MARLIN

April 29, 2025

Darlin Perez
Chief of Engineering
City of Doral Public Works Department
8401 NW 53rd Terrace
Doral, FL 33166

Re: Professional Consulting Services for Sidewalk along NW 82 Avenue from NW 36 Street to NW 41 Street

Dear Ms. Perez:

Marlin Engineering, Inc. proposes to provide engineering design, preparation of construction documents, and contract documents**,** pursuant to the Continuing Professional Services Agreement provided by the City of Doral ("City") for Professional General Engineering and Architectural Services, dated June 3rd, 2024.

I. General

This project will consist of the new construction of sidewalk along the east side of NW 82nd Ave from NW 36th Street to NW 41st Street, in Miami Dade County. The project length is approximately 0.13 miles. The sidewalk construction will incorporate modifications required by the existing conditions within the corridor, which was previously developed by private developers. The project scope includes a 4-foot widening on the west side along the southbound lanes, just north of the intersection with NW 36th Street, as well as milling and resurfacing of the entire corridor, drainage improvements, and updates to signage and pavement markings. Additionally, a new crosswalk will also be installed on the east side of the intersection with NW 41st Street to enhance connectivity between the new sidewalk and the existing sidewalk on the north side of NW 82nd Avenue. This improvement will include signal modifications and the installation of new pedestrian poles.
A concept plan is attached to provide additional clarification regarding the 4-foot widening on the west side.

Please refer to the attached report and the map below for details.

Map Location

Existing and Proposed Typical Sections

- **Existing:** The roadway consists of one 12–13 ft northbound and southbound lane, plus a 12–14 ft two-way left turn (TWLT) lane, with a total pavement width of 36–40 ft. There is curb and gutter on both sides, but no sidewalks. The right-of-way is 50 ft, with the roadway centered within it.

- **Proposed: Proposed:** Travel lanes will generally be maintained at a minimum width of 12 feet, except just north of 36th Street, where the existing 10-foot travel lanes will be shifted west to accommodate the construction of a 6-foot sidewalk on the east side of the corridor.

The sidewalk improvements shall be in accordance with the American with Disabilities Act (ADA).

The scope of work outlines the effort required for the production of the construction documents will be in accordance with the City of Doral and Miami Dade County Standards and Specifications.

II. Scope of Services:

Task 1 – Pre-Design Services
Task 1.1 Survey

a) Establish horizontal and vertical project control on the datum approved by the City of Doral.
b) Perform a topographic survey with surface DTM to the entire facility including but not limited to: Flow line, edge of pavement, driveway entrances, existing utilities, building footprints, existing trees (location only), and existing grates for drainage structures.
c) Perform Quality Control on survey deliverables.

The scope of work outlines the effort required for the production of the construction documents for the entire project.

Task 1.2 Geotechnical Services – will be performed by GEOSOL. See the attached proposal for additional information.

a) Field Investigation
b) Engineering, Technical Services and Report Preparation.
c) Signed and Sealed Report to be provided to the city.
d) Soil Survey Sheet by FDOT form

Task 1.3 Utility Coordination-

a) Coordinate with utility owners for facilities within project limits.
b) Two (2) copies of the survey will be forwarded to each utility company known to operate in the vicinity of the Project Area. Each utility company will be requested to return one redline survey, identifying the horizontal and vertical location of their facilities. This information will be incorporated into the design upon receipt from the utility companies.

Task 1.4 Project Meetings/Coordination

MARLIN staff will attend meetings to coordinate the submittal and present the findings and mitigation strategies to the city, as necessary. MARLIN will provide status updates on the schedule in a timely manner.

Deliverables for this task will include:

Digitally Signed and Sealed Survey in PDF and AutoCAD file format.
Digitally signed and Sealed Geotechnical Report in PDF.

