APPENDIX B
MIAMI-DADE WATER & SEWER DEPARTMENT WATER LINE PERMIT PROCEDURES

I. A/E to submit one set of plans for dry run to FIU’s project manager assigned to their project. The project manager will then give the plans to FIU’s MDW&SD representative (Steve Hawkins) for delivery to MDW&SA. When the dry run plans are ready to be picked up, FIU’s representative will be notified along with the amount of the plan review fee. Note MDW&SD will not release the dry run plans until the fee has been paid. The A/E will make a check payable to MDW&SD for the amount required. Note: This is a reimbursable expense to the A/E.

II. The A/E will submit fifteen (15) sets of drawings plus five (5) sets of Application for Permit for construction (Sample attached) signed and sealed the their FIU assigned project manager. The project manager will then give the plans to FIU’s MDW&SD representative (Steve Hawkins) for delivery to MDW&SA.

III. After approval by MDW&SD the drawings will be picked up by FIU’s MDW&SD representative (Steve Hawkins) and delivered to the project manager. The A/E will then deliver the plans to the Florida Department of Health, 1725 N.W. 167th Street, Miami, Florida, for review and approval. There is a $250.00 review fee. Note: This is a reimbursable expense to the A/E.

IV. After approval by Florida Department of Health the A/E will pick up the drawing and then deliver them to DERM for final approval. There is a $90.00 review fee. Note: This is a reimbursable expense to the A/E.

V. After receipt of the approval letter by DERM the project manager will schedule a pre-construction conference with the contractor and with MDW&S before any construction can start.

VI. After construction of the water main has been completed six (6) sets of signed and sealed As-Builts and a bill of materials (sample attached) are to be submitted to MDW&SD for approval. NOTE: It is recommended that only one (1) set be submitted for review and comments before the six sets are submitted.

VII. After the As-Builts have been approved a request for a letter of clearance must be submitted to the Florida Department of Health along with the Drinking Water Bacteriological Analysis and the pressure report on the water main. (Sample attached) There is a $75.00 fee. Note: This is a reimbursable expense to the A/E.

VIII. After the Letter of Clearance from the Florida Department of Health has been received a pre-final inspection can be requested from MDW&SD. To request this inspection MDW&SD will need a copy of the clearance letter, density test results and the pipe certification certificate. (Sample attached)

IX. After the pre-final inspection has been completed MDW&SD will issue a punch list. When the punch list items have been corrected the contractor can call MDW&SD for the final inspection.
X. After the final inspection has been completed by MDW&SD the contractor will be sent a Waiver and Release of Lien form, a Warranty form, and a Bill of Material/Cost Breakdown form. (Samples attached) These forms are to be completed and returned to the FIU representative.

XI. After the Waiver, Warranty, and Bill of Material/Cost Breakdown forms have been received by FIU a letter setting up the account for this project will be prepared and delivered to MDW&SD requesting that the meter be installed.

XII. After MDW&SD has received the above the water meter should be installed within 5 working days.
INSTRUCTIONS: This form shall be completed and submitted by persons proposing to construct projects permitted under the "General Permit for Construction of an Extension to a Public Drinking Water Distribution System," Florida Administrative Code (F.A.C.). AT LEAST 30 DAYS BEFORE BEGINNING THE PROPOSED CONSTRUCTION, complete this form and submit it in quadruplicate to the appropriate district office of the Department or the appropriate Approve/County Public Health Unit (ACPHU) along with a check for the proper permit processing fee and the following supporting documents: signed and sealed engineering design data, plans, and specifications and a certificate that the project has been approved by the governing body of the permittee (city commissioners, corporation, board, etc.). All supporting documents, as well as this form, shall be submitted in quadruplicate. All information provided on this form shall be typed or printed in ink. A signature page or cover letter for engineering design data, each sheet of engineering plans, and a cover or index sheet for engineering specifications shall be signed, dated, and sealed with an impression-type metal seal by the professional engineer in responsible charge of the documents. Also, engineering plans and specifications shall be those intended for construction and shall not be stamped otherwise (e.g., "For Permitting Only," "For Review Only," etc.). Permit processing fees are listed in Rule 62-4.060, F.A.C. Checks for permit processing fees shall be made payable to the Department of Environmental Protection or an appropriate ACPHU. NOTE THAT A SEPARATE NOTIFICATION AND A SEPARATE PERMIT PROCESSING FEE ARE REQUIRED FOR EACH NON-CONTIGUOUS PROJECT.

