

ST. LUCIE WEST SERVICES DISTRICT

SURFACE WATER MANAGEMENT POLICIES & PROCEDURES MANUAL

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SECTION 1

1 INTRODUCTION

The purpose of this section of the manual is (1) to set forth information, procedures, policies, and requirements for preparing applications to obtain (a) preconstruction approval of plans and specifications for facilities that are to become a part of the surface water management system owned and operated by the St. Lucie West Services District ("District"), (b) permission to connect to, place structures in or across, or make use of lands, rights-of-way, easements, facilities, and improvements owned or operated by the District, or (c) permission to withdraw water from District water bodies for irrigation purposes; and (2) to establish policies and procedures governing the reimbursement of costs involved in the construction of facilities to be conveyed to the District as part of its surface water management system. All applications will be reviewed by the District Engineer and submitted for consideration of approval to the District Board of Supervisors.

The approval of an application for (1) (a) or (b) above, if granted, shall be in the form of a District Work Authorization. The approval of an application for (1) (c) above, if granted, shall be in the form of a District Irrigation Withdrawal Authorization. The approval of an application for (2) above, if granted, shall be in the form of a District Reimbursement Authorization.

1.1 WORK AUTHORIZATION

Generally, two different types of District Work Authorizations may be issued. The first type is a Surface Water Management System (SWMS) Work Authorization, which approves the construction and operation of any facility within the geographic boundaries of the District that is to become a part of the surface water management system owned and operated by the District. This type of authorization is not issued in lieu of obtaining a Surface Water Management Permit from the South Florida Water Management District (S.F.W.M.D.), or obtaining any other permit, authorization, or approval from any other agency properly exercising jurisdiction over the proposed construction activity. All projects within the geographic boundaries of the District must apply to the S.F.W.M.D. (and any other agency exercising jurisdiction) for all appropriate permits from those agencies. Nothing contained in the manual is intended to be, and nothing herein should be construed as, inconsistent with any applicable statute, comprehensive plan, ordinance, regulation, development order, or permit of any federal, state, regional, or local governmental agency exercising jurisdiction over activities within the geographic boundaries of the District.

The second type of District Work Authorization, a Right-of-Way (R/W) Work Authorization, is to approve work within any existing District right-of-way or easement, or to any existing District facility or improvement. Where applicable, a District R/W Work Authorization will be issued jointly with a District SWMS Work Authorization.

Issuance of a District Work Authorization does not relieve the applicant of any obligation to obtain appropriate federal, state, regional, and local permits, authorizations, and approvals. No District Work Authorization shall be construed as approving or authorizing any entry or activity upon or injury to private property, nor as expressing the assent of the District to any activity other than that being proposed.

1.2 IRRIGATION WITHDRAWAL AUTHORIZATIONS

Under some circumstances, the District may approve temporary authorization to use, for irrigation purposes, water from District stormwater facilities. Any proposed irrigation withdrawal that exceeds the jurisdictional threshold for a consumptive use permit from the S.F.W.M.D. shall comply with all applicable permitting requirements of that agency.

SECTION 2

2 POLICIES OF THE DISTRICT IN CONSIDERING AND ISSUING WORK AUTHORIZATIONS

- A. No application for SWMS Work Authorization will be approved for any proposed facility or improvement that is inconsistent with S.F.W.M.D. Permit No. 56-00573-S or in the opinion of the District Board of Supervisors would adversely affect District facilities.
- B. No application for R/W Work Authorization will be approved if the proposed activity, in the opinion of the District Board of Supervisors, will interfere with or impose hardships upon District operations, maintenance, or construction activities; or degrade the quality of District waters.
- C. No application for R/W Work Authorization will be approved for use of District facilities if such use would be inconsistent with the surface water management plan of the District.
- D. This manual and all District Work Authorizations issued in accordance with it are subject to change or amendment as necessary or appropriate in light of changed conditions or circumstances or new information.

SECTION 3

3 WORK AUTHORIZATIONS

The issuance of Work Authorizations can be expedited if the applicant contacts the District prior to the submission of a formal application. Pre-application conferences are required for certain types of facilities, as detailed in SECTION 4 below. The design surface water elevations and other pertinent criteria included in this manual may be revised from time to time and applicants are encouraged to verify design criteria prior to initiating their plan preparation. Applications that are based on the correct design criteria from the District will be processed with a minimum of delay.

As used in this manual, “facilities” is defined to include (but not limited to) all water management facilities, lakes, canals, outfall structures, outfall pipes, and drainage basin divides.

3.1 GENERAL CONDITIONS

All Work Authorizations issued by the District will require the applicant:

- A. To abide by the terms and conditions of the District Work Authorization issued.
- B. To maintain any facility or structure, title to which is to remain with applicant, in a good and safe condition.
- C. To hold and save the District and its successors and assigns harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, operation, maintenance or use of the facility or structure involved in the Work Authorization.
- D. To allow inspection at any time by designated District personnel or the District Engineer of any facility or structure to be constructed under a Work Authorization.
- E. To prevent the discharge of debris and/or aquatic weeds such as hyacinths and naiad into any District facility via the applicant’s authorized facility.
- F. To maintain the water quality of all waters discharging into District facilities.
- G. To conform with any alteration of or amendment to this manual that may be deemed necessary by the District Board of Supervisors.
- H. To make any change or repair required by District personnel or the District Engineer to insure the safe operation of the District’s waterways during storm events.

3.2 SPECIAL CONDITIONS

All Work Authorizations issued by the District will contain the following special conditions.

- A. In the event the ST. LUCIE WEST SERVICES District wishes to obtain ingress or egress to its easement and/or right-of-way for the purposes of maintenance of its facilities, the removal and reinstallation of any construction or features approved under this Work Authorization shall be at owner's expense.
- B. In undertaking any of the activities contemplated by this work authorization, the applicant hereby agrees to comply with all federal, state, and local statutes, laws, rules, and regulations governing such activities, including but not limited to water quality standards for off-site discharges; and to abide by all terms and conditions of any permit or other approval issued by any agency exercising regulatory jurisdiction over such activities.
- C. The applicant, by accepting this Work Authorization, covenants and agrees that the ST LUCIE WEST SERVICES District shall be indemnified, defended, protected, exonerated, and saved harmless by the applicant from and against all expenses, liabilities, claims, demands, and proceedings including reasonable attorney's fees in defense of such matters incurred by or imposed upon the District in connection with any claim, proceeding, demand, administrative hearing, suit, appellate proceeding, or other activity, including unfounded or "nuisance" claims, in which the District may become involved, or any settlement thereof, arising out of any operations under this Work Authorization, including but not limited to, use of canal water for irrigation purposes; damage to landscaping; paint damage to automobiles, buildings, or other structures; liability for charges, fees, assessments, fines, and penalties levied by any agency exercising regulatory jurisdiction over any of the activities contemplated by this work authorization; and any property damage or personal injuries, fatal or not-fatal, of any kind or character. The applicant further agrees that any such expense so incurred by the District may be recovered by the District through offset against any claim for reimbursement or other charge that the applicant may assert as due from the District. If any such expense so incurred by the District is not paid upon demand and is placed in the hands of an attorney for collection by suit or otherwise, the applicant hereby agrees to pay all costs of collection and litigation, including, but not limited to reasonable attorney's fees.
- D. By undertaking the construction allowed under this Work Authorization, the Applicant agrees and understands that it is solely responsible for, and shall indemnify and hold the District harmless from, (1) any and all restoration of District owned or controlled properties and facilities required as a result of such construction, and (2) any and all claims of

third parties who currently have facilities located in District owned or controlled property and which facilities are damaged as a result of such construction.

3.3 MODIFICATIONS TO FACILITIES UNDER WORK AUTHORIZATION

Modifications to existing facilities under District Work Authorization can be made after submitting to the District a letter of request to amend the existing Work Authorization, in triplicate, accompanied by adequate drawings, also in triplicate. Approval of the requested change, if approved, will be in the form of a letter of acceptance.

3.4 TRANSFER OF A WORK AUTHORIZATION

By separate agreement, the holder of a District Work Authorization, may allow a third party the use of the approved facility, but such agreement shall be made known to the District. Work Authorizations are not assignable without the specific consent of the District. A valid Work Authorization may be transferred from one owner to a new owner upon request. The request must be made in letter form by the new owner with the consent of the previous owner shown therein.

3.5 REQUESTS FOR WORK AUTHORIZATION APPLICATIONS

Requests for Application for Work Authorization (Exhibit 9) forms can be made in person, by letter, or by telephone directly to the District Engineer's office; Infrastructure Solution Services, 7175 Murrell Road, Melbourne, FL 32940. Telephone: 321-622-4646.