Task 2 – Plans Production

Task 2.1 – 60% Plans Production Prepare design plans for the proposed improvements for review and comments by the City of Doral.

a) Prepare complete contract set of plans including:
- Key Sheet
- Tabulation of Quantities
- General Notes
- Plan Sheets
- Traffic Control Notes/Phasing Sheet
- Signing and Pavement Marking Sheets
- Signal Plan- Signal Timing Table, Modify adjustment
- Special Detail Sheets – Drainage and ADA Ramps.

b) Calculation of quantities – Calculate quantities of construction items and tabulate.

c) Construction cost estimate – Prepare a construction cost estimate

d) Quality Control and Peer Review – Perform quality control and peer review of contract documents. If requested by the City of Doral, a copy of the marked up set of plans and/or specifications will be provided showing the consultant's QC review on each scheduled deliverable. The submittals shall include the name of the consultant staff that performed the QC review for each component.

e) Permitting – Permits will be required from the Miami-Dade County Department of Transportation and Public Works (DTPW) and the Miami-Dade County Traffic Office.
- Reviewer Coordination: The project team will respond to all comments and requests from DTPW and Traffic Office reviewers.
- Plan Revisions: Plans will be revised as necessary to address reviewer comments until final permit approval is obtained

All permitting fees are excluded from this proposal and shall be the responsibility of the City.

Deliverables for this Task will include:

60% Construction Plans Package (11"x 17")
60% Engineer's Construction Estimate

Task 2.2 - 100 % Construction Plans Production

a) Incorporate comments from previous submittal and Finalize Construction Plans Production.

b) Permitting – Obtain permits from Miami-Dade County DTPW and Miami-Dade County RER.

c) Submit the 100% plans for City review. Once all comments are addressed, or if no comments or corrections are necessary, submit the final signed and sealed construction documents and specifications to the city.

Deliverables for this Task will include:

- Final signed and sealed construction documents.
- Updated construction cost estimate.

MARLIN

III. Schedule of Work – Time of Performance

Consultant will submit the deliverable and perform the Services as stated in the table below:

Task or Activity ID#	Major Task, Sub-Task, Activity, or Deliverables	Anticipated Delivery Date
1	Pre-design Services	NTP + 4 weeks
2.1	60% Plans	NTP + 12 weeks
	Review by The City	NTP + 14 week
2.2	100% Plans/ Permitting	NTP + 20 weeks

MARLIN will provide the city with the Services defined in the Scope section above. The anticipated Notice to Proceed for these Services is TBD.

IV. Compensation

Consultant shall perform the work detailed in this Proposal for a Total fee of $ 70,598.43. The City shall not be liable for any fee, cost, expense or reimbursable expense, or other compensation beyond this amount unless approved in a supplemental work order.

SUMMARY OF COMPENSATION			
Task or Activity ID #	**Task Name and/or Activity Description**	**Fee Amount**	**Fee Basis**
1	**Pre-design Services**		
1.1	Survey	$ 12,703.04	Time & Material/Not to Exceed
1.2	Geotech	$ 10,342.32	Time & Material/Not to Exceed
1, 3	Utility Coordination	$ 3,513.36	Time & Material/Not to Exceed
2	**Plans Production**		
2.1	60% Plans/Permitting including 60% Signal Plans	$ 23,435.24	Time & Material/Not to Exceed
2.2	100% Plans/Permitting including 100% Signal Plans	$ 14,198.72	Time & Material/Not to Exceed
	10% Contingency	$ 6,418.04	
	Total Fee	$ 70,598.43	

V. Exclusions from Basic Services-

- **LAP Project Services:** If the project transitions to a Local Agency Program (LAP) project, environmental documentation, LAP-required documents, and plan submittals through the FDOT ERC system will be excluded from basic services.
- **Environmental and Tree Permitting/Tree Disposition:** Services related to environmental permitting and tree disposition are not included in this proposal.
- **Permit Fees:** All permit fees are excluded from this proposal.

VI. Additional Services

Additional services and unforeseen circumstances beyond established scope shall be negotiated in good faith and at the sole discretion of the City.

VII. City Furnished Documents & Data

The following information or documents are to be provided by the city, if available: As-built information including geotechnical information.

VIII. Project Manager

Consultant's Project Manager for this Project will be Ms. Aycel Freda, P.E.

Marlin Engineering Inc. appreciates the opportunity to submit this scope and Fee Estimate and we look forward to being of service. If you have any questions with respect to this proposal, do not hesitate to contact us. On behalf of MARLIN ENGINEERING Inc, I thank you again, for the opportunity with you on this important project.

