

WORK ORDER No. 5 FOR PROFESSIONAL SERVICES

TO: Kimley-Horn and Associates, Inc.
1221 Brickell Avenue, Suite 400
Miami, Florida 33131
(305) 673-2025

DATE: October 31, 2017

The City of Doral authorizes the firm of Kimley-Horn and Associates, Inc. to proceed with the provision of engineering services for the analysis and warrant study for improvements at the intersection of NW 82 Street and NW 114 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 Kimley-Horn and Associates, Inc. and the City of Doral dated February 23, 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 dated October 30, 2017 from Kimley-Horn and Associates, Inc. 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 \$14,942.00.

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 23, 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: Kimley-Horn and Associates, Inc.

BY: [Signature]
NAME: BURT BALDO
TITLE: Sr. V.P.

OWNER: City of Doral
BY: [Signature]
NAME: Edward Rojas
TITLE: City Manager

WITNESSES: SEAL

1. [Signature]
2. [Signature]

AUTHENTICATION:

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



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

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



October 30, 2017

Mr. Eugene Collings-Bonfill, P.E.
Chief of Engineering
City of Doral
8401 NW 53rd Terrace – Suite 200
Doral, FL 33166

***RE: Proposal for Professional Engineering Consulting Services for
NW 114th Avenue and NW 82nd Street Intersection Traffic Analysis
City of Doral, Miami-Dade County, Florida***

Dear Mr. Collings-Bonfill:

Kimley-Horn and Associates, Inc. (“Kimley-Horn” or “Consultant”) is pleased to submit this letter agreement (“Agreement”) to the City of Doral (“Client”) for providing professional engineering consulting services for the above-referenced project. All work under this scope will be in accordance with the terms and conditions of Professional Services Agreement (General Engineering/Architecture Services), between the City of Doral and Kimley-Horn, dated February 23, 2015. Our project understanding, scope of services, schedule, and fees follow:

PROJECT UNDERSTANDING

It is our understanding that the City of Doral is proposing to make improvements at the intersection of NW 82nd Street and NW 114th Avenue/NW 112th Court. Currently, the subject intersection is an all-way stop-controlled intersection. The proposed improvement options include either the installation of a traffic signal or a roundabout.

SCOPE OF SERVICES

Task 1 – Data Collection

A 72-hour volume count will be conducted on a Thursday, Friday, and Saturday on NW 114th Avenue, south of NW 82nd Street. Based on the results of the 72-hour count, a 12-hour turning movement count will be conducted at the intersection of NW 82nd Street and NW 114th Avenue/NW 112th Court. These counts will be factored by the Florida Department of Transportation’s seasonal adjustment factors to represent peak season traffic conditions. In addition to the traffic volume data, crash data from the most recent five (5) years in the vicinity of the study intersection will be obtained from the University of Florida’s Signal Four Analytics.

Task 2 – Background Growth

A background growth rate will be calculated based on historic growth trends from area traffic counts provided by the City of Doral. Trip assignment from any committed projects in the vicinity of the subject intersection will also be included in the background growth. It is assumed that the City of Doral will provide traffic impact studies and/or trip assignment for any committed projects to be considered.

Task 3 – Capacity Analysis

Intersection operating conditions will be examined to determine the level of service at the intersection of NW 82nd Street and NW 114th Avenue/NW 112th Court under all-way stop-controlled, signalized, and roundabout conditions. The all-way stop-controlled conditions and signalized conditions will be analyzed using *Trafficware's SYNCHRO 9.0 Software* which applies methodologies outlined in the *Highway Capacity Manual (HCM), 2000 and 2010 Edition*. The roundabout conditions will be analyzed using *SIDRA Solutions' SIDRA Intersection 7.0 Software* which applies *HCM 2010* methodologies. A maximum of two (2) scenarios will be examined: existing and future design year.

Task 4 – Signal Warrant Analysis

Kimley-Horn will perform a traffic signal warrant analysis for the intersection of NW 82nd Street and NW 114th Avenue/NW 112th Court. A maximum of two (2) scenarios will be examined: existing and future design year. The data collected in Task 1 will be compared to Warrant 1, Warrant 2, and Warrant 7 contained in the most recent versions of the Federal Highway Administration's (FHWA), *Manual on Uniform Traffic Control Devices (MUTCD)*.

Task 5 – Documentation of Findings

The capacity analysis and traffic signal warrant analysis will be documented in a technical report that will include graphics and tabulations, plus text to describe the study procedure, key assumptions, traffic assignment methods, findings and recommendations. If necessary, the analysis will be submitted to the Miami-Dade County Department of Transportation and Public Works (MDCDTPW).

Task 6 – Response to Agency Comments

Kimley-Horn will prepare one (1) set of responses each to City or MDCDTPW comments that directly relate to the analyses performed. The responses may include revising analyses and revising the report.

Task 7 – Meetings

Kimley-Horn will attend one (1) City of Doral Council meeting to present the results of the traffic study and, based only in the traffic analysis, make a recommendation of whether a roundabout or a traffic signal would be the appropriate treatment for the intersection. Development of schematic roundabout is not part of this scope.