3.6 PREPARATION OF WORK AUTHORIZATION APPLICATION

Instructions for preparing an application, are as follows (refer to Exhibit 9):

- Item 1 - State what use is intended, i.e. bridge crossing, culvert connection, beautification of right-of-way, surface water management system construction, water and sewer connection, etc.
- Item 2 - Self Explanatory (information can be obtained from your deed or tax notice).
- Item 3 - Refers to works involved (i.e. District Lake, Canal, Easement, etc.)
- Item 4 - The person or entity responsible for maintenance of facilities after construction is completed.
- Item 5 - The applicant may be an agent of the owner (i.e. contractor or engineer) to which correspondence will be directed during the application process. If the applicant is an agent of the owner, a letter of authorization from the owner shall be attached.

Item 6 - Of minor importance when not affecting water control. If a bridge is to provide access to owner's property – so state. This information must be completed for culvert and/or pump installations giving capacities as well as acreage being drained or irrigated.

3.7 PREPARATION OF PLANS

Three (3) sets of plans, and one (1) copy of the record plat, boundary survey, or legal description are required; one (1) set of plans will be returned with the approved Work Authorization. Drawings should be to scale or properly and adequately dimensioned. To be acceptable, a drawing or sketch will show a location plan, a plan view and profile view. Drawings for a surface water management system and a drainage outfall connection should consist of complete paving and drainage plans along with one (1) copy of calculations and an engineer's opinion of cost for improvements which qualify for reimbursement under SECTION 5, signed and sealed by a Florida Registered Professional Engineer.

For activities within the District's rights-of-way or easements, the plan and cross section or elevation shall clearly portray the construction in its relationship to the lake, canal, and/or right-of-way. Certain elevations are: lake or canal bottom elevation, water surface elevation and ground elevation expressed in National Geodetic Vertical Datum (NGVD). The elevation of the low member of a bridge span must be shown. For overhead wire crossings and in the case of water or gas lines, low member elevation must also be indicated on the drawings.

3.8 WORK AUTHORIZATION APPLICATION FEES

Fees to be charged for the review of Work Authorization requests will be based on the effort required to review the information. Initial submittals to the District will be accompanied by a minimum application fee as stated below. Additional review fees based on cost of review in excess of the application fee will be collected, if applicable, once the Work Authorization has been approved by the Board of Supervisors and prior to issuance.

Initial Application Fee

A. Surface Water Management System Work Authorizations (Plat & Plans)

- | | | |
|----|--|------------|
| 1. | Less than 10 acres | \$ 1000.00 |
| 2. | Over 10 acres | \$ 1000.00 |
| | (plus \$10.00/acre x total site acreage) | |

B. Right of Way Work Authorizations

1.	Fences/Encroachments	\$150.00
2.	Overhead, Overwater/ Subaqueous Crossings	\$150.00
3.	Sea Walls/Bulkheads	\$100.00
4.	Bridge Crossings	\$500.00
5.	Landscaping	\$250.00

C. Record Plat Review without Engineering Plans \$500.00

D. Water & Sewer Utility Work Authorizations:

1. Residential-\$25.00 per dwelling unit for individual or combined service with a \$750.00 minimum.
2. Non-Residential-\$50.00 per ERC for individual or combined service with a \$750.00 minimum.

3.9 WORK AUTHORIZATION APPLICATION DEPOSIT

In addition to the Work Authorization application fee, applicants requesting a Surface Water Management System Work Authorization will be required to submit a deposit to assure that the authorized construction is completed per the Work Authorization. The deposit will be held by the District and will be released in full following certification of completion by a Florida registered engineer and inspection of the facilities by District staff. Should the final inspection identify items of work that require repair, the applicant will be required to repair and call for a re-inspection. Should the applicant not make the final repairs, the District upon action by the Board of Supervisors, and written notice to the applicant, may utilize the deposit for repair and or replacement of the facilities. Use of the deposit by the Board of Supervisors in this manner shall not relieve the applicant from costs associated with making repairs beyond that which the deposit would cover and the District reserves the right to seek legal remedy to recover such costs.

Deposit Amount for SWMS Work Authorizations

1. Less than 10 acres \$ 1000.00
2. Over 10 acres \$ 1000.00 plus \$100.00/acre x total site acreage

Deposits collected in connection with Work Authorization approvals under Paragraph 3.9 of this Policies and Procedures Manual shall be withheld until such time as the project is completed and the applicant requests release.

Release of deposit shall be contingent on the District Engineer receiving the following information:

- Engineer's certification that the project has been completed in conformance with the plans approved by the District.
- Two sets of record drawings
- Letter requesting release of the deposit with a name and address to whom the check can be mailed.
- A point of contact for corrective actions should they be required.

Following receipt of the above listed information by the District Engineer, the District will perform a field review of the completed construction to determine if the project is complete. Once the project is deemed complete, a letter requesting release of the deposit will be forwarded to the District Manager's office for processing.

Should the District determine that the project does not meet the requirements of the Work Authorization, a punch list will be prepared and no funds will be released until such time as those items have been corrected to the satisfaction of the District Engineer.

The Deposit will be held until such time as the project is deemed complete, or 12 months following initiation of water service to the project. Should the applicant, or his designee, not request release of the deposit within the 12 month period, or not complete punch list items within six months of receipt of the list by the applicant, the applicant will forfeit all rights to the deposit and the District may transfer the deposit to its general fund (i) to defray the cost of any corrective action (including but not limited to obtaining any certification not provided by the applicant), without waiver of any claim by the District for additional corrective costs incurred in excess of the forfeited deposit, and (ii) for operation of the storm water system.

3.10 WORK AUTHORIZATION INSPECTION FEE

All applicants requesting a Surface Water Management System (SWMS) Work Authorizations shall pay an inspection fee as required by the District. The inspection fee for each SWMS Work Authorization shall be \$500 plus 2% of the total cost of all reimbursable construction approved by the District.

SECTION 4

4. DESIGN CRITERIA FOR WATER MANAGEMENT FACILITIES

4.1 SURFACE WATER MANAGEMENT PERMITS

4.1.1 WATER QUANTITY

A. FLOOD PROTECTION

Projects located within the St. Lucie West Services District shall provide flood protection in conformance with Exhibit 7 of this manual. This flood protection is based upon minimum elevations as determined by the following criteria.

1. * Road Centerlines – 10 year, 1 day duration.
Minimum Perimeter Grades – 25 year, 3 day duration.
2. Design Discharge – 25 year, 3 day duration.
3. Minimum Finished Floor-100yr, 3day, 0 discharge

* NOTE: Minimum road crowns with an asterisk (*) have been permitted based upon a 5 year, 1 day duration.

B. ALLOWABLE DISCHARGE

The St. Lucie West Services District operates its surface water management system under S.F.W.M.D. Permit No. 56-00573-S issued 11/12/87. This permit authorizes a discharge of 600 c.f.s. from the site with 400 c.f.s. allotted to the C-108 Canal and 200 c.f.s. to the Elkcam Waterway. Projects within basins are not required to restrict discharges as long as the control structure designated for that basin is in place and operational.

C. MINIMUM DISCHARGE

Commercial and Industrial projects to be subdivided for sale are required to have installed by the applicant as a minimum:

1. The required water quality system for one inch of detention or one-half inch of runoff retention from the total developed site.

2. A stormwater collection and conveyance system to interconnect the retention/detention system with the outfall with access points to the system available to each individual lot or tract. The system shall be designed to limit discharge under design conditions to the allowable discharge.

4.1.2 WATER QUALITY

A. STATE STANDARDS

Projects shall be designed so that discharge will meet state water quality standards, as set forth in F.A.C. Chapter 17.3.

B. RETENTION/DETENTION CRITERIA

Retention and/or detention in the overall system including swales, lakes, canals, greenways, etc., shall be provided for as required by the current S.F.W.M.D. "Basis of Review". Figures in Exhibit 1 of this section can be used as a guide for determining minimum wet detention areas. If an underground exfiltration system is proposed for meeting minimum retention/detention requirements, S.F.W.M.D. criteria established and contained within "Basis of Review", Volume IV, latest edition shall be used.

C. PRETREATMENT

Commercial or Industrial zoned projects shall provide at least one half inch of dry detention or retention pretreatment as a part of the required retention/detention volumes.

D. PRE-APPLICATION CONFERENCE

The District shall be the judge in determining whether a project or basin meets the retention/detention volume minimums established for each basin. A pre-application conference is encouraged for all projects proposed within the boundaries of the District for these purposes.

