



City of Ocala

**ENGINEERING DEPARTMENT
CITY HALL ANNEX**
405 S.E. Osceola Avenue (34471)
P. O. Box 1270, Ocala, Florida 34478-1270
PHONE: (352) 629-8521 FAX: (352) 629-8242

December 3, 2004

Mr. Mike Register
St. John's River Water Management District
P.O. Box 1429
Palatka, FL 32178-1429

RE: CITY OF OCALA – LAKE TUSCAWILLA

Dear Mike:

It was a pleasure meeting with you, Chou, and Upasana on November 11, 2004 to discuss permitting of the new drainage retention area (DRA) adjacent to Lake Tuscawilla. The following is our understanding of the results of that meeting:

NEW DRA LOCATED WEST OF LAKE TUSCAWILLA

- The City wishes to install a new regional DRA that will provide stormwater treatment to a portion of the Lake Tuscawilla watershed that currently discharges runoff to the Alum Pond.
- Based on the preliminary design, stormwater flow will be diverted from Sub-Basins 11003, 11006, 110061, 110062, 11007, 16000 and 16001 to the new DRA.
- The DRA will be sized to accommodate the Water Quality Volume that would be required for these Sub-basins to be developed to 80% impervious.
- All new development or re-development in the Sub-basins, whether by the City or by private developers, will be permitted through the water management district so as to keep a "running total" of the DRA Water Quality Volume used and remaining.
- The City of Ocala will be the maintaining agency for the DRA.

EXISTING ALUM INJECTION POND

- The Alum Treatment Pond/Lake Tuscawilla DRA is an existing regional DRA.
- By diverting the flow from the aforementioned Sub-Basins to the new DRA, excess Water Quality Volume will become available in the Alum Pond. The amount of Water Quality Volume available will be based on the acres of impervious area diverted, approximately 27 acres according to the preliminary design.
- The City desires to utilize this excess Water Quality Volume to support development and re-development in the remaining Alum Pond Drainage Basin. The amount of new impervious area that could be permitted would be equal to the amount of impervious area diverted to the new DRA, approximately 27 acres.

Mike Register
December 3, 2004
Page 2

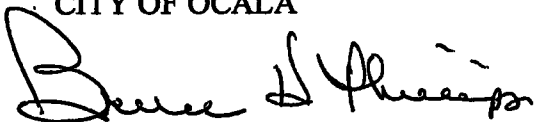
- When a permitted development increases impervious area in the contributing watershed, then Water Quality Volume will be subtracted from the Water Quality Volume "bank" of the Alum Pond.
- The City asked if "credits" would be returned to the Alum Pond if a new development decreased impervious area contributing to the Alum Pond, however, Mike Register did not make a decision in the meeting with regard to these circumstances. We think this is negligible and withdraw requests.
- All new development or re-development in the remaining basin, whether by the City or by private developers, will be permitted through the WMD, and will not require onsite treatment or additional Water Quality Volume in the Alum Pond as long as Water Quality Volume "credits" are available in the Alum Pond.
- The City of Ocala is and will remain the maintaining agency for the existing Alum Treatment Pond and Lake Tuscawilla.
- The City of Ocala will keep a "running total" of the new impervious areas developed in the basin and a balance of the remaining available Water Quality Volume in the Alum Treatment Pond, which will correspond to an impervious area.

Please review the above information and if it is an accurate summary of the meeting, please notify me of such so that we can authorize Black and Veatch to proceed with the permitting of the facilities.

We appreciate the District's continued cooperation with the City on these drainage issues.

Sincerely,

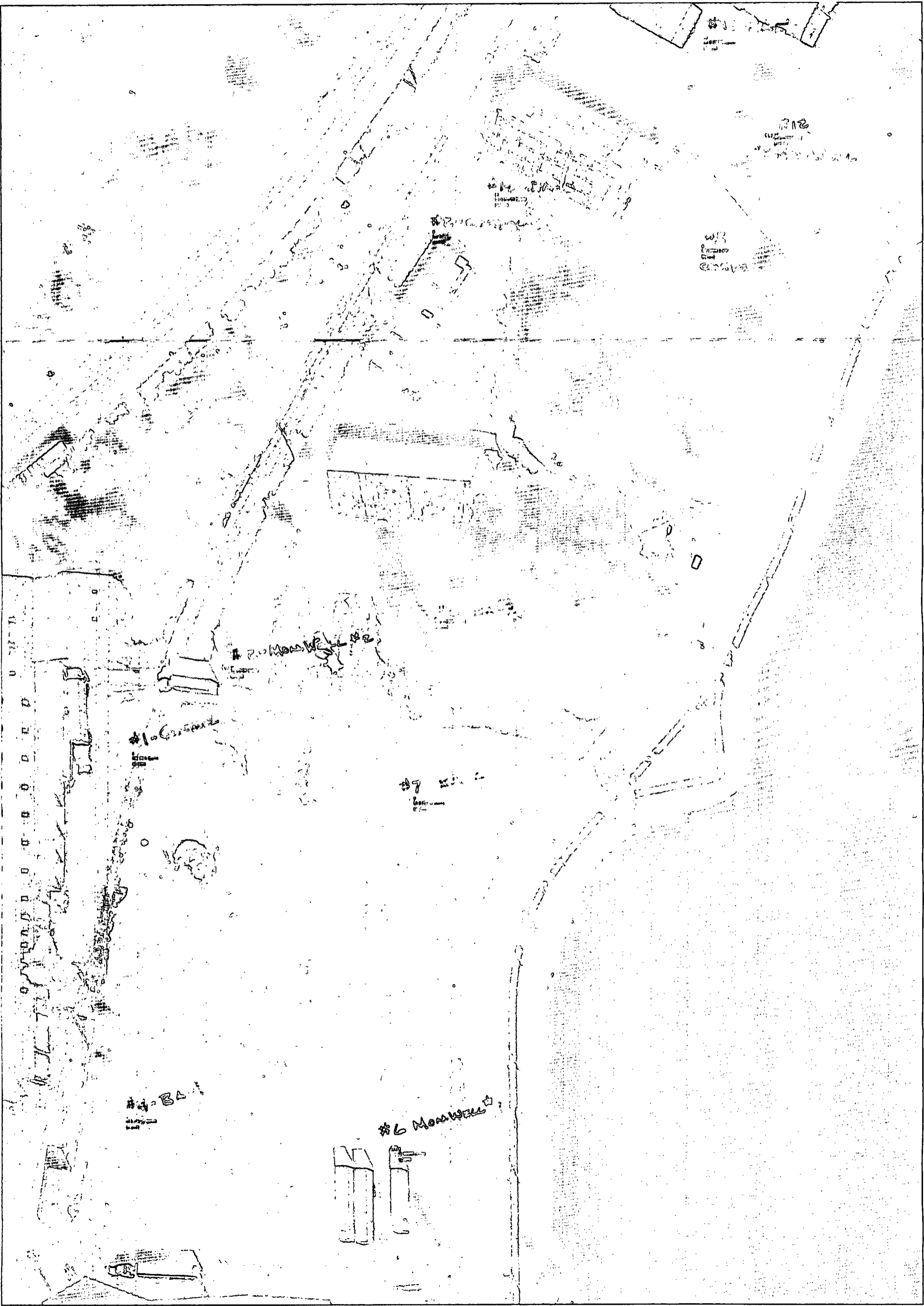
CITY OF OCALA



Bruce H. Phillips, P.E., P.L.S.,
City Engineer

c: Thomas P. Young, P.E., Deputy City Engineer/Drainage and Roads
Kenneth M. Blanton, P.E., Black and Veatch
Heather Cavanaugh, P.E., Black & Veatch

POOR QUALITY



Tuscawilla Monitoring Well Project

PT. #	Northing	Eastng	88 Elev.	Description	Latitude	Longitude
1	1766381.823	613333.0724	65.38	SET PK & SHINER	29° 11' 33.70866" N	82° 08' 03.28628" W
2	1766759.193	613551.0636	65.66	SET B/SPIKE	29° 11' 37.44721" N	82° 08' 00.83156" W
3	1766748.093	613746.4552	65.04	SET REBAR & CAP	29° 11' 37.33952" N	82° 07' 58.62682" W
4	1766118.865	613328.1525	68.65	BA 1 GROUND BORING	29° 11' 31.10523" N	82° 08' 03.33840" W
5	1766094.923	613525.6377	70.46	#1 TOP OF CASING	29° 11' 30.87043" N	82° 08' 01.10991" W
6	1766095.135	613525.5799	67.71	#1 GROUND	29° 11' 30.87253" N	82° 08' 01.11057" W
7	1766349.076	613536.7972	65.5	BA 2 GROUND BORING	29° 11' 33.38676" N	82° 08' 00.98726" W
8	1766480.532	613552.1184	65.25	BA 3 GROUND BORING	29° 11' 34.68839" N	82° 08' 00.81608" W
9	1766445.141	613404.3299	67.15	#2 TOP OF CASING	29° 11' 34.33634" N	82° 08' 02.48311" W
10	1766445.258	613404.1618	64.98	#2 GROUND	29° 11' 34.33749" N	82° 08' 02.48501" W
11	1766829.245	613799.1646	67.65	#3 TOP OF CASING	29° 11' 38.14354" N	82° 07' 58.03314" W
12	1766829.325	613799.2989	64.17	#3 GROUND	29° 11' 38.14433" N	82° 07' 58.03162" W
13	1766898.601	613748.2956	65.76	BA 5 GROUND BORING	29° 11' 38.82962" N	82° 07' 58.60798" W
14	1766785.894	613596.6571	65.89	BA 4 GROUND BORING	29° 11' 37.71208" N	82° 08' 00.31747" W

John Miller

From: Tom Young
Sent: Tuesday, January 18, 2011 3:31 PM
To: John Miller
Subject: FW: Calculations-impervious_area_and_land_value.xlsx

Need to talk to you about this in the morning.

From: Tom Young
Sent: Tuesday, January 18, 2011 3:30 PM
To: Melanie Gaboardi
Subject: RE: Calculations-impervious_area_and_land_value.xlsx

Called you this afternoon but missed you. Worked hard on this and have the numbers you are looking for.....however, we are not all confident on the intent of the Water Management District permit and want to discuss with John Miller in the morning. The impact fee in this case (re-development) is based on the water quality requirements based on the permit. Will get with you tomorrow morning.

With all this said, we are not opposed to a Council waiver of these fees but need to be consistent on the process.

From: Melanie Gaboardi
Sent: Tuesday, January 18, 2011 10:28 AM
To: Tom Young
Cc: John Miller; Marc Mondell
Subject: RE: Calculations-impervious_area_and_land_value.xlsx

Thanks, but I've got the storm water monthly use fees covered. The totals that I need are for the Storm water Impact Fees.

From: Tom Young
Sent: Tuesday, January 18, 2011 10:26 AM
To: Melanie Gaboardi
Cc: John Miller; Marc Mondell
Subject: RE: Calculations-impervious_area_and_land_value.xlsx

The monthly storm water utility fee is total impervious divided by 1948 s.f. multiplied by \$5. For example: Phase 1 is $25,505 / 1948 \times \$5$ or \$65.47.

Do you need me to do the rest?

I need to do some research on the impact fee. I will get back to you ASAP.

From: Melanie Gaboardi
Sent: Tuesday, January 18, 2011 10:02 AM
To: Tom Young
Cc: John Miller; Marc Mondell
Subject: Calculations-impervious_area_and_land_value.xlsx

Tom,
Per our conversation this morning, attached is the spreadsheet showing the impervious areas by project phase. It was thought that there would not be a storm water impact fee. Please confirm for me.

$$\begin{matrix} (1.25'' \text{ over impervious AREA}) + 0.5'' = \\ 1.75'' \text{ " " " " " " " " " } \end{matrix}$$

PHASE I $\frac{1.75'}{12} \times 25,505 = 3,719.57 \times 0.15 = \$ 2,789.61$

PHASE II - " $\times 40,098 \text{ Ft}^2 \times 0.15 = \$ 4,385.72$

PHASE III - " $\times 22,751 \text{ Ft}^2 \times 0.15 = \$ 2,488.39$

Total $\$ 9,663.72$

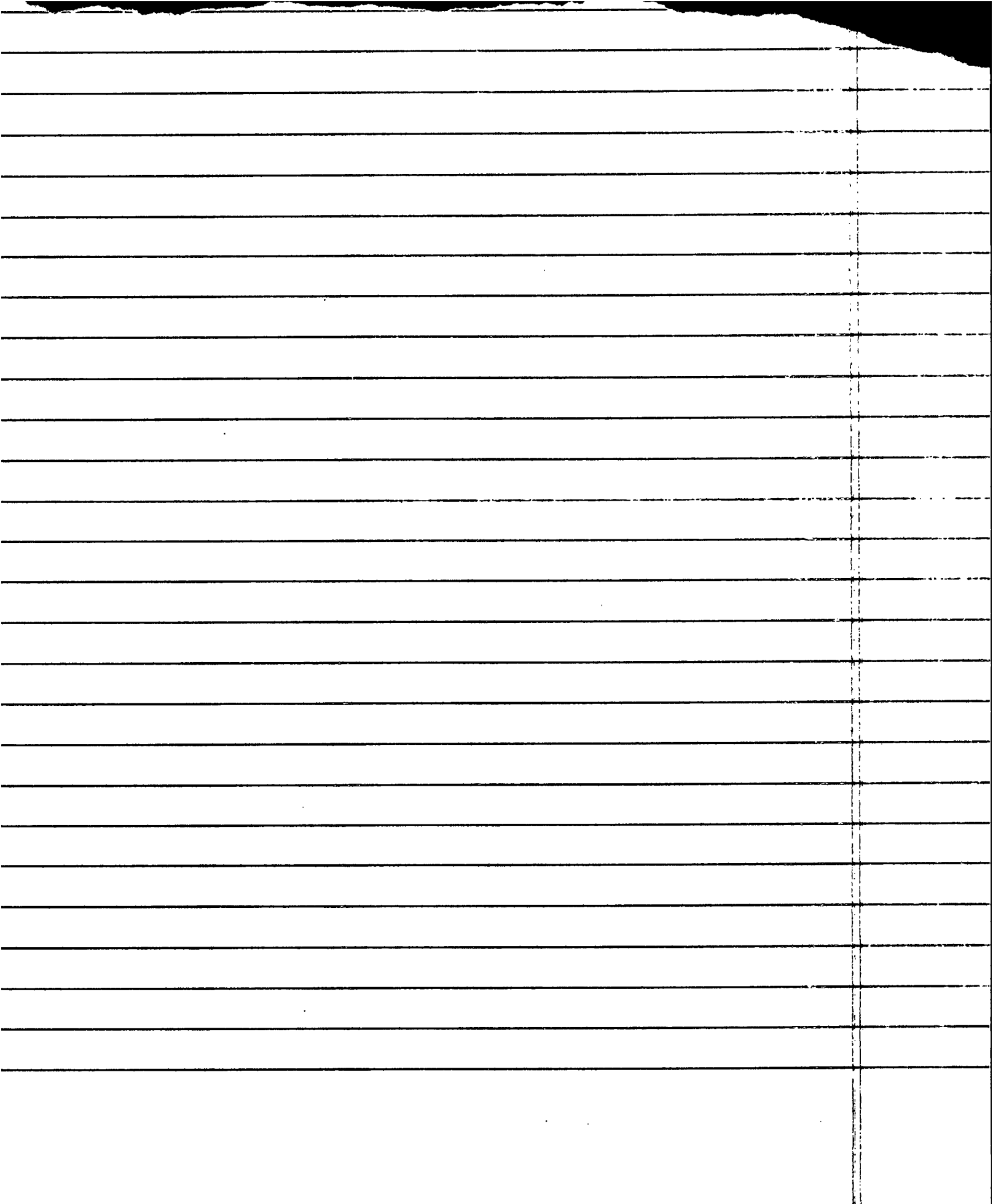
PHASE 4 - 1st BROADWAY - $44,114 \text{ Ft}^2 = \$ 4,925.00$

84% Imp.

PER Bruce PHILLIPS - (meeting with Bruce, I and JOHN MILLER ON 1/19/11) - NO stormwater Impact FBES! - I did NOT agree. See my calculations ABOVE FOR WATER QUALITY REQUIREMENTS per S.J.R.W.M.D. PERMIT.

John Miller
1-19-11

Bruce Phillips
1/19/11



SECTION C
ENVIRONMENTAL RESOURCE PERMIT NOTICE OF RECEIPT OF APPLICATION

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments. Please submit all information on 8 1/2" x 11" paper.

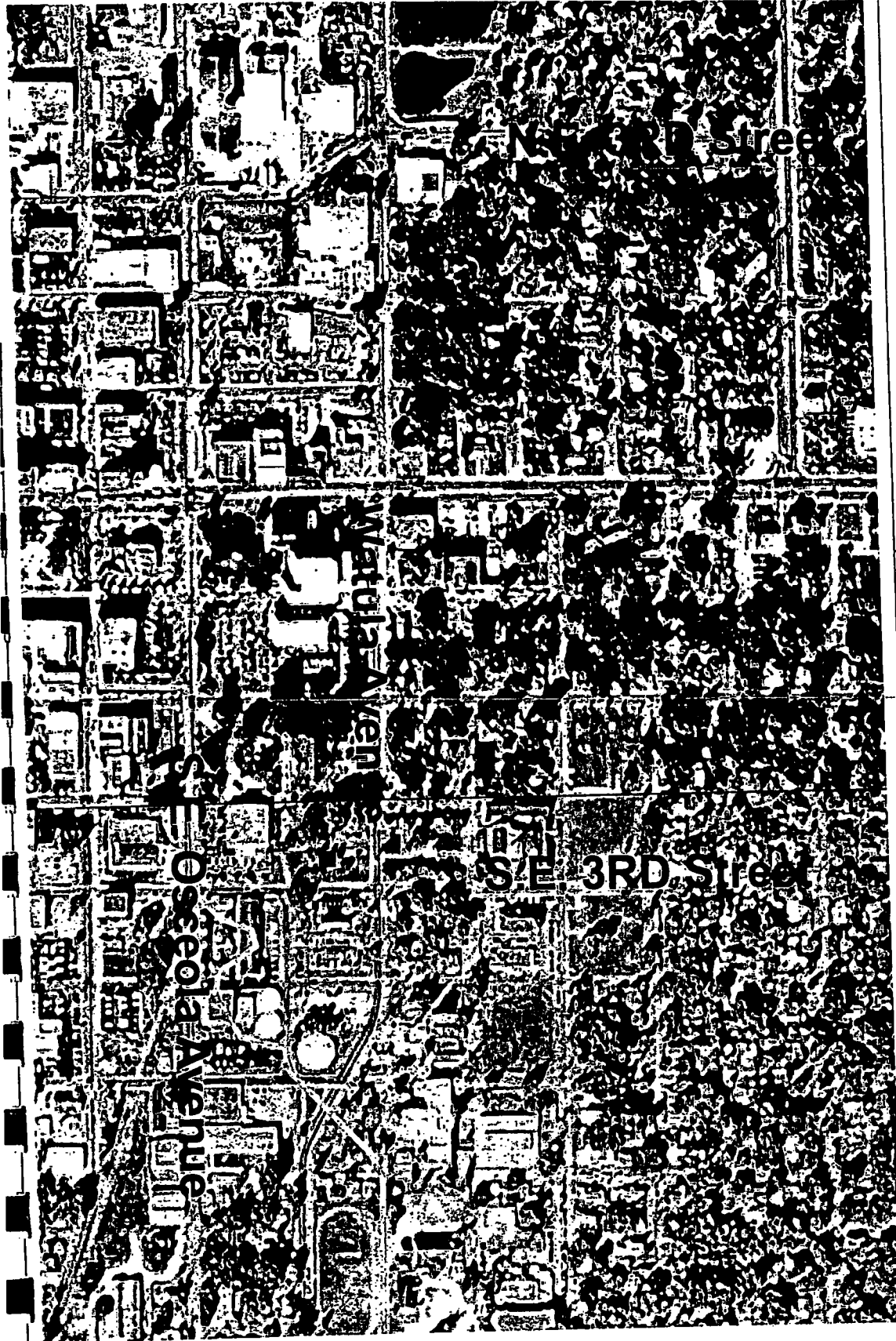
Project Name: Lake Tuscaawilla Indiv. ERP County: Marion
Owner: City of Ocala
Applicant: City of Ocala
Applicant's Address: P.O. Box 1270
Ocala, Florida 34478-1270

1. Indicate the project boundaries on a USGS quadrangle map reduced or enlarged as necessary to legibly show the entire project. If not apparent from the quad map, attach a location map showing a north arrow and a graphic scale; Section(s), Township(s), and Range(s); and sufficient detail to allow a person unfamiliar with the site to find it. See Figure 1-1.
2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve:
N/A
3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use a scale sufficient to show the location and type of works. Use multiple sheets, if necessary. Attached
4. Briefly describe the proposed project (such as "construct a deck with boatshelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"):
Individual ERP for Lake Tuscaawilla to include Ocala Electric Utilities Building, Fire Station #1, and future re-development.
5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be disturbed, filled, excavated, or otherwise impacted by the proposed activity:
N/A
6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):
N/A

4-083-19634-5

Palatka

FOR AGENCY USE ONLY	
Application Name	City of Ocala-Lake Tuscaawilla
Application Number	4-083-19634-5
Office where the application can be inspected	Palatka office
Date to be posted	
Date to be removed	



- Project Area
- Ocala Electric Utility
 - Ocala Fire Station
 - Lake Tusawilla Study Area

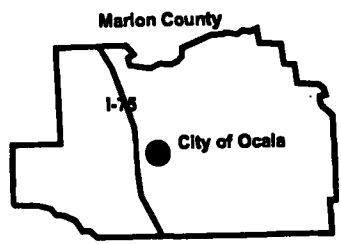


Exhibit 2
City of Ocala
Lake Tusawilla ERP Permit
Ocala Electric Utilities Project Location



"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

- d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.
- e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.
- f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.
- g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.

29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.

The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.

30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.
31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwm.com.

August 9, 2005

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Tom

SUBJECT: Permit Number 4-083-19634-6
Lake Tuscawilla West Pond *AS-BUILTS*

Dear Sir/Madam:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on August 9, 2005.

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit can be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

Gloria Lewis

Gloria Lewis, Director
Permit Data Services Division

Enclosures: Permit with EN Form(s), if applicable

cc: District Permit File

ENGINEERING

AUG 12 2005

Consultant: Black & Veatch
10751 Deerwood Pk Blvd No 130
Jacksonville, FL 32256

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN
APOPKA

David G. Graham, VICE CHAIRMAN
JACKSONVILLE

R. Clay Albright, SECRETARY
OCALA

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Ann T. Moore
BUNNELL

Susan N. Hughes
PONTE VEDRA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

**Post Office Box 1429
Palatka, Florida 32178-1429**

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tuscawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tuscawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

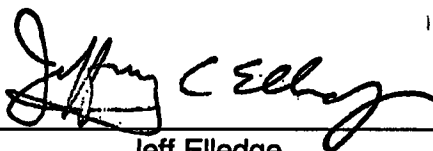
PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By: 
Jeff Elledge
(Director)

By: 
Kirby B. Green III
(Assistant Secretary)

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.

Devised e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.

f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.

g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.

29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.

The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.

30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.

31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fiek, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

August 9, 2005

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

SUBJECT: Permit Number 4-083-19634-6
Lake Tuscawilla West Pond

Dear Sir/Madam:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on August 9, 2005.

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit can be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

Gloria Lewis, Director
Permit Data Services Division

Enclosures: Permit with EN Form(s), if applicable

cc: District Permit File

Consultant: Black & Veatch
10751 Deerwood Pk Blvd No 130
Jacksonville, FL 32258

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN
APOPKA

David G. Graham, VICE CHAIRMAN
JACKSONVILLE

R. Clay Albright, SECRETARY
OCALA

Duane Ottenstroer, TREASURER
JACKSONVILLE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tuscowilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tuscowilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

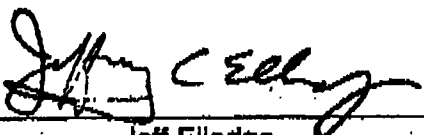
PERMIT IS CONDITIONED UPON:


See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By: 
Jeff Elledge
(Director)

By: 
Kirby B. Green III
(Assistant Secretary)

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
- 28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

- d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.
- e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 97.92 acres.
- f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.
- g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.
29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.
- The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.
30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.
31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

August 9, 2005

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

SUBJECT: Permit Number 4-083-19634-6
Lake Tuscawilla West Pond

Dear Sir/Madam:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on August 9, 2005.

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit can be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

Gloria Lewis, Director
Permit Data Services Division

Enclosures: Permit with EN Form(s), if applicable

cc: District Permit File

Consultant: Black & Veatch
10751 Deerwood Pk Blvd No 130
Jacksonville, FL 32256

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN
APOPKA

David G. Graham, VICE CHAIRMAN
JACKSONVILLE

R. Clay Albright, SECRETARY
OCALA

Duane Ottenstroer, TREASURER
JACKSONVILLE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tuscawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tuscawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

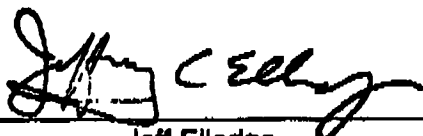
PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By: 
Jeff Elledge
(Director)

By: 
Kirby B. Green III
(Assistant Secretary)

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
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27. This permit for construction shall expire 10 years from the date of issuance.
- 28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.



ENGINEERING DEPARTMENT
 CITY HALL ANNEX
 405 S.E. Osceola Avenue (34471)
 P. O. Box 1270, Ocala, FL 34478-1270
 Phone (352) 629-8521
 Fax (352) 629-8242

LETTER OF TRANSMITTAL

TO: DIVISION OF PERMIT DATA SERVICES ATTN: _____
ST JOHN'S RIVER WATER MANAGEMENT DISTRICT
P.O. Box 1429 DATE: JUNE 5TH 2006
PALATKA, FL 32178-1429 RE: LAKE TUSCAWILLA - WEST POND
AS-BUILT CERTIFICATION

WE ARE SENDING YOU THE FOLLOWING:

- ATTACHED UNDER-SEPARATE COVER VIA _____
- SHOP DRAWINGS PRINTS DOCUMENTS VELLUMS
- SPECIFICATIONS DISC/DISKETTE C/D OTHER

QUANTITY	DESCRIPTION
2	MSSW / STORMWATER AS-BUILT CERTIFICATIONS EN-45
2	AS-BUILT CERTIFICATION EN-44
2	AS-BUILT PRINTS

(If material is not received as listed, please notify us at once)

REMARKS:	
	ALL DOCUMENTS ARE SIGNED & SEALED

SIGNED: John Mith, STORMWATER MANAGER

COPY TO: FILE

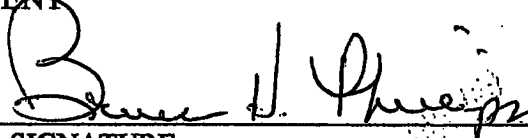
RECEIVED BY: _____ DATE: _____

AS-BUILT CERTIFICATION

PERMIT NUMBER: 4-083-19634-6

PROJECT NAME: LAKE TUSCAWILLA WEST POND

I HEREBY CERTIFY THAT ALL COMPONENTS OF THIS STORMWATER MANAGEMENT SYSTEM HAVE BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE PERMITTED PLANS AND SPECIFICATIONS. THESE DETERMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF THE SYSTEM CONDUCTED BY ME OR BY MY AUTHORIZED AGENT



SIGNATURE

Bruce H. Phillips, P.E., P.L.S.

NAME (Please Print)

City Engineer

TITLE

6/2/06

DATE

City of Ocala

COMPANY/AGENCY

P. O. Box 1270

COMPANY/AGENCY ADDRESS

Ocala, FL 34478-1270

CITY, STATE, ZIP CODE

(352) 629-8521

TELEPHONE NUMBER

WITHIN 30 DAYS OF COMPLETION OF THE SYSTEM, SUBMIT TWO COPIES OF THIS FORM TO:

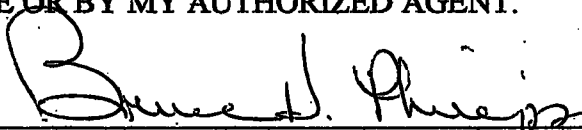
DIVISION OF PERMIT DATA SERVICES
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
P. O. BOX 1429
PALATKA, FL 32178-1429

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P. O. BOX 1429
PALATKA, FL 32178-1429

MSSW/STORMWATER AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL*

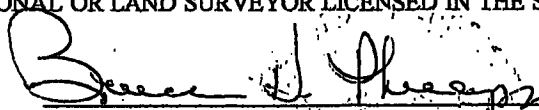
PERMIT NUMBER: 4-083-19634-6

PROJECT NAME LAKE TUSCAWILLA WEST POND

INSPECTION DATE(S): May 16, 2006

I HEREBY CERTIFY THAT ALL COMPONENTS OF THIS STORMWATER MANAGEMENT SYSTEM HAVE BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND IS READY FOR INSPECTION. ANY SUBSTANTIAL DEVIATIONS (NOTED BELOW) FROM THE APPROVED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTERS 40C-4, 40C-41, OR 40C-42, F.A.C. (AS APPLICABLE), WHEN PROPERLY MAINTAINED AND OPERATED. THESE DETERMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF THE SYSTEM CONDUCTED BY ME OR BY MY DESIGNEE UNDER MY DIRECT SUPERVISION AND/OR MY REVIEW OF AS-BUILT PLANS CERTIFIED BY A REGISTERED PROFESSIONAL OR LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.

Bruce H. Phillips, P.E., P.L.S., City Engineer
NAME (please print)


SIGNATURE OF PROFESSIONAL

City of Ocala
COMPANY NAME

P.E. 52417
FLORIDA REGISTRATION NUMBER

P. O. Box 1270
COMPANY ADDRESS

6/2/06
DATE

Ocala, FL 34478-1270
CITY, STATE, ZIP CODE

(352) 629-8521
TELEPHONE NUMBER

(Affix Seal)

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS:
None

(NOTE: ATTACH TWO COPIES OF AS-BUILT PLANS WHEN THERE ARE SUBSTANTIAL DEVIATIONS)

WITHIN 30 DAYS OF INSPECTION TO THE SYSTEM, SUBMIT TWO COPIES OF THIS FORM TO:

DIVISION OF PERMIT DATA SERVICES
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
P. O. BOX 1429
PALATKA, FL 32178-1429

* A REGISTERED PROFESSIONAL IS DEFINED IN SUBSECTION 40C-42.021(1) AS "A PROFESSIONAL REGISTERED IN FLORIDA WITH THE NECESSARY EXPERTISE IN THE FIELDS OF HYDROLOGY, DRAINAGE, FLOOD CONTROL, EROSION AND SEDIMENT CONTROL, AND STORMWATER POLLUTION CONTROL TO DESIGN AND CERTIFY STORMWATER MANAGEMENT SYSTEMS". EXAMPLES OF REGISTERED PROFESSIONALS MAY INCLUDE PROFESSIONAL ENGINEERS LICENSED UNDER CHAPTER 471, F.S., PROFESSIONAL LANDSCAPE ARCHITECTS LICENSED UNDER CHAPTER 481, F.S., AND PROFESSIONAL GEOLOGISTS LICENSED UNDER CHAPTER 492, F.S., WHO HAVE THE REFERENCED SKILLS.

MSSW/STORMWATER AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL*

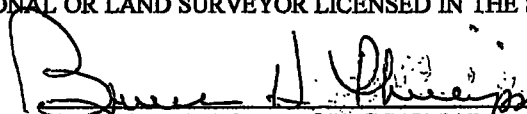
PERMIT NUMBER: 4-083-19634-6

PROJECT NAME LAKE TUSCAWILLA WEST POND

INSPECTION DATE(S): May 16, 2006

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Bruce H. Phillips, P.E., P.L.S., City Engineer
NAME (please print)


SIGNATURE OF PROFESSIONAL

City of Ocala
COMPANY NAME

P.E. 52417
FLORIDA REGISTRATION NUMBER

P. O. Box 1270
COMPANY ADDRESS

6/2/06
DATE

Ocala, FL 34478-1270
CITY, STATE, ZIP CODE

(352) 629-8521
TELEPHONE NUMBER

(Affix Seal)

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS:
None

(NOTE: ATTACH TWO COPIES OF AS-BUILT PLANS WHEN THERE ARE SUBSTANTIAL DEVIATIONS)

WITHIN 30 DAYS OF INSPECTION TO THE SYSTEM, SUBMIT TWO COPIES OF THIS FORM TO:

DIVISION OF PERMIT DATA SERVICES
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
P. O. BOX 1429
PALATKA, FL 32178-1429

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LONDON ENGINEERING
and Associates, Inc.

2201 SE 30th Avenue, Suite 101, Ocala, Florida 34471-5528

Phone: (352) 690-9551 Fax: (352) 690-6171

February 28, 2008

Mr. Chou Fang, PhD., P.E.
St Johns River Water Mgt. District
Department of Resource Management
P.O. Box 1429
Palatka, FL 32178-1429

**RE: Ocala National Bank, Overflow Parking - Parcel 2854-042-000
Letter Modification to Permit 4-083-19634-6
Lake Tusawilla Pond**

Dear Mr. Fang:

Marion County owns an old parking lot in the downtown area of the City of Ocala. The site is called Ocala National Bank – Overflow Parking. Marion County is proposing to reconstruct the parking lot. This will entail removing the existing parking area, and sidewalks on the existing site. A new parking area is proposed to be constructed. This parking area is being reconstructed in conjunction with the Judicial Center Expansion for an overflow parking area.

The site is within the Lake Tusawilla drainage basin and the existing site does not have an onsite drainage facility. With this reconstruction of the site, the total impervious area will be reduced by 4,127 s.f. from what is going to the existing drainage facility today.

Per Exhibit 'A' "Conditions for issuance of Permit Number 4-083-19634-6" condition number 28, we are requesting to modify this permit by this letter for the reconstruction of this parking lot. site. Also enclosed please find the construction plans for the proposed site and drainage calculations demonstrating the reduction of runoff from the site.

Please find three (3) copies of all submitted information along with the application fee of \$250.00.

If you have any questions or need additional information, please feel free to call.

