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Management and Storage of Surface Waters Technical Staff Report

Bessent, Hammack, and Ruckman, Inc.

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Recommended Citation

Bessent, Hammack, and Ruckman, Inc., "Management and Storage of Surface Waters Technical Staff Report" (1990). *Sawmill Slough History*. 27.

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MANAGEMENT AND STORAGE OF SURFACE WATERS TECHNICAL STAFF REPORT
3/29/1990

APPLICANT: UNIV. OF N. FLORIDA
4567 ST. JOHNS BLUFF RD
JACKSONVILLE, FL 32216

AGENT: BESSENT, HAMMACK
& RUCKMAN, INC.
1900 CORPORATE SQ. BLVD.
JACKSONVILLE, FL 32216

COUNTY: Duval PROJECT NAME: WIDENING OF UNF DRIVE
SECTION(S): 05 TOWNSHIP(S): 03S RANGE(S): 28E
ACRES OWNED: 1000 PROJECT ACREAGE: 20.000

AUTHORITY: 40C-4.041(2)(b)2, F.A.C.

GENERAL DESCRIPTION OF APPLICATION NO. 4-031-0359AG: THIS APPLICATION IS FOR A SURFACE WATER MANAGEMENT SYSTEM TO SERVE THE WIDENING OF THE ACCESS ROAD TO THE UNIVERSITY OF NORTH FLORIDA IN JACKSONVILLE.

RECEIVING WATER BODY(IES): SAWMILL SLOUGH, BOGGY BRANCH (CLASS III)

EXISTING LAND USE: ROAD RIGHT-OF-WAY

OPERATION AND MAINTENANCE ENTITY: OWNER

STAFF COMMENTS:

THE UNIVERSITY OF NORTH FLORIDA IS LOCATED EAST OF ST. JOHNS BLUFF ROAD BETWEEN J. TURNER BUTLER BOULEVARD AND BEACH BOULEVARD IN JACKSONVILLE. ACCESS TO THE UNIVERSITY IS PRESENTLY PROVIDED BY A TWO LANE ROAD, UNF DRIVE, WHICH BEGINS AT ST. JOHNS BLUFF ROAD AND ENDS AT THE SOUTHEAST CORNER OF THE EXISTING UNIVERSITY COMPLEX (SEE EXHIBIT 1). THIS APPLICATION IS FOR WIDENING THE EXISTING UNF DRIVE. APPROXIMATELY 1.9 MILES OF UNF DRIVE WILL BE WIDENED TO THREE LANES (STATIONS 61+00 - 113+78) AND 0.6 MILES TO FOUR LANES (STATIONS 34+00 - 61+00).

STAFF IS PRESENTLY REVIEWING THREE OTHER PERMIT APPLICATIONS FOR WORK AT THE UNIVERSITY. A CONCEPTUAL PERMIT APPLICATION (#4-031-0348AGC) FOR APPROVAL OF A MASTER SURFACE WATER MANAGEMENT SYSTEM TO SERVE THE EXISTING UNIVERSITY COMPLEX AND FUTURE CONSTRUCTION WAS

RECEIVED ON OCTOBER 18, 1989. A MSSW CONSTRUCTION PERMIT APPLICATION (4-031-0359AGM) AND A DREDGE AND FILL APPLICATION (12-031-0007AG) ARE ALSO UNDER REVIEW FOR CONSTRUCTION OF THE PROPOSED LOOP ROAD AND EASTERN CONNECTOR.

UNF DRIVE IS SEPARATED INTO SIX DRAINAGE BASINS. THE SURFACE WATER MANAGEMENT SYSTEM FOR DRAINAGE BASINS 1 AND 2 WILL CONSIST OF CURB AND GUTTER STORMSEWERS AND SAND FILTER STRUCTURES FOR STORMWATER TREATMENT (SEE CONDITION #4). DRAINAGE AREAS 3-6 WILL BE SERVED BY EITHER CURB AND GUTTER CONVEYANCE OR SWALE CONVEYANCE TO WET DETENTION PONDS. THE APPLICANT HAS DEMONSTRATED COMPLIANCE WITH DISTRICT PEAK DISCHARGE CRITERIA AND CHAPTER 40C-42, F.A.C., STORMWATER TREATMENT CRITERIA.