4.1.3 ENVIRONMENTAL

A. WETLANDS INVENTORY

A fundamental concept of the Environmental Plan for the St. Lucie West Services District is the protection and enhancement of existing wetlands and the mitigation for impacted wetlands.

An exhaustive and in depth inventory of the wetlands within the District boundaries was conducted for both quantity and quality. Exhibit 8 of this manual lists those wetlands which are to be preserved by the Basin in which they can be found. This table also indicates the elevation at which such vegetation becomes evident.

B. UPLAND PRESERVE

A minimum upland preserve area of 15 feet from the delineation of these wetlands shall be maintained and set aside as a conservation area and so dedicated in perpetuity. Furthermore, a 50 foot average upland preserve area shall be maintained around the perimeter of these wetlands and also be dedicated.

It is required that water quality protection in the form of one-half inch of dry retention be provided before the diversion of any storm water runoff into any wetland. This requirement typically applies to areas where the runoff is generated from impervious surfaces or golf course areas.

C. LAKE/WETLAND SEPARATION

Lakes which may adversely affect the function of wetland areas shall be separated from the actual wetland boundary by a minimum distance of 200 feet unless tests, calculations or other information can demonstrate that such encroachment will have no detrimental effect on the function of the wetland.

Slurry walls or impermeable barriers may also be used in cases where encroachment within this 200-foot area is proposed.

D. WETLAND MITIGATION

Those wetlands not contained within Exhibit 8 “Preserve Wetlands by Basin”, are considered to be impacted.

Impacted wetlands shall be mitigated for a 1:1 basis and mitigation shall be provided for in that phase of construction in which the wetland is impacted.

Mitigation methods shall be in conformance with the St. Lucie West Environmental Master Plan prepared by CZR, Inc., dated January 1988.

Alternative mitigation methods will be reviewed on a case-by-case basis and will also require approval from S.F.W.M.D.

Wetland mitigation monitoring and maintenance programs will be required for a period of three (3) years following construction. Reports with regard to monitoring and maintenance will be required on a bi-yearly basis for three years.

The District reserves the right to require the re-vegetation of mitigated wetlands if performance does not meet District standards.

4.1.4 CONSTRUCTION

A. DISCHARGE STRUCTURES

1. All design discharges shall be made through structural discharge facilities using acceptable District materials. Earthen berms or concrete spillways shall only be used to disperse or collect sheetflow from ditches and swales. In the case of wetlands, berms and spillways are only acceptable when used to disperse the flow of water to wetlands. Exhibit 4, "Wetland Control Structure Detail" is the only acceptable method of collecting runoff from wetland areas.
2. Discharge structures shall be fixed so that discharge cannot be made below the control elevation. The District may, at its sole discretion, consider approval of adjustable control structures meeting the requirements of the District's Memorandum of Understanding with the South Florida Water Management District.
3. Discharge structures shall include a "baffle" system to encourage discharge from the center of the water column rather than the top or bottom.
4. The control structure overflow design shall be based upon the 25 year, 3 day storm event. Control Structures are outlined in Exhibit 6.
5. No deviations from Exhibit 6 are permitted without prior approval from the District and S.F.W.M.D.
6. It is required that head loss between an upstream control structure and the next downstream pool not exceed 0.5 feet. Calculations shall be submitted to indicate this amount is not being exceeded.
7. Pumped systems are not acceptable.

B. CONTROL BLEEDOWN DEVICES

1. No temporary control structures are permitted other than those listed in Exhibit 6.
2. Dry Retention/Detention Systems
 - a. Dry retention/detention areas shall have a mechanism for returning the groundwater level in the area to the control elevation.
 - b. The design of such areas shall incorporate considerations for regular maintenance and harvesting of vegetation.
 - c. For systems to be considered dry, a bottom elevation of 1-foot (minimum) above control elevation shall be required.
 - d. Gravity control devices shall be of a “V” shaped configuration to increase detention time during minor events.

C. EXFILTRATION SYSTEMS

1. Dry exfiltration systems are ones where the pipe invert is at or above the average wet season water table.
2. Methods of calculating exfiltration trench requirements shall meet S.F.W.M.D. standards.
3. Minimum Requirements:
 - a. Trench width - 3 feet
 - b. Pipe diameter - 12 inches
 - c. Maintenance sumps in all inlets
4. Rock in the trench must be enclosed in filter material, at least on the top and sides. Areas where any overlap of the fabric occurs, shall maintain a minimum overlap of 2 feet.

D. WATER BODIES

Water bodies shall meet the following criteria:

1. Area – 0.5 acres minimum.

2. Width – 100 feet minimum at control elevation for linear areas in excess of 200 feet in length. Irregular areas should average at least 100 feet. Area requirements will only be waived when a shallow water body is located within a golf course.
3. Depth – A minimum of 20 percent of the area shallower than 6 feet is required up to 2.5 percent of the project waterbody and 25 to 50 percent of the area shall be 12 feet deep. Depths may exceed 12 feet where fill requirements or suitability of material is a consideration, however District reimbursement policies do not exceed 12 feet.
4. Side Slopes – For purposes of public safety, water quality enhancement and maintenance, all wet retention/detention areas should have slopes consistent with Exhibit 3. Side slopes should be planted or nurtured from 2 feet below control elevation to one foot above, to promote vegetation growth. Littoral zone vegetation growth survival shall be a consideration for District reimbursement.
5. Bulkheads – Bulkheads may be allowed for no more than 40 percent of the shoreline length. If the bulkhead option is utilized, compensating littoral zone may be required.
6. Littoral Zones – The District encourages and recognizes the planting of an acceptable shallow wetland mitigation shelf consistent with the St. Lucie West Environmental Master Plan as meeting the littoral zone requirement.
7. Interconnecting Culverts – Culverts connecting pools within a basin shall be designed so as to not exceed .15 feet of head loss between pools.
8. Maintenance Areas – Perimeter maintenance and operation easements of 20 feet in width with side slopes no steeper than 4:1 (horizontal/vertical) should be provided beyond the control elevation water line.
9. Drainage Connections to Water Bodies – Where headwalls are not proposed for culverts connecting to water bodies, a minimum of 1 foot elevation measured from control shall exist above the top crown of the pipe.

E. DESIGN INFORMATION

1. Surface Storage – Individual projects must demonstrate that surface storage and/or lake area is provided in accordance with Table I of this Section.
 - a. Storage requirements at the elevations specified are derived from approved S.F.W.M.D. stage versus storage relationships for each basin. Each project must provide its prorated share of the overall storage for each basin to insure that flood plain encroachment will not occur.
 - b. The storage requirements in Exhibit 1 are based upon the amount of open area (total area – [lake area and slabs]) on each project. The volume of storage required is obtained by multiplying the appropriate ratio by the acres of open space on the project.
 - c. The District reserves the right to determine the impacts for projects which do not meet the minimum surface storage requirements based upon all information submitted by the applicant. Circumstances such as, surrounding natural or developed elevations, District road elevations adjacent to the project, percent of impervious or building area on the site which might mitigate adverse impacts to District facilities, will be considered.
2. Road Crowns and Finished Floor Elevations
 - a. Road Crown Elevations will be set no lower than those elevations indicated in Exhibit 7.
 - b. Finished Floor Elevations will be set no lower than those elevations indicated in Exhibit 7.
 - c. As it may be necessary for the Conceptual Permit for lands within the St. Lucie West Services District to be revised from time to time the project developer or his agent is solely responsible for the verifying that Basin Stage Elevations shown in Exhibit 7 are current.

4.2 RIGHT-OF-WAY PERMITS

4.2.1. BRIDGE CROSSINGS

Due to the relatively small differential between control elevations and minimum road crown elevations it is not generally anticipated that bridge crossings will be constructed within the District. The District will, however, consider special requests from applicants who may wish to construct a bridge crossing for aesthetic reason. Applications for bridge crossings will be considered based on clear opening between bents, vertical clearance between control and low member, and piling alignment to assure that they will not catch debris or interfere with the normal flow of water.

A preapplication conference with the District Engineer is required prior to submittal of a formal application to the Board of Supervisors. Applicants should at that time present preliminary sketches of plan and profile views along with channel cross-section, pile layout and hydraulic calculations to support the request. Following the preapplication conference the District Engineer will make his recommendations to the Board of Supervisors and the applicant will be notified of the proposals acceptability.

The District will not consider any cost reimbursement for bridge construction within the District.