Sincerely,



D. Todd Crosby P.E.
Florida P.E. No. 54000
DTC:st
08001

cc: Mr. John Miller, City of Ocala
Mr. Andy Race, Marion County

FEB 29 2008

ENGINEERING

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

F.O.R. No. 2008-05

IN RE:

**Thao & Lan Dinh
Application No. 4-009-16406-7**

**Regions Bank
Application No. 4-009-16506-6**

**Gregg K. Loggins
Application No. 4-009-95819-1**

**Ayako Williams, Trustee
Application No. 4-009-100018-1**

**North Florida Builders
Application No. 4-031-68507-2**

**FCT Ventures, LLC
Application No. 42-061-11484⁵-1**

**City of Ocala
Application No. 4-083-19634-8**

**Tocoi Junction, LLC
Application No. 4-107-104043-1**

SCS, INC.

Jones/Kroen

FINAL ORDER DENYING PERMIT APPLICATION

These matters came before the Governing Board on November 11, 2008, upon the District's notice of intent to deny the above referenced permit application numbers.

FINDINGS OF FACT

1. Each of the entities named in the caption to this Final Order made application to the District for a permit and the application was assigned the number stated in the caption.
2. After receipt of the application, the District sent one or more requests for additional information to each applicant but the applicant did not submit the requested information.
3. The District mailed a Notice of Intent to Deny the Application, with a Notice of Rights, to each applicant notifying the applicant that District staff would recommend

denial of the application at a regularly scheduled Governing Board meeting pursuant to Rule 40C-1.1008, Florida Administrative Code (F.A.C.).

4. The matter was presented to the Governing Board at its meeting and the Governing Board voted to administratively deny the application.

5. Each applicant failed to timely request an administrative hearing or other relief.

CONCLUSIONS OF LAW

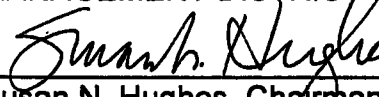
6. The District has jurisdiction over this matter. Paragraph 373.069(2)(c), Florida Statutes, and Chapter 40C-4, F.A.C.

7. Each applicant's failure to respond to the District's request for additional information violates Rule 40C-1.1008, F.A.C.

8. Each applicant has waived its right to an administrative proceeding or other relief by failing to timely request the same pursuant to the Notice of Rights provided.

WHEREFORE, upon consideration, it is ORDERED that above referenced permit application numbers are DENIED without prejudice to the applicant's right to file a new permit application on the same subject matter.

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT



Susan N. Hughes, Chairman

RENDERED this 14th day of January 9, 2008.



Robert Nawrocki, District Clerk

NOTICE OF RIGHTS

1. Any substantially affected person who claims that final action of the District constitutes an unconstitutional taking of property without just compensation may seek review of the action in circuit court pursuant to Section 373.617, Florida Statutes, and the Florida Rules of Civil Procedures, by filing an action within 90 days of rendering of the final District action.

2. Pursuant to Section 120.68, Florida Statutes, a party who is adversely affected by final District action may seek review of the action in the district court of appeal by filing a notice of appeal pursuant to Fla.R.App. 9.110 within 30 days of the rendering of the final District action.

3. A party to the proceeding who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Land and Water Adjudicatory Commission (Commission) by filing a request for review with the Commission and serving a copy on the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order. Review by the Florida Land and Water Adjudicatory Commission is not available for final orders resulting from an evidentiary hearing held under Sections 120.569 and 120.57, F.S., or for rules adopted after issuance of a final order resulting from an evidentiary hearing under Section 120.56, F.S.

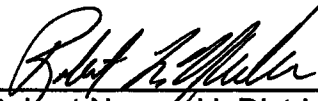
4. A District action or order is considered "rendered" after it is signed by the Chairman of the Governing Board on behalf of the District and is filed by the District Clerk.

5. Failure to observe the relevant time frames for filing a petition for judicial review as described in paragraphs #1 or #2 or for Commission review as described in paragraph #3 will result in waiver of that right to review.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of the foregoing NOTICE OF RIGHTS has been furnished by Certified United States Mail to: Thao and Lan Dinh, 2300 N. Banana River Dr., Merritt Island, FL 32952 (7000 0520 0022 6609 9659), Greg K. Loggins, Trustee, 141 North Banana River Drive, Merritt Island, FL 32952 (7000 0520 0022 6609 9642), North Florida Builders, 4540 Southside Blvd., Suite #202, Jacksonville FL 32216 (7000 0520 0022 6609 9581), City of Ocala, 400 SE Osceola Avenue, Ocala, FL 34471 (7000 0520 0022 6609 9598), Regions Bank, Attention: Gregory Y Harris, 250 Riverchase Pkwy Ste 600, Birmingham, AL 35244 (7000 0520 0022 6609 9604), Ayako Williams, Trustee, 779 E. Merritt Island Causeway #810, Merritt Island, FL 32952 (7000 0520 0022 6609 9611), FCT Ventures, LLC, Attention: William Pryor, 700 West 51st, Miami

Beach, FL 33140 (7000 0520 0022 6609 9628), and Toco Junction LLC, Attention:
William A. Brown, 77 Saragossa Street, Saint Augustine, FL 32084 (7000 0520 0022
6609 9635) on this 16 day of January, 2009.



Robert Nawrocki, District Clerk
St. Johns River Water
Management District
4049 Reid Street,
Palatka, FL 32177-2529



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

Tom Horton

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

September 29, 2008

Bruce H. Phillips, P.E., P.L.S.
City of Ocala
400 SE Osceola Avenue
Ocala, FL 34471

John,

Re: Lake Tuscawilla West Pond (ltr mod); Letter Modification Number: 4-083-19634-8
(Please reference the above number on any submittal)

- what is this?

Dear Mr. Phillips:

District records indicate that an application for your proposed project was submitted to this office on November 8, 2007. Review by District staff indicated that the application was technically incomplete, and a letter requesting additional information was sent December 6, 2007. The District has not received any response to the request for additional information. Thus, District staff will recommend administrative denial of the permit application at District Governing Board's Regulatory Meeting to be held in Palatka on November 11, 2008. This agency action is authorized by subsection 40C-1.1008, Florida Administrative Code:

The applicant shall have 120 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 120 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. As used herein, good cause shown means a demonstration that the applicant is diligently acquiring the requested information, and the additional time period requested is both reasonable and necessary to supply the information. The Executive Director, Assistant Executive Director, the Department Directors and Assistant Department Directors of the Department of Water Resources and Resource Management, the Director of the Division of Water Use Regulation and any Service Center Director are authorized to make a determination that such good cause has been provided. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be subject to denial. The requested information or written request showing good cause for additional time may be submitted to the District at any time prior to the denial of the application. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application. The applicant may request a section 120.569, F.S., hearing pursuant to Chapter 28-106 and section 40C-1.1006, F.A.C., to dispute the necessity of the information required.

If you have any questions, please do not hesitate to call me at 386/329-4428.

Sincerely,

Brian Abrams, Engineer III
Department of Water Resources

SEP 30 2008

cc: RIM/DL, Chou Fang, Michael A. Register, Chad Rischar, Thomas Mayton

ENGINEERING

Paolo Mastroserio, P.E., Mastroserio Engineering, Inc., 1 NE 1st Avenue, Suite 205, Ocala, FL 34470

GOVERNING BOARD

David G. Graham, CHAIRMAN
JACKSONVILLE

Susan N. Hughes, VICE CHAIRMAN
PONTE VEDRA

Ann T. Moore, SECRETARY
BUNNELL

W. Leonard Wood, TREASURER
FERNANDINA BEACH

Douglas C. Bournique
VERO BEACH

Michael Ertel
OVIDEO

Hershey "Herky" Huffman
ENTERPRISE

Arlen N. Jumper
FORT MCCOY

Hags G. Tanzler III
JACKSONVILLE



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

Tom Forte

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

September 29, 2008

Bruce H. Phillips, P.E., P.L.S.
City of Ocala
400 SE Osceola Avenue
Ocala, FL 34471

Re: Lake Tuscawilla West Pond (ltr mod); Letter Modification Number: 4-083-19634-8
(Please reference the above number on any submittal)

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Sincerely,

Brian Abrams, Engineer III
Department of Water Resources

SEP 30 2008

cc: RIM/DL, Chou Fang, Michael A. Register, Chad Rischar, Thomas Mayton **ENGINEERING**

Paolo Mastroserio, P.E., Mastroserio Engineering, Inc., 1 NE 1st Avenue, Suite 205, Ocala, FL 34470

GOVERNING BOARD

David G. Graham, CHAIRMAN JACKSONVILLE	Susan N. Hughes, VICE CHAIRMAN PONTE VEDRA	Ann T. Moore, SECRETARY BUNNELL	W. Leonard Wood, TREASURER FERNANDINA BEACH
Douglas C. Bournique VERO BEACH	Michael Ertel OVIEDO	Hershey "Herky" Huffman ENTERPRISE	Arlen N. Jumper FORT McCOY
			Hags G. Tanzler III JACKSONVILLE



MASTROSERIO ENGINEERING, INC

CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
SPECIALIZING IN SITE & SUBDIVISION DEVELOPMENT

1 NE 1ST AVE., SUITE 205, Ocala, FL 34470
PH: (352).840-9909
FAX:(352).854.9900
paolo@mastroserioeng.com

November 7, 2007

Department of Surface Water Management
Brian Abrams
S.J.R.W.M.D.
4049 Reid Street.
P.O. Box 1429
Palatka, Florida 32178-1429

RE: SCS, INC SITE PLAN

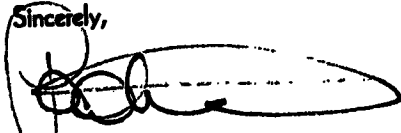
Dear Mr. Abrams:

Enclosed for your review & files are the following items:

1. One (1) copy of the signed & sealed site plans.
2. One (1) copy of the letter sent to Brian Abrams from the City of Ocala.

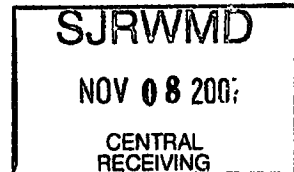
If you should have any questions or comments, please feel free to call me at (352) 840-9909.

Sincerely,



Paolo Mastroserio, P.E.

19634-8



11/12/07, 1:20 p.m.



City of Ocala

ENGINEERING DEPARTMENT

CITY HALL ANNEX
405 S.E. OSCEOLA AVENUE (34471)
P.O. BOX 1270, OCALA, FLORIDA 34478-1270
PHONE: (352) 629-8521 FAX: (352) 629-8242



October 30, 2007

RECEIVED IN PALATKA

NOV 08 2007

19634-8

Mr. Brian Abrams
Department of Surface Water Management
St. Johns River Water Management District
P.O. Box 1429
Palatka, FL 32178-1429

SJRWMD - PDS

RE: SCS, INC. SITE PLAN - CITY OF OCALA - LAKE TUSCAWILLA ALUM POND
PERMIT NO. 4-083-19634-6 - LETTER MODIFICATION REQUEST

Dear Mr. Abrams:

The City of Ocala requests a Letter Modification, for Permit No. 4-083-19634-6, for the redevelopment of a portion of a block located in the Alum Pond Basin. The proposed "SCS, Inc." project will add an additional 7,349 square feet or 0.17 acres of impervious area to the existing site.

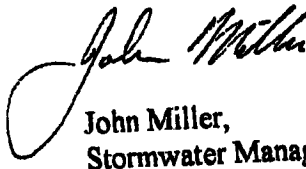
Total Site Area	15,951 sq. ft.	0.366 acres
Existing Impervious Area	373 sq. ft.	0.01 acres
Proposed Impervious Area	7,722 sq. ft.	0.177 acres
Net Impervious Area Increase	7,349 sq. ft.	0.17 acres


As of today's date, Permit No. 4-083-19634-6 provides for an additional 26.885 acres of impervious area capacity in the Alum Pond. This project utilizes 0.170 acres of that capacity leaving 26.715 acres of impervious area for future development.

If you have any questions, please call us at (352) 629-8521.

Sincerely,

CITY OF OCALA


John Miller,
Stormwater Manager


Bruce H. Phillips, P.E., P.L.S., City Engineer

JM/dl

c: Thomas P. Young, PE., Deputy City Engineer, Drainage/Roads
Paul Mastroserio, Mastroserio Engineering, Inc.



City of Ocala

ENGINEERING DEPARTMENT

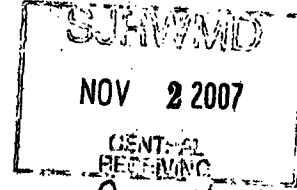
CITY HALL ANNEX
405 S.E. OSCEOLA AVENUE (34471)
P.O. BOX 1270, OCALA, FLORIDA 34478-1270
PHONE: (352) 629-8521 FAX: (352) 629-8242

Ocala-Marion County



October 30, 2007

Mr. Brian Abrams
Department of Surface Water Management
St. Johns River Water Management District
P.O. Box 1429
Palatka, FL 32178-1429



19634-8

RE: SCS, INC. SITE PLAN - CITY OF OCALA - LAKE TUSCAWILLA ALUM POND
PERMIT NO. 4-083-19634-6 - LETTER MODIFICATION REQUEST

Dear Mr. Abrams:

The City of Ocala requests a Letter Modification, for Permit No. 4-083-19634-6, for the redevelopment of a portion of a block located in the Alum Pond Basin. The proposed "SCS, Inc." project will add an additional 7,349 square feet or 0.17 acres of impervious area to the existing site.

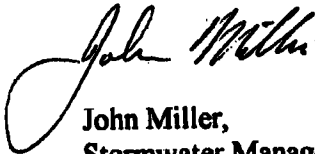
Total Site Area	15,951 sq. ft.	0.366 acres
Existing Impervious Area	373 sq. ft.	0.01 acres
Proposed Impervious Area	7,722 sq. ft.	0.177 acres
Net Impervious Area Increase	7,349 sq. ft.	0.17 acres


As of today's date, Permit No. 4-083-19634-6 provides for an additional 26.885 acres of impervious area capacity in the Alum Pond. This project utilizes 0.170 acres of that capacity leaving 26.715 acres of impervious area for future development.

If you have any questions, please call us at (352) 629-8521.

Sincerely,

CITY OF OCALA


John Miller,
Stormwater Manager


Bruce H. Phillips, P.E., P.L.S., City Engineer

SCANNED

Date 11/5/07

JM/dl

c: Thomas P. Young, PE., Deputy City Engineer, Drainage/Roads
Paul Mastroserio, Mastroserio Engineering, Inc.

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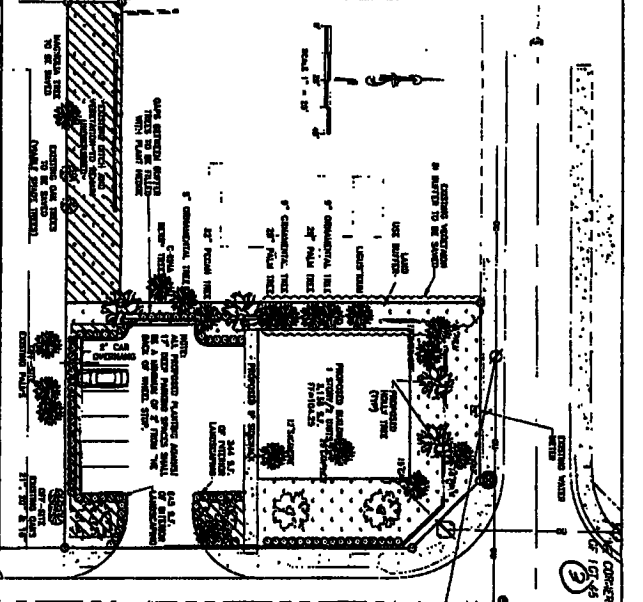
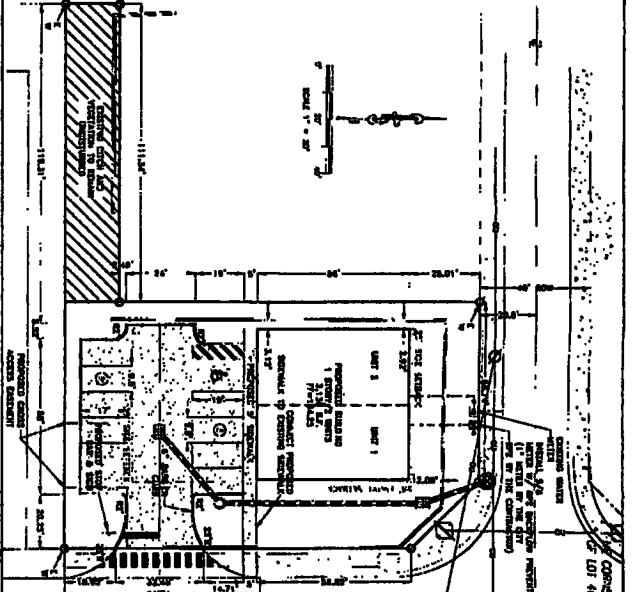
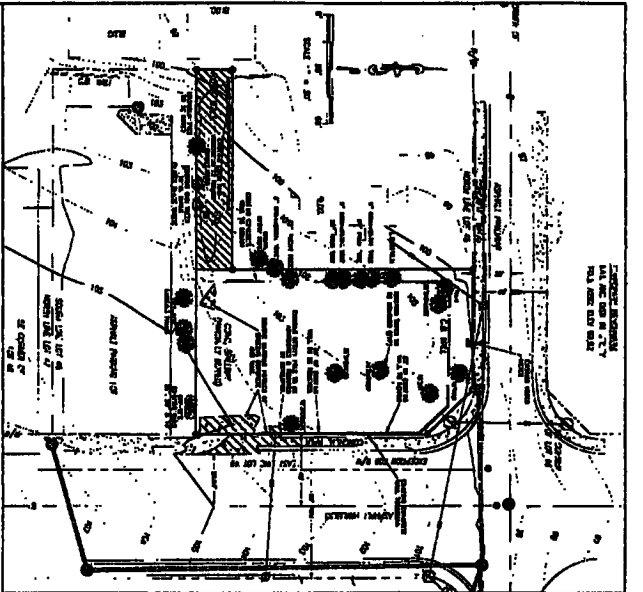
Oversized Drawings

1723

19634-8

Map - 3798
St. Johns

4



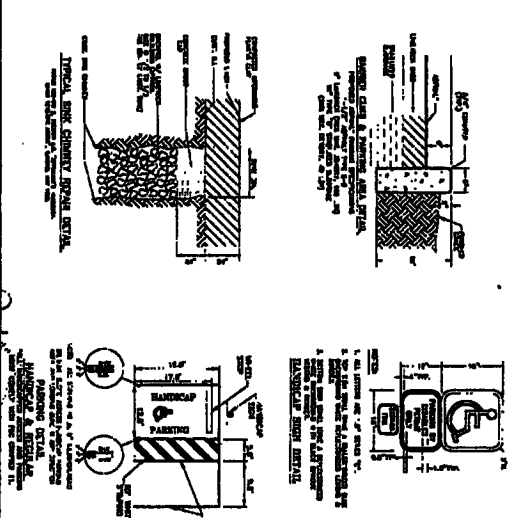
EXISTING AND DEMOLITION PLAN SCALE: 1" = 16'

SITE PLAN SCALE: 1" = 16'

LANDSCAPE PLAN SCALE: 1" = 16'

GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND ALL CITY ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TAMPA.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER.
- PROTECT ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
- ALL DEMOLITION SHALL BE COMPLETED BY 11/20/11.



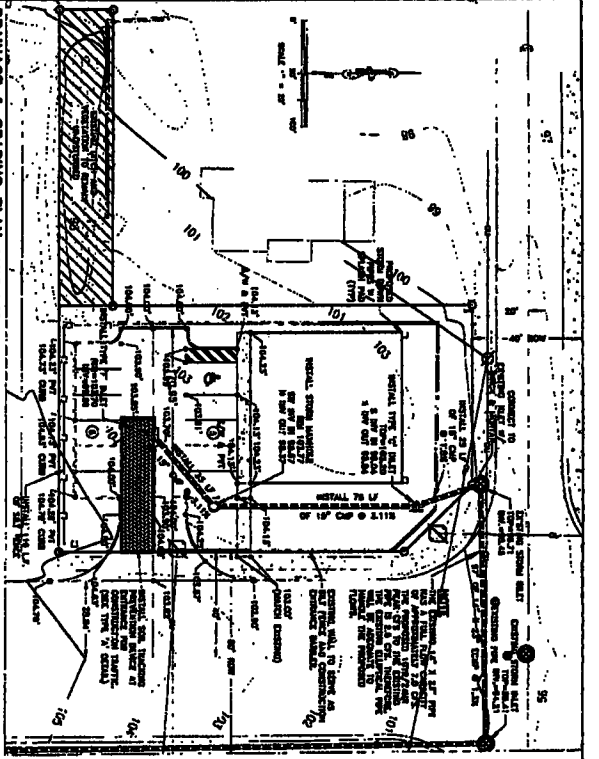
LEGEND:

- EXISTING CONCRETE
- DEMOLITION TO BE COMPLETED BY 11/20/11
- LANDSCAPE TO BE INSTALLED BY 11/20/11
- PROPOSED REPAIRS
- PROPOSED ADDITIONS

LANDSCAPE NOTES:

- ALL PLANTING SHALL BE INSTALLED BY 11/20/11.
- PROTECT ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER.

DATE: 11-28-11	ISSUED FOR CONSTRUCTION	SCALE: VARIOUS	PROJECT: 5301 S. STATE ROAD, LUDLOW COUNTY, FL
11-28-11	ISSUED FOR CONSTRUCTION		SECTION: 11/17/11/11, 11/18/11, 11/19/11
11-28-11	ISSUED FOR CONSTRUCTION		SHEET: C2 OF 3



Drainage & Grading Plan Scale 1/80

Drainage Data

Drainage Area	Area (sq. ft.)	Runoff Coefficient	Peak Discharge (cfs)
Roof	10,000	0.90	1.80
Driveway	2,000	0.80	0.40
Yard	5,000	0.30	0.15
Total	17,000		2.35

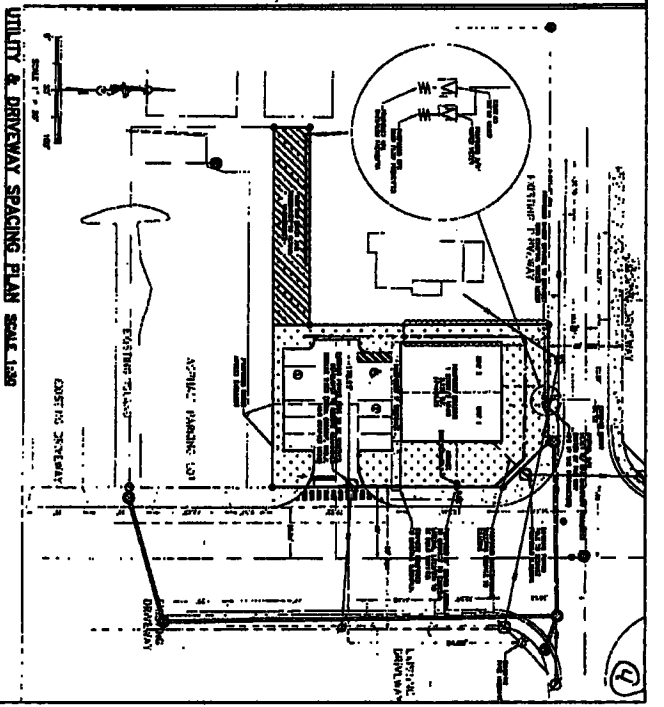
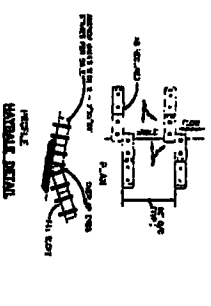
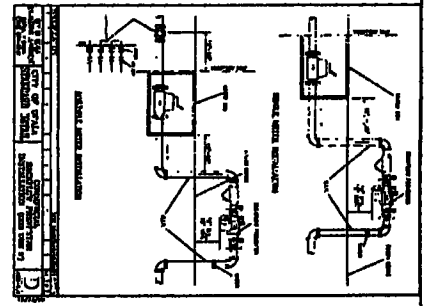
Drainage Impact Fee Data

Drainage Summary

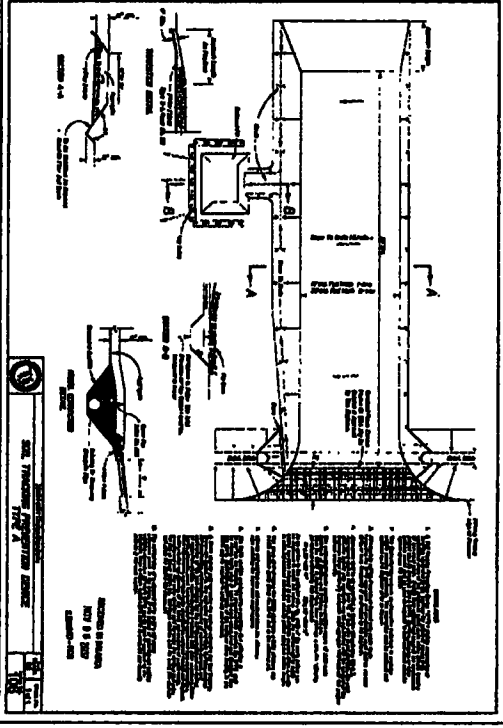
Drainage Notes

Drainage Details

Drainage Details



Utility & Driveway Spacing Plan Scale 1/80



PROJECT: SITE PLAN
 LOCATION: [Address]
 DATE: [Date]
 SHEET: SHEET 3 OF 3
 TITLE: DRAINAGE, GRADING, & UTILITY PLANS

DESIGNED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

SCALE: [Scale]
 VARIANTS: [Scale]

REGISTERED ENGINEERING, INC.
 CIVIL & SURVEYING
 1000 [Address]
 [City, State, Zip]

DATE: [Date]
 DRAWN BY: [Name]
 CHECKED BY: [Name]

PROJECT: [Project Name]
 LOCATION: [Address]
 DATE: [Date]

REGISTERED ENGINEERING, INC.
 CIVIL & SURVEYING
 1000 [Address]
 [City, State, Zip]



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Flak, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500

On the Internet at www.sjrwmd.com.

December 6, 2007

Bruce H. Phillips, P.E., P.L.S., City Engineer
City of Ocala, Engineering Department
405 SE Osceola Avenue
Ocala, FL 34478-1270

Re: Lake Tuscawilla West Pond (letter modification); Application Number 4-083-19634-8
(Please reference the above number on any submittal)

Dear Mr. Phillips:

The St. Johns River Water Management District is in receipt of your letter modification to Individual Environmental Resource Permit (ERP) Number 4-083-19634-6. It is unclear whether the proposed redevelopment and development of impervious surface falls within conditions outlined by the previous permit. As such, the following technical information is required to demonstrate that the proposed project qualifies for a letter modification pursuant to 40C-4.331(1)(b), Florida Administrative Code (F.A.C.). This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code (F.A.C.).

In order to expedite the review of your application, please use the application number referenced above on all correspondence and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. A letter from the City of Ocala requesting letter modification of Permit Number 4-083-19634-6 received by the District on November 8, 2007 did not adequately track the amount of impervious surface within Alum Pond and West Pond drainage basins. The amount of impervious surface available for development and redevelopment within these drainage basins is outlined in Condition 28 of the permit issued August 9, 2007. The permit has been attached for your information. West Pond has the capacity to provide water quality treatment for a maximum of 37.92 acres of impervious surface. The existing drainage basin to West Pond consists of 27.24 acres of impervious surface leaving 10.68 acres of impervious surface available for new development. 27.24 acres of impervious surface are available for development/redevelopment within the Alum Pond Basin.

Please see attached charts for the purpose of tracking new development and redevelopment within both basins, and fill out the charts accordingly. Using the charts, demonstrate adequate water quality treatment credits are available according to the permitted conditions. [40C-4.301(1)(b), (e), F.A.C.]

2. Please provide a map showing the location of the project area within the Alum Pond drainage basin. On the plan, demonstrate on-site stormwater system connects with the stormwater system, which ultimately discharges to Alum Pond. [40C-4.301(1)(a), (b), (e), F.A.C.]

GOVERNING BOARD

David G. Graham, CHAIRMAN
JACKSONVILLE

Susan N. Hughes, VICE CHAIRMAN
PONTE VEDRA

Ann T. Moore, SECRETARY
BUNNELL

W. Leonard Wood, TREASURER
FERNANDINA BEACH

Michael Ertel
OVIDO

Hersey "Herky" Huffman
ENTERPRISE

Arten N. Jumper
FORT MCCOY

William W. Kerr
MELBOURNE BEACH

Duane L. Ottenstroer
JACKSONVILLE

3. On the Drainage and Grading Plan (Plan Sheet C3), it is unclear how inlets and the surface water management system will be protected from sedimentation during site construction. Appropriate sedimentation control measures must be implemented during construction. Please propose a method of inlet protection to prevent sedimentation from occurring. Please note, the District does not accept the use of hay/straw bales as erosion and sediment control. Synthetic bales or an appropriate alternative may be used in lieu of hay/straw bales. Label each stormwater inlet with an appropriate protection method, and include any plan notes and details. Please submit revised plans, accordingly. [40C-42.025(1), F.A.C.]
4. On the Drainage and Grading Plan, please extend the silt fence along the western and northern property boundaries and all areas down gradient of the limits of construction. Please submit revised plans, as appropriate. [40C-42.025(1), F.A.C.]
5. The required fee for a request by letter modification to an individual permit is \$250.00. The District did not receive the required fee with the letter modification, on November 8, 2007. Please remit \$250.00 payable to St. Johns River Water Management District. [40C-1.603(5)(e), F.A.C.]

Suggestions or other direction provided by District staff is offered to assist applicants in complying with District rules. However, applicants bear the burden of demonstrating that their application meets the applicable rule requirements. Although District staff may provide suggestions to applicants that would allow staff to recommend approval of an application to the District Governing Board or senior staff, the final decision regarding the issuance or denial of a permit is up to the District Governing Board. Applicants are hereby advised that the Governing Board and senior staff is not bound by previous statements or recommendations of District staff regarding an application.

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 120 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 120 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. As used herein, good cause shown means a demonstration that the applicant is diligently acquiring the requested information, and that the additional time period requested is both reasonable and necessary to supply the information. The Executive Director, Assistant Executive Director, the Department Directors and Assistant Department Directors of the Departments of Water Resources and Resource Management, the Director of the Division of Water Use Regulation and any Service Center Director are authorized to make a determination that such good cause has been provided. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be subject to denial. The requested information or written request showing good cause for additional time may be submitted to the District at any time prior to the denial of the application. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt an individual or standard environmental resource permit must be obtained from the District under Chapters 40C-4, 40C-40, 40C-42, 40C-44 or 40C-400, F.A.C. prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

If you have any questions, please do not hesitate to call me at 386/329-4428.

Sincerely,


Brian Abrams, Engineer III
Department of Water Resources

Enclosure: Copy of Permit Number 4-083-19634-6
Charts for tracking impervious surface

cc: PDS/RAIL, ^{CF}Chou Fang, Sandy McGee, Michael A. Register

Paolo Mastroserio, P.E.
Mastroserio Engineering, Inc.
1 NE 1st Avenue, Suite 205
Ocala, FL 34470

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-18634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tusawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tusawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

PERMIT IS CONDITIONED UPON:

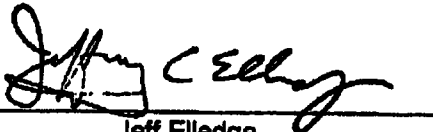
See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By:



Jeff Elledge
(Director)

By:



Kirby B. Green III
(Assistant Secretary)

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

- d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.
- e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.
- f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.
- g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.
29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.
- The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.
30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.
31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

March 21, 2008

D. Todd Crosby, P.E.
London Engineering & Associates, Inc.
2201 SE 30th Avenue, Suite 101
Ocala, FL 34471

MAR 24 2008
ENGINEERING

Re: Lake Tuscawilla West Pond (letter modification); Application Number 4-083-19634-9
(Please reference the above number on any submittal)

Dear Mr. Crosby:

The St. Johns River Water Management District is in receipt of your letter modification to Individual Environmental Resource Permit (ERP) Number 4-083-19634-6. Although it appears the proposed redevelopment and development of impervious surface falls within conditions outlined by the previous permit, the following technical information is required to demonstrate that the proposed project qualifies for a letter modification pursuant to 40C-4.331(1)(b), Florida Administrative Code (F.A.C.). This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code (F.A.C.).

In order to expedite the review of your application, please use the application number referenced above on all correspondence and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. It does not appear that you are a registered agent, or an officer or member of the letter modification applicant, City of Ocala. Please provide a letter of authorization that allows you to act on behalf of the letter modification applicant in the processing of the letter modification. Alternatively, please provide a revised letter requesting a letter modification that is signed by a person that is authorized to act on behalf of the permittee for Permit Number 40-083-26737-1. [40C-4.301(1)(j), 42.027, F.A.C.]
2. Please describe whether the on-site surface water management system discharges to the West Pond or Alum Pond portion of the Lake Tuscawilla drainage basin. Please provide a map showing the location of the project area within either drainage basin. On the plan, demonstrate on-site stormwater system connects with the stormwater system, which ultimately discharges to the designated subbasin of Lake Tuscawilla. [40C-4.301(1)(a), (b), (e), F.A.C.]
3. The request for letter modification did not adequately track the amount of impervious surface within Alum Pond and West Pond drainage basins. The amount of impervious surface available for development and redevelopment within these drainage basins is outlined in Condition 28 of the permit issued August 9, 2007. The permit has been attached for your information. West Pond has the capacity to provide water quality treatment for a maximum of 37.92 acres of impervious surface. The existing drainage basin to West Pond consists of 27.24 acres of impervious surface

GOVERNING BOARD

David G. Graham, CHAIRMAN JACKSONVILLE	Susan N. Hughes, VICE CHAIRMAN PONTE VEDRA	Ann T. Moore, SECRETARY BUNNELL	W. Leonard Wood, TREASURER FERNANDINA BEACH
Michael Eriel OVIDO	Hersey "Herky" Huffman ENTERPRISE	Arlen N. Jumper FORT MC COY	William W. Kerr MELBOURNE BEACH
			Duane L. Ottenstroer JACKSONVILLE

leaving 10.68 acres of impervious surface available for new development. 27.24 acres of impervious surface are available for development/redevelopment within the Alum Pond Basin.

Please see attached charts for the purpose of tracking new development and redevelopment within both basins, and fill out the charts accordingly. Using the charts, demonstrate adequate water quality treatment credits are available according to the permitted conditions. [40C-4.301(1)(b), (e), F.A.C.]

