD

Jason D. Hill, PSM
Survey Project Manager

Jason Hill has 23 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 16 years. His experience encompasses: design surveys; right-of-way surveys; horizontal and vertical control surveys, topographic surveys; including utilization of electronic field book; jurisdictional delineation; and geodetic and construction surveying. As a Project Manager he has the responsibility of managing multiple projects, ensuring detailed attention and quality assurance to each one. His duties include: client contact; scheduling, manpower allocation; quality control and project budgets. Mr. Hill has worked with various city and county governments, the Florida Department of Transportation, and a variety of private sector clients.

KEY PROJECTS

FDOT 3 SR 61/US 319 (Leon) 4246091 from Timberwolf Crossing to the Georgia State Line: Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, 2011, Woolpert, Tallahassee, FL: Mr. Hill is the Project Manager for this project which consists of sixteen areas covering twenty-five square miles, which require location, identification and mapping of stormwater infrastructure. This is the second phase of a complete city-wide stormwater infrastructure inventory mapping project of the City of Tallahassee's stormwater WFR.

FDOT 3 Bellview & Bauer Bridge in Escambia County: Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 CR10 US 90 (Walton) 4246131 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. Tasks included 2D planimetrics using photogrammetry.

FDOT 3 SR20 (Leon County) 423067-1 Jason is the Project Manager for this project for which 3DS is providing surveying services for the 3R project These services included typical 3R cross-section and data collection of utilities, drainage and 2D planimetrics

FDOT 3 SR30A (Bay County) 219312-1 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 3D topographic survey.

City of Tallahassee/Blueprint 2000 Capital Circle NW/SW: Mr. Hill provided surveying services for the full topographic design survey of 250 feet of existing and proposed right-of-way along with complete right-of-way mapping for acquisition along the entire corridor from 500 feet south of Tennessee Street to Orange Avenue in Leon County, Florida. This project also includes wetlands and boundary surveys for several pond sites along the corridor.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Holmes 4252772 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project. These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 Group 10-7 Bridge Projects (Leon) 424609-1-32-01 Jason was the Project Manager for this project for which 3DS provided surveying and mapping services for design and construction for Bridge replacement. These services included an topographic survey and preparing a Control Survey map.

FDOT 3 SR8 (I-10) Walton 4252771 Jason was the Project Manager for this project for which 3DS provided surveying services for the 3R project These services included an 2D topographic survey including drainage structures and cross sections.

FDOT 3 SR 291 (Escambia) 4153781 Jason was the Project Manager for this project which included boundary location for the preparation of a control survey.

PROFESSIONAL ACHIEVEMENTS

Professional Surveyor and Mapper, State of Florida, Certification No. 6008

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Myron L. Hayden, Ph.D., P.E. **Geotechnical Engineering**

Professional Credentials:

Bachelor of Science, Civil Engineering, Tri-State University, 1974
Master of Science, Civil Engineering, Oklahoma State University, 1975
Doctor of Philosophy, Civil Engineering, Oklahoma State University, 1978
Professional Engineer in Florida
General Contractor in Florida

Professional Organizations:

American Society of Civil Engineers - Vice-President of North Florida Region - President of Tallahassee Chapter - Engineer of the Year
Florida Engineering Society - Vice-President of North Florida Region - Past President of Big Bend Chapter - Elected Fellow - Engineer of the Year
American Society of Transportation Engineers
American Public Works Association
National Society of Professional Engineers
Transportation Research Board (National Academy of Sciences) - Former National Committee Chairman

Special Qualifications:

- Over 30 years of Geotechnical design and investigation experience including roadway studies, bridge designs, and groundwater control
- Highly-skilled consensus builder on controversial projects
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 18; Years Experience with Other Firms: 16

Relevant Experience:

Districtwide Miscellaneous Geotechnical Consultant to the Florida Department of Transportation, District 3, Chipley, FL – Provides miscellaneous services to the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

