



**Interoffice Memorandum**


APPROVED  
BY ORANGE COUNTY BOARD  
OF COUNTY COMMISSIONERS

MAY 19 2015 KH/BS

**AGENDA ITEM**

April 16, 2015

TO: Mayor Teresa Jacobs  
-AND-  
Board of County Commissioners

FROM: Jon V. Weiss, P.E., Director   
Community, Environmental and Development  
Services Department

**CONTACT PERSON: Lori Cunniff, CEP, CHMM, Deputy Director  
Community, Environmental and Development  
Services Department  
(407) 836-1405**

SUBJECT: May 19, 2015 – Consent Item  
Approval of First Amendment to the Lake Holden Stormwater  
Alum Treatment Interlocal Agreement

The Environmental Protection Division (EPD) is requesting approval of the First Amendment to the Lake Holden Stormwater Alum Treatment Interlocal Agreement (Agreement) between Orange County (County) and the City of Orlando (City).

The Lake Holden Alum Treatment System was constructed in the mid 1990's to provide for reduced stormwater pollution to Lake Holden. The Board of County Commissioners (Board) approved the original Agreement on September 26, 1995. The basic components of the Agreement identified the County as the owner of the land, building, and system, and the City as the entity responsible for operation and maintenance of the system. The Agreement expired in January 2005. The Board approved a new Agreement on September 20, 2011. The 2011 Agreement identifies the County as the owner of the land, building, and system, and the City as the entity responsible for operation and maintenance of the system.

This first amendment to the 2011 Agreement and the Bill of Sale in the amount of \$10 proposes to convey ownership of the real property, the structure, and the internal equipment to the City. The proposed amendment identifies the City as the entity to operate and maintain the system. The City agrees to maintain and operate the system using the design alum addition rate of 7.5 mg alum per liter of stormwater. The

Page Two

May 19, 2015—Consent Item

Approval of First Amendment to the Lake Holden Stormwater Alum Treatment Interlocal Agreement

Agreement also stipulates that the City must continue to operate the alum dosing facility according to the study "Evaluation of the Current Status and Potential Water Quality Improvement Options for Lake Holden" prepared by Environmental Research and Design, February 2010. The Agreement requires the City to continue providing the County with quarterly operation and maintenance reports.

The County Attorney's Office has approved the first amendment to the Agreement as to its form.

**ACTION REQUESTED: Approval of First Amendment to the Lake Holden Stormwater Alum Treatment Interlocal Agreement by and between the City of Orlando, Florida and Orange County, Florida and Bill of Sale between Orange County, Florida and City of Orlando, and authorization to record Agreement. District 3**

JVW/LC: mg

Attachments

APPROVED  
BY ORANGE COUNTY BOARD  
OF COUNTY COMMISSIONERS  
MAY 19 2015 KH/BS

**FIRST AMENDMENT TO THE LAKE HOLDEN STORMWATER  
ALUM TREATMENT INTERLOCAL AGREEMENT**

**THIS FIRST AMENDMENT TO THE LAKE HOLDEN STORMWATER ALUM TREATMENT INTERLOCAL AGREEMENT ("AGREEMENT") is made and entered into as of the Effective Date defined herein by and between the CITY OF ORLANDO, FLORIDA, a municipal corporation organized and existing under the laws of the State of Florida ("CITY"), whose mailing address is 400 S. Orange Ave., Orlando, Florida 32802, and ORANGE COUNTY, FLORIDA, a charter county and political subdivision of the State of Florida ("COUNTY"), whose mailing address is P.O. Box 1393, Orlando, Florida 32802.**

**WITNESSETH:**

**WHEREAS, this AGREEMENT is entered into under the authority of the Florida Interlocal Act of 1969, codified at Section 163.01, Florida Statutes; and**

**WHEREAS, COUNTY has authority to enter into agreements pursuant to Section 125.01, Florida Statutes; and**

**WHEREAS, CITY has authority to enter into agreements pursuant to Section 166.021, Florida Statutes; and**

**WHEREAS, on December 22, 1980, the Orange County Board of County Commissioners ("BOARD") adopted a resolution continuing and re-establishing the Lake**

Holden Municipal Service Taxing Unit ("MSTU") for purposes of general improvement, and enhancement of Lake Holden; and

**WHEREAS**, on October 30, 1995, the CITY and the COUNTY entered into an Interlocal Agreement setting forth responsibilities and obligations concerning the design, construction, operation and maintenance of an alum injection treatment system ("SYSTEM") on property owned by the COUNTY (Parcel No. 03-23-29-0180-55-001), described more particularly on Exhibit "A," attached hereto and incorporated herein ("PROPERTY") to address urban stormwater pollution adversely affecting Lake Holden; and

**WHEREAS**, the SYSTEM was designed and constructed pursuant to Permit No. 42-095-1668IG ("PERMIT") issued by the St. Johns River Water Management District ("DISTRICT") on October 10, 1995 (all references to the PERMIT in this AGREEMENT shall include any subsequent modifications and amendments, as approved by the DISTRICT); and

**WHEREAS**, on or about October 30, 2005, the Interlocal Agreement expired, and on or about September 29, 2011 the CITY and the COUNTY entered into a new Interlocal Agreement continuing the operation and maintenance of the SYSTEM by the CITY on PROPERTY owned by the COUNTY; and

**WHEREAS**, presently, nearly one hundred percent (100%) of the stormwater treated by the SYSTEM originates from within the CITY's jurisdictional boundaries; and

**WHEREAS**, the CITY and the COUNTY desire to enter into this **FIRST AMENDMENT TO THE AGREEMENT** under the terms and conditions as set forth below:

**NOW, THEREFORE,** in consideration of mutual benefits, obligations, covenants, terms, conditions and restrictions contained herein, the sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. The CITY shall be responsible for the satisfactory maintenance and operation of the SYSTEM in its current configuration and design in accordance with the PERMIT at its sole cost and expense, including, but not limited to, routine SYSTEM inspection and maintenance, pump maintenance, calibration, repair and replacement, pipe repair and replacement. The CITY shall also provide the COUNTY with quarterly reports detailing the operation and maintenance activities conducted on the SYSTEM, including for repairs, replacement or upgrades.

