Florida Department of Environmental Protection

South District Office
Post Office Box 2549
Fort Myers, Florida 33902-2549

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

FILE

VIA ELECTRONIC MAIL

In the Matter of an
Application for Permit by:

Permittee:
JDI PH Marina Holdings LLC
George Wilson, Managing Member
555 Skokie Blvd., Ste 555
North Brook, IL 60062
Monbo2@hotmail.com

Permit Number: 281237-100-DWC/CM
Issued: March 22, 2011
Expires: March 21, 2016
Project: Pilot House Marina/Restaurant **(Vacuum)**
Connected to: Key Largo WWTP
County: Monroe

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 281237-100-DWC/CM to construct a sewage collection/transmission system pursuant to Chapter 403, Florida Statutes (FS) and Florida Administrative Code (F.A.C.) Rules 62-4 and 62-604.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within 14 days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the persons listed below must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within 14 days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department permit identification number and the county in which the subject matter or activity is located;

(b) A statement of how and when each petitioner received notice of the Department action;

(c) A statement of how each petitioner's substantial interests is affected by the Department action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;

(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding.

This permit action is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this permit will not be effective until further order of the Department.

Any party to the permit has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this permit action is filed with the clerk of the Department.

Executed in Fort Myers, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Jon M. Iglehart
Director of
District Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on March 22, 2011 to the listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Julia A. La Moar 3-22-11
Clerk Date

JMI/OJO/JLI/jl

Copies furnished to:
Charles Fishburn cff@klwtd.com
Daryle L. Osborn, P.E. mail@keyseng.com
Ajaya Satyal, FDEP, Air Section, ajaya.satyal@dep.state.fl.us
Charles Emery, FDEP, Waste Management, charles.emery@dep.state.fl.us
Gus Rios, FDEP, Marathon, gus.rios@dep.state.fl.us

Florida Department of Environmental Protection

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Post Office Box 2549
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In the Matter of an
Application for Permit by:

Permittee:
JDI PH Marina Holdings LLC
George Wilson, Managing Member
555 Skokie Blvd., Ste 555
North Brook, IL 60062
Monbo2@hotmail.com

Permit Number: 281237-100-DWC/CM
Issued: March 22, 2011
Expires: March 21, 2016
Project: Pilot House Marina/Restaurant **(Vacuum)**
Connected to: Key Largo WWTP
County: Monroe

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4 and 62-604, Florida Administrative Code (F.A.C).

The above named permittee is hereby authorized to construct the facilities shown on the application and other documents on file with the Department and made a part hereof and specifically described as follows:

DESCRIPTION OF PROJECT: The construction of 250 LF of 2" pressure line to an existing 4" gravity line, a new lift station , and 177 LF of 2" pressure line to the existing vacuum sewer connection, per application materials received February 23, 2011 with additional information last received on March 22, 2011.

LOCATION OF PROJECT: Section 33, Township 61, Range 39 in Key Largo, Monroe County, Florida.

IN ACCORDANCE WITH: The limitations, requirements and other conditions set forth in this permit.

PERMIT CONDITIONS:

1. These permits are subject to the general conditions of Rule 62-4.160, F.A.C., as applicable. This rule is available at the Department's Internet site at: http://www.dep.state.fl.us/water/wastewater/rules.htm#domestic [62-4.160, 5-1-03].

2. Upon completion of construction of the collection/transmission system projects, and before placing the facilities into operation for any purpose other than testing for leaks or testing equipment operation, the permittee shall submit to the Department's South District Office at P.O. Box 2549, Fort Myers, FL 33902-2549 (by mail) or 2295 Victoria Avenue, Suite 364, Fort Myers, FL 33901 (by other delivery

PERMIT CONDITIONS:

service) Form 62-604.300(8)(b), Request for Approval to Place a Domestic Wastewater Collection/Transmission System into Operation. This form is available at the Department's Internet site at: http://www.dep.state.fl.us/water/wastewater/forms.htm [62-604.700(2), 11-6-03]. Form 62-604.300(8)(b) shall be accompanied by a copy of the Operation and Maintenance Manual upon submission to this Department. Also, all components of the vacuum system will be tested to ensure proper functioning prior to submitting Form 62-604.300(8)(b), Request for Approval to Place a Domestic Wastewater Collection/Transmission System into Operation.

3. The new or modified collection/transmission facilities shall not be placed into service until the Department clears the project for use [62-604.700(3), 11-6-03].

4. Permit revisions shall only be made in accordance with Rule 62-4.050(4)(s), F.A.C. Request for revisions shall be made to the Department in writing and shall include the appropriate fee. Revisions not covered under Rule 62-4.050(4)(s), F.A.C., shall require a new permit [62-604.600(8), 11-6-03].

5. Abnormal events shall be reported to the Department's South District Office in accordance with Rule 62-604.550, F.A.C. For unauthorized spills of wastewater in excess of 1000 gallons per incident, or where information indicates that public health or the environment may be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519 as soon as practical, but no later than 24 hours from the time the permittee or other designee becomes aware of the circumstances. Unauthorized releases or spills less than 1000 gallons per incident are to be reported orally to the Department's Marathon Branch Office at (305) 289-7070 within 24 hours from the time the permittee, or other designee becomes aware of the circumstances [62-604.550, 11-6-03].

