STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT
TECHNICAL STAFF REPORT
July 25, 2008
APPLICATION #: 40-069-114354-1

DATE RECEIVED:	DATE COMPLETED:	21ST DAY:	28TH DAY:
December 06, 2007	July 17, 2008	August 7, 2008	August 14, 2008

Applicant: Lake County Dept of Public Works
C/O James A Stivender Jr PE
437 Ardice Avenue
Eustis, FL
32726
(352) 483-9005

Consultant: HNTB Corporation
C/O Karen Van den Avont PE
300 Primera Blvd Ste 200
Lake Mary, FL
32746
(407) 805-0355

Project Name: Hartwood Marsh Road-Phase I
Project Acreage: 28.320
Special Basin Criteria: Palatlakaha River Hydrologic Basin
Receiving Water Body: Unnamed wetlands **Class:** III Fresh.
County: Lake
Correct Fee Submitted: Yes **Amount Received:** $1,000.00

Authority: 40C-4.041(2)(b)4

Type of Treatment: Retention, Swales with Ditch blocks
Type of Development: Governmental/Institutional
Type of System: New Surface Water Management System
Final O&M Entity: Lake County Department of Public Works
Pre/Post Peak Rate Attenuation Provided: Yes
Pre/Post Volume Attenuation Provided: Yes
Mean Annual Storm Attenuation Provided: Yes
Recovery of Water Quality Vol. Within Req. Time: Yes
Recovery of Peak Attenuation Vol. Within Req. Time: Yes
Interested Parties: No
Objectors: No

Authorization Statement

A Permit Authorizing:

Construction and operation of a Surface Water Management System for a 28.32-acre governmental road expansion project known as the Hartwood Marsh Road-Phase I. This permit does not authorize any work in, on, or over surface waters or wetlands.

Staff Comments:

The proposed project includes the widening of Hartwood Marsh Road beginning from the intersection of US Highway 27 and extending east for a distance of 0.998 miles. The project site is located within the nested Palatlakaha River Hydrological basin of the Southern Ocklawaha River Hydrologic Basin. The receiving water body for the proposed project is land-locked and is an unnamed wetland to the south.

Included with this application for authorization, the applicant proposes to widen the existing roadway (from STA. 103 + 29.11 to STA. 155 + 50.00) from a two-lane undivided rural roadway to a four lane divided urban roadway with bicycle lanes, sidewalks, and a multipurpose trail. Management of surface water runoff will be accomplished via a combination of inlets, stormsewers, swales with ditch blocks, and two dry retention ponds.

In the post development condition, the basin area contributing runoff to Pond 1 consists of the roadway (STA. 103 + 43.00 to STA. 138+ 50.00) and off-site basins directly adjacent to the road. Pond 1 has been designed for an interim condition. Currently, a portion of the undeveloped First Baptist Church of Clermont property contributes runoff to Pond 1. When the Church property is developed at a later date, stormwater runoff from this area will be redirected to the Pond 2 system for the required water quality treatment and attenuation.

In the post development condition, the basin area contributing runoff to Pond 2 consists of the roadway (STA. 138 + 50.00 to STA. 152+ 39.00) and off-site basins directly adjacent to the road. Pond 2 is located on the First Baptist Church of Clermont property and has been designed to accommodate the water quality and quantity requirements from the Church property when it is fully developed, assuming a maximum imperviousness of 80%. Pond 2 has also been designed to accommodate the water quality and quantity requirements from a 957 linear foot section of the future South Hancock Road extension.

In the post development interim condition, stormwater runoff from the Basin 3 roadway area (STA. 152 + 39.00 to STA. 162+ 22.00) and off-site basins directly adjacent to the road will be routed to roadside swales with ditch blocks for the required water quality treatment and attenuation. Runoff from Basin 3 will ultimately be routed to a treatment and attenuation pond associated with the future Hartwood Marsh Road Phase II development.

The proposed surface water management system is designed to attenuate the peak rates of discharge for the mean annual, the 10-year, 24-hour, and the 25-year, 24-hour storm events. Sufficient storage is provided within the surface water management system to retain the pre-post runoff volume difference generated from the 25-year 96-hour storm event. The applicant has demonstrated that the system will provide on-line treatment and recovery of the required pollution abatement volume pursuant to Section 40C-42.026, F.A.C. and that the storage capacity of the surface water management system will be recovered within 14 days following the design storm event.

The applicant has provided assurances that this project, as proposed, is consistent with the design criteria and objectives of the District set forth in Chapters 40C-4, 40C-40 and 40C-42, F.A.C.

