Exhibit A

AMENDMENT NO. 2
TO THE DESIGN/BUILD AGREEMENT
BETWEEN
THE CITY OF MIAMI BEACH, AND
RIC-MAN CONSTRUCTION, INC.
IN AN AMOUNT NOT-TO-EXCEED
$425,836.00

FOR THE DESIGN AND CONSTRUCTION OF AN EXTENSION OF THE BOTANICAL GARDEN ALONG THE DADE CANAL, FOR THE STORMWATER PUMP STATION ON 19TH STREET BETWEEN CONVENTION CENTER DRIVE AND MERIDIAN AVENUE PROJECT

This Amendment No. 2 to the Agreement made and entered this __day of____2018, by and between the CITY OF MIAMI BEACH, a municipal corporation existing under the laws of the State of Florida, having its principal offices at 1700 Convention Center Drive, Miami Beach, Florida 33139 (hereinafter referred to as CITY), and Ric-Man Construction, Inc., as Design/Builder, having its offices at 3100 SW 15th Street, Deerfield Beach, Florida 33442 (hereinafter referred to as Ric-Man).

RECITALS

WHEREAS, on January 17, 2017 the City entered into a Design/Build Agreement with Ric-Man to develop, design, and construct the Stormwater Pump Station on 19th Street between Convention Center Drive and Meridian Avenue in the amount of $6,332,389.80; and

WHEREAS, as part of the scope of the Project, Ric-Man is to replace the existing seawall along the south perimeter of Collins Canal, abutting the Miami Beach Botanical Garden (Botanical Garden) property and the Holocaust Memorial and in order to gain access to the seawall and complete its replacement, some of the surrounding landscaping and portions of the existing walkway bordering Collins Canal in the vicinity of the Botanical Garden will be affected; and

WHEREAS, at the June 16, 2017 FCWPC meeting, the item was presented and the committee favorably recommended to City Commission, to proceed with the design and construction of the improvements north of the Botanical Garden; and

WHEREAS, staff recommended that a Change Order to the current Agreement between Ric-Man and the City be issued to incorporate the proposed extension of the Botanical Garden as part of their seawall reconstruction; and

WHEREAS, Ric-Man has submitted a proposal to perform the aforementioned Botanical Garden work for the amount of $387,123.61 and the Public Works Department and the Office of Capital Improvement Projects have found this proposal to be fair and reasonable; and

WHEREAS, on February 9, 2018, Amendment No. 1 to the Design/Build Agreement was executed, for $630,013.00 as requested by the City Commission under Resolution 2017-30020, to incorporate a permanent emergency generator as part of the Project; and

WHEREAS, this Amendment No. 1 revised the total contract amount to $6,962,402.80; and

WHEREAS, this Amendment No. 2, in the amount of $387,124.00, plus $38,712.00 owner's contingency, will revise the total contract amount to a not-to-exceed total of $7,388,238.80.

NOW, THEREFORE, the parties hereto, and in consideration of the mutual promises, covenants, agreements, terms, and conditions herein contained, and other good and valuable consideration, the respect and adequacy are hereby acknowledged, do agree as follows:

1. **ABOVE RECITALS**

The above recitals are true and correct and are incorporated as a part of this Amendment No. 2.

2. **MODIFICATIONS**

The Agreement is amended to incorporate Exhibit "A-1 (proposal) attached hereto.

3. **OTHER PROVISIONS**

All other provisions of the Agreement, as amended, are unchanged.

4. **RATIFICATION**

The City and Consultant ratify the terms of the Agreement, as amended by this Amendment No. 2.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 2 to be executed in their names by their duly authorized officials as of the date first set forth above.

ATTEST:	CITY OF MIAMI BEACH, FLORIDA
Rafael E. Granado, City Clerk	Dan Gelber City Mayor
ATTEST:	DESIGN/BUILDER: **RIC-MAN CONSTRUCTION FLORIDA, INC.**
Secretary	President
Print Name	Print Name

Attachment: Exhibit A-1

RIC-MAN CONST. FL, INC. DEERFIELD BEACH, FLORIDA
3100 SW 15th Street
Deerfield Beach, Florida 33442
Office:(954)426-1221
Fax:(954)426-1226

City of Miami Beach
1700 Convention Center Drive
Miami Beach, FL 33139
Attn: Jorge Rodriguez

January 18, 2018
Sent Via Email
Original Email Sent on 1/5/2018

Re: RFP NO. 2016-052-KB Design/Build Services for Stormwater Pump Station on 19th Street Between Convention Center Drive and Meridian Avenue (Phase II)

Subject: Botanical Gardens Change Order

Jorge,

As a follow-up to the meeting with Botanical Gardens in Mid-December and to supplement our submission made to you on 12/9/17, please accept this final version of our estimate to perform the extra work contemplated along the newly constructed Sea Wall bordering the Holocaust Memorial and Convention Center Drive. Our revised cost is **$ 387,123.61** as detailed on the attached spread sheet along with support documentation attached.

As previously stated we recommend a healthy contingency for this work since the Botanical Garden management may request upgrades not included in the attached scope of work. Also, a time extension will be required to the contract if Notice to Proceed is not provided on or before January 31, 2018.

With respect to the Landscaping component of the work, it is RMCF's position that the plantings defined under the 100% drawings at the Seawall area are covered under the Contingency Allowance for Landscaping, item 33 in the amount of $50,000. Our support for this is the description of work in the DCP and as supported under Addendum 4- Question 23 wherein the City confirmed that "The allowance provided in the cost proposal form will be for the construction of any Landscaping required at the seawall and energy dissipater. (Addendum 4 attached). Consequently, RMCF carried no budget for Landscaping in its original proposal over and above item 33.

We await your approval to proceed with this important work.

Regards,

Michael R. Fischer, COO.
Ric-Man Construction FL, Inc.

RIC-MAN CONST. FL, INC. DEERFIELD BEACH, FLORIDA
3100 SW 15th Street
Deerfield Beach, Florida 33442
Office:(954)426-1221
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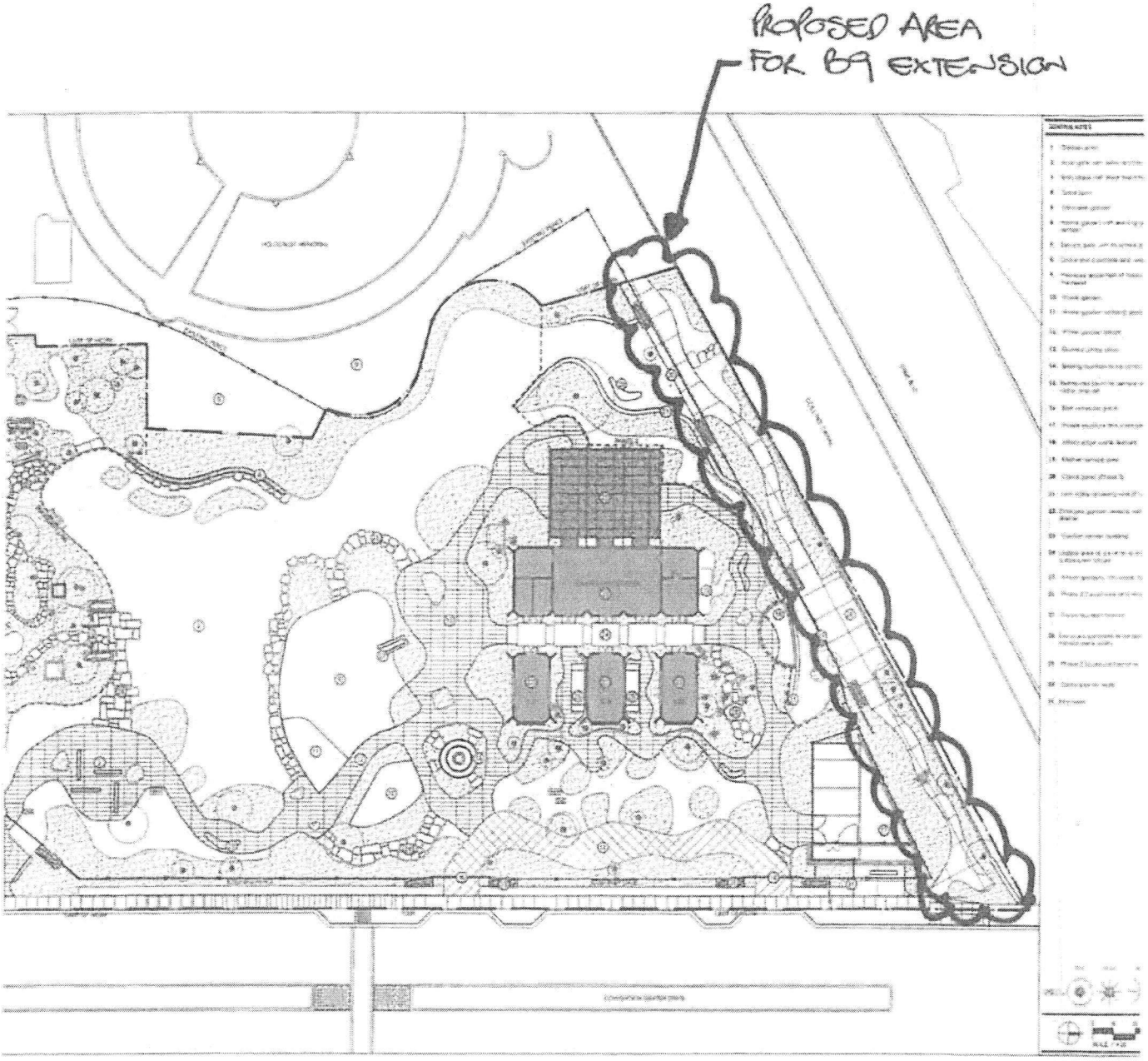
3100 SW 15th Street
Deerfield Beach, Florida 33442
Office:(954)426-1221
Fax:(954)426-1226

