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.

Nobles Consulting Group, Inc.
(Firm Name)

BY: Allen K. Nobles
(Authorized Representative)

Allen K. Nobles
(Printed or Typed Name)

ADDRESS: 2844 Pablo Avenue

CITY, STATE, ZIP: Tallahassee, Florida 32308

TELEPHONE: (850) 385-1179

FAX: (850) 385-1404

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:

____ a. Stormwater Engineering
____ b. Roadway Design
____ c. Traffic and Intersection Engineering
____ d. Structural Engineering
____ e. Geotechnical Services
____ f. Environmental Support Services
____ g. Construction Engineering and Inspection Services
__✓__ h. Surveying
____ i. Subdivision and Site Development Engineering
____ j. Parks and Recreational Facility Engineering
____ k. Utility Engineering

1 Contractor Information

2 Executive Summary

3 Required Forms

4 Ability of Professional Personnel (with Resumes)

5 Experience with Projects of a Similar Type and Size (Project 330's)

6 Willingness to Meet Schedule and Budget Requirements

7 Effect of Firm's Recent, Current and Projected Workload

8 Effect of Project Team Location

9 Approach to the Project

10

March 16, 2011

Proposal Number: BC-03-17-11-25
Purchasing Division
1800-3 Blair Stone Road
Tallahassee, Florida 32308

CONTRACTOR INFORMATION

The Tallahassee office of Nobles Consulting Group, Inc. will provide the services for this contract. The authorized representative and contact person for this contract is:

Mr. Allen Nobles, PLS
President
Nobles Consulting Group, Inc.
2844 Pablo Avenue
Tallahassee, Florida 32308
Office number: 850-385-1179
Fax number: 850-385-1404.
Email address is: allen@ncginc.com

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

EXECUTIVE SUMMARY

Nobles Consulting Group, Inc. (NCG) is a Florida-based company established in 1981 that provides advanced geospatial solutions and surveying services for Federal, State, and Local governments, as well as private industry.

NCG started with five employees in 1979 under the name of Allen Nobles & Associates (incorporated in 1981) and worked with private developers in surveying, design and the permitting of subdivisions. In 1985, the corporation expanded its services and client base to include City and County governments. The addition of new employees and new equipment enabled the firm to continue to provide and enhance the quality, timely, professional service that has been the keynote of its success. Since 1986, NCG has offered a full array of professional surveying and geospatial services including: FDOT surveys for design professionals, extensive experience in geodetic control surveys, large and small scale boundary surveys, construction layout, as-built surveys, CEI surveys, right-of-way surveys, GIS, wetland jurisdiction surveys, and serving as expert witnesses. In 2002, NCG began participating on teams to provide both large and small LiDAR projects. In 2007, NCG acquired its first 3D laser scanner and has been working nationwide providing scanning services. In 2008, NCG purchased in-house LiDAR processing software to be able to classify and combine ground-based and airborne LiDAR data.

NCG has one of the largest private survey record collections for the Leon County area. Along with 30 years of records from NCG working in Leon County, NCG has the records for many older firms like Frank Glenn, Pete Goodling, David Blanchard, Paul Williamson, Florida Engineering and others. NCG has the most comprehensive GPS control network in North Florida that has both horizontal and vertical control for the full panhandle area.

The NCG team brings a group with the financial stability, the commitment to quality, a proven track record of dedication to research and development of emerging technologies, and the contracting flexibility to ensure that the County will have the most highly qualified partners for this contract. The team members are leaders in their respective fields, and are experienced in virtually every type of mapping system used to create standard products and other deliverables to make sure "first-time right" products and services are delivered.

The NCG team offers the County an unparalleled group of professionals performing professional mapping services throughout the United States and its territories and possessions. Of the Professional Land Surveyors on the team, 62% have college degrees including professionals that are Certified Federal Land Surveyors (CFedS). Among the team members are professionals that are currently serving on the NCEES committee writing the national surveyor's exam as a subject matter expert, on the ASTM E-57 Standards Committee writing the national standards for terrestrial scanning, are nationally known speakers, and have wrote well known reference books on surveying (The Surveyor Reference Manual).

Sub Consultants

For this contract, NCG has added the use of three distinguished firms, **Diversified Design & Drafting Services, Inc. (3DS), Michael Baker Corporation (Baker)** for aerial mapping and mobile LiDAR mapping services and **Cardno TBE** for unground utilities. NCG with these two sub-consultants can bring the key components and unique qualifications required for any possible project requested, ensuring successful results to all task orders for Leon County under this contract. Team members have been performing similar jobs in complexity, collectively, jointly, and individually, under rigid timelines for many years.

NCG has the financial stability, the commitment to quality, a proven track record of dedication to research and development of emerging technologies, and the contracting flexibility to ensure that Leon County will

have the most highly qualified partners for this contract. The team members are leaders in their respective fields, and are experienced in virtually every type of mapping system used to create standard products and other deliverables to make sure "first-time right" products and services are delivered.

Diversified Design & Drafting Services, Inc. (3DS) was originally formed in 1990 as a woman-owned business to meet the needs of engineering companies in CADD production work, as well as software training. As 3DS evolved, it began providing a full array of professional surveying services, specializing in full topographic design surveys, geodetic control surveys, boundary surveys, construction layout, as-built surveys, CEI surveys, right-of-way surveys, and wetland jurisdiction surveys.

3DS has also offered a full range of aerial mapping services for the past 8 years and has the ability to process LiDAR data to produce topographic maps over large-scale areas. It has provided airports with approach obstruction surveys, as well as land-cover and land-use determinations.

Michael Baker Corporation (Baker) was founded in 1940 by Michael Baker Jr. and quickly attained recognition as a premiere engineering design and survey firm due to its superior project performance. With more than 2,300 employees in office and projects ranging across the United States and internationally, Baker is consistently ranked by Engineering News Record among the top 10% of the 500 largest U.S. design firms.

Baker staff members are highly qualified in the fields of surveying and mapping, photogrammetry, geographic information systems (GIS), LiDAR, spatial databases, information technology, and more. Utilizing the latest technologies, Baker provides its clients with innovative solutions to a variety of challenges.

Cardno TBE provides clients the highest quality Subsurface Utility Engineering, Three-Dimensional Underground Imaging, professional Utility Coordination, Utility Design and Surveying and Mapping services available.

Cardno TBE's staff includes professional, registered surveyors and engineers, survey technicians and field crews. Each associate is focused on maintaining cutting-edge, quality service. Using sophisticated equipment and technology, our professionals prepare 2-D maps and/or 3-D digital files as needed for the task at hand. Applications include federal, state, county and city government continuing service contracts and stand-alone private and public projects.

NCG believes that the owners and team members have exhibited their leadership qualities in their respective fields and have clearly demonstrated the highest levels of Professional Excellence.

The authorized representative for this contract will be Mr. Allen Nobles, President of NCG, Inc. and declares that the following proposal is in all respects fair and in good faith without collusion or fraud and that the signer of the proposal has the authority to bind principal proponent. Mr. Nobles is located at:

Nobles Consulting Group, Inc.
2844 Pablo Ave.
Tallahassee, Florida 32308
Office number: (850) 385-1179
Fax number: (850) 385-1404

Allen Nobles, PLS
President
Nobles Consulting Group, Inc.

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
Proposal Number: BC-03-17-11-25
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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: Nobles Consulting Group, Inc.

Signature: _____ Title: President

STATE OF Florida
COUNTY OF Leon

Sworn to and subscribed before me this 17 day of March, 2011.

Personally known ✓

NOTARY PUBLIC

OR Produced identification _____ Notary Public - State of Florida

_____ My commission expires: 04/10/2015
(Type of identification)

TAMARA MURRAY
MY COMMISSION # EE 051442
EXPIRES: April 10, 2015
Bonded Thru Notary Public Underwriters

_____
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.

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
Proposal Number: BC-03-17-11-25
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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: President

Firm: Nobles Consulting Group, Inc.

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

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:	A+
	Indicate Best Financial Classification:	XV
Business Auto:	Indicate Best Rating:	A+
	Indicate Best Financial Classification:	XV
Professional Liability:	Indicate Best Rating:	A+
	Indicate Best Financial Classification:	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: A+
Indicate Best Financial Classification: XV

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.

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
Proposal Number: BC-03-17-11-25
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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 statues 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

President
Title

Nobles Consulting Group, Inc.
Contractor/Firm

2844 Pablo Avenue, Tallahassee, Florida 32308
Address

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

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 _____ Signature _____
Typed or Printed

Date 3/16/2011 Title PRESIDENT
(Company Risk Manager or Manager with Risk Authority)

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: Nobles Consulting Group, Inc.	
Current Local Address: 2844 Pablo Avenue Tallahassee, Florida 32308	Phone: (850) 385-1179 Fax: (850) 385-1404
If the above address has been for less than six months, please provide the prior address. Length of time at this address:	
Home Office Address: 2844 Pablo Avenue Tallahassee, Florida 32308	Phone: (850) 385-1179 Fax: (850) 385-1404

Signature of Authorized Representative

3/16/2011
Date

STATE OF Florida
COUNTY OF Leon

The foregoing instrument was acknowledged before me this 16 day of March, 2011.

By Allen Nobles, of Nobles Consulting Group, Inc.,
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

a Florida 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)

TAMARA MURRAY
MY COMMISSION # EE 051448
EXPIRES: April 10, 2015
Bonded Thru Notary Public Underwriters

Signature of Notary

Tamara Murray
Print, Type or Stamp Name of Notary

Financial Manager
Title or Rank

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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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: Cardno TBE

Signature: _____ Title: Vice President

STATE OF Florida
COUNTY OF Pinellas

Sworn to and subscribed before me this 7th day of March, 2011.

Personally known X

Paula M. Strasser
NOTARY PUBLIC

OR Produced identification _____

Notary Public - State of Florida

_____ My commission expires: 8/17/2012
(Type of identification)

PAULA M. STRASSER
Comm# DD0783196
Expires 8/17/2012
Florida Notary Assn., Inc

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.

X

Vice President
11
March
Cardno TBE
Florida
Pinellas

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
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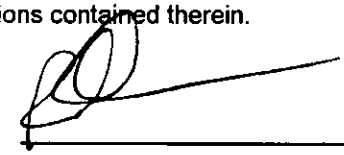
EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT

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: Cardno TBE

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
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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: XV
Indicate Best Financial Classification: 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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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 statues 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

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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

Cardno TBE
Contractor/Firm

380 Park Place Boulevard, Suite 300 / Clearwater, FL 33759
Address

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply
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Opening Date: Thursday, March 17, 2011 at 2:00 PM

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 $250,000 each claim

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. INSURANCE CARRIER will ENDEAVOR to MAIL

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 CRAIG D. SNYDER (Typed or Printed) Signature Craig D Snyd

Date 3/4/2011 Title RISK MANAGER (Company Risk Manager or Manager with Risk Authority)

Ability of Professional Personnel

Organization and Management

NCG feels the key to providing services on a continuing services contract is not an approach to any single project but to have the overall company situated to have the ability to service any number of tasks related to surveying. NCG knows that to provide the required services for this contract and to reduce costs to Leon County, it has to provide field crew coverage that meets the County needs and meet the budget goals. In the past few years, NCG has served Leon County, North Florida and many states in the Southeast and understands how to work in vast areas of large and small populations, varying terrain types, all while utilizing many different ways of surveying.

Sub Consultants

For this contract, NCG has added the use of three distinguished firms, **Diversified Design & Drafting Services, Inc. (3DS), Michael Baker Corporation (Baker)** for aerial mapping and mobile LiDAR mapping services and **Cardno TBE** for underground utilities. NCG with these three sub-consultants can bring the key components and unique qualifications required for any possible project requested, ensuring successful results to all task orders for Leon County under this contract. Team members have been performing similar jobs in complexity, collectively, jointly, and individually, under rigid timelines for many years.

The team members are leaders in their respective fields, and are experienced in virtually every type of mapping system used to create standard products and other deliverables to make sure "first-time right" products and services are delivered.

Diversified Design & Drafting Services, Inc. (3DS) was originally formed in 1990 as a woman-owned business to meet the needs of engineering companies in CADD production work, as well as software training. As 3DS evolved, it began providing a full array of professional surveying services, specializing in full topographic design surveys, geodetic control surveys, boundary surveys, construction layout, as-built surveys, CEI surveys, right-of-way surveys, and wetland jurisdiction surveys.

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Baker staff members are highly qualified in the fields of surveying and mapping, photogrammetry, geographic information systems (GIS), LiDAR, spatial databases, information technology, and more. Utilizing the latest technologies, Baker provides its clients with innovative solutions to a variety of challenges.

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

Cardno TBE provides clients the highest quality Subsurface Utility Engineering, Three-Dimensional Underground Imaging, professional Utility Coordination, Utility Design and Surveying and Mapping services available.

Cardno TBE's staff includes professional, registered surveyors and engineers, survey technicians and field crews. Each associate is focused on maintaining cutting-edge, quality service. Using sophisticated equipment and technology, our professionals prepare 2-D maps and/or 3-D digital files as needed for the task at hand. Applications include federal, state, county and city government continuing service contracts and stand-alone private and public projects.

NCG has worked for many years with these three firms and has existing contracts with each of them and believes that if needed these subcontractors provide the addition services needed to insure timely service to the County.

Personnel

NCG has ten (10) registered land surveyors at the project manager level that are located in Florida. The overall project manager for this contract will be Mr. Kevin Mears, PSM located in Tallahassee. Kevin will provide 100% of his time to these projects if needed. Kevin's experience is in working on wetland and coastal properties, and he has managed many large boundary projects for this team. Kevin will also work on site, having firsthand knowledge of any project area. The survey project manager(s) will be under the direct supervision of Mr. Allen Nobles, who will also have firsthand knowledge of any projects under this contract. The survey project supervisor and survey project managers will communicate with the County for project updates and provide the County with other points of contact for each project. Quality Assurance and Quality Control will be solely under Mr. Nobles' and Mr. Mears' review.

The following is a list of the NCG team's "key" survey personnel to provide support, guidance, and management for the contract and NCG has provided full resumes in the resume section of this proposal:

Surveying

Mr. Allen K. Nobles, PSM, and President (NCG): Mr. Nobles will be the project supervisor for this contract. As the President of the firm, he can assign staff from any of the offices to best fit the staffing and scheduling needs of the County. Allen has over thirty (30) years' experience and is directly involved in the daily planning and scheduling of staff. Allen also has experience in Ordinary High Water Line Surveys, Mean High Water Line Surveys, Jurisdictional Surveys, Sectionalized Land (B.L.M.) Surveys, and has served as an expert witness in boundary litigation.

Mr. Kevin Mears, PSM (NCG): Mr. Mears has over twenty-eight (28) years of surveying experience in the North Florida area and is currently overseeing large boundary surveys for the St. Joe Company in Gulf, Walton, Franklin, and Wakulla counties. Kevin also has extensive experience in Ordinary High Water Line Surveys, Mean High Water Line Surveys, Jurisdictional Surveys (wetland mapping), F.D.E.P. Surveys, and Sectionalized Land (B.L.M.) Surveys.

Mr. George Cole, PE, PLS, PHD (NCG): Mr. Coles experience includes world-wide geodetic & hydrographic surveys and participation in the world-wide satellite geodesy program with the U.S. Coast & Geodetic Survey, service as the State Cadastral Surveyor for Florida, the president of a private surveying & engineering firm and as professor of surveying and mapping at the University of Puerto Rico.

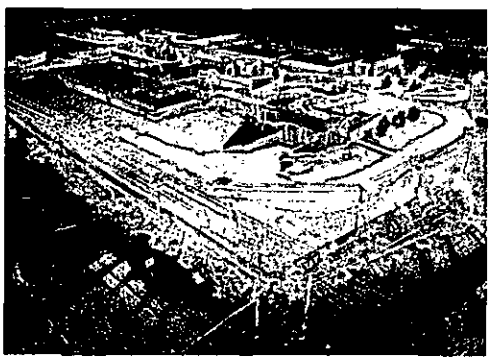
Mr. Paul Williamson, PSM (NCG): Mr. Williamson is the field crew coordinator in our Tallahassee office and works with the project managers on the day-to-day operation of the field crews. Paul has over thirty years' experience in the North Florida area.

Mr. David Griswold, PSM (NCG): Mr. Griswold has over twenty-five (25) years of experience and will be one of the project managers. He is in charge of NCG's large boundary projects in the western part of North Florida. David was in charge of a number of St. Joe projects that included large acreage boundaries, miles of wetland mapping, and ordinary high water and mean high water surveys. David is also a GPS Coordinator for planning and processing of GPS control data.