Site Description:

The pre-development site conditions of the 28.32-acre project area consist of the existing two-land roadway, abandoned citrus groves and a pine plantation. The project area is located entirely in uplands. The surrounding land use consists of residential, commercial, and agricultural lands. A 32.05-acre steeply rim-ditched herbaceous marshland is located adjacent to the proposed retention pond south of Hartwood Marsh Road.

Impacts:
Subsection 12.2.2, ERP A.H., states that an applicant must provide reasonable assurances that a regulated activity will not impact the values of wetland and other surface water functions so as to cause adverse impacts to: (a) the abundance and diversity of fish, wildlife and listed species; and (b) the habitat of fish, wildlife and listed species.

The applicant is not proposing impacts to wetlands or other surface waters.

Secondary impacts:
Subsection 12.2.7, ERP A.H., contains a four part criterion which addresses additional impacts that may be caused by a project: (a) impacts to wetland functions that may result from the intended use of a project; (b) impacts to the upland nesting habitat of listed species that are aquatic or wetland dependent; (c) impacts to significant historical and archaeological resources that are closely linked and causally related to any proposed dredging or filing of wetlands or other surface waters; and (d) wetland impacts that may be caused by future phases of the project or activities that are closely linked and causally related to the project.

The proposed activities were assessed for the potential to result in unacceptable secondary impacts, as defined in subsection 12.2.7, A.H. There are no wetlands or other surface waters within the project boundaries. The project is sufficiently distant from the offsite wetlands and other surface waters as to provide reasonable assurance that no secondary impacts will result from the proposed works. No evidence was observed that would indicate that the uplands on the site are being utilized by aquatic and wetland dependent species for nesting and denning. There are no known historical or archaeological resources of significance on, or adjacent to the site, that could be adversely affected by the proposed activities. No known future phases are anticipated. Therefore, it has been determined that the applicant has provided reasonable assurances that the proposed activities will not result in unacceptable secondary impacts, as defined in subsection 12.2.7, A.H.

Elimination/Reduction of Impacts:
Pursuant to subsection 12.2.1, ERP A.H., the applicant must consider practicable design modifications, which would reduce or eliminate adverse impacts to wetlands and other surface waters. A proposed modification which is not technically capable of being done, is not economically viable, or which adversely affects public safety through endangerment of lives or property is not considered "practicable".

Not applicable; the applicant is not proposing impacts to wetlands or other surface waters.

Mitigation:
The applicant is not proposing any impacts to wetlands or other surface waters; therefore, no mitigation is warranted.

Cumulative Impacts:
Subsection 12.2.8, ERP A.H., requires applicants to provide reasonable assurances that their projects will not cause unacceptable cumulative impacts upon wetlands and other surface waters within the same drainage basin as the project for which a permit is sought. This analysis considers past, present, and likely future similar impacts and assumes that reasonably expected future applications with like impacts will be sought, thus necessitating equitable distribution of acceptable impacts among future applications. Mitigation, which offsets a projects adverse impacts within the same basin as the project for which a permit is sought is presumed to not cause unacceptable cumulative impacts.

Not applicable; the applicant is not proposing impacts to wetlands or other surface waters.

Summary: The proposed project is consistent with the wetland review criteria in sections 12.2 – 12.3.8, A.H. The applicant has provided reasonable assurance that the proposed project is consistent with the design criteria and objectives of the District as set forth in Chapters 40C-4, 40C-41, and 40C-42, F.A.C., and that the proposed project meets all applicable conditions for permit issuance pursuant to sections 40C-4.301, and 40C-4.302, F.A.C.

Conditions for Application Number 40-069-114354-1:

ERP General Conditions by Rule (October 03, 1995):
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

ERP/MSSW/Stormwater Special Conditions (November 09, 1995):
1, 4, 10, 13

Other Conditions:

1. The proposed surface water management system must be constructed and operated as per plans received by the District July 17, 2008.

2. This permit does not authorize any work in, on, or over wetland*s or other surface waters.*

3. Prior to the placement of any impervious surfaces within the future First Baptist Church of Clermont property, the appropriate modification to this permit must be obtained from the District.

4. The operation and maintenance entity shall inspect the surface water management system within one year after the completion of construction and every year thereafter to determine if the system is functioning as designed and permitted. The operation and maintenance entity must maintain a record of each required inspection, including the date of the inspection, the name, address, and telephone number of the inspector, and whether the system was functioning as designed and permitted, and make such record available for inspection upon request by the District during normal business hours.

If at any time the system is not functioning as designed and permitted, then within 14 days the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance.

Reviewers: Gayle Albers
Ruth Grady