Submitted by: _____

Aycel Freda, P.E.
Director of Business Development
Marlin Engineering, Inc

Reviewed and approved in concept recommended by:

_____

Department Director
Darlin Perez P.E- Chief of Engineering

CITY OF SOUTH MIAMI

Consultant Fee Proposal Worksheet

Consultant Name: Marlin Engineering, Inc.
Contract No.:
Date: 4/29/2025
Work Order No:

Project: NW 82 Ave from NW 36 St to NW 41 St
Project No.: Description: Sidewalk

STAFF CLASSIFICATION

Job Classification / Assigned Staff / Approved Rate	Project Manager Rafael Lagos Rate: $257.80		Senior Engineer Yenny Soca Rate: $238.40		Project Engineer Yaromil Santos Rate: $199.85		CADD Technitian Dalgis Lara Rate: $125.15		Clerical Jorge Padron Rate: $94.13		Rate:		Rate:		Staff Hours By	Salary Cost By	Average Rate Per
Task	Man hours	Cost/ Task	Man hours	Cost/ Task	Man hours	Cost/ Task	Man hours	Cost/ Task	Man hours	Cost/ Task	Man hours	Cost/ Task	Man hours	Cost/ Task	**Task**	**Task**	**Task**
1 Field Review (Payment included under Task 2)	4	$1,031	6	$1,430	2	$400									12	$2,861	$238.44
2 Utility Coordination	3	$773	4	$954			6	$751	11	$1,035					24	$3,513	$146.39
3 Task 2																	
4 Plans Production-60%	8	$2,062	8	$1,907	32	$6,395	32	$4,005							80	$14,370	$179.62
5 Signal 60 % Plans	2	$516	2	$477	16	$3,198	16	$2,002							36	$6,192	$172.01
6 Plans Production-100%	5	$1,289	5	$1,192	23	$4,597	23	$2,878							56	$9,956	$177.79
7 Signal 100% Plans	2	$516	2	$477	10	$1,999	10	$1,252							24	$4,242	$176.77
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Total Staff Hours	24		27		83		87		11						232		
Total Staff Cost		$6,187.20		$6,436.80		$16,587.55		$10,888.05		$1,035.43						**$41,135.03**	**$177.31**
Total % of Work by Position	10.3%		11.6%		35.8%		37.5%		4.7%								

Note: Fee for the Principal(s) of the firm are not to be included above as the multiplier is not applicable to their hours. The fee is to be shown below and entered as a separa

Estimate of Principal's Fee
___ Total hours _____ / hour = $ -

1 - SUBTOTAL ESTIMATED FEE:	**multiplier 1.00**	**$41,135.03**
Survey Fee (or Survey (	Marlin	$12,703.04
Geotechnical Field/Lab	Geosol	$10,342.32
Subconsultant:		
Subconsultant:		
Principal's Fee		$ -
2 - SUBTOTAL ESTIMATED FEE:		**$64,180.39**
Geotechnical Field/Lab Testing:		
Survey Fee (or Survey Crew Fee):		
Other Misc. Fee:	Enter Fee Description	
3 - SUBTOTAL ESTIMATED FEE:		**$64,180.39**
Contingency_ 10%		$6,418.04
Reimbursables (Allowance)		
GRAND TOTAL ESTIMATED FEE:		**$70,598.43**

Notes:
1. This sheet is to be used by Prime Consultant to calculate the Grand Total Fee and one is to be used for each Subconsultant
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden
3. Where applicable the basis for work activity descriptions shall be the FICE/FDOT Standard Scope and Staff Hour Estimation Handbook.
4. Enter the multiplier value in the field after the word "multiplier" Maximum of 2 decimal points.