2. Within thirty (30) days of the execution of this AGREEMENT, the COUNTY shall notify the DISTRICT of the conveyance of the permitted SYSTEM to the CITY and request the PERMIT be transferred to the CITY.

3. COUNTY shall convey its entire interest in the PROPERTY to the CITY by County Deed, free and clear of encumbrances and subject to the Right of Re-Entry provision contained therein, within sixty (60) days of the recording of this Agreement in the Official Records of Orange County, Florida. COUNTY shall also convey its entire interest in the SYSTEM to the CITY by a Bill of Sale, within sixty (60) days of the execution of this AGREEMENT. Prior to conveyance of the PROPERTY and SYSTEM to the CITY as described herein, COUNTY shall deliver to the CITY for its review and approval (i) a signed/sealed survey (sketch and legal description) of the PROPERTY in NAVD88 showing the boundary of the PROPERTY and the location of the SYSTEM improvements within the PROPERTY and (ii) any

and all plans and specifications, maintenance records, study materials/data and reports, and any other such documentation, in the possession of the COUNTY relating to the SYSTEM.

4. Upon said conveyances, the CITY shall own the personal and real property which comprise the SYSTEM and CITY shall become responsible for maintaining the PROPERTY and exterior structure housing the SYSTEM in a reasonable manner, including all mowing and building maintenance. The CITY shall also become responsible for ensuring repair of any damage to the SYSTEM (to the CITY's satisfaction in its sole reasonable discretion) unrelated to mechanical breakdown and mechanical failure, including but not limited to, damage to the SYSTEM caused by vandalism, weather events, other acts of god, force majeure events and acts of third parties. This AGREEMENT does create an ownership and possessory interest in the CITY of the SYSTEM and the PROPERTY (Parcel No. 03-23-29-0180-55-001).

5. The CITY shall secure all permits, approvals, and favorable regulatory actions as may be necessary for the continued operation and maintenance of the SYSTEM. The CITY shall be solely responsible for ensuring the repair or replacement, (to the CITY's satisfaction in its sole reasonable discretion) beginning with the Effective Date of this AGREEMENT, to make the SYSTEM operative again after mechanical failure or mechanical breakdown. It is expressly agreed that any and all improvements or upgrades to the SYSTEM shall become the sole and exclusive property of the CITY upon their installation. Notwithstanding the above terms, CITY shall not be responsible for initiating or completing any studies or analyses of Lake Holden other than as determined necessary by the CITY in its sole reasonable discretion.

6. The CITY shall continue to operate the SYSTEM using the design dose rate of 7.5 mg alum per liter of stormwater in accordance with the February 2010 Environmental

Research and Design, Inc. study "Evaluation of the Current Status and Potential Water Quality Improvement Options for Lake Holden". The CITY shall provide the COUNTY with written notice and justification in the event the CITY elects to change the alum addition rate.

7. CITY shall maintain separate books and records of accounting in accordance with generally accepted governmental accounting procedures, principles, and practices which sufficiently and properly reflect all reviews and expenditures of funds provided for under this AGREEMENT.

8. This AGREEMENT is entered into solely for the benefit of the parties hereto. There are no third-party beneficiaries and no privity is established hereby between the COUNTY and any agent, consultant, contractor (or its subcontractors) engaged by the CITY in relation to the SYSTEM or between the CITY and any agent, consultant, contractor (or its subcontractors) engaged by the COUNTY in relation to the SYSTEM. This AGREEMENT shall not be assignable.

9. This AGREEMENT constitutes the complete understanding of the parties as to the matters set out herein and there are no other agreements or understandings between the parties except as above.

10. This AGREEMENT may be amended only by express written instrument approved by the CITY COUNCIL and the BOARD, and executed by the authorized officers of each party.

11. Any notice required to be given or otherwise given by one party to the other party shall be in writing and shall be deemed delivered when given by hand delivery; five (5) days after being deposited in the United States Mail, postage prepaid, certified or registered; or the

next business day after being deposited with a recognized overnight mail or courier delivery service; or when transmitted by facsimile or telecopy transmission, with receipt acknowledged upon transmission; and addressed as follows:

As to the CITY: Chief Administrative Officer  
City of Orlando  
400 S. Orange Ave.  
Orlando, Florida 32801  
Facsimile: 407-246-3342

As to the COUNTY: Manager, Environmental Protection Division  
800 Mercy Drive, Suite 4  
Orlando, Florida 32808  
Facsimile: (407) 836-1499

With a copy to: County Attorney  
Orange County Administration Center  
201 South Rosalind Avenue  
Orlando, Florida 32801  
Facsimile: 407-836-5888

In all cases, notices shall be deemed delivered to a party only upon delivery of copies to the persons indicated above in the same manner as for the party being notified. Either party may change its designated official or address for receipt of notice by giving notice of such change to the other party in the manner provided in this section.

12. As required by Section 163.01(11), Florida Statutes, this AGREEMENT shall be recorded in the Official Records of Orange County, Florida upon execution by both parties, and shall take effect upon the date of recording (the "Effective Date"). The CITY shall pay all recording costs necessary to record this AGREEMENT in the public records.

