

WORK ORDER No. 1 FOR PROFESSIONAL SERVICES

TO: David Plummer & Associates.
1750 Ponce De Leon Boulevard
Coral Gables, Florida 33134
(305) 447-0900

DATE: May 13, 2015

The City of Doral authorizes the firm of David Plummer & Associates to proceed with the provision of engineering services and the development of construction plans for a traffic signal at the intersection of NW 58 Street and NW 99 Avenue as of the date of this Work Order. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Agreement between David Plummer & Associates and the City of Doral dated February 2, 2015, and the attached Proposal submitted by your firm for the above referenced project.

SCOPE OF SERVICES AND SCHEDULE:

The scope of the project will be as described in the attached proposal from David Plummer & Associates. The schedule requires the work to be performed within 90 calendar days. All limitations of time set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a time and materials basis with a not to exceed amount of \$19,874.00.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal, and revoke the award.

Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated February 2, 2015 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply.

Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

CONSULTANT: David Plummer & Associates

BY: [Signature]
NAME: Timothy J. Plummer, PE
TITLE: President

WITNESSES:

SEAL:

1. [Signature]
2. [Signature]

OWNER: City of Doral

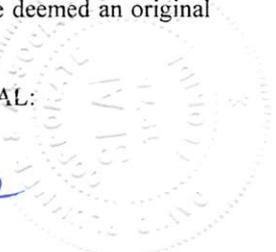
BY: [Signature]
NAME: Edward Rojas
TITLE: City Manager

AUTHENTICATION:

BY: [Signature]
NAME: Connie Diaz
TITLE: City Clerk

APPROVED AS TO FORM:

BY: [Signature]
NAME: WEISS, SEROTA, HELFMAN, COLE,
& BIERMAN, PL
TITLE: City Attorney



23814

DAVID PLUMMER & ASSOCIATES

TRANSPORTATION • CIVIL • STRUCTURAL • ENVIRONMENTAL

1750 PONCE DE LEON BOULEVARD, CORAL GABLES, FLORIDA 33134
305 447-0900 • FAX: 305 444-4986 • EMAIL: DPA@DPLUMMER.COM

April 13, 2015
Revised April 15, 2015

Jorge A. Gomez, P.E.
Chief of Engineering
City of Doral
8401 NW 53rd Terrace
Doral, FL 33166
(305) 593-6740, Ext. 6017
Jorge.Gomez@CityofDoral.com

Re: NW 58 Street and NW 99 Avenue – Traffic Signal Design Services - #15133

Dear Jorge:

David Plummer & Associates (DPA) is pleased to provide the City of Doral with design phase services for the construction of a new traffic signal on NW 58 Street and NW 99 Avenue in Doral, FL. This letter and our PSA dated February 2, 2015, forms the agreement between our organizations for these services.

Our involvement in the project is described in the attached Scope of Services (Attachment A). The fees for the corresponding project tasks are included as Attachment B. The intent of the work is to provide a construction plans package for that work.

If you concur with the contents of this agreement, please sign both copies and return a single copy to our office. We are prepared to start this work, upon receipt of the above stated items, subject to a mutually agreed upon schedule.

Sincerely,

Accepted by:



Victor Lee, PE, PLS, Vice President
DAVID PLUMMER & ASSOCIATES

Jorge A. Gomez, P.E., Chief of Engineering
CITY OF DORAL

cc: Accounting, Proposal Book

Attachments: Attachment A & B

gomez-let-041515.docx

Attachment A - SCOPE OF SERVICES

CITY OF DORAL NW 58 STREET AND NW 99 AVENUE TRAFFIC SIGNAL DESIGN SERVICES

April 13, 2015
Revised April 15, 2015

Purpose

The purpose of this work is to provide design documents for the construction of a new traffic signal on NW 58 Street and NW 99 Avenue.

SCOPE OF WORK

TASK 1 – Roadway Plans

Services under this task include the preparation of Roadway Plans for the construction of curb ramps on NW 58 Street and NW 99 Avenue, as part of the new traffic signal at this intersection. Modifications to the median along NW 58 Street may also be required. The Roadway Plans will include replacement of damaged sidewalk on the northeast corner of the intersection.

The scope of services will also include milling and resurfacing of the above intersection. This task includes providing an estimate of probable construction cost for the Roadway Plans.