4.2.2. UTILITY CROSSINGS

A. Overhead Crossings

Overhead power and telephone line crossings must have a minimum vertical clearance of forty (40) feet between low wire elevation and elevation of the berm or natural ground, whichever is greater.

When such installations cross District levees, a minimum clearance of twenty-five (25) feet between low wire elevation and top of the levee will be required.

B. Overwater Crossings

When such construction is supported on pilings, the required horizontal clearance between pilings is fifteen (15) feet minimum. The required vertical clearance is six (6) feet above control elevation or one (1) foot above the 100 year, 3 day storm, whichever is greater. (See Exhibit &). The District reserves the right to determine which of the two elevations will be controlling in establishing the vertical clearance. Should installation be made adjacent to an existing bridge, piling will be aligned with the

bridge piling, so that a minimum of obstruction to the flow of water by accumulation of debris is assured.

C. Subaqueous Crossings

Subaqueous crossings of any nature, such as cables, water or fuel (gas) lines, etc., shall be laid to a predetermined depth and cross-section that will provide for two (2) foot cover below the design bottom elevation. This depth and section will be furnished by the District for each crossing. Should conditions warrant the laying of a cable on the bottom of the channel, such is done so at the permittee's risk.

4.2.3. SEA WALLS, BULKHEADS

Construction of sea walls or bulkheads, not detrimental to the water control program, may be approved by appropriate Work Authorization. Each application will be judged on its merits and must meet the requirements of the specific location.

The applicant should contact the District prior to permit application for the local requirements in the area.

4.2.4. FENCES

Fencing on District rights-of-way or within District utility easements that would prohibit continuous access are not allowed; however, under certain conditions fencing upon right-of-way or easements may be authorized by Work Authorization.

If a fence is authorized, a 12-foot gate or removable section of fence will be required. Certain areas may require larger gates to accommodate District access. A key for each lock shall be forwarded to the District for use in emergency or maintenance situations.

4.2.5. BEAUTIFICATION/GRADING

Grass, low plantings, and the construction of removable fences are permissible within the District's right-of-way, with the understanding that such improvements are made at the risk and peril of the applicant for R/W Work Authorization and are subject to prompt removal by the applicant at his expense upon notification by the District. Upon failure of the applicant to remove such improvements when so requested, the District may remove or otherwise destroy the same without liability or responsibility.

Development which abuts a District water management tract may apply for a Right-of-Way Work Authorization in order to upgrade the existing area with landscaping, sod or irrigation. Each request will be reviewed individually and certain long term maintenance considerations will be addressed as part of that review. If a future District water management tract is under construction at the same time as the adjacent development and the developer using an approved Right-of-Way Work Authorization sods around the future water body in lieu of seeding, he is eligible for a grassing reimbursement from the District; not to exceed the District's existing contracted unit price for grass seeding and mulching.

If sod is to be used on District lake banks, the sod should be clean, strongly rooted, uniformly sized strips, machine stripped not more than 24 hours prior to laying. Sod shall be laid with tight joints, rolled or tamped lightly and watered thoroughly.

In certain areas, individual homeowners may desire to regrade an existing canal or lake bank (for reasons of aesthetics, sight lines, etc.). R/W Work Authorizations for R/W regarding may be approved subject to the following standards and criteria:

1. 6 to 1 maximum slopes on the maintenance side of a canal down to the water line with a minimum of fifteen (15) feet between the water line and the right-of-way line.
2. 4 to 1 maximum slope on lake banks.
3. The minimum design dimensions of the canal or lake cannot be decreased.
4. It is desired, wherever possible, to continue the side slope down two (2) feet below the normal water elevation.
5. In areas where the District canal or lake is to be enlarged (for borrow material, etc.), a minimum of twelve (12) feet of water depth is required.

In areas where the canal bank slope is altered, the applicant must acknowledge that during flood events canal water may rise up and beyond the canal right-of-way line.

SECTION 5

5 IRRIGATION WITHDRAWAL AUTHORIZATION

All lands within the St. Lucie West Services District are required to use treated effluent from the St. Lucie West Treatment Plant to irrigate. Should the supply of treated effluent not be available to the site under consideration, temporary authorization to use water from District water bodies for irrigation purposes may be granted.

Installation of supply lines within District rights-of-way for withdrawal of water from District canals for irrigation purposes may be authorized under an appropriate Work Authorization. Supply lines shall be installed at a minimum elevation of 0.5 feet below the basin control elevation.

No pump shall be installed or located on any District right-of-way or easement.

If the applicant proposes to withdrawal in excess of 100,000 gallons per day, the applicant must apply to the S.F.W.M.D. for and obtain a Consumptive Use Permit under FAC Chapter 40E-2.

The applicant for irrigation withdrawal authorization shall notify the District at least 60 days prior to intended operation of irrigation facilities. The following information shall be supplied to the District:

- A. Applicant's name and address
- B. Date withdrawal will begin
- C. Source of supply
- D. Estimated quantity to be withdrawn per day
- E. Land use being served
- F. Location of points of withdrawal
- G. Number and size of pumps

Each irrigation withdrawal authorization shall be valid for a period not exceeding twelve (12) months. If irrigation withdrawal is required for a period exceeding 12 months, an applicant may apply for an extension prior to expiration of the initial authorization period.

Holders of irrigation withdrawal authorizations are subject to notification at any time that withdrawal must be curtailed or ceased immediately. In such event, the authorization holder shall immediately comply with the directive contained in the notification to curtail or cease, and shall not resume irrigation withdrawal at the previously authorized rate until further notification from the District.

SECTION 6

6 REIMBURSEMENT OF CONSTRUCTION COSTS

Developers who construct in accordance with a SWMS Work Authorization, culvert connections, control structures, wetland mitigation areas, roadways that are designated as drainage divides, and other surface water management facilities and improvements that, when completed, will become a part of the surface water management system of the District, may apply to the District for reimbursement of construction costs upon satisfactory completion of the facilities. If the applicant applies for reimbursement, they will be required to provide the District an itemized breakdown of the cost of the materials and installation prior to receiving any reimbursement from the District. Once the reimbursement is approved the District, the applicant must agree to convey to the District all right, title, and interest in the facilities and improvements for which reimbursement has been sought.

No reimbursement shall be authorized for any facility or improvement that will not constitute a part of the District's surface water management system as described in its surface water management plan. All requests for reimbursement, if approved, shall be allowed on the following basis:

- A. CLEARING of lakes and easements for pipe installation (including disposal of cleared material) to the limits of the Water Management Tract or Easement as shown on the record plat.
 - Reimbursement for items under this paragraph shall be based on executed construction contracts and an engineer's certification of reasonable costs.
- B. LAKE EXCAVATION within Water Management Tracts meeting current S.F.W.M.D. minimum size criteria to the maximum depth shown on Exhibit 3.
 - Reimbursement for items under this paragraph shall be based on executed construction contracts and an engineer's certification of reasonable costs.
- C. SEEDING, MULCHING OR SODDING of lake and canal banks and maintenance berms to the limits of the Water Management Tracts as shown on the record plat.
 - Reimbursement for items under this paragraph shall be based on executed construction contracts and an engineer's certification of reasonable costs.

- D. INTERCONNECTING CULVERTS allowing for the flow of water between Water Management Tracts including access structures (manholes) not to exceed one structure for each 400 feet of culvert. Reimbursement for structures placed at changes in direction to accommodate site plans will not be made unless the total length of interconnecting culvert exceeds 400 feet.
- Reimbursement for items under this paragraph shall be based on executed construction contracts and an engineer's certification of reasonable cost.
- E. CONTROL STRUCTURES which are a part of the overall Water Management System identified in S.F.W.M.D. Permit No. 56-00573-S.
- Reimbursement shall be based on executed construction contracts and an engineer's certification of reasonable costs.
- F. LIMITED ROADWAY CONSTRUCTION in areas where the roadway is an integral part of the drainage basin boundary. Roadway cost reimbursement shall not include asphalt surface or curbs and gutters.
- Reimbursement shall be made based on executed construction contracts and an engineer's certification of reasonable cost.
- G. WETLAND MITIGATION that complies with the St. Lucie West Environmental Master Plan prepared by CZR, Inc. and which is done to repair, enhance or replace wetland areas designated in the S.F.W.M.D. plan as wetlands requiring mitigation. (See Exhibit 8)
- Reimbursement shall be made based on executed construction contracts and an engineer's certification of reasonable cost.

The District reserves the right to determine which improvements qualify for reimbursement under this section. No reimbursement will be made for partially completed systems unless the project is authorized as a "Phased Project" and phased opinions of cost are submitted and approved together with the applicable Surface Water Management System Work Authorization request.