SR 79, Washington County, FDOT District 3, Holmes and Washington County, FL (FDOT FPN 220773-32-01, Sections 3, 5, 6, 7 and 8) – Conducted the geotechnical investigation for five (5) sections of the SR 79 reconstruction and widening project in Washington and Holmes County, Florida. The geotechnical design for the roadway included asphalt coring, parameters for pavement design, analysis for culvert extensions, and recommendations for swale exemptions and stormwater ponds. Also included in the project was the bridge and embankment design for the SR 79 bridge replacement over Holmes Creek and the bridge replacement over Reedy Branch Creek.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

Thomas H. Hayden, P.E. Geotechnical Engineering

Professional Credentials:

Bachelor of Science, Civil Engineering, University of South Florida, 2003
Professional Engineer in Florida

Professional Organizations:

American Society of Civil Engineers – 2008 President Tallahassee Chapter – 2008-2010 FAMU/FSU College of Engineering Student Chapter Liaison – 2009 Young Engineer of the Year

Florida Engineering Society – 2008-2009 K-12 Education Committee - 2006-2008 Math Counts Committee – 2009 Florida Engineering Leadership Institute Graduate

Geotechnical Materials Engineers Council

Special Qualifications:

- Over 10 years of Geotechnical design and investigation experience, including roadway studies, stormwater design, pavement design, and materials engineering
- Familiarity of FDOT Geotechnical Standards
- CTQP/ACI Certifications: Aggregate Field and Laboratory Testing Technician, Asphalt Plant Technician – Levels I and II, Field Sampler Technician, LBR Technician, Concrete Field Technician – Levels I and II, Concrete Laboratory Technician – Level 1, Quality Control Manager, Concrete Transportation Construction Inspection, Advanced Maintenance of Traffic Inspector and FDEP Erosion Control Inspector

Years Experience with EGS: 7; Years experience with other firms: 3

Relevant Experience:

GPI Southeast, Inc., Proposed Longleaf Development, Stormwater Treatment Facilities, Wakulla County, FL – Performed subsurface investigation of the proposed Longleaf Development. Provided client with subsurface conditions, encountered groundwater and estimated "normal" seasonal high groundwater, design infiltration rates, and anticipated construction considerations.

Carollo Engineers, Lake Bradford Road Wastewater Treatment Facility, Tallahassee, FL – Performed subsurface investigation of the proposed roadway and parking improvements at the Lake Bradford Wastewater Treatment Facility. Provided the client with design and reuse recommendations for each material STRATA encountered throughout project.

Florida Department of Transportation, District 3, SR 97 Pavement Core and Condition Survey, Escambia County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 97 in Escambia County, Florida. Provided the District with the types of pavement failure encountered, anticipated construction considerations, and design recommendations.

Florida Department of Transportation District 3, SR 61 Pavement Condition Survey and Design, Leon County, FL – Performed a detailed Pavement Core and Condition Survey of the existing roadway along SR 61 (North Monroe Street) at the proposed Lake Jackson Eco-Passage. Provided the client with compaction characteristics of the existing embankment material as well as design recommendations for the proposed pavement.

EGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC

Derwood C. Sheppard, P.E.
Engineer

Professional Credentials:

Bachelor of Science, Civil Engineering, Florida State University, 2004
Professional Engineer - Florida

Professional Organizations:

American Society of Civil Engineers, Big Bend Chapter, Florida Engineering Society

Special Qualifications:

- Geotechnical design and investigation experience, including roadway studies, bridge designs, and stormwater management
- Familiarity of FDOT Geotechnical Standards
- Familiarity of Construction Requirements and Techniques

Years Experience with EGS: 7

Relevant Experience:

District-wide Miscellaneous Geotechnical Consultant to the FDOT, District 3 – Assisted with the design of various transportation related projects for the Florida Department of Transportation under a General Service Contract. The tasks have included the Geotechnical analysis for roadway design, culvert extensions, bridge foundations, bridge repair, mast arm installation, slope evaluations, base failures, lane additions, and stormwater pond designs.

Miscellaneous Scour Geotechnical Studies for Scour Protection, FDOT District 3 – Assisted with the geotechnical studies for the design of bridge protection and scour countermeasures. The countermeasures included crutch bents, riprap abutment protection, fender systems, stabilization of causeways, riprap blankets, and sheet pile walls. Typical examples of projects include SR 30 over Pensacola Bay, SR 10 over Black Water River, SR 30 over Choctawhatchee River, SR 30 over Ochlocknee Bay, SR 8 (I-10) over Little River. The services included conducting a file search and evaluation of past geotechnical investigations, pile driving records, and field notes. Services also included Post Design services to assist with constructability questions.