4. On Plan Sheet 4, please provide appropriate inlet protection for the existing inlet on North Magnolia Avenue. Please submit revised plans, as appropriate. [40C-42.025(1), F.A.C.]

Suggestions or other direction provided by District staff is offered to assist applicants in complying with District rules. However, applicants bear the burden of demonstrating that their application meets the applicable rule requirements. Although District staff may provide suggestions to applicants that would allow staff to recommend approval of an application to the District Governing Board or senior staff, the final decision regarding the issuance or denial of a permit is up to the District Governing Board. Applicants are hereby advised that the Governing Board and senior staff is not bound by previous statements or recommendations of District staff regarding an application.


If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 120 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 120 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. As used herein, good cause shown means a demonstration that the applicant is diligently acquiring the requested information, and that the additional time period requested is both reasonable and necessary to supply the information. The Executive Director, Assistant Executive Director, the Department Directors and Assistant Department Directors of the Departments of Water Resources and Resource Management, the Director of the Division of Water Use Regulation and any Service Center Director are authorized to make a determination that such good cause has been provided. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be subject to denial. The requested information or written request showing good cause for additional time may be submitted to the District at any time prior to the denial of the application. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt an individual or standard environmental resource permit must be obtained from the District under Chapters 40C-4, 40C-40, 40C-42, 40C-44 or 40C-400, F.A.C. prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

If you have any questions, please do not hesitate to call me at 386/329-4428.

Sincerely,



Brian Abrams, Engineer III
Department of Water Resources

Enclosure: Copy of Permit Number 4-083-19634-6
Charts for tracking impervious surface

cc: RIM/RAIL, Chou Fang, Chad Rischar, Michael A. Register

John Miller
City of Ocala, Engineering Department
405 SE Osceola Avenue
Ocala, FL 34478-1270

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tusawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tusawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

PERMIT IS CONDITIONED UPON:

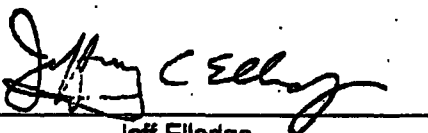
See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

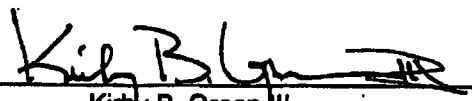
Governing Board

By:



Jeff Elledge
(Director)

By:



Kirby B. Green III
(Assistant Secretary)

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems; when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special-district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.812, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.

e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.

f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.

g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.

29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.

The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.

30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.

31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



City of Ocala

ENGINEERING DEPARTMENT

CITY HALL ANNEX

405 S.E. OSCEOLA AVENUE (34471)

P.O. BOX 1270, OCALA, FLORIDA 34478-1270

PHONE: (352) 629-8521 FAX: (352) 629-8242

Ocala-Marion County



October 31, 2008

Terri Mashour
St. Johns River Water Management District
Division of Land Management
4049 Reid Street
Palatka, FL 32178-1429

RE: PROPERTY ACQUISITION FOR: THOMPSON BOWL, LAKE TUSCAWILLA, AND SILVER SPRINGS RIVER POLLUTION REDUCTION PROJECTS

Dear Mrs. Mashour:

As a follow up to our meeting on October 28, 2008, the Thompson Bowl Project (4-083-56381-4), and Lake Tusawilla West Pond (4-083-19634-6) have been completed with the as-builts and certifications being submitted to the compliance department within St. Johns.

The Silver Springs River Pollution Reduction Project (4-083-111331-2) had the bid opening on October 21, 2008. We anticipate construction starting around the first of the year. The project has a 210 day time frame for construction.

When we are completed we will contract you and invite you to make an inspection of the project.

If you have any questions, please give us a call at (352) 629-8521.

Sincerely,

CITY OF OCALA

John Miller, CFM
Stormwater Manager

JM/mm

c: Thomas P. Young, P.E., Deputy City Engineer/Drainage and Roads
Joseph S. Switt, Real Estate Officer

S:\STORMWATER\Miller\letters to STJR\WMD\Terri Mashour-October 31.doc

Mailed &
Copy
10-31-08



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

Tom

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

December 22, 2005

Mr. Bruce H. Phillips, P.E., P.L.S.
Engineering Department
P.O. Box 1270
Ocala, FL 34478-1270

RE: Lake Tuscawilla West Pond, Permit #4-083-19634-6
(Please reference the above number on any submittal)

Dear Mr. Phillips:

The District received your letter of November 17, 2005, in which you asked for clarification and/or correction of some of the conditions of the above referenced permit. I asked our Supervising Professional Engineer, Chou Fang, to look in to your concerns. The following is a summary of his findings and will hopefully provide the requested clarifications regarding the amount of development and redevelopment authorized by the permit.

Permit #4-083-19634-6 authorized the following:

- Condition 28(c) authorized the construction of a maximum of 37.92 acres of impervious surface within the West Pond drainage basin. Of this 37.92 acres, a maximum of 10.68 acres may be new impervious surface (new development);
- Condition 28(d) authorized the construction and/or redevelopment of a maximum of 27.24 acres of impervious surface within the Alum Pond drainage basin; and
- Condition 28(e) limits the amount of impervious surface authorized to be constructed and/or redeveloped within both basins to a maximum of 37.92 acres.

Table 4-3 of the report received by the District on March 16, 2005, shows that the sub-basins diverted to West Pond have a total drainage area of 51.8 acres and 27.24 acres of impervious surface. However, in Table 4-4, the percentage of impervious surface area and the acreage of impervious surface area of the post-development sub-basin 11003 are inconsistent. The post-development total impervious acreage of 26.74 acres from this table was considered to be inaccurate. The 27.24 acres was considered to be correct and was specified in permit Condition #28(c). However, the 0.5-acre difference was credited toward redevelopment in both the West Pond and the Alum Pond drainage basins.

The 37.92 acres of allowable impervious surface in the West Pond drainage basin is based upon the water quality treatment capacity of the pond listed in Table 4-6. The 7.9 acre-feet of water quality treatment volume would provide for treatment of the runoff from 37.92 acres of impervious surface in the West Pond drainage basin. The number "38.41" in the third sentence of the paragraph below Table 4-6 on page 4-8 was considered to be incorrect.

GOVERNING BOARD

David G. Graham, CHAIRMAN
JACKSONVILLE
R. Clay Albright
OCALA

John G. Sowinski, VICE CHAIRMAN
ORLANDO
Susan N. Hughes
PONTE VEDRA

Ann T. Moore, SECRETARY
BUNNELL
William W. Kerr
MELBOURNE BEACH

Duane L. Ottenstroer, TREASURER
JACKSONVILLE
Ometrias D. Long
APOPKA

W. Leonard Wood
FERNANDINA BEACH

DEC 27 2005

BY: [Signature] F.R.I.N.C.

However, it may be possible to re-evaluate the treatment capacity of the pond based upon the available permanent pool volume and adjust the allowable impervious accordingly.

Because the West Pond serves 37.92 acres of impervious surface area and the West Pond drainage basin has 27.24 acres of impervious surface area in the pre-development condition, the allowable new impervious surface for developments in the West Pond Basin is 10.68 acres.

The project provides water quality benefit within the Lake Tuscawilla Watershed. The net water quality benefit is measured by the water quality treatment volume provided in West Pond where the water quality treatment volume is adequate to treat stormwater runoff from 37.92 acres of impervious surface area. As such, the net water quality benefit allows 37.92 acres of development and redevelopment within the Lake Tuscawilla Watershed. The development or redevelopment may be located in the Alum Pond drainage basin and/or the West Pond drainage basin.

Because the West Pond is located in the West Pond drainage basin, all 37.92 acres of impervious surface may be located in West Pond drainage basin, in which the maximum amount of new impervious surface area is 10.68 acres. The maximum amount of impervious surface area for development and redevelopment in the Alum Pond drainage basin equal to the amount of impervious surface removed from the drainage basin and directed to the West Pond for treatment (27.24 acres).

Based upon this review of the file, the permit conditions appear to be consistent with the permit application review and based upon the applicable District criteria for issuance and the design of the West Pond system. I hope this addresses your concerns. If you have further questions or wish to discuss the reevaluation of the treatment capacity of the West Pond based upon the available permanent pool volume, please do not hesitate to call me at (386) 329-4212 or Chou Fang at (386) 312-2313.

Sincerely,



Michael A. Register, P.E., Director
Palatka Service Center

Cc: PDS, Chou Fang

Mr. Paul K. Nugent, City Manager
City of Ocala
P.O. Box 1270
Ocala, FL 34478-1270

Ms. Heather Cavanaugh, P.E.
Black and Veatch
10751 Deerwood Park Boulevard, #130
Jacksonville, FL 32256

HAZARDOUS WASTE DIV 352 243 4228 P.02

GUIDELINES FOR DISPOSAL OF CONTAMINATED SOIL, MUCK, INDUSTRIAL WASTEWATER SLUDGE OR SEPTAGE, OR OTHER MATERIAL OF INDUSTRIAL ORIGIN IN THE MARION COUNTY LANDFILL.

As follows are written guidelines that will govern the disposal of all contaminated soil, muck, industrial wastewater sludge or septage, or other material of industrial origin disposed of at the Marion County Landfill. There is no guarantee that conforming to these guidelines will assure disposal of the material in question. Marion County reserves the right to refuse disposal of any waste based upon County concerns over the volume or nature of any waste material. Marion County may also at its discretion charge an additional tipping fee dependent upon the volume and nature of the material. All waste disposed must comply with all federal, state, and local laws.

1. All contaminated soil, muck, industrial wastewater sludge or septage, or other material of industrial origin disposed of at the Marion County Landfill must be accompanied with a completed generator certification form attached hereto as Attachment 1.
2. The material to be disposed must not be classified as a hazardous waste according to any listed Federal or State criteria, including wastes listed in 40 Code of Federal Regulations (CFR) 261 or 40 CFR 268. Any waste that is known to contain a hazardous substance or with which there is any question concerning its content or makeup must have the Toxicity Characteristic Leaching Procedure (TCLP) performed on it and laboratory analysis conducted for all parameters listed in Table 1 attached hereto or specific parameters designated by Marion County. Marion County reserves the right to require the TCLP to be performed on any material disposed of in the Marion County Landfill.
3. A RCRA metals analysis must be performed on all petroleum-contaminated soils. If the results exceed those listed in Table 2 attached hereto, then the TCLP must be performed and the RCRA metals analysis performed on the leachate. If any TCLP standard as given in Table 1 is exceeded, the soil is not eligible for disposal in the Marion County Landfill. Analytical results must be submitted to Marion County for review prior to disposal.
4. If petroleum contamination is from used oil, the TCLP with RCRA metals analyzes must be performed and the results submitted to Marion County prior to disposal. An exceedance of any of the TCLP standards will render the waste ineligible for landfill disposal.
5. Soil or other material contaminated with used oil, hydraulic oil, or mineral oils shall be analyzed by EPA Method 3550/3665/8080 for PCBs. Any PCB-contaminated material to be disposed of must have a PCB concentration of less than 50 ppm.
6. Any biosolids (sludge) of industrial origin must perform the TCLP and run laboratory analytical for all parameters listed in Table 1 on a sample with the solids content of the sludge to be disposed unless some or all of the TCLP parameters are waived by Marion County.
7. The generator must perform the TCLP on the material disposed at the landfill on an annual basis or as otherwise required by the County and submit the results to the Marion County Solid Waste Department for review.

Special waste guidelines September 18, 1998

ENGINEERING
DEC 10 2003

Table 1
Maximum Concentration of Contaminants
for the Toxicity Characteristic

EPA HW No.	Contaminant	Regulatory Level (mg/L)
D004	Arsenic	5.0
D005	Barium	100.0
D018	Benzene	0.5
D006	Cadmium	1.0
D019	Carbon tetrachloride	0.5
D020	Chlordane	0.03
D021	Chlorobenzene	100.0
D022	Chloroform	6.0
D007	Chromium	5.0
D023	o-Cresol	200.0
D024	m-Cresol	200.0
D025	p-Cresol	200.0
D026	Cresol	200.0
D016	2,4-D	10.0
D027	1,4-Dichlorobenzene	7.5
D028	1,2-Dichloroethane	0.5
D029	1,1-Dichloroethylene	0.7
D030	2,4-Dinitrotoluene	0.13
D012	Endrin	0.02
D031	Heptachlor (and its epoxide)	0.008
D032	Hexachlorobenzene	0.13

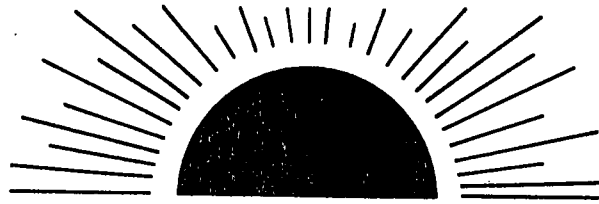
EPA HW No.	Contaminant	Regulatory Level (mg/L)
D033	Hexachlorobutadiene	0.5
D034	Hexachloroethane	3.0
D008	Lead	5.0
D013	Lindane	0.4
D009	Mercury	0.2
D014	Methoxychlor	10.0
D035	Methyl ethyl ketone	200.0
D036	Nitrobenzene	2.0
D037	Pentachlorophenol	100.0
D038	Pyridine	5.0
D010	Selenium	1.0
D011	Silver	5.0
D039	Tetrachloroethylene	0.7
D015	Toxaphene	0.5
D040	Trichloroethylene	0.5
D041	2,4,5-Trichlorophenol	400.0
D042	2,4,6-Trichlorophenol	2.0
D017	2,4,5-TP (Silvex)	1.0
D043	Vinyl chloride	0.2

001 270 7228 P.04

Table 2
Allowable Total Metals Concentrations
for RCRA Metals

Metals	Limit* (ug/kg)
Arsenic	90
Barium	1,800
Cadmium	18
Chromium	90
Lead	90
Mercury	3.0
Selenium	18
Silver	90

*Concentrations are 20 times the TCLP minus 10% of that Total, i.e., the TCLP for Arsenic = 5 mg/l, thus, Limit = $20 (5 \text{ mg/l}) - .1 (20) (5 \text{ mg/l}) = 90$.



SON GLOW LAB & ASSOC. INC.

Environmental Testing

P.O. Box 798 • Babson Park, FL 33827

Tel. 863-638-3255

Fax 863-638-3637

Ottman & Associates
2129 Woodburn Loop South
Lakeland, FL 33813

May 25, 2000
Lab I.D.: E84404
DEP QA Plan : 950097

Sample ID No.: 1503-00
Sample I.D.: City of Ocala - Truck Wash Grit
Collected: 04/18/00 @ 01:30 PM
Collected By: B. Crigar
Received: 05/01/00 @ 03:00 PM

TCLP - Metals

<u>Analyte</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Concentration</u>
Arsenic TCLP	1311/7060	0.003	mg/L	5.0
Barium TCLP	1311/6010	0.99	mg/L	100.0
Cadmium TCLP	1311/6010	<1.0 U	mg/L	1.0
Chromium TCLP	1311/6010	<5.0U	mg/L	5.0
Lead TCLP	1311/6010	0.35	mg/L	5.0
Mercury TCLP	1311/7471	<0.2U	mg/L	0.2
Selenium TCLP	1311/7740	<1.0U	mg/L	1.0
Silver TCLP	1311/6010	<5.0U	mg/L	5.0

U = Below method detection limit.

Analysis performed by Lab # E86006 / DEP QA Plan: 870206G


LINDA G. FISHER / LABORATORY DIRECTOR

5/25/00
DATE



POST OFFICE BOX 1270 • PHONE (352) 351-6700
 OCALA, FLORIDA 34478 • FAX (352) 351-6710

MAIL ALL INVOICES IN DUPLICATE
 TO FINANCE DEPARTMENT
 P.O. BOX 1270 OCALA, FLORIDA 34478

FLORIDA SALES TAX EXEMPTION NO: 52-20-024837-54C

VENDOR
28357

PURCHASE ORDER NUMBER
63306

PURCHASE ORDER NUMBER AND CITY STOCK NUMBER MUST APPEAR ON ALL DOCUMENTS AND PACKAGES. FAILURE TO COMPLY MAY RESULT IN YOUR DELIVERY BEING REFUSED.

TO: ELAB INC
 P.O. BOX 468
 ORMOND BEACH

FL 32175-0468

SHIP TO: ENGINEERING LAKE TUSCAWILLA POND
 405 SE OSCEOLA AVE

DATE OF ORDER	DELIVERY DATE	REQ. NO.	EXPEDITE	SHIP VIA	BUYER	FOB
02/08/2007	02/15/2007	07-0400	02/15/2007	YT	2	DESTINATION
ITEM	QUANTITY	UNIT	STOCK NO.	DESCRIPTION	UNIT PRICE	AMOUNT
1	1	LS	999999999	LAKE TUSCAWILLA WATER QUALITY TESTING AS REQUIRED BY FDEP PER YOUR QUOTE 06-1331 ATTN: JOE VONDRICK FAX: 386-672-5668	4464.00	4464.00
TOTAL						4464.00

ACCT. CODE	AMOUNT/ITEM	ACCT. CODE	AMOUNT/ITEM
1 158-34-435-538-43900	4464.00	5 000-00-000-000-00000	
2 000-00-000-000-00000		6 000-00-000-000-00000	
3 000-00-000-000-00000		7 000-00-000-000-00000	
4 000-00-000-000-00000		8 000-00-000-000-00000	

DATE RECEIVED	RECEIVED BY
TIME RECEIVED	DELIVERY RECEIPT #

PURCHASING DIRECTOR

P.O. # 63306

FEB 12 2007

ENGINEERING RECEIVING

BY _____



BLACK & VEATCH

10751 Deerwood Park Blvd.
Suite 130
Jacksonville, Florida 32256 USA

Black & Veatch Corporation

Tel: (904) 641-7339
Fax: (904) 641-7860

City of Ocala
Lake Tuscahill

B&V Project 136580
B&V File F_1.1

October 28, 2004

St. Johns River Water Management District
Department of Water Resources
4049 Reid Street / Highway 100 West
Palatka, FL 32177

Subject: Lake Tuscahill ERP 24-083-19634

Attention: Mr. Chou Fang, Ph.D., P.E.
Supervising Professional Engineer

Gentlemen:

Please find enclosed two copies of *Lake Tuscahill Expansion Study* by Black & Veatch. This report outlines the City of Ocala's plans to build a new pond as an expansion to the Lake Tuscahill drainage retention area in downtown Ocala.

This expansion was discussed in the meeting on February 27th between the City of Ocala and District staff. Since then, several questions have arisen about pollutant and water quality tracking. These questions are introduced in the report. Per our telephone conversation today, a meeting is planned on November 11th at 2:00 p.m. at the District's office to discuss these issues.

Please call me if you have any questions.

Very truly yours,

BLACK & VEATCH CORPORATION

Heather Cavanagh, P.E.
Project Engineer

HPC/klo
Enclosure[s]

cc: Mike Register, SJRWMD
Tom Young, City of Ocala
Bruce Phillips, City of Ocala

ENGINEERING

OCT 29 2004



Andreyev Engineering, Inc.

OCALA OFFICE
3426 S.W. 6th Street
Ocala, Florida 34474
352-401-9522
Fax: 352-401-9523
Email: drathbun@andreyevengineering.com

▼ Groundwater ▼ Environmental ▼ Geotechnical ▼ Construction Materials Testing

December 13, 2004
AEI Project No. OGGT-04-180

TO: Mr. John Miller, P.E.
City of Ocala Engineering Department
P.O. Box 1270
Ocala, Florida 34474

SUBJECT: Groundwater Levels, Lake Tuscaawilla Expansion Site, N.E. 5th Street and N.E. 4th Avenue (Watula), Ocala, Florida

Dear Mr. Miller:

As requested, Andreyev Engineering, Inc. (AEI) has completed groundwater level measurements at the subject site. The groundwater monitoring wells were installed by AEI and the results were presented in AEI's geotechnical report dated July 20, 2004. The groundwater levels were measured from the top of the monitoring well to the groundwater on December 13, 2004. The groundwater levels are presented below:

Groundwater Monitoring Well	Groundwater Level (feet)
MW-1	26.8
MW-2	21.0
MW-3	22.1

AEI appreciates the opportunity to participate in this project and trusts that the information presented herein is sufficient. Should you have any questions or comments concerning the contents of the report, please do not hesitate to contact the undersigned.

Sincerely,

ANDREYEV ENGINEERING, INC.

Bradley T. Reddick
Project Geologist

David J. Rathbun, P.E.
Vice President
Florida Registration No. 40494



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500

On the Internet at www.sjrwmd.com.

May 12, 2008

Bruce H. Phillips, P.E., P.L.S.
City of Ocala
405 SE Osceola Avenue
Ocala, FL 34478-1270

Re: Lake Tuscawilla West Pond, Permit No. 4-083-19634-6
(Letter Modification #4-083-19634-9)
(Please reference the above number on any submittal)

Dear Mr. Phillips,

The District is in receipt of your request for letter modification to Permit Number 4-083-19634-6, issued August 9, 2005, of the above-referenced master drainage system project. The proposed modification consists of development of a parcel within the West Pond basin of Lake Tuscawilla master drainage system, to be known as Ocala Nation Bank – Overflow Parking. The proposed development consists of re-development of 1.01 acres of impervious surface and a reduction of 0.15 acres of existing impervious surface.

Pursuant to Condition 28 of Permit Number 4-083-19634-6, you may obtain letter modifications for any proposed development and re-development located in the West Pond or Alum Pond Basins when all proposed development and re-development located within these basins cumulatively do not exceed any of the following criteria:

- The maximum amount new impervious surface for development within the West Pond drainage basin does shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres (Condition 28c);
- The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres (Condition 28d); and
- The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres (Condition 28e).

Based on the information that you have provided, your request qualifies for letter modification pursuant to section 40C-4.331(1)(b), Florida Administrative Code. All of the terms and conditions of Permit No. 4-083-19634-6 will remain in effect with the exception that Ocala National Bank – Overflow Parking must be constructed in accordance with the plans received by the District on March 16, 2008 and amended by Plan Sheet C4 received on April 24, 2008. This authorization to construct expires on May 9, 2010.

Upon completion of the proposed construction activities the amount of new impervious surface impervious surface available for development; and the amount of impervious surface for

GOVERNING BOARD

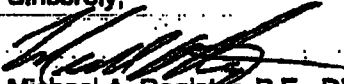
David G. Graham, CHAIRMAN JACKSONVILLE	Susan N. Hughes, VICE CHAIRMAN PONTE VEDRA	Ann T. Moore, SECRETARY BURNELL	W. Leonard Wood, TREASURER FERNANDINA BEACH
Douglas C. Bourmique VERO BEACH	Michael Ertel OVEDO	Hershey "Herky" Huffman ENTERPRISE	Arten N. Jumper FORT MCCOY
			Hans G. Tander III JACKSONVILLE

redevelopment, within the West Pond drainage basin will be 10.325 acres and 34.515 acres, respectively. The amount of impervious surface available for development and redevelopment within both the Alum Pond and West Pond drainage basins will be 34.515 acres. Please use these values for future tracking of impervious surface.

Please be advised the District has not published a notice in the newspaper to advise the public that it is issuing this letter of modification. If you do not publish a notice in the newspaper, a party's right to challenge the issuance of this letter modification extends for an indefinite period of time. If you wish to have certainty that the period for filing such a challenge is closed, then you may publish a notice, at your own expense, such a notice in a newspaper of general circulation within the area that includes the project to which the modification applies. A copy of the form of the notice is attached for your use.

The District appreciates your office working with us. If you have any questions, please contact Brian Abrams at (386) 328-4428.

Sincerely,



Michael A. Register, P.E., Director
Palatka Service Center

cc: RIM/LM, Chou Fang, Allen Baggett, Brian Abrams, Chad Rischar

D. Todd Crosby
London Engineering and Associates, Inc.
2201 SE 30th Avenue
Ocala, FL 34471



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

B
Tom

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

April 13, 2005

Certified Mail Number 7001 1940 0000 9944 3416

Ms. Heather Cavanagh, P.E.
Black & Veatch
10751 Deerwood Park Boulevard, #130
Jacksonville, FL 32256

RE: Lake Tuscawilla West Pond, Application #40-083-19634-6
(Please reference the above number on any submittal)

Dear Ms. Cavanagh:

The St. Johns River Water Management District is in receipt of your Individual Environmental Resource Permit application. Upon preliminary review of the proposed project, the following technical information is required to sufficiently review the possible impacts the project may have on the surrounding area. This information is being requested pursuant to the authority vested in the St. Johns River Water Management District under subsection 373.413(2), Florida Statutes, and sections 40C-4.101 and 40C-4.301, Florida Administrative Code.

In order to expedite the review of your application, please use the application number referenced above on all correspondence, and submit three (3) copies of all requested information unless otherwise indicated by a specific information request.

1. The cover sheet of the plans and two pages in the report entitled "Lake Tuscawilla West Pond Environmental Resource Permit Application" were signed, sealed, and dated by a professional engineer. Please be aware that, pursuant to section 61G15-23.002, F.A.C., each sheet of the plans must be signed, sealed, and dated by the professional engineer in responsible charge. Additionally, all supporting calculations, such as acreages of drainage basins, existing and proposed impervious surface, determination of design parameters and design calculations for the proposed West Pond, stormwater routings, and summary and interpretation of stormwater routing results, must be signed, sealed, and dated by the professional engineer in responsible charge. As such, please submit signed, sealed, and dated plans and supporting calculations that are fully certified by an appropriate professional with a valid registration in the State of Florida. [40C-42.025(1), F.A.C.]
2. Although notes on plan sheet Y-3 show descriptions of Karst Sensitive Area criteria, it is unclear how the three-feet of unconsolidated fill should be placed in relationship to the proposed clay liner. Please clarify. Show on a detailed cross-sectional view of the

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W. Michael Branch FERNANDINA BEACH	John G. Sowinski ORLANDO	William Kerr MELBOURNE BEACH	Ann T. Moore BUNNELL

APR 15 2005
N. Hughes
JACKSONVILLE

proposed West Pond the dimensions and locations of over-excavation, backfill, and clay liner. Additionally, please show a detailed cross-sectional view of the proposed sinkhole repair method. [40C-41.063(7), F.A.C.]

3. Please provide a map that clearly shows the boundaries, locations, and names of the drainage basins draining to the Alum Pond in the post-development condition. [40C-4.301(1)(e), F.A.C.]
4. Please provide a table in which the applicant shall keep record of development and re-development within the Alum Pond and West Pond drainage basins. For each drainage basin, list the following information in the table: date of record entry; watershed and drainage basin names; the acreage of the drainage basin; and the acreage of the existing impervious surface, the proposed impervious surface, the allowable impervious surface, and the remaining allowable impervious surface. [40C-4.301(1)(e), F.A.C.]
5. Please indicate in the SWMM input and output listings the stage-area-storage curves of Lake Tusawilla, Alum Pond, North Pond, and the proposed West Pond; and the initial and peak stages in these receiving water bodies. Please be aware that the output listings seem to show that the total rainfall is 11.5 inch and the total infiltration is 8.08 inch for the 100-year, 24-hour storm event. As such, about 70 percent of the total rainfall is infiltrated and about 30 percent of the total rainfall is direct runoff. The soils table in Appendix A shows about 48 percent of the drainage basin is on "Urban C" soil. The runoff coefficient used in the permanent pool volume calculations is 0.73. Furthermore, it is unclear how the drainage well capacity is simulated in the SWMM model and if the Horton equation applied to the upstream drainage basins is an appropriate simulation of the discharge in the drainage wells located at the downstream end of the watershed. As such, please show the calibration or verification of the SWMM model and demonstrate that the soil infiltration and the drainage well are properly accounted for in the determination of flood stages. Submit revised stormwater routings as appropriate. [40C-4.301(1)(a), F.A.C.]

Suggestions or other direction provided by District staff is offered to assist applicants in complying with District rules. However, applicants bear the burden of demonstrating that their application meets the applicable rule requirements. Although District staff may provide suggestions to applicants that would allow staff to recommend approval of an application to the District Governing Board or senior staff, the final decision regarding the issuance or denial of a permit is up to the District Governing Board. Applicants are hereby advised that the Governing Board and senior staff is not bound by previous statements or recommendations of District staff regarding an application.

If the applicant wishes to dispute the necessity for any information requested on an application form or in a letter requesting additional information, he or she may pursuant to section 373.4141, Florida Statutes, request that District staff process the application without the requested information. If the applicant is then unsatisfied with the District's decision regarding

Ms. Heather Cavanagh, P.E.

April 13, 2005

Page 3 of 3

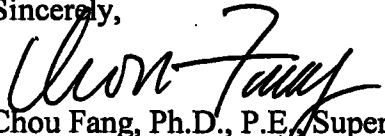
issuance or denial of the application, the applicant may request a section 120.569, Florida Statutes, hearing pursuant to Chapter 28-106 and section 40C-1.1007, F.A.C.

Please be advised, pursuant to subsection 40C-1.1008, F.A.C., the applicant shall have 120 days from receipt of a request for additional information regarding a permit or license application undergoing review by the District to submit that information to the District. If an applicant requires more than 120 days in which to complete an application, the applicant may notify the District in writing of the circumstances and for good cause shown, the application shall be held in active status for additional periods commensurate with the good cause shown. Any application which has not been completed by the applicant within the given time period following a request for additional information by the District shall be recommended for denial at the next regularly scheduled Board meeting. Denial of an application due to failure to submit requested additional information shall be a denial without prejudice to the applicant's right to file a new application.

In addition, no construction shall begin on the proposed project until a permit is issued by the St. Johns River Water Management District. This is pursuant to subsection 40C-4.041(1), F.A.C., which states in relevant part, "unless expressly exempt an individual or standard environmental resource permit must be obtained from the District under Chapter 40C-4, 40C-40, 40C-42, 40C-44, or 40C-400, F.A.C. prior to the construction, alteration, operation, maintenance, removal or abandonment of any dam, impoundment, reservoir, appurtenant work or works...."

If you have any questions, please do not hesitate to call me at 386/312-2313.

Sincerely,



Chou Fang, Ph.D., P.E., Supervising Professional Engineer
Department of Water Resources

cc: PDS/RAIL, Evan McClung, Lance Hart, Michael A. Register

Mr. Bruce H. Philips, P.E., P.L.S.
City of Ocala
P.O. Box 1270
Ocala, FL 34478-1270



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

August 9, 2005

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

**SUBJECT: Permit Number 4-083-19634-6
Lake Tuscawilla West Pond**

Dear Sir/Madam:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on August 9, 2005.

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit can be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

Gloria Lewis, Director
Permit Data Services Division

Enclosures: Permit with EN Form(s), if applicable

cc: District Permit File

Consultant: Black & Veatch
10751 Deerwood Pk Blvd No 130
Jacksonville, FL 32256

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN APOPKA	David G. Graham, VICE CHAIRMAN JACKSONVILLE	R. Clay Albright, SECRETARY OCALA	Duane Ottenstroer, TREASURER JACKSONVILLE	
W. Leonard Wood FERNANDINA BEACH	John G. Sowinski ORLANDO	William Kerr MELBOURNE BEACH	Ann T. Moore BURNELL	Susan N. Hughes PONTE VEDRA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tuscawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tuscawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

PERMIT IS CONDITIONED UPON:

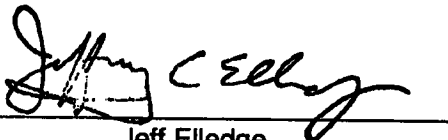
See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By:



Jeff Elledge
(Director)

By:



Kirby B. Green III
(Assistant Secretary)

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

- d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.
 - e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.
 - f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.
 - g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.
29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.
- The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.
30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.
31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

Tom Johnson

(B)

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

May 12, 2008

Bruce H. Phillips, P.E., P.L.S.
City of Ocala
405 SE Osceola Avenue
Ocala, FL 34478-1270

Re: Lake Tuscawilla West Pond, Permit No. 4-083-19634-6
(Letter Modification #4-083-19634-9)
(Please reference the above number on any submittal)

Dear Mr. Phillips,

The District is in receipt of your request for letter modification to Permit Number 4-083-19634-6, issued August 9, 2005, of the above-referenced master drainage system project. The proposed modification consists of development of a parcel within the West Pond basin of Lake Tuscawilla master drainage system, to be known as Ocala Nation Bank – Overflow Parking. The proposed development consists of re-development of 1.01 acres of impervious surface and a reduction of 0.15 acres of existing impervious surface.

Pursuant to Condition 28 of Permit Number 4-083-19634-6, you may obtain letter modifications for any proposed development and re-development located in the West Pond or Alum Pond Basins when all proposed development and re-development located within these basins cumulatively do not exceed any of the following criteria:

- The maximum amount new impervious surface for development within the West Pond drainage basin does shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres (Condition 28c);
- The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres (Condition 28d); and
- The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres (Condition 28e).

Based on the information that you have provided, your request qualifies for letter modification pursuant to section 40C-4.331(1)(b), Florida Administrative Code. All of the terms and conditions of Permit No. 4-083-19634-6 will remain in effect with the exception that Ocala National Bank – Overflow Parking must be constructed in accordance with the plans received by the District on March 16, 2008 and amended by Plan Sheet C4 received on April 24, 2008. This authorization to construct expires on May 9, 2010.

Upon completion of the proposed construction activities the amount of new impervious surface impervious surface available for development, and the amount of impervious surface for

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redevelopment, within the West Pond drainage basin will be 10.325 acres and 34.515 acres, respectively. The amount of impervious surface available for development and redevelopment within both the Alum Pond and West Pond drainage basins will be 34.515 acres. Please use these values for future tracking of impervious surface.

Please be advised the District has not published a notice in the newspaper to advise the public that it is issuing this letter of modification. If you do not publish a notice in the newspaper, a party's right to challenge the issuance of this letter modification extends for an indefinite period of time. If you wish to have certainty that the period for filing such a challenge is closed, then you may publish a notice, at your own expense, such a notice in a newspaper of general circulation within the area that includes the project to which the modification applies. A copy of the form of the notice is attached for your use.

The District appreciates your office working with us. If you have any questions, please contact Brian Abrams at (386) 328-4428.