Mr. Jason Hill, PSM (3DS): Mr. Hill has 21 years of experience in surveying and mapping, working primarily on Florida Department of Transportation projects for the past 14 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.

Mr. Eric Stuart, PSM (NCG): Mr. Stuart currently serves as the field crew coordinator and office manager for the Pensacola office of NCG. Eric is a graduate of the Troy University Geomatics program and is skilled in the processing and reduction of CAiCE data, performing calculations and preparation of CADD deliverables in the District's required formats. Eric also has experience in the preparation of large boundary surveys, wetland mapping, and mean high water surveys. Eric is also a Certified Federal Land Surveyor (CFedS).

GPS and HDS Laser Scanning



Mr. Alfredo "Fred" Bermudez, PSM (NCG): The project manager for laser scanning will be Alfredo Bermudez, PSM who has a BS in Surveying and Mapping from the University of Florida and comes from a GPS control background providing high end GPS control networks. Fred has been working with terrestrial scanners for three years and is in charge of the field and office processing of scanner data.

Mobile Scanning

Mr. Stephen Clancy, PSM (Baker): The project manager for mobile scanning will be Stephen Clancy. Stephen brings nearly a decade of intimate DEP experience to the team and has a BS in Surveying and Mapping from the University of Florida. Stephen also has experience with terrestrial scanners and is in charge of the field and office processing of the mobile data. Stephen will also provide services for GIS as shown below.

Aerial Mapping

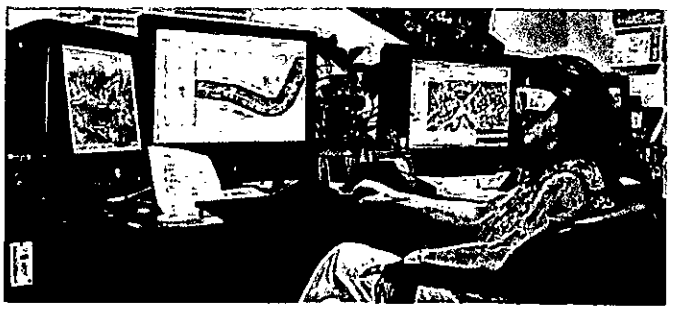
Ms. Pamela Nobles, PSM (3DS): Ms. Nobles is the President of 3DS and has more than 18 years of experience in the surveying field, including experience in project management, field crew supervision, survey data processing, performing control, topographic, cadastral, and many other types of surveys.

Ms. Sherry Brown (3DS): Ms. Brown serves as Operations Manager for the Photogrammetry office of Diversified Design & Drafting Services, Inc. (3DS). She has a wide range of experience in the field of Photogrammetry and has a technical degree as a Drafting and Design Technician specializing in CADD and GIS, and also holds a technical degree in Computer Electronics. She is proficient in Intergraph's

soft-copy software, creating geo-referenced ortho-rectified mosaic images from aerial photography, as well as MicroStation, AutoCAD, Terramodel, GeoMedia, and ArcGIS software. She also has extensive experience in GIS conversions of land-based mapping systems and processing GPS data to integrate into GIS databases.

GIS

Mr. Stephen Clancy, PSM (Baker): The project manager for mobile scanning will be Stephen Clancy. Stephen brings nearly a decade of intimate DEP experience to the team and has a BS in Surveying and Mapping from the University of Florida. Stephen also has experience with terrestrial scanners and is in charge of the field and office processing of the mobile data. Stephen will also provide services for GIS as shown below.



NCG has other surveyors not shown above that could be utilized to meet any manpower requirements that would be needed to meet critical deadlines and objectives on this very important contract.

Underground Utilities

Mr. James R. Allen, PE (Cardno TBE): The project manager for underground utilities will be James Allen. Mr. Allen's experience providing Subsurface Utility Engineering services includes the management multi-year contracts and hundreds of individual projects. He has an outstanding record for the quality of his team deliverables and for delivering project on-time or ahead of schedule.

Mr. Daryl I. Thie, PLS (Cardno TBE): As Senior Project Manager of Cardno TBE, Mr. Thie is responsible for the acquisition and management of Surveying and Mapping multi-year contracts and individual projects in North Florida, Alabama, Mississippi, Arkansas and Louisiana. Over the course of his career, Mr. Thie has managed hundreds projects relating to all aspects of the surveying profession. This experience has given Mr. Thie the ability to oversee projects from conception to completion. He is able to anticipate challenges before they arise and find creative and innovative solutions, assuring projects are delivered on time or ahead of schedule and in a cost-efficient manner.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Allen K. Nobles, LS	Project Manager	38	31

FIRM NAME AND LOCATION (City and State)
Nobles Consulting Group - Tallahassee, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
A.S., Land Surveying/Palm Beach Junior College	Florida #3562, Professional Surveyor and Mapper Georgia #2319, Registered Land Surveyor

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)* Mr. Nobles has been a project surveyor for large sectional and boundary surveys, construction staking, topographical surveys and control surveys for 33 years. He now oversees numerous complex projects throughout the Southeast working with LiDAR, 3D scanning, LAMP mapping and GPS control projects. He has served as an expert witness, conducted many technical seminars and serves on the ASTM committee for 3D scanner standards and is a member of FSMS, ASTM, Mapps, ACSM, SAMSOG, and SAME.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State): **Leon County GPS/LIDAR Mapping, Tallahassee, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2003	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Complete Blue Booking of GPS control network, target control, QC mapping of 1,200 check points for LIDAR mapping. Project converted 820 square miles and was a $1 million plus project.

b.

(1) TITLE AND LOCATION (City and State): **Southwood (Subdivision), Tallahassee, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

St. Joe Land Company project covering 3,500 acres in Southeast Leon County, Florida. Have provided Boundary Mapping, Wetland Mapping, Platting, Control Surveys, Topographical Mapping and Layout work. Project is still on going. Fee: 3.5 Mil.

c.

(1) TITLE AND LOCATION (City and State): **Lake Munson - Lake Henriette Restoration, Tallahassee, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2002	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Full design survey and acquisition survey for lake and slough restoration survey included full GPS control network, seven miles of wetland survey, right of way mapping and boundary surveys. Project had a $1.2 million fee and survey had to be completed in six months.

d.

(1) TITLE AND LOCATION (City and State): **Box R Ranch, Apalachicola, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2003	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Boundary Survey for state acquisition, 8000 acres of pine flatwoods and coastal hammock, 21 miles of water boundaries (MHW). Survey was completed in three months. Fee $225,000.

e.

(1) TITLE AND LOCATION (City and State): **St. Andrews State Park, Panama City, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2002	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Prepared Control, Topographic and Mean High Water Surveys for Sanitary Sewer System Design. Approximately 13,500 LF. Fee $20,000.00

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
M. Kevin Mears, PSM	Project Manager	29	10

FIRM NAME AND LOCATION (City and State)
Nobles Consulting Group - Tallahassee, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
	Florida #5459, Professional Surveyor and Mapper

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Mears serves as a field coordinator responsible for creating and implementing the best practices standards for field staff. He has had formal training in GPS systems, government retracement surveys, wetland mapping and office processing systems. Mr. Mears has provided field and office services for miscellaneous FDOT surveying projects and field control for QA/QC of LiDAR mapping.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Tallahassee-St. Marks Historic Railroad
City of St. Marks to City of Tallahassee, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2010	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager and surveyor for Topographic Survey of 16 mile bicycle and equestrian trail in Leon and Wakulla Counties. Survey done for Office of Greenway and Trails, design of trail improvements and trailheads. Horizontal control pairs were established at 3 mile intervals from a static GPS control network. Permanent benchmarks were established at 1000-foot intervals by digital leveling. Fee: $4900.00.

b.

(1) TITLE AND LOCATION (City and State)
River Bend
Havana, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2007	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager and surveyor for Boundary Survey of 2000 acres in Gadsden County. A dependent resurvey of portions eight (8) sections using Public Land Survey field notes and plats. Researched legal descriptions, analyzed boundary evidence. Determined Ordinary High Water elevation by field transects and LiDAR data. LiDAR data was also used to plot positions of section corners from Government Land Office Field Notes. Fee $65,000.

c.

(1) TITLE AND LOCATION (City and State)
Comfort Creek Property
Lake Talquin, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2006	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project manager and surveyor for Boundary and Topographic Survey of Dependent resurvey of 470 acres in Gadsden County. Control was established for LiDAR Mapping from a static GPS network and conventional leveling. A topographic survey map was prepared showing contours at 1-foot interval, using LiDAR and conventional field survey data. Fee: $25,800.

d.

(1) TITLE AND LOCATION (City and State)
SummerCamp Subdivision
St. Teresa, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2007	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project manager and surveyor for Dependent resurvey of 800 acre parcel in three fractional sections in the John Forbes and Company Land Grant on the Gulf of Mexico. Survey included mapping of approximately five miles of Mean High Water and twenty-one miles of wetlands. Retracement of the privately surveyed sections was aided by 1960 field notes by local surveyor J.B. Hathaway. Survey control established by static GPS network and conventional leveling. Fee: $220.000.

e.

(1) TITLE AND LOCATION (City and State)
Box R Ranch
Apalachicola, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2003	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager and Surveyor for Boundary Survey of 8000 acres in the John Forbes and Company Land Grant. A dependent resurvey of 19 sections was done using P.L.S. field notes and plats of the township and range lines that divided the privately surveyed sections. Researched legal descriptions and maps to retrace private sections. Seven, three-man, field crews were used to complete the field survey within 90-days. Analyzed boundary evidence, identified boundary conflicts and encroachments. Fee: $225,000.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Paul Williamson, PSM	Project Manager	38	21

FIRM NAME AND LOCATION (City and State)
Nobles Consulting Group - Tallahassee, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
B.S., Finance/Florida State University	Florida #3208, Professional Surveyor and Mapper

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)* Mr. Williamson is a registered land surveyor and presently is the Project Manager in charge of the survey field crews. He has over 38 years' experience in surveying and was previously the owner of his own land surveying firm. Paul also utilizes his background in finance to perform economic studies as needed.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Canopy at Welaunee **Tallahassee, Florida**	2007	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager - 980 Acre topographic and tree survey, cross section roadways, cross section Fleishman Road. Fee: $138,000.

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Stone Buildings - FSU Campus **Tallahassee, Florida**	2007	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager - Topographic tree and utility survey. Locate existing improvements, used scanner for data collecting. Fee: $58,000.

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Gadsden County High School **Gadsden County, Florida**	2005	2004

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager - Boundary and topographic survey of 100 acres, Construction stakeout construction of new high school, As built survey of new facility. Fee: $50,320.

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Heritage Oaks Apartments **Ocala Road, Tallahassee, Florida**	2005	2005

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager - Boundary, topographic, tree and utility survey of 38 acre site, Stakeout for all buildings, roads, walks and utilities, As built survey of utilities and all improvements. Fee: $23,000.

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Chiles High School **Tallahassee, Florida**	2006	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager - Boundary, topographic and utility survey construction stakeout for buildings, utilities and Storm water management facility, As built survey of complete facility. Fee: $30,000

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
David J. Griswold, PSM	Surveyor	a. TOTAL: 26	b. WITH CURRENT FIRM: 12

FIRM NAME AND LOCATION (City and State)
Nobles Consulting Group - Pensacola, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
A.S. Survey Technology/Valencia Community College/ 1993	Florida #5382, Professional Surveyor and Mapper

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Griswold is proficient in GPS data collection, the analysis of GPS field data and also has a strong background in survey computations and oversees the field work and quality control for the company field crews. Florida Surveying and Mapping Society, and SAME member.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Hurlburt Field at Eglin Air Force Base Mary Esther, Florida	Ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager for the preparation of Right of Way and Topographic Survey over a 3,000 linear foot portion of US 98 at the entrance of Hurlburt Field. Survey used in design for widening of US 98 at the entrance and to convey property from Eglin Air Force Base to the Florida Department of Transportation. Survey included all aboveground improvements, structures and utilities, including evidence of underground utilities. Analyzed & processed field-collected data and created DTM of site. Fee $65,025

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Mid Bay Bridge Connector Project Niceville, Florida	Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Surveyor on project to review Survey control (via Static GPS Network), topography collected along Florida Department of Transportation (FDOT) roadways, and review of LiDAR data in project database for completeness of DTM Survey along approximately 10 miles of proposed new road corridor. Review boundaries of 13 Sections in 3 Townships for new Toll Road corridor. Liaison between FDOT and Mid Bay Bridge Authority on submittals and review process. Fee: $975,000.00

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
4193121 - SR 30A(US 98) from Heather Drive to Thomas Drive Flyover - Panama City Beach, Florida	2010	2008

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Surveyor for QA/QC and review of the Topographic Survey, Alignment and R/W control along project corridor. Survey consisted of location of visible improvements being Roads, Sidewalks, medians, curbing, ditches, Jurisdictional wetland flags as designated by others, utilities, drainage and Sanitary Sewer systems. Liaison with FDOT on submittals and reviews on project. Fee: $243,945.80

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
FDOT District Three District Wide Traffic Operations Design Surveys FDOT District 3, 16 Counties in Northwest Florida	2010	2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Surveyor for QA/QC and review of Topographic survey and R/W based on R/W maps. Topography was field collected to show existing improvements within the limits of each project as determined by the Engineer of Record. Reviewed field-collected data, processed data and DTM of site. Review of deliverables in CAiCE & Micro Station Format. Liaison between FDOT survey and NCG for adherence of product quality and completeness. Fee: $75,737.36

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
220773-7 - S.R. 79 - From the North end of the Holmes Creek Bridge to just north of Cypress Creek Bridge in Washington County, Florida	2008	2001

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Coordination with field crew operations on Design Survey project for new multi-lane road from existing two lane road. This project was performed in conjunction with 4 other survey design projects that were being done simultaneously and there was a great deal of coordination between NCG and the other survey companies as well as FDOT survey and FDOT design offices.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Eric B. Stuart, LS	Project Surveyor	a. TOTAL: 8	b. WITH CURRENT FIRM: 8

15. FIRM NAME AND LOCATION (City and State)
Nobles Consulting Group - Pensacola, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
B.S. Troy State University - Geomatics (Minor in Mathematics), 2002	Alabama #29101 – PLS; Florida #6707 - PSM; Louisiana #5046 – PLS; Mississippi #3119 - PS; South Carolina #27744 – PLS; Texas #6237 - RPLS; Certified Federal Land Surveyor (CFedS) # 1230

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Stuart is proficient in AutoCad Civil 3D and Land Desktop, CAiCE, EFB Processing, Carlson SurvCE and Leica GPS Processing. Member of Alabama Society of Professional Land Surveyors (ASPLS), Florida Surveying & Mapping Society (FSMS) and SAME. Florida Department of Transportation Maintenance of Traffic Certified. CSX Roadway Worker Protection Certified.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State): **Fort Pickens National Park, Santa Rosa County, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES: 2006	CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager & Surveyor - Provided Topographic Survey in multiple areas within the Fort Pickens Boundary. Areas included the Ranger Station and the parking lot contiguous to the station, the road to the Fort, any side roads off the main road, Langdon Picnic Area, Carpenter Shop, Group Area "B", Campground Loops "A" – "E" and Battery Worth Topography was placed on State Plane NAD 83/90 Horizontal Datum and NAVD 88 Vertical Datum. Location of visible underground utilities throughout site. Approximately 40 Ac.± Survey Fees: $36,100.00

b.

(1) TITLE AND LOCATION (City and State): **Topsail Hill Preserve State Park, Walton County, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES: 2006	CONSTRUCTION (If applicable): Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager - Provided Topographic survey for design purposes on 5 sites within Topsail Hill Preserve State Park. Tasks included Placement of entire site on State Plane NAD 83/90 Horizontal Datum and NAVD 88 Vertical Datum. NCG provided location of wetland flags as flagged by others, topography and location of existing improvements, entrance roadways, underground utilities as marked by others, bridges, ditches pathways, roadways and other various amenities within the topographic limits. Approximately 25 Ac. ±. Survey fees: $36,210.00

c.

(1) TITLE AND LOCATION (City and State): **Eglin Air Force Base Culvert Reconstruction, Okaloosa County, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES: 2010	CONSTRUCTION (If applicable): 2008

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager & Surveyor - Provided topographic survey and location of improvements on Eight (8) separate site throughout Eglin AFB in the South portion of Okaloosa Co. in the unincorporated portion of Eglin. Each project consisted of Location of any improvements within a 200 foot radius of the culvert to be replaced. Ordinary High Water Line was located as derived by others as well as wetland lines. Location of the Streams and banks were located to determine size of new culvert replacements. Survey Fees: $33,830.80

d.