SR 30 (US 98) over the St. Marks River Bridge Replacement, FDOT District 3, Wakulla County, FL (FDOT FPN 220499-1-52-01) - Assisted with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to the bridge replacement roadway upgrades and widening, muck studies and temporary construction methods were investigated and designed.

SR 79 over Holmes Creek Bridge Replacement – FDOT District 3, Holmes County, FL (FDOT FPN 407167-1-52-01) – Duties included assisting with the geotechnical studies for design of the new bridge. Duties included evaluating various foundation alternatives and developing recommendations concerning the most cost-effective choice. In addition to drilled shafts, because of the deep scour at the channel locations, a complex foundation consisting of both drilled shafts and pipe piles was needed to address the constructability issues because of the deep scour known to exist. In addition, non-traditional scour countermeasures were required for the abutments to reduce the potential scour and ensure the bridge abutments would be stable during typical storm surges.



HSA Consulting Group

MICHAEL L. CLELAND, AICP, PTP
TRANSPORTATION MANAGER

Education: Master of Public Administration, University of West Florida
Bachelor of Science in Natural Resources, Ball State University
Member, American Institute of Certified Planners
Member, American Planning Association (APA)

Continuing Education Courses

FDOT Site Impact Workshop
FDOT Design Traffic Workshop
Highway Capacity Analysis Workshop/McTrans Center (University of Florida)
Florida Standard Urban Transportation Model Structure (FSUTMS)
FDOT Level of Service Short Course
FDOT Access Management, Location, and Design Workshop

Summary of Qualifications

Mr. Cleland has over twenty years experience in transportation planning in both the public and private sectors. His experience includes transportation planning and traffic analysis, transit planning, and comprehensive planning. For three years of post-graduate employment prior to joining HSA in 1991, Mr. Cleland served on the staff of three MPO's in northwest Florida, and for one additional year he was a Planner for Baskerville Donovan Engineers in Pensacola. He has extensive experience managing large-scale data collection projects for the Florida Department of Transportation, particularly for traffic and roadway data.

Mr. Cleland has had production management and coordination responsibility on HSA's traffic data collection and analysis programs since joining the firm in 1991. His experience includes managing large scale, multi-years traffic counting inventory programs for the FL Department of Transportation at the Districtwide and Statewide levels. His expertise in traffic forecasting and level of service analysis is well known throughout the State of Florida, as well as his knowledge of traffic operations studies and techniques, including No Passing Zone Studies, Origin and Destination Studies, and detailed Arterial Capacity Analysis consistent with FDOT procedures. In recent years, Mr. Cleland has directed the field operations of multiple No Passing Zone Studies for 3R Design projects throughout the 16-county area of District Three.

Related Project Experience

Districtwide Annual Traffic Counting Program - 1992, 1996 – 2003 - Mr. Cleland served as Project Manager for three multi-year, multi-task work order contracts for conducting annual inventory of traffic counts for FDOT District III, including management of sub-consultants. Services consisted of conducting annual volume and classification traffic counts throughout the 16-county area of District Three. Up to 2000 urban and rural 24- and 48-hour volume and classification counts were conducted each year. HSA also provided planning support services such as Design Traffic Reports.

Selected No Passing Zone Studies

Mr. Cleland has led the field data collection and analysis efforts for multiple No Passing Zone Studies in recent years, particularly for Resurfacing projects throughout FDOT District Three. Examples include the following:

- CR 368 (Liberty / Wakulla Counties) from CR 67 to CR 375 – 3.951 miles
- SR 89 (Santa Rosa County) from CR 178 to Jay City Limits – 7.442 miles
- SR 69 (Jackson County) from SR 10 to SR 71 – 15.577 miles
- SR 71 (Jackson County) from Calhoun County line to Malloy Plaza Rd – 8.786 miles
- SR 20 (Leon County) from Ochlockonee River Bridge to SR 263 – 19.293 miles
- SR 59 (Jefferson County) from SR 20 to Main St – 5.462 miles
- SR 77 (Washington County) from SR 273 to Jackson County line – 2.831 miles
- SR 10 (Walton County) from Country Club Dr to Holmes County line – 6.558 miles