13. The parties shall use reasonable diligence to complete the obligations set forth herein but shall not be liable to each other, or their successors or assigns for damages, costs, attorney's fees (including costs or attorney's fees on appeal) for breach of contract or otherwise



for failure, suspension, demolition or other variations of services occasioned by acts of god or of the public enemy, acts of other government (including regulatory entities or court) in its sovereign or prior contractual capacity, fires, floods, epidemics, quarantines, restrictions, strikes or failure or breakdown of transmission or other facilities.

IN WITNESS WHEREOF, the parties have executed this AGREEMENT on the dates written below.

CITY OF ORLANDO

By: [Signature]  
Mayor/Mayor Pro Tem

Date: 3/11/15

ATTEST:

[Signature]  
Alana Brenner, City Clerk

APPROVED AS TO FORM AND LEGALITY  
for the use and reliance of the City of Orlando,  
Florida, only

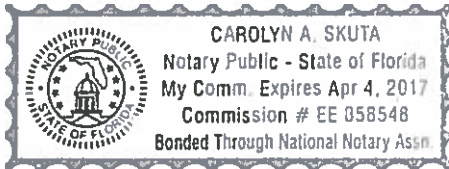
3/17/15  
[Signature]  
City Attorney  
Orlando, Florida

STATE OF FLORIDA )  
COUNTY OF ORANGE )

PERSONALLY APPEARED before me, the undersigned authority, Robert Stuart  
and Alana Brenner, personally known to me, and known by me to be the Mayor and City  
Clerk, respectively, and acknowledged before me that they executed the foregoing instrument on  
behalf of the City of Orlando, Florida, as its true act and deed, and that they were duly authorized  
to do so.

WITNESS my hand and official seal this 11 day of March, 2014.

[Signature]  
NOTARY PUBLIC  
Print Name: \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_





ORANGE COUNTY, FLORIDA  
By: Board of County Commissioners

By: *Teresa Jacobs*  
Teresa Jacobs  
Orange County Mayor

Date: *5.19.15*

ATTEST: Martha O. Haynie, County Comptroller  
As Clerk of the Board of County Commissioners

By: *Craig A. Stopysa*  
*fd* Deputy Clerk

Printed Name: *Craig A. Stopysa*

## **Exhibit "A"**

**Property Appraiser's Parcel Identification Number:**

**03-23-29-0180-55-001**

That certain tract of land lying East of Lot 13 Block 55 of Angebilt Addition Subdivision recorded in Plat Book H, Page 79 and lying Southwesterly of Michigan Street per Official Records Book 2137, Page 132 and Road Book 1, Page 130 and Northerly of 29<sup>th</sup> Street as constructed, according to the Public Records of Orange County, Florida.

APPROVED  
BY ORANGE COUNTY BOARD  
OF COUNTY COMMISSIONERS  
MAY 19 2015 KH/BS

### BILL OF SALE

KNOW ALL MEN BY THESE PRESENTS:

That ORANGE COUNTY, FLORIDA, a charter county and political subdivision of the state of Florida ("County"), for and in consideration of the sum of Ten Dollars (\$10.00) in lawful money (and other good and valuable considerations, the receipt and adequacy of which is hereby acknowledged) to it paid by CITY OF ORLANDO, a Florida municipal corporation organized and existing under the laws of the State of Florida, (the "City") has granted, bargained, sold, transferred, set over and delivered, and by these presents does hereby grant, bargain, sell, transfer, set over and deliver unto the City, its successors and assigns, all the goods, rights, title, interests, chattels and properties owned by the County which are used or held for use by County exclusively in connection with the Lake Holden Alum Treatment System ("system") used to address urban stormwater pollution adversely affecting Lake Holden and located on property in Orange County, Florida, more particularly described in Exhibit "A" and consisting of all real, personal and mixed property exclusively used or exclusively held for use in connection with the system, more particularly described in the Agreement. The assets being conveyed hereunder shall hereinafter be referred to as the "Purchased Assets". For purposes hereof, the term "Agreement" shall refer to that certain First Amendment to the Lake Holden Stormwater Alum Treatment Interlocal Agreement between Seller and City executed on the same date herewith, pertaining to the purchase and sale of the Purchased Assets.

Said Purchased Assets shall include the following:

That system and other facility components used in connection with the alum injection treatment system, including, but not limited to, those items more particularly described in Exhibit "B" attached hereto and incorporated by this reference.

TO HAVE AND TO HOLD the same unto the City, its successors and assigns forever.

And the County, for itself and its successors, hereby covenants to and with City, its successors and assigns, that it is the lawful owner of the said Purchased Assets; that they are free from all liens and encumbrances; that it has good right to sell the same as aforesaid; and that it will warrant and defend the same against the lawful claims and demands of all persons whomsoever.

IN WITNESS WHEREOF, the County has caused its official seal to be affixed by its officer, hereunto duly authorized, on the date set forth below.



ORANGE COUNTY, FLORIDA  
By: Board of County Commissioners

By: *Teresa Jacobs*  
Teresa Jacobs  
Orange County Mayor

Date: 5.19.15

ATTEST: Martha O. Haynie, County Comptroller  
As Clerk of the Board of County Commissioners

By: *Craig A. Stopyna*  
foi Deputy Clerk

**Exhibit "A"**

**Property Appraiser's Parcel Identification Number:**

**03-23-29-0180-55-001**

That certain tract of land lying East of Lot 13 Block 55 of Angebilt Addition Subdivision recorded in Plat Book H, Page 79 and lying Southwesterly of Michigan Street per Official Records Book 2137, Page 132 and Road Book 1, Page 130 and Northerly of 29<sup>th</sup> Street as constructed, according to the Public Records of Orange County, Florida.