(1) TITLE AND LOCATION (City and State): **Topographic Survey of Opal Beach, lying South of Gulf Breeze and the City of Navarre.**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES: 2006	CONSTRUCTION (If applicable): 2008

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager & Surveyor - Provide Topographic survey and locations of improvements on State Plane NAD 83/90 Horizontal and 88 NAVD Vertical Datums on Approximately a 10± Acre site. Provide control points on site for re-construction purposes. Establish Mean high Water Line on both Gulf side and Sound side of Santa Rosa Sound. Approximately 10 Acres± Survey Fees: $9,630.00

e.

(1) TITLE AND LOCATION (City and State): **Henderson Beach State Park, Okaloosa County, Florida**

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES: 2007	CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Manager & Surveyor - Provided Topographic Survey along a 1500'x 600' Stretch of beach lying easterly of the Existing Henderson Beach public beach facilities. Site Topography included location of visible underground utilities throughout site and within 50 feet of project limits. Location of Storm & Sanitary Structures with inverts and elevations, location and elevations of pavements and their edges, location of the CCCL line, establish MHWL, locate vegetation lines and location of environmental flags as flagged by others. Survey Fees: $13,395.00

NCG
NOBLES CONSULTING GROUP, INC.

George M. Cole P.E., P.L.S., Ph.D.
Surveyor

Nobles Consulting Group, Inc. **May 2010 to present**
2844 Pablo Avenue
Tallahassee, Florida 32308
Phone (850) 385-1179

Registrations:
Florida No. 2244
Mississippi No. 1761
Real Estate License
Florida P.E. No. 38581
Texas P.E. No. 67003

Education:
BS - Math - Tulane University (1961)
MS - Geography - Florida State University (1996)
PhD - Geography - Florida State University (2007)

Professional Affiliations:

American Association of State Surveyors, (Service as President)
American Congress of Survey and Mapping, (Fellow Member)
Florida Engineering Society
Florida Society of Professional Land Surveyors, (Recognized as Surveyor of the Year)
National Society of Professional Engineers

Summary of Qualifications:
George M. Cole is a professional surveyor, engineer, and geographer with a career emphasis on mapping. His career has included service with the U.S. Coast & Geodetic Survey (now NOAA); as the State Cadastral Surveyor for Florida; as a private consultant directing private surveying and mapping operations in both the United States and Latin America; as a visiting professor at the University of Puerto Rico; and as an adjunct professor at Florida State University. In addition, he has served as technical advisor to several states on boundary issues; and has provided expert testimony to a number of local, state and federal courts, including the U.S. Supreme Court. He also has made significant contributions to professional literature and is the author of several surveying textbooks (with notable examples being *Water Boundaries*, John Wiley & Sons, 1996 and *Surveyor Reference Manual*, Professional Publications, 2009), law review articles, and research papers in professional journals. Cole holds a Bachelor of Science degree in mathematics from Tulane University as well as Master of Science and doctor of philosophy degrees in geography from Florida State University.

Project Experience:

Huckleberry Creek - Apalachicola, Florida. Project Surveyor & Engineer: Tidal studies, hydrographic profiles, and RTK GPS surveys for elevation determination for environmental study.

City GPS - Monticello, Florida. Project Surveyor & Mapper: City boundary research, GIS mapping and GPS surveys for base control and utility location.

Sable Bay - Naples, Florida. Project Surveyor: Tidal studies, photo interpretation, and field surveys in connection with a mean high water survey of 2500 acre littoral tract for development purposes.

Riparian Rights Guidelines - State of Mississippi. Project Surveyor: Development of guidelines and training staff and surveyors for locating littoral

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and riparian rights areas for Mississippi Department of Marine Resources and *Office of* Secretary of State.

Lake Poinsett Ordinary High Water Study - Brevard County, Florida. Project Surveyor: Determination and mapping of littoral boundary for litigation.

Typical Photogrammetry Experience

1983-1994 – President, Florida Engineering Services Corporation
The firm had complete aerial photo capability, aerial photo lab, and two stereo plotters.

Typical Projects:
MHWL survey of Bayou LaCroix, Hancock County, MS – Used photogeodesy to map aerial targets on MHWL for survey used in litigation ultimately heard by the U.S. Supreme Court (Phillips Petroleum v. State of Mississippi

Photogrammetric mapping of entire Florida State University campus including all building, roads, sidewalks, utilities and trees Photogrammetric mapping of land fill in Jackson County, Florida. Production of rectified aerial photographs for proposed high speed rail system from Miami to Tallahassee Production of rectified aerial photographs for cross-Florida fiber optics line

2004 – 2007 – Vice President for Surveying and Mapping, Biological Research Associates
LiDAR mapping of 10,000 ac. La Selva Biological Preserve in north-eastern Costa Rica LIDAR Mapping of six large tracts along Pacific coast of Costa Rica for development projects. Georeferenced digital aerial photography of entire Central Valley of Costa Rica

SDS E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Pamela W. Nobles, PSM, PLS	**President, Principle-in-Charge**	**20**	**13**

15. FIRM NAME AND LOCATION *(City and State)*
Diversified Design & Drafting Services, Inc. (Tallahassee, Florida)

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S. Surveying and Mapping, University of Florida	Professional Surveyor and Mapper, State of Florida 5645 Professional Land Survey, State of Alabama, Cert No. 27945-S

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Ms. Nobles is owner of Diversified Design & Drafting Services, Inc., and serves as Principle-In-Charge for Surveying in the Tallahassee Office, Project Manager for Photogrammetry and Business Manager for the Company. She has been involved in surveying and mapping since 1991. Survey types which she has overseen include: Sectional, Boundary and Topographical Surveys; Subdivision Layouts; Construction Stakeouts; Global Positioning Surveys; and Route Surveys.

Ms. Nobles specializes in the production of a finished digital product from electronically collected data utilizing Civil 3d and CAiCE software and quality assurance of all projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	**Capital Circle NW/SW, Leon County Tallahassee, Florida**	2004-2010	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	**[X]** Check if project performed with current firm	
	Principle-In-Charge for this full design topographic survey, right-of-way mapping and parcel mapping of Capital Circle NW/SW in Leon County, Florida.		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
b.	**TLH Master Plan Update/Obstruction Analysis Tallahassee Regional Airport, Tallahassee, Florida**	2006	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	**[X]** Check if project performed with current firm	
	Principle-In-Charge of this specific purpose survey for the line of site to the approach of both paths of Runway 9-27 and both paths of Runway 18-36 at the Tallahassee Regional Airport.		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
c.	**Leon County GPS/LIDAR Mapping Tallahassee (Leon County), Florida**	2008	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	**[X]** Check if project performed with current firm	
	Principle-In-Charge of this complete Blue Booking project involving GPS control network, target control and mapping check points for LIDAR mapping.		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
d.	**Tallahassee Regional Airport Approach Path Obstruction Survey, Tallahassee, Florida**	2004	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	**[X]** Check if project performed with current firm	
	Principle-In-Charge for this specific purpose survey for the location of obstructions in the line of site to the approach path of runway 9-27 on the east end.		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
e.	**I-20/I-285 High Occupany Vehilcle Lanes Fulton and Douglas Counties, Georgia**	2004	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	**[X]** Check if project performed with current firm	
	Principle-In-Charge for this project which consisted of a topographic aerial survey for addition of a high occupancy vehicle lane along Interstate 20 and Interstate 285 in the Atlanta area.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jason D. Hill, PSM	**Project Manager**	**23**	**2**

15. FIRM NAME AND LOCATION *(City and State)*
Diversified Design & Drafting Services, Inc. (Tallahassee, Florida)

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
AS, Edison Community College, 1990	Professional Surveyor and Mapper, State of Florida, No. 6008

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Hill has 23 years of experience in surveying and mapping, working primarily on all varieties of roadway projects. His experience encompasses: design surveys, right-of-way surveys, horizontal and vertical control surveys, topographic surveys; including utilization o9f electronic field book, jurisdictional delineation; geodetic surveys and construction layout surveys. 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.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	**US 98 from SR 540 to SR 540A Polk County, Florida**	2008	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[ ] Check if project performed with current firm	
	Project Manager for this full topographic and right-of-way survey for 4 miles of roadway. This survey included a full topographic survey for design purposes and right-of-way survey for acquisition purposes. Project cost = $454,000.00		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
b.	**Capital Circle NW/SW Leon County, Florida**	2009	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[X] Check if project performed with current firm	
	Project Manager of this multilane road widening project that included a complete topographic survey of this 500 foot roadway corridor; all vertical and horizontal control; roadway alignment; wetland delineation; sectional survey ties; and all parcel boundaries for right-of-way acquisition as well as mitigation sites. Project Cost = $926,651.94		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
c.	**Leon County/City of Tallahassee Stormwater Infrastructure Inventory Map, Phase 2, Tallahassee, Florida**	2011	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[X] Check if project performed with current firm	
	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. Project Cost = $441,876		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
d.	**SR 80 from Clark Street to SW Collins Street Ft. Myers, Florida**	2007	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[ ] Check if project performed with current firm	
	Project Manager for this full topographic survey for design purposes as well as a right-of-way acquisition survey of 2 miles of roadway. Project Cost = $414,000.00		
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
e.	**Panama City, Bay County Airport Panama City, Florida**	2010	
	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	[X] Check if project performed with current firm	
	Project Manager for this on-going 3 year project for the purpose of obtaining color infrared digital imagery, ortho-rectified, geo-referenced and tiled to the DOQQ index; in addition to oblique imagery captured every 6 months. Project Cost = $97,400.00		

3DS

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Sherry Brown	**Photogrammetrist**	**9**	**3**

15. FIRM NAME AND LOCATION *(City and State)*
Diversified Design & Drafting Services, Inc. (Pensacola, Florida)

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
Drafting & Design Technology (Specialization in GIS & CAD) Computer Electronics Information Technology	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Brown services as Operations Manager for the Photogrammetry office of Diversified Design & Drafting Services, Inc. (3DS). She has a wide range of experience in the field of Photogrammetry and has a technical degree as a Drafting and Design Technician specializing in CADD and GIS, and also holds a technical degree in Computer Electronics. She is proficient in Intergraph's soft-copy software, creating geo-referenced ortho-rectified mosaic images from aerial photography, Microstation, AutoCad, Terramodel, GeoMedia, and ArcGIS software. She also has extensive experience in GIS conversions of land-based mapping systems and processing GPS data to integrate into GIS databases.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
I-75/Wade Green to Woodstock Road
Gwinnett, Barrow & Colquitt Counties, Georgia

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
2008	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for this project for which we performed Aero-triangulation of a 1000' corridor of a 26 miles span of interstate I-75/I-285. We produced an ortho-rectified image for accurate placement of LAMP photo control targets at pre-determined locations. In addition to conventional mapping technology, 3DS also flew the project using helicopter LiDAR, drove the project using a mobile scanner, and acquired available VanGuard data. Project Cost = $313,097.79

b.

(1) TITLE AND LOCATION *(City and State)*
Panama City Airport
Panama City, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
2010	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for this on-going 3 year project for the purpose of obtaining color infrared digital imagery, ortho-rectified, geo-referenced and tiled to the DOQQ index; in addition to oblique imagery captured every 6 months. Project Cost = $97,400.00

c.

(1) TITLE AND LOCATION *(City and State)*
Monroe County GIS Database
Monroe County, Georgia

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
2007	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for this project for which we performed Aero-triangulation of 23 flight lines. We performed ortho-rectified and mosaic of the entire county and produced 5000' x 5000' geo-referenced tiled images for implementation into the county GIS database. Project Cost = $ 66,559.75

d.

(1) TITLE AND LOCATION *(City and State)*
Hurst Hammock
Pensacola, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
2008	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for this project for which we performed soft-copy Aero-triangulation of color infrared images flown for an environmental study and produced a large mosaic for presentation to local government and engineering firms. Project Cost = $ 13,500.00

e.

(1) TITLE AND LOCATION *(City and State)*
Jimmy DeLoach Connector
Georgia Port Authority

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
2007	

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Project Manager for this project which consisted of Aero-triangulation of color images produced ortho-rectified images and performed soft-copy data compilation around bridges, overpasses and ramps for data verification from land surveyors. Project Cost = $ 29,194.77

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Stephen J. Clancy	**Project Manager**	**9**	**1**

15. FIRM NAME AND LOCATION *(City and State)*

Michael Baker Jr., Inc., Baton Rouge, LA

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
B.S., 1998, Geomatics, University of Florida **Graduate Coursework, Geomatics, Interdisciplinary GIS, University of Florida**	**FL / Professional Surveyor and Mapper #6450**

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mr. Clancy is a Florida licensed Professional Surveyor and Mapper as well as a Certified GIS Professional with an extensive background in LiDAR, GPS and traditional surveying and mapping. In addition to serving in various capacities in surveying and GIS related activities, Mr. Clancy also has 5 years of University teaching experience in the fields of Geomatics, Photogrammetry and GIS. Mr. Clancy has a diverse and broad background in the Geospatial Sciences and most recently has been charged with the management of the operation of Baker's Mobile LiDAR system.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*: East Haven Subdivision; Houston, TX

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 | CONSTRUCTION *(If Applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[X] Check if project performed with current firm

Internal Client, Water Resources. Project Supervisor/Data Collection. Responsible for managing and collecting Mobile LiDAR data in a 1 square mile subdivision in Houston. Performed static and rapid static collection and processing to develop control framework for constraining collection. Processed trajectory of vehicle and reviewed positional accuracies in support of LiDAR processing. (Fee: $50,000)

b.

(1) TITLE AND LOCATION *(City and State)*: Florida Forever Ownership Mapping; Statewide, FL

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 | CONSTRUCTION *(If Applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Florida Department of Environmental Protection. Principle-in-Charge/Database Architect/Lead Mapper. Developed parcel and ownership database of lands within Florida Forever Project Boundaries. Compiled Project Boundaries and other ancillary data for use in creating maps for Project Teams for review. Developed document management system for storing and retrieving information for due diligence in the land acquisition process including deeds, plats, surveys, appraisals and site photographs. Created ArcIMS website on .NET framework for querying and displaying parcel ownership information. Developed seamless Image Catalog of high resolution photography for use in site assessment. (Fee: $300,000)

c.

(1) TITLE AND LOCATION *(City and State)*: Florida Forever Triage; Statewide, FL

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2009 | CONSTRUCTION *(If Applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Florida Department of Environmental Protection. Principle-in-Charge/Database Architect. Developed a statewide land acquisition analysis model used by the Division of State Lands to prioritize land acquisition decisions in the Florida Forever Land Conservation Program. The model includes 30 variables to compare and prioritize land use across the State's entire acquisition portfolio. The analysis is automated using the Model Builder in ArcGIS. (Fee: $150,000)

d.

(1) TITLE AND LOCATION *(City and State)*: Brevard Coastal Scrub Ecosystem; Brevard County, FL

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2002 | CONSTRUCTION *(If Applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Florida Department of Environmental Protection. Project Manager. Responsibilities included GPS control network planning and execution of static GPS survey utilizing 10 simultaneous field crews, GLO retracement surveying of 12 PLSS sections and location of all fixed improvements. Prepared ownership database of 6,000 parcels in project boundary that included parcel details and title work. Wrote custom Visual Basic applications to streamline mapping process including automatic labeling, table creation and area calculations. Created document management system utilizing GIS to compile deeds, descriptions, easements, plats and other pertinent documents. (Fee: $360,000)

e.