6. The design and construction of the wastewater collection/transmission system shall be in accordance with provisions of Florida Administrative Code (F.A.C.) with particular attention to the applicable requirements of the manuals regarding alternative wastewater collection systems incorporated by reference by F.A.C. Rules 62-604.300(1), 62-604.300(5)(b) and (c).

7. The design and construction of the vacuum wastewater collection/transmission system shall be in accordance with provisions of Florida Administrative Code (F.A.C.) Rule 62-604, with particular attention to the items of F.A.C. Rule(s) 62-604.400(1)(g) through (j).

8. The vacuum system is to be designed with an alarm system which activates in cases of malfunction. The alarm will be telemetered to a facility that is manned 24 hours a day. If such a facility is not available, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the vacuum system during off-duty hours. If an alternate alarm system is used, documentation showing it will provide an equivalent level of reliability and public health protection will be furnished to this office.

9. This permit is for CONSTRUCTION ONLY of the collection/transmission system project. This permit does not authorize the connection of this collection/transmission system project to the designated wastewater treatment plant. This permit shall not be construed to infer that the clearance necessary for connection shall be granted.

SPECIFIC PERMIT CONDITIONS

1. All new wastewater collection/transmission systems and modifications of existing systems shall be located at least 100 feet from a public drinking water supply well.

2. Except as provided in Section 62-604.400(3), F.A.C., sewer pipes/force mains should cross under water mains.

3. For sewer crossings, all crossings shall be arranged so that the sewer pipe joints are equidistant as far as possible from the water main joints. At crossings, all vacuum sewer joints must maintain a minimum distance of 3 feet from water main joints. All gravity or pressure type sanitary sewers and wastewater force main joints shall maintain a minimum distance of 6 feet from water main joints.

4. Except as provided under 62-604.400(3), F.A.C., all sewers and force mains shall be laid at least 10 feet horizontally (outside to outside) from a water main and 3 feet minimum (outside to outside) from a reclaimed water pipe permitted under Part III of Chapter 62-610, F.A.C.

5. A vertical separation of at least 18 inches must be maintained when a sewer pipe crosses a water main, except as provided under Section 62-604.400(3), F.A.C

6. When any existing asbestos cement (AC) pipes are replaced under this permit, the permittee shall do so in accordance with the applicable rules of Federal Asbestos Regulation and Florida DEP requirements. For specific requirements applicable to AC pipes, the permittee should contact the Air and Waste Management section managers prior to commencing any such activities at (239) 344-5600. Please be aware that a notification is required to be submitted to the Department for a regulated project.

Executed in Fort Myers, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Jon M. Iglehart
Director of
District Management

Date Signed: MARCH 22, 2011

JMI/OJO/JLI/jl

Department of Environmental Protection
South District Office
P.O. Box 2549
Fort Myers, Florida 33902-2549

CERTIFICATION

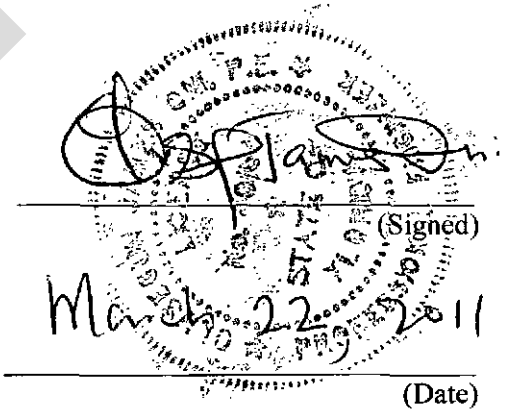
PERMIT NO: 281237-100-DWC/CM

PILOT HOUSE MARINA/RESTAURANT (VACUUM)

(KEY LARGO WWTP)

I HEREBY CERTIFY that the engineering features described in the above referenced application provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, and geological features).

Name: Olusegun James Oni, P.E.



(Signed)

March 22, 2011

(Date)

Certification No: 049154

(Seal)

Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

NOTIFICATION/APPLICATION FOR CONSTRUCTING A DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM

PART I - GENERAL

Subpart A: Permit Application Type

Permit Application Type (mark one only)	EDUs Served	Application Fee*	"X"
Are you applying for an individual permit for a domestic wastewater collection/transmission system? Note: an EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.	≥ 10	$500	☒
	< 10	$300	☐
Is this a Notice of Intent to use the general permit for wastewater collection/transmission systems? Criteria for qualifying for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.	N/A	$250	☐

*Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

(1) This form shall be completed for all domestic wastewater collection/transmission system construction projects as follows:
- If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department **at least 30 days prior to initiating construction.**
- If this is an application for an individual permit, the permit must be obtained prior to initiating construction.

(2) One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program.

- If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
- If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application, or alternatively, an engineering report shall be submitted. Plans and specifications and engineering reports shall be prepared in accordance with the applicable provisions of Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*. The plans and specifications or engineering report shall be signed and sealed by a Professional Engineer registered in Florida.