# Exhibit "B"

## Lake Holden Alum Treatment System Upgrade – Final Plans October 2012

### LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE ORANGE COUNTY, FLORIDA

**PLANT SIZE**

**PROJECT TO COMPLETION**

**TO DELAWARE**   **TO DOWNTOWN**   **TO STATE ROAD 19**   **TO STATE ROAD 32**   **TO STATE ROAD 35**   **TO STATE ROAD 37**   **TO STATE ROAD 38**   **TO STATE ROAD 39**   **TO STATE ROAD 40**   **TO STATE ROAD 41**   **TO STATE ROAD 42**   **TO STATE ROAD 43**   **TO STATE ROAD 44**   **TO STATE ROAD 45**   **TO STATE ROAD 46**   **TO STATE ROAD 47**   **TO STATE ROAD 48**   **TO STATE ROAD 49**   **TO STATE ROAD 50**   **TO STATE ROAD 51**   **TO STATE ROAD 52**   **TO STATE ROAD 53**   **TO STATE ROAD 54**   **TO STATE ROAD 55**   **TO STATE ROAD 56**   **TO STATE ROAD 57**   **TO STATE ROAD 58**   **TO STATE ROAD 59**   **TO STATE ROAD 60**   **TO STATE ROAD 61**   **TO STATE ROAD 62**   **TO STATE ROAD 63**   **TO STATE ROAD 64**   **TO STATE ROAD 65**   **TO STATE ROAD 66**   **TO STATE ROAD 67**   **TO STATE ROAD 68**   **TO STATE ROAD 69**   **TO STATE ROAD 70**   **TO STATE ROAD 71**   **TO STATE ROAD 72**   **TO STATE ROAD 73**   **TO STATE ROAD 74**   **TO STATE ROAD 75**   **TO STATE ROAD 76**   **TO STATE ROAD 77**   **TO STATE ROAD 78**   **TO STATE ROAD 79**   **TO STATE ROAD 80**   **TO STATE ROAD 81**   **TO STATE ROAD 82**   **TO STATE ROAD 83**   **TO STATE ROAD 84**   **TO STATE ROAD 85**   **TO STATE ROAD 86**   **TO STATE ROAD 87**   **TO STATE ROAD 88**   **TO STATE ROAD 89**   **TO STATE ROAD 90**   **TO STATE ROAD 91**   **TO STATE ROAD 92**   **TO STATE ROAD 93**   **TO STATE ROAD 94**   **TO STATE ROAD 95**   **TO STATE ROAD 96**   **TO STATE ROAD 97**   **TO STATE ROAD 98**   **TO STATE ROAD 99**   **TO STATE ROAD 100**

**ORANGE COUNTY GOVERNMENT FLORIDA**

**TRAVIS A. JACOBSON, COUNTY ALTERNATE**

**BOARD OF COUNTY COMMISSIONERS**

ALBERT BROWN   JERRY R. HARRIS   DAVID J. WILSON  
BOB MARRAS   JERRY D. HERRON   GUY W. WILSON  
JOHN HARTMAN   JERRY M. HERRON   GUY W. WILSON  
RICHARD THOMPSON   JERRY M. HERRON   GUY W. WILSON  
TOD SWANSON   JERRY M. HERRON   GUY W. WILSON  
TOD SWANSON   JERRY M. HERRON   GUY W. WILSON  
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TOD SWANSON   JERRY M. HERRON   GUY W. WILSON  
TOD SWANSON   JERRY M. HERRON   GUY W. WILSON

**MALE MANSARD JR., PUBLIC WORKS DIRECTOR**  
**LOUI CORRY, ENVIRONMENTAL PROTECTION SYSTEMS MANAGER**

**NOTICE:** THESE PLANS AND SPECIFICATIONS ARE SUBMITTED TO THE BOARD OF COUNTY COMMISSIONERS FOR REVIEW AND APPROVAL. THE BOARD OF COUNTY COMMISSIONERS HAS REVIEWED AND APPROVED THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN. THE BOARD OF COUNTY COMMISSIONERS HAS REVIEWED AND APPROVED THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN. THE BOARD OF COUNTY COMMISSIONERS HAS REVIEWED AND APPROVED THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN.

**CERTIFICATION TO PLANS**

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AND SPECIFICATIONS HAVE BEEN REVIEWED AND APPROVED FOR CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN. THE BOARD OF COUNTY COMMISSIONERS HAS REVIEWED AND APPROVED THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE PROJECT DESCRIBED HEREIN.

**FINAL PLANS  
OCTOBER 2012**



ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY	
		UNIT	AMOUNT
1	CONCRETE	1.0	1.0
2	REINFORCING	1.0	1.0
3	INSTALLATION AND ABUTMENT OF FIBER AND WATER PUMP	1.0	1.0
4	CONCRETE	1.0	1.0
5	INSTALLATION OF WATER PUMP	1.0	1.0
6	CONCRETE	1.0	1.0
7	INSTALLATION OF WATER PUMP	1.0	1.0
8	CONCRETE	1.0	1.0
9	INSTALLATION OF WATER PUMP	1.0	1.0
10	CONCRETE	1.0	1.0
11	INSTALLATION OF WATER PUMP	1.0	1.0
12	CONCRETE	1.0	1.0
13	INSTALLATION OF WATER PUMP	1.0	1.0
14	CONCRETE	1.0	1.0
15	INSTALLATION OF WATER PUMP	1.0	1.0
16	CONCRETE	1.0	1.0
17	INSTALLATION OF WATER PUMP	1.0	1.0
18	CONCRETE	1.0	1.0
19	INSTALLATION OF WATER PUMP	1.0	1.0
20	CONCRETE	1.0	1.0
21	INSTALLATION OF WATER PUMP	1.0	1.0
22	CONCRETE	1.0	1.0
23	INSTALLATION OF WATER PUMP	1.0	1.0
24	CONCRETE	1.0	1.0
25	INSTALLATION OF WATER PUMP	1.0	1.0
26	CONCRETE	1.0	1.0
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44	CONCRETE	1.0	1.0
45	INSTALLATION OF WATER PUMP	1.0	1.0
46	CONCRETE	1.0	1.0
47	INSTALLATION OF WATER PUMP	1.0	1.0
48	CONCRETE	1.0	1.0
49	INSTALLATION OF WATER PUMP	1.0	1.0
50	CONCRETE	1.0	1.0

