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May 29, 2018

9496-01-R5

Ms. Susan Goldberg  
**City of Hollywood**  
**Hollywood Community Redevelopment Agency**  
1948 Harrison St.  
Hollywood, FL 33020

via email: [sgoldberg@hollywoodfl.org](mailto:sgoldberg@hollywoodfl.org)

**RE: CONTINUING CONSULTING SERVICES RELATIVE TO THE PROPOSED CITY OF HOLLYWOOD DUNE MASTER PLAN AND OTHER COASTAL/FLOOD CONSULTING SERVICES**

Dear Ms. Goldberg:

Pursuant to our discussions, this is to submit a consolidated and updated proposal for consulting services associated with the proposed Dune Master Plan (Plan) development, potential extension of the oceanfront Broadwalk from Georgia Street to Magnolia Terrace, and other coastal/flood consulting services for the City of Hollywood/Hollywood Beach Community Redevelopment Agency (CRA)(Client). The following work tasks summarize the additional scope of services to be provided by Moffatt & Nichol (M&N) to the Client:

### **DUNE MASTER PLAN SERVICES**

#### **Part 1 – Dune Master Plan Services**

M&N will coordinate with the Client to procure dune creation / management budgets using data from previous City projects, which will be used to provide estimates for the proposed dune management zones outlined within the Plan both for creation and maintenance of those areas. M&N will research and summarize beach financial information (tourism, retail, restaurant value to the region), property values, and turtle nesting data. M&N will provide photographic examples and narrative information illustrating the variety of natural and created/maintained dune conditions within other South Florida municipalities for reference. M&N will provide photographic examples of visual view corridors from a Broadwalk pedestrian and café seating perspective toward the beach over existing low dunes. This scope of work includes production of graphical renderings or proposed perspective drawings, as detailed in Part 3.

M&N will provide initial cost estimates and guidance relative to potential flooding / FEMA benefits to dune creation, expansion, and maintenance, including possible map change opportunities. M&N will initially evaluate a Beach Management Agreement with the State of Florida as a potential dune and broader beach management instrument.

## **Part 2 – Dune Master Plan Meetings**

M&N will coordinate with the Client to prepare for and participate in one (1) Dune Master Plan Task Force kick-off meeting, up to three (3) additional Dune Master Plan Task Force meetings and two (2) meetings with elected officials. Preparation may include minor research, printing of reference materials, and similar activities. Additional meetings or completion of action items generated out of the Task Force meetings, which are not included in this proposal, are meetings required by the client, and would be approved by client under client’s contingency.

## **Part 3 – Urban Dune Broadwalk View Rendering**

M&N will work with the City to interview and review proposals from up to three (3) graphical rendering companies for the City to confirm a scope and budget. Once a rendering company is chosen, M&N and oversee their production of renderings (up to 3 before/after views anticipated) of the pedestrian user’s experience when walking down the Broadwalk, at a proposed beach walk, south of the Broadwalk, seated at a café at the Broadwalk at street level, and when on the beach looking landward toward the Broadwalk and oceanfront businesses in the context of the existing and recommended Urban Dune condition. The renderings will show existing typical conditions where no dunes exist, as compared to the recommended design for construction of intermittent, low-elevation dunes and/or urban dunes along the Broadwalk in the Central Business District and at the local proposed beach walk. Renderings will be provided in electronic format for inclusion into the Dune Master Plan and other media. Consultant will coordinate with rendering company and CRA and provide oversight for this task.

## **Part 4 – Dune Master Plan Revisions**

Based on feedback received during the Dune Master Plan Meetings, above, M&N will update the Preliminary Dune Management Master Plan. Depending on the direction of City/CRA staff and/or the CRA Board, it is anticipated that information will be added and/or clarified regarding objectives, action items, and/or phasing for action item implementation. Additionally, M&N will review potential additional public grant or other funding sources, including further consultation with Broward County regarding implementation of the City’s preferred dune creation/restoration designs as part of the next Segment III beach renourishment project event. This scope of work does not include geological analysis, detailed surveying/mapping of existing dune topography, vegetation limits, or invasive exotic vegetation areas. Phases/action items are anticipated to reference phase-specific conceptual schedules, capital and maintenance cost estimates (including soft and hard costs), potential funding sources and other organizational/administrative information. The CRA will provide surveys to the consultant which are not readily available through government agencies.