The City of Doral
NW 82ND Avenue Sidewalk Project
Survey Fee Estimate

Description	Senior Surveyor and Mapper	Survey Tech	2 Person Crew	Total
	$202.62	$116.24	$212.15	
Research and Calculate plat(s) & right of way	1	6		$900.06
Research H/V Control; Check traverse & benchrun		2		$232.48
Traverse & Bench run		4	6	$1,737.86
Locate existing improvements on NW 82nd Avenue from the centerline of NW 36th Street to the centerline of NW 41st Street, from right of way to right of way line plus an additional 10' on each side. Improvements will include, but not be limited to, pavement, utility poles, curb, drainiage structures, above ground visible utilities, driveways, swale drainage, existing lane striping and trees 4" and larger as measured at breast height (Approx 710 LF)		4	24	$5,556.56
Obtain drainage structure data; (pipe material, size, invert and bottom of structure;		2	4	$1,081.08
Prepare survey AutoCAD Civil 3D file and signed and sealed pdf (24"x36" format), and DTM	2	24		$3,195.00
Total:				**$12,703.04**
	3	42	34	

NOTE: Canal cross sections are note included in the survey scope for this project.

Marlin Engineering
3363 W. Commercial Blvd, Suite 115
Fort Lauderdale, Florida 33309

April 11, 2025
(Revised April 29, 2025)

Attention: Mr. Rafael Lagos, PE – Chief Engineer

Re: **Proposal for Geotechnical Services**
NW 82nd Avenue from NW 36th Street
to NW 41th Street Improvements
City of Doral, Florida
GEOSOL Proposal No. P-225153-R3

Dear Mr. Lagos:

In accordance with your requests on April 11 and 29, 2025, Geosol, Inc. (GEOSOL) is pleased to submit this proposal pertaining to geotechnical services for the above-referenced project. The enclosed proposal includes an estimate of the work effort and our anticipated approach, based on our understanding of the project.

PROJECT INFORMATION

As we understand it, the City of Doral is planning to provide improvements along NW 82nd Avenue from NW 36th Street to NW 41th Street in the City of Doral, Florida. As we understand it, the proposed improvements include roadway widening along northbound NW 82nd Avenue just north of NW 36th Street, sidewalk placement along the east side of NW 82nd Avenue, as well as milling and resurfacing of the existing pavement along the project limits. Specifically, geotechnical services will be required in order to explore the subsurface conditions to provide site preparation recommendations.

SCOPE OF SERVICES

General

As requested, geotechnical services will be required for the proposed above-referenced improvements. Specifically, as requested, the geotechnical scope of services for this phase of the project includes the performance of an SPT boring for the proposed roadway widening. Also, an asphalt pavement coring program to determine the pavement thickness and composition at the site of proposed pavement improvement is required. Additionally, a Standard Penetration Test (SPT) boring will be performed at each coring location to determine the thickness and type of base and subbase materials. The following section provides a discussion regarding the proposed geotechnical investigation program. **Since the borings for the sidewalk were removed from our scope, not geotechnical recommendations will be provided.**

GEOSOL, Inc.
5795-A N.W.151st Street
Miami Lakes, FL 33014
Phone (305) 828-4367; Fax (305) 828-4235
E-mail: geosolusa@bellsouth.net

Field Exploration and Laboratory Testing Programs

1. Perform site reconnaissance, locate and coordinate for existing utilities that may interfere with the drilling operations.

2. Perform a total of one (1) SPT boring to a depth of 6 feet below grades for roadway widening along Northbound NW 82nd Avenue just north of NW 36th Street.

3. Obtain a total of two (2) pavement cores from the existing roadways for evaluation of proposed milling and resurfacing improvements.

4. Perform a total of two (2) Standard Penetration Test (SPT) borings (one at each coring location) to depths of 2 feet below the pavement to determine the thickness and type of base and subbase materials.

5. Backfill the boreholes using cement grout mix.

6. Visually examine all recovered soil/rock samples and asphalt pavement specimen in the laboratory. A geotechnical engineer will examine all recovered soil and rock samples.

For location of our tests, we will use the aerials provided to us that show the requested testing locations. We will use the aerials, existing landmarks and standard taping procedures to locate the testing locations in the field.

Geotechnical Engineering Evaluation and Reporting

Using the results of the field exploration, we will assess the geotechnical engineering impact of the subsurface conditions on the planned construction and provide recommendations for foundation design and related construction. A geotechnical engineering report of our findings and recommendations will be prepared and submitted at the conclusion of the study. The report will be prepared, signed and sealed by a professional engineer registered in the State of Florida. The report will specifically contain the following information:

- A plan of the site showing the location of the test location.
- A brief review of our test procedures and the results of the testing conducted.
- Estimated subsurface profiles as necessary to illustrate subsurface conditions including standard penetration resistance test data and groundwater levels.
- A review of surface features and site conditions that could affect construction and site preparation.
- General evaluation of the site considering the proposed project and estimated subsurface conditions.
- Pavement type, thicknesses and composition from pavement coring program.
- Construction considerations.