Information Provided by Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client. The Client shall provide all information requested by Kimley-Horn during the project.

TASK 8 – The Client’s Additional Services

Upon your authorization, we will provide any additional services that may be required beyond those described in **Tasks 1 through 7**. These services may include but are not limited to such items as the following:

- Develop of Exhibits with schematic roundabout layout
- Attending additional meetings and/or hearings
- Collecting additional traffic counts
- Preparing analyses for additional intersections
- Additional responses to agency comments
- Preparing additional analyses due to agency comments
- Permitting and regulatory assistance
- Civil engineering services

Schedule

We will provide our services in an expeditious and orderly manner to meet the schedule mutually developed by the Client and Consultant for the various elements of the project.

Fee and Billing

Kimley-Horn will perform the services outlined in Tasks 1 through 7 on a time material basis with estimated labor fees shown below. Labor fee will be billed hourly on monthly basis, based on the standard hourly rate agreed between Kimley-Horn and the Client. All permitting, application, and similar project fees will be paid directly by the Client. Direct expenses, if required, will be billed at 1.15 of the cost. Expenses are in addition to the labor amount. Billing will be due and payable within twenty-five (25) days of receipt of invoice.

Estimated Hourly Fees

<u>Tasks</u>	<u>Description</u>	<u>Labor Fee</u>
1 through 7	\$14,942.00
Total Labor.....		\$14,942.00

Hourly Fees

8 Additional Services Hourly as Required

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the terms and conditions of the Professional Services Agreement (General Engineering/Architecture Services), between the City of Doral and Kimley-Horn, dated February 23, 2015, which is hereby incorporated by reference. If you concur with all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute this Agreement in the spaces provided below, and

return to us. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

With Kimley-Horn, you should expect more and will experience better. We appreciate the opportunity to provide these services to you. Please don't hesitate to contact Luis Cubas or me at (305) 673-2025 if you have any questions.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.

Burt L Baldo
2017.10.31 11:41:10 -04'00'

By: Burt Baldo, PE
Senior Vice President

Agreed to this _____ day of _____, 20__.

CITY OF DORAL (A Municipality)

By: _____

(Print or Type Name)

Title: _____
(As Authorized by Law)

(Email Address)
_____, Witness

(Print or Type Name)

Official Seal:

**FEE QUOTATION PROPOSAL FOR
NW 82ND STREET AT NW 114TH AVENUE/NW 112TH COURT**

Consultant's Name: Kimley-Horn and Associates, Inc.
Project Number:
Project Length: N/A

Prepared by: Ali Hanes, PE
Date: 10/30/2017

STAFF HOURS

	Activity	Principal Engineer	Project Manager	Sr. Engineer	Engineer	Clerical	Staff Hours by Activity	Salary Cost for Activity
	Distribution	3%	14%	15%	55%	12%	100%	
1	Data Collection	0	1	0	1	2	4	\$469.78
2	Background Growth	0	1	0	2	0	3	\$472.48
3	Capacity Analysis	0	2	3	18	0	23	\$3,432.02
4	Signal Warrant Analysis	0	2	2	12	0	16	\$2,413.00
5	Documentation of Findings	2	2	4	10	6	24	\$3,256.94
6	Response to Agency Comments	1	2	5	5	3	16	\$2,308.01
7	Presentation to Council	0	3	0	3	0	6	\$989.94
	TOTAL HOURS	3	13	14	51	11	92	\$13,342.17
	Rates	\$190.75	\$187.48	\$164.02	\$142.50	\$69.90		
	Totals S-H and Cost	\$572.25	\$2,437.24	\$2,296.28	\$7,267.50	\$768.90	\$13,342.17	

TOTAL LUMP SUM FEE BREAKDOWN BY ACTIVITY	Amount
Data Collection	\$469.78
Background Growth	\$472.48
Capacity Analysis	\$3,432.02
Signal Warrant Analysis	\$2,413.00
Documentation of Findings	\$3,256.94
Response to Agency Comments	\$2,308.01
Presentation to Council	\$989.94
Maximum Lump Sum Fee	\$13,342.17

KHA	
Traffic Operations/Signal Warrant	\$13,342.17
Sub-Consultants	
Data Collection Sub-Consultant Fee	\$1,600.00
	<u>\$14,942.17</u>

TOTAL CONTRACT COST COMPUTATIONS

Total Activity Salary Costs	\$13,342.17
(a) Overhead Additives	
(a1) Combined O-H percent	
(a2) Combined O-H Cost	\$0.00
Subtotal (Salary + Overhead)	\$13,342.17
(b) Operating Margin Percent	\$0
(b1) Operating Margin Cost - Fixed Fee	\$0
Subtotal (Salary Related Cost)	\$13,342.00
Expenses & Optional Services	
(a) Printing & Reproduction	\$ -
(b) Public Involvement (5%)	\$ -
TOTAL KHA	<u>\$13,342.00</u>

Traffic Operations/Signal Warrant	\$13,342.00
Data Collection Sub-Consultant	\$1,600.00
TOTAL FEE	<u>\$14,942.00</u>