CC:
Jon Klion
Carlos Tort
Luis Soto
Sabrina Baglieri

Botanical Garden CO
PS-052- 19th Street **01/05/2018**

Assumptions
Security Gate in Core center drive and 2 ROP rig gates included
Gas relocated by others
Overhead lines relocated by others
No water features included
Kayak access not included
New sidewalk connected to existing Holocaust walkway
Price includes landscaping removed during demolition operation for new sea wall. ROP contemplated landscaping as an allowance item
Exfiltration trench and connection to existing drain included
Grading and fill material included as needed
Irrigation system included as an allowance of $10,000
City light Bollards included 8 ea
Steel Benches 2 ea included
Lichte Planters included 4 ea
Existing gas line abandoned
Landscaping based on L-2 and L-3 of 100% Contract Drawings
Arborist services not included

Item	Quantity	Subcontractor	Material	Labor MH	Labor Rate	Labor Total	Equipment	Total
Design Fee / permits		$ 66,517.48						$ 66,517.48
Construction Site Inspection		$ 11,222.00						$ 11,222.00
Demo existing walkway	1,900 SF		$ -	60	46	$ 2,760.00	$ 2,100.00	$ 4,860.00
Sidewalk Rock salt finish, 4" reinforced base	4,200 SF	$ 16,918.00	$ 2,413.00	40	51	$ 2,040.00	$ 1,312.00	$ 22,683.00
Fill material - Import fill to subgrade	580 cy		$ 9,695.00	64	51	$ 3,264.00	$ 2,416.00	$ 15,375.00
General grading work	12,000 SF			64	51	$ 3,264.00	$ 1,319.00	$ 4,583.00
Lichte planters @ 36ph	4 ea	$ 4,080.00	$ 19,360.00	64	46	$ 2,944.00	$ 420.00	$ 26,744.00
Steel animal Benches w/ back	2 ea		$ 1,200.00	6	46	$ 868.00	$ 200.00	$ 2,268.00
Steel Receptacles 35 gal Plaza Street	3 ea		$ 1,800.00	3	46	$ 138.00	$ -	$ 1,938.00
Access Gates rolling 40' long @ 6' h	2 ea	$ 9,600.00		20	51	$ 1,020.00	$ 420.00	$ 11,040.00
Core center Drive entry gate @ 6' h	1 ea	$ 960.00		10	51	$ 510.00	$ 250.00	$ 1,720.00
Planting and sod	3,500 SF	$ 84,100.00		75	46	$ 3,450.00	$ 1,875.00	$ 89,425.00
Irrigation system	3,500 SF	$ 10,000.00		50	46	$ 2,300.00	$ 1,250.00	$ 13,550.00
Lighting system bollards	8 ea	$ 10,800.00		48	46	$ 2,208.00	$ 1,200.00	$ 14,208.00
Cement fountain drain to SD								
Exfiltration Trench 10'x15' + MH	150 LF		$ 15,716.00	91	54	$ 4,914.00	$ 640.00	$ 21,270.00
Foundation Drain to San Sewer	67		$ 750.00	75	51	$ 3,825.00	$ 875.00	$ 5,450.00
Ric Man Proj Engineer				80	65	$ 5,200.00		$ 5,200.00
Ric Man PM @ 5%				20	97	$ 1,940.00	$ 1,000.00	$ 3,940.00
Ric Man Supt @ 5%				120	75	$ 9,000.00	$ 1,200.00	$ 10,200.00
Field Survey 3120				40	120	$ 4,800.00	$ 400.00	$ 5,200.00
Subtotal		$ 212,309.48	$ 51,774.00			$ 53,945.00	$ 13,807.00	$ 331,955.48
Tax 7%			$ 3,624.00					$ 3,624.00
CH&P 5/10		$ 10,615.47	$ 6,540.00			$ 5,395.00	$ 1,493.00	$ 24,043.47
Total		$ 222,924.95	$ 60,938.00			$ 59,340.00	$ 15,300.00	$ 379,532.95
2% Bond and Insurance								$ 7,590.66
TOTAL PROPOSAL								**$ 387,123.61**


PROPOSED AREA
FOR B9 EXTENSION

→ Melissa 15
Yancy (EST) 22

01/02/2018

Arazoza Bros., Corp.

P.O. Box 924890, Homestead, FL 33092 - (305) 246-3223 Fax (305) 246-0481

LI 5754-17R 19th Street Miami Beach Pump Station - Revised

Description	Size	Total Qty	Unit Cost	Total Cost
Trees & Palms				
Bambusa malingensis/Seabreeze Bamboo	12' OA Ht.	26	$750.00	$19,500.00
Bursera simaruba/Gumbo Limbo	12' OA Ht., 2.5" Cal.	6	$450.00	$2,700.00
Coccoloba diversifolia/Pigeon Plum	12' OA Ht., 2.5" Cal.	11	$550.00	$6,050.00
Conocarpus erectus 'Sericeus'/Silver Buttonwood	12' OA Ht., 2.5" Cal.	7	$400.00	$2,800.00
Conocarpus erectus/Green Buttonwood	12' OA Ht., 2.5" Cal.	12	$400.00	$4,800.00
Cordia sebestena/Orange Geiger	12' OA Ht., 2.5" Cal.	7	$550.00	$3,850.00
Myrcianthes fragrnas/Simpson Stopper	16' Ht., 3" Cal.	21	$1,250.00	$26,250.00
Quercus virginiana/Live Oak	12' OA Ht., 2.5" Cal.	4+ 4	$550.00	$2,200.00 4,400
Thrinax radiata/Florida Thatch Palm	6' CT, Matched	26	$1,500.00	$39,000.00
		Rev ↑ 83,100		$107,150.00
Relocates				
Calyptranthes pallens/Spicewood	10-12' Ht. X 8-10' Spr., 2-6" DBH	1	$750.00	$750.00
Chamaedorea spp./Bamboo Palm	8' Ht. X 8' Spr.	1	$400.00	$400.00
Guaiacum sanctum/Lignum vitae	8' Ht. X 6' Spr., 2" DBH	1	$900.00	$900.00
Hamelia patens/Firebush	15' Ht. X 15' Spr., 8" DBH	1	$1,000.00	$1,000.00
Myrcianthes fragrnas/Simpson Stopper	10' Ht. X 8' Spr., 2.5" DBH	1	$500.00	$500.00
Sabal palmetto/Sabal Palm	15-20' Ht. X 12' Spr., 10" DBH	3	$400.00	$1,200.00
Scaefferia frutescens/Florida Boxwood	8' Ht. X 8' Spr., 3" DBH	1	$500.00	$500.00 N/A
				$5,250.00
Total Landscape...:				$112,400.00
Budget: Irrigation System	Lump Sum	1	$10,000.00	$10,000.00
Irrigation				$10,000.00
Total Irrigation:				$10,000.00
Grand Total				$122,400.00

Qualifications:

L-2, L-3

Landscape...

* Landscape proposal is based upon drawing L-4 last dated 11/21/2017 by Miller Legg.
* Excavation of planting areas, soil to finish grade by others. All landscaped areas to be received denuded at +/- 1" of finish grade. Excavation and Backfill of soils is not included in proposal. Soil and
* All work associated with existing trees/plants/lawns to remain (including tree protection), be removed, or be relocated is not included in proposal. Tree excav digging by AB
* Standard 2" x 4" wood bracing for trees and palms is included in proposal.
* Initial fertilizer is included in proposal.
* Tree grates, site furnishing, and hardscape items are not included in proposal.
* Maintenance through acceptance only is included in proposal.
* Root barrier, weed cloth and filter fabric are not included in proposal.
* Structural soil (if needed) is not included in proposal.
* Landscape permit fee is not included in proposal.
* All living material to be provided will be Florida #1 quality according to the Florida Grades & Standards.
* New installations are guaranteed for 1 year from completion/final acceptance.
* White Mangrove not included in proposal. Not Available. Any substitutes → USE LIVE OAK

4 White Mangrove Not Avail

Arazoza Bros., Corp.