I. NAME, DESCRIPTION, AND LOCATION OF PROJECT; PERMITTEE; ETC.

| Project Name: | FLORIDA INTERNATIONAL UNIVERSITY - MULTI(FUNCTION: BUILDING) |
| Project Description: | EXTENSION OF 12 INCH WATER MAIN TO SERVE PROPOSED BUILDING: APPROXIMATELY 325 FT. |

<table>
<thead>
<tr>
<th>Project Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>County: MIAHI-DADE, Section: 7, Township: 54 S, Range: 40 E</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Permittee</th>
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</thead>
<tbody>
<tr>
<td>Utility/Company Name: MIAMI-DADE COUNTY WATER &amp; SEWER DEPT.</td>
</tr>
<tr>
<td>Address: 3575 S. LeJeune Road</td>
</tr>
<tr>
<td>City: MIAMI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Public Water System Supplying Water for Project</th>
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<tbody>
<tr>
<td>System Name: MIAMI-DADE COUNTY WATER &amp; SEWER DEPT.</td>
</tr>
<tr>
<td>System Owner: MIAMI-DADE COUNTY WATER &amp; SEWER DEPT.</td>
</tr>
<tr>
<td>Address: 3575 S. LEJUNE ROAD</td>
</tr>
<tr>
<td>City: MIAMI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Owner/Operator of Project After It Is Placed Into Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility/Company Name: MIAMI-DADE COUNTY WATER &amp; SEWER DEPT.</td>
</tr>
<tr>
<td>Address: 3575 S. LeJeune Road</td>
</tr>
<tr>
<td>City: MIAMI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Professional Engineer in Responsible Charge of Designing Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Engineer: DEFENDO A. HERNANDEZ</td>
</tr>
<tr>
<td>Address: 4444 PALM AVE., SUITE 203</td>
</tr>
<tr>
<td>City: MIAMI</td>
</tr>
</tbody>
</table>

DCP Form 82-655.0007 (01/01/96) 12/11/95

Page 1 of 5
II. STATEMENT BY PERMITTEE

I, the undersigned owner or authorized representative* of FLORIDA INTERNATIONAL UNIVERSITY, certify that all water main pipe, fittings, valves, fire hydrants, and related products that will be installed under this project and that will come into contact with drinking water conform, or will conform, with American National Standards Institute/NSF International Standard 61.

I agree that we will require the contractor to furnish us with record drawings for this project. Also, I agree that we will retain a professional engineer registered in Florida to inspect construction of this project for the purpose of determining if work proceeds in accordance with the construction permit and approved engineering plans and specifications.

I am fully aware that we must obtain a letter of clearance from the Department before we place this project into service for any purpose other than disinfection or testing for leaks. Also, I am fully aware that, if we sell or legally transfer ownership of this project before obtaining a letter of clearance from the Department, we must submit to the Department an "Application for Transfer of a Public Water System Construction Permit" within 30 days after such sale or legal transfer of ownership.

Signature and Date: 2/18/02
Name and Title (please type or print): ROBERT W. GRIFFITH

*Attach a letter of authorization.

III. STATEMENT BY PUBLIC WATER SYSTEM SUPPLYING WATER FOR PROJECT

I, the undersigned owner or authorized representative* of MIAMI-DADE WATER & SEWER DEPT., certify that we will provide the potable water supply required by this project. As indicated below, the water treatment plant to which this project will be connected has the capacity to provide the potable water supply required by this project, and I certify that said plant is in compliance with the standards and criteria set forth in Chapters 62-550, 62-555, and 62-560, F.A.C. Also, said plant is under one or more valid Department construction permits as indicated below, and I certify that connection of this project to said plant will not be a violation of any condition of this (these) construction permit(s).

Name of Water Treatment Plant to Which this Project Will Be Connected: ALEXANDER ORR W.T.P.
Construction Permit Number(s) for Plant and Date(s) Permit(s) Issued: P2O-000002
Permitted Maximum Day Capacity of Plant: 217,778
Maximum Day Flow at Plant as Recorded on Monthly Operating Reports During Past 12 Months: 184,000

Signature and Date: 2/18/02
Name and Title (please type or print): TOMAS R. GOICOURIA
Chief Hydrologist, Development Division, Miami-Dade Water and Sewer Department

*Attach a letter of authorization.

IV. STATEMENT BY OWNER/OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of this project, certify that we will be the owner/operator of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with Chapters 62-550, 62-555, 62-560, and 62-569, F.A.C. Also, I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signature and Date: 2/18/02
Name and Title (please type or print): 

*Attach a letter of authorization.

STATEMENT BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF DESIGNING PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and reproduction of engineering documents for this project that I have expertise in the design of water distribution systems;
and that, to the best of my knowledge and belief, the engineering design for this project complies with Chapter 62-555, F.A.C.

The plans and specifications for this project require that all new and relocated water main pipe, fittings, valves, fire hydrants and related products that will come into contact with drinking water be in conformance with American National Standards Institute/NSF International Standard 61. Also, the plans and specifications for this project comply with the following requirements preceded by a "T," and the following requirements preceded by an "NA" are not applicable to this project.

- (1) The location and size of existing water mains, reclaimed water lines, force mains, sanitary sewers, storm sewer and other utilities, as well as the location and size of new and relocated water mains, are shown on the plans.

- (2) The plans or specifications include procedures for keeping existing water mains in service or for minimizing interruption of existing water service during construction.

- (3) It is required that all new and relocated water main pipe, fittings, valves, and fire hydrants be in conformance with applicable American Water Works Association (AWWA) standards, that all new and relocated water main pipe or fittings contain no more than eight percent lead, and that all packing and jointing materials used in the joints of new or relocated water main pipe be in conformance with applicable AWWA standards.