(3) All information shall be typed or printed in ink. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

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D.E.P. South District

Northwest District
160 Governmental Center
Pensacola, Florida 32502-5794
850-595-8300

Northeast District
7825 Baymeadows Way
Suite 200B
Jacksonville, Florida 32256-7590
904-807-3300

Central District
3319 Maguire Blvd
Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8318
813-744-6100

South District
2295 Victoria Ave
Suite 364
Fort Myers, Florida 33902-2549
239-332-6975

Southeast District
400 North Congress Ave
Suite 200
West Palm Beach, Florida 33401
561-681-6600

PART II ~ PROJECT DOCUMENTATION

(1) Collection/Transmission System Permittee

Name George Wilson Title Manager
Company Name JDI PH Marina Holdings LLC
Address 555 Skokie Blvd, Suite 555
City North Brook State IL Zip 60062
Telephone 305-451-3452 Fax Email

(2) General Project Information

Project Name Pilot House Marina/Restaruant
Location: County Monroe City Key Largo Section 33 Township 61 Range 39
Project Description and Purpose (including pipe length, range of pipe diameter, total number of manholes, and total number of pump stations) 600gal Boat Pump Out Station/Marina Building with 4" gravity line to new lift station; 250LF of 2" pressure line to existing 100LF of 4" gravity line, to existing lift station; 39LF 4" gravity thru grease trap to existing lift station. From existing lift station 177LF of 2" force main to KLWTD buffer tank.
Estimated date for: Start of construction 12/1/10 Completion of construction 1/1/11
Connections to existing system or treatment plant

(3) Project Capacity

A = Type of Unit	B = Number of Units	C = Population Per Unit	D = Total Population (Columns B x C)	E = Per Capita Flow	F = Total Average Daily Flow (Columns D x E)	G = Peak hour flow
Single-Family Home						
Mobile Home	8	1	8	75	600	100
Apartment						
Commercial, Institutional, or Industrial Facility*	*see below				6,200	1,033
Total					7,200	1,133

* Description of commercial, institutional, and industrial facilities and explanation of method used to estimate per capita flow for these facilities:
*Restaruant and Marina - water flow based upon water meter data.
*3,000 Additional flow for future boat pump out station.

(4) Pump Station Data (attached additional sheets as necessary)

Location	Type	Estimated Flow to the Station (GPD) Maximum	Average	Minimum	Operating Conditions [GPM @ FT (TDH)]
on-site	duplex submersible	15,000	7,200	0	19GPM@161'TDH
	sewage grinder				
	pump station				

(5) Collection/Transmission System Design Information

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project.

If this project has been designed to comply with the standards and criteria listed below, the engineer shall initial in ink before the standards or criteria. If any of the standards or criteria do not apply to this project, or if this project has not been designed to comply with the standards or criteria, mark "X" before the appropriate standard or criteria, and provide an explanation, including any applicable rule references, in (5)B. below.
Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit.

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General Requirements

1. The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. [RSWF 11.243]

2. Procedures are specified for operation of the collection/transmission system during construction. [RSWF 20.15]

3. The project is designed to be located on public right-of-ways, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]

4. The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]

5. The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]

6. The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g)(h) and (i) and (3), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(i) 3., F.A.C., are used, describe in Part II.C. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g), (h), and (i) and (3), F.A.C.]

Gravity Sewers

7. The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]

8. The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3]

9. All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]

10. Sewers are designed with uniform slope between manholes. [RWSF 33.44]

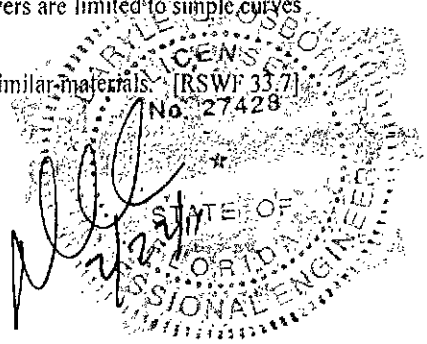
X 11. Where velocities greater than 15 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]

X 12. Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]

X 13. Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5]

X 14. Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7]

15. Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7]



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D.E.P. South District

16. Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81]

X 17. Appropriate deflection tests are specified for all flexible pipe. Testing is required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85]

18. Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95]

X 19. If an inverted siphon is proposed, documentation of its need is provided in Part II.C. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35]

Manholes

X 20. The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1]

X 21. Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2]

X 22. Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 22 inches. [RSWF 34.3]

X 23. Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5]

X 24. Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF 34.6]

X 25. Manhole inspection and testing for watertightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]

X 26. Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

Stream Crossings

X 27. Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21 and 48.5]

X 28. Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances form the shoreline to prevent discharge in the event the line is damaged. [62-604.400(2)(k)5., F.A.C.]

X 29. Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(k)1., F.A.C., and RSWF 36.11]

X 30. Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(k)2., F.A.C.]

X 31. Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(k)4., F.A.C.]

X 32. Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning and settlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37 and 48.5]

X 33. Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(k)3., F.A.C.]

Pump Stations

34. In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(c), F.A.C.]

35. Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2]

36. Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3]

X 37. Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42.21]

38. The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]

X 39. The design includes provisions for: 1) suitable and safe means of access for persons wearing self-contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23]

40. Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25]

41. Except for low-pressure grinder or STEP systems, multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36]

X 42. Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322]

X 43. Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. [RSWF-42.33] (Note, this provision is not applicable to grinder pumps.)

44. The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34]

45. The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lighting arrestors, surge capacitors, or other similar protection devices and phase protection. Note, pump stations serving a single building are not required to provide surge protection devices if not necessary to protect the pump station. [62-604.400(2)(b), F.A.C.]