P.O. Box 924890, Homestead, FL 33092 - (305) 246-3223 Fax (305) 246-0481

Qualifications:

Irrigation..

* Irrigation proposal is based upon drawings L-2 last dated 11/21/2017 by Miller Legg.
* Electrical drop and power hook-up fees for pump stations and controllers is not included in proposal.
* Trenching through/boring under existing paving/asphalt, or coring through existing concrete, are not included in proposal.
* Water meter, deposit tapping services, service charges, and/or capital or impact fees are not included in proposal.
* SFWMD fees are not included in proposal.
* Pipe hanging is not included in proposal.
* All sleeves are to be open cut; no bores are included in proposal.
* No consideration was given to the condition of any existing system herein.
* Irrigation permit fee is not included in proposal.
* 'Flowable Fill' (if needed) is not included in proposal.
* Irrigation pump/well are not included in proposal.
* Irrigation proposal is strictly budgetary and subject to change pending completed irriagtion drawings. (Design fees are not included if required)

General..

* Any item not specifically listed is excluded from proposal.
* Bond is not included in proposal.
* MOT is not included in proposal, unless specifically detailed.
* Hoisting of material, if needed, is not included in proposal.
* This proposal shall be valid for ninety (90) days from date of issue.
* Alternates, if present, are to be added to the cost of proposal.
* Please read all qualifications carefully, as there could be references to specific materials, quantities, or pricing that pertain to this particular project.

Accepted By: _____ Date: _____

Submitted By: _____ Date: _____

**Acceptance shall serve as notice that proposal has been reviewed and approved and contract is forthcoming.

A U S T I N T U P L E R T R U C K I N G I N C.
M & G F I L L C O R P.
6570 S.W. 47TH COURT
DAVIE, FLORIDA 33314
PHONE (954) 583-0801
FAX (954) 583-0844

Customer :RIC-MAN CONSTRUCTION, INC. Quoted To:BRUCE
Project Name: BOTANICAL GARDENS Phone#: 954-426-1221
Project Address: 2000 CONVENTION CENTER DR Fax # : 954-426-1226
MIAMI BEACH
Quote Date : 12/06/17

DELIVERED PRICES OF TRUCKING AND MATERIALS

These estimates are based on payment being made on a monthly basis with no retainage. These estimates are subject to change if FAX is not returned within five (5) working days of the date listed above. TAXES ARE INCLUDED IN THESE PRICES. These Prices do not include supplying a Performance or Payment Bond.

Exp-Date	Quote#-Det	Type of Material	Rate Per(Ton/Cyd)		
12/31/18	198210- 1	CR. LIME ROCK	$ 15.57	Per	TON Incl. Tax
12/31/18	**198210- 2**	**# 57 ROCK**	**$ 23.27**	**Per**	**TON Incl.** Tax
12/31/18	198210- 3	SAND FILL	$ 12.61	Per	TON Incl. Tax
6/30/18	198210- 4	TOP SOIL	$ 12.17	Per	YRD Incl. Tax
6/30/18	198210- 5	50/50 SAND/TOP SOIL	$ 19.39	Per	YRD Incl. Tax

Note: a 7.00 % Tax is included in the above prices. Any difference on the taxes will have to be paid by the customer. There will be a Diesel Surcharge of 2% for every $ .10 that diesel prices go up higher than $ 3.00 per Gallon (see www.fuelgaugereport.com). All prices are based on hauling full size loads ONLY unless otherwise specified. -3: SAND FILL GOOD FOR SIDEWALKS, NOT FOR SODDING

By signing delivery tickets, customer is fully liable for all trucking and materials and no credits or discounts will be given after tickets are signed. Prices are subject to change if the Quarry we are trucking from cannot fulfill it's obligation. Damage claims must be brought to our attention within twenty four (24) hours by Fax (954-583-0844) of occurrence with proof of all related cause of claim. Prices and deliveries cannot be guaranteed in the event of hurricane emergency clean up or work stoppages caused by any Unions or Labor Organizations.

Accepted By:

_____
Company name

_____
Name Title

_____

PLEASE CALL ME IF YOU HAVE ANY QUESTIONS

FROM : ERNIE CEBALLOS

A & M Brothers Concrete Corp.
95 NE 12 Street
Homestead Fl, 33030
Phone: (786) 296 5979
a.m.concrete@hotmail.com

PROPOSAL / CONTRACT
PROPOSAL VALID FOR 90 (NINETY) CALENDAR DAYS
Date: December 6, 2017,

CONTRACTOR:RIC-MAN
Attn: BRUCE ROEMMICH
Email: broemmich@ric-man.com
PHONE:
COUNTY:
PROJECT NAME: BOTANICA GARDENS

Item	Description	Units	Unit price	Quantity	Total Amount
	6" Sidewalk with wire mesh (Rock salt finish)	S Y	$38.00	445	$ 16,910.00
	Note: Final Invoice base on a Field measurements		TOTAL		

PRICE INCLUIDE LABOR, MATERIALS WIRE MESH AND 3000 REG CONCRETE.		$ 16,910.00
Field Office, Inspections, Concrete Cylinder Test are NOT included	Maintenance of Traffic NOT included.	
Fill Materials. Grading and Base Preparation are NOT included	Bond/Layout/As Built NOT included.	
Lime rock Base and Subgrade are NOT included.	Concrete Pump are NOT included.	

PAYMENT TO A & M Brothers Concrete Corp. is due within 30 days of receipt of this invoice. Any payment not received timely, shall be subject to interest at the rate of 1.5 % per month. In the event of legal action is required to enforce this invoice, A & M Brothers Concrete shall be entitled to recover its attorneys' fee and coast.

ACCEPTANCE OF PROPOSAL/CONTRACT: RIC-MAN

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date_____

_____
Name / Title

_____
Signature

Michael Fischer

From: Carlos Tort
Sent: Thursday, December 07, 2017 2:34 PM
To: Michael Fischer
Cc: Jonathan Klion
Subject: Botanical Gardens Gate Price

Mike I requested a quote from Solis Iron Works (I sent you and Bruce the contact info), they didn't provide a hard copy quote even though I asked for it instead they sent me a text message showing me the price.
They charge $120.00 LFT of gate 10' ft tall or less it includes the fabrication, installation and paint.
40' Rolling Gate @ $4800.00 each
8' x 6' Security Gate @ $960.00

Carlos Tort, EI
Project Engineer
Ric-Man Construction Fl, Inc.
Cell:787-225-6194
Office:305-379-4000

RIC-MAN CONST. FL, INC. DEERFIELD BEACH, FLORIDA

www.mancinicompanies.com

Bruce Roemmich

From: Bruce Roemmich
Sent: Thursday, July 13, 2017 8:37 AM
To: Albert Dominguez
Subject: oolite

I spoke with Lewis from Epic Stoneworks (305-255-2848) this morning and we will need to take care of the cranes to load at his place and unload at the job site he will take care of the trucking from his pit which is in Homestead He also advised to place the planters on a concrete slab do to the weight of them his price for the planters is 4600.00 and 200.00 for each one for trucking then we need to take care of the concrete slab, and the cranes if you have any further questions please call him, remember I think you might be a little low on those tree removals since we will need to trim some of them up so we can get in there and work

www.theparkcatalog.com

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- Steel Strap Trash Receptacles
- Expanded Steel Trash Receptacles
- Perforated Steel Trash Receptacles

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Price

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Quickship
- Yes

Gallon Capacity
- < 9 Gallons
- 10 - 19 Gallons
- 20 - 29 Gallons
- 30 - 39 Gallons
- 40 - 49 Gallons
- > 50 Gallons

Lid Type
- Ashtray Top
- Bullet Top
- Dome Top/Self Closing
- Flat Top/Pitch-In
- Hooded Top
- Rain Bonnet Top
- Recycler Top

Ashtray Option
- Yes

Load Type
- Side Load
- Top Load

Shape
- Rectangular
- Round
- Square

Steel Trash Receptacles



Plaza Steel Strap Trash Receptacle - 36 Gallon

$599.00

Qty

SAVE 29%

Add to Cart



32-Gal Expanded Metal Trash Receptacle

$299.00

Qty

SAVE 5%

Add to Cart



55-Gal Expanded Metal Trash Receptacle

$336.00

Qty

SAVE 21%

Add to Cart



Perforated Pattern Trash Receptacle

$414.00

Qty

SAVE 27%

Add to Cart



Fiesta Pattern Trash Receptacle

$437.00

Qty

SAVE 2

Add to Cart



31-Gallon Galvanized Trash Can

$100.00

Qty

SAVE 0

Add to Cart

3 EACH



32-Gal Steel Strap Receptacle

$599.00

Qty

Add to Cart

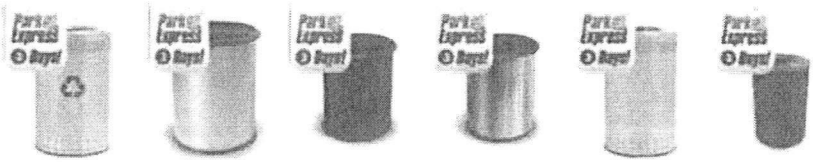


Parkview 3 Steel 45 Gal Trash Receptacle

$599.00

Qty

Add to Cart



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COURTYARD FURNITURE

An elegant choice for hotels and shopping centers.