Sincerely,



Michael A. Register, P.E., Director
Palatka Service Center

cc: RIM/LM, Chou Fang, Allen Baggett, Brian Abrams, Chad Rischar

D. Todd Crosby
London Engineering and Associates, Inc.
2201 SE 30th Avenue
Ocala, FL 34471

**NOTICE OF AGENCY ACTION TAKEN BY THE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

Notice is given that a permit modification was issued by letter on *[insert date of letter from District modifying permit]*:

(Name and address of applicant) _____
Number of Permit Modified _____. The project is located in _____
County, Section _____, Township _____, Range _____.
The permit modification authorizes the modification of A SURFACE WATER
MANAGEMENT SYSTEM known as _____. The modification
consists of: *[insert authorization description from letter modifying permit]*. The
receiving water body is _____.

The file(s) containing the application for the above listed permit modification is available for inspection Monday through Friday except for legal holidays, 8:00 a.m. to 5:00 p.m. at the St. Johns River Water Management District (District) Headquarters, 4049 Reid Street, Palatka, FL 32177. A person whose substantial interests are affected by the permit modification may petition for an administrative hearing in accordance with sections 120.569 and 120.57, Florida Statutes and Chapter 28-106, Florida Administrative Code, or may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in section 120.573, Florida Statutes, and rules 28-106.111 and 28-106.401-.404 Florida Administrative Code. Petitions must comply with the requirements of Florida Administrative Code Chapter 28-106 and be filed with (received by) the District Clerk located at District Headquarters, 4049 Reid Street, Palatka, FL 32177. Petitions for administrative hearing on the above application(s) must be filed within twenty-one (21) days of publication of this notice. Failure to file a petition within this time period shall constitute a waiver of any right(s) such person(s) may have to request an administrative determination (hearing) under sections 120.569 and 120.57, F.S., concerning the subject permit modification. Petitions that are not filed in accordance with the above provisions are subject to dismissal.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the District's final action may be different from the position taken by it in this notice of agency action. Persons whose substantial interests will be affected by any such final decision of the District on the permit modification have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

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Tom Jones

2

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On the Internet at www.sjrwmd.com.

May 12, 2008

Bruce H. Phillips, P.E., P.L.S.
City of Ocala
405 SE Osceola Avenue
Ocala, FL 34478-1270

Re: Lake Tuscawilla West Pond, Permit No. 4-083-19634-6
(Letter Modification #4-083-19634-9)
(Please reference the above number on any submittal)

Dear Mr. Phillips,

The District is in receipt of your request for letter modification to Permit Number 4-083-19634-6, issued August 9, 2005, of the above-referenced master drainage system project. The proposed modification consists of development of a parcel within the West Pond basin of Lake Tuscawilla master drainage system, to be known as Ocala Nation Bank – Overflow Parking. The proposed development consists of re-development of 1.01 acres of impervious surface and a reduction of 0.15 acres of existing impervious surface.

Pursuant to Condition 28 of Permit Number 4-083-19634-6, you may obtain letter modifications for any proposed development and re-development located in the West Pond or Alum Pond Basins when all proposed development and re-development located within these basins cumulatively do not exceed any of the following criteria:

- The maximum amount new impervious surface for development within the West Pond drainage basin does shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres (Condition 28c);
- The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres (Condition 28d); and
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Based on the information that you have provided, your request qualifies for letter modification pursuant to section 40C-4.331(1)(b), Florida Administrative Code. All of the terms and conditions of Permit No. 4-083-19634-6 will remain in effect with the exception that Ocala National Bank – Overflow Parking must be constructed in accordance with the plans received by the District on March 16, 2008 and amended by Plan Sheet C4 received on April 24, 2008. This authorization to construct expires on May 9, 2010.

Upon completion of the proposed construction activities the amount of new impervious surface impervious surface available for development, and the amount of impervious surface for

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Please be advised the District has not published a notice in the newspaper to advise the public that it is issuing this letter of modification. If you do not publish a notice in the newspaper, a party's right to challenge the issuance of this letter modification extends for an indefinite period of time. If you wish to have certainty that the period for filing such a challenge is closed, then you may publish a notice, at your own expense, such a notice in a newspaper of general circulation within the area that includes the project to which the modification applies. A copy of the form of the notice is attached for your use.

The District appreciates your office working with us. If you have any questions, please contact Brian Abrams at (386) 328-4428.

Sincerely,



Michael A. Register, P.E., Director
Palatka Service Center

cc: RIM/LM, Chou Fang, Allen Baggett, Brian Abrams, Chad Rischar

D. Todd Crosby
London Engineering and Associates, Inc.
2201 SE 30th Avenue
Ocala, FL 34471

**NOTICE OF AGENCY ACTION TAKEN BY THE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

Notice is given that a permit modification was issued by letter on *[insert date of letter from District modifying permit]*:

(Name and address of applicant) _____
Number of Permit Modified _____. The project is located in
_____ County, Section _____, Township _____, Range _____.
The permit modification authorizes the modification of A SURFACE WATER
MANAGEMENT SYSTEM known as _____. The modification
consists of: *[insert authorization description from letter modifying permit]*. The
receiving water body is _____.

The file(s) containing the application for the above listed permit modification is available for inspection Monday through Friday except for legal holidays, 8:00 a.m. to 5:00 p.m. at the St. Johns River Water Management District (District) Headquarters, 4049 Reid Street, Palatka, FL 32177. A person whose substantial interests are affected by the permit modification may petition for an administrative hearing in accordance with sections 120.569 and 120.57, Florida Statutes and Chapter 28-106, Florida Administrative Code, or may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in section 120.573, Florida Statutes, and rules 28-106.111 and 28-106.401-.404 Florida Administrative Code. Petitions must comply with the requirements of Florida Administrative Code Chapter 28-106 and be filed with (received by) the District Clerk located at District Headquarters, 4049 Reid Street, Palatka, FL 32177. Petitions for administrative hearing on the above application(s) must be filed within twenty-one (21) days of publication of this notice. Failure to file a petition within this time period shall constitute a waiver of any right(s) such person(s) may have to request an administrative determination (hearing) under sections 120.569 and 120.57, F.S., concerning the subject permit modification. Petitions that are not filed in accordance with the above provisions are subject to dismissal.

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St. Johns River Water Management District

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On the Internet at www.sjrwmd.com.

August 9, 2005

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Tom

SUBJECT: Permit Number 4-083-19634-6
Lake Tuscawilla West Pond

Dear Sir/Madam:

Enclosed is your permit as authorized by the Governing Board of the St. Johns River Water Management District on August 9, 2005.

This permit is a legal document and should be kept with your other important documents. The attached MSSW/Stormwater As-Built Certification Form should be filled in and returned to the Palatka office within thirty days after the work is completed. By so doing, you will enable us to schedule a prompt inspection of the permitted activity.

In addition to the MSSW/Stormwater As-Built Certification Form, your permit also contains conditions which require submittal of additional information. All information submitted as compliance to permit conditions must be submitted to the Palatka office address.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction for this work.

In the event you sell your property, the permit can be transferred to the new owner, if we are notified by you within thirty days of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

Thank you for your cooperation and if this office can be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

Gloria Lewis, Director
Permit Data Services Division

Enclosures: Permit with EN Form(s), if applicable

ENCLOSURE

cc: District Permit File

AUG 12 2005

Consultant: Black & Veatch
10751 Deerwood Pk Blvd No 130
Jacksonville, FL 32256

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN APOPKA	David G. Graham, VICE CHAIRMAN JACKSONVILLE	R. Clay Albright, SECRETARY OCALA	Duane Ottenstroer, TREASURER JACKSONVILLE
W. Leonard Wood FERNANDINA BEACH	John G. Sowinski ORLANDO	William Kerr MELBOURNE BEACH	Ann T. Moore BUNNELL
			Susan N. Hughes PONTE VEDRA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 4-083-19634-6

DATE ISSUED: August 9, 2005

PROJECT NAME: Lake Tusawilla West Pond

A PERMIT AUTHORIZING:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tusawilla Watershed.

LOCATION:

Section(s): 17 Township(s): 15S Range(s): 22E

Marion County

ISSUED TO:

City of Ocala
Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified therein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

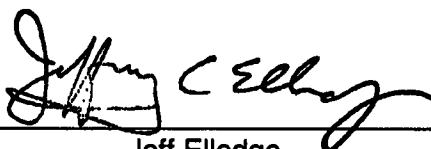
PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated August 9, 2005

AUTHORIZED BY: St. Johns River Water Management District

Department of Water Resources

Governing Board

By: 

Jeff Elledge
(Director)

By: 

Kirby B. Green III
(Assistant Secretary)

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-083-19634-6
CITY OF OCALA
DATED AUGUST 9, 2005

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
4. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
6. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40C-4.900(3) indicating the actual start date and the expected completion date.
7. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40C-4.900(4). These forms shall be submitted during June of each year.
8. For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior

to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

9. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by the portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to local government or other responsible entity.
10. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing As Built Certification Form 40C-1.181(13) or 40C-1.181(14) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
 1. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
 2. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
 3. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine state-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
 4. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
 5. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
 6. Existing water elevation(s) and the date determined; and Elevation and location of benchmark(s) for the survey.

11. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of general condition 9 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, the permittee shall be liable for compliance with the terms of the permit.
12. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior implementation so that a determination can be made whether a permit modification is required.
13. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 40C-1.612, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
20. If limestone bedrock is encountered during construction of the retention basins or a sinkhole or solution cavity forms during construction, construction of the basin must be halted immediately and the District must be notified. Remedial action will be required.
21. The permittee must visually inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on District Condition

Compliance Form Number EN-33. Two copies of the completed forms must be sent to the District annually by May 31st of each year.

22. The permittee must report any sinkhole that develops within the surface water management system. Permittee must notify the District of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a District approved methodology.
23. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.
24. Prior to construction, the permittee must clearly designate the limits of construction on-site. The permittee must advise the contractor that any work outside the limits of construction, including clearing, may be a violation of this permit.
25. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
26. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
27. This permit for construction shall expire 10 years from the date of issuance.
28. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.

d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.

e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.

f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.

g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.

29. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.

The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.

30. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.

31. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.



St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Flek, Assistant Executive Director

Tom B

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500
On the Internet at www.sjrwmd.com.

CERTIFIED # 70042510000200446845

Lake Tusculum

City of Ocala
Attn: Bruce H Phillips PE PLS
PO Box 1270
Ocala, FL 34478-1270

RE: Written Notice of Intended District Decision on Permit Application 4-083-19634-6
In Marion County

Dear Sir/Madam:

The staff of the St. Johns River Water Management District has completed its review of the above-referenced application. Enclosed is a copy of the Technical Staff Report (TSR) which states that staff will recommend approval of the application with those conditions contained in the TSR. This TSR constitutes a notice of the District's intent to grant the permit application. If you disagree with any part of the TSR, you should immediately contact the District staff to discuss your concerns. Please refer to the enclosed Notice of Rights which describes any rights you may have and important time frames regarding the proposed agency action.

You are entitled to address the Governing Board concerning the application. However, whether you do so or not is solely your decision. The staff recommendation, any presentation by you or others, and any objections will be considered in the Board's final permit decision.

The Governing Board will consider your application at 1:00 p.m. on August 9, 2005, or as soon thereafter as it may come to be heard at: St. Johns River Water Management District Headquarters, 4049 Reid St., Palatka, FL 32177. The District's Governing Board's Regulatory Committee may also review and discuss permit applications at its meeting scheduled for 10:00 a.m., August 9, 2005. This Regulatory Committee will review the regulatory agenda with District staff and make recommendations regarding which regulatory agenda items should be included on the consent agenda and which items should be pulled for discussion at the 1:00 p.m. Regulatory Meeting of the Governing Board. Although the Regulatory Committee may make recommendations on these regulatory agenda items, only the Governing Board may take final action at its Regulatory Meeting beginning at 1:00 p.m., August 9, 2005.

ENGINEERING

AUG 0 1 2005

GOVERNING BOARD

Ometrias D. Long, CHAIRMAN
APOPKA

David G. Graham, VICE CHAIRMAN
JACKSONVILLE

R. Clay Albright, SECRETARY
OCALA

Duane Ottenstroer, TREASURER
JACKSONVILLE

W. Leonard Wood
FERNANDINA BEACH

John G. Sowinski
ORLANDO

William Kerr
MELBOURNE BEACH

Ann T. Moore
BUNNELL

Susan N. Hughes
PONTE VEDRA

Anyone wishing to address the Governing Board on any regulatory item may do so at the Regulatory Meeting at 1:00 p.m. Both the Regulatory Committee Meeting and the Governing Board Regulatory Meeting will take place in the Governing Board room at St. Johns River Water Management District Headquarters, 4049 Reid Street, Palatka, Florida 32177. Agenda items scheduled for action on Tuesday, August 09, 2005, may be postponed for consideration at the Governing Board meeting which begins at 9:00 a.m. on August 10, 2005.

Sincerely,



Gloria Lewis, Director
Division of Permit Data Services

Enclosures: Technical Staff Report
Notice of Rights

July 28, 2005

cc: District File

Notice Of Rights

- 1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Sections 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the rights to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57, Florida Statutes, and Rules 28-106.111 and 28-106.401-405, Florida Administrative Code. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka, Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) within twenty-six (26) days of the District depositing notice of District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.**
- 2. If the Governing Board takes action which substantially differs from the notice of District decision, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to District Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at the address described above, within twenty-six (26) days of the District depositing notice of final District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of its final agency action (for those persons to whom the District does not mail actual notice). Such a petition must comply with Rule Chapter 28-106, Florida Administrative Code.**
- 3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.**
- 4. A substantially interested person has the right to an informal hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.**
- 5. A petition for an administrative hearing is deemed filed upon delivery of the petition to the District Clerk at the District headquarters in Palatka, Florida.**

Notice Of Rights

6. Failure to file a petition for an administrative hearing, within the requisite time frame shall constitute a waiver of the right to an administrative hearing (Section 28-106.111, Florida Administrative Code).
7. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code and Section 40C-1.1007, Florida Administrative Code.
8. An applicant with a legal or equitable interest in real property who believes that a District permitting action is unreasonable or will unfairly burden the use of his property, has the right to, within 30 days of receipt of notice of the District's written decision regarding a permit application, apply for a special master proceeding under Section 70.51, Florida Statutes, by filing a written request for relief at the office of the District Clerk located at District headquarters, P. O. Box 1429, Palatka, FL 32178-1429 (4049 Reid St., Palatka, Florida 32177). A request for relief must contain the information listed in Subsection 70.51(6), Florida Statutes.
9. A timely filed request for relief under Section 70.51, Florida Statutes, tolls the time to request an administrative hearing under paragraph no. 1 or 2 above (Paragraph 70.51(10)(b), Florida Statutes). However, the filing of a request for an administrative hearing under paragraph no. 1 or 2 above waives the right to a special master proceeding (Subsection 70.51(10)(b), Florida Statutes).
10. Failure to file a request for relief within the requisite time frame shall constitute a waiver of the right to a special master proceeding (Subsection 70.51(3), Florida Statutes).
11. Any substantially affected person who claims that final action of the District constitutes an unconstitutional taking of property without just compensation may seek review of the action in circuit court pursuant to Section 373.617, Florida Statutes, and the Florida Rules of Civil Procedures, by filing an action in circuit court within 90 days of the rendering of the final District action, (Section 373.617, Florida Statutes).
12. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure within 30 days of the rendering of the final District action.
13. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy on the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

Notice Of Rights

14. For appeals to the District Court of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.
15. Failure to observe the relevant time frames for filing a petition for judicial review described in paragraphs #11 and #12, or for Commission review as described in paragraph #13, will result in waiver of that right to review.

Certificate of Service

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

Bruce H Phillips PE PLS
City of Ocala
PO Box 1270
Ocala, FL 34478-1270

at 4:00 p.m. this 28th day of July, 2005.

Gloria Lewis

Division of Permit Data Services
Gloria Lewis, Director

St. Johns River Water Management District
Post Office Box 1429
Palatka, FL 32178-1429
(386) 329-4152

Permit Number: 4-083-19634-6

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT
TECHNICAL STAFF REPORT
July 26, 2005
APPLICATION #: 4-083-19634-6

Applicant: City of Ocala
Attn: Bruce H Phillips, P.E., P.L.S.
PO Box 1270
Ocala, FL 34478-1270
(352) 629-8521

Consultant: Black & Veatch
Attn: Heather Cavanagh, P.E.
10751 Deerwood Park Boulevard, No. 130
Jacksonville, FL 32256
(904) 997-7113

Project Name: Lake Tuscawilla West Pond
Acres Owned: 10.760
Project Acreage: 371.500
County: Marion
Section(s): 17 **Township(s):** 15S **Range(s):** 22E

Authority: 40C-4.041(2)(b)1, 40C-4.041(2)(b)2

Existing Land Use: Urban
Planning Unit: Florida Ridge Unit
Receiving Water Body: Lake Tuscawilla **Class:** III Fresh.
Final O&M Entity: City of Ocala
ERP Conservation Easements/Restrictions: N/A
Interested Parties: No
Objectors: No

Authorization Statement

A Permit Authorizing:

Modification to a of a previously permitted surface water management system for the construction of a wet detention pond to serve 371.5-acres of drainage area within the Lake Tuscawilla Watershed.

Staff Comments:

Project History

In the existing condition, Lake Tuscawilla receives stormwater runoff from a 417-acre watershed where a total of 121.1 acres is impervious surface. Lake Tuscawilla is at the bottom of a land-locked basin in downtown Ocala, Marion County.

Permit #4-083-0134 was issued on August 9, 1988, for expansion of four existing detention ponds, one of which was Lake Tuscawilla (also known as Pond #2). Lake Tuscawilla discharges to drainage wells that have been in operation since the 1950's.

Subsequently, Lake Tusawilla system has been modified twice. Permit #4-083-0134GM, was issued on April 13, 1993 and Permit #4-083-0134GM2 was issued on December 12, 1995, for sediment removals and several structural and operational modifications to the system. Previous permits did not authorize any development or redevelopment within the drainage basin.

Proposed project

This application is for modifications to the existing Lake Tusawilla system. The applicant proposes to construct a new wet detention pond (West Pond) and re-route stormwater runoff from an area that is currently draining to the existing Alum pond treatment system to this system for water quality treatment prior to discharging to Lake Tusawilla. In the post-development condition, the proposed West Pond and Alum Pond drainage basin areas are 55.3 and 316.2 acres, respectively. Within the 55.3 acres of the existing Alum Pond drainage basin to be routed to the West Pond for stormwater treatment, there are 27.24 acres of existing impervious surface. The proposed West Pond has the capacity to provide water quality treatment for a maximum of 37.92 acres of impervious surface within this basin. The proposed permanent pool volume exceeds the volume required for 55.3 acres of drainage basin at a runoff coefficient of 0.73.

This permit will serve as the master permit for development and redevelopment within the Alum Pond and West Pond drainage basins. The permittee may obtain letter modification for future development and redevelopment within the Alum Pond or West Pond drainage basins subject to the design parameters established in this permit. This will allow for the development/redevelopment of a maximum of 37.92 acres impervious within both basins and development/redevelopment of a maximum of 27.24 acres of impervious surface within the Alum Pond drainage basin.

The proposed surface water management system will not cause adverse water quality and water quantity impacts and will not cause adverse flooding impacts to on-site and off-site properties in the Lake Tusawilla watershed.

Site Description:

The 4.62-acre project area contains no wetlands or other surface waters. The site consists of cleared uplands (193). The project will not cause unacceptable adverse secondary impacts to upland habitats required by "listed" and dependent species for nesting or denning.

Impacts:

12.2.2 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.

There are no impacts associated with this project.

Secondary Impacts:

Section 12.2.7 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 filling 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 site is in an urban area within the City of Ocala and staff have determined that no secondary impacts will occur and that the project is in compliance with 12.2.7, A.H.

Elimination/Reduction of Impacts:

Pursuant to Section 12.2.1 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". Section 12.2.1

No design modifications are necessary.

Mitigation:

Mitigation is not applicable to this project.

Cumulative Impacts:

Section 12.2.8 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.

This project is in compliance with 12.2.8 A.H.

The applicant has provided reasonable assurances that the proposed project meets all applicable conditions for permit issuance pursuant to sections 40C-4.301, 40C-4.302, and 40C-41.063(7), F.A.C.

Conditions for Application Number 40-083-19634-6:**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):

7, 8, 9, 10, 13

Other Conditions:

1. The proposed surface water management system must be constructed and operated in accordance with the plans received by the District on May 17, 2005.
2. The stormwater management system shall be inspected by the operation and maintenance entity once within two years after the completion of construction and every two years thereafter to insure that the system is functioning as designed and permitted. If a required inspection reveals that the system is not functioning as designed and permitted, then within 14 days of that inspection the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance. 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.
3. This permit for construction shall expire 10 years from the date of issuance.
4. Pursuant to section 40C-4.331(1)(b), F.A.C., the permittee may obtain letter modifications to this permit to utilize the available compensatory water quality treatment authorized in this permit for construction, reconstruction, placement, or replacement of impervious surface within the West Pond Drainage Basin and the Alum Pond Drainage Basin. As a part of the application for letter modification, the permittee shall submit construction plans and calculations to the District for review and approval. Such documentation shall be necessary to insure conformance with the following conditions:
 - a. The proposed construction, reconstruction, placement, or replacement of impervious surface shall be on sites located within the Alum Pond Drainage Basin or the West Pond Drainage Basin;
 - b. The compensatory water quality treatment required for the development shall not cumulatively exceed the available compensatory water quality treatment provided the West Pond authorized in this permit. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quality impact to the receiving water bodies and adjacent lands.
 - c. The maximum amount new impervious surface for development within the West Pond drainage basin shall not exceed 10.68 acres. The maximum amount of total impervious surface for both development and redevelopment within the West Pond shall not exceed 37.92 acres.
 - d. The maximum amount of total impervious surface allowed for both development and redevelopment within the Alum Pond drainage basin shall not exceed 27.24 acres.

e. The maximum amount of total impervious surface allowed for both development and redevelopment within both the Alum Pond and West Pond drainage basins together shall not exceed 37.92 acres.

f. The proposed construction, reconstruction, placement, or replacement of impervious surface shall not cause adverse water quantity impact and shall not cause adverse flooding impact to on-site and off-site properties.

g. The permittee shall complete construction of the proposed West Pond system authorized under this permit prior to construction, reconstruction, placement, or replacement of any impervious surface on any sites within the Alum Pond Drainage Basin and the West Pond Drainage Basin.

X 5. The permittee shall monitor water quality at Stations 1, 2, and 3 monthly for the variables indicated in the water quality monitoring plan received by the District on September 20, 1995.

The results of the monthly monitoring program must be submitted to the District annually by January 31 of each year using District Form EN-18, or an equivalent format approved by District staff.

6. The permittee may request a modification of the parameters and frequency of the monitoring program by demonstrating that the collected data represents steady state conditions and provides an adequate basis for evaluating the project's compliance with state water quality standards.

7. The permittee must record, and annually report, the number of times the injection system discharged an alum volume sufficient to shut-down the pumps automatically, the number of times the system shut down due to a pH measured of 6.5 or less or a lake elevation of 62.0 feet NGVD or greater, and the total volume of alum utilized annually.

Reviewers: Chou Fang
Evan Mcclung



BLACK & VEATCH
building a world of difference™

ENERGY • WATER • INFORMATION • GOVERNMENT

May 16, 2005

Mr. Chou Fang, Ph.D., P.E.
Department of Water Resources
St. Johns River Water Management District
4049 Reid Street
Palatka, FL 32178

Re: Lake Tuscawilla West Pond, Application #40-083-19634-6

Dear Mr. Fang,

Thank you for your consideration of this application for the Lake Tuscawilla West Pond. The response to your request for additional information is provided below and is identified in accordance with the numbers in the request.

1. As requested, 3 half-size sets of signed and sealed drawings and calculations are enclosed as Attachment A. The XP-SWMM model of the Lake Tuscawilla watershed was developed by CDM, as submitted in ERP 4-083-19634-3, and the determination of impervious area of the Lake Tuscawilla is incorporated into the model. Therefore, these calculations are not signed and sealed by Black & Veatch. Any subsequent calculations, including the XP-SWMM model run results, have been signed and sealed as part of this response.
2. Details to instruct the contractor on how to place the unconsolidated fill in relationship to the proposed clay liner and how to repair a solution pipe are included as Details F and G, respectively, on Drawing Y-4.
3. A figure showing post-development drainage basin to the Alum Pond is included as Attachment B.
4. Tracking tables are included as Attachment C. Additionally, one sheet of signed and sealed calculations of the new impervious area draining to the Alum Pond is included.
5. Question 5 has several parts, which are addressed below:
 - a. *Please indicate in the SWMM input and output listings the stage-area-storage curves of Lake Tuscawilla, Alum Pond, North Pond and the proposed West Pond; and the initial and peak stages in these receiving water bodies.*

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MAY 18 2005

The SWMM input of the stage-area-storage curves of the 4 water bodies is included as Attachment D.

Initial stages of the ponds are as follows:

- North Pond (1020J) = 61.00 feet
- Lake Tuscawilla (1001J) = 60.9 feet
- Alum Pond (1030J) = 60.9 feet
- West Pond (NWPond) = 61.4 feet

Output of the SWMM model Peak Stages (as shown in Table 4-2 of the ERP application) is provided here.

Water Body	Existing 100-Yr/24-Hr	With West Pond, No New Impervious				With West Pond, 38.42 Acres New Impervious			
		10 Yr/24-Hr	25 Yr/24-Hr	25 Yr/96-Hr	100 Yr/24-Hr	10 Yr/24-Hr	25 Yr/24-Hr	25 Yr/96-Hr	100-Yr/24-Hr
West Pond	N/A	63.13	63.78	64.31	64.96	63.91	64.71	65.37	66.16
Lake Tuscawilla	66.4	63.40	64.31	65.00	65.64	64.42	65.37	65.83	66.50
North Pond	66.4	64.15	66.19	66.19	65.63	64.16	65.30	65.82	66.50
Alum Pond	66.9	65.08	65.52	65.53	66.24	65.21	65.80	66.42	67.45

b. Model Calibration

CDM developed the initial XP-SWMM model and calibrated it based on a 1995 storm which was similar to a 10-year/24-hour storm. They described their calibration in a report to the City of Ocala on Lake Tuscawilla in 2002. An excerpt from this report is included in Attachment E.

While the infiltration rates may seem high, the horizontal permeability rates on the site, which are “C” soils, were tested at 25 and 16 feet/day. The test results are presented in the geotechnical study, which is included as Appendix B of the ERP application.

c. Permanent Pool calculation

The runoff coefficient (C) value of 0.73 that was applied in the Permanent Pool calculation was based on land use, which yields a conservative Permanent Pool requirement. The C value could have been calculated with a ratio of impervious area, which could result in a lower C value and might more closely parallel the hydraulic model. Because the tracking will be based on impervious area, the Permanent pool calculation will remain as submitted.

d. Drainage Wells

In the ERP application for Lake Tuscawilla submitted September 2002, on pages 3-2 and 3-3, CDM reported that the capacities of the drainage wells had been tested. These capacities are shown as maximum capacities Table 4-9 of the current ERP application. CDM applied a 25% reduction in the hydraulic model as a conservative measure because sometimes these types of wells have blockage. These reduced capacities were applied in the model runs by B&V.

Well	Maximum Capacity (gpm)	Reduced Capacity (gpm)
DW-5	2,700	2,020
DW-6	3,400	2,549
DW-7	3,400	2,549
DW-9	3,400	2,558
DW-10	4,000	2,996
DW-12	5,400	4,008

This response is respectfully submitted to address all your questions.

If you have any questions, please contact me at (904) 997-7113.

Sincerely,



Heather Cavanagh
Project Engineer
Black & Veatch

cc: Mr. Bruce H. Phillips, P.E., P.L.S.

Enclosure

ATTACHMENT A

5. *Runoff hydrograph(s) for each drainage basin, for all required design storm event(s)*

See Appendix D for hydrographs for the four storm events.

6. *Stage-storage computations for an areas such a as a reservoir, close basin, detention area, or channel, used in storage routing*

The stage-storage relationship for the West Pond is shown in the table below.

Elevation	Area (sf)	Area (acres)	Volume (acre-ft)	Cumulative Volume (acre-ft)
57.00	184,457	4.235	0.00	0.00
58.00	195,838	4.496	4.37	4.37
59.00	207,406	4.761	4.63	8.99
60.00	219,169	5.031	4.90	13.89
61.00	231,124	5.306	5.17	19.06
62.00	243,297	5.585	5.45	24.50
63.00	255,518	5.866	5.73	30.23
64.00	267,458	6.140	6.00	36.23
65.00	280,318	6.435	6.29	42.52
66.00	293,738	6.743	6.59	49.11

7. *Flood routings through on-site conveyance and storage areas*

Flood routings are identified in the model results in Appendix D.

8. *Water surface profiles in the primary drainage system for each required design storm event(s)*

Water surface profiles for each storm event are summarized in the table below.

Water Body	Existing 100-Yr/ 24-Hr	With West Pond, No New Impervious				With West Pond, 38.42 Acres New Impervious			
		10 Yr/ 24-Hr	25 Yr/ 24-Hr	25 Yr/ 96-Hr	100 Yr/ 24-Hr	10 Yr/ 24-Hr	25 Yr/ 24-Hr	25 Yr/ 96-Hr	100-Yr/ 24-Hr
West Pond	N/A	63.13	63.78	64.31	64.96	63.91	64.71	65.37	66.16
Lake Tusawilla	66.4	63.40	64.31	65.00	65.64	64.42	65.37	65.83	66.50
North Pond	66.4	64.15	66.19	66.19	65.63	64.16	65.30	65.82	66.50
Alum Pond	66.9	65.08	65.52	65.53	66.24	65.21	65.80	66.42	67.45

1. *Impervious surfaces, excluding wetlands.*
2. *Pervious surfaces (green areas not including wetlands)*
3. *Lakes, canals, retention areas, other open water areas*
4. *Wetlands.*

Total impervious area for the Lake Tusawilla watershed is 121.1 acres which is 29 percent of the total watershed. Appendix E identifies the impervious area of each of the sub-basins. The table below describes the current impervious area of the sub-basins for which the runoff will be re-routed from the Alum Pond to the West Pond.

Sub-basin	Area (acres)	Percent Impervious	Impervious Area (acres)
11003	10.0	20.0%	2.00
11006	4.0	25.4%	1.02
110061	1.0	10.0%	0.10
110062	0.8	25.0%	0.20
11007	3.0	32.0%	0.96
16000	30.0	74.0%	22.20
16001	3.0	25.4%	0.76
Total	51.8		27.24

After the construction of the West Pond, the impervious area will change slightly with the creation of the new wet detention area. Also, the pond is constructed in a portion of Sub-basin 11002.

Sub-Basin	Area (acres)	Impervious %	Impervious (acres)	Pond Area (acres)
11002	3.5	0.0%	0.00	2.50
11003	10.0	20.0%	1.50	4.24
11006	4.0	25.4%	1.02	
110061	1.0	10.0%	0.10	
110062	0.8	25.0%	0.20	
11007	3.0	32.0%	0.96	
16000	30.0	74.0%	22.20	
16001	3.0	25.4%	0.76	
Totals	55.3	48.4%	26.74	6.74

The impervious area, not including the pond will be 26.74 acres. The area of the pond is approximately 6.74 acres.

There are no wetlands on the site.

D. Floodplain

Provide an engineering analysis of floodplain storage and conveyance (if applicable)

Storage and conveyance results are shown in Appendix D.

E. Water Quality Treatment

Provide an analysis of the water quality treatment system including:

1. *A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis*

The following treatment parameters are described below:

- Water Quality Treatment Volume
- Permanent Pool Volume
- Orifice Design for Recovery

a. Water Quality Treatment Volume

For wet detention systems, the water quality treatment volume must be the greater of the following:

- One inch of runoff over the drainage area
- 2.5 inches times the impervious area (excluding water bodies).

The required treatment volume for the West Pond is shown in the table below.

Total Contributing Area (acres)	55.3
Pond Area (acres)	6.74
Impervious Area (acres)	26.74
1 inch over total Area (acre-ft)	4.61
2.5 inches over Impervious Area (acre-ft)	5.57

The required treatment volume for the pond is 5.57 acre-feet.

The West Pond normal water level will be at elevation 61.40 and the top of the treatment volume will be at 63.10. The provided water quality treatment volume for the pond is 7.90 acre-feet as shown in the table below.

Elevation	Area (sf)	Area (acres)	Volume (acre-ft)	Cumulative Volume. (acre-ft)
61.40	235,993	5.418	-	-
62.00	243,297	5.585	3.30	3.30
63.00	255,518	5.866	4.01	7.31
63.10	260,294	5.976	0.59	7.90

The pond will have 2.33 acre-feet of excess treatment volume. At a rate of 2.5 inches per impervious acre, the pond has treatment capacity for an additional 11.18 acres of impervious area. Total additional impervious area would be 38.42 acres: 27.24 acre-feet to the Alum Pond and 11.18 acre-feet to the West Pond. Of the 38.42 acres, 0.5 acres were impervious area existing on the pond site and 37.92 acres is new impervious due to the West Pond.

b. Permanent Pool Volume

The permanent pool of the wet detention area must be able to store 14 days of rainfall during the wet season. In Ocala, the rainfall during the wet season is 30 inches and the wet season is 153 days (June through October). The required permanent pool volume (PPV) for is shown in the table below.

Parameter	Value
Drainage Area (ac)	55.3
Runoff Coefficient (C)	0.73
Wet Season Rainfall (In)	30
Wet Season Duration (days)	153
Required Residence Time (days)	14
Permanent Pool Volume Required (acre-feet)	9.23
Multiply by 1.5 for no littoral zone	x 1.5
Total PPV Required (acre-feet)	13.85

See Appendix F for the Permanent Pool Volume calculations.

The West Pond will have a bottom elevation of 57.0 and a normal water elevation of 61.4. The Permanent Pool Volume Provided is shown in the table below.

Elevation	Area (acres)	Volume (Acre-ft)	Cumulative Volume (Acre-ft)
57.00	4.235	-	-
58.00	4.496	5.42	5.42
59.00	4.761	5.13	10.55
60.00	5.031	5.13	10.55
61.00	5.306	5.00	15.55
61.40	5.418	2.17	17.72

The Permanent Pool Volume Provided is 17.72 acre-feet, which is greater than the required 13.85 acre-feet. Therefore, the pond can accommodate some growth in the contributing basin. The mean depth, calculated by the Permanent Pool Volume divided by the area at the control elevation, is 3.27 feet, which falls in the required range of 2 to 8 feet.

c. Orifice Sizing for Recovery

The orifice was sized so that the West Pond could recover half the required treatment volume (half of 5.52 acre-feet) in 48 hours. It will be 5.8 inches in diameter. Appendix G presents the orifice calculations.