The District reserves the right to determine reasonable cost. Reasonable cost may be determined by previous cost history on current market conditions and will be ultimately approved by the District's Board of Supervisors.

Requests for reimbursement will be accepted for consideration by the Board upon completion of the facilities, or a phase of the facilities if phasing was approved, when the applicable Surface Water Management System Work Authorization was approved. Requests for reimbursement shall include:

1. Two sets of prints and one set of mylar reproducible record drawings signed and sealed by a Florida Registered Professional Engineer. The prints shall be highlighted to indicate placement of reimbursable works.
2. Engineer's certification of completion signed and sealed by a Florida Registered Professional Engineer.
3. Before and after cross-sections of lakes and canals including Top of Bank, E.O.W. and lake bottom elevations along with cross slope designations (i.e., 4H:IV) for above and below control water elevation and engineer's as-built earthwork calculations for projects requesting lake excavation reimbursement.
4. Maintenance surety in the form of a letter of credit, cash escrow, bond, or other form acceptable to the Board of Supervisors assuring that the applicant will, upon notification by the District, cause to have corrected any defective or faulty work or materials which appear after reimbursement. Amount and duration of surety shall be as follows:

Discharge Structures & Culverts	10%	1 Year
Lake Excavation	10%	1 Year *
Seed, Mulch & Sod	100%	1 Year
Wetland Mitigation	100%	3 Years

* The District shall maintain a minimum of \$3000 per lake or \$2.00 per lineal foot of lake bank, whichever is greater, until such time as all vertical home construction on lots adjacent to the lake have been completed.

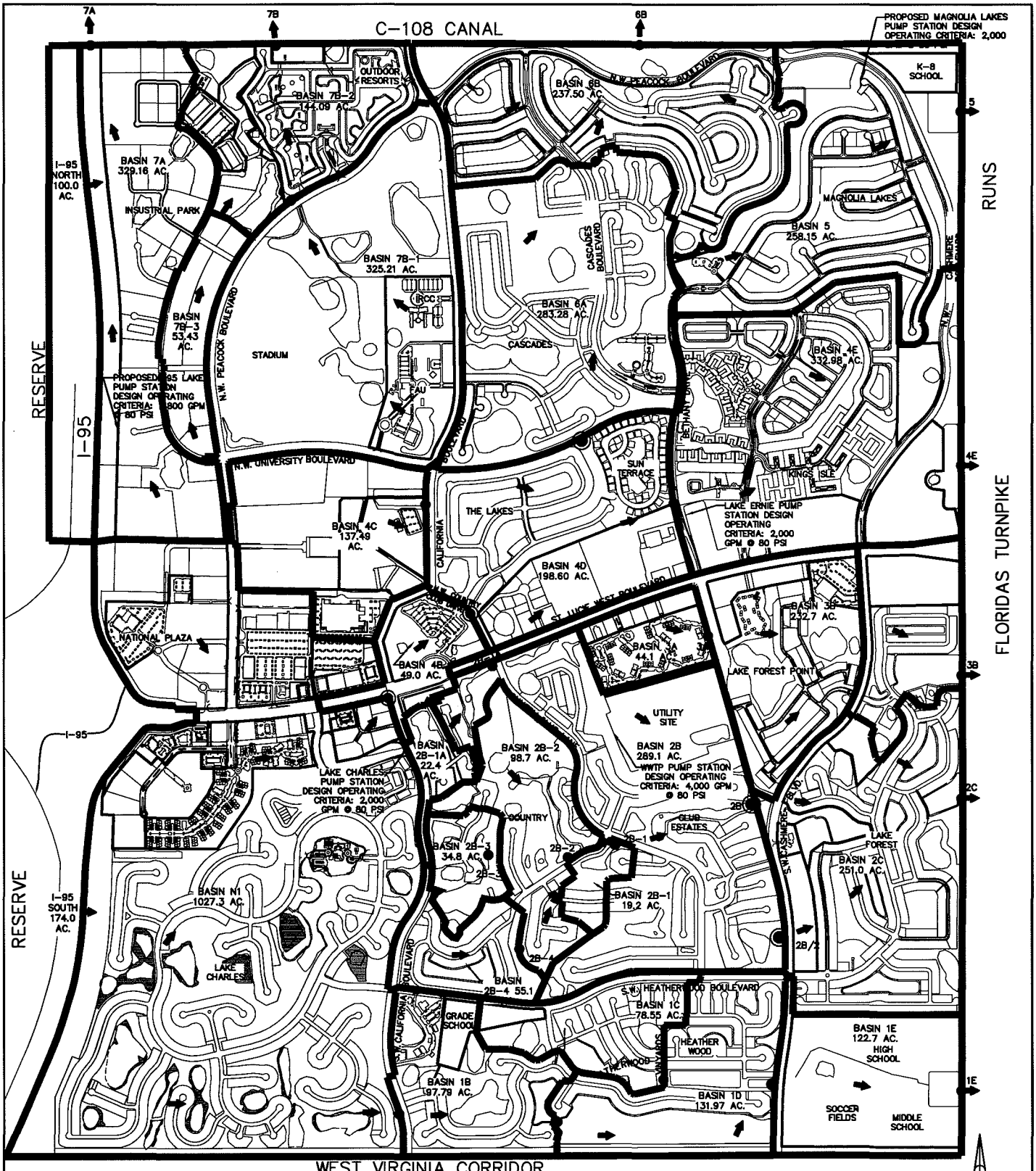
The applicant shall convey to the District, contemporaneously with reimbursement as approved by the Board of Supervisors, all of its right, title and interest in the facilities and improvements for which reimbursement has been sought.

Such conveyance shall be by Deed, Bill of Sale, Grant of Easement, Plat Dedication, Assignment of Reservation, Assignment of Dedication, or other instrument or group of instruments in such form and as otherwise determined necessary by the District engineer and counsel to convey all right, title, and interest in the involved facilities and improvements.

**ST. LUCIE WEST
SURFACE WATER MANAGEMENT DATA**

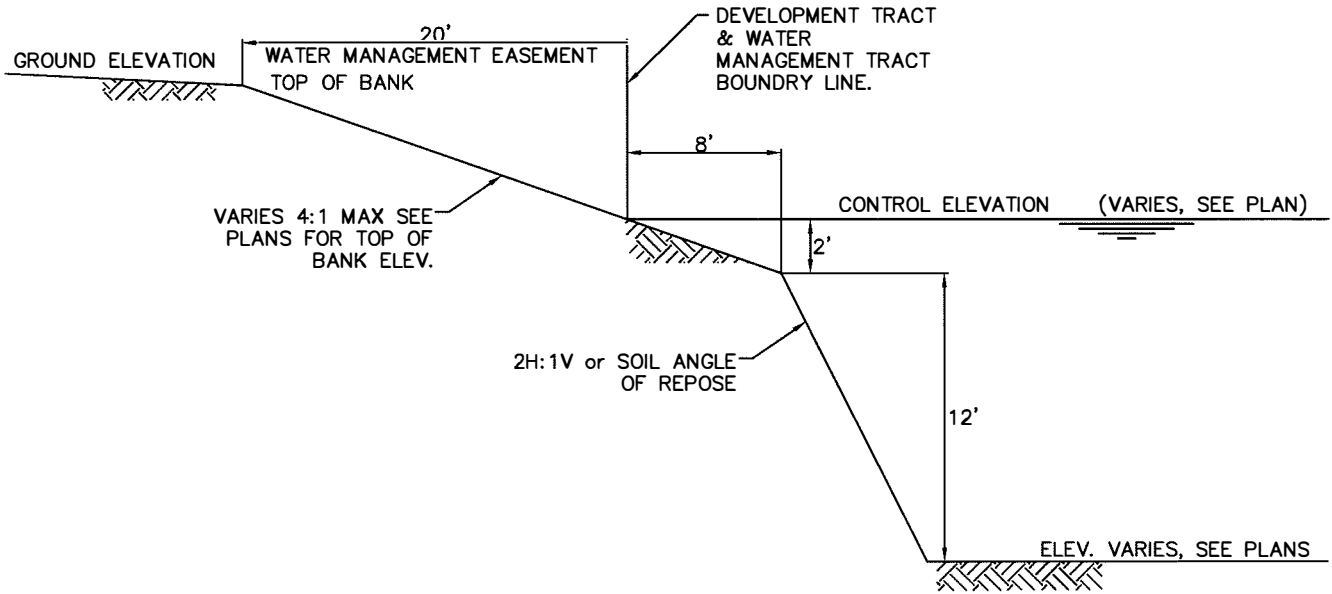
<u>BASIN NO.</u>	<u>TOTAL REQUIRED LAKE AREA</u>	<u>CONTROL ELEVATION</u>	<u>TOTAL ACERAGE</u>	<u>REQUIRED¹ LAKE AREA</u>
N1/ I95	122.63	24.50	1027.30	0.119
1B	3.20	23.00	97.79	0.033
1C	8.52	21.50	78.55	0.108
1D	45.77	20.00	131.97	0.347
1E	12.30	18.50	122.70	0.100
2B-4	5.12	23.00	55.10	0.093
2B-3	1.11	23.00	34.80	0.032
2B-2	5.60	22.00	98.70	0.057
2B-1	2.40	21.00	19.20	0.125
2B-1A	1.55	21.50	22.40	0.069
2B	29.58	20.00	289.10	0.102
2C	25.90	18.50	251.00	0.103
3A	3.52	20.00	44.10	0.080
3B	24.00	18.50	232.70	0.103
4B	6.24	22.50	49.00	0.127
4C	20.59	23.00	137.49	0.150
4D	20.40	20.00	198.60	0.103
4E	37.87	18.50	332.98	0.114
5	49.86	18.50	258.15	0.193
6A	26.24	20.00	283.28	0.093
6B	27.57	18.50	237.50	0.116
7A/ I95	21.00	24.50	329.16	0.857
7B-1	26.48	22.00	325.21	0.081
7B-2	11.16	22.00	144.09	0.077
7B-3	0.00	24.50	53.43	0.000

