City of Naples

Joint City/County Workshop Meeting
City Council Minutes

Workshop Meeting 12/09/87

City Council Chambers 735 Eighth Street South Naples, Florida 33940

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CITY COUNCIL MINUTES Workshop Minutes

Time 9:00 a.m.

Date 12/09/87

Kim Anderson-McDonald William E. Barnett William F. Bledsoe Alden R. Crawford, Jr. John T. Graver Lyle S. Richardson, Councilmen Arhold Lee Glass, Chairman, Collier County Commission Anne Goodnight (absent) Max A. Masse, Jr. John A. Pistor (absent) Burt L. Saunders, Commissioners Also Present: Franklin C. Jones, City Manager David W. Rynders, City Attorney Mark W. Wiltsis, Assistant City Manager Christopher L. Holley, Com. Services Dir. James L. Chaffee, Utilities Director Frank W. Hanley, Finance Director Jon C. Staiger, Natural Resources Mgr. Gerald L. Gronvold, City Engineer Stewart K. Unangst, Purchasing Agent Jodie M. D'Driscoll, Deputy Clerk George Henderson, Sergeant-Att-Arms Harry Huber, Asst. Public Works Director for Collier County Kris Dane, Coastal Engineering Ken Humiston, Coastal Engineering See Supplemental Attendance List - Attachment #1. *** *** *** PRESENTATION OF STUDY AND REPORT TO BEACH RENDURISHMENT AD HOC COMMITTEE BY MICHAEL STEPHEN, COASTAL ENSINEERING CONSULTANTS, INC. Mayor Putzell called the meeting to order and welcomed those members of the County Commission present. Mr. Ken Humiston, Coastal Engineering, advised that due to a death in the family, Mr. Michael Stephen would not be in attendance. He then explained that his Committee had evaluated the beaches, and erosion problems thereon, by reviewing previous historical data studies of beach profiles. Their research also included the affect of coastal structures and sand deposits upon the coastine. The Committee found, he said, that there was a great need for renourishment of the Collier County beaches, the two priority areas being Vanderbilt Beach and Park Shore/Naples. Mr. Humiston then presented the		Education T. Production To				VO	TE	
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City Council Minutes Date 12/09/87	COUNCIL MEMBERS	O T I O N	C 0 N	YES	N
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Commissioner Saunders asked the cost of pumping sand from two miles off the coast and Mr. Humiston estimated \$3.00 per cubic yard, based on the borrow area location. In response to Councilwoman Anderson-McDonald, Mr. Humiston advised that additional equipment would be needed to pump sand farther than two miles from shore, thereby increasing the cost per cubic yard. If the sand					
were imported by land from Bonita Springs, he said, it could cost as much as \$10.00 per cubic yard.					
Commissioner Hasse referred to the Committee's study and asked if they had checked areas between the borings which were 3,000 feet apart. Mr. Humiston advised that any sand deposits found between the 3,000 foot points would not be of significant size to help the renourishment effort.					
Mr. John Reynolds, Marco Island resident, referred to the largest sand deposit found by the Committee and asked why the entire deposit could not be used. Mr. Humiston, however, explained that because of a limestone rock layer in that deposit, only the top few feet were usable.					
Mr. Humiston then presented a slide show delineating various impacts coastal structures and heavy storms have had upon area beaches. In aerial photographs, he pointed out the natural transportation and settling of sand by wave action. Several slides showing the affects that seawalls have on wave reflection and increased erosion were also presented. Many groins and other coastal structures, he said, with the exception of the Pier, help build up sand to the north of the structure; however, the beach to the south of such structures is virtually starved.					
Mr. John Reynolds referred to the natural sand bar created off the coast of Tigertail Beach and said that he did not believe it should be used as a corrow site. Mr. Humiston assured him that the Committee had no intention of using that area because it found that the sand bar actually renourishes that particular Marco Island beach. Instead, he said, there is a small shoal area due west of Coconut Island which is being considered.					
Mayor Putzell asked about proposed borrow areas in various passes to which Mr. Humiston stated that the Committee was, only interested in environmentally attractive areas and ones which would not change the natural flow of the area. He also pointed out that the borrow areas must be approved by the Corps of Engineers before the permit process could begin.					
In response to Mayor Putzell, Mr. Humiston indicated that State funding for this project could be as high as 75%. Preliminary estimates for the two projects, he said, are \$3.5-million for Vanderbilt, \$11-million for Park Shore/Naples. Mr. Crawford asked how much money the City/County would have to put in trust before such a project would be considered by the State; Mr. Humiston said that no set amount has as yet been established by the State. In response to Councilman Richardson, Mr. Humiston advised that he did not have with him the cost estimates for the project's preliminary design and implementation.					

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CITY OF NAPLES, FLORIDA Date 12/09/87 0 B City Council Minutes T I E 0 COUNCIL 0 N E N S 0 D MEMBERS N Commissioner Hasse asked what the life expectancy of such a renourishment effort would be and Humiston estimated 75 years; however, if a major hurricane severely eroded the beaches, he said he would then recommend another renourishment effort. Mr. Bledsoe asked how much sand could be pumped from the various deposits. Mr. Humiston responded that there are hundreds of yards of sand in the gulf which could be used for this project. In response to Commission Chairman Glass, Humiston noted that currently there is a renourishment effort in Pinellas County and engineers there are using a new technology wherein off-shore structures are placed in the water to weaken wave action thereby reducing erosion. Mr. Hasse asked if such structures could be placed in lieu of renourishing the beaches to build up the coastline; Mr. Humiston explained that such structures only maintain the sand which is already on the beach and are not for renourishment purposes. Mayor Putzell referred to the slide presentation and the affect of coastal structures on erosion of such structures as timber groins. He asked if it would help the project if those structures were removed. Mr. Humiston, however, pointed out that because the renourishment project would virtually bury those structures, removal would not then be necessary. In response to Mr. Graver, Mr. Humiston, however, explained that State funding for these projects was not currently available, but if the City and County authorized the detailing of sand information and preliminary design, the State permit approval process could begin taking approximately 12 months to complete. Mayor Putzell asked how much it could cost before the State would allocate funds for the project. Mr. Humiston, however, said that his Committee had not yet compiled those costs and noted the cost schedule from the Executive Summary (a copy of which can be reviewed from the meeting packet in the City Clerk's office). Mr. Humiston further pointed out that this presentation was only the Committee's preliminary findings and, further, final report would be ready for review by the Council and Commission in the very near future. Mr. Arthur Cooper, Marco Island resident, said that he believed that off-shore sand bars were depriving the beaches of much needed renourishment, but Mr. Humiston pointed out that natural sand bars tend to break apart and actually in time renourish the beaches. Mr. George Keller, Collier County resident, asked if one major storm could completely destroy the renourishment effort. Mr. Humiston said that he did not believe so. In response to another member of the audience, Mr. Humiston advised that it was the Committee's objective to save as many coconut palm trees on the beaches as possible and, perhaps, replace some which have been lost. Referring to a renourishment project in Miami which is approximately 10 years old, Natural Resources Manager Staiger said that this was the first year

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