- (4) To the best of the professional engineer's knowledge, this project does not include installation of any new or relocated water mains in areas of ground water for which there is existing publicly accessible documentation of presence of low-molecular-weight petroleum products or organic solvents at concentrations exceeding ground water standards. (A specific construction permit is required for installation of water mains in areas of ground water that are known to be contaminated by low-molecular-weight petroleum products or organic solvents.)

- (5) Based upon current and expected water system operating conditions, all new and relocated water mains are so to maintain a minimum pressure of 20 psig at ground level under all design flow conditions listed in Part VI of this form.

- (6) If there are any new or relocated water mains that serve fire hydrants, such water mains and all hydrant leads leads are no smaller than six inches in diameter, and auxiliary valves are provided in all hydrant leads.

- (7) Dead-ends in new and relocated water mains are minimized by making appropriate tie-ins where practical, and dead-ends do occur in new or relocated water mains, fire hydrants, flushing hydrants, or blow-offs are provided flushing purposes.

- (8) Sufficient valves are provided in new and relocated water mains so that inconvenience and sanitary hazards are minimized during repairs. (It is recommended that valves be placed at not more than 500-foot intervals in commercial districts and at not more than one-block or 800-foot intervals in other districts.)

- (9) If there are high points where air can accumulate in new or relocated water mains during design operating conditions, hydrants or air release valves are provided at such high points to remove the air.

- (10) If there are any automatic air release valves on new or relocated water mains, such valves are not located where the valve manhole or chamber could be flooded by surface runoff or by the 100-year flood or the highest recorded flood, whichever is higher, and the open end of the air release pipe from such valves is extended to at least 6 feet above grade and is provided with a screened downward-facing elbow.

- (11) If there are any hydrant drains, flushing devices, air release valves, or chambers or manholes containing valves, blow-offs, meters, or other such appurtenances provided in conjunction with new or relocated water mains, are not connected directly to any sanitary or storm sewers.

- (12) It is required that new and relocated water mains and appurtenances be installed in accordance with applicable AWWA standards and/or the manufacturer's recommended procedures.
(13) It is required that rock and unsuitably sized stones (as described in applicable AWWA standards and/or the pipe manufacturer's recommended installation procedures) be removed to a depth of at least six inches below the bottom of the pipe, that continuous and uniform bedding be provided in trenches for new and relocated water main pipe, and that backfill material be tamped in layers around new and relocated water main pipe and to a sufficient height above such pipe to adequately support and protect the pipe.

(14) All tees, bends, plugs, and hydrants in new and relocated water mains are provided with reaction blocking or restrained joints to prevent movement.

(15) It is required that all new and relocated water mains be pressure tested and leakage tested in accordance with AWWA Standard C600.

(16) It is required that all new and relocated water mains be disinfected in accordance with AWWA Standard C651 and Rule 62-555.345, F.A.C.

(17) All new and relocated water mains are located at least ten feet horizontally from all sanitary sewers, storm sewers, force mains, and reclaimed water lines carrying reclaimed water for restricted public access areas and at least three feet horizontally from all reclaimed water lines carrying reclaimed water for public access areas; or data justifying an exception to these separation requirements are attached in accordance with Rule 62-555.314(1) or (4), F.A.C. (All distances are measured from outside pipe edge to outside pipe edge.)

(18) If there are any new or relocated water mains that cross any sanitary sewers, storm sewers, force mains, or reclaimed water mains, a profile view of each such crossing or the functional equivalent of a profile view of each crossing is provided.

(19) If there are any new or relocated water mains that cross any sanitary sewers, storm sewers, force mains, or reclaimed water lines, the water mains cross above such pipelines with a minimum vertical distance of 18 inches between the outside of the water mains and the outside of such pipelines, or such crossings are arranged so that all pipe joints are equidistant from the point of crossing with no less than ten feet between any two joints (or, alternatively, the sanitary sewers, storm sewers, force mains, and reclaimed water lines at such crossings are placed in sleeves or encased in concrete to obtain the equivalent of the ten-foot separation between joints; or data justifying an exception to these separation requirements is attached in accordance with Rule 62-555.314(4), F.A.C.

(20) If there are any new or relocated water mains that cross over or under surface water, a profile view of each surface water crossing showing the elevation of the bottom of the surface water and the normal and extreme high and low water levels is provided.

(21) If there are any new or relocated water mains that cross over any surface water, the water main pipe at each such surface water crossing is adequately supported and anchored, protected from damage and freezing, and accessible for repair and replacement.

(22) If there are any new or relocated water mains that cross under any surface water, a minimum cover of two feet is provided over the water main pipe at each such surface water crossing, and if the surface water is greater than the length of width, the following features are provided: (a) flexible watertight joints for the water main pipe at the crossing, (b) easily accessible valves located at both ends of the crossing with neither valve subject to flooding from surface runoff or by the 100-year flood or the highest recorded flood, whichever is higher, and with the valve closest to the supply source located in a manhole, and (c) permanent taps on each side of the valve within the manhole to allow for sampling and insertion of a small meter to determine leakage.