HSA Consulting Group

Michael L. Cleland, AICP, PTP

Escambia County Engineering Department (2004 – present) – Mr. Cleland successfully manages this ongoing traffic data inventory for HSA. On an annual basis, 48-hour speed counts, 48-hour volume counts, 48-hour classification counts, and eight-hour turning movement counts are assigned through multiple Task Work Orders with tightly specified timeframes.

Design Traffic Analysis Reports (DTR's) for the following FDOT roadway projects: SR 390 - Bay County, SR 30 - Santa Rosa County, SR 10 - Escambia County, SR 295 - Escambia County, SR 291 - Escambia County; SR 79 - Bay County, and so on. Mr. Cleland Also reviews and updates the DTR's of other consultants for the District.

Eglin AFB Master Transportation Plan (Sub-Consultant to STV)

Base-wide Traffic Counting Program, 17,000 Employee O&D Study, and Transportation Plan Development

MICHAEL L. CLELAND, AICP, PTP

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Design Traffic Projections for Multiple Alternatives

US98 PD&E Study–Naval Live Oaks to Portside Drive -Traffic Technical Memorandum/Highway Capacity Analysis for Multiple Alternatives

District Three Land Planner /Business Damage Estimate Support for Multiple Contracts since 1995

Mr. Cleland has led efforts throughout the District which involved developing site inventory data collection plans, access management assessments, driveway and drive-through window queuing analysis, parking demand/ turnover studies.

Seasonal Factors Study – This study reviewed the components of all seasonal factor categories utilized in District 3 and recommended changes to the composition and application of the categories.

Santa Rosa Island Authority (November 2004 – present) – Mr. Cleland provides management and oversight of the continuous volume counts for the entering lanes at the Bob Sikes Bridge toll booth. There are two to four entering lanes open at any given time. Data is downloaded weekly and submitted to the Island Authority. The counters and tubes are monitored and replaced on a regular basis.

Miscellaneous Engineering Firms – HSA collects traffic data for site impact studies, PD&E studies, and Design Traffic development for multiple transportation engineering firms throughout the region on an as-needed basis.

Roadway Characteristics Inventory Consultant - Florida Department of Transportation District III – Mr. Cleland has assisted Ms. Gay Smith in the management of Prime Contracts for RCI since 2000. Mr. Cleland has significant experience with traditional roadway inventory tasks, having managed RCI data entry into IMS, creation of straight line diagrams, and reviewing SLD's created by other consultants.

Hurricane Floyd Evacuation Study - Project completed for the Governor's Hurricane Evacuation Task Force (2000), analyzed TTMS volumes in relation to the hurricane's location at given points in time.

Multi-Modal Corridor Planning Analysis - HSA conducted case studies for two arterials, and analyzed automobile, transit, bicycle, and pedestrian levels of service using innovative analysis methods. The project was conducted for the FDOT Central Office (Systems Planning).

Florida Freight Model - HSA is part of a consultant team developing a statewide computer model for forecasting freight movements. Mr. Cleland compiled data and provided various types of analysis.

Pensacola Urbanized Area Transportation Study (PUATS) 2020 Update (Sub-Consultant) for the Pensacola Metropolitan Planning Organization (MPO). Mr. Cleland developed a database of roadway segments, which included roadway characteristics for number of lanes, level of service, jurisdiction, functional classification, inclusion on the FHHS, etc.