The Roadway Plans will consist of the following:

- Key Sheet
- Summary of Quantities
- General Notes and Details
- Roadway Plan Sheet
- Traffic Control Plans General Notes Sheet

The Roadway Plans will be submitted to the City of Doral and to Miami-Dade County for review.

Product: Roadway Plans

TASK 2 – Signing & Pavement Marking Plans

Under this task, a signing and pavement marking plan will be prepared for the proposed signalized intersection. This task includes providing an estimate of probable construction cost for the Signing and Pavement Marking Plans.

The Signing and Pavement Marking Plans will consist of the following:

- Summary of Quantities – Signing and Pavement Markings
- Signing and Pavement Marking General Notes and Details
- Signing and Pavement Marking Plan Sheet

The Signing and Pavement Marking Plans will be submitted to the City of Doral and Miami-Dade County for review.

Product: Signing and Pavement Marking Plans

TASK 3 – Signalization Plans

Signalization Plans will be prepared for the intersection of NW 58 Street and NW 99 Avenue. The Signalization Plans will show the layout of the proposed mast arms, traffic signal heads, countdown signals, traffic controller, vehicle loop assemblies, pull boxes, conduits, service points, as well as the signal head details, internally illuminated street name signs, and signal operating plan. This task includes providing an estimate of probable construction cost for the Signalization Plans.

The Signalization Plans will consist of the following:

- Key Sheet
- Tabulation of Signal Equipment
- Signalization General Notes and Details
- Signalization Plan Sheet
- Guide Sign Work Sheet
- Mast Arm Detail Sheet
- Mast Arm Tabulation
- Electrical Power / Service Detail

The Signalization Plans will be submitted to the City of Doral and Miami-Dade County for review.

Product: Signalization Plans

TASK 4 – Utility Coordination

Coordination with FPL and AT&T will be required to obtain service points for the new traffic signal. Additional coordination with FPL will be required for FPL to adjust their overhead power lines to provide proper vertical clearance to the new mast arm.

Coordination with all overhead utility lines (telephone, cable, communications) that are attached to FPL's power poles may also be required.

The construction of the curb ramp on the northeast corner of the intersection may also require the relocation of a fire hydrant by Miami-Dade Water and Sewer Department (MDWSA). Services under this task will include the necessary coordination with MDWSA.

The location of all existing utilities obtained under this task will be shown in the plans so that any potential conflicts with the proposed improvements can be resolved.

Product: Utility Coordination

TASK 5 – Design / Permit Processing

The construction plans package will be reviewed by the City of Doral and Miami-Dade County. Comments will be addressed, with written responses provided to comments received from review agencies, and adjustments, as necessary, will be made to the construction plans package. The final construction plans package will be resubmitted to the permitting agencies for their review.

The permit processing for the construction document package includes up to 20 hours under this task. The actual permit will be drawn by the contractor.

Product: Design / Permit Processing

TASK 6 – Project Representation / Meetings

Our firm will be represented in all of the informal team or public agency sessions where the design issues for this project are discussed. The team discussions will include, but not be limited to, planning, approval strategies, schedules, methodologies, field reviews, and coordination between disciplines. The agency representation will involve these same items and informal reviews, attending comment resolution meetings with reviewing agencies, drafting approval documents, negotiations and the like. Up to 3 meetings are included under this task. This task will also include providing responses to questions and technical assistance during the bid phase of the project.

Product: Attend Meetings and Provide Technical Assistance

TASK 7 – Topographic Survey & GPR Field Survey

Under this task, a topographic survey will be prepared by Longitude Surveyors LLC for the proposed traffic signal location. Cross section elevations at 50-foot intervals will be provided, including high/low points, edges of pavement, curb and gutter (flow line and top of curb) and sidewalk (front and back).

All above-ground features within the limits of the survey will be shown. For drainage structures within the limits of the survey, the following will be provided: grate elevations, pipe sizes, invert elevations and direction of flow, and structure bottom elevations.

An electromagnetic and Ground Penetrating Radar (GPR) field survey will also be provided under this task.