2. Water Quality

Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with appropriate water quality treatment criteria.

The construction plans indicate the contours of the pond and the control elevations are consistent with the treatment requirements as described above.

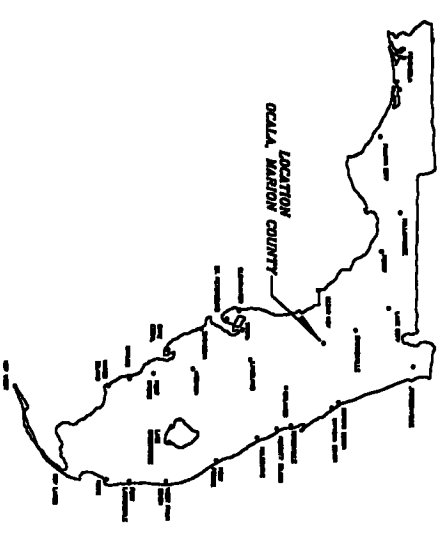
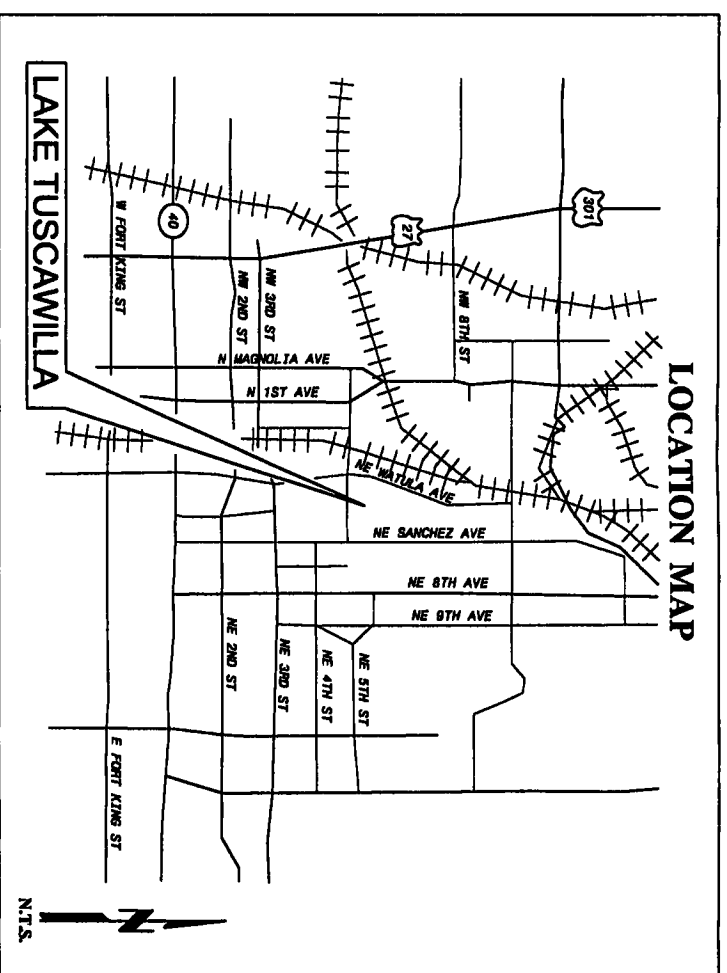
F. Supporting Information

Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for the model selection.

CITY OF OCALA LAKE TUSCAWILLA WEST POND

BID NO.

MAY 2005



Ocala-Marion County



DRAWING INDEX

GENERAL

G-1 COVER SHEET
LEGENDS AND ABBREVIATIONS

YARDWORK

- Y-1 EXISTING SITE CONDITIONS
- Y-2 DEMOLITION PLAN
- Y-3 WET DETENTION POND - GRADING AND DRAINAGE PLAN
- Y-4 SECTIONS AND DETAILS
- Y-5 EROSION CONTROL DETAILS



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CORPORATION

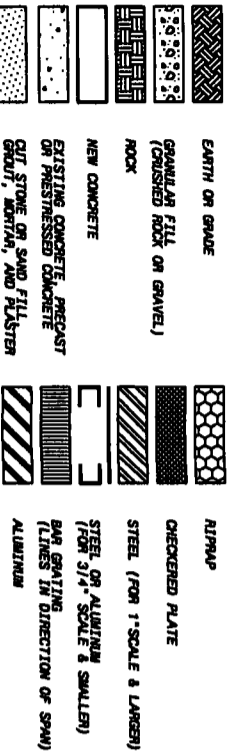
10751 Deerwood Park Boulevard
Suite 1300
Jacksonville, Florida 32256
Certificate No. 8132

B&V PN 136580

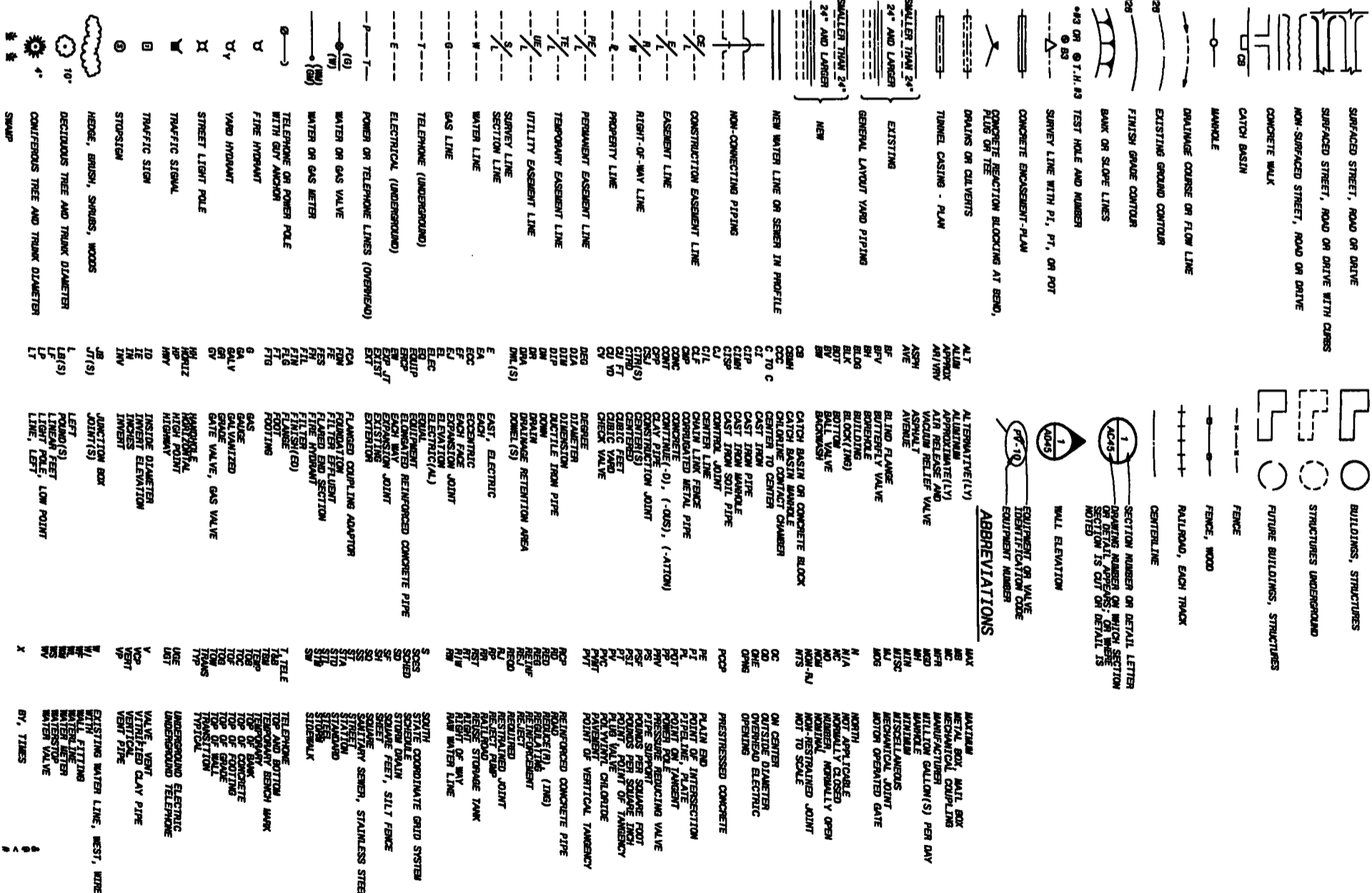
GENERAL NOTES

- 1. CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY OF OCALA STANDARD SPECIFICATIONS, VOLUME I, "GENERAL CONDITIONS FOR CONSTRUCTION", VOLUME II, "STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION", AND VOLUME III, "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION". IN CASE OF CONFLICTING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
2. NO CHANGE TO THE WORK AS SHOWN IN THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. WHEN OPERATING OUTSIDE OF THE CITY OF OCALA RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE PROPER NOTIFICATION AND OBTAIN WRITTEN PERMISSION TO DO SO FROM THE OWNER OF EACH AFFECTED PROPERTY.
4. THE CONTRACTOR IS TO MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE CONSTRUCTION PROCESS FOR ALL ADJACENT PROPERTY OWNERS.
5. ALL PIPE LENGTHS SHOWN ON PLANS AND PROFILES ARE FROM CENTER TO CENTER OF STRUCTURES, EXCEPT INTERFERED ENDS. INVERT ELEVATIONS SHOWN ON THE DRAWINGS REFER TO CENTER LINE OF STRUCTURE UNLESS OTHERWISE NOTED.
6. UNSUITABLE MATERIAL SHALL BE EXCAVATED BELOW PIPE AS FOLLOWS:
LESS THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 2 FEET BELOW PIPE.
MORE THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 1 FOOT BELOW PIPE.
7. THE LOCATION OF ALL EXISTING UTILITIES, FACILITIES, AND ANY OTHER FEATURES SHOWN ON THESE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE LOCATION INFORMATION PROVIDED. ANY INACCURACY OR OMISSION IN SUCH INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT SUCH EXISTING FEATURES FROM DAMAGE OR UNSCHEDULED INTERFERENCE OF SERVICE. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY.
8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND CAREFULLY WORK WITH AND AROUND ALL UTILITIES, OTHER STRUCTURES, AND OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4170) FOR FIELD LOCATIONS 48 HOURS IN ADVANCE BEFORE DIGGING NEAR UNDERGROUND UTILITIES.
10. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY UTILITY CONTRACTS AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION INVOLVING THEIR UTILITIES TO ALLOW UTILITY RELOCATIONS AND INSTALLATION OF FACILITIES, SUCH AS CONDUIT CROSSINGS FOR FUTURE USE. THESE SHALL BE DONE BY THE RESPECTIVE UTILITY OWNER.
11. COORDINATION TO AVOID POSSIBLE CONFLICTS BETWEEN WATERLINES, PRESSURE MAINS, GRAVITY SEWERS, AND OTHER CONSTRUCTION UNDER THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 6-INCH CLEARANCE OR AS NOTED BETWEEN ALL UTILITIES. NO SPECIAL PAYMENT IS ALLOWED.
13. THE APPLICATION OF APPROPRIATE EROSION CONTROL DEVICES AND PRACTICES WILL BE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE CITY OF OCALA, VOLUME II, STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, 1999, SECTION 104.
14. THE SITE SHALL REMAIN FREE OF EXCESS DIRT AND DEBRIS AT ALL TIMES. ANY INCIDENT OF EROSION, SEDIMENTATION, DUST, OR DEBRIS OCCURRING OFF-SITE AS A RESULT OF CONSTRUCTION ACTIVITIES ON THIS PROJECT SHALL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER FOR CONDUCTING THE FOLLOWING DESCRIBED WORK: EXISTING SECTION CORNERS, 1/2 SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS INCLUDING INDIVIDUAL LOT CORNERS. LOCATED WITHIN PROPOSED CONSTRUCTION AREA TO BE REFERENCED PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION, IN ACCORDANCE WITH CHAPTERS 177 AND 472 OF THE FLORIDA STATUTES AND 61617 OF THE FLORIDA ADMINISTRATIVE CODE.

MATERIALS LEGEND



GENERAL LEGEND



ABBREVIATIONS

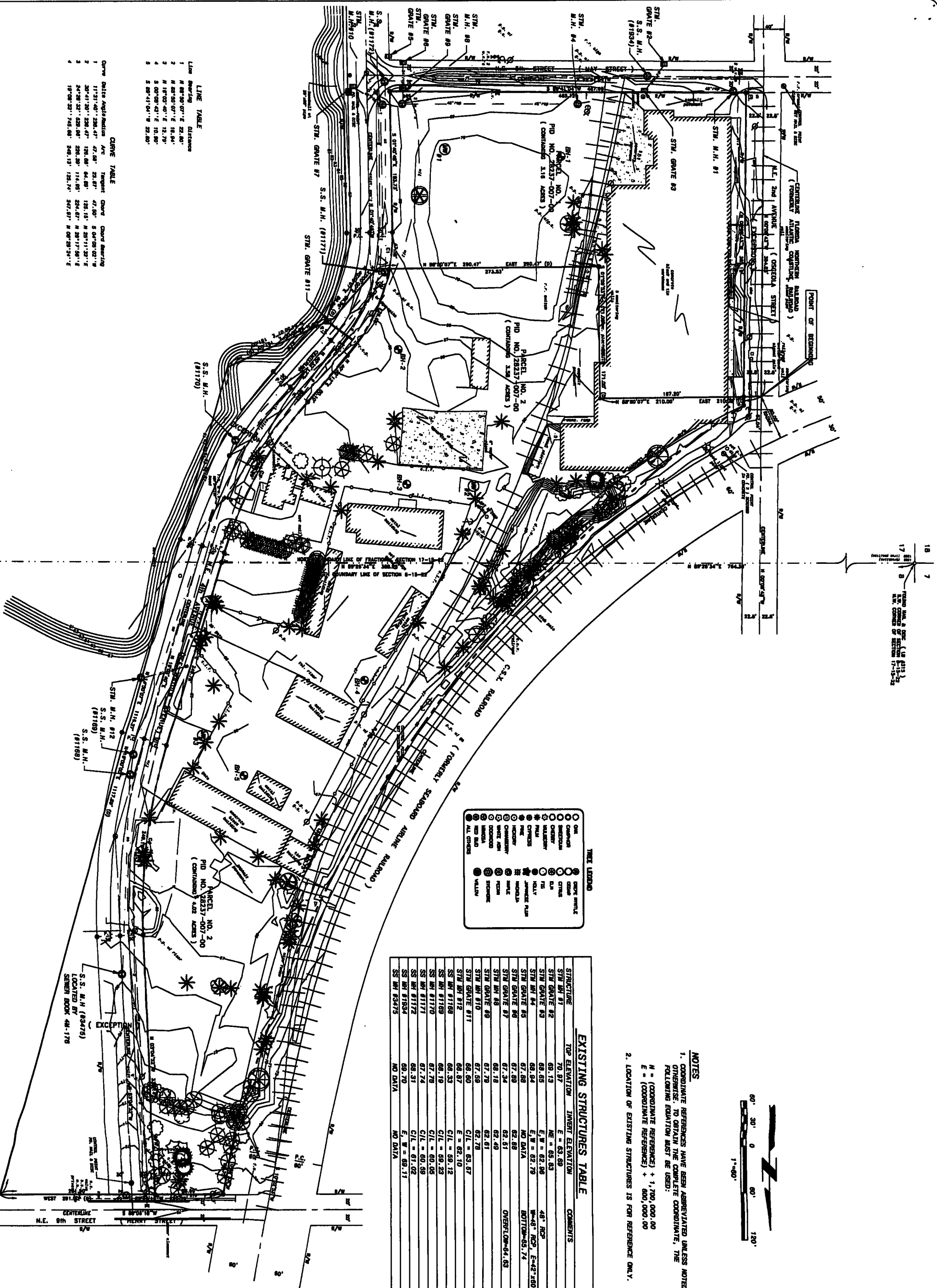
Table with columns for abbreviations and their corresponding full names, including terms like ALTERNATIVE, APPROX, ASPHALT AVENUE, BUILDINGS, STRUCTURES, and various pipe materials.

DESIGNED: JVC
CHECKED: VVV
DATE:
PROJECT NO. 1365880

CITY OF OCALA
LAKE TUSCAWILLA
WEST POND
GENERAL
GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

BLACK & VEATCH Corporation logo and address: 10751 Deerwood Park Boulevard, Suite 130, Jacksonville, Florida 32256, Certificate No. 8132

Table with columns for DATE, REVISIONS AND RECORD OF ISSUE, and SHEET OF G-1.



LINE TABLE

Line Number	Starting Station	Ending Station	Distance
1	11+31.48	12+38.47	106.99'
2	12+38.47	13+45.46	106.99'
3	13+45.46	14+52.45	106.99'
4	14+52.45	15+59.44	106.99'
5	15+59.44	16+66.43	106.99'

CURVE TABLE

Curve No.	Stationing	Radius	Delta Angle	Chord	Curve Length	PC	PIC	PT	Chord
1	11+31.48	1150.00'	47.50°	53.45'	106.99'	11+31.48	11+55.48	11+85.48	53.45'
2	12+38.47	1150.00'	47.50°	53.45'	106.99'	12+38.47	12+62.47	12+92.47	53.45'
3	13+45.46	1150.00'	47.50°	53.45'	106.99'	13+45.46	13+72.46	14+02.46	53.45'
4	14+52.45	1150.00'	47.50°	53.45'	106.99'	14+52.45	14+79.45	15+09.45	53.45'
5	15+59.44	1150.00'	47.50°	53.45'	106.99'	15+59.44	16+16.44	16+46.44	53.45'

TREE LEGEND

○	CHERRY
○	ORANGE
○	ST. PAULI
○	WALNUT
○	BIRCH
○	PINE
○	YEW
○	DOGWOOD
○	WHITE OAK
○	SLY
○	WATER OAK
○	RED BAY
○	RED LAUREL
○	ALL OTHERS
○	GRAPE VINE
○	WATER LILY
○	LAUREL
○	ELM
○	CITRUS
○	FLORIDA PALM
○	HOLLY
○	JASMINE PLUM
○	DOGWOOD
○	WATER OAK
○	SLY
○	WATER OAK
○	SLY

EXISTING STRUCTURES TABLE

STRUCTURE	TOP ELEVATION	INVERT ELEVATION	COMMENTS
STN. WH #1	70.97	E = 63.89	
STN. GRATE #2	69.13	E = 65.83	
STN. GRATE #3	69.65	E.W. = 62.98	48" RCP E-42' 100"
STN. WH #4	69.94	E.W. = 62.78	48" RCP E-42' 100"
STN. GRATE #5	67.89	NO DATA	80" RCP E-57' 74"
STN. GRATE #6	67.34	62.61	OVERFLOW-54' 63"
STN. WH #8	68.18	62.49	
STN. GRATE #9	67.78	62.61	
STN. WH #10	67.68	62.78	
STN. GRATE #11	66.60	C.I.L. = 63.87	
STN. WH #12	66.87	E = 62.10	
SS WH #1189	66.33	C.I.L. = 60.12	
SS WH #1189	66.19	C.I.L. = 60.28	
SS WH #1170	67.74	C.I.L. = 60.65	
SS WH #1172	68.31	C.I.L. = 61.02	
SS WH #1924	69.70	E.W. = 68.71	
SS WH #2475	NO DATA	NO DATA	

NOTES

- COORDINATE REFERENCES HAVE BEEN ABBREVIATED UNLESS NOTED OTHERWISE. TO OBTAIN THE COMPLETE COORDINATE, THE FOLLOWING EQUATION MUST BE USED:
 N = (COORDINATE REFERENCE) + 1,700,000.00
 E = (COORDINATE REFERENCE) + 600,000.00
- LOCATION OF EXISTING STRUCTURES IS FOR REFERENCE ONLY.



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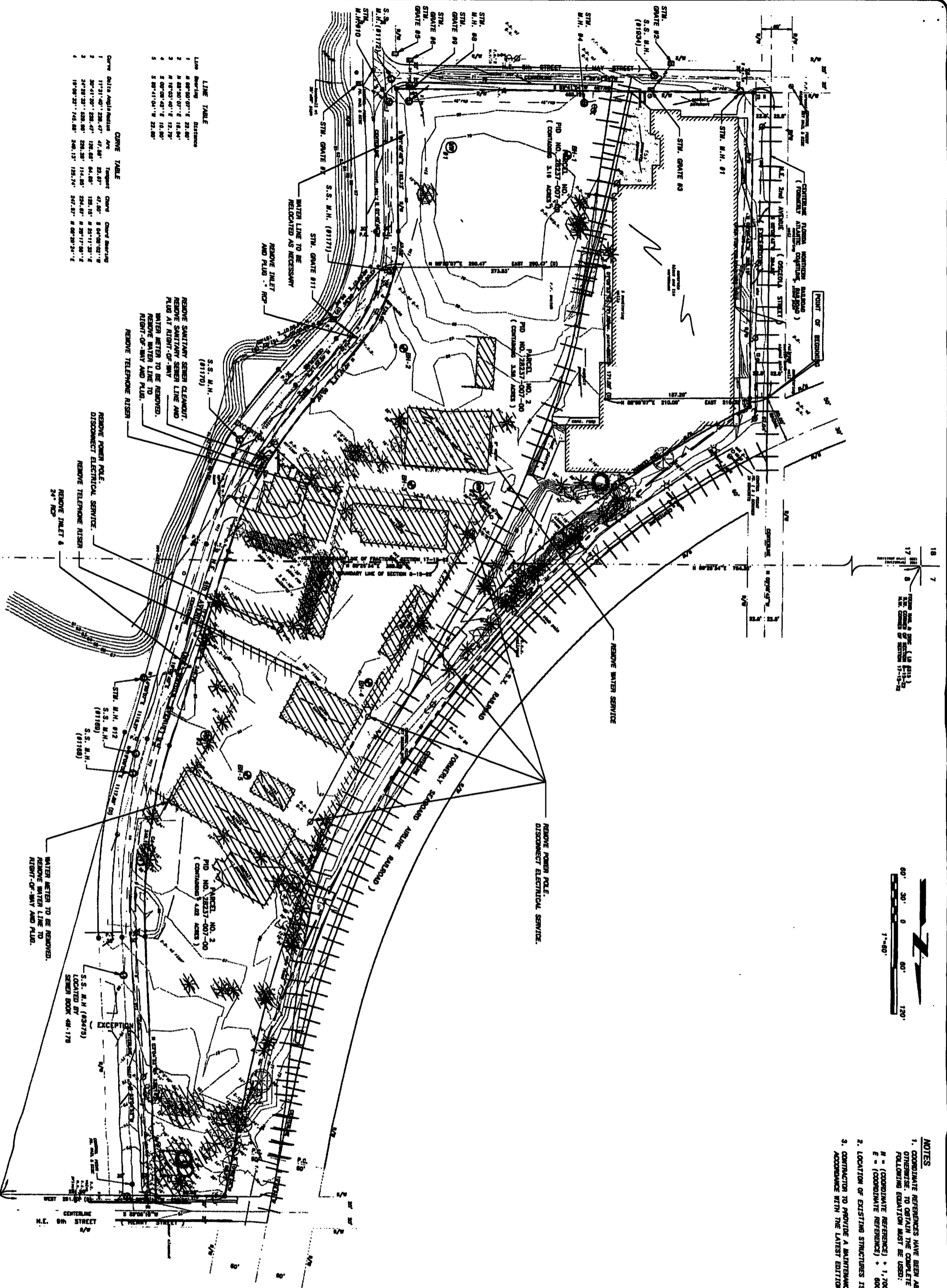
136580
PROJECT NO.

CITY OF OCALA
LAKE TUSCAWILLA
WEST POND
GENERAL
EXISTING SITE CONDITIONS



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP
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	DWD VER 2:	XREF3 ID:			
	PLOTTED: NAKS1464, 3/10/2006 3:13:18 PM	XREF4 ID:			
	USER: NAKS1464	XREF5 ID:			
	SW: ACAD-20001	XREF6 ID:			

Y-1
SHEET
OF



LINE TABLE

Line	Starting	Ending	Distance
1	11+31.40'	12+26.47'	95.07'
2	12+26.47'	13+21.54'	95.07'
3	13+21.54'	14+16.61'	95.07'
4	14+16.61'	15+11.68'	95.07'
5	15+11.68'	16+06.75'	95.07'

CURVE TABLE

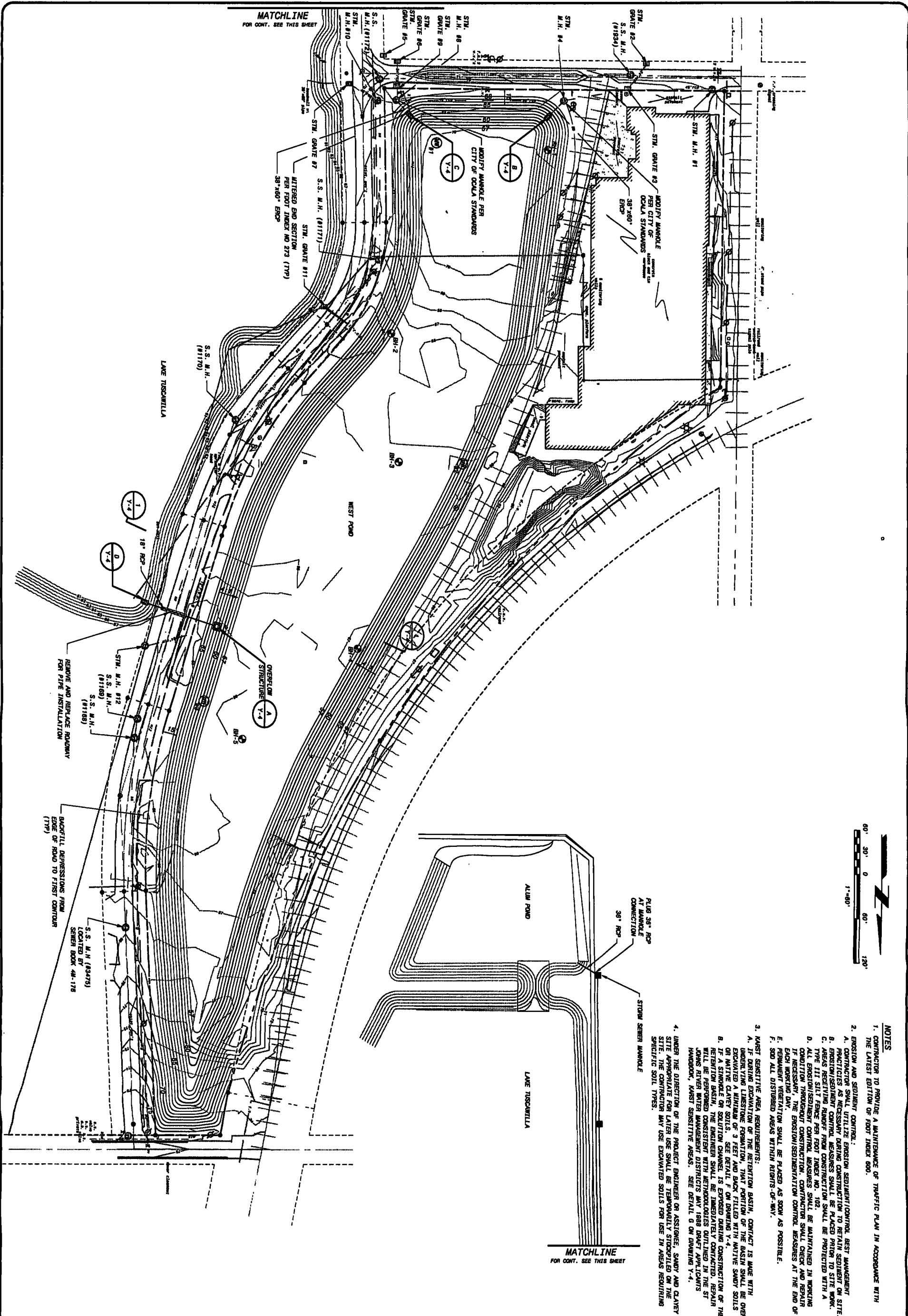
Curve	Delta Angle/Radius	Arc	Tangent	Chord	Chord Bearing
1	11°31'40" / 226.47'	95.07'	23.87'	47.80'	S 64°08'02" W
2	20°41'30" / 226.47'	95.07'	23.87'	47.80'	S 64°08'02" W
3	24°28'32" / 226.47'	95.07'	23.87'	47.80'	S 64°08'02" W
4	18°08'32" / 226.47'	95.07'	23.87'	47.80'	S 64°08'02" W

18
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POINT OF BEGINNING
N.E. 3RD AVENUE (CONVEYANCE PLAT 158795)
N.E. 4TH AVENUE (CONVEYANCE PLAT 158795)
N.E. 5TH AVENUE (CONVEYANCE PLAT 158795)
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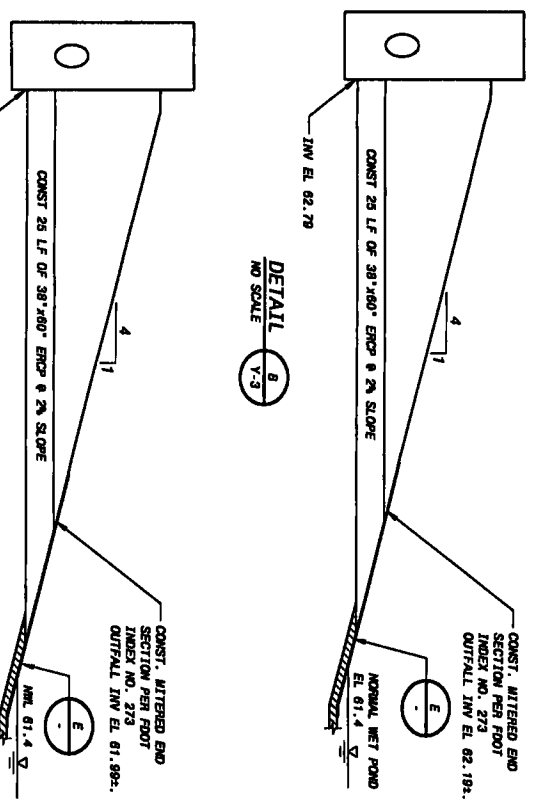
- NOTES**
1. COORDINATE REFERENCES HAVE BEEN ABBREVIATED UNLESS NOTED OTHERWISE. TO OBTAIN THE COMPLETE COORDINATE, THE FOLLOWING EQUATION MUST BE USED:
N = (COORDINATE REFERENCE) + 1,700,000.00
E = (COORDINATE REFERENCE) + 600,000.00
 2. LOCATION OF EXISTING STRUCTURES IS FOR REFERENCE ONLY.
 3. CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE LATEST EDITION OF FDOT JNCR 600.

<p>CITY OF OCALA LAKE TUSCAWILLA WEST POND</p> <p>YARDWORK DEMOLITION PLAN</p>	<p>BLACK & VEATCH Corporation 10761 Deerwood Park Boulevard Suite 130 Jacksonville, Florida 32256 Certificate No. 6132</p>	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP	
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PROJECT NO. 136580	PROJECT NO. 136580	USER: HANS1454	DR: ACAD-20001					

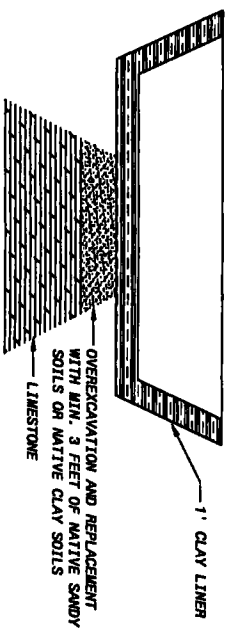
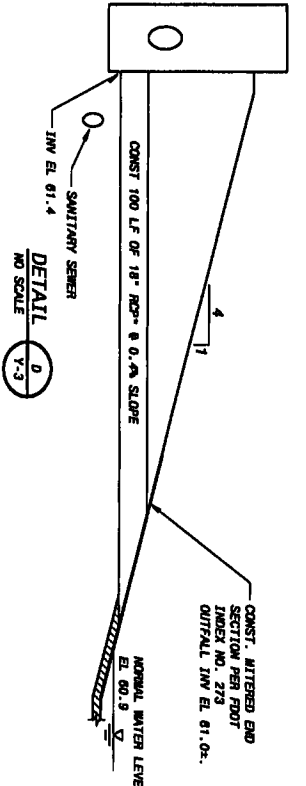


- NOTES**
1. CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT INDEX 600.
 2. EROSION AND SEDIMENT CONTROL:
 - A. CONTRACTOR SHALL UTILIZE EROSION SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP) DURING CONSTRUCTION TO PREVENT SEDIMENT ON SITE.
 - B. BARRIERS (NETS) SHALL BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING WEST POND.
 - C. TYPE III SILT FENCE PER FOOT INDEX NO. 102, SHALL BE MAINTAINED IN WORKING CONDITION THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL CHECK AND REPAIR IF NECESSARY, THE EROSION/SEDIMENTATION CONTROL MEASURES AT THE END OF EACH WORKING DAY.
 - D. PERMANENT VEGETATION SHALL BE PLANTED AS SOON AS POSSIBLE.
 - E. SOO ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY.
 3. KARST SENSITIVE AREA REQUIREMENTS:
 - A. IF DURING EXCAVATION OF THE RETENTION BASIN, CONTACT IS MADE WITH UNDERLYING KARSTIC FORMATION, THAT PORTION OF THE BASIN SHALL BE OPEN EXCAVATED TO A MINIMUM OF 3 FEET ABOVE THE KARSTIC SANDY SOILS.
 - B. IF A SIGNATURE OR SOLUTION CHANNEL IS EXPOSED DURING CONSTRUCTION OF THE RETENTION BASIN, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED. REPAIR WILL BE PERFORMED CONSISTENT WITH METHODOLOGIES OUTLINED IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICTS MAY 1988 DRAFT APPLICATION HANDBOOK, KARST SENSITIVE AREAS. SEE DETAIL G ON DRAWING Y-4.
 4. UNDER THE DIRECTION OF THE PROJECT ENGINEER OR ASSIGNEE, SANDY AND CLAYEY SITE APPROPRIATE FOR LATER USE SHALL BE TEMPORARILY STOCKPILED ON THE SITE. THE CONTRACTOR MAY USE EXCAVATED SOILS FOR USE IN AREAS REQUIRING SPECIFIC SOIL TYPES.