(24) This project does not include any interconnection between previously separate public water systems that have separate water supply sources. (A specific construction permit is required for such an interconnection.)
It is required that all new and relocated water services be in conformance with the State plumbing code, that all plumbing and pipe fittings for new and relocated water services contain no more than eight percent lead, and that all soil and flux for new and relocated water services contain no more than 0.2 percent lead.

VI. SUMMARY OF DESIGN DATA FOR PROJECT

1. Design/Projected Annual Average and Maximum Day Water Demands for Proposed Altered/New Distribution Facilities (i.e., water mains) Under this Project:

<table>
<thead>
<tr>
<th>Type of Facility</th>
<th>Designated Population (Columns B,C,D)</th>
<th>Annual Day Water Demand</th>
<th>Maximum Day Water Demand</th>
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</thead>
<tbody>
<tr>
<td>Single-Family Home</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mobile Home</td>
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<tr>
<td>Apartment</td>
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</tr>
<tr>
<td>Commercial, Institutional, or Industrial Facility</td>
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<tr>
<td>Total</td>
<td></td>
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<td>5,300</td>
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Description of Commercial, Institutional, and Industrial Facilities and Explanation of Method Used to Estimate Average Day Water Demand for These Facilities:

- 52,000 SF Office
- 4,000 SF Conference
- 17,000 SF Classroom

Explanation of Method Used to Estimate Maximum Day Water Demand:

2. Design/Projected Maximum Hour Water Demand for Proposed Altered/New Distribution Facilities Under this Project and Basis of Design/Projection:

Fire Demand Plus Coincident Draft (usually maximum day water demand) for Proposed Altered/New Distribution Facilities Under this Project and Basis of Design/Projection:

3. Operating Pressure Range for Proposed Altered/New Distribution Facilities Under this Project:

4. Will the proposed altered/new distribution facilities under this project be part of a community water system or a public water system that has a service area also served by a reclaimed water system? 
   If yes, document that the system has a routine cross-connection control plan, including a written plan, in accordance with Rule 62-555.360, F.A.C.:
# BILL OF MATERIALS

**DATE:** 5-21-02

**PROJECT NAME:** Multi-Function Support Complex

**LOCATION:** FES Campus

**CONTRACTOR:** Stone Circle Underjacs, Inc.

**WATER BILL OF MATERIALS**

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<tr>
<td>300 LF</td>
<td>P.V.C.</td>
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**SEWER BILL OF MATERIALS**

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<th></th>
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<tr>
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</tr>
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</tr>
</tbody>
</table>

**COMMENTS:**

- 2-12" Tapping Values
- 1-8" Valve
- 3-4" Values

**RECEIVED**

MAY 30, 2012

JAMES A. CUMMINGS, INC.

JOB SITE

**THE ABOVE MATERIAL LIST IS CORRECT TO THE BEST OF MY KNOWLEDGE.**

**CONTRACTOR'S COMPANY NAME:**

**DATE:** 5-21-02

**CONTRACTOR'S SIGNATURE:**
Department of Environmental Protection

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: See Page 3.

I. PROJECT NAME AND CONSTRUCTION PERMIT NUMBER, PERMITTEE, ETC.

Project Name: **FLORIDA INTERNATIONAL UNIVERSITY - MULTI-FUNCTION BUILDING**
Project Construction Permit No.: 175199-573-DSGP  Date Permit Issued: March 26, 2002
Portion of Project for Which Construction is Substantially Complete and for Which a Letter of Clearance Is Requested:

**EXTENSION OF 12-INCH WATER MAIN TO SERVE PROPOSED BUILDING - APPROXIMATELY 325 FT.**

**Permittee**

Utility/Company Name: MIAMI-DADE COUNTY WATER & SEWER DEPT.  Telephone No.: 305-669-7658
Address: 3375 S. LEEUNE RD
City: MIAMI  State: FL  Zip Code: 33145

Owner/Operator of Project After It Is Placed into Service

Utility/Company Name: MIAMI-DADE COUNTY WATER & SEWER DEPT.  Telephone No.: 305-669-7658
Address: 3375 S. LEEUNE RD
City: MIAMI  State: FL  Zip Code: 33145

Professional Engineer in Responsible Charge of Inspecting Completion of Project

Name of Engineer: BERNABE A. HERNANDEZ
Firm Name: J.H. MONKLEY, INC.
Address: 4694 PALM AVE, SUITE 203
City: HIALEAH  State: FL  Zip Code: 33012

II. STATEMENT BY PERMITTEE

I, the undersigned owner or authorized representative* of **FLORIDA INTERNATIONAL UNIVERSITY**, certify the following:

that the contractor has furnished us with record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location:

AND that, if this project involves the construction of any new or altered treatment facilities, an operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project is available for review at the site of the new and altered treatment facilities.