HSA Consulting Group

THOMAS R. BEDELL

Director of Traffic Engineering

Academic Background Pratt Institute, Brooklyn, NY - School of Electrical Engineering
State University at Farmingdale, NY - Computer Science Studies
Brooklyn Polytechnic Institute - Part-time Studies
Fellow-Institute of Transportation Engineers
Member-ITE Urban Traffic Engineers Council
Member-Florida Section ITE
Member-Alabama Section ITE
Member-FSITE Subcommittee on Residential Traffic Control
Member-Florida Engineering Society
Professional Engineer-State of New York #56945, issued 9/7/79
Professional Engineer-State of Florida #28422, issued 10/5/79
Professional Engineer-State of Alabama #19176, issued 11/30/92
Professional Traffic Operations Engineer (PTOE) Certification, Issued 2/99

Professional Experience

As Director of Traffic Engineering for HSA since 2000, Mr. Bedell is responsible for engineering analysis, plan documents, and engineering drawings for traffic signalization including installation of loop detection systems. As part of his work design and construction inspection of TTMS and PTMS sites are included. Recent projects for which he has provided QA/QC and project oversight for HSA include:

Statewide General Traffic Consultant Contract – Sub-Consultant to F.R. Aleman

Mr. Bedell provided project oversight for the inventory, inspection, repair and upgrade of telemetered traffic monitoring sites throughout FDOT District Three. He was responsible for the production and quality oversight for HSA on this contract. As a result, he developed solid working relationships with F.R. Aleman staff in this endeavor.

Statewide General TranStat Consultant Contract – Sub-Consultant to Marlin Engineering

Mr. currently provides oversight and quality control for inventory, inspection and repair of telemetered traffic monitoring sites throughout FDOT District Three and assists with sites in District Two as needed.

Districtwide Miscellaneous Counts and Projections, Florida Department of Transportation District 3 (1996 - 2003). Mr. Bedell provided project oversight for HSA on the volume and vehicle classification counts throughout the District (16 counties) for the annual traffic count inventory. Included were completion of counts for Urbanized Area Long-Range Plan Updates, and data collection for numerous Design Traffic Reports.

Miscellaneous Traffic Volume and Intersection Turning Movement Counts for Project Development Studies and Design Projects for HDR, PBS&J, Kimley Horn, Hatch Mott MacDonald, DRMP and so on.

Panama City to Dothan Limited Access Connector – Existing Traffic Capacity Analysis & Projections

US98 PD&E Study – Naval Live Oaks to Portside Drive – Traffic Technical Memorandum/Highway Capacity Analysis

As Senior Traffic Engineer for the City of Pensacola from 1980 to 2000, Mr. Bedell completed the following:

- Developed procedures for identifying and analyzing high accident locations and established a continuing traffic count program for the City of Pensacola Florida.



THOMAS R. BEDELL,
P.E., PTOE

- Design, construction supervision and programming of signal system consisting of 48 intersections. SOAP and Passer II were used for critical intersection and arterial analysis
- TRANSYT 7, through leased time at the University of West Florida, were used for network simulation & optimization. This work was completed with TRANSYT 7F upon its release.
- Technical review of the feasibility study for the *Areawide Escambia County Traffic Signal System* which will include approximately 120 signals in Escambia County and the City of Pensacola.
- Technical coordination with the Florida Department of Transportation and JHK & Associates in the design and implementation of an *Areawide closed loop traffic signal system* to include approximately 130 signals in the City of Pensacola and Escambia County.
- Project Manager for five highway safety sub grants which included a microcomputer package, *microcomputer enhancement package, traffic counters, a thermoplastic application system, and a video logging system* for a sign inventory. The sign inventory entails the video logging of the city's approximately 8300 traffic signs. This data contains type, location, and condition and is entered into a computer database, using dBase 3+, for historical information and establishment of a maintenance replacement program.
- CBD Signal Timing Study in Pensacola, FL
- *Cervantes Street Study* under the GASCAP Program of the University of Florida-1986, Pensacola, FL
- 12th Avenue Signal Timing Study-1988
- *Cervantes Street Closed Loop Signal System Design* in Pensacola, FL -1992
- 12th Avenue Closed Loop Signal System Design in Pensacola, FL -1987
- *Signing, Pavement Markings, Channelization; Palafox Street Re-construction* in Pensacola, FL
- *Cervantes & Perry Signal Design* in Pensacola, FL -1986
- *Barrancas & Main Street Signal Design* in Pensacola, FL -1987
- *Palafox Street Signal Reconstruction* in Pensacola, FL -1992
-

As City Traffic Engineer for the City of Pensacola, Mr. Bedell was directly responsible for the design, installation, and maintenance of sub-systems of the Pensacola Computerized Traffic Signal System. Such activities included design and maintenance of the 12th Avenue sub-system including coordination equipment, interconnection cable and system sensors. The system sensors provide real-time traffic data for timing plan selection and produced an on-going historical database. The database was used to produce AADT, D, K and PHF's.