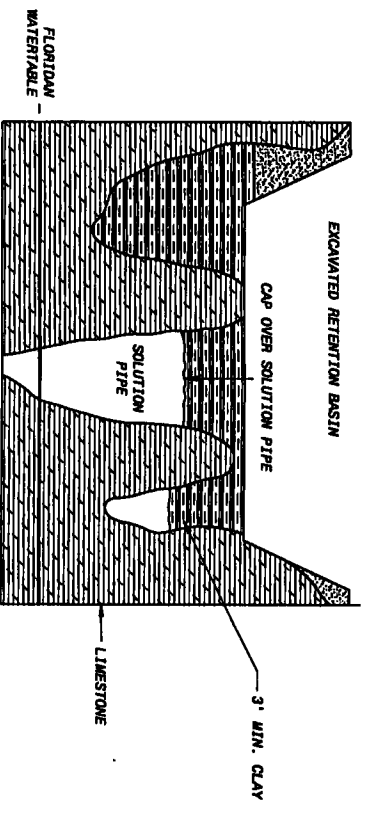
<p>CITY OF OCALA LAKE TUSCAWILLA WEST POND</p> <p>YARDWORK WET DETENTION POND GRADING AND DRAINAGE</p>	 <p>BLACK & VEATCH Corporation 10751 Deerwood Park Boulevard Suite 130 Jacksonville, Florida 32256 Certificate No. 6132</p>	<p>DESIGNED: JWC CHECKED: VVV APPROVED: _____ DATE: _____</p> <p>PROJECT NO. 136580</p> <p>SHEET Y-3 OF</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>REVISIONS AND RECORD OF ISSUE</th> <th>NO.</th> <th>BY</th> <th>CHK</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>CYDNET ID: 136580-3000-342-C-E0000600Y</td> <td></td> <td>XREF1 ID: 136580-0000-342-C-E0000600S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SAVED: R0531473, 3/10/2005 2:33:17 PM</td> <td></td> <td>XREF2 ID:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DWG VER #:</td> <td></td> <td>XREF3 ID:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PLOTTED: CAV32683, 6/10/2005 2:38:03 PM</td> <td></td> <td>XREF4 ID:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>USER: R0531473</td> <td>SW: ACAD-2000I</td> <td>XREF5 ID:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP	CYDNET ID: 136580-3000-342-C-E0000600Y		XREF1 ID: 136580-0000-342-C-E0000600S				SAVED: R0531473, 3/10/2005 2:33:17 PM		XREF2 ID:				DWG VER #:		XREF3 ID:				PLOTTED: CAV32683, 6/10/2005 2:38:03 PM		XREF4 ID:				USER: R0531473	SW: ACAD-2000I	XREF5 ID:			
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP																																		
CYDNET ID: 136580-3000-342-C-E0000600Y		XREF1 ID: 136580-0000-342-C-E0000600S																																					
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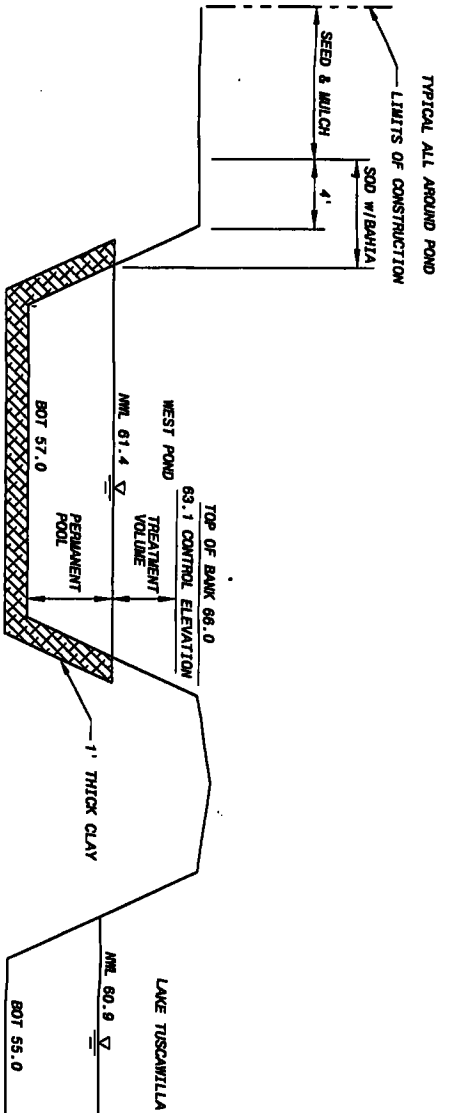
DETAIL C NO SCALE Y-3



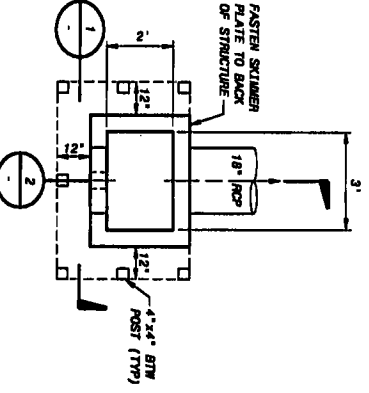
LIMEROCK REPLACEMENT NO SCALE F



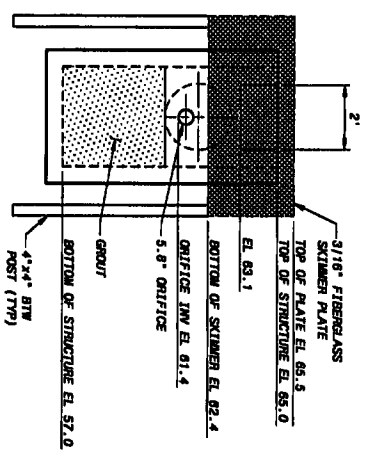
SOLUTION PIPE CAP DETAIL NO SCALE G



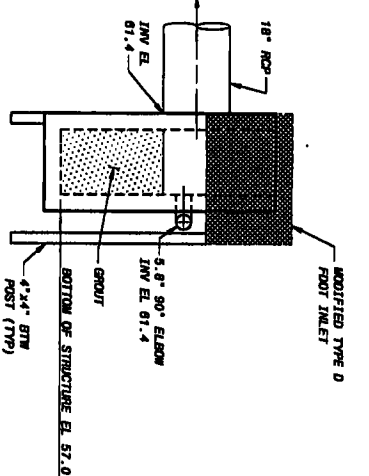
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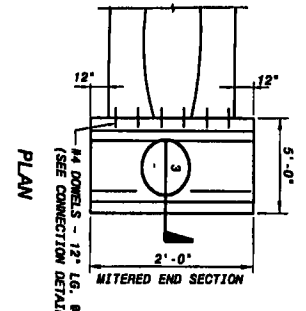
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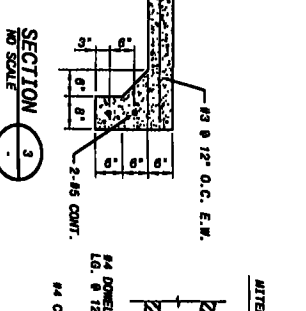
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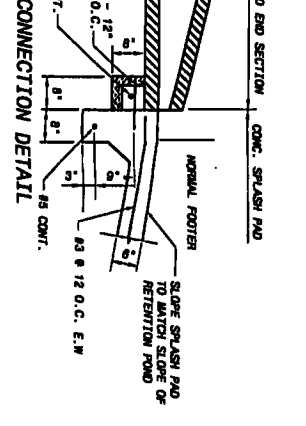
SECTION 2 NO SCALE



PLAN



SECTION 3 NO SCALE



MITERED END SECTION SPLASH PAD DETAIL E

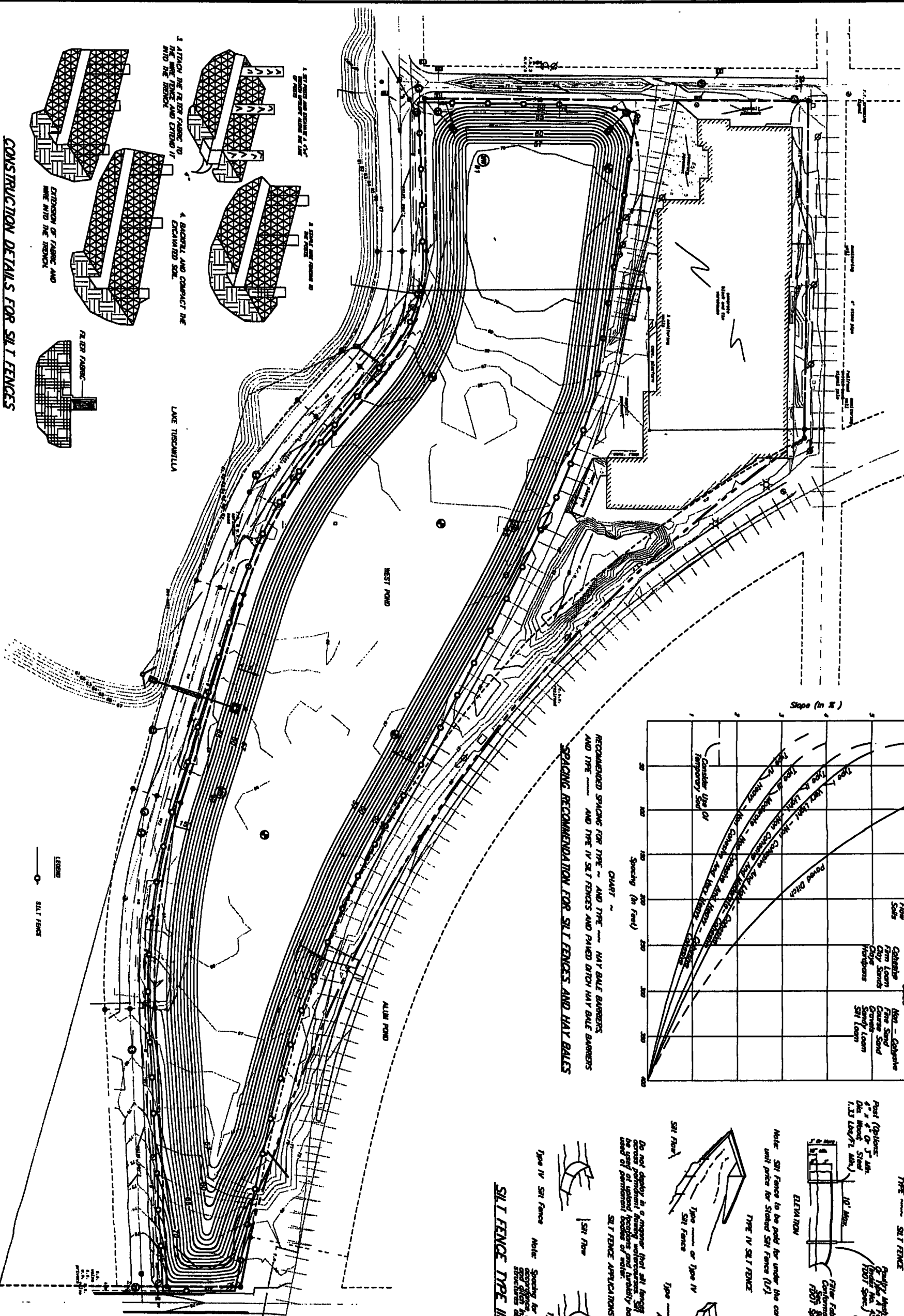
CITY OF OCALA
LAKE TUSCAWILLA
WEST POND
YARDWORK
WET DETENTION POND
DETAIL AND SECTIONS

BLACK & VEATCH
Corporation
10751 Deerwood Park Boulevard
Suite 130
Jacksonville, Florida 32256
Certificate No. 8132

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP

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USER: DL30124	SY: ACAD-2000L
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DESIGNED: HPC	PROJECT NO. 136580
CHECKED: RLK	DATE: Y-4
APPROVED:	SHEET OF



CONSTRUCTION DETAILS FOR SILT FENCES

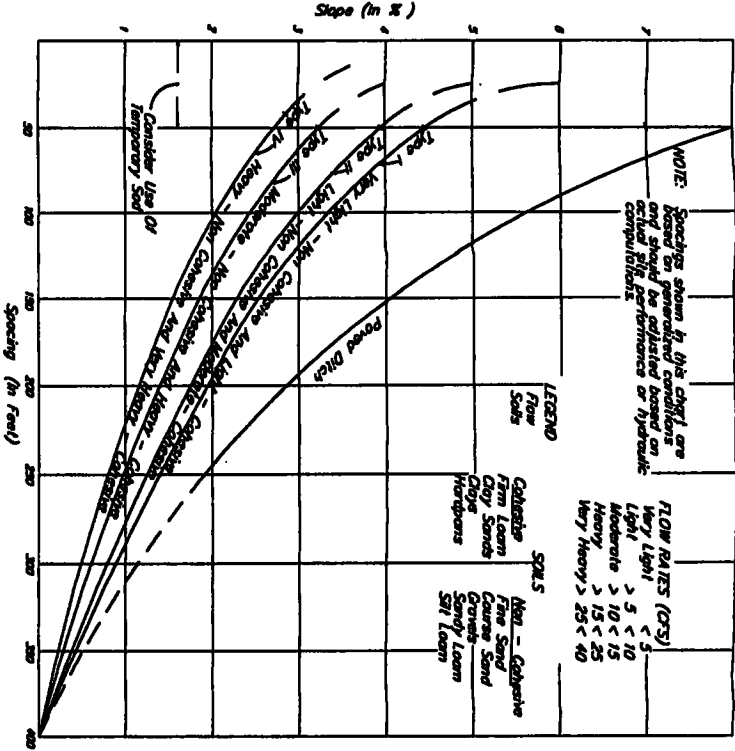
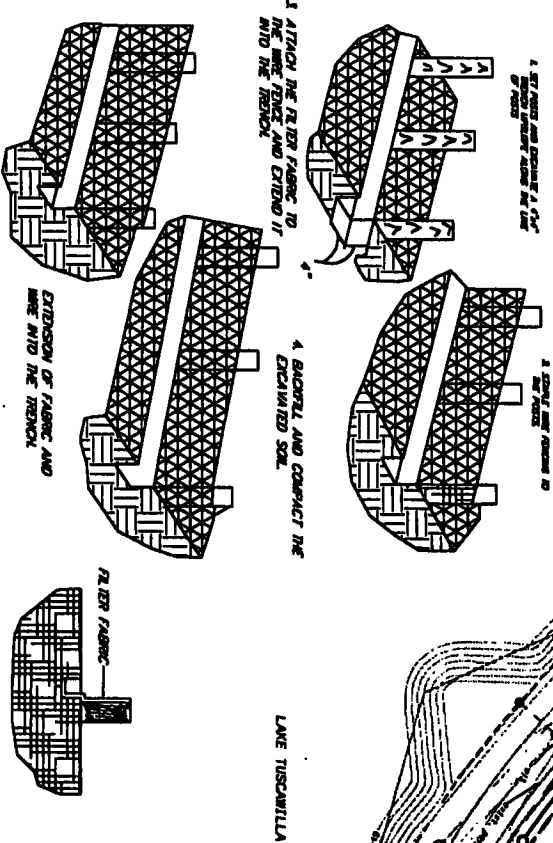
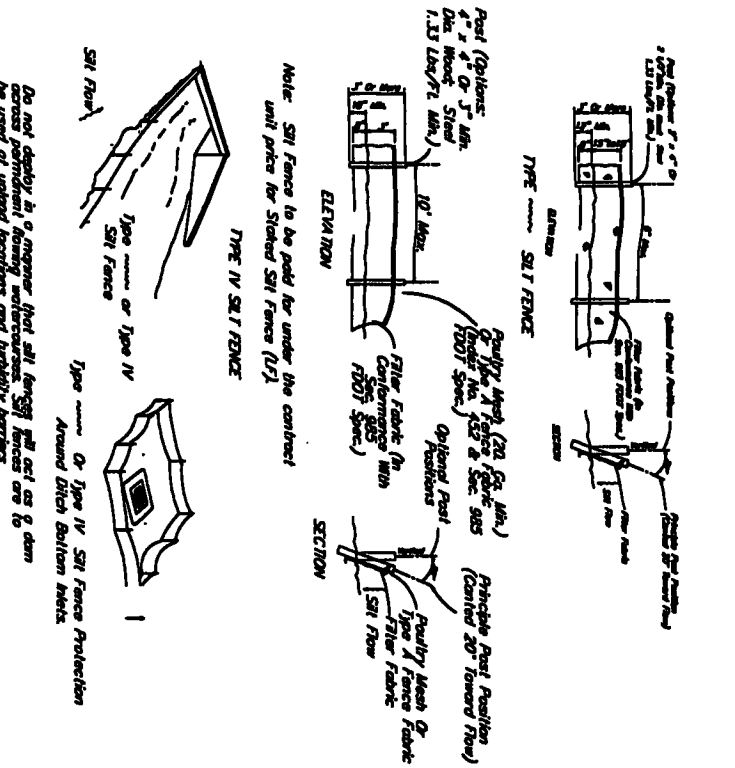


CHART -
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS AND TYPE III AND TYPE IV SILT FENCES AND PAVED DITCH HAY BALE BARRIERS
SPACING RECOMMENDATION FOR SILT FENCES AND HAY BALES



Do not double in a manner that all fences will act as a dam across permanent flowing watercourses. Silt fences are to be used only for upland locations and landward barriers. Silt Fence Applications

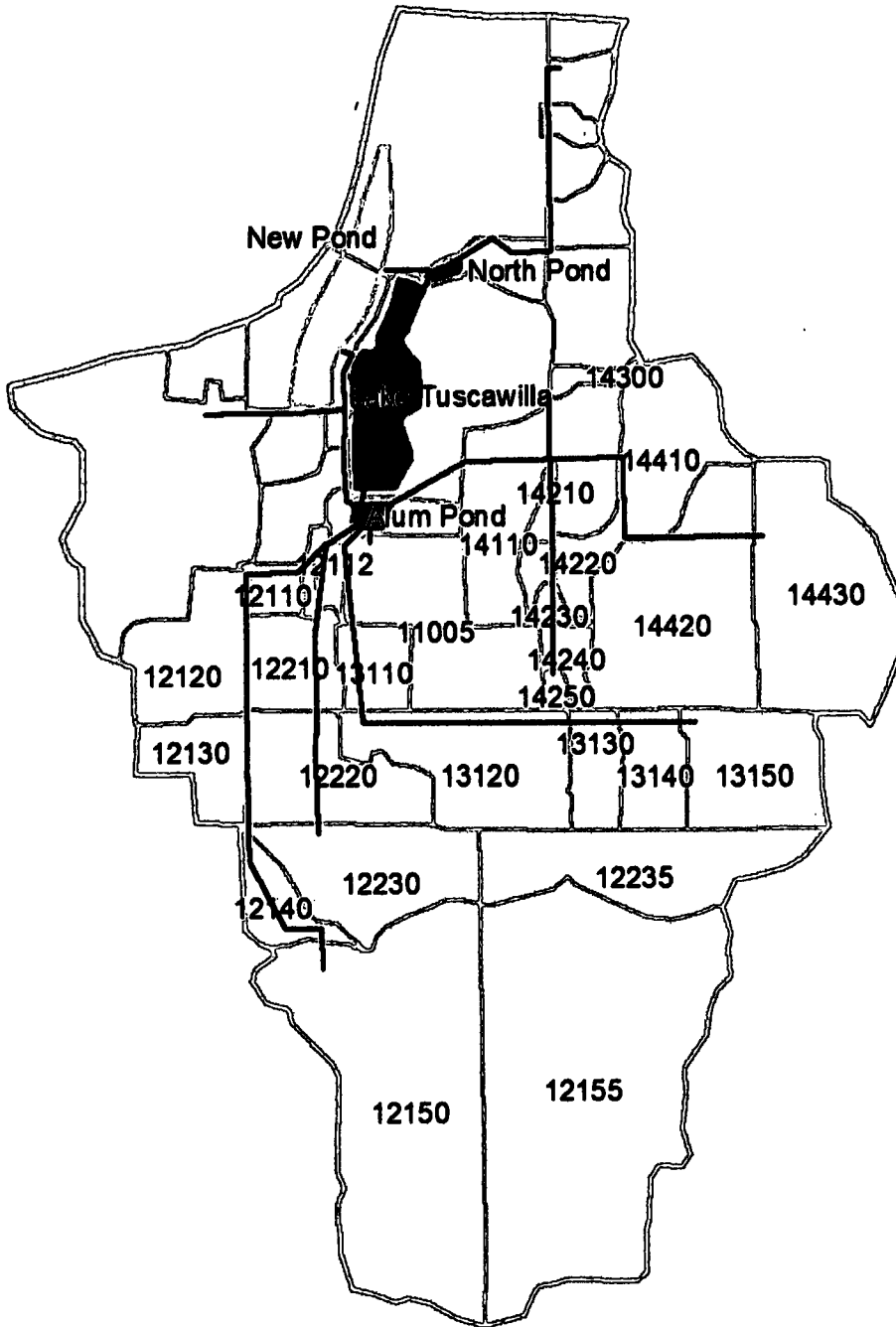
SILT FENCE TYPE III & IV

REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP
DATE				
DATE	3/10/2006	8:44:40 PM		
DATE	3/10/2006	8:44:45 PM		
DATE				

CITY OF OCALA
LAKE TUSCAWILLA
WEST POND
YARDWORK
EROSION CONTROL
DETAILS

BLACK & VEATCH
Corporation
10761 Deerwood Park Boulevard
Suite 130
Jacksonville, Florida 32256
Certificate No. 8132

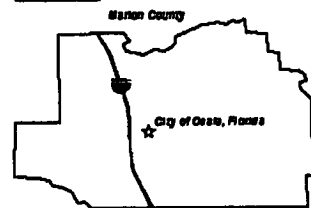
PROJECT NO.	136580
SHEET OF	Y-5
DATE	3/10/2006
BY	WV
CHKD	WV
APPD	WV
DATE	



Legend

- New Pond Boundary
- Lake Tusawilla Basin System
- Conveyance System
- Sub-basins to Alum Pond
- Watershed and Sub-basins Boundary

Location Map



Post Construction Drainage to Alum Pond Lake Tusawilla Watershed Lake Tusawilla Expansion City of Ocala, Florida



BLACK & VEATCH

City of Ocala
Lake Tuscaawilla Watershed
Tracking of Impervious Area
Alum Pond Drainage Basin

Date of Request	Project Description	Alum Pond Drainage Area (acres)	Alum Pond Impervious Area (acres)	Proposed Project Drainage Area (acres)	Proposed Project Impervious Area (acres)	Allowable Impervious Area (acres)	Remaining Impervious Area (acres)
		316.2	79.6	A	B	27.24	= 27.24 - B
		316.2	= 79.6 + B			= 27.24 - B	
		316.2					
		316.2					
		316.2					
		316.2					
		316.2					

City of Ocala
Lake Tuscaawilla Watershed
Tracking of Impervious Area
West Pond Drainage Basin

Date of Request	Project Description	West Pond Drainage Area (acres)	West Pond Impervious Area (acres)	Proposed Project Drainage Area (acres)	Proposed Project Impervious Area (acres)	Allowable Impervious Area (acres)	Remaining Impervious Area (acres)
		55.3	26.74	A	B	11.18	= 11.18 - B
		55.3	= 26.74 + B			+ 11.18 - B	
		55.3					
		55.3					
		55.3					
		55.3					
		55.3					

Draining to Alum Pond after West Pond

Lake Tuscawilla Sub-basin Characteristics				
Sub-basin	Load Point	Area (acres)	Impervious (%)	Impervious Area (acres)
11000	1001J	23.1	39.6	9.15
11001	N/A			
11002	N/A			
11003	N/A			
11004	1030J	2.6	28.7	0.75
11005	1031J	14.6	12.2	1.78
11006	N/A			
110061	N/A			
110062	N/A			
11007	N/A			
12110	11001J	2.1	75.0	1.58
12111	11010J	0.5	80.0	0.40
12112	11040J	1.6	75.0	1.20
12120	11010J	9.5	72.0	6.84
12130	11020J	5.6	70.0	3.92
12140	11030J	4.0	24.0	0.96
12150	11040J	40.9	15.9	6.50
12155	11040J	52.2	15.9	8.30
12210	12001J	6.2	78.0	4.84
12220	12030J	10.7	60.0	6.42
12230	12040J	12.5	29.0	3.63
12235	12040J	14.6	29.0	4.23
13110	13010J	4.1	21.0	0.86
13120	13020J	13.9	38.0	5.28
13130	13030J	4.0	47.0	1.88
13140	13040J	5.2	17.0	0.88
13150	13050J	10.6	24.0	2.54
14110	14010J	16.0	10.0	1.60
14210	14021J	0.9	52.0	0.47
14220	14022J	1.2	17.0	0.20
14230	14023J	1.0	39.0	0.39
14240	14024J	2.0	23.0	0.46
14250	14025J	0.7	74.0	0.52
14300	14030J	1.1	20.0	0.22
14410	14041J	12.9	5.0	0.65
14420	14042J	21.5	9.0	1.94
14430	14043J	20.4	6.0	1.22
15110	N/A			
15120	N/A			
15130	N/A			
15140	N/A			
15150	N/A			
15160	N/A			
16000	N/A			
16001	N/A			
Total		316.2		79.6

stage_area_storage_1t_ponds_final.txt

```

*=====
| Variable storage data for node |NWPond
*=====

```

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3
1	57.0000	0.0000	184476.6000	0.0000
2	58.0000	1.0000	195845.7600	190132.8517
3	59.0000	2.0000	207389.1600	391722.7683
4	60.0000	3.0000	219150.3600	604965.4984
5	61.0000	4.0000	231129.3600	830078.7968
6	62.0000	5.0000	243282.6000	1.067259E+06
7	63.0000	6.0000	255522.9600	1.316637E+06
8	64.0000	7.0000	267458.4000	1.578105E+06
9	65.0000	8.0000	280308.6000	1.851963E+06
10	66.0000	9.0000	293725.0800	2.138954E+06

```

*=====
| Variable storage data for node |10001J -- Lake Tusawilla
*=====

```

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3
1	64.2500	0.0000	43.5600	0.0000
2	71.2900	7.0400	43.5600	306.6624
3	71.3000	7.0500	435.6000	308.7188
4	72.0000	7.7500	40075.2000	10736.1354

```

*=====
| Variable storage data for node |1030J -- Alum Pond
*=====

```

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3
1	55.0000	0.0000	26484.4800	0.0000
2	56.0000	1.0000	26702.2800	26593.3057
3	57.0000	2.0000	26920.0800	53404.4120
4	58.0000	3.0000	27355.6800	80542.0006
5	59.0000	4.0000	27791.2800	108115.1939
6	60.0000	5.0000	28226.8800	136123.9916
7	61.0000	6.0000	29969.2800	165217.7233
8	62.0000	7.0000	32190.8400	196291.1648

stage_area_storage_lt_ponds_final.txt

9	63.0000	8.0000	34412.4000	229586.6080
10	64.0000	9.0000	37200.2400	265383.8805
11	65.0000	10.0000	39291.1200	303624.7968
12	66.0000	11.0000	41382.0000	343956.8401
13	67.0000	12.0000	43516.4400	386401.5876
14	68.0000	13.0000	47872.4400	432078.7155
15	70.0000	15.0000	51749.2800	531675.2811

 | Variable storage data for node |1020| -- North Pond

Data Point	Elevation ft	Depth ft	Area ft^2	Volume ft^3
1	61.0000	0.0000	12954.7440	0.0000
2	62.0000	1.0000	15071.7600	13999.9070
3	63.0000	2.0000	16857.7200	29956.3157
4	64.0000	3.0000	18730.8000	47742.3548
5	65.0000	4.0000	20647.4400	67423.6962
6	66.0000	5.0000	23086.8000	89279.4690
7	66.1000	5.1000	177376.3200	98094.6594
8	68.0000	7.0000	328224.6000	571123.4855

Section 4

Model Results

4.1 Introduction

The XPSWMM RUNOFF and EXTRAN models were used to predict flood stages for Lake Tusawilla for the 5-Year/24-Hour, 10-Year/24-Hour, 25 Year/24-Hour, 25 - Year/96-Hour, 50-Year/24-Hour, and 100-Year/24-Hour design storm events under existing hydraulic conditions. The 96-Hour design storm was added to be consistent with SJRWMD regulations for closed basins such as Lake Tusawilla. The results of these simulations are discussed below.

4.2 Model Calibration

The model was calibrated previously for the 1995 study and design. On August 30th, 2002, a significant rainstorm fell in the Ocala area causing some building flooding near the intersection of NE 3rd Street and NE Watula Avenue. City staff indicated the storm peak intensity was about 4-inches per hour which is similar to a ten-year/24-hour design storm peak intensity. The 10-year/24-hour design storm model was run and peak stages compared to observed values along 3rd Street. Based on the initial model run and City staff observations, two changes were made to the model:

- The effect of the skimmer was added to the overflow for the south pond to Lake Tusawilla to simulate staff observations that the south pond typically stages up about one-half to one foot higher than Lake Tusawilla for a short period during intense rainfall events.
- The local losses in the dual 36-inch outfall pipes were increased.

The calibration results are presented in Table 4-1.

Table 4-1
Peak Stages of Selected Junction for Calibration Storm

Junction	Structure	Stage (ft-NGVD)	Comment
1030J	South Pond	65.2	Estimated peak = 65.3
10001J	S-7/S-8	70.9	Overflow depth = 0.1 ft
11111J	S-5/S-6	71.3	Just below the overflow elevation
11101J	S-3	72.4	
11102J	S-2	72.2	1.2 ft above the overflow elevation
12001J	S-10/S-11	72.2	Overflow at S-10, but not S-11

The simulated data match the South Pond peak elevation and simulate the overflows at S-2, S-8, and S-11. Based on the close match of the simulated and observed peak stages, the model was considered calibrated.

3.2.4 Flowpaths and Slopes

The RUNOFF hydrologic model that was developed for the 1995 Lake Tuscawilla design project had previously been calibrated. Therefore, the flow paths and slopes were not modified for this study.

3.2.5 Land Use

Land use data are not directly used by the RUNOFF block, rather they are used to determine the impervious area and overland flow Mannings values of each basin. Since the 1995 model had been calibrated for runoff, these parameters were not modified when the model was converted to XPSWMM. The land use, based on data provided by the City, is presented in Figure 3-4.

3.2.6 Soil Infiltration Parameters

Since the 1995 model had been calibrated for runoff, the soil infiltration parameters were not modified when the model was converted to XPSWMM. The soils in the study area, based on data obtained from the SJRWMD, are presented in Figure 3-5.

3.2.7 Input File Creation

The "Import" feature of XPSWMM was used to import the SWMM3.5 hydrologic model into XPSWMM. Each individual subbasin was checked to make sure all of the data had been imported correctly and any necessary corrections were made. Table 3-1 presents a summary of the hydrologic data in the RUNOFF model. The complete RUNOFF input and output files are included in Appendix A.

3.3 Hydraulics

From a modeling perspective, hydraulics concerns the storage and conveyance elements in the system (both pipes and open channels), that manage surface runoff.

3.3.1 Introduction

This section describes the hydraulic data analysis and generation used in importing a SWMM3.5 EXTRAN input file into XPSWMM and updating the model data. The data analyzed included conveyance structures, stage/storage relationships, drainage well discharge rates, and historical flooding data.

3.3.2 Conveyance Structures

As-built plans from the 1995 design modifications of Lake Tuscawilla, NE 3rd Street/NE Watula Avenue Drainage Improvements plans, and the NE 5th Street Drainage Improvement Phase 2 plans were used to update the model. The structures depicted on these plans were mapped in Arcview[®] and are presented in Figure 3-6. The plans provided information such as pipe lengths, diameters, construction materials, and inverts as shown in Table 3-2. An updated EXTRAN model schematic is presented in Figure 3-7.

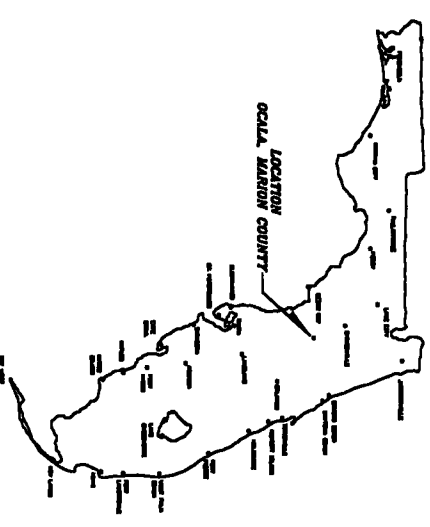
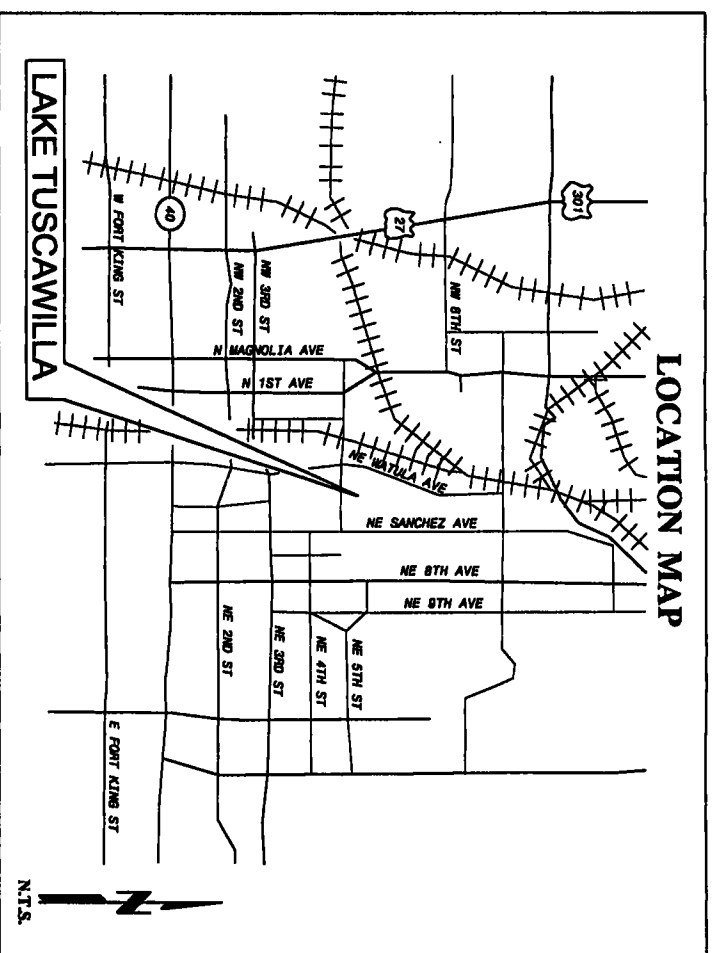
CITY OF OCALA

LAKE TUSCAWILLA

WEST POND

BID NO.