**PAY ITEM FOOTNOTES**

- 01-1 ADJUSTS THE COST OF ALL LABOR, MATERIALS, AND ALL OTHER ITEMS NECESSARY TO COMPLETE INSTALLATION, CONTRACTOR SHALL PLACE ALL MATERIALS AND SUPPLIES ON SITE AT THE TIME OF CONSTRUCTION.
- 01-2 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-3 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-4 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-5 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-6 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-7 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-8 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-9 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.
- 01-10 ADJUSTS THE COST OF ALL ITEMS REQUIRED FOR MAINTENANCE OF TURBIDITY AND INTERLOCK SYSTEMS FOR ALL TURBIDITY SYSTEMS.

**SUMMARY OF 2" SCH. 80 PVC CONDUIT**  
(FOR INFORMATION ONLY)

LOCATION	SIZE	LENGTH (FT)		REMARKS
		P	F	
LAKE HOLDEN TRENCH	1"	48		FROM STORM PLUM WATERING SYSTEM TO D.I. JUNCTION BOX
TOTAL		48		

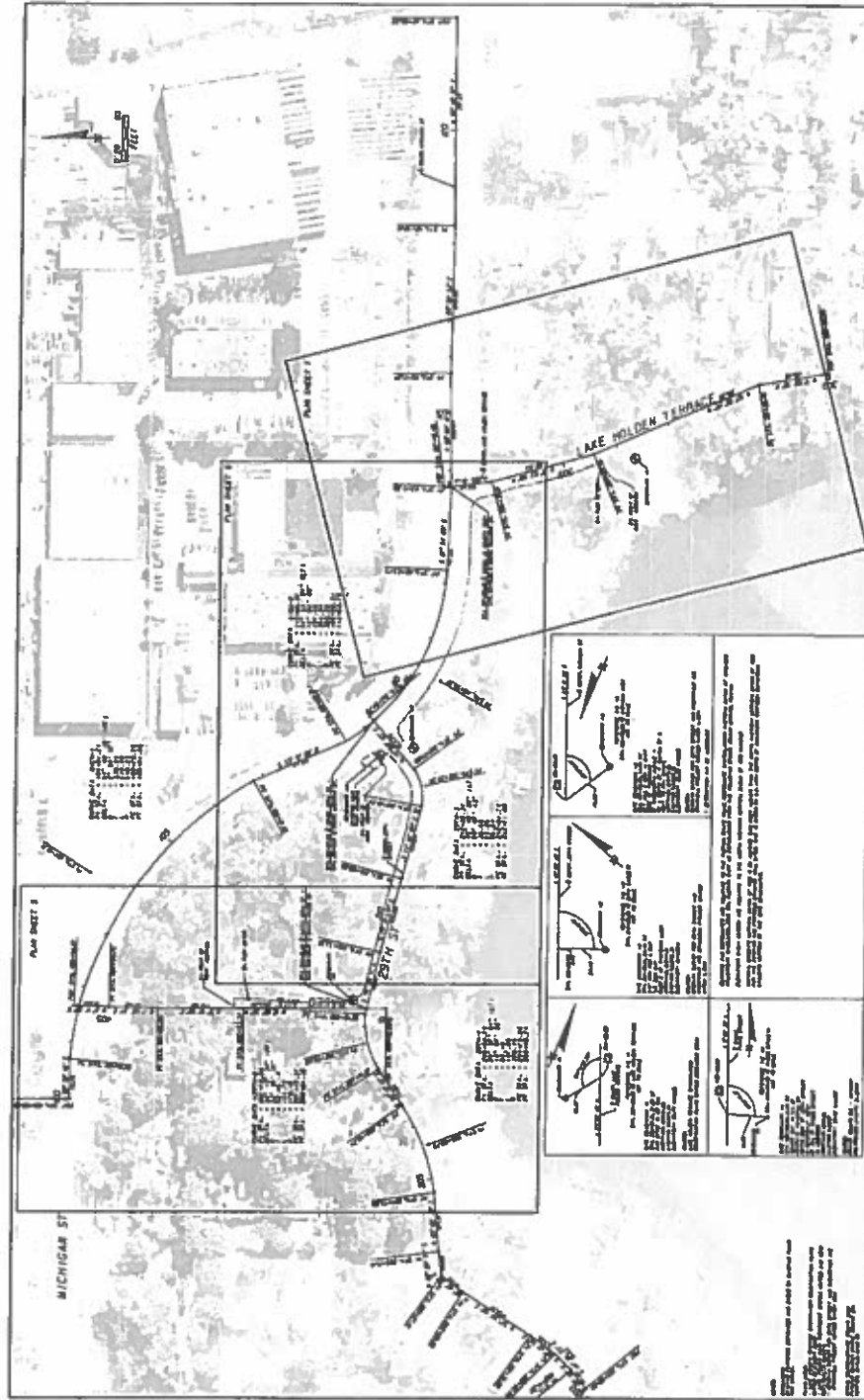
**SUMMARY OF SIGNAL CABLE**  
(FOR INFORMATION ONLY)

LOCATION	SIZE	LENGTH (FT)		REMARKS
		P	F	
LAKE HOLDEN TRENCH	1"	200		FROM STORM PLUM WATERING SYSTEM TO PANEL #111 811, METAL ENCLOSURE
TOTAL		200		