¹Amount of lake surface required per Acre of Development Tract



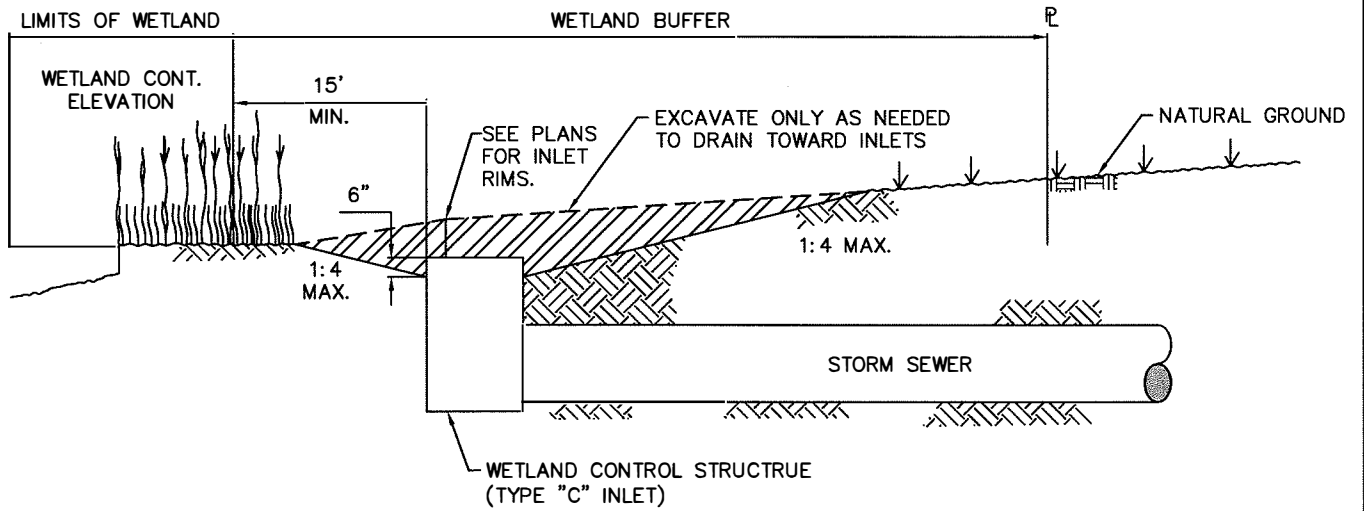
- 1A ● CONTROL STRUCTURE
- WETLAND NUMBER
- BASIN DIVIDE
- 4A ● CONTROL STRUCTURE MODIFICATION
- - - BASIN MAINTENANCE ROADWAY
- ➔ DIRECTION OF FLOW

© 2004 ARCADIS G&M, INC. 2081 Vista Parkway West Palm Beach, Florida 33411 Tel: (561) 697-7000 Fax: (561) 697-7751 www.arcadis-us.com	SHEET TITLE EXHIBIT 2	PROJECT MANAGER RWL	LEAD DESIGN PROF. RWL	CHECKED BY RWL
	EB 7917 / LB 7062	DEPARTMENT MANAGER TJ	TASK/PHASE NUMBER B662	DRAWN BY ADS
		SCALE N.T.S.	PROJECT NUMBER WF003600	DRAWING NUMBER 1 OF 1
		DATE 4-30-08		



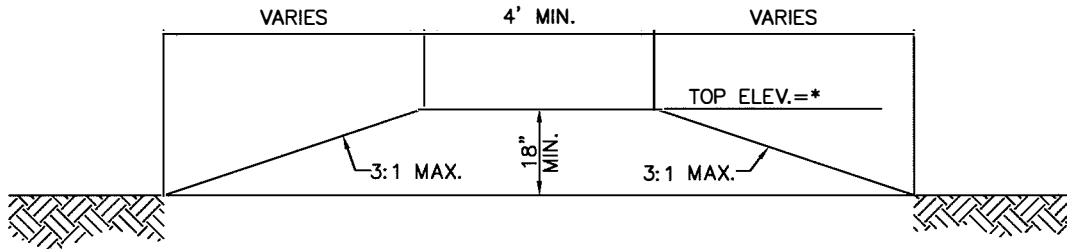
TYPICAL LAKE SECTION
 N.T.S.

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			EXHIBIT 3			RWL	RWL	RWL
						DEPARTMENT MANAGER	TASK/PHASE NUMBER	DRAWN BY
						TJ	B662	ADS
						SCALE	PROJECT NUMBER	DRAWING NUMBER
NTS	WF003600	1 OF 1						
DATE								
4-30-08								



WETLAND CONTROL STRUCTURE
 N.T.S.

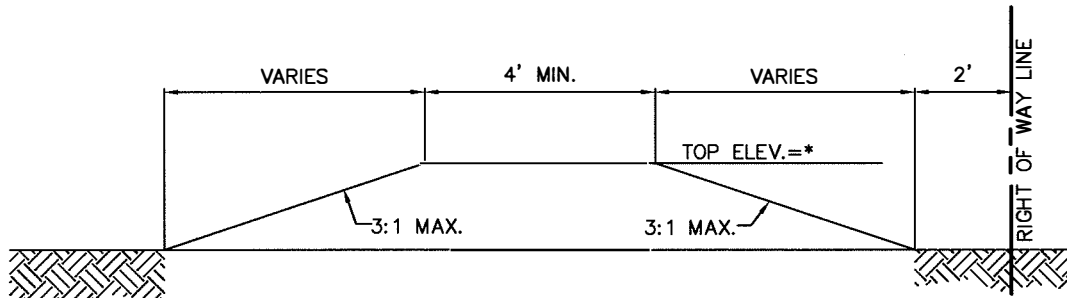
© 2004 ARCADIS G&M, INC. 2081 Vista Parkway West Palm Beach, Florida 33411 Tel: (561) 897-7000 Fax: (561) 897-7751 www.arcadis-us.com	SHEET TITLE EXHIBIT 4	PROJECT MANAGER RWL	LEAD DESIGN PROF. RWL	CHECKED BY RWL
		DEPARTMENT MANAGER TJ	TASK/PHASE NUMBER B662	DRAWN BY ADS
		SCALE NTS	PROJECT NUMBER WF003600	DRAWING NUMBER 1 OF 1
		DATE 4-30-08		



* SEE ST. LUCIE WEST BAISON STAGE SUMMARY FOR 25 YEAR STAGE. TOP SHALL BE SET AT OR ABOVE 25 YEAR, 3 DAY STAGE.

DRAINAGE BASIN DIVIDE (BERM)

N.T.S.



* SEE ST. LUCIE WEST BAISON STAGE SUMMARY FOR 25 YEAR STAGE. TOP SHALL BE SET AT OR ABOVE 25 YEAR, 3 DAY STAGE.

DRAINAGE BASIN DIVIDE (BERM)
ADJACENT TO ROAD R/W

N.T.S.