THE PROPOSED ROAD WORK WILL BE CONFINED TO THE EXISTING UPLAND BOUNDARIES OF UNF DRIVE. THE HIGHWAY CROSSES SAWMILL SLOUGH AND BUCKHEAD BRANCH AS IT EXTENDS EASTWARD FROM ST. JOHNS BLUFF ROAD TO THE UNIVERISTY, BUT NO ALTERATIONS TO THE EXISTING CULVERT CROSSINGS ARE PROPOSED. IT IS ALSO ADJOINED BY VARIOUS WETLANDS (CYPRESS SWAMP, BAY RUNS, HARDWOOD FLOODPLAINS AND BAY-HARDWOOD SWAMP), ALL OF WHICH ARE PART OF OR CONNECTED TO SAWMILL SLOUGH, BUCKHEAD BRANCH OR BOGGY BRANCH. THESE FORESTED WETLANDS WILL NOT BE IMPACTED BY THE PROPOSED ROAD WORK OR CONSTRUCTION OF THE TREATMENT PONDS AND SWALES THAT WILL DISCHARGE TO THEM. THE ONLY IMPACTS TO WETLANDS WILL BE LIMITED TO 0.13 ACRES OF ROADSIDE DITCHES THAT ARE DIRECTLY CONNECTED TO WATERS OF THE STATE. EXCAVATION AND FILLING FOR CONSTRUCTION OF THE STORMWATER POND AND CONVEYANCE STRUCTURES WILL ONLY AFFECT UPLAND CUT PORTIONS OF DITCHES LESS THAN 35 SQUARE FEET IN CROSS SECTION AT THE POINT OF CONNECTION. THUS, THAT WORK IS EXEMPT FROM THE PERMIT REQUIREMENTS OF CHAPTER 17-312, F.A.C.

THE WETLAND LOSS WILL NOT CAUSE ADVERSE IMPACTS TO FISH OR WILDLIFE AND SHOULD IMPROVE WATER QUALITY AS ROAD RUNOFF WILL NO LONGER DISCHARGE DIRECTLY TO WATERS OF THE STATE. SILT SCREENS AND HAY BALES WILL BE PLACED TO PREVENT THE DISCHARGE OF TURBID WATERS TO ADJOINING WETLAND AREAS.

| | |
|---------------------------|-------|
| TOTAL WETLANDS INVOLVED: | 0.000 |
| TOTAL WETLANDS PRESERVED: | 0.000 |

TOTAL WETLANDS DISTURBED: 0.000
TOTAL WETLANDS LOST: 0.130
TOTAL WETLANDS RESTORED/CREATED: 0.000
TOTAL WETLANDS ENHANCED: 0.000

RECOMMENDATION: APPROVAL

CONDITIONS FOR APPLICATION NUMBER 4-031-0359AG

GENERAL (SEE CONDITION SHEET): 2 - 8

SPECIAL (SEE CONDITION SHEET): 1, 5-7, 10-12, 29 & 30

OTHER CONDITIONS:

1. The proposed surface water management system must be constructed as per plans received by the District on January 29, 1990, as amended by plans received by the District on February 27, 1990, and by Sheets 10, 12, 13, 19, 25, 26 & 33-35, received on March 14, 1990.
2. This permit does not authorize any construction within waters of the state as defined by Chapter 17-4.022, F.A.C. It is the permittee's responsibility to apply for and obtain all required permits prior to construction.
3. Prior to initiating any construction, including clearing and grading, permittee must clearly delineate the wetland limit lines as shown on the approved plans by establishing a line of continuous flagging. The permittee must notify the District upon completion of wetland delineation and notify the contractor(s) that any work not specifically authorized by this permit within the wetlands is a violation of this permit.
4. The University of North Florida must inspect the sand filter structures after all rainfall events greater than one-quarter inch for the first two years after installation. The University must submit, along with the yearly P.E. inspection

report, a maintenance report for the sand filter structures. The maintenance report must include dates of inspection and maintenance actions taken to ensure that the filter structures operate as designed. After two years, the District will assess whether future monitoring of the structures after rainfall events will be required .

BROWN/GREEN