46. The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements for Class I Group D, Division 1 locations; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35]

X 47. The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF 42.37]

48. Pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]

49. The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]

50. The design requires: 1) suitable shutoff valves be placed on the suction line of dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5]

51. The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]

52. The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF-42.63]

53. For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]

54. The design provides for adequate ventilation all pump stations; mechanical ventilation where the dry well is below the ground surface; permanently installed ventilation if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]

X 55. The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]

X 56. The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]

X 57. If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]

X 58. If dry well ventilation is continuous, design provides at least 6 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]

59. Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]

60. The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]

61. The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 1200 gpm or greater design peak flow. [RSWF 42.8]

62. The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]

Additional Items to be Completed for Suction-Lift Pump Stations

X 63. The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]

X 64. The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be remove for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

65. Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]

66. The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]

67. In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]

68. In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]

69. In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]

70. In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]

Emergency Operations for Pump Stations

71. Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.C. showing an equivalent level of reliability and public health protection. [RSWF 45]

72. The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 46.423 and 46.433]

73. The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 46.431]

74. The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 46.411, 46.417, and 46.432]

X 75. For permanently-installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 46.414 and 46.415]

X 76. For permanently-installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 46.422]

X 77. Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 46.44]

Force Mains

X 78. Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. [RSWF 48.1]

79. The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stubouts on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]

80. The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF 48.2]

81. Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater pump stations. [RSWF 48.4]

82. When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 for design. [RSWF 48.61]

83. Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]

84. Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]

*RSWF = *Recommended Standards for Wastewater Facilities* (1997) as adopted by rule 62-604.300(5)(c), F.A.C.

B. Explanation for Requirements or Standards Marked "X" in II(5)A. Above (Attach additional sheets if necessary):

PART III - CERTIFICATIONS

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of Pilot House Restaruant & Marina am fully aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed into service for any purpose other than testing for leaks and testing equipment operation.

Signed _____ Date 1-19-11

Name George Wilson Title Manager

*Attach a letter of authorization.

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of Pilot House Restaurant & Marina certify that we will be the Owner 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 applicable Department rules. Also I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date 1-19-11

Name George Wilson Title Manager

Company Name JDI PH Marina Holdings LLC

Address 555 Skokie Blvd, suite 555

City North Brook State IL Zip 60062

Telephone 305-451-3452 Fax _____ Email _____

** Attach a letter of authorization.*

(3) Wastewater Facility Serving Collection/Transmission System**

If this is a Notice of Intent to use a general permit, check here:

☒ The undersigned owner or authorized representative* of the Key Largo Wastewater Treatment District wastewater facility hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project Key Largo Wastewater Treatment District

County Monroe City Key Largo

DEP permit number FL 3 Expiration Date 8/18/2015

Maximum monthly average daily flow over the last 12 month period 0.12 MGD Month(s) used 12

Maximum three-month average daily flow over the last 12 month period 0.30 MGD Month(s) used 12

Current permitted capacity 0.95 MGD ☐ AADF ☒ MADF ☐ TMADF

Current outstanding flow commitments (including this project) against treatment plant capacity: _____

Signed _____ Date 1-18-11

Name Charles Fishbein Title General Manager

Address 98880 Overseas Highway

City Key Largo State FL Zip 33037

Telephone 305-451-4019 Fax 305-453-5807 Email cff@klwtd.com

** Attach a letter of authorization.*

*** If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.*

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of Pilot House Restaurant & Marina certify that we will be the Owner 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 applicable Department rules. Also I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date _____
Name George Wilson Title Manager
Company Name JDI PH Marina Holdings LLC
Address 555 Skokie Blvd, suite 555
City North Brook State IL Zip 60062
Telephone 305-451-3452 Fax _____ Email _____
* *Attach a letter of authorization.*

(3) Wastewater Facility Serving Collection/Transmission System**

N/A 2/22/11

If this is a Notice of Intent to use a general permit, check here: ☒

☒ The undersigned owner or authorized representative* of the Key Largo Wastewater Treatment District wastewater facility hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

☒ The undersigned owner or authorized representative* of the Key Largo Waste Water Treatment District wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project Key Largo Wastewater Treatment District
County Monroe City Key Largo
DEP permit number FL 3 Expiration Date 8/18/2015
Maximum monthly average daily flow over the last 12 month period 0.12 MGD Month(s) used 12
Maximum three-month average daily flow over the last 12 month period 0.30 MGD Month(s) used 12
Current permitted capacity 0.95 MGD ☐ AADF ☒ MADF ☐ TMADF
Current outstanding flow commitments (including this project) against treatment plant capacity: _____

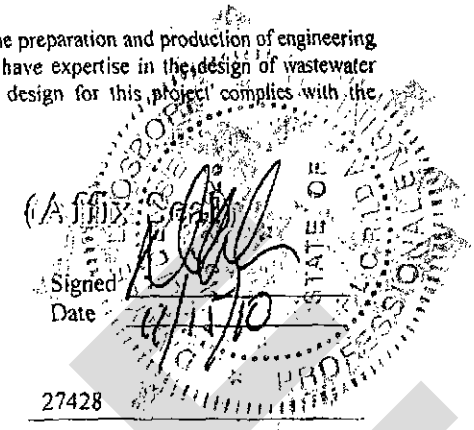
Signed _____ Date 1-18-11
Name Charles Fishburn Title General Manager
Address 98880 Overseas Highway
City Key Largo State FL Zip 33037
Telephone 305-451-4019 Fax 305-453-5807 Email cff@klwtd.com
* *Attach a letter of authorization.*
** *If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.*

RECEIVED
FEB 23 2011
D.E.P. Solid Waste

DARYL L. OSBORNE LICENSE NO. 27428 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/22/11

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that plans and specifications for this project have been completed; that I have expertise in the design of wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design for this project complies with the requirements of Chapter 62-604, F.A.C.