MARCH 2005



Ocala-Marion County



DRAWING INDEX

GENERAL

G-1 COVER SHEET
LEGENDS AND ABBREVIATIONS

YARDWORK

Y-1 EXISTING SITE CONDITIONS
Y-2 DEMOLITION PLAN
Y-3 MET DETENTION POND - GRADING AND DRAINAGE PLAN
Y-4 SECTIONS AND DETAILS
Y-5 EROSION CONTROL DETAILS

BLACK & VEATCH
CORPORATION
Suite 130
10751 Deerwood Park Boulevard
Jacksonville, Florida 32256
Certificate No. 8132

B&V PN 1365580

GENERAL NOTES

- CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CITY OF Ocala STANDARD SPECIFICATIONS, VOLUME I, "GENERAL CONDITIONS FOR CONSTRUCTION", VOLUME II, "STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION", AND VOLUME III, "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION". IN CASE OF CONFLICTING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- NO CHANGE TO THE WORK AS SHOWN IN THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER. VERTICAL DATUM IS BASED ON 1988 MGD.
- WHEN OPERATING OUTSIDE OF THE CITY OF Ocala RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE PROPER NOTIFICATION AND OBTAIN WRITTEN PERMISSION TO DO SO FROM THE OWNER OF EACH AFFECTED PROPERTY.
- THE CONTRACTOR IS TO MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE CONSTRUCTION PROCESS FOR ALL ADJACENT PROPERTY OWNERS.
- ALL PIPE LENGTHS SHOWN ON PLANS AND PROFILES ARE FROM CENTER TO CENTER OF STRUCTURES, EXCEPT WATERED ENDS. INVERT ELEVATIONS SHOWN ON THE DRAWINGS REFER TO CENTER LINE OF STRUCTURE UNLESS OTHERWISE NOTED.
- UNDESIRABLE MATERIAL SHALL BE EXCAVATED BELOW PIPE AS FOLLOWS:
 6. LESS THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 2 FEET BELOW PIPE.
 7. MORE THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 1 FOOT BELOW PIPE.
- THE LOCATION OF ALL EXISTING UTILITIES, FACILITIES, AND ANY OTHER FEATURES SHOWN ON THESE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE COMPLETENESS OF THE LOCATION INFORMATION TO PROTECT ANY EXISTING FEATURES FROM DAMAGE OR UNSCHEDULED INTERRUPTION OF SERVICE. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND CAREFULLY WORK WITH AND AROUND ALL UTILITIES, OTHER STRUCTURES, AND OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) FOR FIELD LOCATIONS 48 HOURS IN ADVANCE BEFORE DIGGING NEAR UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY UTILITY CONTRACTS AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION INVOLVING THEIR UTILITIES TO ALLOW UTILITY RELOCATIONS AND INSTALLATION OF FACILITIES, SUCH AS CONDUIT CROSSINGS FOR FUTURE USE. THESE SHALL BE DONE BY THE RESPECTIVE UTILITY OWNER.
- COORDINATION TO AVOID POSSIBLE CONFLICTS BETWEEN WATERMANS, PRESSURE MAINS, GRAVITY SEWER, AND OTHER CONSTRUCTION UNDER THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 6-INCH CLEARANCE OR AS NOTED BETWEEN ALL UTILITIES. NO SPECIAL PAYMENT IS ALLOWED.
- THE APPLICATION OF APPROPRIATE EROSION CONTROL DEVICES AND PRACTICES WILL BE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE CITY OF Ocala, VOLUME II, STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION, 1988, SECTION 104.
- THE SITE SHALL REMAIN FREE OF EXCESS DIRT AND DEBRIS AT ALL TIMES. ANY INCIDENT OF EROSION, SEDIMENTATION, DIRT, OR DEBRIS OCCURRING OFF-SITE AS A RESULT OF CONSTRUCTION ACTIVITIES ON THIS PROJECT SHALL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER FOR CONDUCTING THE FOLLOWING DESCRIBED WORK: EXISTING SECTION CORNERS, SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS, INCLUDING INDIVIDUAL LOT CORNERS, LOCATED WITHIN PROPOSED CONSTRUCTION AREA TO BE REFERENCED PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION, IN ACCORDANCE WITH CHAPTERS 177 AND 472 OF THE FLORIDA STATUTES AND 61917 OF THE FLORIDA ADMINISTRATIVE CODE.

MATERIALS LEGEND

	EARTH ON GRADE		RIPRAP
	GRANULAR FILL (CRUSHED ROCK ON GRAVEL)		CHECKERED PLATE
	ROCK		STEEL ON ALUMINUM (FOR 3/4 SCALE & SMALLER)
	NEW CONCRETE		STEEL ON ALUMINUM (LINES IN DIRECTION OF SPAN)
	EXISTING CONCRETE, PRECAST OR PRESTRESSED CONCRETE		ALUMINUM
	CUT STONE ON SAND FILL		
	GROUT, MORTAR, AND FLASTER		

GENERAL LEGEND

	SURFACED STREET, ROAD OR DRIVE		BUILDINGS, STRUCTURES
	SURFACED STREET, ROAD OR DRIVE WITH CURB		STRUCTURES UNDERGROUND
	NON-SURFACED STREET, ROAD OR DRIVE		FUTURE BUILDINGS, STRUCTURES
	CONCRETE WALK		FENCE
	CATCH BASIN		FENCE, WOOD
	MANHOLE		RAILROAD, EACH TRACK
	DRAINAGE COURSE ON FLOW LINE		CENTERLINE
	EXISTING GROUND CONTOUR		
	FINISH GRADE CONTOUR		
	BANK ON SLOPE LINES		
	TEST HOLE AND NUMBER		
	SURVEY LINE WITH PT, PT, OR POT		
	CONCRETE ENCASUREMENT - PLAN		
	CONCRETE REACTION BLOCKING AT BEND, FLAP OR TEE		
	DRAINS ON CULVERTS		
	TUNNEL CASTING - PLAN		
	EXISTING		
	GENERAL LAYOUT YARD PIPING		
	NEW		
	NEW WATER LINE ON SEWER IN PROFILE		
	NON-CONNECTING PIPING		
	CONSTRUCTION EASEMENT LINE		
	EASEMENT LINE		
	RIGHT-OF-WAY LINE		
	PROPERTY LINE		
	PERMANENT EASEMENT LINE		
	TEMPORARY EASEMENT LINE		
	UTILITY EASEMENT LINE		
	SURVEY LINE		
	SECTION LINE		
	WATER LINE		
	GAS LINE		
	TELEPHONE (UNDERGROUND)		
	ELECTRICAL (UNDERGROUND)		
	POWER OR TELEPHONE LINES (OVERHEAD)		
	WATER OR GAS VALVE		
	WATER OR GAS METER		
	TELEPHONE OR POWER POLE WITH GUY ANCHOR		
	FIRE HYDRANT		
	YARD HYDRANT		
	STREET LIGHT POLE		
	TRAFFIC SIGNAL		
	TRAFFIC SIGN		
	STOP SIGN		
	HEDGE, BUSH, SHRUBS, WOODS		
	DECIDUOUS TREE AND TRUNK DIAMETER		
	CONIFEROUS TREE AND TRUNK DIAMETER		
	SWAMP		
	BUILDINGS, STRUCTURES		
	STRUCTURES UNDERGROUND		
	FUTURE BUILDINGS, STRUCTURES		
	FENCE		
	FENCE, WOOD		
	RAILROAD, EACH TRACK		
	CENTERLINE		
	SECTION NUMBER ON DETAIL LETTER		
	DRAWING NUMBER ON WHICH SECTION IS CUT OR DETAIL IS NOTED		
	WALL ELEVATION		
	EQUIPMENT OR VALVE IDENTIFICATION CODE		

ABBREVIATIONS

AL	ALUMINUM	ASPH	ASPHALT	AW	AWAY	BA	BANK	BB	BENCH	BS	BUSH	CA	CATCH BASIN	CD	CAST IRON	CE	CENTRELINE	CF	CHECK VALVE	CH	CHIMNEY	CL	CLEARANCE	CM	CONCRETE MASONRY	CN	CONCRETE	CO	CONDUIT	CP	COPY	CR	CROWN	CS	CAST IRON	CSL	CONCRETE SLOPE	CT	CATCH TRAP	CX	CROSSING	DA	DRAINAGE	DB	DRAINAGE BASIN	DC	DRAINAGE CURB	DD	DRAINAGE DUCT	DE	DRAINAGE	DF	DRAINAGE	DG	DRAINAGE	DH	DRAINAGE	DI	DRAINAGE	DJ	DRAINAGE	DK	DRAINAGE	DL	DRAINAGE	DM	DRAINAGE	DN	DRAINAGE	DO	DRAINAGE	DP	DRAINAGE	DQ	DRAINAGE	DR	DRAINAGE	DS	DRAINAGE	DT	DRAINAGE	DU	DRAINAGE	DV	DRAINAGE	DW	DRAINAGE	DX	DRAINAGE	DY	DRAINAGE	DZ	DRAINAGE
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CITY OF OCALA
LAKE TUSCAWILLA
WEST POND

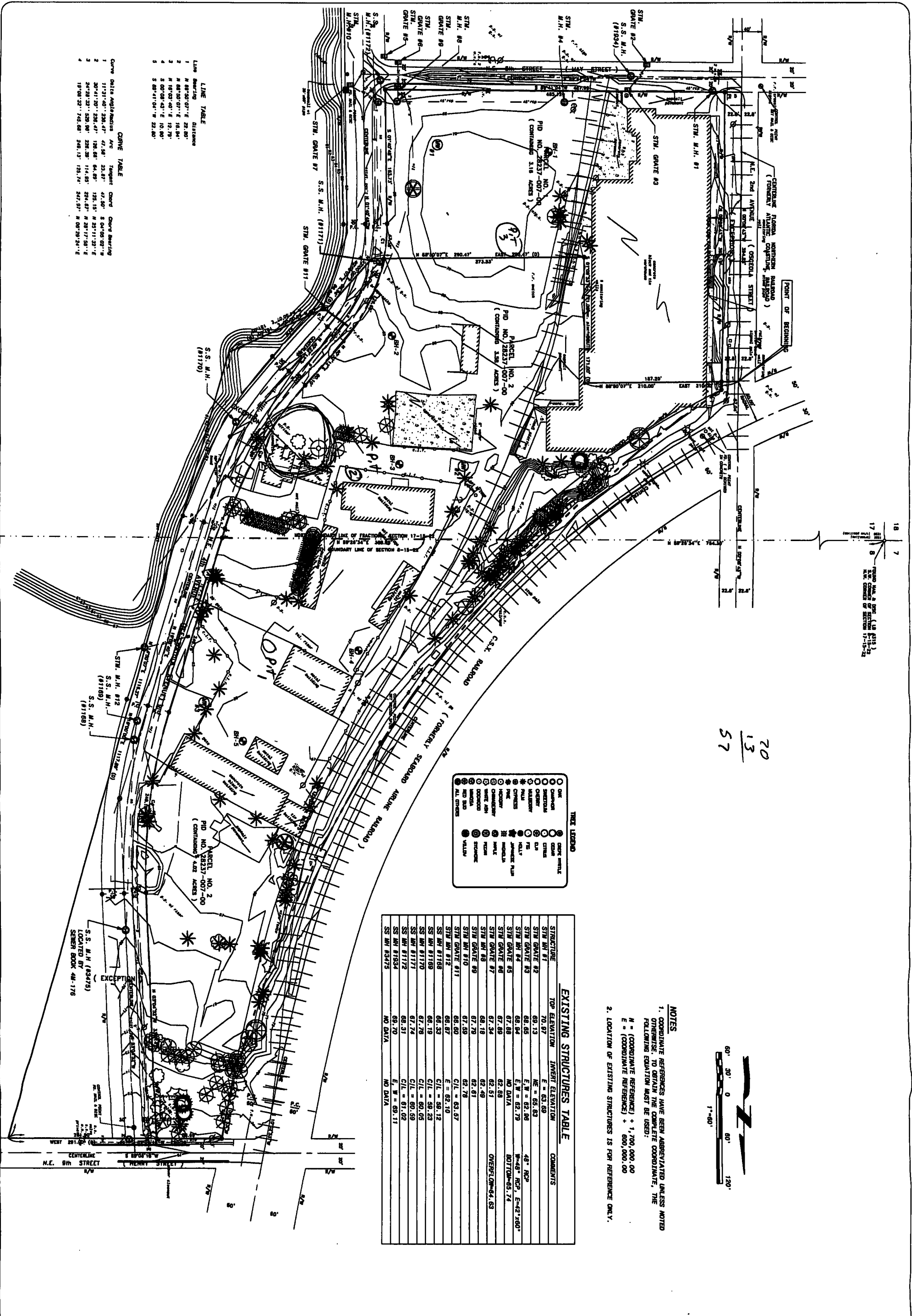
GENERAL
GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

BLACK & VEATCH
Corporation

10751 Deerwood Park Boulevard
Suite 130
Jacksonville, Florida 32256
Certificate No. 6132

REVISIONS AND RECORD OF ISSUE		NO.	BY	CHK	APP
DATE					
CYDNET ID: 136580-3000-343-C-EG00082W	XREF1 ID:				
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USER: CAV32683	SW: ACAD-2000I				
	XREF5 ID:				

DESIGNED: JRC	
DRAWN: VVV	
CHECKED:	
APPROVED:	
DATE:	
PROJECT NO.:	136580
SHEET	G-1
OF	



LINE TABLE

LINE NUMBER	BEARING	DISTANCE
1	N 88°50'07" E	22.80'
2	N 88°50'07" E	18.84'
3	N 18°03'40" E	12.79'
4	S 00°08'43" E	10.80'
5	S 89°41'04" W	22.80'

CURVE TABLE

Curve Data	Angle	Radius	Arc	Tangent	Chord	Chord Bearing
1	113°31'40"	238.47'	47.84'	23.87'	50.40'	S 04°08'02" W
2	30°41'20"	238.47'	128.88'	64.89'	125.15'	N 23°11'32" E
3	24°38'22"	528.94'	228.28'	114.15'	224.47'	N 28°17'36" E
4	18°08'22"	748.08'	248.13'	124.14'	247.97'	N 08°59'24" E

EXISTING STRUCTURES TABLE


STRUCTURE	TOP ELEVATION	INVERT ELEVATION	COMMENTS
STM GRATE #1	70.97	E = 63.89	
STM GRATE #2	69.13	E = 65.83	
STM GRATE #3	68.05	E = 62.98	48" RCP, E=42' x 60"
STM GRATE #4	68.84	E = 62.79	W=48" RCP, E=42' x 60"
STM GRATE #5	67.88	NO DATA	8070M-65.74
STM GRATE #6	67.89	62.88	
STM GRATE #7	67.34	62.51	OVERFLOW=64.63
STM GRATE #8	68.18	62.49	
STM GRATE #9	67.99	62.91	
STM GRATE #10	67.89	62.78	
STM GRATE #11	66.80	E = 63.57	
STM GRATE #12	66.87	E = 62.10	
SS MH #1169	66.33	C/L = 59.12	
SS MH #1170	66.19	C/L = 60.23	
SS MH #1171	67.74	C/L = 60.59	
SS MH #1172	69.31	C/L = 61.02	
SS MH #1184	69.70	E = 69.11	
SS MH #1275	NO DATA	NO DATA	

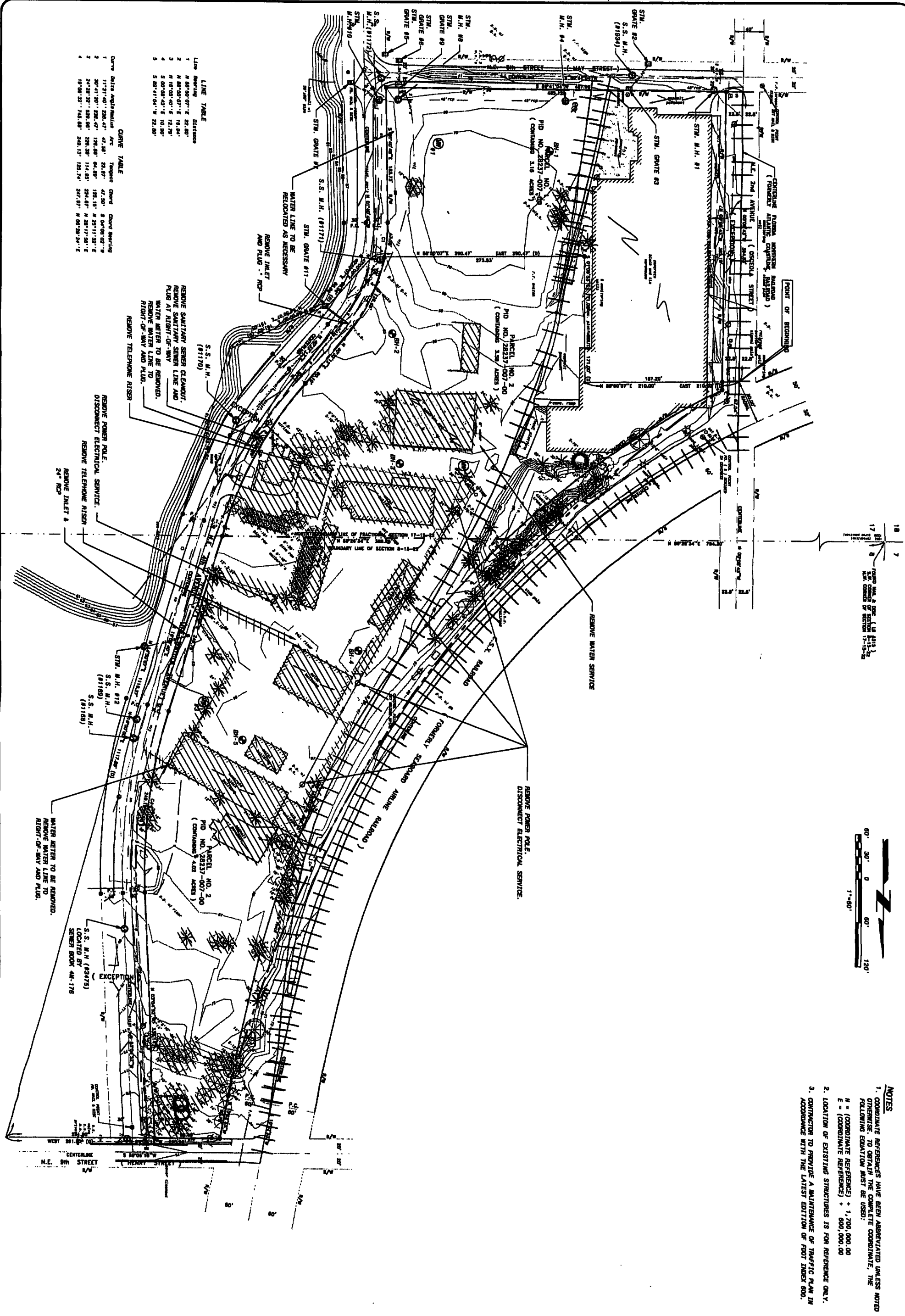
NOTES

- COORDINATE REFERENCES HAVE BEEN ABBREVIATED UNLESS NOTED OTHERWISE. TO OBTAIN THE COMPLETE COORDINATE, THE FOLLOWING EQUATION MUST BE USED:
N = (COORDINATE REFERENCE) + 1,700,000.00
E = (COORDINATE REFERENCE) + 600,000.00
- LOCATION OF EXISTING STRUCTURES IS FOR REFERENCE ONLY.



70
13
57

<p>CITY OF OCALA LAKE TUSCAWILLA WEST POND</p> <p style="text-align: center;">GENERAL EXISTING SITE CONDITIONS</p>	 <p>BLACK & VEATCH Corporation 10751 Deerwood Park Boulevard Suite 130 Jacksonville, Florida 32256 Certificate No. 8132</p>	<p>DATE: _____</p> <p>DESIGNED: HVC</p> <p>DRAWN: VVV</p> <p>CHECKED: _____</p> <p>DATE: _____</p>	<p>NO. BY CR APP</p> <p>DATE: _____</p> <p>REVISIONS AND RECORD OF ISSUE</p> <p>CYNET ID: 136580-3000-342-C-E00006007</p> <p>SAVED: MAN31484, 3/11/2005 11:26:13 AM</p> <p>DWG VER #: _____</p> <p>PLOTTED: MAN31484, 3/10/2005 3:13:18 PM</p> <p>USER: MAN31484</p>	<p>NO. BY CR APP</p> <p>REF1 ID: 136580-000-342-C-E00006005</p> <p>REF2 ID: _____</p> <p>REF3 ID: _____</p> <p>REF4 ID: _____</p> <p>REF5 ID: _____</p>
<p>PROJECT NO. 136580</p> <p>SHEET OF Y-1</p>				



LINE TABLE

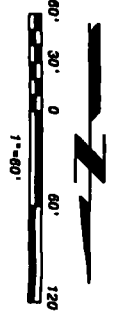
Line	Stationing	Distance
1	N 88°50'07" E 22.80'	
2	N 88°50'07" E 18.84'	
3	N 87°03'40" E 12.78'	
4	S 07°08'42" E 10.80'	
5	S 89°41'04" W 22.80'	

CURVE TABLE

Curve	Delta Angle/Stationing	Arc	Tangent	Chord	Chord Bearing
1	11°31'40" / 228.47'	47.50'	22.80'	47.50'	S 07°08'02" E
2	20°41'20" / 228.47'	128.00'	64.00'	128.00'	N 27°11'20" E
3	24°28'22" / 628.00'	228.00'	114.00'	228.00'	N 28°17'00" E
4	19°08'22" / 745.00'	240.13'	120.07'	240.13'	N 08°28'24" E

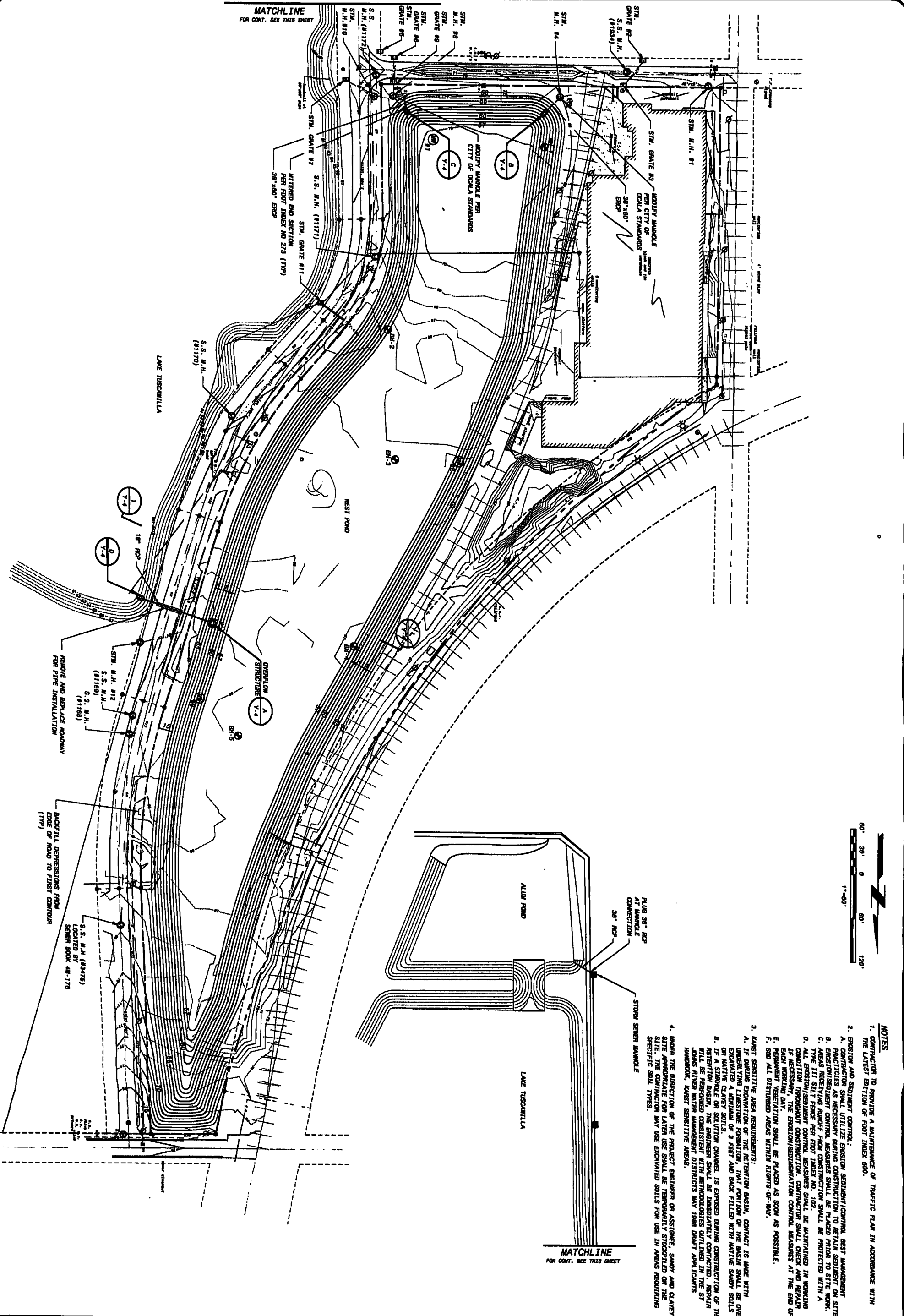
18
7
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

POINT OF BEGINNING
FORMERLY PALM SPRING RAILROAD
(FORMERLY ATLANTIC COASTAL RAILROAD)
OSCEOLA STREET
N.E. 2nd AVENUE
N.E. 9th STREET
HENRY STREET
N.E. 10th STREET
N.E. 11th STREET
N.E. 12th STREET
N.E. 13th STREET
N.E. 14th STREET
N.E. 15th STREET
N.E. 16th STREET
N.E. 17th STREET
N.E. 18th STREET



- NOTES**
- COORDINATE REFERENCES HAVE BEEN ABBREVIATED UNLESS NOTED OTHERWISE. TO OBTAIN THE COMPLETE COORDINATE, THE FOLLOWING EQUATION MUST BE USED:
N = (COORDINATE REFERENCE) + 1,700,000.00
E = (COORDINATE REFERENCE) + 600,000.00
 - LOCATION OF EXISTING STRUCTURES IS FOR REFERENCE ONLY.
 - CONTRACTOR TO PROVIDE A MAINTENANCE OR TRAFFIC PLAN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT LINDER 800.

CITY OF OCALA LAKE TUSCAWILLA WEST POND YARDWORK DEMOLITION PLAN	 BLACK & VEATCH Corporation 10781 Deerwood Park Boulevard Suite 130 Jacksonville, Florida 32256 Certificate No. 8132	DATE: _____ REVISIONS AND RECORD OF ISSUE: _____ NO. BY CK APP
		CYCNET ID: 136580-3000-342-C-E0000800V XREF1 ID: 136580-0000-342-C-E0000800S SAVED: MAN31454, 3/11/2005 10:58:30 AM XREF2 ID: DWG VER #: _____ XREF3 ID: PLOTTED: MAN31454, 3/10/2005 4:28:01 PM XREF4 ID: USER: MAN31454 DW: ACAD-2000L XREF5 ID: XREF6 ID:
DESTIGNED: NVC DETAILER: VVV APPROVED: PROJECT NO. 136580	SHEET OF Y-2	



NOTES

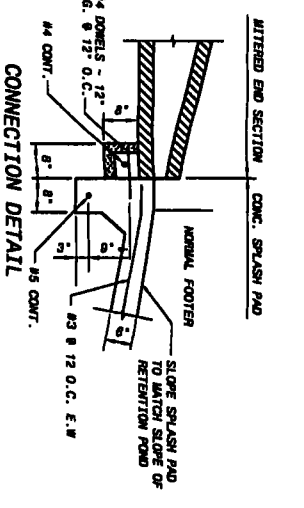
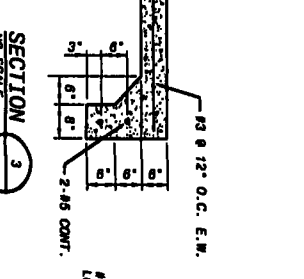
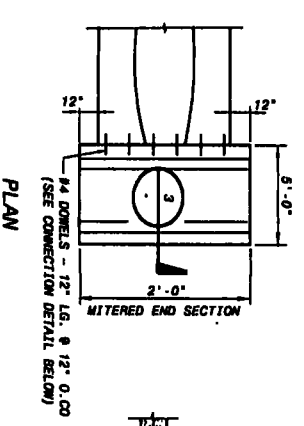
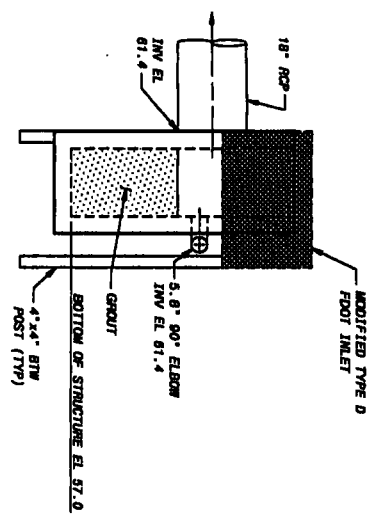
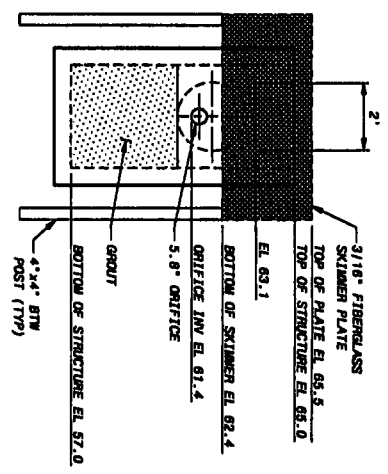
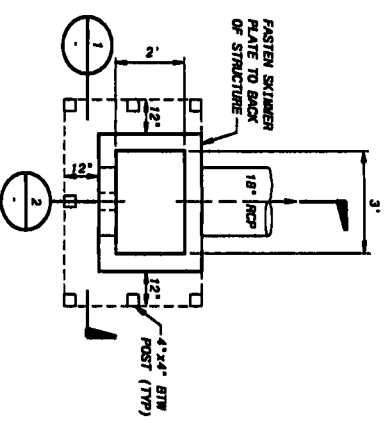
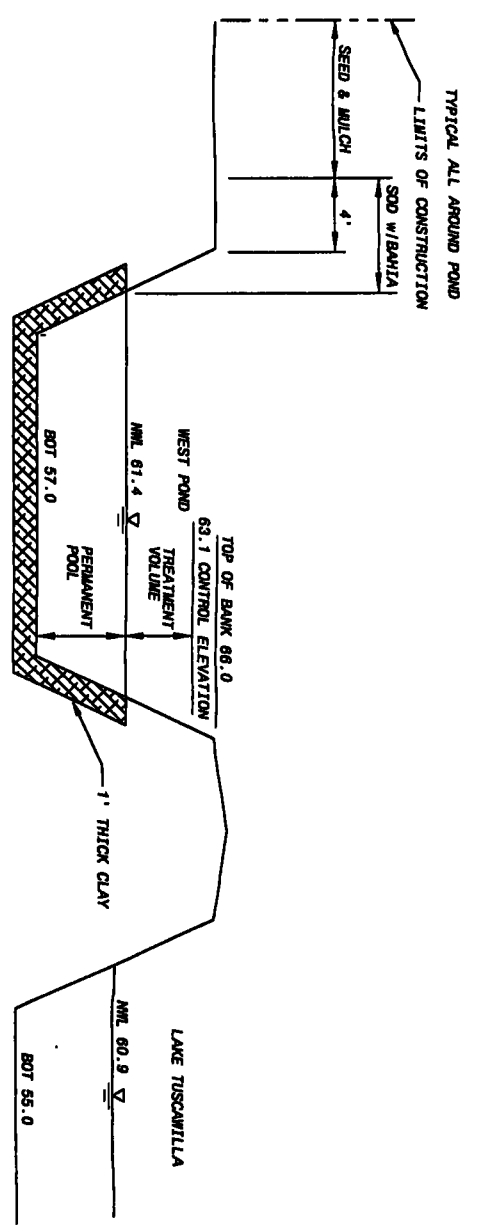
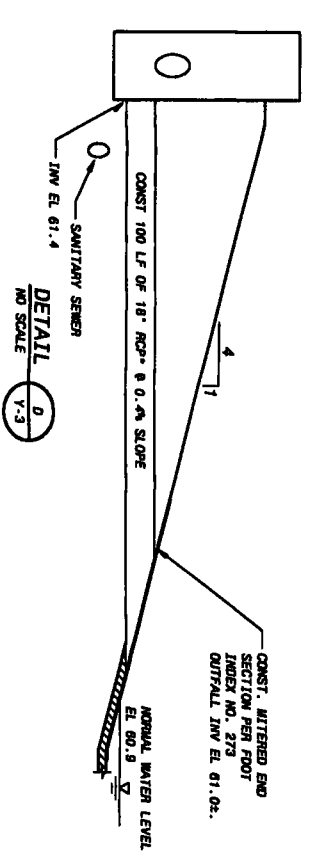
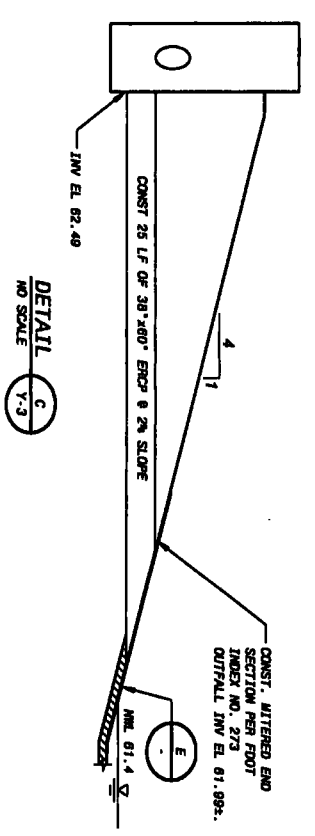
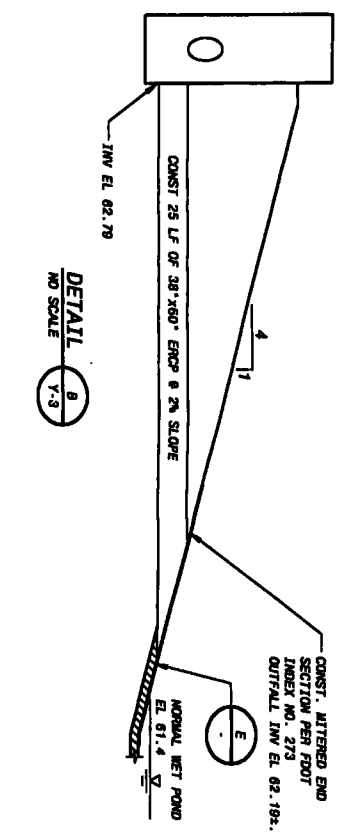
1. CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT INDEX 600.
2. EROSION AND SEDIMENT CONTROL:
 - A. CONTRACTOR SHALL UTILIZE EROSION SEDIMENT CONTROL BEST MANAGEMENT PRACTICES AS NECESSARY DURING CONSTRUCTION TO RETAIN SEDIMENT ON SITE.
 - B. EROSION/SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO SITE WORK.
 - C. AREAS RECEIVING RUNOFF FROM CONSTRUCTION SHALL BE PROTECTED WITH A TYPE III SILT FENCE PER FOOT INDEX NO. 102.
 - D. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN WORKING CONDITION THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL CHECK AND REPAIR IF NECESSARY, THE EROSION/SEDIMENTATION CONTROL MEASURES AT THE END OF EACH WORKING DAY.
 - E. PERMANENT VEGETATION SHALL BE PLACED AS SOON AS POSSIBLE.
 - F. SOE ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY.
3. KARST SENSITIVE AREA REQUIREMENTS:
 - A. IF DURING SEPARATION OF THE RETENTION BASIN, CONTACT IS MADE WITH UNDERLYING Limestone FORMATION THAT PORTION OF THE BASIN SHALL BE OVER EXCAVATED A MINIMUM OF 3 FEET AND BACK FILLED WITH NATIVE SANDY SOILS OR NATIVE CLAYEY SOILS.
 - B. IF A SIMHOLE OR SOLUTION CHANNEL IS EXPOSED DURING CONSTRUCTION OF THE RETENTION BASIN, THE ENGINEER SHALL BE IMMEDIATELY CONTACTED. REPAIR WILL BE PERFORMED CONSISTENT WITH METHODOLOGIES OUTLINED IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICTS MAY 1988 DRAFT APPLICATIONS HANDBOOK, KARST SENSITIVE AREAS.
4. UNDER THE DIRECTION OF THE PROJECT ENGINEER OR ASSISTANT, SANDY AND CLAYEY SITE APPROPRIATE FOR LATER USE SHALL BE TEMPORARILY STOCKPILED ON THE SITE. THE CONTRACTOR MAY USE EXCAVATED SOILS FOR USE IN AREAS REQUIRING SPECIFIC SOIL TYPES.