Also, I certify that *I* are not the owner/operator of this project after it is placed into service, we have provided a copy of the above mentioned record drawings and a copy of the above mentioned operation and maintenance manual, if applicable, to the person or system that will be the owner/operator of this project after it is placed into service.

\[Signature\]

\[Date\]

*Attach a letter of authorization.*
III. STATEMENT BY OWNER OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of

Miami-Dade Water and Sewer

Department

certify that we will be the owner/operator of this project after it is placed into service. Also, I certify the following:

that we have received a copy of the record drawings for the substantially completed portion of this project and that these
record drawings are available for review at the following location:

Project Name: MIAMI - POLICE SUPPORT COMPLEX
Project Construction Permit Number: ENC 125199 - B73 - D0G
Substantially Completed Portion of Project: 817/803

AND that, if this project involves the construction of any new or altered treatment facilities, we have received a copy
of the operation and maintenance manual for the new and altered treatment facilities included in the substantially
completed portion of this project and that this operation and maintenance manual is available for review at the site of the
new and altered treatment facilities.

JOSEPH P. CULHANE
NEW BUSINESS REPRESENTATIVE

Name and Title (please type or print)

* Signature and Date

6/9/02

Attach a letter of authorization.

IV. CERTIFICATION OF CONSTRUCTION COMPLETION BY PROFESSIONAL ENGINEER IN CHARGE OF INSPECTING CONSTRUCTION OF PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of inspecting
construction of this project for the purpose of determining in general if work is proceeding in compliance with the
construction permit and approved plans and specifications. Also, I certify the following:

- that the substantially completed portion of this project has been constructed in accordance with the construction permit
and approved engineering plans and specifications or that, to the best of my knowledge and belief, any deviations from
the construction permit and approved engineering plans and specifications will not prevent this project from functioning
- that the record drawings for the substantially completed portion of this project are adequate and indicate all deviations
from the construction permit and approved engineering plans and specifications; and
- that, to the best of my knowledge and belief, all new or altered well facilities, new or altered treatment facilities
downstream from the first point of application of disinfectant at a treatment plant, new or altered finished water
pumping facilities, new or altered finished water storage facilities, and new or altered water mains included in the
substantially completed portion of this project have been disinfected and bacteriologically tested in accordance with
Standards C651, C652, C653, and/or C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.

This certification is based upon on-site observation of construction conducted by me or by a project representative under
my direct supervision and upon a review of shop drawings, test results/records, and record drawings performed by me or
by a project representative under my direct supervision.

This certification does not necessarily constitute a certification of final completion of construction. Additional construction
may be needed to satisfy all conditions of the construction contract documents.

The following is a description and explanation of all deviations from the construction permit and approved engineering
plans and specifications for the substantially completed portion of this project. (Attach additional sheets if necessary.)

Bernabe A. Hernandez PE 14772
Name and License Number (please type or print)

6/3/02

Signature, Date, and Seal
Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: This form shall be completed and submitted for projects permitted and constructed under specific public drinking water facility construction permits issued by the Department and for projects permitted and constructed under the "General Permit for Construction of an Extension to a Public Drinking Water Distribution System." AFTER SUBSTANTIALLY COMPLETING THE CONSTRUCTION OF A PROJECT OR A PORTION OF A PROJECT AND BEFORE PLACING ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE FOR ANY PURPOSE OTHER THAN DISINFECTION, TESTING FOR LEAKS, AND/OR TESTING EQUIPMENT OPERATION, complete this form and submit it to the appropriate district office of the Department or the appropriate Approved County Public Health Unit (ACP) along with applicable supporting documents. Applicable supporting documents include the following: (1) for projects and portions of projects where there is any deviation from the construction permit and approved engineering plans and specifications, a copy of record drawings; (2) for projects and portions of projects including new or altered public drinking water supply wells, new or altered treatment facilities downstream from the first point of application of disinfectant at a public drinking water treatment plant, new or altered treated/finished drinking water pumping facilities, new or altered treated/finished drinking water storage facilities, or new or altered treated/finished drinking water mains, a copy of satisfactory bacteriological test results that indicate the date and time each bacteriological sample was collected and that demonstrate compliance with Rules 62-555.315(3), 62-555.340, and 62-555.345, Florida Administrative Code (F.A.C.) and applicable American Water Works Association (AWWA) disinfection standards (AWWA Standards C651, C652, C653, and C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.; (3) for projects and portions of projects including new or altered public drinking water treatment facilities that are needed to comply with, or affect compliance with, Part III of Chapter 62-550, Part VI of Chapter 62-555, or Rule 62-524.850(2), F.A.C., a copy of analytical test results that demonstrate compliance with these rules; and (4) for projects and portions of projects including new or altered wells, a copy of the log completion report for each new or altered well if such report is applicable and has not been previously submitted to the Department or the appropriate ACP. All information provided on this form shall be typed or printed in ink. When submitting a copy of bacteriological test results, also submit a sketch or description indicating where each bacteriological sample was collected. NOTE THAT A SEPARATE CERTIFICATION OF CONSTRUCTION COMPLETION AND REQUEST FOR A LETTER OF CLEARANCE IS REQUIRED FOR EACH PERMITTED PROJECT. DO NOT PLACE ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE UNTIL THE DEPARTMENT OR THE APPROPRIATE ACP ISSUES A LETTER OF CLEARANCE FOR THE FACILITY.