- Glossy, weather resistant powder-coated finish.
- Durable, heavy-duty steel bar construction.
- Benches - Smooth, comfortable seat and armrests. Pre-drilled for surface mounting.
- Planter - Commodious 14-gallon liner for all foliage.
- Bench mounting hardware sold separately.
- Coordinating Courtyard Receptacle available.

COURTYARD FURNITURE

MODEL NO.	DESCRIPTION	SIZE L x W x H	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART
H-3018	6' Bench with Back	71 x 26 x 32"	253	$1,065	$985	1 ADD
H-3019	6' Bench without Back	71 x 21 x 25"	192	805	745	1 ADD
H-3020	Planter	30" Diam. x 26" H	104	610	565	1 ADD

DROP SHIPS ASSEMBLED IN 1 DAY FROM WI VIA MOTOR FREIGHT

MOUNTING HARDWARE

MODEL NO.	DESCRIPTION	FITS	PRICE EACH 1	PRICE EACH 3+	ADD TO CART
H-3021	Bench Mounting Hardware	H-3018 or H-3019	$19	$18	1 ADD

DROP SHIPS IN 1 DAY FROM WI

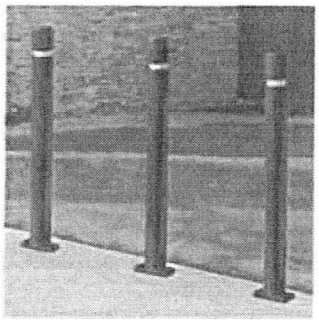
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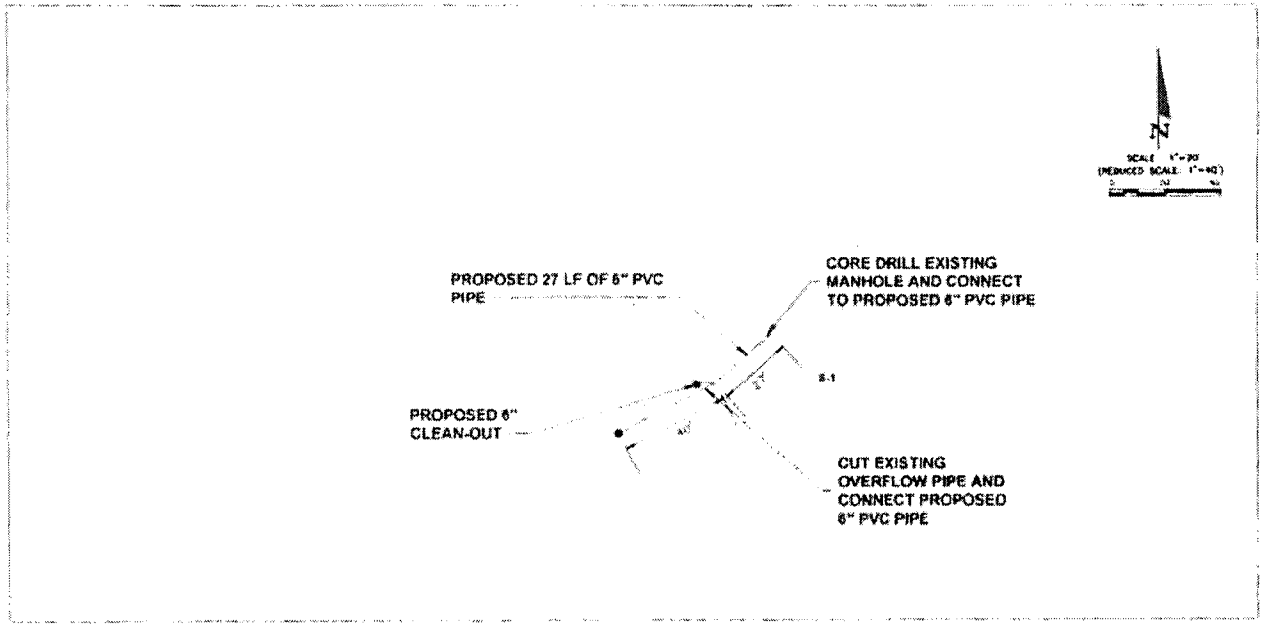
LANDSCAPE BOLLARDS

Increase safety with great style around your building and walkways.

- Flexes on impact. Rebounds to its original form.
- Elastomeric polymer. Never needs painting, won't rust or dent.
- Safer than traditional cast iron or steel bollards.
- Installs securely with 4 cement lag bolts.
- Flat Top - Reflective stripe adds 360° visibility.

LANDSCAPE BOLLARDS — Includes concrete mounting hardware

MODEL NO.	DESCRIPTION	HEIGHT	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART
H-5173	Round Top	41"	9	$305	$285	1 ADD
H-5174	Flat Top					1 ADD



MIAMIBEACH
PUBLIC WORKS DEPARTMENT

19th ST PUMP STATION

DRAINAGE PLAN

EXHIBIT D- AMENDMENT 5

DESIGN SCOPE AND FEES

(following page)

DESIGN/ SERVICES FOR STORMWATER PUMP STATION ON 19TH STREET BETWEEN CONVENTION CENTER DRIVE AND MERIDIAN AVENUE ADDITIONAL SERVICES AMMENDMENT No. 5 BOTANICAL GARDEN EXPANSION

January 3, 2018

Prepared By:

7650 Corporate Center Drive
Suite 300
Miami, FL 33126

Table of Contents

DESCRIPTION OF SERVICES

Design and Permitting

- 60% Design Submittal
- 100% Design Submittal
- Limited Construction Support Services

COMPENSATION

ASSUMPTIONS

List of Attachments

A. Project Location
B. Consultant Fee proposal
C. Sub-consultants Fee Proposal
D. Design Schedule

DESCRIPTION OF ADDITIONAL SERVICES

The scope of work is revised to include Botanical Garden Expansion improvements. The proposed scope of work is based on the request received from the City of Miami Beach on June 2017.

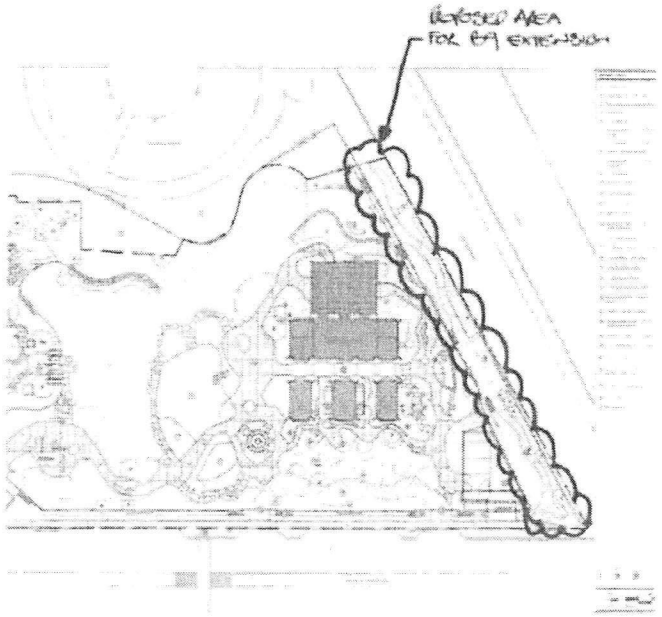


Figure No. 01

Additional services to be provided shall include the following activities:

- Civil Engineering Design, including paving, grading and drainage for the area shown on Figure No. 01
- Structural Engineering including fence and ancillary structures design
- Electrical Engineering including circuiting, lighting specs and photometrics
- Landscape Architecture including hardscape, landscape and irrigation design.