© 2004 ARCADIS G&M, INC. 2081 Vista Parkway West Palm Beach, Florida 33411 Tel: (561) 697-7000 Fax: (561) 697-7751 www.arcadis-us.com	EB 7917 / LB 7062	SHEET TITLE		PROJECT MANAGER	LEAD DESIGN PROF.	CHECKED BY
		EXHIBIT 5		RWL	RWL	RWL
				DEPARTMENT MANAGER	TASK/PHASE NUMBER	DRAWN BY
				TJ	B662	ADS
SCALE	PROJECT NUMBER	DRAWING NUMBER				
NTS	WF003600	1 OF 1				
DATE						
4-30-08						

ST. LUCIE WEST SERVICES DISTRICT OUTFALL STRUCTURE SUMMARY

<u>Basin No.</u>	<u>Structure Description</u>
1A	One 2.15-foot wide x .80-foot high rectangular orifice set at elevation 24.50 feet and one 7.3-foot wide weir set at evaluation 27.00 feet.
1B	One 102.7 degree V-notched bleeder set at elevation 23.00 feet and one 2.34-foot wide weir set at elevation 23.80 feet.
1C	One 2.9-foot wide weir with a crest at elevation 22.30 feet and one 121 degree V-notched bleeder with an invert set at elevation 21.50 feet.
1D	One 2.5-foot wide weir with a crest at elevation 20.60 feet and one 113 degree V-notched bleeder with an invert set at elevation 20.00 feet.
1E	One 3.8-foot wide weir with a crest at elevation 19.80 feet and one 132 degree V-notched bleeder with an invert set at elevation 18.50 feet.
2A	One inverted triangle with a height of 1.3 feet and a top width of 2.0 feet set at elevation 24.50 feet and one .563-foot wide weir set at elevation 26.00 feet.
2B-4	One inverted triangle with a height of .75 feet and a top width of 1.22 feet set at elevation 23.00 feet and one 2.0-foot wide weir set at elevation 24.00 feet.
2B	One 4.0-foot wide weir with a crest at elevation 20.80 feet and one 136.0 degree V-notched bleeder with an invert at elevation 20.00 feet.
2C	One 130.0 degree V-notched bleeder set at invert elevation 18.50 feet and one 7.75-foot wide weir set at elevation 19.50 feet.
3A	One 33 degree V-notched bleeder set at invert elevation 20.0 feet and one 1.25-foot wide weir set at elevation 21.50 feet.
3B	One inverted triangle with a height of .88 feet and a top width of 3.4 feet set at elevation 18.50 feet and one 1.75-foot wide weir set at elevation 19.50 feet.
4A	One 4.1-foot wide x .86 feet rectangular orifice set at elevation 24.50 feet and one 10.5-foot wide weir at elevation 27.00 feet.
4B	One .17-foot wide x 1.4 feet high rectangular orifice set at elevation 22.50 feet and one 10.5-foot wide weir set at elevation 23.90 feet.

- 4C One 42.4 degree V-notched bleeder set at invert elevation 23.0 feet and one 1.5-foot wide weir set at elevation 24.50 feet.
- 4D One 69.2 degree V-notched bleeder set at invert elevation 20.00 feet and one 16.20-foot wide weir set at elevation 21.70 feet.
- 4E One 156.16 degree V-notched bleeder set at invert elevation 18.50 feet and one 16.00-foot wide weir set at elevation 19.25 feet.
- 5 One 1.0-foot high x 2.0-foot wide rectangular orifice set at elevation 18.50 feet and one 2.0-foot wide weir set at evaluation 20.00 feet.
- 6A One 129 degree V-notched bleeder set at invert elevation 20.00 feet and one 13.7-foot wide weir set at elevation 21.50 feet.
- 6B One 130 degree V-notched bleeder set at invert elevation 18.50 feet and one 8.0-foot wide weir set at elevation 19.60 feet.
- 7A One 2.2-foot wide weir with a crest at elevation 25.60 feet and one 90 degree V-notched bleeder with an invert at elevation 24.50 feet.
- 7B One 4.0-foot wide weir with a crest at elevation 23.3 feet and one 2.8-foot wide x 1.3 feet high rectangular orifice with an invert at elevation 22.00 feet.

**ST. LUCIE WEST
SURFACE WATER MANAGEMENT DATA**

BASIN NO.	BASIN ACERAGE	CONTROL ELEVATION	LAKE ACERAGE	LAKE AREA (%)	MIN. RD. CROWN	25-YEAR STAGE	MIN. FINISH FLOOR	C.F.S. PEAK
N1/ I-95	1027.30	24.50	122.63	0.119	26.10*	27.40	28.00	
1B	97.79	22.50	3.20	0.033	24.60*	23.70	26.10	
1C	78.55	21.50	8.52	0.108	23.30*	24.10	25.30	
1D	131.97	20.00	45.77	0.347	21.80*	23.40	24.50	
1E	122.70	18.50	12.30	0.100	20.50*	21.80	23.20	58.00
2B	289.10	20.00	29.58	0.102	22.00*	22.90	24.60	
2B-1	19.20	21.00	2.40	0.125	23.00*	23.70	25.00	
2B-1A	22.40	21.50	1.55	0.069	23.50*	23.60	25.50	
2B-2	98.70	22.00	5.60	0.057	24.00*	24.60	25.80	
2B-3	34.80	23.00	1.11	0.032	24.60*	25.00	27.00	
2B-4	55.10	23.00	5.12	0.093	24.80*	25.50	27.00	
2C	251.00	18.50	25.90	0.103	21.00	21.70	23.30	93.20
3A	44.10	20.00	3.52	0.080	22.50	23.30	24.25	
3B	232.70	18.50	24.00	0.103	21.10	21.80	23.00	30.30
4B	49.00	22.50	6.24	0.127	24.90	25.10	26.50	
4C	137.49	23.00	20.59	0.150	25.50	25.90	27.00	
4D	198.60	20.00	20.40	0.103	22.90	23.30	24.50	
4E	332.98	18.50	37.87	0.114	20.60	21.40	23.00	166.70
5	258.15	18.50	49.86	0.193	20.60	21.50	22.50	25.80
6A	283.28	20.00	26.24	0.093	22.50	23.10	24.25	
6B	237.50	18.50	27.57	0.116	21.00	21.60	23.00	77.80
7A	329.16	24.50	21.00	0.064	27.00	28.10	29.20	36.80
7B-1	325.21	22.00	26.48	0.081	25.10	25.30	27.50	
7B-1	144.09	22.00	11.16	0.077	25.00	25.20	27.50	47.90
7B-3	53.43	24.50	0.00	0.000	27.50	27.40	29.50	

* MINIMUM ROAD CROWN BASED UPON 5 YEAR, 1 DAY STORM EVENT

ST. LUCIE WEST
PRESERVE WETLANDS BY BASIN

<u>Basin</u>	<u>Wetland #</u>	<u>Wetland Acreage</u>	<u>Buffer Acreage</u>	<u>Total Area</u>	<u>Control Elevation</u>
Basin 1A	21	3.75	2.50	6.25	25.8
	22	2.23	2.00	4.23	26.6
	23	1.71	1.97	3.68	27.3
	24	1.55	1.29	2.84	27.9
Totals		9.24	7.76	17.00	
1B	13 & 17	5.80	3.06	8.86	24.3
	14	2.49	1.76	4.25	24.3
	16	1.24	1.18	2.42	25.3
	18	2.94	1.88	4.82	25.3
Totals		12.47	7.88	20.35	
1C	10A	2.66	2.27	4.93	23.7
	10B	0.53	4.93	5.46	23.7
	19	2.23	1.48	3.71	23.1
	20	0.28	0.68	0.96	23.1
Totals		5.70	9.36	15.06	
1D	--	---	---	---	---
1E	2	2.59	1.83	4.42	20.7
	4	0.99	1.15	2.14	21.5
Totals		3.58	2.98	6.56	
2A	96	1.79	1.56	3.35	26.0
	97	0.80	1.03	1.83	26.2
	98	0.77	0.98	1.75	26.2
	99	1.86	1.40	3.26	26.0
Totals		5.22	4.97	10.19	