Product: Topographic Survey & GPR Field Survey

Agreement conditions and information that will be needed and supplied by the City to DPA are as follows:

1. The plans will reference the latest edition of the FDOT Standard Specifications for Road and Bridge Construction.
2. All agency reviews and/or permit fees required for this project will be the responsibility of the City.
3. Lengthening of the existing eastbound left turn lane on NW 58 Street is not part of the scope of services. If required, it can be provided as additional services.
4. Landscape architecture services are not anticipated for this project.
5. A scope of services and fees for construction phase services may be requested by the City prior to the project going out to bid.

NW 58 Street and NW 99 Avenue-scp-041515.doc

Attachment B - SCHEDULE OF FEES

**CITY OF DORAL
NW 58 STREET AND NW 99 AVENUE
TRAFFIC SIGNAL DESIGN SERVICES**

April 13, 2015
Revised April 15, 2015

<u>TASK</u>	<u>STIPULATED SUM</u>
Task 1 – Roadway Plans	\$1,720
Task 2 – Signing & Pavement Marking Plans	\$1,275
Task 3 – Signalization Plans	\$8,630
Task 4 – Utility Coordination	\$1,275
Task 5 – Design / Permit Processing	\$2,165
Task 6 – Project Representation / Meetings	\$1,240
DPA Subtotal	\$16,305
Reimbursable Expenses (2.57%)	\$419
DPA Total	\$16,724
Task 7 – Topographic Survey & GPR Field Survey (Longitude Surveyors)	\$3,150
Total	\$19,874

NW 58 Street and NW 99 Avenue-fee-041515doc

LONGITUDE SURVEYORS, LLC

Certified Disadvantaged Business Enterprise (DBE) / Community Business Enterprise (CBE)

Tuesday, April 14, 2015

VIA EMAIL: Victor.Lee@plummer.com
NW 99 AVENUE.DOCX

Victor Lee, PE, PLS
Vice President -Civil Engineering
DAVID PLUMMER & ASSOCIATES
1750 Ponce de Leon Boulevard
Coral Gables, Florida 33134

In reference to: Surveying services for the intersection of NW 99 Avenue and NW 58 Street City of Doral, FL

Dear Mr. Lee,

LONGITUDE SURVEYORS, LLC (LS) is grateful to submit the following proposal for your consideration.

A. Scope of Services:

LONGITUDE will perform a Topographic Survey that will include the following information;

- Paved areas, edge of pavements, sidewalks, flow lines, back of curbs, medians, walls, trees, palms, hedges, walkways, entrances, signs, catch basins, manholes, inlets, valves, valve boxes, guardrails, light poles, meters, electric boxes, security house, power poles, overhead lines, fire hydrants, utility pedestals, etc. all within the survey corridor.
- Cross-section elevations will be taken at 50-foot intervals, including high/low points, crown of road, edges of pavement, sidewalk (front and back), and right-of-way/property line elevations. Where curb and gutter is present, edge of pavement, flow line and top of curb elevations, and the high point(s) and low point(s) along the curb and gutter (flow line) to determine the length and direction of flow of storm water runoff.
- Inverts will be provided for all storm and sanitary structures within the limits of the survey with the following to be provided; grate elevations, pipe sizes, invert elevations and direction of flow; and structure bottom elevations.
- The topographic survey will include the location and legend of all signs within the limits off the survey.
- All existing elevations shall be based on N.G.V.D. 1929 datum.
- The survey will be referenced to the Florida State Plane Coordinate System, based on the North American Datum of 1983/90.

B. Survey Limits:

The intersection of NW 99 Avenue and NW 58 Street 200 feet in each direction from the centerlines from R/W to R/W.

C. Deliverables:

Longitude will provide signed and sealed hardcopies and two (2) electronic copies (One in AutoCAD and One in PDF format) of the Topographic Survey.

D. Time of Completion:

Longitude has estimated six business days to complete this task.

E. Fee:

The total professional fee to complete this task shall be a lump sum of \$1,800.00.

I understand and agree by signing below "I APPROVE AND ACCEPT" this proposal as a legal binding contract.

By: _____
(Authorized Signature)

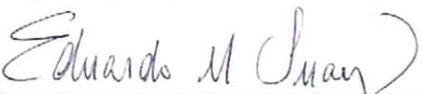
Date: _____

(Typed or printed name)

Title: _____

I thank you for the opportunity to present this proposal. We look forward to utilizing our best professional efforts on your behalf on this very important project.