Design Services

WSP shall prepare and submit design plans as part of the following phases:

60% Design Submittal

For the development of this sub-task, **WSP** shall provide the following:

- Site Plan / Demolition Plan, Legend and Notes
- Fence structural plan and details
- Lighting Plan including:

- Conducting a site visit to ascertain the existing conditions.
- Coordination with City and utility company for verification of power availability.
- Coordinate bollard/fixtures to be used, in accordance with City standards.
- Prepare construction documents including circuiting, lighting specifications, photometrics, etc.
- Provide construction specifications.

- Landscape and Irrigation (see attachment C for scope of services)

60% Deliverables:

- 60% Design Plans as follows:
  - Three (3) Copies, 24" x 36" Design Plans

100% Design Submittal/Issued for Construction (IFC) -

The 100% Additional Services Submittal will include the following items:

- Copy of Comments and Responses from 60% Submittal
- IFC Package containing Plan Sheets,

100% Deliverables:

- Provide Revised 100% Design Plans as follows:
  - Three (3) signed and sealed sets, 24" x 36" Design Plans

Limited Construction Support Services

The Limited Construction Support Services will include the following items:

- Responses to Request for Information (RFI)
- Review and approval of Shop Drawings (maximum 3 submittals each)
- As-Built Certification

Limited Construction Services Deliverables:

- Response up to 5 RFI's related to the Botanical Garden expansion
- Review and approval of up to 10 Shop Drawings (maximum 2 submittals each)
- As Built certification set.

COMPENSATION

The additional services described in the amendment to the Scope of Work shall be performed on a lump sum fee basis in the amount of **SEVENTY-SEVEN THOUSAND SEVEN HUNDRED THIRTY-NINE DOLLARS AND FORTY-EIGHT CENTS** ($77,739.48). Reimbursable expenses for this contract include, printing and reproduction costs. Fees for limited construction

support services are accounted for in the total compensation.

See attachment B for man-hour estimate for the additional services.

See attachment C for Sub consultant Scope of Services breakdown for additional services.

ASSUMPTIONS

This scope of work and deliverables are based on the following assumptions:

- At the end of each design milestone (60%, 100%), Owner/Client will review the plans and technical specifications (if available) and forward review comments to **WSP** within 15 calendar days.
- **WSP** shall make every effort to expedite the design process, including making necessary revisions (if necessary) to procure permits.
- A copy of all project related correspondence sent or received by **WSP** shall be sent to the Client/Owner as needed
- **WSP** will utilize the City of Miami Beach's latest standard forms, construction contracts, standard design details, and design criteria and policies in completing the Construction Package.
- Client will provide all construction observation services. WSP shall only provide support with RFI and shop drawings review.
- Surveying services during construction are not included.
- Utility relocations and test hole underground investigations are not part of the scope of work.
- Landscape plan to be completed to comply with existing Tree Disposition Plan.
- No soil investigation is included as part of the scope of work.
- It is understood that current R/W permit covers the improvements associated with the proposed design.
- No dewatering activities are anticipated; therefore, a Class V permit is not included.

Design/Build Services for Stormwater Pump Station on 19th Street Between Convention Center Drive and Meridian Avenue

All DBIA assumptions remain in effect. In executing this Amendment 5 to the Agreement, Design-Builder and Design Consultant each individually represents that it has the necessary financial resources to fulfill its obligations under this Agreement, and each has the necessary corporate approvals to execute this Amendment, and perform the Services described herein.

DESIGN-BUILDER:

RIC-MAN CONSTRUCTION
(Name of Design-Builder)

(Signature)

Michael Fischer
(Printed Name)

COO
(Title)

Date:

DESIGN CONSULTANT:

WSP USA, INC.
(Name of Design Consultant)



(Signature)

Rodrigo Pigna
(Printed Name)

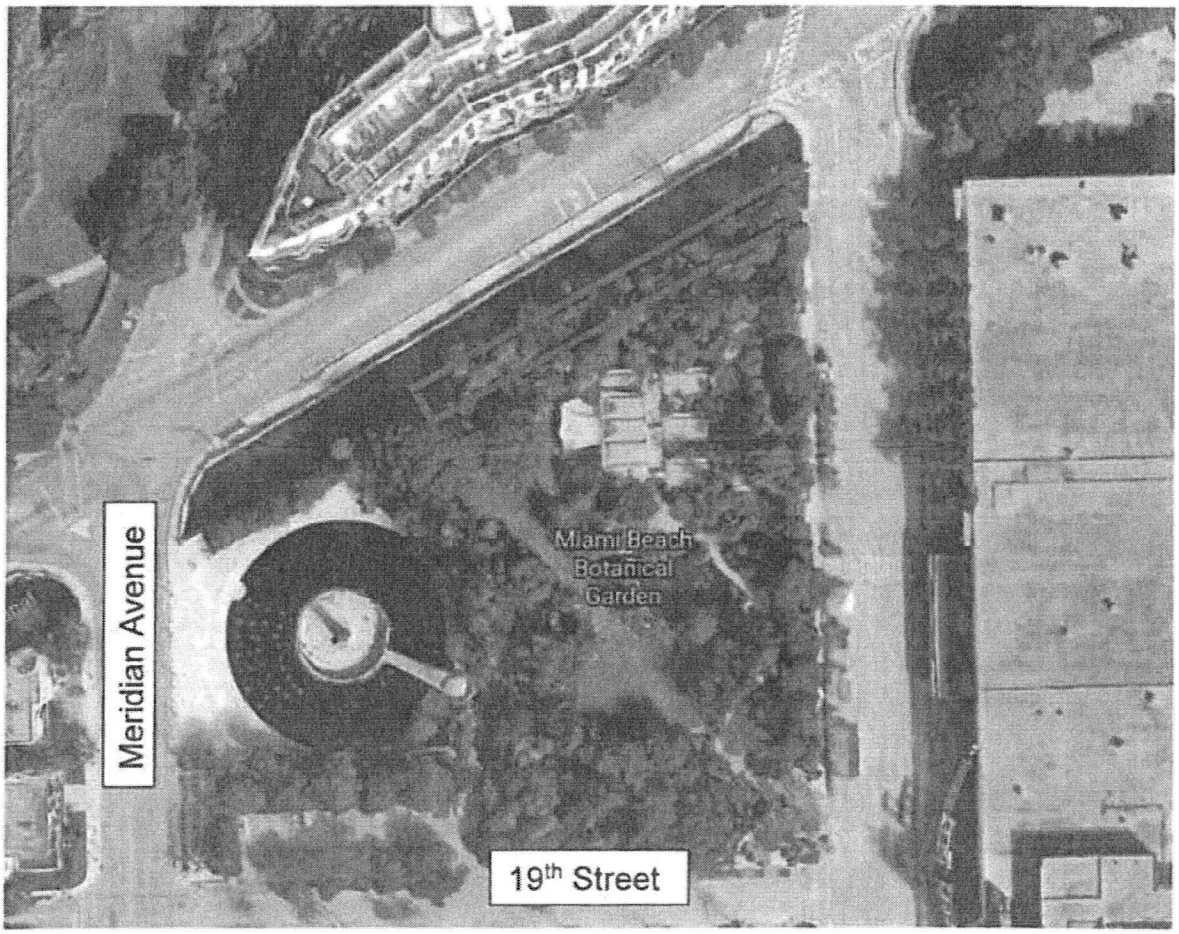
Area Manager
(Title)

Date: 01/04/18

ATTACHMENT A

PROJECT LOCATION

Design/Build Services for Stormwater Pump Station on 19th Street Between Convention Center Drive and Meridian Avenue



ATTACHMENT B

CONSULTANT FEE PROPOSAL

ESTIMATE FOR ENGINEERING SERVICES

PROJECT: DB Services for the Construction of Pump Station
CLIENT: Rio Man Construction Florida, Inc.
ESTIMATOR: WR / RP

M:\Proposals\Design-Build\Miami Beach Stormwater Pump Station\020418_08-19th ST InDesign Files_DB2018003209A\Phase II\Accounting
Wednesday, January 03, 2018

DESCRIPTION: Design and limited construction services for Botanical Garden North Expansion