<u>Basin</u>	<u>Wetland #</u>	<u>Wetland Acreage</u>	<u>Buffer Acreage</u>	<u>Total Area</u>	<u>Control Elevation</u>
2B	6	2.77	1.69	4.46	21.7
	7	1.33	2.88	4.21	21.3
	9A	1.05	1.59	2.64	23.0
	9B	0.35	2.64	2.99	23.0
	70	1.76	1.33	3.09	23.5
	72	1.54	1.38	2.92	24.3
	74	0.86	1.01	1.87	24.3
	75	3.10	2.16	5.26	24.3
	76	2.56	2.11	4.67	24.0
	101	1.26	1.21	2.47	24.3
	102A	7.54	3.64	11.18	24.5
	102B	0.97	1.05	2.02	24.5
	103	2.33	1.90	4.23	24.5
Totals		<u>27.42</u>	<u>24.59</u>	<u>52.01</u>	
2C	1	4.03	2.17	6.20	20.9
	107	2.61	1.81	4.42	21.2
	108	1.01	1.08	2.09	21.0
	109	0.38	0.73	1.11	19.0
	110	0.11	0.49	0.60	18.4
	Totals		<u>8.14</u>	<u>6.28</u>	<u>14.42</u>
3A	--	---	---	---	---
3B	78	9.30	3.90	13.20	21.15
	106	4.81	17.41	22.22	21.0
	111	0.26	0.64	0.90	20.8
Totals		<u>14.37</u>	<u>21.95</u>	<u>36.32</u>	
4A	25	2.68	2.57	5.25	26.8
	26	2.51	3.31	5.82	27.0
	27A	6.20	4.87	11.07	26.5
	27B	1.16	1.13	2.29	26.5
	27C	6.96	2.98	9.94	26.5
	28	1.20	1.14	2.34	26.5
	100	1.23	1.27	2.50	26.7
	Totals		<u>21.94</u>	<u>17.27</u>	<u>39.21</u>
4B	--	---	---	---	---

<u>Basin</u>	<u>Wetland #</u>	<u>Wetland Acreage</u>	<u>Buffer Acreage</u>	<u>Total Area</u>	<u>Control Elevation</u>
4C	--	---	---	---	---
4D	68	3.33	1.96	5.29	24.2
	69	1.84	1.35	3.19	24.2
Totals		<u>5.17</u>	<u>3.31</u>	<u>8.48</u>	
4E	86	5.90	2.85	8.75	21.5
	88	0.79	0.98	1.77	21.5
	112	0.41	0.75	1.16	20.3
	113	2.00	1.42	3.42	20.3
	114	0.84	0.98	1.82	20.3
	115	0.58	0.60	1.18	20.0
Totals		<u>10.52</u>	<u>7.58</u>	<u>18.10</u>	
5	89	1.27	1.16	2.43	21.3
	116	0.73	0.92	1.65	20.3
Totals		<u>2.00</u>	<u>2.08</u>	<u>4.08</u>	
6A	81	7.19	2.62	9.81	22.9
	90	3.08	-0-	3.08	22.2
	91	0.58	16.69	17.27	22.1
	92	11.29	4.21	15.50	22.7
	93	1.68	13.72	15.40	23.0
	95	3.08	1.96	5.04	21.4
Totals		<u>26.90</u>	<u>39.20</u>	<u>66.10</u>	
6B	94A	1.28	1.33	2.61	21.5
	94B	0.95	1.06	2.01	21.5
Totals		<u>2.23</u>	<u>2.39</u>	<u>4.62</u>	

<u>Basin</u>	<u>Wetland #</u>	<u>Wetland Acreage</u>	<u>Buffer Acreage</u>	<u>Total Area</u>	<u>Control Elevation</u>
7	40	3.02	2.03	5.05	28.0
	41	0.59	0.86	1.45	23.7
	42				
	43	9.60	3.20	12.80	23.0
	44	1.96	1.39	3.35	24.0
	46	2.64	2.25	4.89	23.8
	48	2.91	2.12	5.03	24.0
	49	1.32	1.22	2.54	23.4
	50	3.44	2.46	5.90	23.3
	51	1.32	1.24	2.56	26.1
	52	1.77	1.53	3.30	26.35
	53	0.41	0.78	1.19	25.6
	55	5.56	3.40	8.96	23.7
	56	1.59	1.92	3.51	23.4
	58	1.02	0.95	1.97	22.07
105	0.80	0.96	1.76	23.42	
Totals		<u>37.95</u>	<u>26.31</u>	<u>64.26</u>	
		192.85	183.91	376.76	

**APPLICATION FOR WORK AUTHORIZATION
ST. LUCIE WEST SERVICES DISTRICT**

TO: BOARD OF SUPERVISORS
ST. LUCIE WEST SERVICES DISTRICT
450 UTILITY DRIVE
PORT ST LUCIE, FLORIDA 34986

WORK AUTHORIZATION TYPE:
[CHECK APPLICABLE]
 RIGHT-OF-WAY
 SURFACE WATER MANAGEMENT
 IRRIGATION WITHDRAWALS
 WATER AND SEWER UTILITIES

1. PROPOSED USE OF DISTRICT FACILITY: _____

2. LOCATION OF WORK: SECTION: _____ TOWNSHIP: _____ RANGE: _____

3. SUBDIVISION: _____ LOT: _____ BLOCK: _____

DISTRICT WORKS INVOLVED IN PROPOSED CONSTRUCTION OR USE: _____

4. OWNER OF PROPOSED WORK OR STRUCTURE: _____

STREET ADDRESS / MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

5. APPLICANT OTHER THAN OWNER (IF APPLICABLE): _____

STREET ADDRESS / MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

6. AREA PROPOSED TO BE SERVED: (Give property description sufficient for identification, including size in acres, and attach survey or property sketch).

7. This application, including sketches, drawings or plans and specifications attached, contains a full and complete description of the work proposed or use desired of the above described facilities of the District and for which authorization is applied, and it shall be part of any authorization that may be issued. The applicant agrees that all work or the use of the District's facilities involved shall be in accordance with the approved authorization and with the Policies and Procedures Manual of the District. The applicant has examined the manual as the same may be hereafter from time to time amended, changed, or revised and understand that such manual shall be incorporated by reference as a part of any work authorization may be approved by the District.

**APPLICATION FOR WORK AUTHORIZATION
ST. LUCIE WEST SERVICES DISTRICT**

SPECIAL CONDITIONS ARE AS FOLLOWS:

- a) In the event the ST. LUCIE WEST SERVICES DISTRICT wishes to obtain ingress or egress to its easement and/or right-of-way for the purpose of maintenance of District works, the removal and reinstallation of any construction permitted hereunder shall be at owner's expense.
- b) In undertaking any of the activities contemplated by this work authorization, the applicant hereby agrees to comply with all federal, state, and local statutes, laws, rules, and regulations governing such activities, including but not limited to water quality standards for off-site discharges; and to abide by all terms and conditions of any permit or other approval issued by any agency exercising regulatory jurisdiction over such activities.
- c) The applicant, by accepting of the work authorization, covenants and agrees that the ST. LUCIE WEST SERVICES DISTRICT shall be promptly indemnified, defended, protected, exonerated, and saved harmless by the applicant from and against all expenses, liabilities, claims, demands and proceedings, including reasonable attorney's fees in defense of such matters, incurred by or imposed on said District in connection with any claim proceeding, demand, administrative hearing, suit, appellate proceeding, or other activity, including unfounded or "nuisance" claims, in which the District may become involved, or any settlement thereof, arising out of any operations under this work authorization, including but not limited to use of canal water for irrigation purposes; damage to landscaping; paint damage to automobiles, buildings, or other structures; liability for charges, fees, assessments, fines, and penalties levied by any agency exercising regulatory jurisdiction over any of the activities contemplated by this work authorization; and any property damage or personal injuries, fatal or non-fatal, of any kind or character. The applicant further agrees that any such expense so incurred by the District may be recovered by the District through offset against any claim for reimbursement or other charge that the applicant may assert as due from the District. If any such expense so incurred by the District is not paid upon demand and is placed in the hands of an attorney for collection by suit or otherwise, the applicant hereby agrees to pay all costs of collection and litigation, including, but not limited to reasonable attorney's fees.
- d) By undertaking the construction allowed under this Work Authorization, the Applicant agrees and understands that it is solely responsible for, and shall indemnify and hold the District harmless from, (1) any and all restoration of District owned or controlled properties and facilities required as a result of such construction, and (2) any and all claims of third parties who currently have facilities located in District owned or controlled property and which facilities are damaged as a result of such construction.

Submitted this _____ day of _____, _____

COMPANY AND/OR OWNER: _____

BY: _____

NAME: _____ TITLE: _____

ST LUCIE WEST SERVICES DISTRICT:

Public Works Director

ENGINEERING:

CHECKED AND APPROVED BY
INFRASTRUCTURE SOLUTION SERVICES
DISTRICT ENGINEERS

BY: _____ DATE _____

ST LUCIE WEST SERVICES DISTRICT:

Utilities Director

BOARD OF SUPERVISORS:

REVIEWED AND APPROVED AT BOARD MEETING
HELD _____, 202__