Respectfully Yours,



Eduardo M. Suarez, PSM/President

Exhibit "B"



Google earth

feet
meters



LONGITUDE SURVEYORS, LLC

Certified Disadvantaged Business Enterprise (DBE) / Community Business Enterprise (CBE)

Tuesday, April 14, 2015

VIA EMAIL: Victor.Lee@plummer.com

NW 99 AVENUE - SUE.DOCX

Victor Lee, PE, PLS

Vice President -Civil Engineering

DAVID PLUMMER & ASSOCIATES

1750 Ponce de Leon Boulevard

Coral Gables, Florida 33134

In reference to: Surveying services for the intersection of NW 99 Avenue and NW 58 Street City of Doral, FL

Dear Mr. Lee,

LONGITUDE SURVEYORS, LLC (LS) appreciates the opportunity to submit this proposal for a Utility Survey for the above referenced site. A subsurface Ground Penetrating Radar (GPR) unit will be used in addition to Electromagnetic Induction (EMI). Based on the information provided, LS will attempt to provide horizontal locations of public and privately owned utilities prior to possible excavation.

Scope of Services:

LONGITUDE will designate utilities at locations as shown on the attached Exhibit "A".

Electromagnetic induction is a method in which a transmitter signal is applied by directly coupling to a target. As long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Additionally, passive VLF signals can be detected on other metallic utilities that are typically long in length and are well grounded electrically. Some utility systems contain portions of non-metallic material and therefore may be un-locatable using EMI techniques.

A GPR unit can assist in identifying non-metallic utilities and other structures that are unidentifiable using traditional electromagnetic techniques. The GPR method transmits electromagnetic waves, which are pulsed at discrete distance/time intervals. The transmitted pulse radiates through the earth whereby a portion of energy is reflected from interfaces of contrasting electrical properties (e.g. pavement and soil interface, soil stratigraphic changes and buried metallic objects) while the remaining energy continues until reaching additional reflectors where the process is repeated. Reflected energy is received by the antennae and recorded for later processing and interpretation. Factors such as soil moisture, clay content and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet conductive soils severely attenuate GPR signals and thus affect the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. In order to accurately conduct a radar survey, orthogonal scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern can impede the data collected and reduce the accuracy of the desired results.

Electromagnetic & GPR Field Survey:

- Longitude will conduct appropriate search of records provided by the client
- LS will perform horizontal locations of existing conductive utilities using electromagnetic techniques
- Longitude will mark selected targets on the ground surface as necessary

Conditions – Locating of Underground Utilities for Pre-Excavation:

- Utility locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation or for design of new construction
- Areas to be surveyed with GPR must be level and free of obstructions
- Results are dependent upon field conditions at the time of locating services
- Longitude's inability to complete the project due to conditions outside LS's control does not void this contract
- APWA standards are used for marking
- LS is not responsible for, moved, altered, obliterated or maintaining marks. If marks are destroyed, LS may impose an additional fee to relocate / remark facilities
- If underground facilities are damaged, whether marked by LS or not, it is the client's obligation to notify a representative of LS within 48 hours of the damage

- Prior to excavation, customer is responsible for securing locations of public utilities through Sunshine StaTe One call of Florida (800-432-4770).

Survey limits:

Three (3) locations to be provided by the client located within the intersection of NW 99 Avenue and NW 58 Street.

Deliverables:

Longitude will deliver signed and sealed originals of the resulting Map of Survey and electronic copies of the resulting cad file, along with a PDF of the survey.

Fee:

The total professional fee to complete this task shall be a lump sum of **\$1,350.00**.

Time of Completion:

Longitude has estimated five business days to complete this task.

I understand and agree by signing below "I APPROVE AND ACCEPT" this proposal as a legal binding contract.

By: _____
(Authorized Signature)

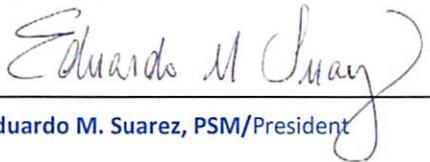
Date: _____

(Typed or printed name)

Title: _____

I thank you again for the opportunity to present this proposal. We look forward to utilizing our best professional efforts on your behalf on this very important project.