Other Project Experience

- *Wal-Mart Signal Design* in Escambia County - 1993
- *Creighton Road Signal Timing Study* in Escambia County - 1995
- *US 98 & Hutchinson Signal Design* in Destin - 1995
- *US 29 Signal Timing Study* in Escambia County - 1997
- *Signal System Feasibility Study* in Foley, AL - 1997
- *Chiefs' Way Signal System Analysis and Design* in Pensacola - 1998
- *US 98 Traffic Analysis* in Gulf Breeze - 1998
- *SR 79 Signal Design* in Panama City - 1999
- *Davis Highway Design, Segment 1 and Segment 2 - Intersection Engineering Analysis*
- *Nine Mile Road Design - Intersection Engineering Analysis*

As Assistant Civil Engineer for the New York State Department of Transportation for 18 years, Mr. Bedell's experience included the following:

- *Design of signals and signal systems and preparation of detailed plans, specifications, and estimates* for signal and sign work included in construction projects.
- *Calculating and refining signal timing settings*
- *Signal design and field layout* for signal installations and modifications completed by State forces.
- *As Engineer-in-charge of traffic signal operations*, assumed responsibility for installation, modification, timing, and maintenance of approximately 725 traffic signals under the jurisdiction of the N.Y.S.D.O.T.
- *Completed intersection analysis and design* including application of traffic engineering principles for sophisticated signal systems (e.g. the computerized digital Sunrise Highway signal system)

Commitment to Minority/Women Business Enterprises

For assignments that require professional services beyond the capability of our local staff, such as survey, geotechnical, and traffic data collection, we will utilize local

Minority/Women Business Enterprises to fulfill Leon County's M/WBE participation goals. **Lochner** is committed to utilizing local small and minority businesses on our projects. In 2009 we received the FICE/FDOT DBE Utilization Award for being the #1 Engineering Firm in the State for DBE Utilization. Our current average DBE utilization rate on State projects exceeds 13 percent.



Diversified Design and Drafting Services (3DS), Environmental and Geotechnical Specialists (EGS), and Hamilton Smith and Associates (HSA), all certified M/WBE firms, will serve as subconsultants as needed on assignments under this contract. We have a long and successful work history with each of these firms.

B. Experience with Projects of a Similar Type and Size

The **Lochner Team** offers Leon County a strong local presence, a history of successful projects, and expertise in providing the services requested under this contract. The following projects demonstrate our recent project experience and qualifications in the Work Categories of Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, and Structural Engineering.

Capital Circle NW/SW Widening

Tallahassee, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of Capital Circle from Orange Avenue to US 90 (Tennessee Street) in Tallahassee. Major design work efforts included roadway design, drainage design, bridge design, signing and marking design, signal design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: Blueprint 2000
2727 Apalachee Parkway, Suite 200
Tallahassee, Florida 32301

Project Contact: Mrs. Latesa Turner, PE
Project Manager
850.219.1060

Completion Date: June 2011

Project Team: Hugh Williams, PE – Project Manager and EOR
Michael Woodard, PE – Lead Roadway Engineer
Natalie Zierden, PE – Lead Drainage Engineer
Doug Hershey, PE – Lead Structural Engineer
Ryan Huebschman, PE – Lead Traffic Engineer

Natural Bridge Road Bridge Replacement Project

Leon County, Florida

Firm Responsibility:

Stormwater Engineering, Roadway Design, Structural Engineering

Project Description:

Provided Design Services for replacement of bridge on Natural Bridge Road over a branch of St. Marks River. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner:

FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact:

Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date:

July 2011

Project Team:

Michael Woodard, PE	Project Manager and EOR
Tony Alex, PE	Lead Roadway Engineer
Natalie Zierden, PE	Lead Drainage Engineer
Chuck Craycraft, PE	Lead Structural Engineer

SR 20 over Gum Creek Bridge Replacement Project

Tallahassee, Florida

Firm Responsibility:

Stormwater Engineering, Roadway Design, Structural Engineering

Project Description:

Provided Design Services for replacement of bridge on SR 20 over Gum Creek in Tallahassee. Major work efforts included roadway design, drainage design, bridge design, signing and marking design, utility coordination, permitting, and public involvement activities.

