



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

CCS7431

May 16, 2012

Burgess Hanson, City Manager  
City of Deerfield Beach  
150 NE Second Avenue  
Deerfield Beach, FL 33441-3598

Dear Mr. Hanson:

**Subject: Project # 100510 – Hillsboro Canal Bank Stabilization**

Thank you for your letter dated April 27, 2012. The South Florida Water Management District's (District) Executive Director Melissa Meeker asked me to respond to your questions regarding the Hillsboro Canal Bank Stabilization Project. The purpose of the project is to stabilize the banks of the Hillsboro Canal in order to ensure flood continued control for the surrounding area in Palm Beach and Broward counties.

1. Please provide the anticipated dredge methodology in detail:

a. What type of dredge will be used and where/how will it access the canal?

*In an effort to ensure the best price and value for the tax payers of South Florida, the means and methods for the dredging will be left to the contractor. However, due to the right of way constraints, it is anticipated that the contractor will perform the work utilizing mechanical dredging from a barge located in the canal. Construction access will be from Powerline Road and Military Trail utilizing the District's right of way.*

b. How will the dredge spoil be handled?

*The means and methods for the dredging will be determined by the contractor. Turbidity curtains will be installed within the canal to isolate and limit high turbidity levels to the active work area and comply with applicable State water quality standards.*

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- c. Will spoil materials be placed on land to dry-out prior to hauling?

*The current design identifies suggested locations for temporary placing of materials on the District's right of way. Ultimately, the means and methods for dredging and stockpiling material will be up to the discretion of the contractor. Construction documents will require that the contractor follow Best Management Practices including using silt fences and other means to detain sediment within the work area.*

- d. If so, for how long?

*Stockpiling may occur at any time during the construction timeline for a period of one to three months. The length of time dredged material is stockpiled is dependent upon the drying rate of the material and the discretion of the contractor. The contractor will need to dry the dredged material before transporting to off-site disposal areas to prevent potential spillage or sediment deposition along the canal right of way and public roads.*

- e. Will hauler trucks be water-tight?

*The means of hauling the material will be decided by the contractor. Again, the construction documents will require that the contractor follow Best Management Practices to prevent sediment discharge during transport along the canal right of way and public roads. The dredged material's moisture content will be reduced per the District's specifications, in order to enable safe transport of the material. Dredged material will be transported by trucks, as per Florida Department of Transportation (FDOT) standards to avoid spillage on roadways.*

- f. Where will the dredging occur?

*Currently, the plan is to dredge between the Powerline Road Bridge and the G-56 Structure.*

- g. What is the anticipated cubic yardage of material to be dredged?

*Currently, it is estimated that the volume of material to be dredged will be approximately 37,000 cubic yards.*

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- h. What are the anticipated operational hours of the dredging activities and how long is it anticipated to occur?

*Anticipated dredging operational hours will be restricted to normal business hours. Work activities or equipment maintenance activities outside of normal business hours will be subject to work hours and local noise ordinance requirements.*

- i. What areas will be utilized for staging areas for the project?

*The contractor will have the discretion to utilize any area within the District's right of way for equipment or material staging.*

- j. Will multiple staging locations be utilized based on the phase?

*The contractor will have the discretion to utilize any area within the District's right of way for equipment or material staging. There may be multiple staging areas based on needs and scheduling by the contractor.*

- k. What will be done to mitigate any smells coming from the dredging?

*Typically, dredged material from fresh water canals in South Florida such as the Hillsboro have low organic content and minimal odor.*

2. Has the project been broken into phases based on geographical location and time required to complete? If so, please describe.

*The project has been broken into phases to afford the District future flexibility in procurement services regarding the physical construction of the project; this will enable the District to make use of project funds in a fiscally prudent manner.*

3. What is the entire projected timeline, from start to finish, for the project/phases?

*The construction timeframe for the entire 7.6-mile stretch from the G-56 structure to 3 miles west of US441/SR7 is June 2013 through March 2015, approximately 2 years, depending on available funding. It is anticipated that the contractor will spend approximately two to four months at a single location along the canal and then move to another area of the project.*

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4. Will the trees, vegetation, fences, docks, irrigation pipes, drainage, golf tees, etc. that the District expects to be removed / modified be shown on the plans? If so, when are these decisions anticipated to be made?