For new and altered public drinking water supply wells, bacteriological sampling shall be conducted, and interpretation of bacteriological test results shall be made, in accordance with Rule 62-555.315(3), F.A.C. For all other new and altered public drinking water facilities, bacteriological sampling shall be conducted by first reducing the total chlorine residual in the water within the facilities to no more than 4 mg/L and then collecting daily bacteriological samples (taken at least 24 hours apart) for two or more consecutive work-days until satisfactory test results are obtained. Bacteriological test results for new and altered public drinking water facilities other than wells shall be considered satisfactory if two consecutive daily samples from each sample location show the absence of total coliform organisms. Bacteriological test results for all new and altered public drinking water facilities other than wells will be considered invalid if the results are for samples collected more than 30 days before the results are received by the Department or the ACP, and bacteriological test results for new and altered public drinking water mains will be considered invalid if the pressure in the mains is not maintained at 20 psi or greater after the samples are collected.
DRINKING WATER
BACTERIOLOGICAL ANALYSIS

Press hard, (5) copies

STATION NAME:  WOOL
STATION I.D. NO: 175289-573-050
ADDRESS:  5W 115TH AVE ÷ 5W 168TH ST
COUNTY:  Dade
DISTRICT:  13
COLLECTOR:  Leslie
COLLECTOR PHONE:  698-355
DATE AND TIME COLLECTED:  5-21-92  1:30 PM
SAMPLE SITE (Locality or Subdivision):  Main-Function Support Complex
TYPE OF SUPPLY (Circle one):  Community water system
Noncommunity water system
Nontransient - noncommunity water system
Private well
Swimming pool
Bottled water
Limited Use system
TYPE OF SAMPLE (Circle one):  Compliance
Repeat
Replacement
Main clearance
Well survey
Other

TO BE COMPLETED BY COLLECTOR OF SAMPLE

<table>
<thead>
<tr>
<th>COLL. NO.</th>
<th>SAMPLE POINT (Specific Point Address)</th>
<th>CL RESID PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-12</td>
<td>6&quot; DD CU</td>
<td>7.6 +4</td>
</tr>
<tr>
<td>1-13</td>
<td>2&quot; to</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Water sample, as received
considered bacteriologically
safe for drinking purposes.

Miami-Dade County Dept. of Health

Transported in Cooler

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

MOMI LAB TEST RESULTS
MEETS ALL NEAS REQUIREMENTS

REVIEWING OFFICIAL:  D. E. Frazier
TITLE:  B. 11
# TEST REPORT — PRESSURE PIPE

**ER #** DW 2002 - 047  
**PROJECT** Multi Function Support Complex  
**CONTRACTOR** Stone Circle  
**INSPECTOR** Jorge L. Olivero  
**DATE** 5/13/02  
**FORMULA** \[ L = \frac{SD}{133200} = \frac{300 \times 10 \times 12}{133200} = 0.29 \]  
**LOCATION** P.U. SW 14 ST & 110 AVE

| LENGTH MAIN | 300' | **PASSED** X |
| DIA. PIPE | 12'' | **FAILED** O |
| NUMBER JOINTS | 0 |  
| TEST PRESSURE | 100 PSI |  

**ALLOWABLE LEAKAGE IN GALLONS PER HOUR**  

**ACTUAL LEAKAGE IN GALLONS PER HOUR.**

<table>
<thead>
<tr>
<th>TIME TESTED</th>
<th>METER READING</th>
<th>GALS USED</th>
<th>0'</th>
<th>10'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>1 HR.</th>
<th>REMARKS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TIME TESTED</th>
<th>METER READING</th>
<th>GALS USED</th>
<th>0'</th>
<th>10'</th>
<th>20'</th>
<th>1.5 HRS.</th>
<th>40'</th>
<th>50'</th>
<th>2 HRS.</th>
<th>REMARKS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TIME TESTED</th>
<th>METER READING</th>
<th>GALS USED</th>
<th>0'</th>
<th>10'</th>
<th>20'</th>
<th>2.5 HRS.</th>
<th>40'</th>
<th>50'</th>
<th>3 HRS.</th>
<th>REMARKS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TIME TESTED</th>
<th>METER READING</th>
<th>GALS USED</th>
<th>0'</th>
<th>10'</th>
<th>20'</th>
<th>3.5 HRS.</th>
<th>40'</th>
<th>50'</th>
<th>4 HRS.</th>
<th>REMARKS</th>
</tr>
</thead>
</table>

**BY L.N. & A.P.**  
B.12
June 6, 2002

Bernabe A. Hernandez, P.E.,
I.H. Mannon Inc.
4694 Palm Avenue, Suite #203
Hialeah, Florida 33012

Dear Mr. Hernandez:

This will serve to acknowledge receipt of request for a Letter of Release to place water supply system into service.