CITY OF OCALA
LAKE TUSCAWILLA
WEST POND
 YARDWORK
 WET DETENTION POND
 GRADING AND DRAINAGE



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

PROJECT NO. **136580**
 SHEET OF **Y-3**



MITERED END SECTION
SPLASH PAD DETAIL

CITY OF OCALA
LAKE TUSCAWILLA
WEST POND

YARDWORK
WET DETENTION POND
DETAIL AND SECTIONS

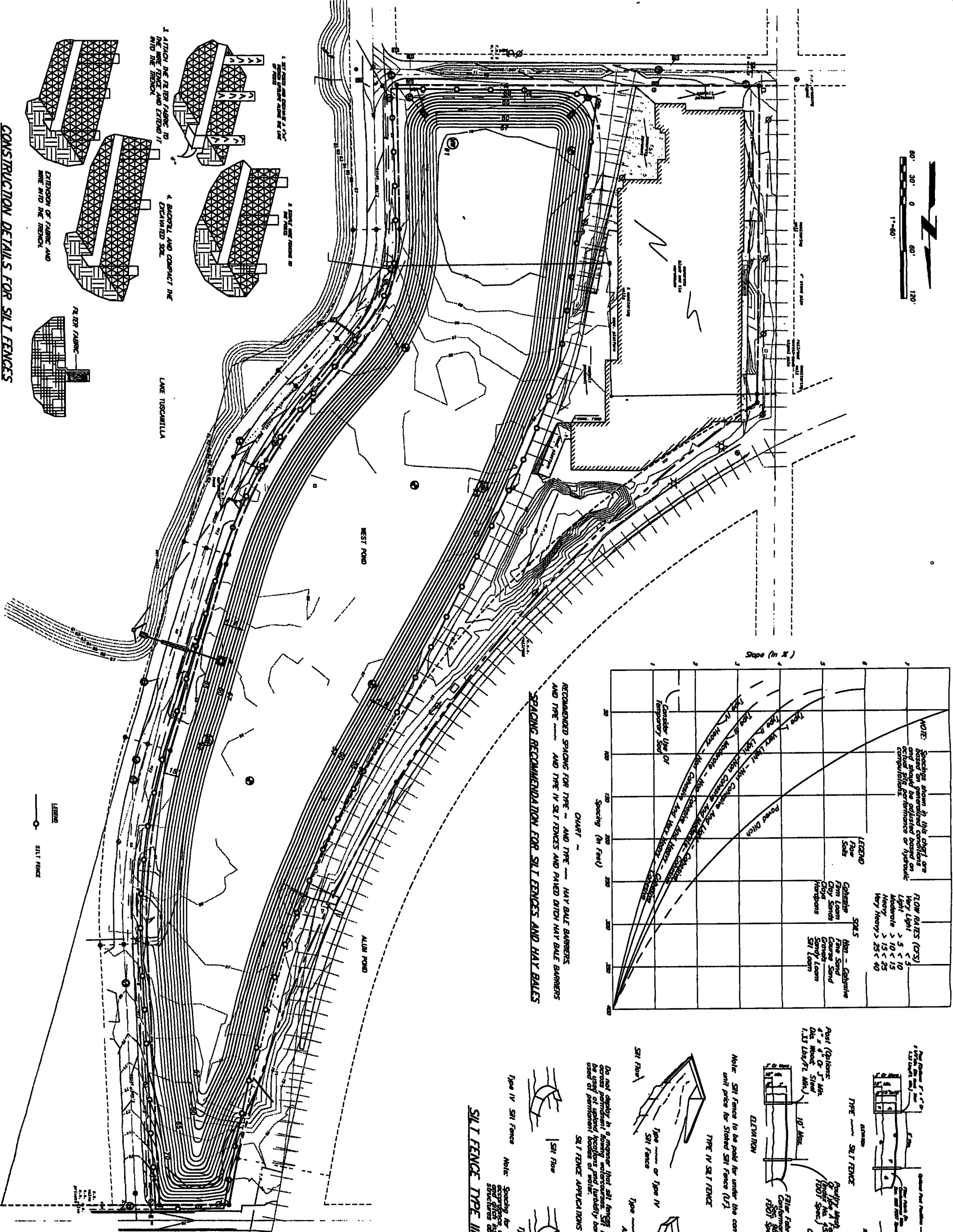
BLACK & VEATCH
Corporation
10751 Deenwood Park Boulevard
Suite 130
Jacksonville, Florida 32256
Certificate No. 8132

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP
CYONET ID: 136580-3000-342-C-E00006CCB	XREF1 ID:				
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DWG VER #: 1	XREF3 ID:				
PLOTTED: MAN31484, 3/10/2006 3:31:13 PM	XREF4 ID:				
USER: MAN31484	SW: ACAD-2000i				

PROJECT NO.
136580

Y-4

SHEET
OF



CONSTRUCTION DETAILS FOR SILT FENCES

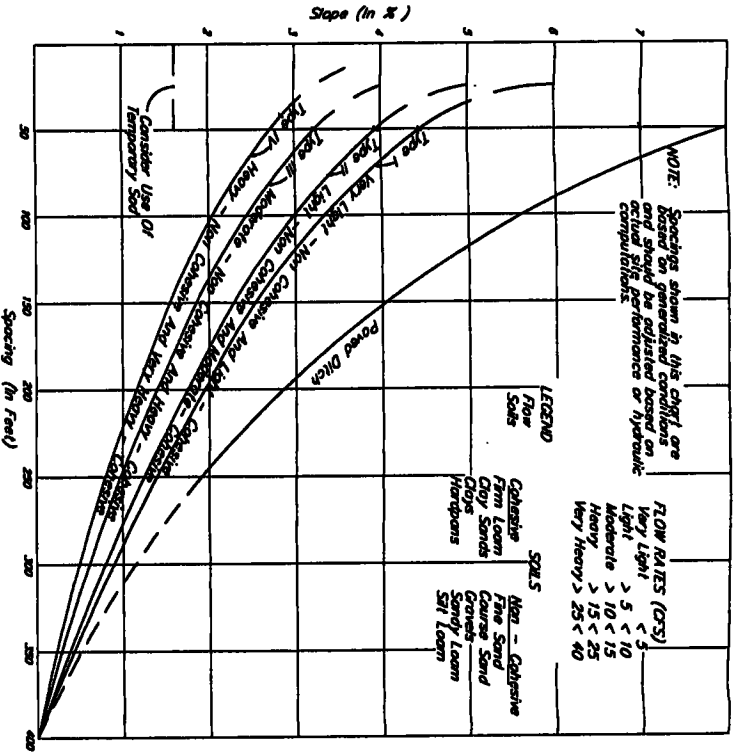
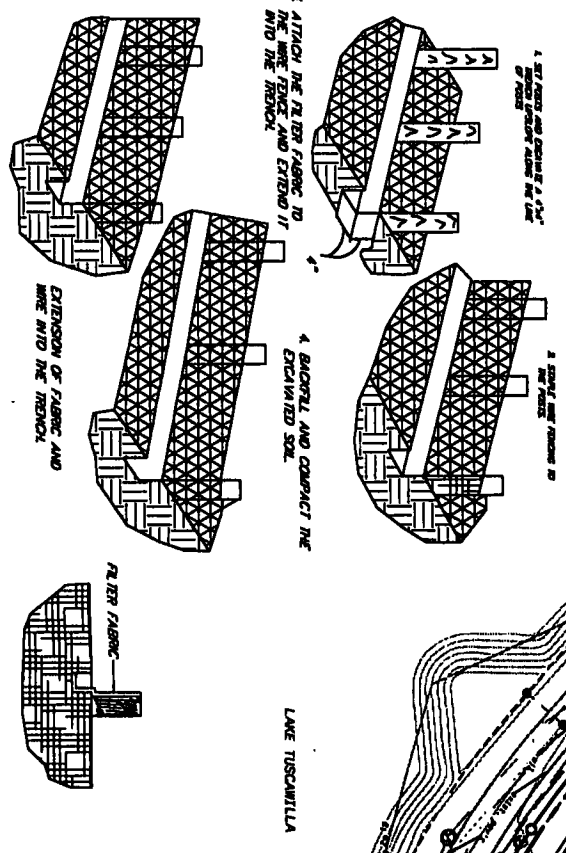
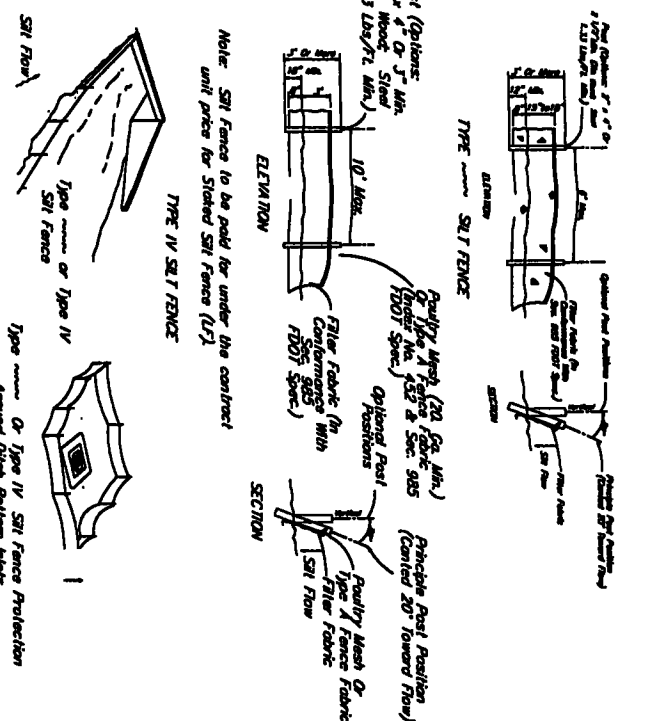


CHART -
RECOMMENDED SPACING FOR TYPE III AND TYPE IV SILT FENCES AND HAY BALE BARRIERS AND PAVED DITCH HAY BALE BARRIERS



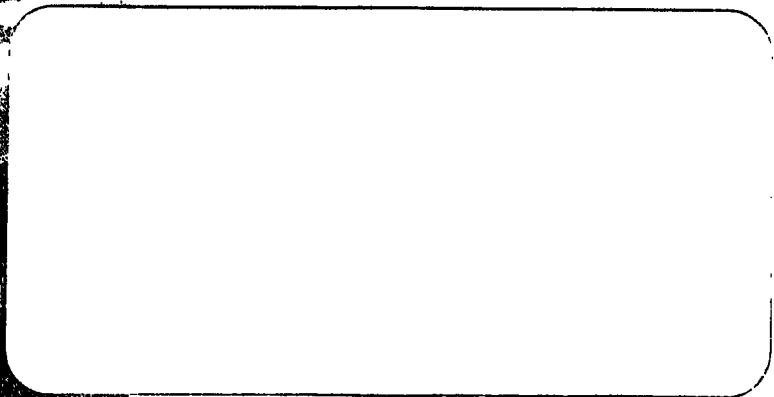
SILT FENCE TYPE III & IV

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidly waters. Do not use at permanent bodies of water.

SILT FENCE APPLICATIONS

- Type IV Silt Fence
- Type III Silt Fence
- Spacing for Type III Silt Fence to be in accordance with the chart of spacing structures above.
- Type IV Silt Fence Protection Around Ditch Bottoms.

<p>DESIGNED: JVC CHECKED: VVV APPROVED:</p>	<p>CITY OF OCALA LAKE TUSCAWILLA WEST POND</p> <p>YARDWORK EROSION CONTROL DETAILS</p>	<p>BLACK & VEATCH Corporation 10751 Deerswood Park Boulevard Suite 130 Jacksonville, Florida 32256 Certificate No. 6132</p>	<p>DATE: 3/10/2006 5:44:40 PM</p>	<p>NO. BY CK APP</p>
			<p>PROJECT NO.: 136580</p>	<p>REVISIONS AND RECORD OF ISSUE</p>
<p>SHEET OF Y-5</p>	<p>DATE: 3/10/2006 5:44:46 PM</p>	<p>USER: RDS31473</p>	<p>REVISIONS AND RECORD OF ISSUE</p>	<p>NO. BY CK APP</p>
<p>PROJECT NO.: 136580</p>	<p>DATE: 3/10/2006 5:44:46 PM</p>	<p>USER: RDS31473</p>	<p>REVISIONS AND RECORD OF ISSUE</p>	<p>NO. BY CK APP</p>



Andreyev Engineering, Inc.

- ▼ *Groundwater*
- ▼ *Environmental*
- ▼ *Geotechnical*
- ▼ *Materials Testing*

**GEOTECHNICAL ENGINEERING STUDY
LAKE TUSCAWILLA EXPANSION
N.E. 5th STREET and N.E. 4th AVENUE
OCALA, FLORIDA**

JUL 22 2004



Andreyev Engineering, Inc.

OCALA OFFICE

3426 S.W. 6th Street

Ocala, Florida 34474

352-401-9522

Fax: 352-401-9523

Email: drathbun@andreyevengineering.com

▼ Groundwater ▼ Environmental ▼ Geotechnical ▼ Construction Materials Testing

July 21, 2004
AEI Project No. OGGT-04-180

TO: Mr. Tom Young, P.E.
City of Ocala Engineering Department
P.O. Box 1270
Ocala, Florida 34474

SUBJECT: Geotechnical Engineering Study, Lake Tuscawilla Expansion Site, N.E. 5TH Street
and N.E. 4th Avenue (Watula), Ocala, Florida

Dear Mr. Young:

As requested, Andreyev Engineering, Inc. (AEI) has completed a geotechnical engineering study for the above referenced project. This report presents the findings of the study and geotechnical engineering conclusions to guide design and construction of the proposed project.

SITE LOCATION AND DESCRIPTION

The site is located on the northwest corner of N.E. 5th Street and N.E. 4th Avenue (Watula) in Ocala, Florida. The subject property was developed at the time of AEI's field exploration. AEI understands that the project will consist of an expansion of the existing development at the site.

PURPOSE AND SCOPE OF STUDY

The purpose of this study was to explore the subsurface conditions and to provide geotechnical engineering information and conclusions for design and construction of the proposed development. To accomplish this purpose, the following tasks were performed:

- Drilled five (5) Standard Penetration Test (SPT) borings (B-1 through B-5). The borings were drilled to the top of the limestone layer. The SPT borings were conducted in June, 2004.
- Installed three (3) piezometers (MW-1, MW-2 and MW-3) to depths of 35 feet and obtained 24-hour ground water level readings. The piezometers were installed and ground water level readings were completed in June, 2004.
- Collected two (2) Shelby tube samples from clayey soils at the locations of SPT borings B-2 and B-5 and conducted laboratory hydraulic conductivity testing on each sample.

The Villages
352-751-2478
Fax 352-751-2633

Clermont
352-241-0508
Fax 352-241-0977

St. Petersburg
727-527-5735
Fax 727-527-6084

Sanford
407-330-7763
Fax 407-330-7765

- Collected two (2) tube samples from shallow sandy soils at the locations of SPT borings B-3 and B-4 and conducted laboratory hydraulic conductivity testing on each sample.
- Conducted eleven (11) laboratory No. 200 sieve washes for various soil types encountered in the SPT borings.
- Prepared this report presenting the results of the study including boring results in the form of drafted profiles, laboratory test results, evaluation of site conditions and geotechnical engineering conclusions relative to the project.

SITE EXPLORATION

Soil and Rock Conditions

The approximate boring locations are presented on **Figure 1**. The results of the subsurface exploration program, including the stratification profiles and some pertinent exploration information such as "SPT-N" values are graphically presented on **Figure 2**. Stratification was based on the review of recovered soil and rock samples and interpolation of the field boring logs. The stratification lines represent the approximate boundaries between strata types, the actual transition may be gradual. The strata were visually classified using the Unified Soils Classification System (USCS). Minor variations in strata types not considered important to AEI's engineering evaluations may have been abbreviated or omitted for clarity.

The following 6 strata were identified in the borings:

STRATUM NO.	DESCRIPTION	USCS GROUP
1	Gray to gray brown to brown fine sand to fine sand with silt	SP, SP-SM
2	Dark brown to gray brown fine sand with silt and deposits of limerock and/or red brick and/or man-made hardened clay	SP-SM
3	Gray sandy clay to fat clay	CL,CH
4	Gray brown clayey sand	SC
5	Limestone	---
6	Sandy Muck/Peat	PT

The borings encountered alternating layers of strata 1 through 6 with the limestone layer (stratum 5) encountered at the bottom of each of the borings. Refer to **Figure 2** for the approximate depth and thickness of each encountered stratum.

Based on the SPT-N values obtained from the borings, the sandy soils (strata 1, 2, 4 and 6) exist in a very loose to medium dense condition. The clay (stratum 3) is considered to have a consistency that ranges from very soft to stiff.

Ground Water Conditions

A ground water table was not found within the upper 10 feet of the SPT borings. Ground water table measurements were not taken below a depth of 10 feet in the SPT borings due to the presence of drilling fluid in the boreholes. The stabilized 24-hour ground water measurements obtained from the piezometers (MW-1, MW-2 and MW-3) ranged from 21 feet to 25 feet below land surface. The shallow ground water level should be expected to vary during wet seasons and heavy rainfall events.

Based on the discovered soil stratigraphy and a review of USDA Soil Survey information, AEI anticipates that the ground water will be temporarily perched above stratum 3 following periods of extended or heavy rainfall.

CONCLUSIONS

Based on the boring results encountered in B-1, very loose soil conditions were encountered between 26 feet and 35 feet. In addition, the boring had a 100 percent loss of drilling fluid circulation within this very loose zone of soil. These conditions are indicative of potential sinkhole activity. AEI recommends conducting additional borings around this location to help define the extent of these conditions and provide remedial recommendations, as necessary.

Hydraulic Conductivity Testing

Tube samples were collected within the shallow sandy soils at the locations of SPT borings B-3 and B-4 for the purpose of conducting laboratory hydraulic conductivity testing. Based on the hydraulic conductivity testing, the average measured saturated horizontal permeability rate for each test location is presented in the following table. The results are also shown adjacent to the boring profiles on Figure 2.

Location	Depth of Tube Sample (feet)	Measured Saturated Horizontal Permeability Rate (feet per day)
B-3	2-1/2	16
B-4	3	25

The laboratory hydraulic conductivity testing for the Shelby tube samples of the clay materials has not been completed. Once the testing has been completed for these samples an addendum report with the results will be submitted.

Ground Water Levels

AEI anticipates that the ground water table will be temporarily perched above the clay layer (stratum 3) following periods of heavy and/or extended rainfall. The following table provides an estimation of the perched levels at each SPT boring location.

Boring Location	Depth to Estimated Perched Ground Water Level Below Land Surface (feet)
B-1	6
B-2	8-1/2
B-3	9
B-4	10
B-5	8-1/2

Three piezometers were installed at the locations of MW-1, MW-2 and MW-3 for the purpose of obtaining stabilized ground water table readings at the site. The holes were drilled using hollow stem augers in accordance with ASTM D 5784 to depths of 35 feet each. The piezometers consisted of flush-mount threaded PVC pipe. Each piezometer consisted of 20 feet of 0.01-inch slotted PVC screen. Each piezometer was developed following installation. The following table provides the 24-hour measured ground water levels obtained from each piezometer location.

Piezometer Location	Depth to Measured Ground Water (feet)
MW-1	23.2
MW-2	20.9
MW-3	25.1

No. 200 Sieve Analyses

No. 200 sieve washes were conducted in the laboratory for the various soil types encountered in the SPT borings. The following table provides the results of the sieve washes. The results are also provided adjacent to the borings profiles on Figure 2.

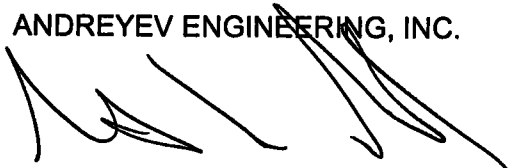
Boring Location	Depth of Tested Soil (feet)	Percent Passing # 200 Sieve	USCS Classification
B-1	6	28	SC
B-1	23-1/2	9	SP, SP-SM
B-1	33	12	SC
B-2	1/2	9	SP, SP-SM
B-2	9-1/2	11	SC
B-3	1/2	4	SP
B-3	7-1/2	16	SC
B-4	5-1/2	3	SP
B-4	10	14	SC
B-5	3-1/2	4	SP
B-5	15-1/2	60	CL, CH

CLOSURE

AEI appreciates the opportunity to participate in this project and trusts that the information presented herein is sufficient. Should you have any questions or comments concerning the contents of the report, please do not hesitate to contact the undersigned.

Sincerely,

ANDREYEV ENGINEERING, INC.

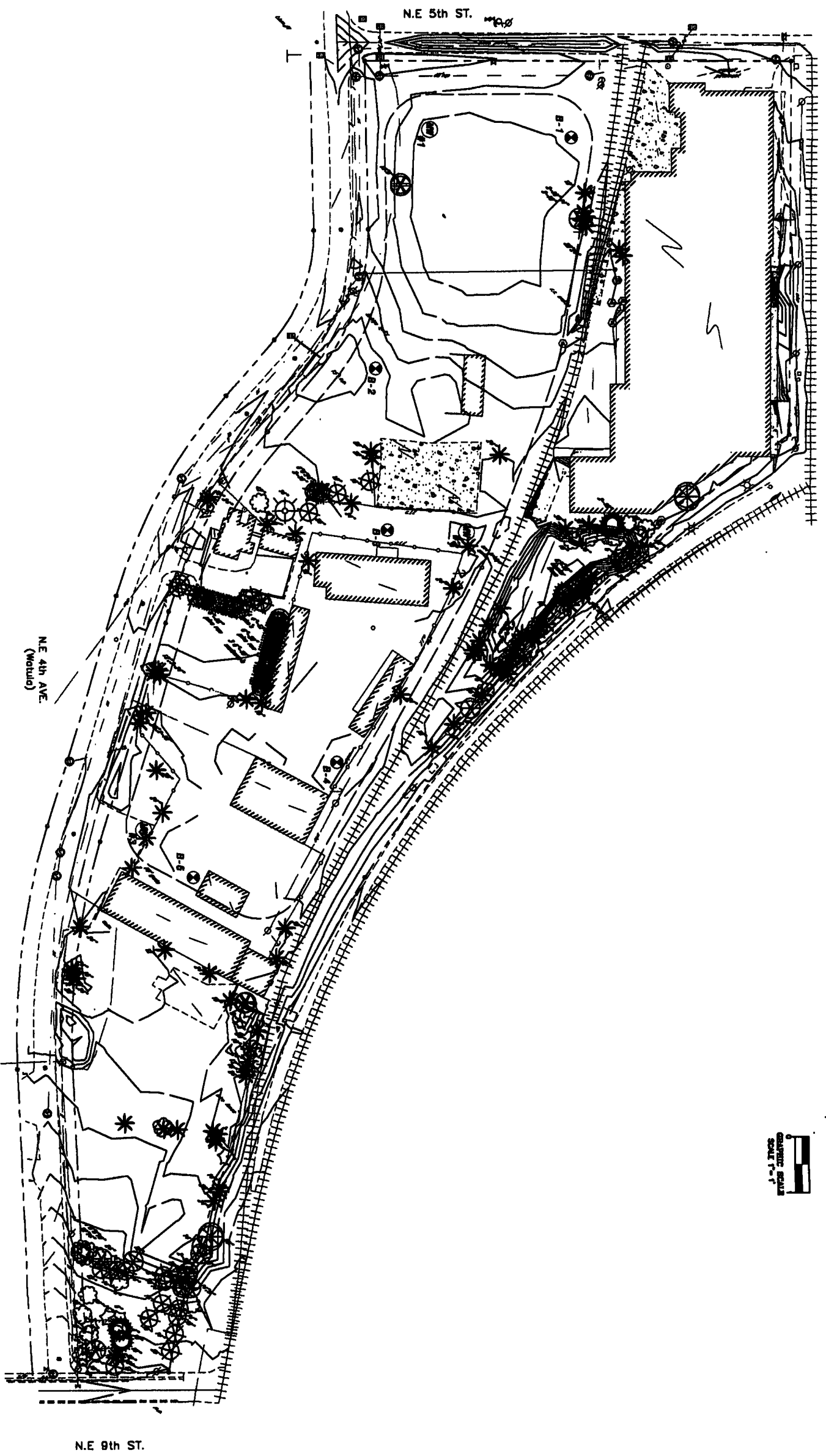


Scott E. Barfield, P.E.
Senior Project Manager
FL Registration # 60852

7-21-04


David J. Rathbun, P.E.
Vice President

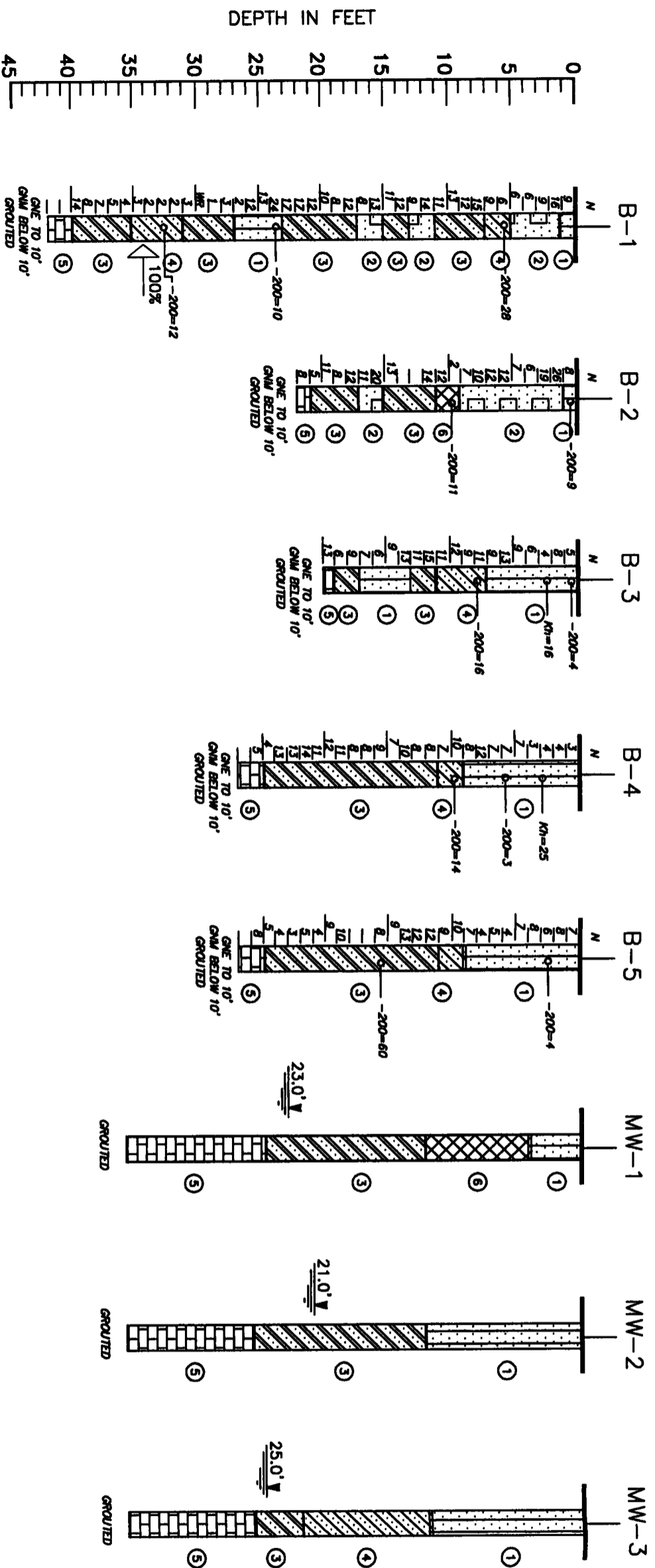
Attachments: Figures 1 and 2



LEGEND


- ⊕ APPROXIMATE SPT BORING LOCATION
- ⊕ APPROXIMATE AUGER BORING LOCATION/PIEZOMETER

 <p>ANDREYEV ENGINEERING, INC.</p>	<p>SCALE: AS NOTED</p> <p>DATE: 7-20-04</p> <p>PROJECT: 0031-04-180</p> <p>ENGINEER: DJR</p> <p>PROJECT: KRVI</p>	<p>GEOTECHNICAL ENGINEERING STUDY</p> <p>LAKE TUSCAVILLA EXPANSION</p> <p>OCCALA, FLORIDA</p> <p>SITE PLAN</p> <p>FIGURE 1</p>
	<p>DATE: 7-20-04</p> <p>PROJECT: 0031-04-180</p> <p>ENGINEER: DJR</p> <p>PROJECT: KRVI</p>	



LEGEND

- ① GRAY TO GRAY BROWN TO BROWN FINE SAND TO FINE SAND WITH SILT (SP) (SP-SM)
 - ② DARK BROWN TO GRAY BROWN FINE SAND WITH SILT AND DEPOSITS OF LIMESTONE AND/OR RED BRICK AND/OR MAN-MADE HARDENED CLAY (SP-SM)
 - ③ GRAY SANDY CLAY TO FAT CLAY (CL) (CH)
 - ④ GRAY BROWN CLAYEY SAND (SC)
 - ⑤ LIMESTONE
 - ⑥ SANDY MUCK/PEAT (Pt)
-
- N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
 - 200 PERCENT OF FINES PASSING THE U.S. NO. 200 SIEVE
 - Kh HORIZONTAL COEFFICIENT OF PERMEABILITY, IN FEET PER DAY
 - WR WEIGHT-OF-ROD
 - GNE GROUND WATER NOT ENCOUNTERED
 - GNM GROUND WATER NOT MEASURED
 - 100% LOSS OF CIRCULATION
 - 23.0' DEPTH TO GROUNDWATER LEVEL

 <p>ANDREYEV ENGINEERING, INC.</p>		<p>ENGINEER: DJR DRAWN BY: KRW</p>	
		<p>DATE: 7-20-04 P.N.: 00CT-04-180</p>	
<p>SCALE: 1" = 10'</p>		<p>FIGURE 2</p>	
<p>ANDREYEV ENGINEERING, INC. Ocala, Florida</p>		<p>GEOTECHNICAL ENGINEERING STUDY LAKE TUSCAVILLA EXPANSION</p>	

Risk MAN. PARKING Lot

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- Print your name and address on the reverse so that we can return the card to you.
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Bryan Abrams
 St. John River Water
 Management District
 Compliance Department
 4049 Reid Street
 Palatka, FL 32177-2529

2. Article Number

(Transfer from service label)

7006 2760 0002 8772 0389

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A. Signature

X *[Handwritten Signature]*

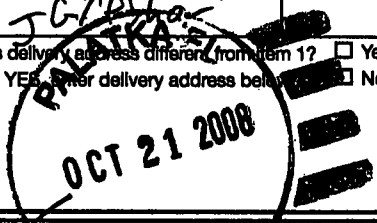
- Agent
- Addressee

B. Received by (Printed Name)

J. G. [unclear]

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- D. Is delivery address different from item 1?** Yes
 If YES, enter delivery address below No



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ENGINEERING



City of Ocala

ENGINEERING DEPARTMENT

CITY HALL ANNEX - Stormwater

405 S.E. Osceola Ave (34471)

P.O. Box 1270

Ocala, FL 34478-1270

270