Project Owner:

FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact:

Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date:

July 2011

Project Team:

Michael Woodard, PE	Project Manager and EOR
Tony Alex, PE	Lead Roadway Engineer
Natalie Zierden, PE	Lead Drainage Engineer
Chuck Craycraft, PE	Lead Structural Engineer

SR 61 (US 319) Thomasville Road Resurfacing Project

Leon County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided Design Services for resurfacing, restoration, and rehabilitation of four-lane divided Thomasville Road from Chiles High School to Georgia line in Leon County. Major work efforts included roadway design, drainage design, bridge culvert design, traffic analysis, signing and marking design, utility coordination, and permitting.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Clay Hunter, PE
Project Manager
850.638.0250

Completion Date: December 2010

Project Team: David Freni, PE Project Manager and EOR
Tony Alex, PE Lead Roadway Engineer
Natalie Zierden, PE Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

SR 83 (US 331) Widening Project

Walton County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for four-lane widening of US 331 from US 98 to the Choctawhatchee Bridge in Walton County. Major design work efforts included roadway design, drainage design, signal and signal structure design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Dean Mitchell, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: December 2009

Project Team: Hugh Williams, PE Project Manager
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Ryan Huebschman, PE Traffic Engineer

SR 85 at SR 123 Widening and New Interchange Project

Okaloosa County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and Design Services for six-lane widening of SR 85, four-lane widening of SR 123, and new grade separated interchange adjacent to NW Florida Regional Airport on Eglin AFB. Major design work efforts included roadway design, drainage design, signal and signal structure design, bridge design, signing and marking design, lighting design, traffic analysis, utility coordination, permitting, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mrs. Noelle Warren, PE
Project Manager (GEC, PBS&J)
850.638.2288

Completion Date: March 2009

Project Team: Michael Woodard, PE Project Manager and EOR
Tony Alex, PE Sr. Roadway Engineer
Scott Simmons, EI Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer
Chuck Craycraft, PE Lead Structural Engineer
Ryan Huebschman, PE Lead Traffic Engineer

CR 388 (West Bay Parkway) PD&E Study, Segment 2

Bay County, Florida

Firm Responsibility: Stormwater Engineering, Roadway Design, Traffic and Intersection Engineering, Structural Engineering

Project Description: Provided PD&E Study and preliminary Design Services for 12 miles of new four-lane suburban roadway between SR 79 and SR 77, including bridge structures at three locations. Major design work efforts included preliminary roadway design, drainage design, intersection design, bridge design, signing and marking design, utility coordination, permitting coordination, and public involvement activities.

Project Owner: FDOT District 3
1074 Highway 90 East
Chipley, Florida 32428

Project Contact: Mr. Brandon Bruner, PE
Project Manager
850.638.0250

Completion Date: June 2011 (PD&E Study); Design is on-going

Project Team: Hugh Williams, PE Project Manager and EOR
David Freni, PE Sr. Roadway Engineer
Natalie Zierden, PE Sr. Drainage Engineer

C. Willingness to Meet Schedule and Budget Requirements

Working Efficiently

The **Lochner Team** is aware of the fiscal challenges that Leon County is currently facing and our approach to this contract will be to deliver solutions that maximize your investment on each assignment. We understand the importance of providing the most benefit for the taxpayers' dollars. One way we achieve this is through the use of senior staff to direct the heart of an assignment, and to provide quality control and quality assurance services, while junior, yet fully-capable, staff are used for the hour-to-hour production. This balancing of staff provides the best product at the lowest cost to you.