Based on the Engineer's certification and satisfactory pressure test and bacteriological results, we are releasing these facilities for service.

In case of a Partial Release, it will be the Engineer's responsibility to secure complete clearance of the subject project prior to placing the entire system in service. Failure to comply with this requirement will constitute a cause for Enforcement Action.

Your continued cooperation in our water supply program is very much appreciated.

Very truly yours,

Samir Elmair, P.E.
Environmental Administrator
July 1, 2000

Hughes Supply
1200 N.W. 15th street
Pompano Beach, FL 33069

Re: FLANGED PIPE

This letter will serve as certification that the fabricated pipe supplied by CUSTOM FAB is manufactured in accordance with ANSI/AWWA C115/A21.15-94.

The ductile iron pipe flanged by Custom Fab is AMERICAN Ductile Iron Pipe, Class 53 or greater, and is manufactured in accordance with and meets or exceeds all applicable requirements of AWWA C151/A21.51-96.

The cement lining is in accordance with ANSI/AWWA C104/A21.4-95.

Flanges for ductile iron pipe are in accordance with AWWA C115.

All materials incorporated into these products are NSF/61 approved and U L Listed. Finished products are individually labeled accordingly.

Sincerely,

CUSTOM FAB

Christopher M. Comins
President

STATE OF FLORIDA
COUNTY OF ORANGE

Sworn to and subscribed before me this 1st day of July, 2000.

HOLLY K. PORTER
NOTARY PUBLIC

B.14
FIELD DENSITY TESTS OF COMPACTED SOILS

DATE: 04/26/02
ORDER NO: 02-1096
PERMIT NO:

CLIENT: STONE CIRCLE UNDERGROUND
ADDRESS: 688 N.E. 1ST STREET, DANIA, FLORIDA 33004
PROJECT: F.I.U. CAMPUS PROPOSED WATERMAIN BACKFILL
ADDRESS: MULTI-FUNCTION COMPLEX BUILDING, MIAMI, FLORIDA

MATERIAL DESCRIPTION: TAN SAND WROCK

LOCATION: STA +250 1' ABOVE PIPE
LOCATION: STA +300 1' ABOVE PIPE
LOCATION: STA +250 2' ABOVE PIPE
LOCATION: STA +300 2' ABOVE PIPE
LOCATION: STA +250 3' ABOVE PIPE
LOCATION: STA +300 3' ABOVE PIPE

FIELD DENSITY METHOD A.S.T.M. D-2922

<table>
<thead>
<tr>
<th>DRY DENSITY P.C.F. IN THE FIELD</th>
<th>116.9</th>
<th>117.4</th>
<th>117.6</th>
<th>117.3</th>
<th>117.6</th>
<th>118.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>% MOISTURE</td>
<td>6.1</td>
<td>5.9</td>
<td>6.1</td>
<td>6.6</td>
<td>5.4</td>
<td>5.8</td>
</tr>
<tr>
<td>% COMPAC TION IN THE FIELD</td>
<td>98.7</td>
<td>99.1</td>
<td>99.3</td>
<td>99.0</td>
<td>99.3</td>
<td>99.7</td>
</tr>
<tr>
<td>% COMPACTION REQUIREMENT BY SPECS</td>
<td>95%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROCTOR VALUE, P.C.F.</td>
<td></td>
<td></td>
<td></td>
<td>118.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPTIMUM MOISTURE, %</td>
<td></td>
<td></td>
<td>10.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABORATORY NO.</td>
<td>P-0597</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEPTH IN INCHES</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PROCUTOR T-180 A.A.S.H.T.O. METHOD

ALL TEST RESULTS COMPLY WITH SPECIFICATIONS UNLESS OTHERWISE NOTED WITH AN ASTERISK (*).

REMARKS:

TESTED BY: KL
CHECKED BY: WN

Respectfully submitted,

Wissam S. Naaman, P.E.
FEDERAL ENGINEERING & TESTING
FLORIDA REG. #19084
FEDERAL
1798 AGORA CIRCLE S.E. SUITE 3
PALM BAY, FLORIDA 32909

ENGINEERING & TESTING
1845 N.W. 33RD STREET
POMPANO BEACH, FLORIDA 33064

PROCTOR COMPACTION TEST

DATE: 04/11/02
ORDER NO. 02-1070
PERMIT NO.

CLIENT: STONE CIRCLE UNDERGROUND

ADDRESS: 618 N.E. 1st STREET, DANIA, FLORIDA 33004

PROJECT: FIU CAMPUS PROPOSED UTILITY BACKFILL

ADDRESS: MULTI-FUNCTION COMPLEX BUILDING, MIAMI, FLORIDA

CONTRACTOR: STONE CIRCLE UNDERGROUND

MATERIAL DESCRIPTION: TAN SAND W/ROCK

SAMPLED BY: _______ RN TESTED BY: _______ RN

REPORTED TO: CLIENT

TEST RESULTS

Laboratory Number P-0597

The following compaction test was conducted in accordance with the Standard Methods for Moisture Density Relations of soil using a 10 lb. Hammer and an 18" deep AASHTO designation T-180-C.