## **GENERAL FEMA-CCCL CONSULTING SERVICES**

### **Part 5 – General FEMA-CCCL Consulting Services**

M&N will assist the Client relative to developing strategies for FEMA/FBC/City flood code compliance, as well as FDEP CCCL Permit code compliance, for proposed new structures and/or substantially renovated structures within the Beach CRA. M&N will consult with FEMA, the FDEP and/or other agencies to discuss code compliance and/or insurance ratings, which may include reference to the Broadwalk Historic District. M&N may consult with the City regarding Historic District registration at the State and/or Federal levels, contributing structure definitions, etc. M&N may consult with the City regarding upcoming revisions to the Broward County Flood Insurance Rate Maps (FIRM) and potential assessment of the feasibility of FEMA Letter of Map Revision (LOMR) based on dune construction to change the flood zone designation for the Broadwalk Historic District or other oceanfront areas from a VE zone to AE zone. M&N will attend up to three (3) meetings and/or conference calls with City/CRA staff/administration, as well as special legal counsel at the CRA/City's request, to discuss strategy and options for compliance of various Broadwalk District redevelopment scenarios with applicable codes and/or potential flood insurance rate implications. Services will be provided on an hourly basis, pursuant to the approved Rate Sheet, up to the authorized budget limit; an addendum scope/budget will be provided for Client approval if additional consulting services are requested.

## **BROADWALK EXTENSION DESIGN AND PERMITTING STUDY**

### **Part 6 – Broadwalk Extension Data Collection**

The Client will provide M&N with available topographic survey data for the Broadwalk easement area and south beach walk area and documentation of the City's 30-foot easement over this area (in electronic survey format, if possible), as well as topographic data for the beach seaward of the Broadwalk easement. M&N will also request the most recent Florida Department of Environmental Protection (FDEP) and Broward County beach survey data for the Project area. The Client will be advised if additional survey data is required. M&N will create a base file with a recent aerial photograph of the Project area and most recent available survey data that illustrates the dune and sandy beach limits, City easement (if provided in electronic file format), and Erosion Control Line (ECL) for the Project area.

### **Part 7 – Broadwalk Extension Design Alternatives**

M&N will provide conceptual design alternatives in presentation (PowerPoint) format to include:

- i. A "Phase 1" extension of the Broadwalk within the 30'-0" Broadwalk Right of Way (ROW) that exists from Georgia to Magnolia Terrace;



- ii. Shifting the 30'-0" Broadwalk from within the ROW to 30'-0" seaward so that the Broadwalk is on the sandy beach (without proposed dunes on the seaward side); and
- iii. Design of the Broadwalk on the beach with dune plantings on both sides, with an undulating vertical profile to provide intermittent views of the beach.

For the design alternatives, M&N will provide a plan view layout of the Broadwalk and a typical west-east section. For each design option noted above, a preliminary opinion of construction cost will be developed for a pavers-on-sand alternative, as well as anticipated project schedule (design, permitting, construction). Notes regarding permitting agency requirements and associated Project approach considerations will be provided based on the consultation discussions to be held pursuant to Part 8 services, below.

The fee limit provided below includes approximately 63 hours (will vary depending on staff rate; see approved Rate Sheet) of consulting services; if additional meetings/conference calls are required, these services will be provided under an addendum scope of work.

#### **Part 8 – Broadwalk Extension Permitting Consultations**

M&N will review the "Phase 1" conceptual design alternative ideas developed under Part 7 services with the FDEP relative to compliance with Coastal Construction Control Line (CCCL) permitting regulations and policies. The use of pavers-on-sand vs. alternative materials/design approach (such as elevated wood boardwalk) will be discussed, and any agency preference or objection will be documented. The City-preferred east-west location of the Broadwalk extension will be discussed with the FDEP, as well as potential alternatives with consideration given to minimization/mitigation of dune impacts. M&N will also preliminarily discuss with the FDEP the potential design approach for a "Phase 2" Broadwalk from Magnolia Terrace to the south City limits; no conceptual designs will be produced for the "Phase 2" area, but aerial photography of the "Phase 2" Broadwalk area will be referenced for this discussion. If recommended by the FDEP, M&N will additionally consult with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service regarding potential marine turtle nesting habitat impacts. FDEP feedback, including potential opportunities and challenges, will be summarized in meeting minutes.

The fee limit provided below includes approximately 42 hours (will vary depending on staff rate; see approved Rate Sheet) of consulting services. This scope of work includes one (1) consultation meeting in Tallahassee with FDEP and/or FWC staff. If additional meetings/conference calls are required, these services will be provided under an addendum scope of work.