(1) TITLE AND LOCATION *(City and State)*: Land Records Modernization; Statewide, FL

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2008 | CONSTRUCTION *(If Applicable)*:

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

[ ] Check if project performed with current firm

Florida Department of Environmental Protection. Principal-in-Charge/Project Manager. Performed coordinate geometry on thousands of land records of the Board of Trustees of the Internal Improvement Trust Fund (Owner of record of State Lands – Governor and Cabinet) which included acquisitions, dispositions, easements, leases and other document types. Obtained any references mentioned in descriptions which included rights-of-way, deeds, plats, coordinates and obscure references. (Fee: $250,000)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
James R. Allen, PE	**Subsurface Utility Engineering**	38	11

15. FIRM NAME AND LOCATION *(City and State)*

Cardno TBE 725 SE Baya Drive, Suite 106 • Lake City, FL 32025

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*	
MA / Construction Engineering and Management	PE / FL / #65392	PE / VA / #0402
BS / Civil Engineering	021467 PE / AR / #11084	PE / MS / #16853
	PE / LA / #0033815	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

- American Society of Civil Engineers - member of ASCE Standards Committee responsible for the creation of the *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data* (CI/ASCE 38-02)
- Society of American Military Engineers
- American Society For Healthcare Engineers
- *Hospitals Using Sophisticated Underground Utility Locating Methods to Protect Life, Prevent Delays and Reduce Costs* Inside ASHE Vol. 17, No. 1, Jan-Feb 2009
- *Avoiding Underground Utility Conflicts* The Military Engineer, Vol. 90, No. 650, Nov – Dec. 2007
- *Avoiding Underground Utility Conflicts*, Power Engineering, Sept. 2007

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Deerwood Park Duval County, Florida	2009	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Manager – Cardno TBE provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $4,524**

b.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Capital Cascades Trail – Phase 1A Leon County, Florida	on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Manager – Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $57,108**

c.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Front Beach Road Bay County, F	2009	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Manager – Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $16,207**

d.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Olustee Creek Bridge Replacement Columbia County, Florida	on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Manager – Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. We are also providing Utility Coordination services. **Fee: $20,000**

e.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
I-10 Davis Scenic Route Final Design Escambia County, Florida	on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Manager – Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. We are also providing Utility Coordination services. **Fee: $65,678**

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Daryl I. Thie, PLS	**Subsurface Utility Engineering**	34	2

15. FIRM NAME AND LOCATION *(City and State)*

Cardno TBE 725 SE Baya Drive, Suite 106 • Lake City, FL 32025

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*	
BS / Land Surveying / 1981 / University of Florida	PLS / FL / #4179	PLS / LA / #5023

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

- Florida Surveying and Mapping Society
- American Congress on Surveying and Mapping
- National Society of Professional Surveyors
- American Association for Geodetic Surveying

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
I-10 Davis Scenic Route Final Design
Escambia County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Surveyor - Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. We are also providing Utility Coordination services. **Fee: $65,678**

b.

(1) TITLE AND LOCATION (City and State)
Capital Cascades Trail – Phase 1A
Leon County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Surveyor - Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $57,108**

c.

(1) TITLE AND LOCATION (City and State)
Olustee Creek Bridge Replacement
Columbia County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
on-going	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Surveyor - Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. We are also providing Utility Coordination services. **Fee: $20,000**

d.

(1) TITLE AND LOCATION (City and State)
Front Beach Road
Bay County, F

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2009	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Surveyor - Cardno TBE is providing designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $16,207**

e.

(1) TITLE AND LOCATION (City and State)
Deerwood Park
Duval County, Florida

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2009	NA

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Task Surveyor - Cardno TBE provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical location of underground utilities within the project limits. **Fee: $4,524**

Project Experience

Project List

NCG has attached 10 SF 330's to illustrate the range of experience of the firm and the list of current contracts.

Professional Excellence

The NCG team offers the County an unparalleled group of professionals providing professional mapping services throughout the United States, its territories, and possessions. We believe that the owners and team members have exhibited their leadership qualities in their field and clearly demonstrate the highest levels of Professional Excellence.

Meeting Standards

NCG is current in all known standards required for surveying and to provide the needed data requested. All work shall be accomplished in accordance with the County's scope for services and in accordance with the minimum standard for Professional Surveyors and Mappers, Chapter 472.027, Florida Statutes, Chapter 177, F.S., Department of Environmental Protection rules governing Mean High Water and Jurisdictional Line surveys and any special instructions from the Department. If needed, the survey work can also comply with the Florida Department of Transportation (FDOT) Location Survey Manual Topic No. 550-030-100, Highway Field Survey Specification Topic No. 550-030-001, Automated Survey Data Gathering Topic No. 550-030-030, Outline Specification for Aerial Surveys/Photogrammetry for Transportation Projects Topic No. 550-020-002, Right of Way Mapping Topic No. 550-030-015 and Roadway and Traffic Design Standards (Index Series 600). Survey crews also will comply with the required MOT (maintenance of traffic) training for field crews working within FDOT right-of-ways.

NCG is also a certified trainer for a lot of these standards from the State of Florida along with Railroad safety training for CSX and Northfolk Southern railroads.

Special Resources

NCG team has provided information below on conventional resources and new resources that may serve the County greatly to them at their disposal.

Real Estate & Property Surveys

A main focus of NCG is providing surveying services on large scale survey projects in the Southeast and has years of knowledge in providing boundary surveys.

The following paragraphs describe, in brief, the team's overall approach to providing boundary surveying services:

Lands surveyed that are part of the United States Public Land Survey System (PLSS) will be surveyed as "Dependent Resurveys" in conformance with the Government Instructions in place at the time of the original survey and the methods actually used by the Government Deputy Surveyor in the field. As needed, the 2009 Manual of Surveying Instructions, published by the Bureau of Land Management or previous editions of "The Manual" will be consulted."

Other lands surveyed, including those lands lying in states that were not surveyed under the instructions of the BLM, will be surveyed in harmony with individual state land surveying statutes and other regulations.

PLSS Surveying General Field Procedures:

Section line ties (including ¼ section lines and government lot lines) will be performed using the Global Positioning System (GPS) Methods.

Initially, all possible records that may assist in recovering the corners are obtained, including:

- Government field notes and plats, any record plats adjacent to any fractional corners, and certified corner records are researched.
- Aerial photography and tax maps will be reviewed for corner reconnaissance, parcel layouts, and to obtain a project overview.
- Private surveys from local surveyors and city and county governments are secured.

When this information is assembled, the field work will commence. Each corner, if recovered, shall be referenced and located all during the same visit. If the corner is not found or able to be determined at this time, control for the subsequent recovery or re-establishment of the corner may be set. NCG has found that completing these tasks during the initial visit saves costly return trips to the field.

If a corner cannot be observed directly with GPS, three GPS points will be set nearby. Angles will then be turned from two of the points to the corner while back sighting the third point. The distances between all three GPS points are also measured. This method provides redundancy that ensures that the correct location of all the GPS points and the corner has been established.

Once these measurements are complete, comparisons are made between the GPS geometry and the Government notes, record plats, private surveys, metes and bound descriptions, and right of way maps to determine the proper corner location and to check the accuracy of the geometry.

A combination of traditional surveying methods, laser scanning and aerial based techniques will be utilized to accomplish tidal surveys and details showing beach profiles including: topography, near-shore bathymetry, shallow water bodies, levees, canals, breakwaters, groins, embankments, and other similar structures. These surveys will incorporate the use of breaklines and significant features, along with the required density of spot elevations (50' grid, 100' grid, etc.) determined by individual specifications for each project site. The NCG team members are experienced at combining various types of bathymetric data to provide complete topographic surveys.

The NCG team will make full use of modern differential GPS, digital echo sounders and sophisticated hydrographic surveying software to allow large volumes of data to be collected and surveyed efficiently. Full DTMs will be provided from which profiles can be generated at desired locations and orientations to maintain consistency with historical data.

For all projects, on-site project control points will be set and referenced to published NGS stations or other existing project control, as provided, to establish appropriate horizontal and vertical datums on each project site.

Project data will be collected in the required format (ASCII files, CAD files, other databases, etc.) and provided to the client as required by the scope to ensure it can be readily integrated with all other project related data.

Information collected will include sufficient additional data necessary to perform independent quality assurance checks to ensure the required accuracy of the products being provided to the client are met.

Construction Related and Alignment Surveys

The NCG team has been providing construction surveys for over 30 years from small building sites to full Interstate construction. Team members are pre-qualified to provide surveying for Florida Department Of Transportation (FDOT) and Georgia Department Of Transportation (GDOT) CEI (construction & engineering inspection) on large projects covering most of Florida and Georgia. Team members have also completed numerous roadway projects that fall under FDOT & GDOT "Full 3D Design" that have wetland mapping, sectional surveying, control surveying, alignment surveys, TIITF easements and detailed Right of Way mapping. All of these projects also require revisions and updates of the mapping as the projects are completed.

Survey Grade GPS Surveys

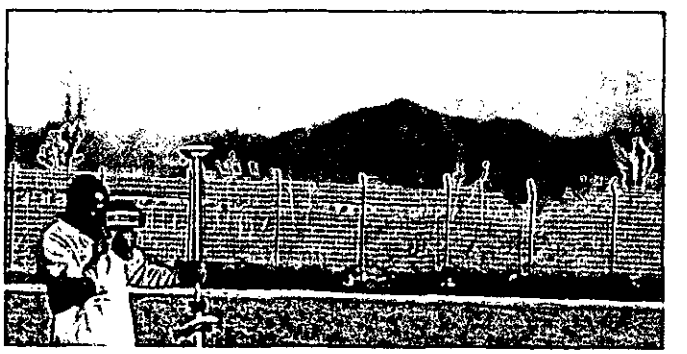
The NCG team is currently performing multiple types of GPS projects and has recently completed a variety of projects from "Blue Booking" county GPS control networks, State-wide control networks for LiDAR mapping to locating miles of wetland sites using GPS unit with beacons. NCG has maintained the in-house staff that "Blue Booked" GPS control networks in the State of Florida for the past ten years. The NCG team has one of the largest GPS equipment inventories in Florida from solo base stations, mapping grade GPS units (wetland mapping) to full RTK units working with statewide networks such as FDOT's network. NCG has performed testing for the FDOT's GPS network and maintains a CORS station tied into the FDOT network.

The following paragraphs describe in brief our overall approach to providing GPS survey control mapping.

Identification of Existing Monuments and New Control Points

Based on the control requirements identified in the project planning phase, existing permanent monuments are recovered and serve as the mapping reference network. New control points are referenced to the client specified coordinate system. Temporary control points will be established such that they can be attended should it become necessary.

Field Data Capture of Control Points



The points will be located by survey personnel and final placement of these points will be confirmed and approved by the project's PLS; they will mark each point by semi-permanent monumentation, and a complete point description will be made. A sufficient number of National Geodetic/Spatial Reference System (NGRS/NSRS) monuments will be included in the network to assure that the specified horizontal and vertical accuracies will be achieved. There are six generally recognized industry standards used for specifying spatial mapping products and resultant accuracy compliance criteria:

- Office of Management and Budget (OMB) United States National Map Accuracy Standards (NMAS)
- American Society of Photogrammetry (ASP) Specifications for Aerial Surveys and Mapping by Photogrammetric Methods
- U.S. Department of Transportation (DOT) Surveying and Mapping Manual Map Standards
- American Society of Photogrammetry and Remote Sensing (ASPRS) Accuracy Standards for Large Scale Maps
- American Society of Civil Engineers (ASCE) Surveying and Mapping Division Standards
- U.S. National Cartographic Standards for Spatial Accuracy
- USDOC National Geodetic Survey (NGS)
- National Spatial Reference System (NSRS)
- Federal Geodetic Control Subcommittee (FGCS) Standards and Specifications

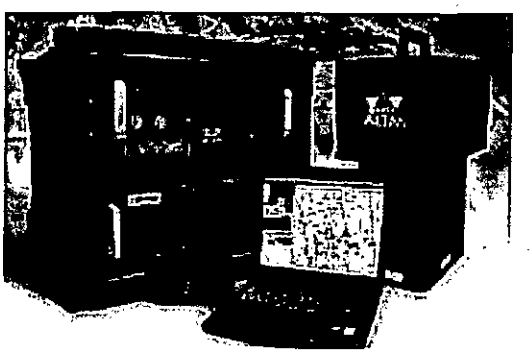
Depending on the type of survey conducted and data use, the team will follow the appropriate guidelines and specifications. Upon completion of this phase, the locations will be plotted and a network vector diagram will be designed in accordance with FGDC guidelines concerning redundancy and repeat baseline measurements. Trimble's TRIMVEC-PLUS Mission Planning Software or Leicas availability software is used to design the optimum GPS observation sessions. A minimum of four Trimble Surveyor Geodetic GPS Receivers or Leicas Geodetic GPS receivers are deployed for measurements. Each observer is given descriptions of the points to be surveyed each day, including log sheets indicating start and stop times for each session and point designations. The observers will also be given local maps and specific instructions relevant for the day's work. The Team uses Static GPS technology on a routine basis for establishing and verifying survey control. The Team has experience in both single and dual frequency observations, vector processing, and network adjustments. Survey control reports will be produced in accordance with the requested standards.

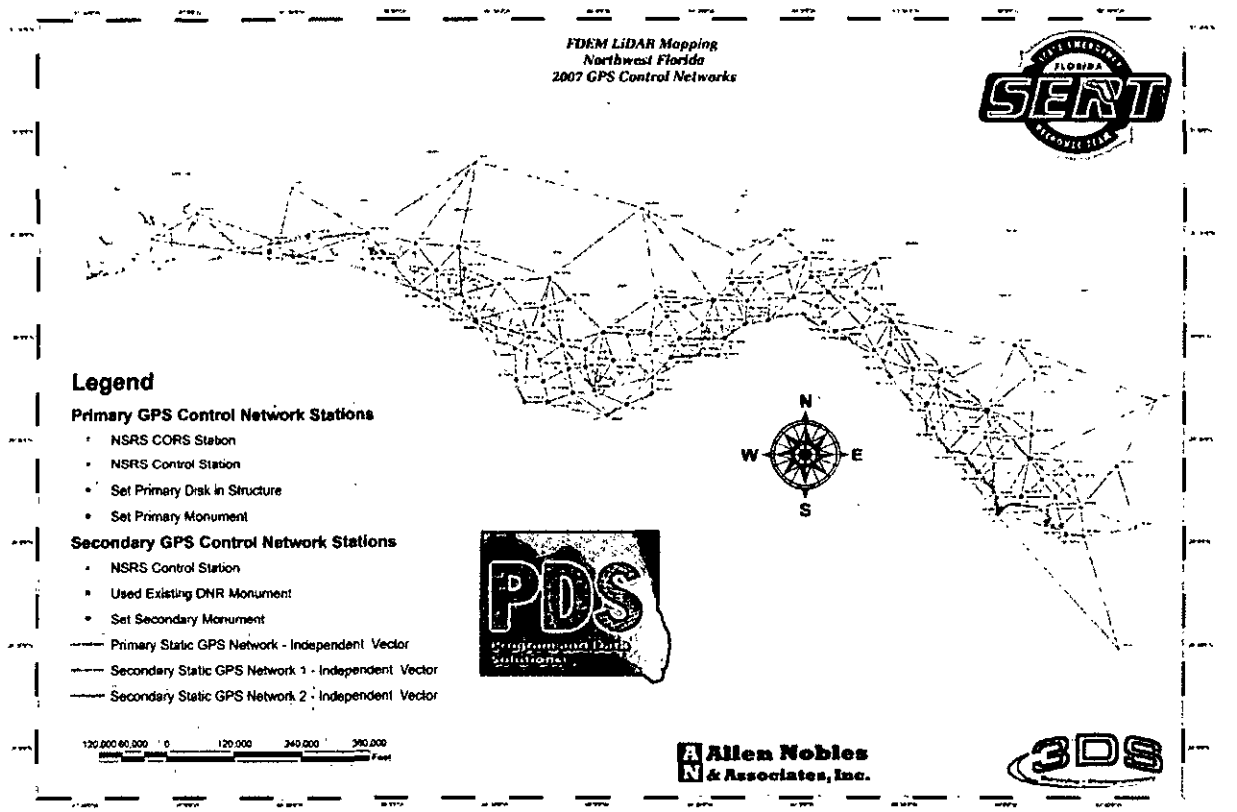
Aerial Mapping

The NCG team has provided aerial photogrammetric services for a wide range of clients including the USGS, U.S. Army Corps of Engineers (USACOE), U.S. Naval Facilities Engineering Command (NAVFAC), state entities such as the Department of Transportation and large utility companies.

LiDAR Projects

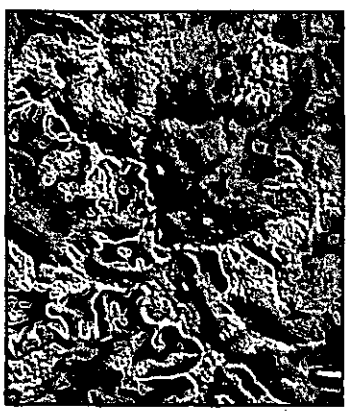
One of NCG's most recent project examples pertains to work done for the Division of Emergency Management, as the Division received funding to update all 11 regional evacuation studies in Florida. As part of the process, new coastal LIDAR data was gathered to update coastal surge/flood modeling tools including SLOSH. NCG was on the team contracted to provide the LiDAR mapping for the Apalachicola SLOSH Basin which covers over 5000 square miles of Florida Coastline. NCG was responsible for providing ground control along with establishing check points to help verify the accuracy of the LiDAR mapping. The project resulted in the most comprehensive horizontal/vertical control network in North Florida.