- Four (4) copies signed and sealed geotechnical-engineering reports.

SCHEDULE

Our study can begin within one (1) day upon receiving your formal notice to proceed. We will begin by calling SunShine One Call Services to have underground utilities marked and cleared. This task typically takes up to five (5) days. Given the scope described herein, we can complete the field study for the site within one (1) working day. The laboratory testing can be completed within a period of five (5) working days. The geotechnical report can be completed in ten (10) working days after completion of the laboratory testing program. Therefore, we can complete the requested services in about a five (5)-week period upon receiving Notice to Proceed.

FEES

Based on our general knowledge and an interpretation of your requirements, we are willing to complete the subsurface exploration and report preparation for the subject site for a total sum of $10,342.32. The unit rates used for this proposal are those from Miami-Dade County Contract No. E19-DTPW-06 for Soils, Foundations, and Geotechnical Testing Services. We have enclosed a detailed Fee Proposal for your review in Attachment 1.

GEOSOL appreciates your consideration of our firm to undertake this project. If you have any questions, please do not hesitate to contact us.

Sincerely,
GEOSOL, INC.

Oracio Riccobono, P.E.
Chief Geotechnical Engineer/President

Adnan Ismail, P.E.
Senior Geotechnical Engineer

Attachment 1 – Fee Proposal

ATTACHMENT 1

FEE PROPOSAL

GEOSOL, INC.

FEE PROPOSAL FOR GEOTECHNICAL SERVICES
NW 82nd Avenue from NW 36th Street to NW 41st Street
City of Doral, Florida

GEOSOL PROPOSAL No. P-225153-R3

DESCRIPTION	UNITS	# OF UNITS	UNIT RATE ($)	TOTAL $
1. FIELD INVESTIGATION				
Mobilization of Truck Mounted Drill Rig	day	1	$401.27	$401.27
Standard Penetration Test Borings - 1 location to 6 ft in depth for pavement widening along Northbound NW 82nd Avenue just north of NW 36th Street	feet	6	$22.93	$137.58
Asphalt Pavement Cores - 2 cores for evaluation of the proposed milling and resurfacing	each	2	$150.00	$300.00
Standard Penetration Test Borings - 2 locations to 2 ft in depth for base & subbase at each core locat	feet	4	$22.93	$91.72
Grout Seal Boreholes	feet	10	$9.17	$91.70
MOT - Cones, Barricades and Sign Devices	day	1.0	$250.00	$250.00
Off-Duty Police Officer (for borings/coring through existing pavement)	hour	8.0	$80.00	$640.00
Engineering Technician (Boring Layout, Utility Clearance, Field Meetings, MOT, etc.)	hour	5	$142.40	$712.00
SUB-TOTAL (FIELD EXPLORATION PROGRAM)				**$2,624.27**
2. LABORATORY PROGRAM				
Natural Moisture	each	2	$43.57	$87.14
Grain Size Analysis	each	2	$73.37	$146.74
Material Finer than 200 Sieve	each	2	$51.59	$103.18
Organic Content	each	2	$57.32	$114.64
Resistivity (Corrosion) Testing	each	1	$165.10	$165.10
TOTAL LABORATORY PROGRAM				**$616.80**
TOTAL FIELD AND LABORATORY PROGRAMS				**$3,241.07**
3. ENGINEERING AND TECHNICAL SERVICES				
Chief Project Engineer	hour	6	$293.76	$1,762.56
Senior Engineer	hour	8	$238.40	$1,907.20
Project Engineer	hour	12	$199.85	$2,398.20
CADD Technician	hour	6	$125.15	$750.90
Clerical	hour	3	$94.13	$282.39
SUB-TOTAL (ENGINEERING SERVICES)				**$7,101.25**
TOTAL GEOTECHNICAL FEES FOR PROJECT				**$10,342.32**