(Affix Seal)

Signed
Date 12/14/10

Name Daryle L. Osborn Florida Registration No. 27428
Company Name Keys Engineering Services, Inc.
Address 86801 Overseas Highway
City Islamorada State FL Zip 33036
Telephone 852-0262 Fax 852-2924 Email mail@keyseng.com
Portion of Project for Which Responsible

(Affix Seal)

Signed
Date

Name Florida Registration No.
Company Name
Address
City State Zip
Telephone Fax Email
Portion of Project for Which Responsible

(Affix Seal)

Signed
Date

Name Florida Registration No.
Company Name
Address
City State Zip
Telephone Fax Email
Portion of Project for Which Responsible

January 10, 2011

Attachment: Florida DEP Application Form #62-604.300(8)(a)

Re: Pilot House Marina & Restaruant

Listed below are the required explanations for the design certifications on this application form No. 7, 11 thru 14, 17, 19 thru 33, 37, 39, 42, 43, 47, 55 thru 58, 63, 64, 75 thru 78 that are marked "X"

Item	Explanation
7	This project is designed with 4" gravity sewers.
11	This project has no velocities greater than fps.
12	This project has no sewers on slopes 20% or greater.
13	This project has no manholes in the design
14	This project is constructed with no dissimilar materials.
17	This project has no flexible pipe in the design.
19	This project has no inverted sipher.
20	This project does not have any manholes in the design.
21	This project does not have any manholes in the design.
22	This project does not have any manholes in the design.
23	This project does not have any manholes in the design.
24	This project does not have any manholes in the design.
25	This project does not have any manholes in the design.
26	This project does not have any manholes in the design.
27	This project does not cross any streams
28	This project does not cross any streams.
29	This project does not cross any streams.
30	This project does not cross any streams.
31	This project does not cross any streams.
32	This project does not cross any streams.
33	This project does not cross any streams.

37 This pump station design does include drywell.

39 This pump station design is based on a wet will submersible type pump station;
1) this station does not require any entry for service so no access is provided.
2) the wet well contains no screens nor mechanical equipment requiring inspection.
3) this station does not incorporate a drywell.
4) this pump station does not incorporate a drywell, we well does not have access for entry.
5) this pump station does not incorporate a drywell, we well does not have access for entry.

42 This pump station design does not include a bar rack, nor wastewater from 30" or larger sewers.

43 This pump station will use grinder pumps and will take exception to this provision.

47 This pump station design does not include drywell.

55 This pump stations design does not require intermittently operated ventilation.

56 This pump station design does not include a drywell.

57 this pump station has no permanent mechanical ventilation; portable is supplied for submersible stations.

58 This pump station design does not include drywell.

63 This pump station design is not suction-lift type pump station.

64 This pump station design is not suction-lift type pump station.

75 This pump station design does not include a combustion engine with fuel tank.

76 This pump station design does not include engine driven pumps.

77 This pump station design does not include any independent substations for emergency power.

78 This pump station design uses a grinder pump station with less than 4" diameter force main will still maintaining 2 feet or more per second velocities of the wastewater through the force main.

Loss of Head – Barnes Pump

Flow Rate = 19gpm = .0x42cfs

Flow Area = $3.14(1.25)^2/4 = .012$

Flow Velocity = .0x42/.012 = 35

Reynolds* = R@ = $0.166(3.2)/\underline{1.41@^{-5}} = 0.37@^{-5}$

Relative roughness of pipe = .0000037/.167 = $\underline{2.2@^{-5}}$

Moody Friction Diagram = F = 0.021 = .71

Friction Loss

$.021(60)(1.9)^2(0.71)(32.2) = 4.54/4.57 = 1.0'$

Total Head Loss = 1'

1x62.4 = 62.4#/ft

Normal Operating Condition

19gpm = 160tdh

Buoyancy Calculations – Barnes Pump Station – 1050 gallon concrete tank

Assume 80% void volume in tank

.8 (1050) / 7.48 = 112#

Uplift

112 x 62.4 = 7,007

Weight of Materials

Water - .2 (1050) / 7.48 x 62.4	=1,752#
Equipment (Pumps, etc.)	= 500#
Tank	= 7,800#
	10,052#

ok

Loss of Head – Liberty Pump

Flow Rate = 10gpm = .0.22cfs

Flow Area = $3.14(2)^2/4$ = .022

Flow Velocity = .022/.022 = 10

Reynolds* = R@ = $0.166(1)/\underline{1.41@a^{-5}} = 0.118@a^{-5}$

Relative roughness of pipe = .0000012/.167

Moody Friction Diagram = F = 0.021 = .71

Friction Loss

Hr = $0.021(163)^1(1.0)^2/2(0.71)(32.2)$ = 5.7

Total Head Loss = 5.7

5.7x62.4 = 355#/ft

Normal Operating Condition

10gpm = 150tdh

Buoyancy Calculations – Liberty Pump Station – 1050 gallon concrete tank

Assume 80% void volume in tank = 28.26cf

.8 (28.26cf) = 22.6#

Uplift

22.6 x 62.4 = 1,411#

Weight of Materials

Water - .2 (28.26) x 62.4	=352#
Equipment (Pumps, etc.)	= 200#
Tank	= 500#
	1,052#