DEM Compilation

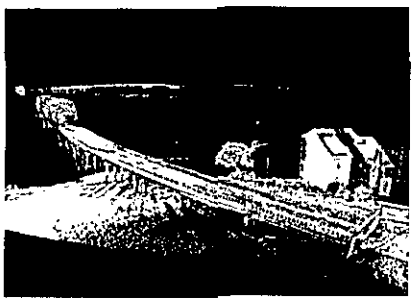
The NCG team's topographic mapping capabilities also include DEM compilation. The team members routinely perform stereocompilation for DEM densification, breaklines and mass point collection and DEM quality control for second generation orthophoto development. Stereocompilation is essential in the development of true-orthos. The surface models for true orthos must fully and accurately depict the tops and bases of all structure and intense mass point and breakline densification is performed to provide a precision surface.



LIDAR Interchange Format (LAS)

The NCG team is fully capable of providing LiDAR in ASPRS LAS v 1.2 file format and adheres to the standards presented by ASPRS regarding file formatting, classifications, headers, data types, encoding, etc. The NCG team also has experience in combining LAS files from LiDAR mapping with ground base laser scanning files.

Terrestrial HDS (High Definition Surveying)

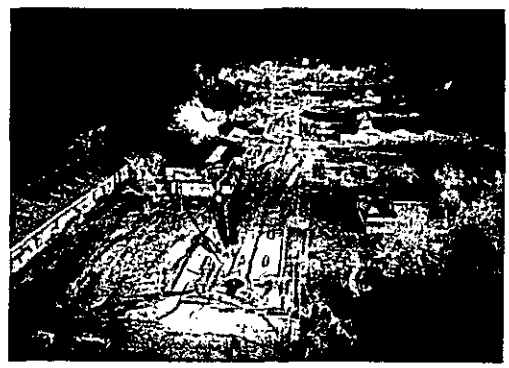


Terrestrial laser scanning or HDS (high definition surveying) has been available for many years, but the technology has emerged over the last few years as a beneficial production tool for the surveying community. The NCG team has been in the forefront of working with this technology and is currently providing a full range of services using HDS scanners. The team has provided scanning services covering most of the Southeast including roadways, plant sites, bridges, office buildings, airports and mining sites.

The team is using Leica ScanStations that are capable of producing huge datasets in a very short time frame (average of 2 million points in 15 minutes). NCG has designed and established efficient and effective workflows to insure and deliver the anticipated results required.

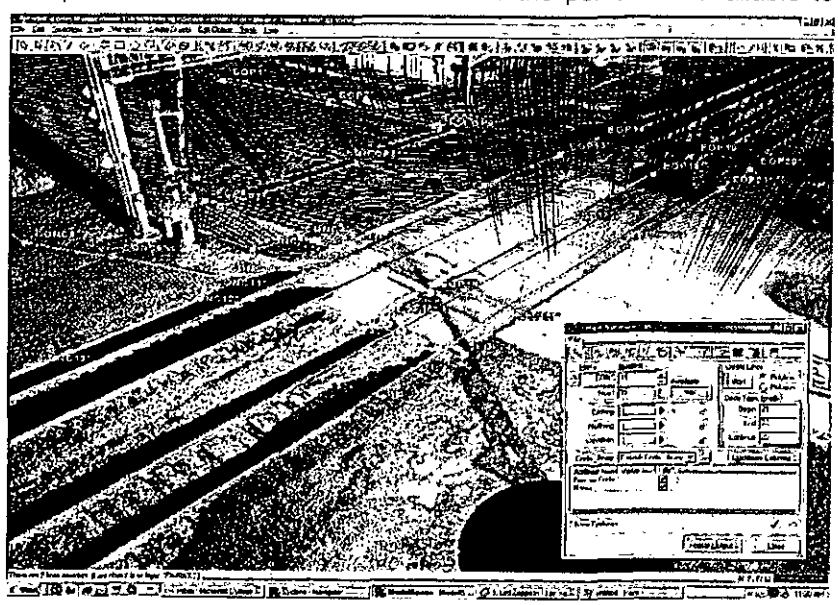
Point Clouds

The point data collected contains the X, Y, Z values of each point along with the intensity values (surface characteristics) returned to form a dataset called a "point cloud". The point cloud provides information that can show the size, shape, form, location, and some of the characteristics of the objects scanned. For most projects, a digital image is also collected that can be used to apply true color to the point cloud to aid in the visualization of the objects in the field of view.



Point Cloud Files:

To use the point cloud data, NCG uses Leica's Cyclone software for point cloud registration and then CloudWorx and Cyclone II Topo as the main data extraction softwares. Cyclone is used in the registration process and to format the point cloud data. CloudWorx makes the point data available to CAD platforms such as AutoCAD and MicroStation for visualization, measurement, and modeling. NCG uses Cyclone II Topo to work within the point cloud to extract conventional survey data in the office accurately and cost-effectively. The scanner collects huge amounts of data and virtually eliminates the need to re-visit a site. For sites with limited access, this has reduced project time at the site by as much as 80%. NCG can also process the data to provide solid models of objects and features such as pipes, utility poles and boxes, and buildings or mix the point cloud data with other datasets such as LiDAR files (LAS file



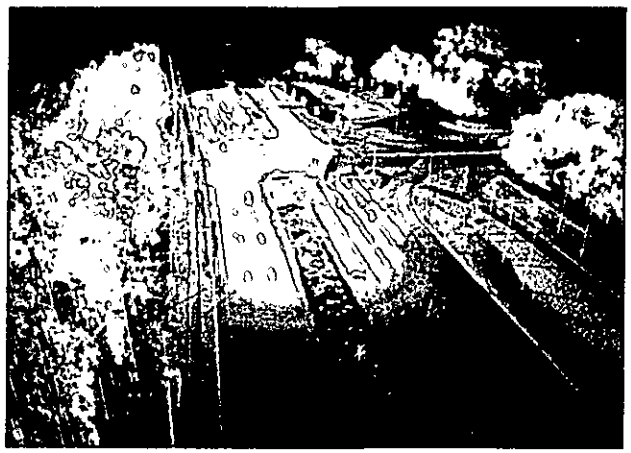
Cyclone II Topo (Virtual Surveyor)

format).

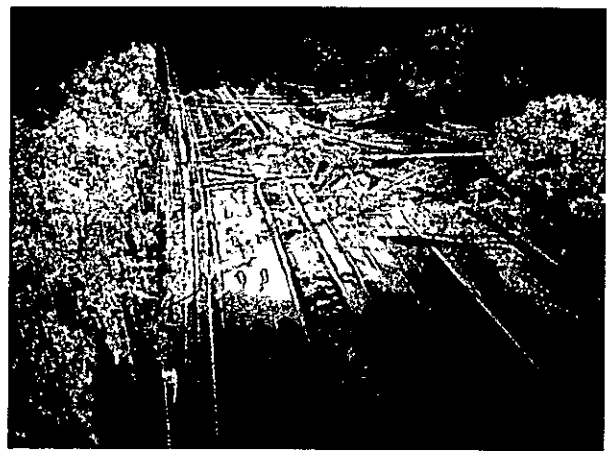
The scanner collects an enormous amount of collateral data at the time of field survey that can be used by many other Departments within the State at little or no additional cost. The safety factor provided by the scanner on specific projects (busy roadways, inaccessible points, restricted areas, etc.) make the scanner a clear choice over the use of conventional survey methods.

Finished Files and Deliverables

NCG can provide completed surveys in industry standard formats and output the HDS data in various formats to a wide range of software applications. Surveys can be delivered in AutoCAD or MicroStation formats. The extracted data and features can be exported to DXF files, XYZ and intensity files, LandXML files and a variety of user defined ASCII formats. Data extracted with Cyclone II Topo can be exported as a Field Book File (FBK) to create raw data files similar to TDS and Carlson formats.



Point Cloud with intensity return

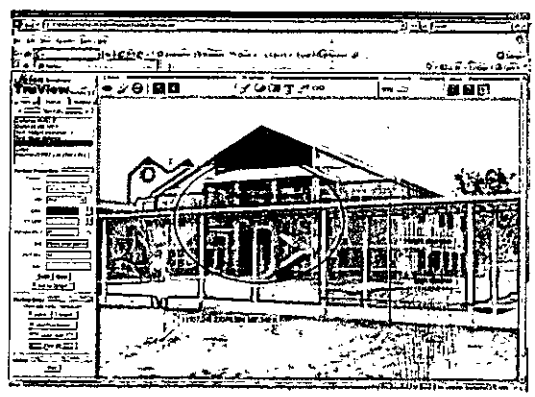


Point Cloud with Photo Colored Points

The use of HDS surveying can also be valuable if presentations of detailed areas are needed. This technology works very well for public meetings and can provide an actual view of roadway details and planned changes that the public can both see and understand. The scanner collects an enormous amount of collateral data at the time of field survey that can be used by many other Departments within the District at little or no additional cost. The safety factor provided by the scanner on specific projects (busy roadways, inaccessible points, restricted areas, etc.) make the scanner a clear choice over the use of conventional survey methods.

TruView Files

NCG can publish the finished point cloud datasets as Leica TruView data file that allows end users to use a free plug in software to view the data in a 360-degree (panorama type) format. The user can do measurements, zoom in and out, pan around, and make comments that can be e-mailed between users.



Mobile LiDAR

Baker owns and operates the most innovative and productive surveying and mapping solution using Mobile LiDAR (Light Detection and Ranging) technology. Employing technological advancements that

facilitate data-capture from a vehicle travelling at highway speeds, Baker's system provides a cost-effective and efficient method to acquire survey grade measurements. The deployment of Mobile LiDAR technology demonstrates Baker's commitment to continuously develop innovative and sustainable solutions.

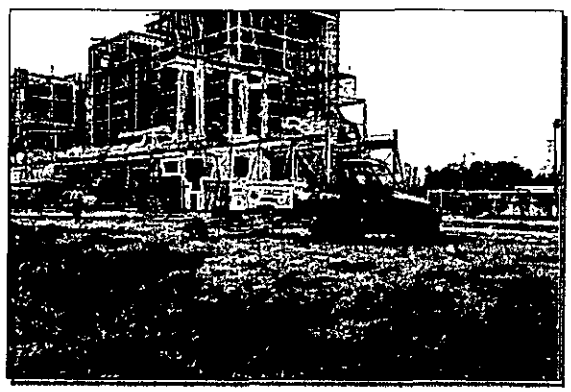
Although the types of surveys performed for the Bureau are not always favorable to the use of Mobile LiDAR, there are instances where this technology would provide an effective solution. There have been projects in the past that have needed a survey solution not capable with traditional survey crews due to time and budget constraints. Larger projects or those that have extensive amounts of improvements or roadways (for example Yellow River Ravines, Florida Keys Ecosystem and several small holdings sites) could benefit from the application of this instrument. The Rails-to-Trails program would be another example of where this vehicle would excel versus traditional methods.

The NCG team provides database development on a variety of platforms, GIS customization for in office, web, and field deployment through handheld devices and is an ESRI Authorized Business Partner.

Using ESRI's ArcGIS software, the Production Line Tool Set (PLTS) extension, the PLTS Aeronautical Solution and ArcSDE in an Oracle database environment, the NCG team updates and maintains charts in a database-driven, highly-automated process. This project requires an in-depth understanding of aeronautical charts, topology structures and data structures. By performing maintenance work in an all-digital format, there is a great reduction in delivery time and labor costs while maintaining a high-quality product.

Underground Utilities

Cardno TBE provides clients the highest quality Subsurface Utility Engineering, Three-Dimensional Underground Imaging, professional Utility Coordination, Utility Design and Surveying and Mapping services available.



Cardno TBE began providing Subsurface Utility Engineering in 1993. Annually, Cardno TBE successfully completes, on average, 11,000 test holes and 5,000,000 linear feet of designating. We have more Subsurface Utility Engineering professionals, equipment and vehicles than any other engineering and design firm, making Cardno TBE the largest Subsurface Utility Engineering provider in the world.

Cardno TBE's staff includes professional, registered surveyors and engineers, survey technicians and field crews. Each associate is focused on maintaining cutting-edge, quality service. Using sophisticated equipment and technology, our professionals prepare 2-D maps and/or 3-D digital files as needed for the task at hand. Applications include federal, state, county and city government continuing service contracts and stand-alone private and public projects.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 1

21. TITLE AND LOCATION *(City and State)*

Anderson Columbia, Co. Inc.
Quincy, Florida

22. YEAR COMPLETED
PROFESSIONAL SERVICES: 2007
CONSTRUCTION (If applicable):

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Anderson Columbia, Co. Inc.	Scott Cleveland	(386) 752-7585

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

NCG prepared a Specific Purpose Survey for Anderson Columbia, Co. Inc. of a proposed 324-acre mining operation located on Ocklawaha Creek Northwest of Lake Talquin in Gadsden County, Florida. Survey showed certified acreage of the uplands and wetlands.

NCG worked with Florida Environmental and Land Services (FELSI) who prepared an Environmental Survey Report for permitting of the project. FELSI staff delineated 6.1 miles of wetlands associated with Ocklawaha Creek, Todd Branch and an unnamed tributary on the site. Due to the linear nature of the ravine seeps, streams and bottomlands (floodplain) the 6.1 miles of wetland line only totaled 98.4 acres.

Steep terrain and dense canopy associated with the ravines and bottomland limited the use of GPS to locate the wetland line. A combination of survey methods was used to ensure the accuracy of the certified acreage shown on the survey. A static GPS network was established on permanent control points within the project. Conventional survey traverses along a monumented witness line were established from the network control. A *total of* 453 wetland flags were surveyed from these witness lines.

Wetland Mapping

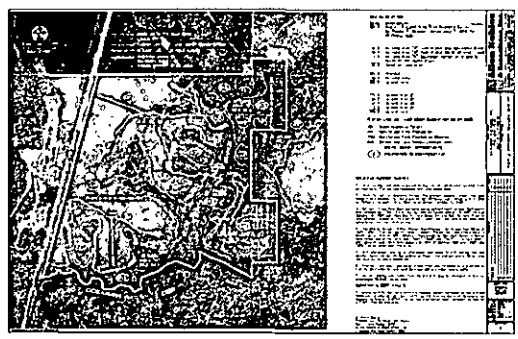
- **Ravines and Floodplain**
- **Steep Terrain**
- **Dense Canopy and Underbrush**
- **Control Network**
- **Conventional Survey Traverse**
- **Monumented Witness Line**
- **6.1 Miles – 20 days**

Time restraints required a quick completion of the survey. Using multiple survey crews NCG completed the survey in 20 days.

Retracing the wetland line can be readily done from the monumented survey witness line during the permitting, construction or subsequent detailed Boundary Survey of the wetlands.

Nobles Consulting Group prepared a Specific Purpose Survey to show certified acreage determination of wetland and upland areas of the property.