#### **Part 9 – Broadwalk Extension Initial Meetings**

M&N will prepare for and participate in one meeting with City staff, participation in two meetings with elected officials, and one meeting with the community regarding the potential Broadwalk Extension design alternatives and permitting feasibility. The fee limit provided below includes approximately 24 hours (will vary depending on staff rate; see approved Rate Sheet) of consulting



services; if additional meetings/conference calls are required, these services will be provided under an addendum scope of work.

## **CONTINGENCY**

### **PART 10 – CLIENT-REQUESTED CONTINGENCY**

At the Client’s request/authorization, up to approximately 29 hours (will vary depending on staff rate; see Rate Sheet) of additional discussions or meetings with the Client or agencies, or additional services related to coastal/flood consulting items may be provided under this task on an hourly basis.

### **PART 11 - REIMBURSABLES**

Reimbursables include before and after renderings by a third party sub-consultant with M&N oversight as provided in Part 3, expenses associated with a consultation meeting in Tallahassee as described in Part 8, and other reimbursable expenses approved by the Client. Reimbursable and subconsultant expenses will be invoiced at cost.

### **GENERAL**

While we make every effort to keep our fees within estimates quoted, additional services may be required due to circumstances beyond our immediate control, including but not limited to, scope modifications, rule or procedural changes, interpretive discussions, and legal actions. Fee and expense budgets are summarized in Table 1, below. M&N will invoice the Client each month on an hourly basis pursuant to the attached Rate Sheet, not to exceed the authorized budgets without Client authorization. If you wish for us to provide these services, please provide an approved Work Order/Consultants Authorization to Proceed.

We look forward to continuing to work with the CRA on these important public initiatives. Should have any questions regarding this proposal, please do not hesitate to contact me at (305) 979-4232 (mobile) or [cbrush@moffattnichol.com](mailto:cbrush@moffattnichol.com).

Sincerely,  
**Moffatt & Nichol, Inc.**



Christy J. Brush  
Environmental Regional Manager

CJB:LMS

Enclosures



**Table 1**  
**Hollywood Dune Master Plan, Broadwalk and Other Coastal-Flood Consulting Services**  
**Consulting Fees and Expenses**

Phase	Title	Fee
<b>Dune Master Plan</b>		
1	Dune Master Plan Services	\$9,000.00
2	Dune Master Plan Meetings	\$8,000.00
3	Broadwalk Beach View Video/Still Rendering Oversight	\$3,000.00
4	Dune Master Plan Revisions	\$10,200.00
<b>Subtotal:</b>		<b>\$30,200.00</b>
<b>FEMA-CCCL Consulting Services</b>		
5	General FEMA-CCCL Consulting Services	\$8,600.00
<b>Subtotal:</b>		<b>\$8,600.00</b>
<b>Broadwalk Extension Data Collection</b>		
6	Broadwalk Extension Data Collection	\$2,500.00
7	Broadwalk Extension Design Alternatives	\$8,500.00
8	Broadwalk Extension Permitting Consultations	\$8,000.00
9	Broadwalk Extension Initial Meetings	\$5,400.00
<b>Subtotal:</b>		<b>\$24,400.00</b>
<b>Contingency</b>		
10	Client-requested Contingency	\$5,000.00
11	Reimbursables	
	a. Travel expenses to Tallahassee	\$1,500.00
	b. Subconsultant Renderings	\$10,000.00
	c. Other Reimbursable Expenses	\$900.00
<b>Subtotal:</b>		<b>\$17,400.00</b>
<b>TOTAL:</b>		<b>\$80,600.00</b>



## 2018 Southeast U.S. Rate Sheet

General Client Classification	Rate (USD)
Principal Engineer	\$ 230
Environmental Manager	\$ 230
Supervisory Engineer	\$ 205
Senior Engineer	\$ 175
Environmental Senior PM	\$ 175
Engineer III	\$ 155
Environmental PM	\$ 155
Engineer II	\$ 125
Environmental Scientist	\$ 125
Engineer I	\$ 110
Staff Engineer II	\$ 95
Staff Engineer I	\$ 85
Senior Technician	\$ 145
Designer	\$ 110
CADD II	\$ 95
CADD I	\$ 85
CADD Apprentice	\$ 50
Word Processor	\$ 65
Admin	\$ 60
General Clerical	\$ 55