Add = Pour a 1' deep x 1' wide concrete rim around tank = 1,350#

2,402#

ok

Future Boat Pump-Out Station Criteria

1. Activity – Daily

   Average 2 boats/day @ 50 gallons = 100gpd
   Maximum 8 boats/day @ 50 gallons = 400gpd

2. Activity – Monthly

   9 days @ 400gpd = 3,600gpd
   21 days @ 100gpd = 2,100gpd

   Total = 5,700gpd

3. Design Criteria = 500gpd

4. Pump-Out Tank Size = 600gallons per DOH Criteria

Lift Station – Liberty Pumps D3848LSG Series 2HP Duplex Pumps

Ingram, Janice

From: Ingram, Janice
Sent: Monday, February 28, 2011 8:49 AM
To: 'Mail@keyseng.com'; 'monbo2@hotmail.com'; Ahmadi, Abdul; 'cff@klwtd.com'
Subject: RAI DEP PERMIT PILOT HOUSE MARINA RESTAURANT-281237-100-DWC/CM VAC(connecting to Key Largo WWTP)

Last Resp - 3/28/11

Issue

EMAIL SENT ON BEHALF OF James Oni, P.E.:

Dear Mr. Osborn, P.E.:

Your application for PILOT HOUSE MARINA/RESTAURANT-281237-100-DWC/CL(connecting to KEY LARGO WTTP) has been found to be incomplete. Pursuant to Chapter 62-4.055, F.A.C., please provide the following information:

It is important that your response and all revised pages be signed, sealed, and dated by an engineer registered in the State of Florida.

1. Revise page 1 to indicate this application is being processed as an individual permit with a $500 fee.
2. Revise the site plan sheet WW1 to include the size and length of the proposed 8" gravity lines. Also provide the profiles for this line to show the appropriate percentage of slope.
3. Provide the force main details, lift station details which include the 1 to 1 slope to the hopper bottom, 25 year/ 100 year flood elevations, operating conditions, the vacuum connection details, the buffer tank details, and the conflict details for water & sewer.
4. Please clarify the purpose of keeping the existing tank in the approximate location of the wastewater treatment facility, which is being abandoned. If you leave this tank, will it have some kind of pretreatment?

The application will remain incomplete. This information must be received in our office by March 28, 2011 or your application may be denied pursuant to the requirement of Section 120.60 F.S. and Rule 62-4.055, F.A.C.

Should you require clarification on any of these issues, just let me know at the number or email address listed below.

Rec'd page 2 - Revised
3-22-11 JI

Janice L. Ingram
Operations Analyst II
239-334-5652
janice.ingram@dep.state.fl.us

Ingram, Janice

From: Ingram, Janice
Sent: Monday, February 28, 2011 8:51 AM
To: 'Pauline Ingram'
Subject: FW: RAI DEP PERMIT PILOT HOUSE MARINA RESTAURANT-281237-100-DWC/CM VAC(connecting to Key Largo WWTP)

Pauline:
This is a copy of the email I sent to Daryl this morning. This is just for your information as Daryl seems to be out of the office quite often and does not always receive or respond to the emails promptly. Maybe you can help in this situation.
Thanks
Janice

From: Ingram, Janice
Sent: Monday, February 28, 2011 8:49 AM
To: 'Mail@keyseng.com'; 'monbo2@hotmail.com'; Ahmadi, Abdul; 'cff@klwtd.com'
Subject: RAI DEP PERMIT PILOT HOUSE MARINA RESTAURANT-281237-100-DWC/CM VAC(connecting to Key Largo WWTP)

EMAIL SENT ON BEHALF OF James Oni, P.E.:

Dear Mr. Osborn, P.E.:

Your application for PILOT HOUSE MARINA/RESTAURANT-281237-100-DWC/CL(connecting to KEY LARGO WTTP) has been found to be incomplete. Pursuant to Chapter 62-4.055, F.A.C., please provide the following information:

It is important that your response and all revised pages be signed, sealed, and dated by an engineer registered in the State of Florida.

1. Revise page 1 to indicate this application is being processed as an individual permit with a $500 fee.
2. Revise the site plan sheet WW1 to include the size and length of the proposed 8" gravity lines. Also provide the profiles for this line to show the appropriate percentage of slope.
3. Provide the force main details, lift station details which include the 1 to 1 slope to the hopper bottom, 25 year/ 100 year flood elevations, operating conditions, the vacuum connection details, the buffer tank details, and the conflict details for water & sewer.
4. Please clarify the purpose of keeping the existing tank in the approximate location of the wastewater treatment facility, which is being abandoned. If you leave this tank, will it have some kind of pretreatment?

The application will remain incomplete. This information must be received in our office by March 28, 2011 or your application may be denied pursuant to the requirement of Section 120.60 F.S. and Rule 62-4.055, F.A.C.

Should you require clarification on any of these issues, just let me know at the number or email address listed below.

2ND RAI

Ingram, Janice

From: Ingram, Janice
Sent: Tuesday, March 15, 2011 8:38 AM
To: 'Pauline Ingram'; 'Keys Engineering Services'
Subject: Additional Information for the Pilot House Project-281237-100-DEC/CM

Daryl:
Please respond to my request for additional information sent to you on 2/28/2011 for the above mentioned project. If you need further clarification on any of the requested issues, please give me a call.