		DIRECT LABOR (MAN-HOURS)								Sub-Consultants	
		Principal	Senior Registered Professional/ PM	Registered Professional	Junior Professional	Structures Manager	Structural Engineer	Structures QC	WPS/PB Line Item		
		-B-	-C-	-D-	-E-	-F-	-G-	-H-	Totals	Miller Legg	
TASK											
02					60% Detailed Design						
02.1010	60% Civil Design			8.0	16.0	24.0				$4,836	
02.8610	60% electrical engineering			2.0	8.0	16.0				$2,787	
	60% Structural			8.0		24.0	2.0	24.0	2.0	$9,146	
	Landscape and Irrigation				4.0					$531	$ 4,750.00
	60% QA/QC				4.0					$531	
02.8630	60% Review with City of Miami Beach, incorporate comments and issues			4.0						$924	
	TOTAL HOURS	0.00		22.00	32.00	64.00	2.00	24.00	2.00		
	RAW LABOR ($/HOUR)	$ 98.94		$ 61.74	$ 47.00	$ 27.50	$ 100.00	$ 52.00	$ 61.14		
	CONTRACT MULTIPLIER	2.825		2.825	2.825	2.825	2.825	2.825	2.825		
	LABOR RATE ($/HOUR)	$ 279.46		$ 230.92	$ 132.78	$ 77.69	$ 282.50	$ 146.90	$ 172.72		
	Sub-Total	$ -		$ 5,080.14	$ 4,248.80	$ 4,972.00	$ 565.00	$ 3,525.60	$ 345.44	$ 18,736.98	$ 4,750.00
	Total Task 02					$23,486.98					
03					90% Detailed Design						
03.1010	90% Civil Design			8.0	12.0	16.0				$4,664	
03.8620	90% electrical engineering			4.0	8.0	8.0				$2,697	
	90% Structural			4.0		16.0	2.0	16.0	4.0	$3,773	
	Landscape and Irrigation				4.0					$531	$ 4,900.00
	90% QA/QC				4.0					$531	
03.8630	90% Review with City of Miami Beach, incorporate comments and issues			4.0						$924	
	TOTAL HOURS	0.00		20.00	28.00	40.00	2.00	16.00	4.00		
	RAW LABOR ($/HOUR)	$ 98.94		$ 61.74	$ 47.00	$ 27.50	$ 100.00	$ 52.00	$ 61.14		
	CONTRACT MULTIPLIER	2.825		2.825	2.825	2.825	2.825	2.825	2.825		
	LABOR RATE ($/HOUR)	$ -		$ 4,618.31	$ 3,717.70	$ 3,107.50	$ 282.50	$ 2,352.40	$ 688.88	$ 15,049.79	$ 4,900.00
	Total Task 03					$19,949.79					
05					100% Design Drawings (IFC)						
05.1010	100% Civil Design			8.0	8.0	32.0				$5,508	
03.8630	100% electrical engineering			4.0	4.0	16.0				$2,808	
	100% Structural			4.0		32.0	2.0	16.0	4.0	$7,016	
	Landscape and Irrigation				4.0					$1,062	$ 4,900.00
	100% QA/QC				4.0					$1,062	
05.8630	100% Review with City of Miami Beach, incorporate comments and issues			4.0						$1,847	
	TOTAL HOURS	0.00		24.00	28.00	88.00	2.00	16.00	4.00		
	RAW LABOR ($/HOUR)	$ 98.94		$ 61.74	$ 47.00	$ 27.50	$ 100.00	$ 52.00	$ 61.14		
	CONTRACT MULTIPLIER	2.825		2.825	2.825	2.825	2.825	2.825	2.825		
	LABOR RATE ($/HOUR)	$ 279.46		$ 230.92	$ 132.78	$ 77.69	$ 282.50	$ 146.90	$ 172.72		
	Sub-Total	$ -		$ 5,541.97	$ 3,717.70	$ 6,835.00	$ 565.00	$ 2,350.40	$ 688.88	$ 19,691.95	$ 4,900.00
	Total Task 05					$23,888.35					
06					Limited Construction Period Services						
06.8120	Weekly Inspections			8.0		40.0				$4,955	
06.8110	Address Construction Period RFI's (Assume 2/wk 1st 3 months, 1/2 wks remainder)			8.0		24.0				$3,712	
06.8630	Limited Construction Services/ Construction Survey									$0	
06.8140	As-built Drawing Verification			4.0		24.0				$2,655	
06.8630	QA/QC									$0	
	TOTAL HOURS	0		20	0	88	0.00	0.00	0.00		
	RAW LABOR ($/HOUR)	$ 98.94		$ 61.74	$ 47.00	$ 27.50	$ 100.00	$ 52.00	$ 61.14		
	CONTRACT MULTIPLIER	2.825		2.825	2.825	2.825	2.825	2.825	2.825		
	LABOR RATE ($/HOUR)	$ 279.46		$ 230.92	$ 132.78	$ 77.69	$ 282.50	$ 146.90	$ 172.72		
	Sub-Total	$ -		$ 4,618.31	$ -	$ 6,835.44	$ -	$ -	$ -	$ 11,222	$ -
	Total Task 06					$11,221.75					
						$77,739.48					

ATTACHMENT C

SUBCONSULTANTS FEE PROPOSAL

MILLER LEGG

January 2, 2018

Via E-mail: werner.reinefeld@wsp.com

Werner J. Reinefeld, P.E.
Senior Project Manager
WSP (Parsons Brinckerhoff)
7650 Corporate Center Drive, Suite 300
Miami, FL 33126

Re: Miami Beach 19th Street Pump Station (the "Project")
Miller Legg Project No. 16-DB005
Additional Services – Additional Landscape Architecture Services

Dear Werner:

Thank you for the opportunity to submit the attached Additional Service Agreement for the above-referenced Project.

Please have an authorized Client signatory sign and initial the attached Agreement and Exhibit A pages where indicated and return for Miller Legg's execution. A fully executed copy will be emailed to you for your file.

Should you have any questions, please do not hesitate to contact me at **(786) 581-2513**, or **mjuncal@millerlegg.com**. Again, thank you for this opportunity, and I look forward to speaking with you soon.

Very truly yours,

C. Miguel Juncal, RLA
Landscape Architect

CMJ/brs
Attachments
V:\Projects 2016\16-DB005 Miami Beach 19th St Stormwater Pump Station\Documents\Contracts\AS 1 pump station_ Botanical garden\Agreement for Prof Svc 1-[illegible]17.docx

Document1

South Florida Office: 5747 N Andrews Way · Fort Lauderdale, Florida 33309-2364
(954) 436-7000 · Fax: (954) 493-6539
www.millerlegg.com

EOE / DFW

ADDITIONAL SERVICE AGREEMENT FOR PROFESSIONAL SERVICES

Client: WSP (Parsons Brinckerhoff) **Client Representative:** Werner Reinefeld, P.E.

Address: 7650 Corporate Center Drive, Ste 300, Miami, FL 33126 **Address:** Same

Phone/Fax: 305-514-3100 **Email:** werner.reinefeld@wsp.com

Date: 1/2/18 **Project No:** 16-DB005 **T:** **R:** **S:**

Project Name and Location: **NW 19th Street Pump Station (the "Project")**
Miami Beach, Miami, FL
Additional Services – Additional Landscape Architecture Services

Description of Services to be Provided: See Exhibit A

Fee: Lump Sum of $13,650.00 ***AND / OR*** Hourly not to exceed (NTE) fee of $ N/A
AND / OR Reimbursable Expenses Lump Sum of $N/A
AND / OR Reimbursable Expenses Initial Budget of $N/A

Retainer: (Payable upon execution of this Agreement) $N/A

Special Conditions: N/A

Notice to Owner: Is the Client the Owner of the Property? ☐ **Yes** ☒ **No**
If "No", Owner's name and address: City of Miami Beach

The undersigned agree [that these Additional Services shall be in compliance with the Agreement, General Conditions and Special Provisions dated December 20,2016. Any additional requested services will be addressed in a separate agreement.

Miller, Legg & Associates, Inc. d/b/a Miller Legg (Consultant)

Date:

Signature

Michael D. Kroll, RLA, FASLA
President

CMJ/brs
Attachment: Exhibit A

WSP (Parsons Brinckerhoff) (Client)

Date:

Signature

Printed Name/Title

EXHIBIT A – SCOPE OF SERVICES
NW 19th Street Pump Station (the "Project")
Additional Services – Additional Landscape Architecture Services

1.0 PROJECT DESCRIPTION

1.1 The Project is generally described as follows: **Consultant shall provide additional landscape architecture and hardscape design services related to the canal seawall. The project is located in Miami Beach, FL.**

2.0 BASIS OF SCOPE

2.1 General:

- The "Client" for this proposal shall be WSP. The "Consultant" is Miller Legg.
- Consultant's design scope is limited to landscape and hardscape improvements associated with the seawall.
- The Project will be designed, permitted, and constructed in one (1) phase. An additional service will be required if phasing plans are needed.
- The site is not subject to any requirements stemming from a Phase 1 or Phase 2 environmental site assessment (ESA).
- No book format specifications are included in the scope. All specifications and notes will be provided on the drawings. If book format specifications are required, they will be provided as an additional service.
- Record drawing preparation is not included in the scope. If required, this can be provided as an additional service.
- The design submittals shall be structured into the following phased submittals:
    - 60% Final Design Documents
    - 100% Final Construction Documents
- Maintenance of traffic design and permitting are not included in the scope.