**SUMMARY OF TURBIDITY BARRIER**  
(FOR INFORMATION ONLY)

LOCATION	REMARKS	LENGTH (FT)	
		P	F
LAKE HOLDEN TRENCH	INSTALL BARRIER	100	100
TOTAL		100	100

<p><b>ORANGE COUNTY GOVERNMENT</b> FLORIDA</p>  <p>LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE PROJECT</p>	<p><b>SUMMARY OF PAY ITEMS</b></p>	<p><b>SUMMARY OF TURBIDITY BARRIER</b></p>	<p><b>SUMMARY OF SIGNAL CABLE</b></p>	<p><b>SUMMARY OF 2" SCH. 80 PVC CONDUIT</b></p>	<p><b>PAY ITEMS &amp; QUANTITIES</b></p>	<p>SHEET NO. 2</p>
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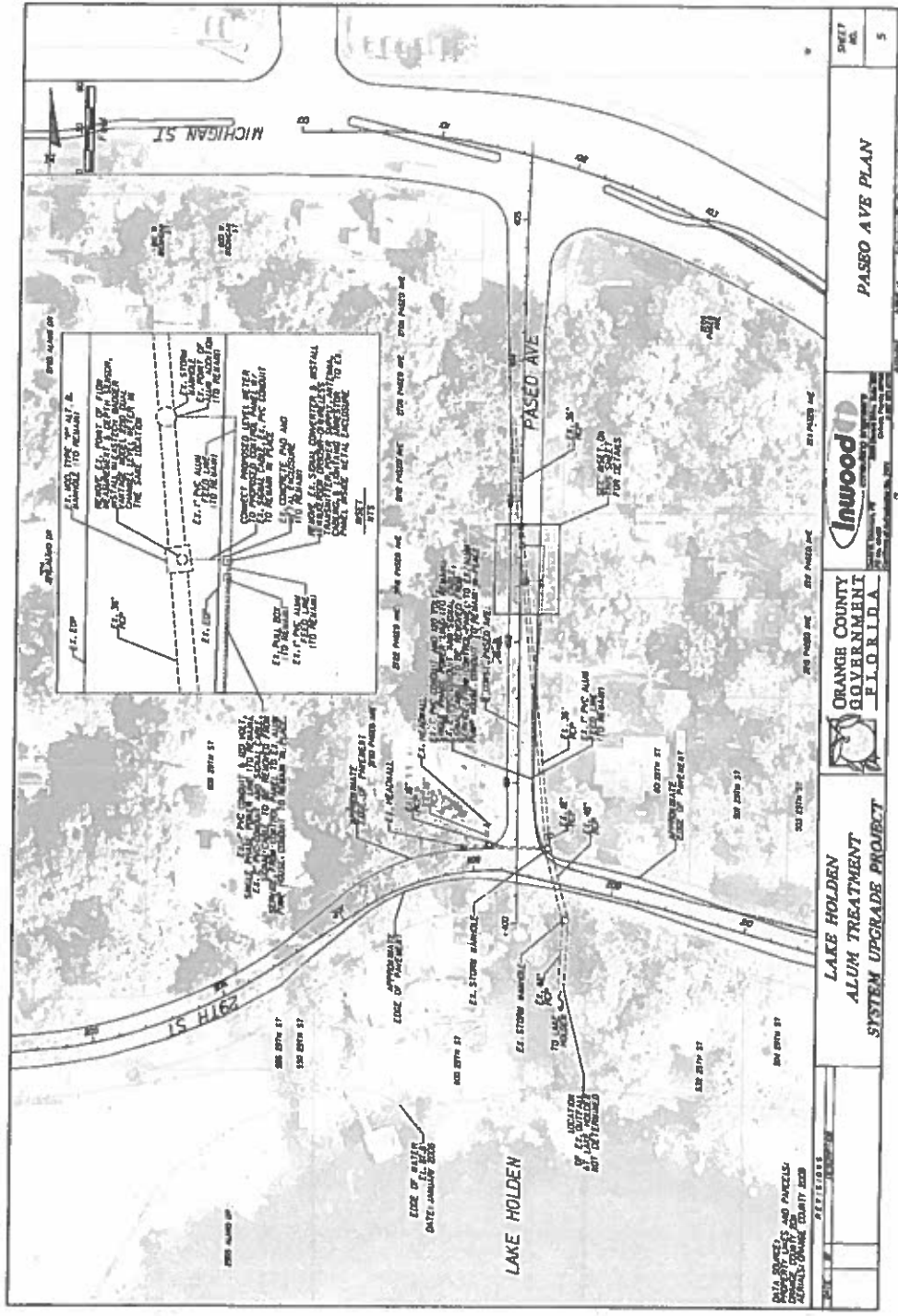
		<b>PROJECT LAYOUT</b>		SHEET NO. <b>3</b>
		<b>LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE PROJECT</b>		
ORANGE COUNTY GOVERNMENT FLORIDA				