Janice L. Ingram
Operations Analyst II
239-344-5652
janice.ingram@dep.state.fl.us

last Rest

Keys
ENGINEERING / SERVICES, INC.
"Serving The Florida Keys"

Daryle L. Osborn, P.E.

March 15, 2011

Florida Department of Environmental Protection
2295 Victoria Ave, #364
Ft. Myers, Florida

Attn: Janice Ingram

Re: Pilot House Marina Restaurant
281237-100-DWC/CM VAC(connecting to KI. WWTP)

The following revisions have been made to the above noted project referencing your comments dated 2/28/11:

1. Page 1 revised to an individual permit.
2. The configuration has been revised.
3. Refer to page WW4.
4. The configuration has been revised.

If you have any questions, please contact me at 305-852-0262.

Daryle L. Osborn, P.E.

86801 Overseas Highway • Islamorada, FL 33036
Phone: (305) 852-0262 • Fax: (305) 852-2924 • Email: keysengineering@aol.com

Ingram, Janice

From: Ingram, Janice
Sent: Thursday, March 17, 2011 1:08 PM
To: 'Keys Engineering Services'; 'Pauline Ingram'
Subject: Revised collection system for Pilot House Marina-281237-100 DWC/CM

Daryl:
I did receive the revised site plan sheet and page 1 of the application. It appears you have removed the 8" gravity line and instead placed 2" force main (pressure line) in its place. Please revise the project description on page 2 (2). Also provide the complete length of the 2" force main. You have two different sections but I'm not sure if the 250' is the total of both sections.
You can email a PDF copy of the revised page 2.

Janice L. Ingram
Operations Analyst II
239-344-5652
janice.ingram@dep.state.fl.us

CM

Ingram, Janice

From:	Ingram, Janice
Sent:	Wednesday, February 23, 2011 9:05 AM
To:	Ahmadi, Abdul; Rios, Gus; Oni, James
Subject:	*FW: RAI Permit Pilot House Marina/Restaurant-281237-100-DWC/CG(connecting to Key Largo)*

From: Ingram, Janice
Sent: Wednesday, February 23, 2011 9:04 AM
To: 'Keys Engineering Services'; 'Pauline Ingram'
Subject: FW: RAI Permit Pilot House Marina/Restaurant-281237-100-DWC/CG(connecting to Key Largo)

Mr. Osborn:
Thank you for your call yesterday, 2/22/2011 to discuss the issues outlined in this email. To confirm the major issues of this discussion, you will be submitting an additional fee of $250 in order to process this application as an individual permit rather than a general due to the fact that the connection is to be a vacuum which is considered an alternative system requiring an individual permit. The site plan is to be updated to reflect the changes to be made to the design and the revising of pages 2 and 10 of the application. After your submission it may be possible that other revisions might be necessary.
Thanks in advance for your assistance in completing these issues.
Janice

From: Ingram, Janice
Sent: Monday, February 21, 2011 4:05 PM
To: 'Keys Engineering Services'; 'Pauline Ingram'
Cc: Ahmadi, Abdul; Rios, Gus
Subject: RAI Permit Pilot House Marina/Restaurant-281237-100-DWC/CG(connecting to Key Largo)

Mr. Osborn, P.E.:

I have tried several times to contact you for additional information and clarification regarding the above mentioned application. Since this application was submitted as a general permit, the processing time is very limited.

It is unclear just exactly what the scope of the design entails as well as the connection point. As you have noted on the site plan, the connection point is a buffer tank, which usually indicates this would be a vacuum connection. If that is the case, a general permit cannot be processed for a vacuum system which is considered an alternative system and the submitted fee would be insufficient.

It is important that you contact me by Friday, February 25, 2011 to discuss these issues or this application may be denied as submitted.

Janice L. Ingram
Operations Analyst II

RAI- 2-24-11

Ingram, Janice

From:	Ingram, Janice
Sent:	Monday, February 21, 2011 4:05 PM
To:	'Keys Engineering Services'; 'Pauline Ingram'
Cc:	Ahmadi, Abdul; Rios, Gus
Subject:	RAI Permit Pilot House Marina/Restaurant-281237-100-DWC/CG(connecting to Key Largo)

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It is important that you contact me by Friday, February 25, 2011 to discuss these issues or this application may be denied as submitted.

Janice L. Ingram
Operations Analyst II
239-334-5652
janice.ingram@dep.state.fl.us

Ingram, Janice

From: Pauline Ingram [Pauline@keyseng.com]
Sent: Thursday, February 17, 2011 9:59 AM
To: Ingram, Janice
Subject: RE: Pilot House Marina

I just got the info: George Wilson is the managing member and his email address is monbo2@hotmail.com. I filled this information in on page 2 and will send it out today, you will have it tomorrow.

Pauline

From: Ingram, Janice [mailto:Janice.Ingram@dep.state.fl.us]
Sent: Thursday, February 17, 2011 10:01 AM
To: 'Pauline Ingram'
Subject: RE: Pilot House Marina

Thanks

From: Pauline Ingram [mailto:Pauline@keyseng.com]
Sent: Thursday, February 17, 2011 9:42 AM
To: Ingram, Janice
Subject: RE: Pilot House Marina

Okay, I will get that information and Fed Ex it out today.