<table>
<thead>
<tr>
<th>% MOISTURE</th>
<th>DRY DENSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1</td>
<td>114.8</td>
</tr>
<tr>
<td>9.6</td>
<td>117.9</td>
</tr>
<tr>
<td>11.1</td>
<td>115.1</td>
</tr>
</tbody>
</table>

Optimum Moisture 10.4

100% Maximum Dry Density 118.4 lbs./cu. ft.

% Passing 3/4" Sieve 92 Percent

Respectfully submitted,

WISSAM S. NAAMANI, P.E.
FEDERAL ENGINEERING & TESTING
FLORIDA REG. #105384

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or excerpts from or regarding our reports is reserved pending our written approval.
WARRANTY

This Warranty hereby made and entered into this ___ day of ____, 20___, by Jonathan Andrew Construction, Inc., a Florida corporation, whose mailing address is: 7124 S.W. 47th Street, Miami, Florida 33155, who does hereby warrant to MIAMI-DADE COUNTY ("COUNTY") and the MIAMI-DADE WATER AND SEWER DEPARTMENT ("DEPARTMENT") the property described below to be free from defects in materials and workmanship for a period of one (1) year from the date hereof:

All water facilities built and constructed to serve F.I.U. (Greek House), WB2001-053, located in Section 07-54-40, Miami-Dade County, Florida, as shown on Exhibit "A" attached hereto and made a part hereof and as more particularly described on Exhibit "B" attached hereto and made a part hereof.

The undersigned shall at no cost to the COUNTY and DEPARTMENT, repair, replace or otherwise remedy such defects to the full and complete satisfaction of the COUNTY and the DEPARTMENT.

IN WITNESS WHEREOF, the undersigned has executed this warranty by its duly authorized officers or representatives on the day and year above written.

WITNESSETH:

__________________________________________
SIGNATURE

__________________________________________
PRINT NAME

__________________________________________
SIGNATURE

__________________________________________
PRINT NAME

JONATHAN ANDREW CONSTRUCTION, INC., A FLORIDA CORPORATION

By: ______________________________________
__________________________________________
PRINT NAME

__________________________________________
____________________, President
__________________________________________
PRINT NAME (SEAL)

__________________________________________
PRINT NAME
WAIVER AND RELEASE OF LIEN

KNOW ALL MEN BY THESE PRESENTS, that Jonathan Andrew Construction, Inc., a Florida corporation in consideration of payment in the sum of Ten Dollars ($10.00), receipt whereof is hereby acknowledged, and other valuable considerations and benefits to the undersigned accruing, does hereby waiver, release and quit claim all liens, lien rights, claims or demands of every kind whatsoever which the undersigned now has, or may hereinafter have, against certain improvements, situated in Miami-Dade County, Florida, as described as:

All water facilities built and constructed to serve F.I.U. (Greek House), WP2001-053, located in Section 07-54-40, Miami-Dade County, Florida, as shown on Exhibit "A" attached hereto and made a part hereof and as more particularly described on Exhibit "B" attached hereto and made a part hereof.

on account of work and labor performed, and/or materials furnish them, to, or in the improvements above described, or any part thereof.

It being the understanding of the undersigned that this is a Waiver and Release of Lien which the undersigned has against the premises described herein, only to the extent of the payments specified and only for materials furnished or work done up until the date _______________________, the undersigned Warrants that no assignment of said liens or claims, nor the right to perfect a lien against said improvements, by virtue of the accrual of said payment, has or will be made, and that the undersigned has the right to execute this Waiver and Release, and that all laborers employed by the undersigned, and all bills for materials and supplies furnished by others to the undersigned in connection with the construction of the said improvements, to the extent of the payment herein referred to, have been fully paid.

IN WITNESS WHEREOF, I/We have executed this instrument under seal this ___ day of ________________, 20__.

WITNESSETH:

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

JONATHAN ANDREW CONSTRUCTION, INC., A FLORIDA CORPORATION

By: ___________________________, President

PRINT NAME (SEAL)

PRINT NAME

PRINT NAME
**MIAMI-DADE WATER AND SEWER DEPARTMENT**
**BILL OF MATERIALS / COST BREAKDOWN**

<table>
<thead>
<tr>
<th>WATER</th>
<th>QUANTITY</th>
<th>SIZE</th>
<th>TYPE</th>
<th>UNIT COST</th>
<th>TOTAL COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Including Fittings (min. $2.50 per ft/inch list by size)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valves:</td>
<td></td>
<td></td>
<td>Butterfly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Services: (min. $350.00 each)</td>
<td></td>
<td></td>
<td>Single:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic:</td>
<td></td>
<td></td>
<td>Dual:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firelines: (By Size)</td>
<td></td>
<td></td>
<td>Irrigation:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Hydrant Assemblies: (Min. $1,000.00 each)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turbo Meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restoration: (Paving, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DATE:** [ ]

**TOTAL COST OF THIS PROJECT:** [ ]

**AUTHORIZED SIGNATURE:** [ ]