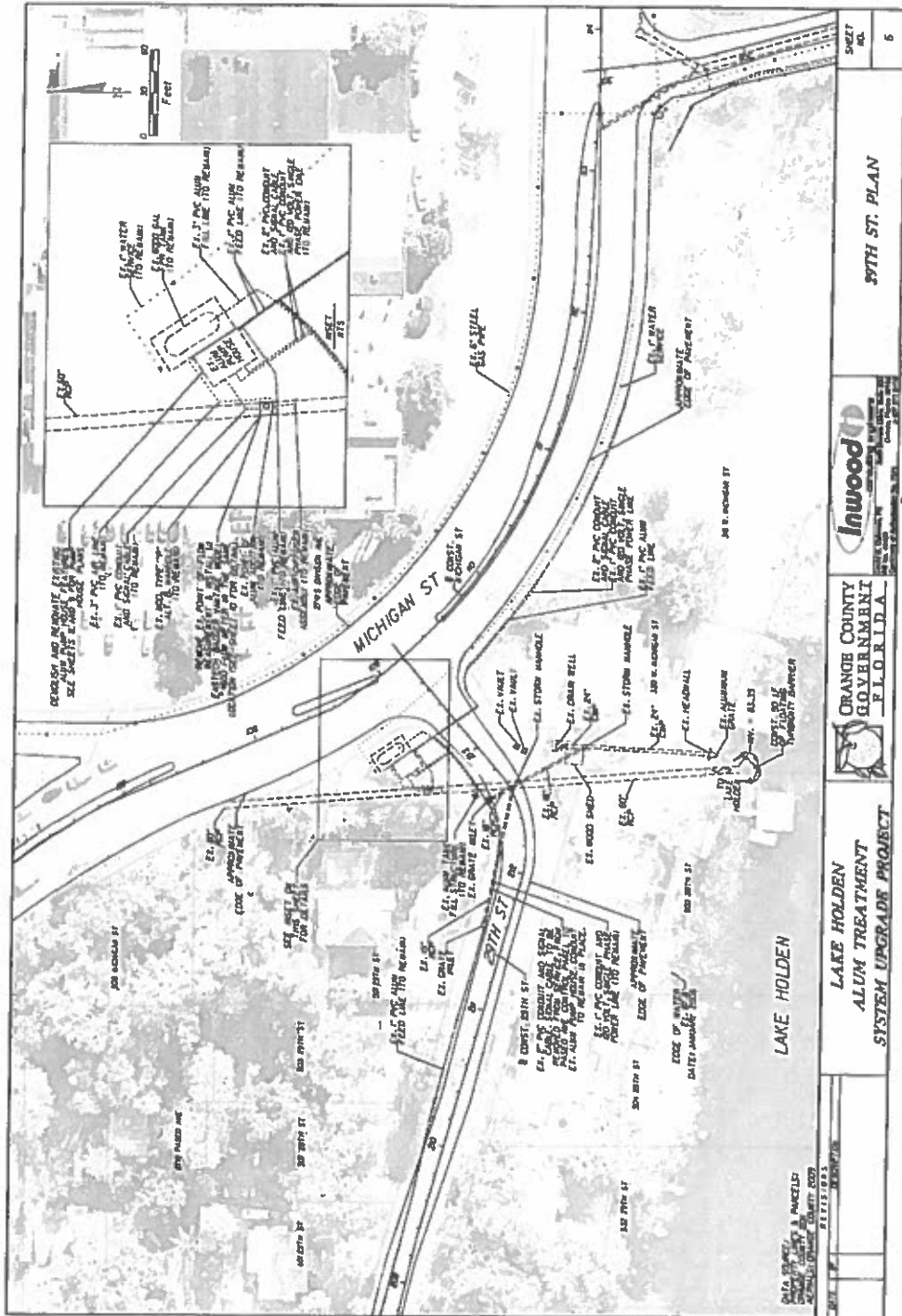
LEGAL  
 ALL RIGHTS RESERVED  
 THIS DOCUMENT IS THE PROPERTY OF INWOOD AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN PERMISSION OF INWOOD.