Communicating Effectively

The **Lochner Team** is committed to meeting your needs in a professional and timely manner while delivering high quality products on time and within budget. We will approach each assignment as a unique project with the understanding that creative solutions and designs are often necessary to make a project successful. As such, we recommend that a kick-off meeting be held for each assignment, with key project team members from the County, the **Lochner Team**, and other interested stakeholders present to identify project constraints, goals, and expectations. During the kick-off meeting, typical agenda items will include:

- Introduction of project team members, roles, and responsibilities
- Identification of project goals, concerns, and special constraints
- Review of budget and funding sources
- Review of schedule and critical milestones
- Discussion of creative alternatives, if needed

In addition to kick-off meetings, we propose to have milestone or phase review meetings, as needed, and we will always maintain open lines of communication with and coordinate with the appropriate County staff and other team members to ensure projects stay on track.

Maintaining High Quality

A good quality control plan must be adhered to even more so on the short duration task assignments under this contract than with other longer duration design contracts. The reason for this is because there is less time and fewer opportunities to find and correct mistakes. When schedules are compressed and phase submittals are omitted, it becomes even more imperative to follow the quality control plan. **Lochner** has a quality control program that has been tested and proven to be very dependable for many years and this is reflected by the high grades and re-selections we consistently receive from our clients on other design contracts. Avoiding errors and omissions saves everyone time and money.

D. Effect of Firm's Recent, Current, and Projected Workload

Our key staff members currently have an overall availability of more than 50% through October 2011 and 50-75% availability for the remainder of 2011. We are ready and willing to respond to any task assignment under this contract. You call us and we are there!

The following list gives details of the active design projects being managed from our Tallahassee Office.

Capital Circle NW/SW Widening

Project Manager: Hugh Williams
Estimated Completion Date: June 2011

Lonnbladh Road Stormwater Treatment Facility

Project Manager: Natalie Zierden
Estimated Completion Date: April 2011

Tallahassee Sidewalks, Group B-4

Project Manager: Tony Alex
Estimated Completion Date: April 2011

SR 20 Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: June 2011

Natural Bridge Rd Bridge Replacement

Project Manager: Michael Woodard
Estimated Completion Date: August 2011

CR 388 PD&E Study, Segment 1

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

Starke Bypass New Alignment

Project Manager: Hugh Williams
Estimated Completion Date: November 2011

US 17 Widening

Project Manager: Hugh Williams
Estimated Completion Date: October 2011

E. Effect of Project Team Location

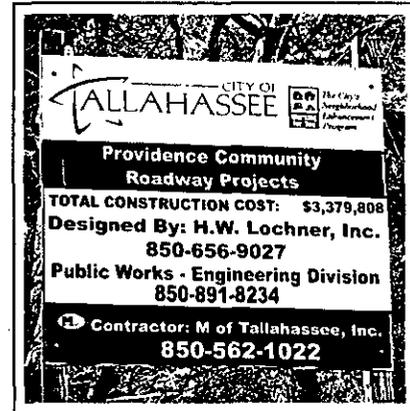
Lochner has maintained an office in Tallahassee since 1998. We are located just two miles from the Leon County Public Works Department and three miles from the Leon County Commission Chambers, which provides convenient access and minimal notice to attend meetings at either location.

With our project manager (David Freni, PE), a full roadway and drainage design group, and all of our subconsultants located here in Leon County, the **Lochner Team** is ideally suited for this contract.

We currently have 10 employees in Tallahassee, which includes six Professional Engineers (PEs), two Engineer Interns (EIs), one contract support specialist, and one student intern from FSU College of Engineering.

F. Approach to the Project

Upon receiving notice of a planned work order, David will be the first to thoroughly discuss the project objectives with the County's project manager. David and other members of the **Lochner Team**, as needed, will then conduct a cursory review of the project limits and prepare a scope, fee, and schedule for the proposed work to ensure that we all have the same understanding of the project's objectives and constraints. Depending upon the scope and work mix of these assignments, the **Lochner Team** is capable of assigning up to six teams to work on projects under this contract at any one time. David has available to him all of **Lochner's** engineering resources, which consists of more than 600 professionals throughout the firm.



Our approach to every project is simple. We will help you achieve your goals by:

- Responding Immediately
- Working Efficiently
- Communicating Effectively
- Maintaining High Quality