*The preliminary plans currently show the encroachments that are located within the District's right of way which will require removal due to conflicts with the proposed canal stabilization features. These encroachments are being refined as the design process continues based on outreach with adjacent property owners and the specific right of way permit conditions.*

5. What is the District's policy on mitigating the above impacts? Please specify as it pertains to each of the items in item 4.

*The District has completed an inventory of all encroachments including trees (species), vegetation, fences, docks, irrigation pipes, drainage pipes and golf course features in the project area. Each encroachment will be treated according to the specific conditions in the permit issued by the District to the property owner. Regarding drainage and irrigation pipes, the District will provide pipe sleeves from the canal to a point near the property line, at the District's expense, so that owners can easily connect pipes without having to cut into the repaired banks.*

6. With the planned improvements, how are you measuring and addressing the environmental impacts such as loss of tree canopy and wildlife habitat?

*The District has completed an inventory of all encroachments including wetland tree species in the project area. Fences and docks within the District's construction limits will need to be relocated. Native Florida trees (e.g., pond apples) will be mitigated based on FDEP rules. Our experience is that wildlife will re-establish soon after the project is completed.*

7. When any of the above in item 4 are removed or modified, will the homeowner/HOA be able to have it re-permitted and reinstalled? And at whose expense?

*This will be on a case-by-case basis and depending on the conditions of the permit issued to the owner. The homeowner can re-apply for a permit to the District; however, the permit fees will be waived as a courtesy. Specifically, vegetation and trees will not be allowed on repaired canal banks or on the District's maintenance easement. The District will provide property owners with guidelines for reinstalling docks once work in their area has concluded.*

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8. What efforts are being considered, prior to the project commencing, to deal with snakes, rats, iguanas, etc., living along the canal? And what will be done during the project to prevent them from migrating to adjacent properties?

*The contractor will be required to utilize construction fences, silt barriers, and other appropriate containment measures to limit the movement of snakes, iguanas, and rodents to residential areas.*

9. What are HOAs/homeowners that utilize irrigation from the canal to do during the project duration?

*Temporary connection facilities will be provided from the canal to the adjacent property owner's property line during the period when the existing irrigation services are disrupted by the canal construction activities. The project plans call for providing each property owner a sleeve pipe from the property line to the canal bank so the property owner can install a new permanent irrigation line into the canal.*

10. What is the total number of homes that will have backyards impacted by this project and will these be marked specifically on the plans?

*With specific reference to Deerfield Beach, only three homes with docks and one home with a fence extending into the District's right of way will be impacted. These encroachments have been identified on the preliminary design drawings and the owners have been contacted. The dock at the City of Deerfield Beach's Park will not be impacted as the banks are stable with no erosion above or below the water surface.*

11. Please provide a list of all HOA's that you have contacted regarding the project.

*The following Homeowner Associations were contacted:*

- *The Hollows*
- *Verona*
- *Starlight Cove*
- *West Deerfield Community Alliance (includes Deer Creek, Villa Portofino, Starlight Cove, Deer Isle and Riverglen)*
- *Villa D'este*
- *Villa Portofino*
- *Hammocks at Riverglen*
- *Deer Isle*
- *Deer Creek Improvement Association*

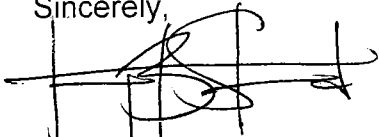
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Again, thank you for your interest and concerns regarding this project. If you have additional questions or concerns, please feel free to contact Mr. Jeff Kivett, Bureau Chief – Engineering and Construction at (561) 682-2680.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tommy B. Strowd', written over a horizontal line.

Tommy B. Strowd, P.E.

Division Director

Operations, Maintenance and Construction Division

South Florida Water Management District

TBS/aa

c: Melissa Meeker, SFWMD