Survey Cost $22,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Survey Consultant
B.	(2) FIRM NAME: Florida Environmental and Land Services (FELSI)	Tallahassee, Florida	Environmental Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 2

21. TITLE AND LOCATION *(City and State)*
Capital Cascades Trail Segments 3 and 4 Limited Topographic and Design Survey – Tallahassee, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2008-2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Blueprint 2000 & Beyond Intergovernmental Agency	Alisha K. Wetherell, P.E.	850-553-3500 Alisha.Wetherell@kimley-horn.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

Blueprint 2000 and Beyond is the intergovernmental agency that is charged with the Capital Cascades Trail and Capital Cascades Park Projects. Capital Cascades Trail Segments 3 and 4 are the westerly and southerly legs of the project that tie the improvements at Capital Cascades Park to the trail system at Lake Henrietta and the Central Drainage Ditch. The corridor runs westerly along the St. Augustine Branch then turns southerly along the Central Drainage Ditch, tying into the Western Drainage Ditch just north of Lake Henrietta. The design survey was originally undertaken in 2008. Due to economic uncertainty the original project scope was curtailed. NCG worked as a survey subconsultant to Kimley-Horn and Associates to provide them with existing conditions topographic, drainage and utility information for the main corridor, including a 3-D digital terrain model of the project. In addition staff gauges were set along the project to aid in monitoring rainfall and flood events within the project. NCG has added tree surveys and additional proposed pond site topographic information to our original survey over the last two years as the design has progressed. NCG has established the project horizontal and vertical control points which are being used by City of Tallahassee Survey as a base for other projects in the area.
Total Survey Cost to date: $208,775

Relevant Information

- **Survey for Multimodal Trail / Corridor**
- **3.15 miles, parallels Tallahassee Drainage Sloughs**
- **Connectivity to St Marks Trail**
- **Connectivity to Capital Cascades Trail Segment 2**
- **Tree Surveys to City of Tallahassee Standards**
- **Several Survey Updates as Design Progresses**
- **Set Staff Gauges to Monitor Water Elevations**
- **Set Master Survey Control for use by City Crews**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Survey Subconsultant
B.	(2) FIRM NAME Kimley-Horn & Associates, Inc.	(2) FIRM LOCATION (City and State) Tallahassee, Florida	(3) ROLE Engineer of Record

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **3**

21. TITLE AND LOCATION *(City and State)*

Alfred B. Maclay Gardens, Visitors Center
Tallahassee, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2007	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
FL Dept. of Environmental Protection	Richard Reinert	(850) 488-5372

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

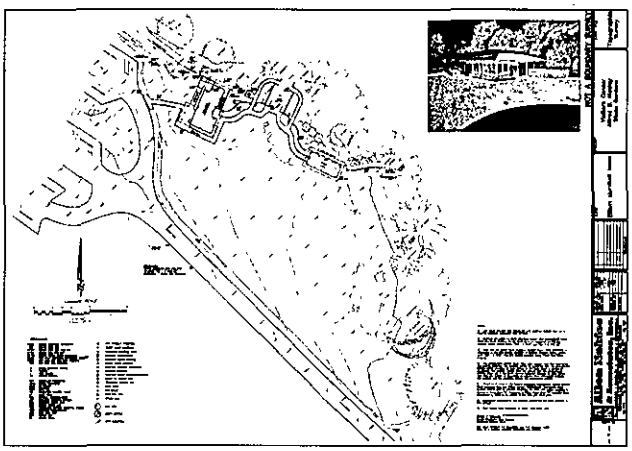
Nobles Consulting Group, Inc. prepared a topographic survey for the demolition of the existing Visitor's Center and the design of a new Visitor's Center.

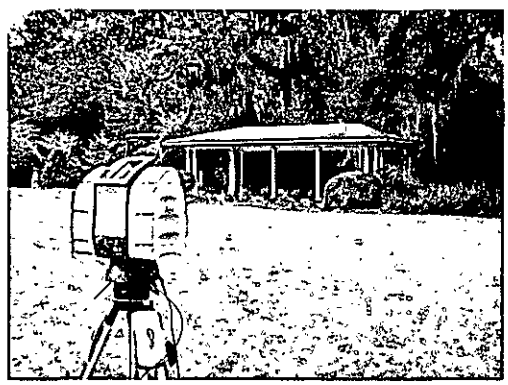
A Leica ScanStation was used to collect 90% of the survey to prepare the existing conditions survey in half the allotted field time. The 3D point cloud was geo-referenced to on site State Plane Coordinate and vertical control to provide the engineering team with an accurate topographic survey. Leica Cyclone software was used to register all scanned data and extract topographic features such as edges of pavement, edges of walks, building locations and dimensions, and tree canopy limits.

The final product were prepared and delivered in AutoCAD. Project Cost $5,600

Relevant Information

- **Speed of Data Collection**
- **Dense data sets**
- **Safe, non-contact data capture**
- **Photo Realistic 3D data**





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Consultant
B.	(2) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 4

21. TITLE AND LOCATION *(City and State)*
Replacement of Bridge No. 554001 over Branch of St. Marks River on Natural Bridge Road Tallahassee, FL.

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Florida Department of Transportation	Michael Woodard, P.E.	(850) 656-9027 mwoodard@hwlochner.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

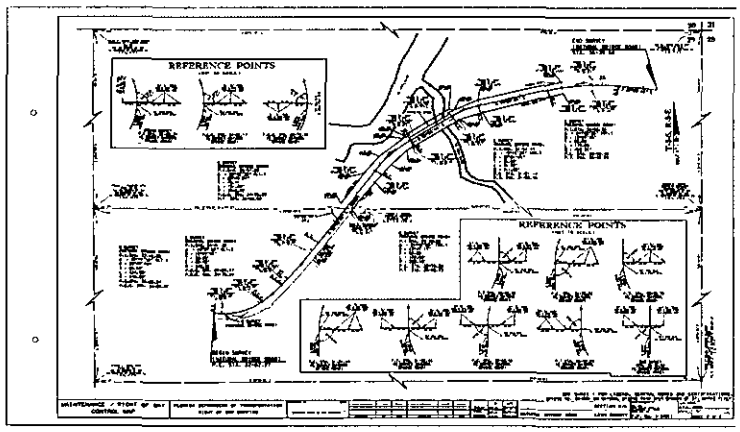
Project Features

The Florida Department of Transportation's project (Financial Project ID 413491-1-32-01) called for the replacement of the off-system bridge on Natural Bridge Road. NCG worked as the survey subconsultant for the H.W. Lochner design team. The bridge is located adjacent to the Natural Bridge Historic Battlefield and the first order springs that feed the St. Marks River. Due to the sensitive nature of this site much care and forethought was undertaken in tasking and performing the survey. A full 3-D topographic survey of the area was undertaken including a tree survey within the limits of construction, a channel survey for bridge hydraulics purposes and a Right of Way Control Survey that involved a dependent resurvey of a portion of Section 29, Township 2 South, Range 2 East. Deliverables included topography, drainage information, utility information and a digital terrain model for use in the design of the new structure. A Maintained Right of Way / Control Survey Map and a Surveyor's Report were created as part of the contract. An easement to the Trustees of the Internal Improvement Trust Fund is to be undertaken once the final right of way requirements have been established.

Total Survey Project Cost: $101,160

Relevant Information

- **Survey for Bridge Replacement**
- **Historically Significant Site**
- **Environmentally Sensitive Site**
- **Tree Survey to Leon County Standards**
- **Preparation of Maintained Right of Way Map**
- **Preparation of TIITF Perpetual Easement**
- **Preparation of Certified Corner Records**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Survey Subconsultant
B.	(2) FIRM NAME H.W.Lochner, Inc.	(2) FIRM LOCATION *(City and State)* Tallahassee, Florida	(3) ROLE Engineer of Record

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION *(City and State)*

Tower Road Park

Tallahassee, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2009	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Leon County Parks & Recreation	John Ward	(850) 606-5022

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

Nobles Consulting Group, Inc. prepared a boundary and topographic survey of this 5 acre park for the design of improvements.

A control traverse was referenced to Florida North State Plane Coordinates and used to locate all relevant boundary property corners and right of way markers.

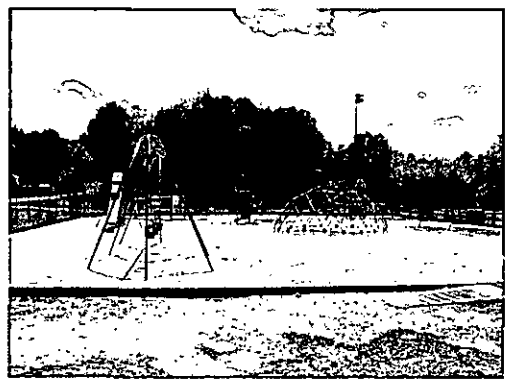
The topographic survey was based on the North American Vertical Datum of 1988. All existing on site improvements were located, including playground equipment, fences, facilities, and utilities. Grade shots were taken on an approximate 50-foot grid, including breaks, to provide 1-foot contours. All on site trees 6" and greater where tagged, numbered, and field located.

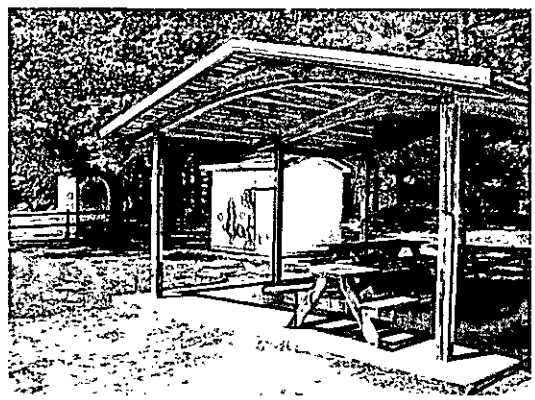
The survey was produced using ACAD Civil3D.

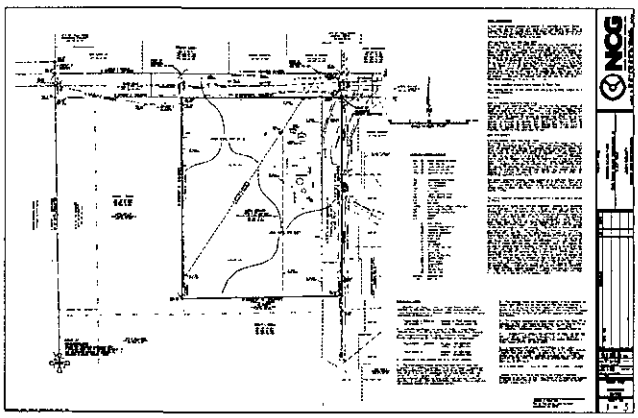
Project Cost $6,200

Relevant Information

- **Boundary Survey**
- **Topographic Survey**
- **Utility Survey**
- **Tree Survey**
- **Referenced to State Plane Coordinates**







25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Sub-Consultant
B.	(2) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **6**

21. TITLE AND LOCATION *(City and State)*

Southwood Plantation

Tallahassee, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St. Joe Land Company	Abraham Prado	(850) 402-5148

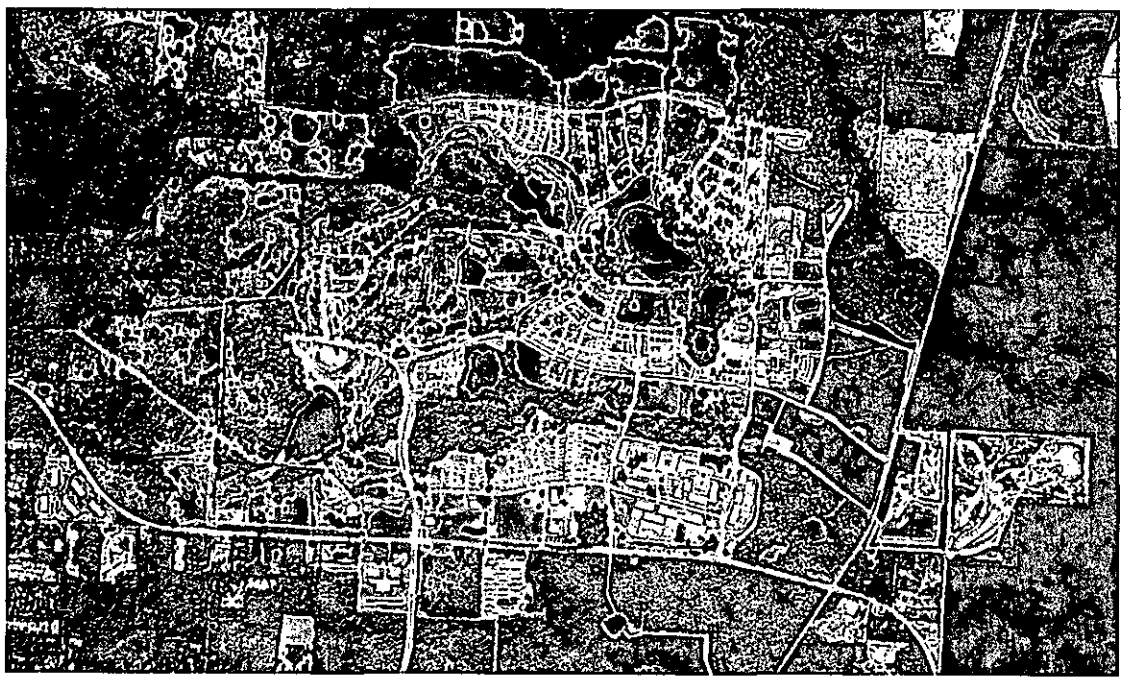
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

NCG provided geodetic control network, wetland location (19.3 miles/101,950 ft.), boundary and design surveys for development of St. Joe's Southwood 3,200 acre site. Subdivision preparation and platting for residential and commercial phases. Prepare individual surveys on tracts or lot for construction and mortgage purposes, maintain drawing database of all recorded instruments.

Relevant Information

- **Boundary Surveys**
- **Control Surveys**
- **Residential Construction**
- **Subdivision Platting**
- **Topographic Surveys**
- **Tree Surveys**
- **Wetland Locations**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee, Florida	Prime
B.	(2) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 7

21. TITLE AND LOCATION *(City and State)*

Linene Woods Subdivision

Tallahassee, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2009	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Linene Woods Homeowners Assoc.	Russell Large - Inovia Consulting, Inc.	(850) 298-4213

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

Project Features

Located property boundary corners, ran elevation bench loop through site, topographic survey of 9000 linear feet of roadway, topographic survey of 4100 linear feet of drainage ditch, located utilities, driveways, prepared easement sketches and descriptions for drainage and additional right of way.

Project Cost $52,900.00

Relevant Information

- **Property boundary ties**
- **Bench loop along road rights of way**
- **Topographic survey 9000 LF of roadway**
- **Topographic survey 4100LF of drainage easement**
- **Prepare survey drawings for permits**
- **Prepare sketches and exhibits for additional right of way**
- **Prepare sketches and descriptions for drainage easements**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee Florida	Surveyor of record
B.	(2) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **8**

21. TITLE AND LOCATION *(City and State)*

Tallahassee Museum of History and Natural Science – Tallahassee, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Tallahassee Museum of History and Natural Science	Russell Daws	(850) 576-2531

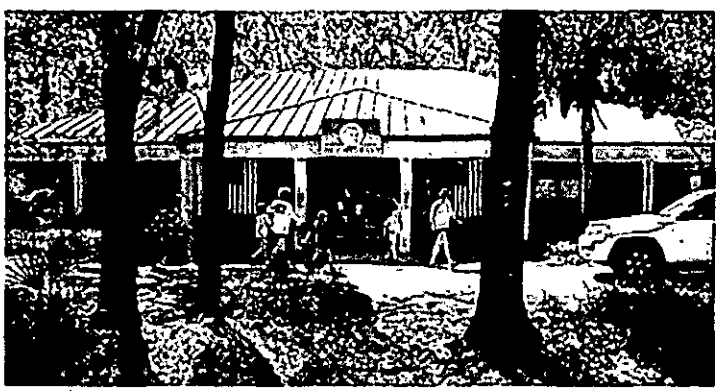
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

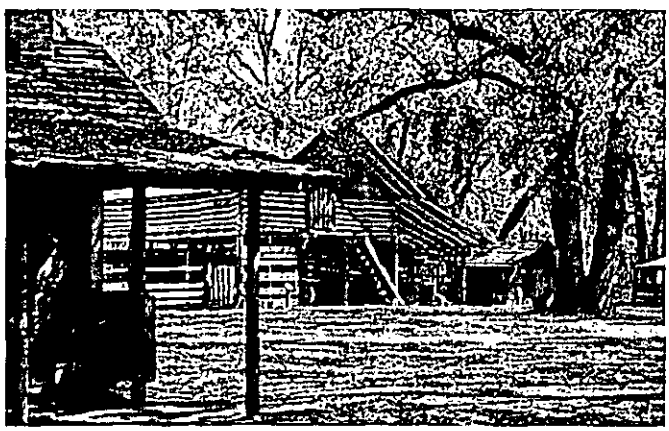
Project Features

Boundary survey of 31.43 acres, topographic survey from ground shots and LIDAR, tree survey. Establish State Plane Coordinates on the property. Location of all historical, educational, and administrative buildings, location of animal habitats, location of farmhouse and farm buildings, location of all walks and boardwalks through the habitat area, locate all parking, and utilities. Locate ordinary high waterline of adjacent Lake Bradford for delineation between private and State owned lands. Provide description of uplands acreage.