Thank You,

Pauline

From: Ingram, Janice [mailto:Janice.Ingram@dep.state.fl.us]
Sent: Thursday, February 17, 2011 7:45 AM
To: 'Pauline Keys Engineering'
Subject: RE: Pilot House Marina

Pauline:
Before you send the original version of page 2, please include an email address for the applicant. Also the applicant is listed as being the manager. We require the permit to be issued to a corporate official, managing member, or principal executive officer of the company. Since the company name is listed as an LLC, possibly Mr. Wilson is the managing member. Please confirm.
Thanks.
Janice

From: Pauline Keys Engineering [mailto:pauline@keyseng.com]
Sent: Tuesday, February 15, 2011 8:22 AM

To: Ingram, Janice
Subject: Pilot House Marina

Janice,

Here is a signed & sealed copy of page 2. Would you like me to overnight the original or send it regular mail?

Pauline

Keys Engineering Services, Inc.
86801 Overseas Highway
Islamorada, FL 33036

Ph.#: 305.852.0262
Fx.#: 305.852.2924
Email: Pauline@keyseng.com
www.keyseng.com

Ingram, Janice

From: Ingram, Janice
Sent: Monday, February 14, 2011 8:23 AM
To: 'Keys Engineering Services'
Subject: FW: Pilot House Marina

Daryle/ Pauline:
I did receive the fee for the above listed project on Friday, 2/11/11. In preparing this application to be entered into our computer, I notice you have not completed the project description on page 2 (2). Without this information, I have no way of determining exactly why you are applying for a general permit. It is important that you update page 2 as soon as possible for me to continue the review process.
Any assistance you can provide will be greatly appreciated.
Janice Ingram

From: Ingram, Janice
Sent: Thursday, February 10, 2011 1:14 PM
To: 'Keys Engineering Services'
Subject: RE: Pilot House Marina

I will do my best.
Janice

From: Keys Engineering Services [mailto:Mail@keyseng.com]
Sent: Thursday, February 10, 2011 12:51 PM
To: Ingram, Janice
Subject: RE: Pilot House Marina

As soon as you get the payment can you put this project on the top of your list?

Thanks,

Pauline

From: Ingram, Janice [mailto:Janice.Ingram@dep.state.fl.us]
Sent: Thursday, February 10, 2011 12:19 PM
To: 'Keys Engineering Services'
Subject: RE: Pilot House Marina

Pauline:
Thank you for responding to my email. I am unable to proceed with this project without the required fee. As soon as I receive the fee, I will proceed with the review process.
Janice

From: Keys Engineering Services [mailto:Mail@keyseng.com]
Sent: Thursday, February 10, 2011 11:42 AM
To: Ingram, Janice
Subject: RE: Pilot House Marina

Here is a copy of the check that I am sending out via Fed Ex today. Please let me know if you need anything further for Pilot House so I can make sure Daryle is doing what he is supposed to be doing. I will also keep on him about Mrs. Macs.

Thank You,

Pauline Ingram
Keys Engnineering

From: Ingram, Janice [mailto:Janice.Ingram@dep.state.fl.us]
Sent: Wednesday, February 09, 2011 1:53 PM
To: 'Keys Engineering Services'
Subject: RE: Pilot House Marina

Pauline:
Thank you for the response. I also am waiting on Daryle to get back to me regarding an application for Mrs. Mac's Kitchen, which has several questions. I will email my request for additional information this afternoon.
Janice

From: Keys Engineering Services [mailto:Mail@keyseng.com]
Sent: Wednesday, February 09, 2011 1:39 PM
To: Ingram, Janice
Subject: RE: Pilot House Marina

Daryle is not in today, however when he comes in tomorrow I will have him write a check and I will overnight it to you.

Pauline Ingram
Keys Engineering Services, Inc.

From: Ingram, Janice [mailto:Janice.Ingram@dep.state.fl.us]
Sent: Wednesday, February 09, 2011 1:41 PM
To: 'Keys Engineering Services'
Subject: RE: Pilot House Marina

Pauline:
Thank you for your inquiry however, I have not sent any request for information as the fee was not submitted along with the application which I did receive on January 20th. I contacted Daryle Osborn, P. E. on January20, stating that a required fee of $250 to process this general permit was not received with the application. Until I receive the fee, this application is incomplete.

He assured me he would see that the fee was submitted, however to date, I have not received any such fee. At this point it would be best if either the appropriate fee is submitted as soon as possible or I return the application.

Please advise.

Janice Ingram
Operations Analyst II
239-344-5652
janice.ingram@dep.state.fl.us

From: Keys Engineering Services [mailto:Mail@keyseng.com]
Sent: Wednesday, February 09, 2011 12:47 PM
To: Ingram, Janice
Subject: Pilot House Marina

The owner of Pilot House Marina just called us to see if his permit was ready. We sent the package out on January 19th and the Fed Ex tracking said it was delivered to your office on the 20th . We have not gotten any comments concerning this project from DEP, do you know the status? Any help you could give would be greatly appreciated.

Thank You,

Pauline Ingram
Keys Engineering Services, Inc.
86801 Overseas Highway
Islamorada, FL 33036
305-852-0262 phone
305-852-2924 fax
mail@keyseng.com
Pauline@keyseng.com

Ingram, Janice

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Thank You,

Pauline Ingram
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Operations Analyst II
239-344-5652
janice.ingram@dep.state.fl.us

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Herschel T. Vinyard, Jr. is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

From: Keys Engineering Services [mailto:Mail@keyseng.com]
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86801 Overseas Highway
Islamorada, FL 33036
305-852-0262 phone
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