2.2 Landscape Architecture:

- Additional tree removal and/or relocation plan shall be provided for only the project area. Additional Tree Permitting shall also be provided to the City of Miami Beach.
- Additional Landscape Plan shall be provided for only the project area.

- A hardscape plan shall be provided for only the Project area.
- An Irrigation plan shall be provided for only the Project area.

3.0 INFORMATION / SERVICES TO BE PROVIDED BY CLIENT

3.1 All required digital AutoCAD format survey, subsurface utility and as-built information prior to design commencement.

3.2 Client will provide all permit submittal and processing services, except for tree mitigation and FDEP SWPPP permitting to be done by Consultant.

3.3 Client will provide all construction observation services. Consultant shall only provide support with RFI and shop drawing review.

3.4 Filing and permit application fees, review fees, impact fees or any other associated assessments by other governments/agencies.

3.5 Copies of all relevant data, including correspondence, traffic reports, plans or information in Client's/Owner's possession which may be beneficial to the work effort performed by Consultant.

3.6 All civil engineering, traffic, parking or transportation study or design services.

3.7 Geotechnical services for soils determination of the paving, earthwork and 'k' value prior to civil and drainage design.

3.8 A letter from the property owner granting access to the site and giving approval for Consultant to perform the services listed below.

3.9 Any and/or as-built information on existing irrigation system or location of water source point of connection.

4.0 SCOPE OF BASIC SERVICES AND FEE

The scope of services to be provided by Consultant shall be as follows:

LANDSCAPE ARCHITECTURE TASKS

Task 1 **Additional Landscape Construction Documents** - Consultant shall prepare landscape construction documents based on the approved 100% CD hardscape plans. The documents shall include plans, details, quantities, notes and size specifications for landscape installation. The landscape design shall complement the site design, define boundaries and spaces, enhance desirable views, discourage unwanted foot traffic and screen undesirable views. One (1) iteration of revisions based on Client comments shall be included in this Task.

- Consultant shall make the following CD submittals and attend up to two (2) CD Review meetings as follows:
- 60% CD submittal/review.
- 100% CD submittal/review.
- Additional meeting attendance shall be provided as additional services.

Task 2 **Hardscape Construction Documents** - Consultant shall prepare hardscape construction documents based on the approved civil plans. These drawings shall include plans, details, notes and specifications for the proposed hardscape. One (1) iteration of revisions based on Client comments shall be included in this Task.

- Consultant shall make the following CD submittals and attend up to two (2) DE Review meetings as follows:
- 60% CD submittal/review.
- 100% CD submittal/review.
- Additional meeting attendance shall be provided as additional services.

Task 3 **Irrigation Construction Documents** - Consultant shall prepare irrigation construction documents based on the approved 100% CD landscape plans. The documents shall include plans, details, quantities, notes and size specifications for irrigation installation. One (1) iteration of revisions based on Client comments shall be included in this Task.

- Consultant shall make the following CD submittals and attend up to two (2) DE Review meetings as follows:
- 60% CD submittal/review.
- 100% CD submittal/review.
- Additional meeting attendance shall be provided as additional services.

FEE SUMMARY			
TASK NUMBER	TASK	LUMP SUM FEE	HOURLY NTE FEE
Task 1	Additional Landscape Plan	$4,750.00	–
Task 2	Hardscape Plan	$4,900.00	–
Task 3	Irrigation Plan	$4,000.00	–
	TOTAL FEE	**$13,650.00**	**$0.00**

V:\Projects\2016\16-DB005 Miami Beach 19th St Stormwater Pump Station\Documents\Contracts\AS Revised 1-2-18\Exhibit A 01-02-18.docx

ATTACHMENT D

DESIGN SCHEDULE

ATTACHMENT D

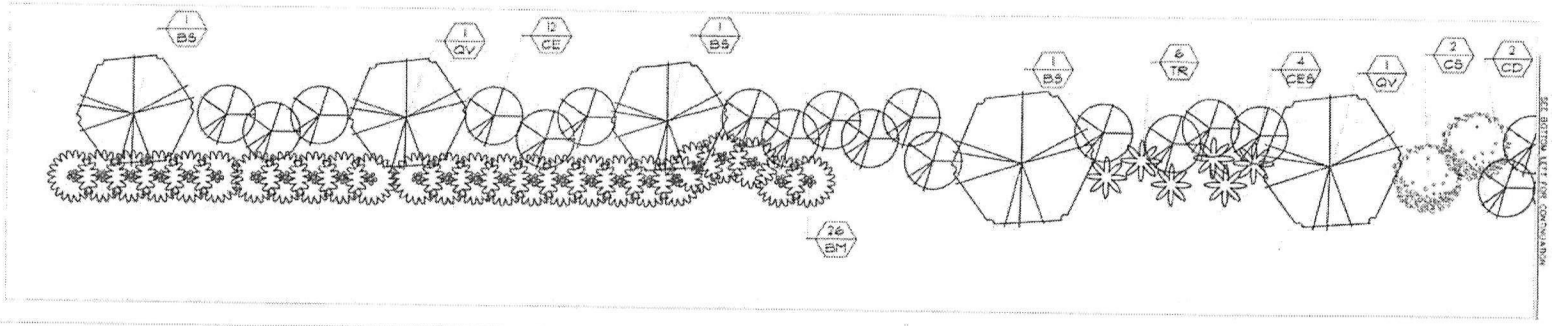
DESIGN SCHEDULE

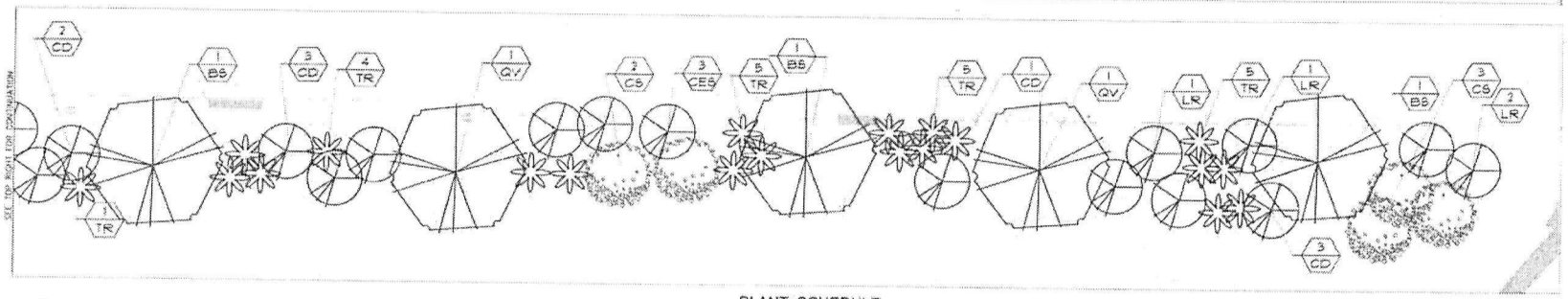
The design schedule for the Additional Services Project is provided below.

DELIVERABLE	COMPLETION DATE (*)
60% Design Construction Documents-Revised	NTP+20 Working Days
100% Design Construction Documents-Revised	NTP+40 Working Days
Limited Construction Services (**)	NTP +152 Working Days

* Subject to Client/Owner providing review 10 calendar days after 60% milestone submittal and 10 calendar days after 100% milestone submittal

** Limited Construction Services includes Preconstruction Meeting, RFI's, Site Visits (refer to Exhibit C),





N

SCALE: 1"=10'
(REDUCED SCALE: 1"=5')
0 10' 20'

PLANTING KEY

NEW CANOPY TREE

NEW SMALL TREE

NEW PALM TREE

NEW ACCENT TREE

EXISTING PALM TO REMAIN

PLANT SCHEDULE

TREES

CODE	QTY	BOTANICAL/COMMON NAME	SIZE	NATIVE	ZONE	NOTES	REMARKS
QV	4	Quercus virginiana/ Live Oak	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
BM	26	Bambusa malingensis/ Seabreeze Bamboo	B&B	12' oah	No	Low Matched heights	
BS	6	Bursera simaruba/ Gumbo Limbo	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
CS	7	Cordes sebestena/ Orange Geiger	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
CD	11	Coccoloba diversifolia/ Pidgeon Plum	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
CE	12	Conocarpus erectus/ Green Buttonwood	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
CES	7	Conocarpus erectus 'Sericus'/ Silver Buttonwood	B&B	12' oah, 2.5" cal	Yes	Low Multi-trunk	
LR	4	Laguncularia racemosa/ White Mangrove	B&B	12' oah, 2.5" cal	Yes	Low Matched heights	
TR	26	Thrinax radiata/ Thatch Palm	B&B	8' c.t. min	Yes	Low Matched heights	

NOTE:
ALL CATEGORY 1 TREES TO BE 12' HT. 2.5" CAL. MINIMUM.
ALL CATEGORY 4 PALMS TO HAVE MIN. 8' CLEAR TRUNK

REGISTERED LANDSCAPE ARCHITECT
CASTO MIGUEL JUNCAL
LA 6667184
STATE OF FLORIDA

100% SUBMITTAL

MILLER LEGG

NJC-MAN CONST. INC.
DEERFIELD BEACH, FLORIDA

WSP

MIAMI-BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

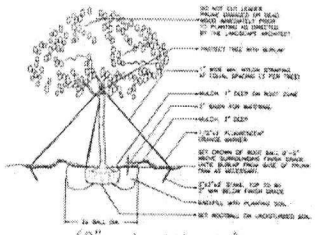
PROJECT: 19 ST MIAMI BEACH PUMP STATION
TITLE: LANDSCAPE PLAN

CITY MANAGER: JIMMY L. MORALES
DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, PH.D. P.E.