Relevant Information

- **Boundary survey 31.43 acres**
- **Topographic survey with ground shots and LIDAR**
- **Location of historic, educational and administrative buildings**
- **Location of Animal habitats**
- **Location of all walkways, and boardwalks through the habitats**
- **Location of ordinary high water line of Lake Bradford**
- **Establish on State Plane Coordinates**





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
A.	NCG NOBLES CONSULTING GROUP, INC.	Tallahassee Florida	Surveyor of record
B.	(2) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **9**

21. TITLE AND LOCATION *(City and State)*

Thomas P. Smith WRF Improvement Project
Tallahassee, FL

22. YEAR COMPLETED

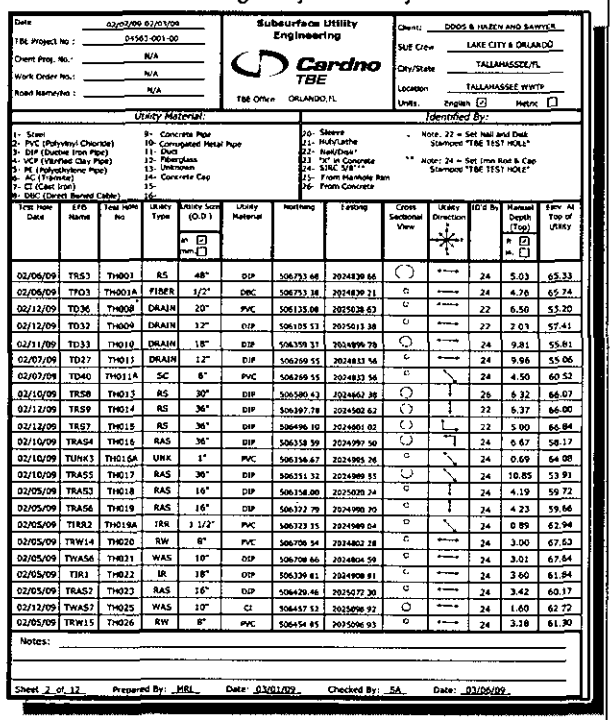
PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
2009	NA

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Tallahassee Water Utilities Department	Pam Nobles, PSM *Cardno TBE client*	850.385.1133

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost):*

Cardno TBE provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical position of underground utilities within the project limits of this plant expansion project. We mapped approximately 110,000 linear feet of underground utilities within the 30 acre design site and completed 217 conflict test holes to identify and facilitation the relocation of existing subsurface utilities. In addition, Cardno TBE provided Surveying and Mapping services which included minor densification of temporary traverse control and mapping the storm-water and gravity sewer systems within the plant. Our Subsurface Utility Engineering efforts on this project involved the identification of many different types of gas, sewer and water lines all involved in the treatment of wastewater. The design engineer provided a very specific framework for us to use during data collection and design file preparation. We successfully conformed to their requirements and mapped a very intricate web of subsurface utilities. Thanks to our efforts, they were able to design around many utilities and save the project owner dollars that they could then use on other improvement projects.



Subsurface Utility Engineering
Cardno TBE
TBE Office: ORLANDO, FL

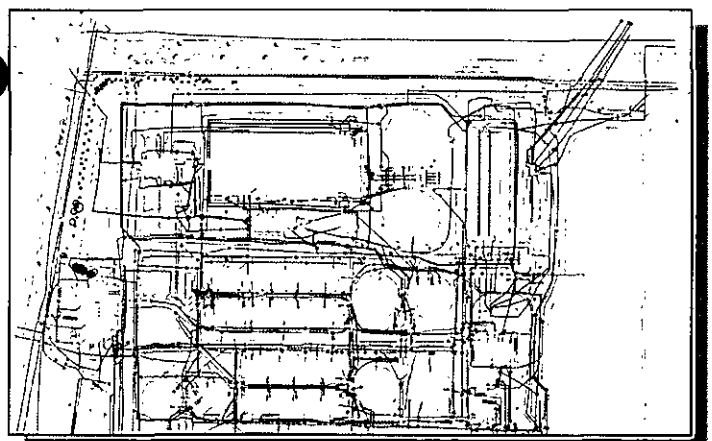
Client: DDDS & HAZEN AND SAWYER
SUE Crew: LAKE CITY & ORLANDO
City/State: TALLAHASSEE/FL
Location: TALLAHASSEE WWTP
Units: English ☑ Metric ☐

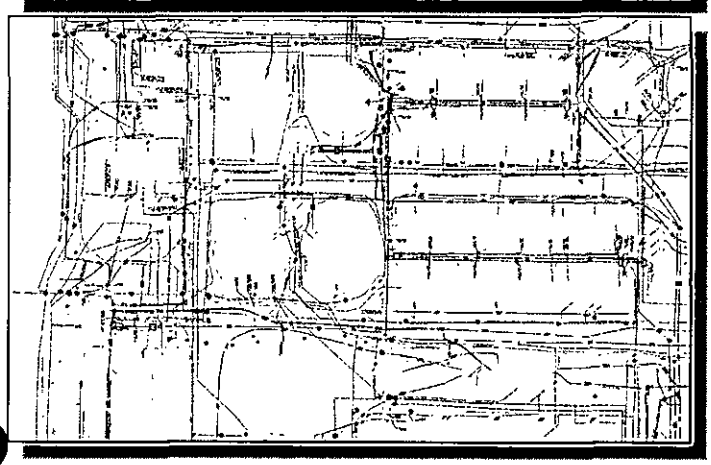
Utility Material:
1- Steel; 2- PVC (Polyvinyl Chloride); 3- DIP (Ductile Iron Pipe); 4- VCP (Vitrified Clay Pipe); 5- PE (Polyethylene Pipe); 6- AC (Transite); 7- CI (Cast Iron); 8- DBC (Direct Buried Cable); 9- Concrete Pipe; 10- Corrugated Metal Pipe; 11- Duct; 12- Fiberglass; 13- Unknown; 14- Concrete Cap; 15- ; 16- ; 20- Sleeve; 21- Hub/Lathe; 22- Nail/Disc*; 23 "X" in Concrete; 24- SIRC 5/8"**; 25- From Manhole Rim; 26- From Concrete
Identified By:
* Note: 22 = Set Nail and Disk Stamped "TBE TEST HOLE"
** Note: 24 = Set Iron Rod & Cap Stamped "TBE TEST HOLE"

Test Hole Date	EFB Name	Test Hole No	Utility Type	Utility Size (O.D.) in / mm	Utility Material	Northing	Easting	Cross Sectional View	Utility Direction	ID'd By	Manual Depth (Top) in / m	Elev At Top of Utility
02/06/09	TRS3	TH003	RS	48"	DIP	506753.68	2024839.66	◯	⟷	24	5.03	65.33
02/06/09	TRO3	TH003A	FIBER	1/2"	DBC	506753.38	2024839.21	◯	⟷	24	4.76	65.74
02/12/09	TD36	TH008	DRAIN	20"	PVC	506135.08	2025028.63	◯	⟷	22	6.50	53.20
02/12/09	TD32	TH009	DRAIN	12"	DIP	506105.53	2025013.38	◯	⟷	22	2.03	57.41
02/11/09	TD33	TH010	DRAIN	18"	DIP	506359.37	2024999.79	◯	⟷	24	9.81	55.81
02/07/09	TD27	TH013	DRAIN	12"	DIP	506269.55	2024833.56	◯	⟷	24	9.96	55.06
02/07/09	TD40	TH011A	SC	8"	PVC	506269.55	2024833.56	◯	⟷	24	4.50	60.52
02/10/09	TRS8	TH013	RS	30"	DIP	506580.43	2024662.38	◯	⟷	26	6.32	66.07
02/12/09	TRS9	TH014	RS	36"	DIP	506397.78	2024502.62	◯	⟷	22	6.37	66.00
02/12/09	TRS7	TH015	RS	36"	DIP	506496.10	2024601.02	◯	⟷	22	5.00	66.84
02/10/09	TRS4	TH016	RAS	36"	DIP	506358.59	2024997.50	◯	⟷	24	6.67	58.17
02/10/09	TUNK3	TH016A	UNK	1"	PVC	506356.67	2024995.76	◯	⟷	24	0.69	64.08
02/10/09	TRA55	TH017	RAS	30"	DIP	506351.32	2024989.55	◯	⟷	24	10.85	53.91
02/05/09	TRA53	TH018	RAS	16"	DIP	506358.08	2025020.74	◯	⟷	24	4.19	59.72
02/05/09	TRA56	TH019	RAS	16"	DIP	506322.79	2024980.70	◯	⟷	24	4.23	59.66
02/05/09	TIR2	TH019A	IRR	3 1/2"	PVC	506323.35	2024980.04	◯	⟷	24	0.89	62.94
02/05/09	TRW14	TH020	RW	8"	PVC	506708.54	2024802.28	◯	⟷	24	3.00	67.63
02/05/09	TWAS6	TH021	WAS	10"	DIP	506708.66	2024804.59	◯	⟷	24	3.01	67.64
02/05/09	TIR3	TH022	IR	18"	DIP	506339.81	2024908.81	◯	⟷	24	3.60	61.84
02/05/09	TRA57	TH023	RAS	16"	DIP	506420.46	2025077.20	◯	⟷	24	3.42	60.17
02/12/09	TWAS7	TH025	WAS	10"	CI	506457.53	2025098.92	◯	⟷	24	1.60	62.72
02/05/09	TRW15	TH026	RW	8"	PVC	506454.85	2025096.93	◯	⟷	24	3.18	61.30

Notes:

Sheet 2 of 12 Prepared By: MRL Date: 03/01/09 Checked By: SA Date: 03/06/09





Key Staff:

Jim Allen, PE
Tony DiMarino, Jr., PSM
R. Mark Pitchford, PSM
Matthew R. LaLuzerne, PSM
Kevin Kurtz

Cardno TBE Fees: $324,875

a.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
	Cardno TBE	Altamonte Springs, FL Lake City, FL	subconsultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 10

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Bannerman Road & Tekesta Leon County, FL	2009	NA

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Leon County Public Works	Pam Nobles, PSM *Cardno TBE client*	850.385.1133

24.BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost):*

For this County project, Cardno TBE supported the Engineer of Record by providing Subsurface Utility Engineering services. These services included designating (ASCE Quality Level B) and locating (ASCE Quality Level A). In total, Cardno TBE provided four test holes to map the precise horizontal and vertical position of underground utilities within the project limits.

Project No. LCP3-037

Key Staff:

Jim Allen, PE
Steven Abbott
R. Mark Pitchford, PSM

Cardno TBE Fees: $2,400

a.	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
	Cardno TBE	Lake City, FL	subconsultant

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

Project Description	Client
2212 East Gate Way	Brantley Group, LLC
275 NW Sumter Street, Madison FL	Paul Davis Restoration of Tallahassee
3109 Shamrock Street South	Isac Claims
3DS Misc. Surveying Services	Diversified Design & Drafting, Inc.
3N Holdings LLC Property, 4593 Thomasville Rd & 4119 Forsythe Way	3N Holdings, LLC
932 West Tharpe Street Boundary Change	Sandco, Inc.
Active Minerals Antioch Church Road	Active Minerals International, LLC
Administration (ADMIN)	
Amory Radio Tower Site Sec 21, T12S, R8E Monroe Co. MS	Red Plains Surveying Company
Anderson Landing River Camp & Hub	Hargraves Engineering, LLC
Apalachee Solid Waste Management Facility	Leon County Solid Waste Management - Multiple Clients
APO Sec 07, T5N, R33W, Escambia Co, Florida	Tina Francis
APO Sec 22, T1N, R29W RaceTrac Gas Station #R129	Racetrac Petroleum, Inc.
Bannerman and Bull Headley Intersection Improvements	PBS&J, Inc.
BASF (MicroFlo), Sparks, Georgia	Crews Engineering (3845) - Multiple Clients
BASF Catalysts Misc. Surveying Services	BASF Catalysts, LLC
BASF GRL 251 Berm	BASF Catalysts, LLC (2)
Bayhead Mobile Home Park	Uniprop, Bayhead MHP - Multiple Clients
Brunswick Cellulose Pine Chip Inventory 2011	Georgia-Pacific Passport (Cellulose)
Bush Road over Wright's Creek Bridge Replacement Design Gro	Registe, Sliger Engineering Inc
Capital Cascades Segments 3 and 4, St. Augustine Branch & C	Diversified Design & Drafting, Inc.
Capital Circle SE R/W Mapping	LPA Group Incorporated
Coloney Bell # 801485	Coloney Bell Engineering
Danny Wuerffell Way, Task No. 20	HDR Engineering, Inc.
Design of SR 83 from Choctawhatchee Relief Bridge	E.C. Driver & Associates, Inc.
Districtwide Misc Traffic Operation Analysis / Design Servic	HDR Engineering, Inc.
Domtar Kingsport Mill Chip Inventory 2011	Domtar Paper Company, LLC (2)
Domtar Marlboro Mill Chip Pile Inventory 2011	Domtar Paper Company, LLC
Dunwoody High School	Doster Construction Company, Inc.

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

Faver-Dykes State Park - Entrance Road	Ayres Associates, Inc.
FDOT RCI Mapping Services	Aerial Cartographics of America
Flowing Well Road over Limestone Branch Bridge Replacement	Registe, Sliger Engineering Inc
Gainer Road over Flat Creek Bridge No. 614129	Pitman, Hartenstein & Associates, Inc.
Georgia Pacific - Rincon, GA	GPSSC Consumer Products
Ghazvini Learning Center (Addition)	Leon County Schools Maintenance
Gordon @ Hightower Valdosta Transportation Master Plan Improvements	The LPA Group, Inc. (6852)
Greenreef Townhomes Units 1-4 and adjacent 50' of said Units	JAD Engineering, LLC
HMA GPS Control Services	Hal Mills and Associates
Holy Comforter Episcopal School	C.W. Roberts Contracting, Inc.
Hormann Door Test Validations	Hormann LLC - Multiple Clients
Hurlburt Field Visitors Control Center Okaloosa County, Florida	Carters Contracting Services, Inc.
I-10 and Bob Sikes Road, Defuniak Springs	Coloney Bell Engineering
Jake Gaither Golf Course	Lawson & Lawson Electrical Co
Jessie Furlow Medical Center	Pyramid Excavation, Inc. - Multiple Clients
Kapstone Charleston SC Chip Pile Inventory 2011	Kapstone Charleston Kraft LLC
Ken Gordon Construction	Coloney Bell Engineering
Killearn Estates Unit 14 Block AK	Brantley Group, LLC
Knollwood S/D Lot 44 Block D	TransAmerican Title
Lafayette Springs ADA Access	Hargraves Engineering, LLC
Lafayette Street Pedestrian Tunnel	FDOT
Lake Ella Road over Pond Creek Bridge	HDR Engineering, Inc.
Lake Talquin BP	Prime Meridian Bank
Lawndale Drainage, Buck Lake Road	Inovia Consulting Group
Leon County Transportation Facility Capital Circle SW	Leon County School Board
Lincoln Community Center	Leon County School Board
Lot H less lots sold in Dekle Land Co. Addition Section 9, T4N, R13W	Richard Morris

NCG 3DS Baker Cardno TBE

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

Magella Connection Track, Jefferson County, Al APO Sec 16, T18S, R3W	Transystems
Meadow Wood Memorial Park 700 Timberlane Road, Tallahassee	Service Corporation International
MeadWestvaco Cottonton, AL Chip Pile Inventory 2011	Meadwestvaco Coated Board
MeadWestvaco, TX Chip Pile Inventory 2011	Meadwestvaco Corporation
Merry Acres Drive over Helms Branch Bridge No. 614140	Pitman, Hartenstein & Associates, Inc.
Mid Bay Bridge Authority, CEI Work	HDR Construction Control Corporation
Mid Bay Bridge, Extension of road right of way from the Toll	HDR Engineering, Inc.
Moore Middle School, Lawrenceville GA	Doster Construction Company, Inc.
Natural Bridge Road over branch of St. Marks Bridge No. 5540	H.W. Lochner, Inc. (3)
Naval Support Activity Surveying Services	S & E Contractors, Inc. - Multiple Clients
Northwest Florida Water Management District	Northwest Florida Water Management District
Oil-Dri Corp	Oil-Dri Corp.
Okeeheepkee Prairie Walking Trail	Registe, Sliger Engineering Inc
Old Bainbridge Square Parcel "B"	Sandco, Inc.
Old Lee Park, 4th Avenue	Leon County School Board
OPUS Broadcasting Tallahassee Tower	Opus Broadcasting, LLC.
Paradise by the Sea S/D Lot 10 Blk A	Lois Faison
Pineview @ Bemiss Valdosta Transportation Master Plan	The LPA Group, Inc. (6852)
Pineview @ Melrose Valdosta Transportation Master Plan Improvement	The LPA Group, Inc. (6852)
Planters Cove Cape San Blas Road, Gulf County	Pairadice Investments, LLC
Rickards High School	Leon County School Board
Riley Elementary School	Leon County School Board
Rosemary Beach, Phase 6, Lot 6 Block 36 Hamilton	Koast Builders Inc.
Sandestin Homeowners Association Deed Mapping	Sandestin Owners Association
Seminole Ridge Retaining Wall, 1375 Pullen Road	Seminole Housing Partners/Jaymor Group
Southwood at Blair Stone Entry	St. Joe Company - Multiple Clients
Southwood TR209/105 Ponds	PBS&J, Inc.
Southwood Unit 14 Lot 18 Block B	Smith, Thompson, Shaw & Manausa PA
Southwood Unit 17 Lot 4 Block A (1)	Rex & Donna Hollaway
Southwood Unit 18 Common Area #4	C.R.C.D.D
Southwood Unit 23 Lot 15 Block D	Smith, Thompson, Shaw & Manausa PA
Southwood Unit 7 Lot 6 Block A 4020 Colleton Court	Smith, Thompson, Shaw & Manausa PA - Multiple Clients
SR 10 (US 90) Mahan Drive	PB Americas, Inc