Respectfully Yours,



Eduardo M. Suarez, PSM/President

Exhibit "B"



Google earth

feet
meters



**CITY OF DORAL
NW 58 STREET AND NW 99 AVENUE
TRAFFIC SIGNAL DESIGN SERVICES**

TASK	PRINCIPAL	PROJ MGR	SR ENGR	PROJ ENGR	CADD TECH	HOURS	SUBTOTAL
1. Roadway Plans	1	2	4	4	5	16	\$1,720
2. Signing & Pavement Marking Plans	1	1	3	3	4	12	\$1,275
3. Signalization Plans	3	10	12	30	30	85	\$8,630
4. Utility Coordination	1	1	3	3	4	12	\$1,275
5. Design / Permit Processing	1	3	5	5	6	20	\$2,165
6. Project Representation / Meetings	0	8	0	0	0	8	\$1,240
Total	7	25	27	45	49	153	\$16,305
Rate by Category	\$180	\$155	\$120	\$100	\$70		
Fee by Category	\$1,260	\$3,875	\$3,240	\$4,500	\$3,430		
						SUBTOTAL	\$16,305
Reimbursable Expenses (2.57%)							\$419
						DAVID PLUMMER & ASSOCIATES - SUBTOTAL	\$16,724
7. Topographic Survey & GPR Field Survey						LONGITUDE SURVEYORS - SUBTOTAL	\$3,150
						TOTAL	\$19,874

RESOLUTION No. 15-95

A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING A WORK ORDER BETWEEN THE CITY OF DORAL AND DAVID PLUMMER & ASSOCIATES, A PREQUALIFIED VENDOR, FOR THE PROVISION OF DESIGN SERVICES AND THE DEVELOPMENT OF CONSTRUCTION PLANS FOR A TRAFFIC SIGNAL AT THE NW 58 STREET AND NW 99 AVENUE INTERSECTION IN AN AMOUNT NOT TO EXCEED \$19,874.00; AUTHORIZING THE CITY MANAGER TO EXECUTE THE WORK ORDER AND EXPEND BUDGETED FUNDS ON BEHALF OF THE CITY IN FURTHERANCE THEREOF; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the City of Doral (the "City") wishes to secure a firm for the provision of design services and the development of construction plans for a traffic signal at the intersection of NW 58 Street and NW 99 Avenue; and

WHEREAS, David Plummer & Associates ("Plummer") is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act requirements and approved by the City Council in December 2014; and

WHEREAS, staff has recommended that the City Council approve a work order with Plummer for the provision of design services and the development of construction plans for a traffic signal at the intersection of NW 58 Street and NW 99 Avenue; in an amount not to exceed \$19,874.00.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AS FOLLOWS:

Section 1. Recitals. The above recitals are confirmed, adopted, and incorporated and made a part hereof by this reference.

Section 2. Approval. The Work Order between the City and Plummer for the provision of design services and the development of construction plans for a traffic signal at the intersection of NW 58 Street and NW 99 Avenue, in an amount not to exceed \$19,874.00, a copy which is attached hereto as Exhibit "A" and incorporated herein and made part hereof by this reference, is hereby approved. The City Manager is authorized to execute the Work Order and expend budgeted funds on behalf of the City in furtherance hereof.

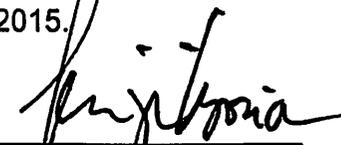
Section 3. Implementation. The City Manager and City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and provisions of this Resolution.

Section 4. Effective Date. This Resolution shall take effect immediately upon adoption.

The foregoing Resolution was offered by Councilmember Rodriguez who moved its adoption. The motion was seconded by Vice Mayor Ruiz and upon being put to a vote, the vote was as follows:

Mayor Luigi Boria	Yes
Vice Mayor Sandra Ruiz	Yes
Councilman Pete Cabrera	Yes
Councilwoman Christi Fraga	Yes
Councilwoman Ana Maria Rodriguez	Yes

PASSED AND ADOPTED this 13 day of May, 2015.



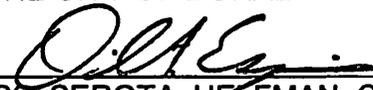
LUIGI BORIA, MAYOR

ATTEST:



CONNIE DIAZ, CITY CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY FOR THE SOLE USE
OF THE CITY OF DORAL



WEISS, SEROTA, HELFMAN, COLE, & BIERMAN, PL
CITY ATTORNEY