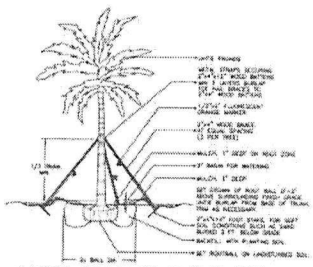
DESIGN ENGINEER:
DRAWN BY: CHJ
CHECKER: LMJ
SCALE: AS SHOWN

NO.	DATE	REVISION	APPD. BY
1			
2			
3			
4			
5			

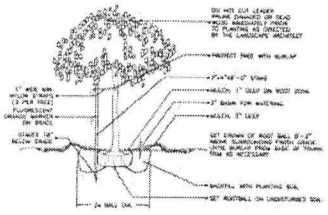
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Survey Reference:
Field Book: Page: Work Order:
Date: 11/10/2017 Sheet: 5 of 5 Drawing: L-2



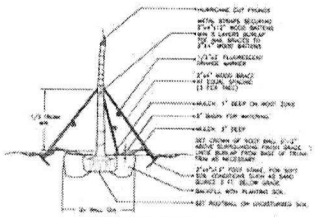
(2" cal. and over)
LARGE TREE PLANTING DETAIL



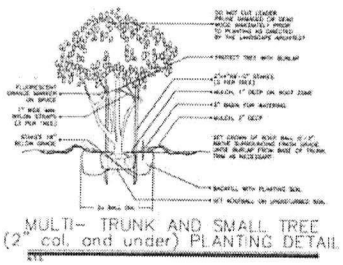
LARGE PALM PLANTING DETAIL



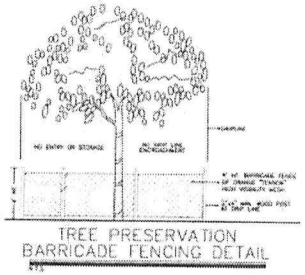
(2" cal. and under)
SMALL TREE PLANTING DETAIL



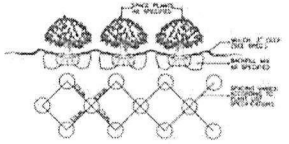
CIGARED SABAL
PALM PLANTING DETAIL



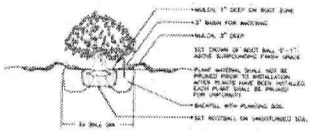
MULTI- TRUNK AND SMALL TREE
(2" cal. and under) PLANTING DETAIL



TREE PRESERVATION
BARRICADE FENCING DETAIL



SHRUB / GROUNDCOVER
SPACING / PLANTING DETAIL



SHRUB PLANTING DETAIL

GENERAL NOTES:

1. PLANT MATERIAL: All plant material shall be Florida #1 or better as established by "Grades and Standards for Nursery Plants" of the state of Florida, Department of Agriculture.

2. All trees, shrubs and groundcovers shall be of the sizes as specified in the Plant List.

3. Quantities listed on the the Plant List are for estimating purposes. Contractor shall verify all quantities. Mulch, topsoil, fertilizer, etc. shall be included in the unit cost of the plants.

4. Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plant list and plans, the plan takes precedence.

5. All planting beds and water basins for trees shall be trenched with a 3" minimum depth of shredded eucalyptus or Australian grade fir or pine bark.

6. The Planting Plan shall be installed in compliance with all governing codes and applicable local ordinances.

7. SOD: All areas not used for buildings, impervious use areas, walks or planting beds shall be grassed. Grassing shall extend to any adjoining street pavement edge and to the mean waterline of any abutting canal, lake or waterway.

8. PLANTING BEDS: All trees and shrubs shall be planted with a minimum of 12" topsoil around and beneath the rootball. Minimum topsoil shall be 6" for groundcover areas and 2" for sodded grass areas.

9. Planting soil shall be a weed-free mixture of 50% sand, 40% muck, and 10% Canadian peat. All plant material to receive planting soil as per details.

10. Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner.

11. Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.

12. Contractor shall be responsible for providing final grading of all associated planting areas.

13. After final grade area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.

14. All planting holes to be hand dug except where machine dug holes will not adversely affect or damage utilities or improvements (see note 9).

15. No plunging of any tree or palm will be accepted. All plants to be planted at the nursery grade or slightly higher.

16. Contractor shall stake & guy all trees and palms as one of planting as per the attachments detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period and removal & disposal of staking after establishment period.

17. Fertilizer for grass areas shall be NPK 10-6-4 @ 12 lbs/1000 s.f. or best fit soil analysis. Nitrogen 50% slow release form & fertilizer to include secondary micronutrients.

18. SUBSTITUTIONS AND CHANGES: All substitutions and changes shall be approved in writing prior to installation. Any discrepancies between plans, site and specifications shall be brought to the immediate attention of the Landscape Architect, the owner and governing municipality.

19. WATERING: All plant material shall be watered in at time of planting in accordance with standard nursery practices. In addition, Contractor will continue watering of plant material until substantial completion and as needed thereafter for a period of 2 months.

20. All new plant material shall be guaranteed for 1 year from time of final acceptance of project. Any plant material lost or in a healthy growing condition will be replaced by the Contractor at no additional cost to the Owner within 10 days of notification. For all replacement plant materials the warranty period shall be extended an additional 45 days beyond the original warranty period. All trees that lean or are blown over, caused by winds less than 75 mph, will be reset and braced by the Contractor at no additional cost to the Owner.

21. The successful bidder shall furnish to the Owner a unit price breakdown for all materials. The Owner may, at his discretion, add or delete from the materials utilizing the unit price breakdown submitted.

22. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.

23. Plant material will not be accepted when the ball of earth surrounding its roots has been shocked, broken or otherwise damaged.

24. Root prune all trees a minimum of 30 weeks prior to planting.

25. All landscaped areas will be irrigated by an underground, automatic, rain-free irrigation system providing 100% coverage and 100% spray overlap. The system shall be maintained in good working order and designed to minimize water on impervious surfaces and mid overspray walkways. A rain sensor device shall be installed to override the irrigation cycle of the system when adequate rainfall has occurred.

26. All plant material planted within the sight distance triangle areas (see plan) shall provide unobstructed cross-visibility at a horizontal level between 30 inches and 8 feet above adjacent street grade.

27. No canopy trees shall be planted within 12 feet of a light pole. No palm species shall be planted within 8 feet of a light pole.

28. Ground cover plantings shall provide not less than 90 percent coverage immediately upon planting and 100 percent coverage within 4 months after planting.

29. Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction a tree protection barricade consisting shall be constructed by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.

30. At all intersection areas, all trees and plants shall be maintained to allow for clear passage at an 8 foot clear zone.

31. All landscape material shall be setback a minimum of 10 from any Fire hydrant.

REGISTERED LANDSCAPE ARCHITECT
CASTO MIGUEL JUNCAL
LA 6667184
STATE OF FLORIDA

100% SUBMITTAL

MILLER LEGG

BIG-MAN CONST. INC.
DEERFIELD BEACH, FLORIDA

WSP

CITY OF MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

PROJECT: 19 ST MIAMI BEACH PUMP STATION

SHEET: LANDSCAPE NOTES & DETAILS

CITY MANAGER: JIMMY L. MORALES
DIRECTOR: ERIC T. CARPENTER, P.E.
CITY ENGINEER: BRUCE A. MOWRY, PH.D., P.E.

DESIGN ENGINEER: CHJ
DRAWN BY: CHJ
CHECKER: CHJ
SCALE: AS SHOWN

NO.	DATE	REVISION	APPD. BY

File Name:
Survey Reference:
Field Book: Page: Work Order:
Date: 11/12/2021 Sheet: 3 of 3 Drawing: L-3