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SR 63 Lake Jackson Ecopassage	E.C. Driver & Associates, Inc.
St. Augustine Hills Apartments	St. Augustine Hills, Inc.
Temple Inland Orange TX Chip Pile Inventory 2011	Temple-Inland
Temple Inland Rome, Ga Chip Pile Inventory 2011	Temple Inland Rome Liner Board Mill
The FSU Research Foundation	FSU Research Foundation, Inc.
The Retreat S/D Lot 44	J. Becker Custom Homes & Renovations
Volusia County, Florida	Pictometry International Corp
Weyerhaeuser Columbus MS Chip Inventory 2011	Weyerhaeuser NR Company
Weyerhaeuser Port Wentworth Chip Pile Inventory 2011	Weyerhaeuser Port Wentworth
Woodrow Wilson Extension Valdosta Transportation Master Plan	The LPA Group, Inc. (6852)

NCG 3DS Baker Cardno TBE

Meeting Schedule and Budget Requirements

Working with a miscellaneous survey contract means that the consultant will be dealing with a variety of survey assignments that could cover a wide range of objectives over a long time frame. The NCG team understands that having only a large staff with an arsenal of equipment does not necessarily mean that a firm can produce quality work or meet specific time schedules. NCG has taken an innovative approach and many planned steps to ensure that it can provide quality work over a long time frame. Some of these steps are listed below:

Cost Accounting

To maintain cost controls on the number of projects running at any one time, NCG has a state-approved cost accounting system for the tracking of projects. Timesheets and job cost are posted into the system each morning detailing what was done each day, categorized by project phase and project number. All project records, companywide, are current each day in the accounting system. All project managers have access to this information at all times, and the information is reviewed, weekly, by other staff. This information can be provided or forwarded to any client that requests detailed information of time spent on projects. This system can also be programmed to produce reports to monitor any phase of the project, if needed.

Staffing and Scheduling

The NCG team has a large number of qualified, registered land surveyors and support staff to step in and assume the duties and responsibilities of key project personnel (e.g. Project Manager, CADD Specialists, GPS Coordinator, Quality Control Coordinator) in the event of unscheduled absences. Team staff has the ability to function efficiently throughout the life of this contract. The NCG team's ability to meet critical schedule dates is enhanced by the large staff of employees.

The project manager, using the approved man-hours for the project, will provide a timeline chart in SureTrack, Microsoft Project Manager, or one of the team's custom programs to track the process of each phase of the project. This is also tracked on a master schedule for all staff, to ensure there are no overlaps of personnel or crews. The NCG team can easily use a single, specified format for the data management and project tracking, if requested.

NCG's survey supervisor is also the company president and has the latitude to assign any field crews to a four day-ten hour or five day-eight hour work week schedule. Utilizing four day-ten hour work weeks on specific task assignments increases crew efficiency and reduces travel time approximately twenty percent (20%). The appropriate schedule most beneficial to the County will be selected.

Innovative Equipment / Procedures

Most of a project's cost savings, today, relies on a clear understanding of the project's goals and scope of services. The use of new equipment and software systems can also increase efficiency and reduce time. Though some new technology may not reduce cost, it may provide added value to the project without increasing cost. The NCG team has long been in the forefront of equipment, training, and innovative work approaches. The NCG team is confident that it can provide any surveying services on the market at this time to reduce project cost on many projects, with the use of GPS, LAMP mapping, LiDAR mapping, GIS, and 3D laser scanning. The NCG team will evaluate each project with the County to determine if any of these systems would be more cost and/or time effective than conventional surveying approaches.

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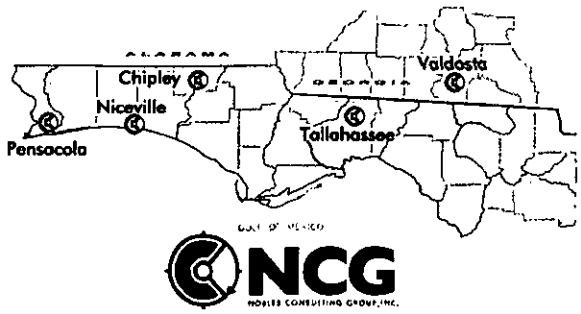
In order to provide surveying services on a wide range of projects, NCG has taken many steps in the past to ensure prompt and efficient service. The County can be assured of a timely response for the services to be provided, based on the team's overall approach and the capabilities of its Survey Department, as outlined below.

Offices

The NCG team has tremendous geographic reach with office locations covering the Southeast. The NCG team has, by design, maintained five offices in the North Florida and South Georgia area to provide local crew support for most projects and extra manpower if needed with short driving times. The offices are established operations staffed with trained personnel, providing both public and private sector services.



Level Workloads

Crew personnel can work on more local projects with a large client base. This provides both experience on a wide range of projects and helps maintain a level workload, thus avoiding large swings in manpower requirements.

Low Staff Turnover

The NCG project surveyors shown have been with the firm for an average of over ten years which provides big cost savings in maintaining continuity and reducing training cost.

Key Staffing

NCG has a qualified staff of key project personnel (e.g. Project Manager, CADD Specialists, GPS Coordinator, Quality Control Coordinator) that still perform "hands on production." This allows other personnel to assume duties and responsibilities in the event of unscheduled absences during the contract time of this project. With this flexibility, experience in surveying, and knowledge of the requested policies/procedures, the NCG staff has the ability to function efficiently throughout the life of the contract. And, with the size of the team can provide any field and office survey support needed to maximize the ability to meet unusual critical schedule dates.

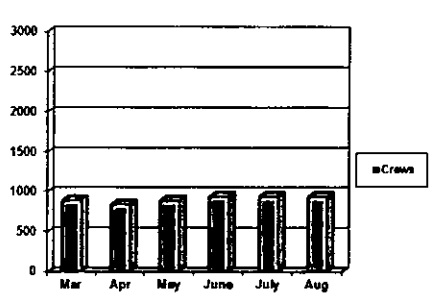
AVAILABILITY AND WORKLOAD

From the information provided in this proposal, the NCG team feels that it can exceed any staff requirements needed for the competition of the wide range of projects under this contract. NCG has a highly qualified professional and technical staff, which will be mobilized immediately upon receipt of the County's Notice to Proceed. The NCG team has the available manpower and equipment to begin working on any task assigned, and will provide our complete attention and commitment to meet the needs of the County. NCG can provide 100% of NCG's Project Manager for this contract, Mr. Kevin Mears, if needed for these projects and is local in Tallahassee, Florida.

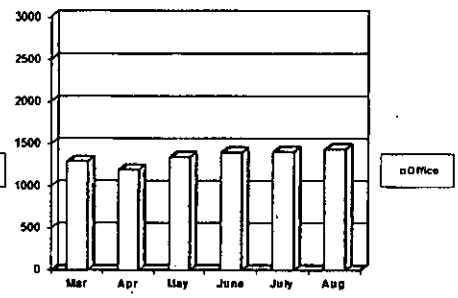
NCG has completed many large projects consisting of 500 to 700 field days in the North Florida area and have met the deadlines for all of these projects. NCG is confident that we can cost-effectively provide the professional surveying services as required for this contract. The slowdown in the North Florida markets has reduced our current workload to the lowest levels NCG has experienced the last 25 years. NCG will be able to easily meet the projected workload for this contract for any size project that the Department may have.

The strength of NCG's Team to efficiently perform the surveying services outlined in this RFP is based on the teamwork and capabilities of our survey staff. NCG is able to call on any office for their expertise on any project, while managing the project from the nearest and most logical location. Our approach and management plan to every project has been proven to be exceptional. We approach and complete our projects in an efficient and timely manner.

NCG Production Staff Current Workload



2,100 Hours Available Per Month



3,000 Hours Available Per Month

NCG feels very fortunate to have been selected as a consultant on a continuing basis for a variety of governmental and private entities. We provide professional surveying services to surrounding counties in the Florida Panhandle. Other clients consist of the Florida Department of Transportation, the Florida Department of Environmental Protection, The St. Joe Company, Florida Department of Revenue, Florida Department of Agriculture and many others.

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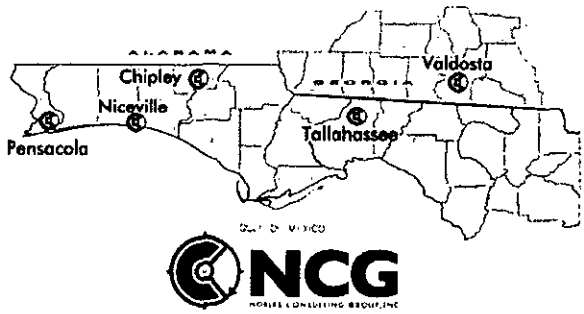
Responsible Office

NCG is a Florida based surveying and engineering firm having its corporate headquarters in Tallahassee, Florida. We also have offices in Pensacola, Niceville and Chipley. Our Tallahassee Office will be the Responsible Office for these projects. All contractual matters will be processed in Tallahassee. The initial point of contact for individual survey assignments will be through Mr. Allen Nobles of the Tallahassee office. Having our main office will assure prompt response for contacts with the County's personnel.

Tallahassee Office

Nobles Consulting Group, Inc. (NCG) is a 30 year old, Tallahassee based firm. The Tallahassee office is a 7,000sf office that is fully equipped to provide efficient surveying and mapping services including desks, chairs, drafting tables, book cases, file cabinets, calculators, word processing capabilities, telephones, fax machines, survey equipment, CADD stations, plotters, and other miscellaneous equipment normally used by a full-service surveying office.



Subconsultants

For this contract, NCG may use one of the following three firms, **Diversified & Drafting Services, Inc. (3DS), Michael Baker Corporation (Baker) and Cardno TBE.** 3DS is a local Tallahassee firm that would provide services from their Tallahassee office. The services from Baker are remote services (aerial and mobile mapping) that would be provided locally by NCG renting their survey systems and if needed Cardno TBE would provide any location services for underground utilities

Approach to the Project

NCG's main focus has been to provide surveying services on both small and large scale survey projects in the Southeast. NCG is currently providing surveying services on projects ranging in magnitude from 700 crew days to one crew day. The NCG team has extensive experience providing large boundary and topographic surveys for GDOT, FDOT, the Florida DEP (State Lands), USFS, USACOE, the St. Joe Company, Trust for Public Lands, and many cities and counties in the Southeast. The team has used a variety of survey data, including (GPS, LiDAR, LAMP, false color IR) to complete these projects. Team members have extensive history serving as expert witnesses in a wide range of cases.

Always thinking ahead, the NCG team continuously looks for revolutionary, ground-breaking technology to better serve its client's project needs. While specializing in producing products from various data sources, the NCG team analyzes each project individually to determine which method would be most effective, whether it be by means of traditional survey, terrestrial LiDAR, aerial photogrammetry, low altitude photogrammetry, or a combination of any of these methods. The team is dedicated to finding the right solution for each individual project and client.

The NCG team brings trained professionals, the offices and the manpower to meet the County's needs while ensuring that all services will be performed under the supervision of the appropriate licensed professional engineers, certified photogrammetrists, and/or registered land surveyors for the services provided. NCG will directly manage all subcontractor professionals legally bound by executed teaming agreements between parties. NCG will flow-down the prime contract provisions for each executed subcontract.

Project Approach

Due to the fact that we are dealing with a variety of surveys assignments, all with a different set of objectives and survey reviews, the initial goal of any project is to establish good coordination with County and the parties involved. NCG's first step would be to meet with County personnel to clearly define the scope of services and the goals of the project. From this we can anticipate the level of work needed, the survey method to use and the output format for the final deliverables.

From our past experience we have found that the most critical part of the project is getting clear understanding of the scope of services and goals of the project from each party. The outcome of a project depends on the level of detail necessary, what kind of final deliverables and the required time frame the work needs to be completed within. If the County's needs are not understood or met by NCG, then a significant portion of work on our part can be a wasted effort. NCG staff will attend all scope of services meetings where survey information is discussed to get a clear understanding of project specifications and address questions the Project Manager or other consultants may have.

The scope of services dictates the project critical path. It is mandatory that NCG meets with the County before the preparation of manhours so that a complete understanding of the project can be achieved. NCG will then meet with our staff and appropriate subconsultants to discuss the most efficient way of doing the job and determine if there is any existing information that can be used or any innovative methods that may work on the project. After a scope of services has been defined, we will prepare an estimate of the manhours necessary to provide the specified services. This estimate is always done by two surveyors on staff and then reviewed by a third surveyor if there is a significant difference in the manhours. The manhour estimate will be detailed as to the various employee classifications utilized and will show the magnitude of work we propose along with a time schedule. The review of the manhours by the County then lets us see if there is any point or detail that we are missing and offers another chance to make sure the scope of services is correct. NCG has found that with a complete understanding of the scope of services, we have eliminated the need for added manhours after this work has started.

After the project is approved, our staff will set our own in-house schedule and detail the work needed to comply with the County's standards, Florida Statutes, overall quality, schedule adherence and budget. This insures that our Project Manager and Project Surveyor have a full understanding of the project and leads to effective project management.

Project Managers

The Project Surveyor and Project Manager both have input before the start of each project at the three main steps that most projects will go through. The three main steps are as follows:

- the work is reviewed with the field crews before they start the survey,
- the work is previewed after the field data is reduced and
- the work is reviewed before the drawings are completed and submitted.

For most projects NCG's representative will be Mr. Allen Nobles, PSM, or Kevin Mears located in NCG's Tallahassee office. For field surveys Mr. Allen Nobles, PSM will work with Mr. Paul Williamson, PSM, Survey Crew Manager in the Tallahassee office.

Any unusual conditions that may develop during the progress of a project will immediately be brought to the County's attention, along with a recommended solution. With many years of prior surveying experience, our staff has the ability to function effectively without constantly calling on the County's Project Manager. Also, we fully understand those issues requiring guidance from the County's personnel, and will request their assistance and recommendations to resolve unique situations, which could seriously impact the project.

To ensure maximum efficiency with our technology, and policy of matching crew size and work hours to specific tasks, NCG has a communication network between Project Managers that is simple and has proven to work. To make sure of effective use of this staff, the President of the firm is still in responsible charge of crew scheduling, coordination, and decision-making and works daily with the Survey Project Managers. NCG also has second Survey Project Manager, that are vested with authority to expedite all decision-making, including the selection of crew size, variable work weeks, (five-eights or four-tens) and scheduling of weekend work, if necessary to meet critical target dates. All vehicles are cellular telephone equipped providing constant communication ability with the Project Managers, NCG's party chiefs and survey support personnel.

Respect of the Public

The team's group of professionals knows that they are representing Leon County when performing the tasks required of this contract. The team has established standards for interacting with the public and understands all employees represent the County. Respect for property owners' rights is tantamount, and team members will exhaust all means available to contact property owners in advance of field work.

Survey Standards

All work shall be accomplished in accordance with the County's standards and mapping requirements and if required for FDOT submittals, the work can comply to the FDOT's Location Survey Manual Topic No. 550-030-100, Highway Field Survey Specification Topic No. 550-030-001, Automated Survey Data Gathering Topic No. 550-030-030, Outline Specification for Aerial Surveys/Photogrammetry for Transportation Projects Topic No. 550-020-002, Right of Way Mapping Topic No. 550-030-015 and Roadway and Traffic Design Standards (Index Series 600). This work must also comply with the minimum standard for Professional Surveyors and Mappers, Florida Statutes Chapter 177, F.S., Department of Environmental Protection rules governing Mean High Water and Jurisdictional Line surveys and any special instructions from the County.