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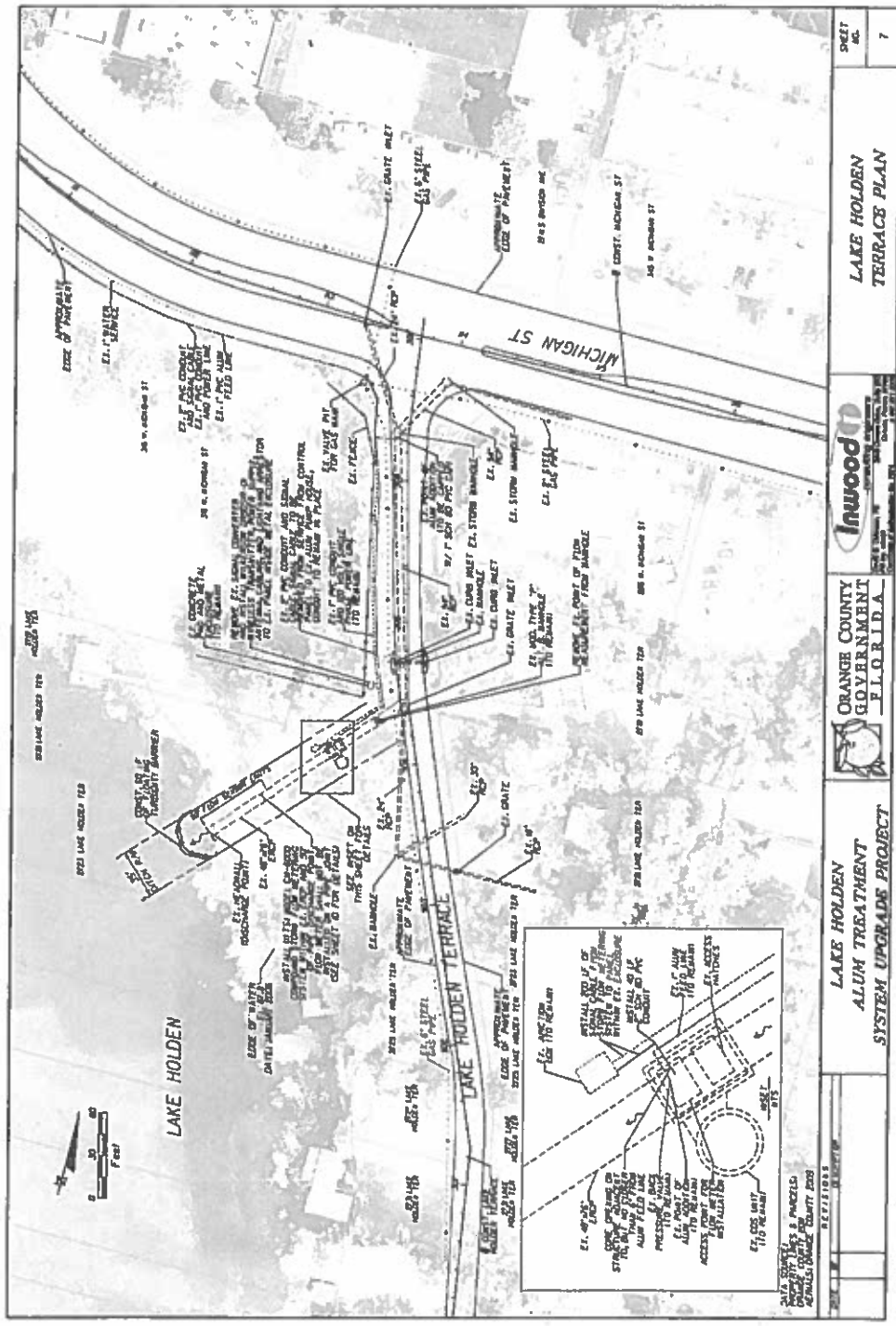
LEGAL  
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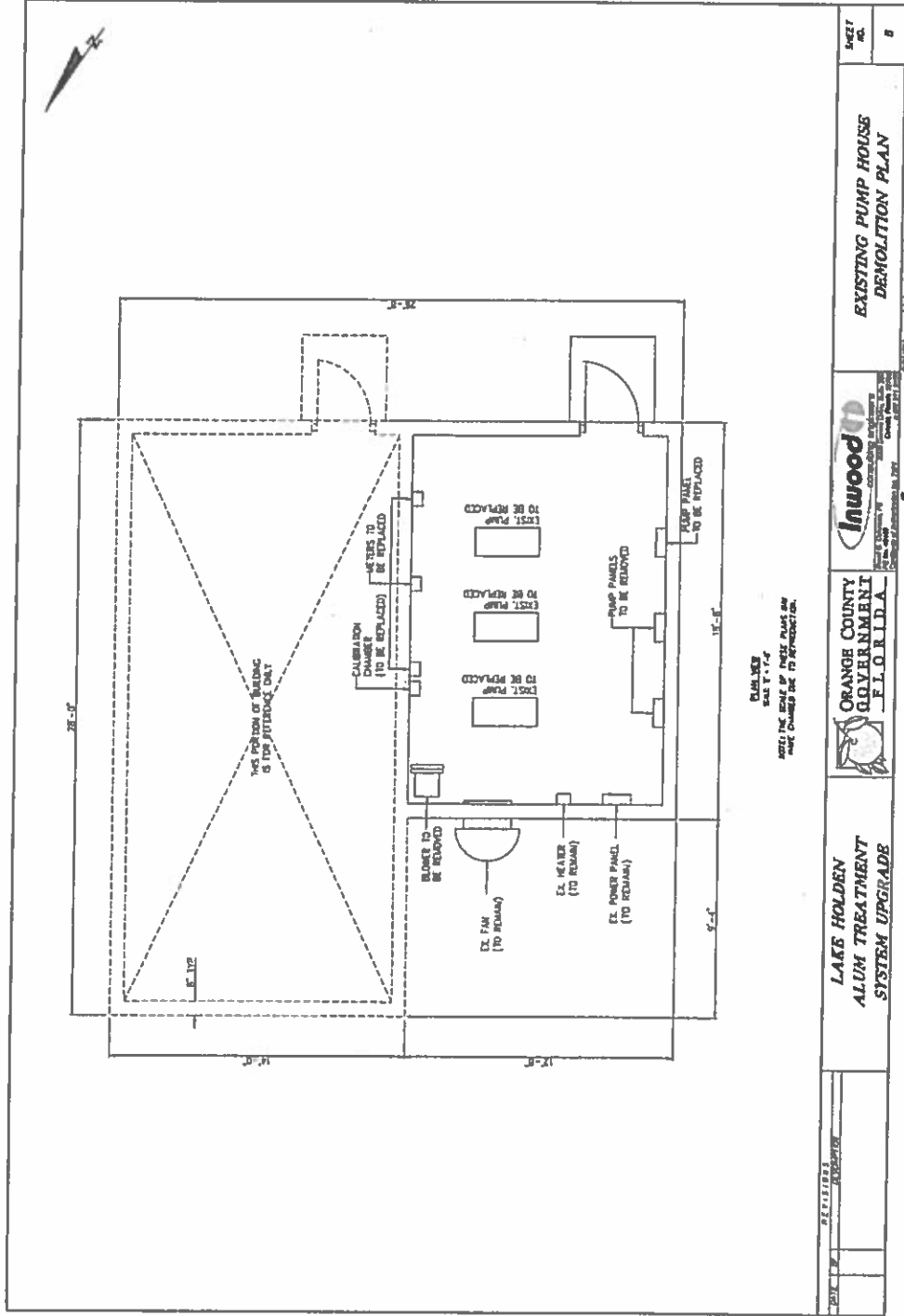




		<b>37TH ST. PLAN</b>		SHEET NO. 5
		<b>LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE PROJECT</b>		
DATA SOURCE: SURVEY DATA & PARCELS FROM ORANGE COUNTY 2007 DESIGN YEAR: 2008				

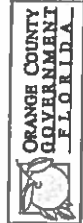


		 ORANGE COUNTY GOVERNMENT FLORIDA	LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE PROJECT	SHEET NO. 7
LAKE HOLDEN TERRACE PLAN				



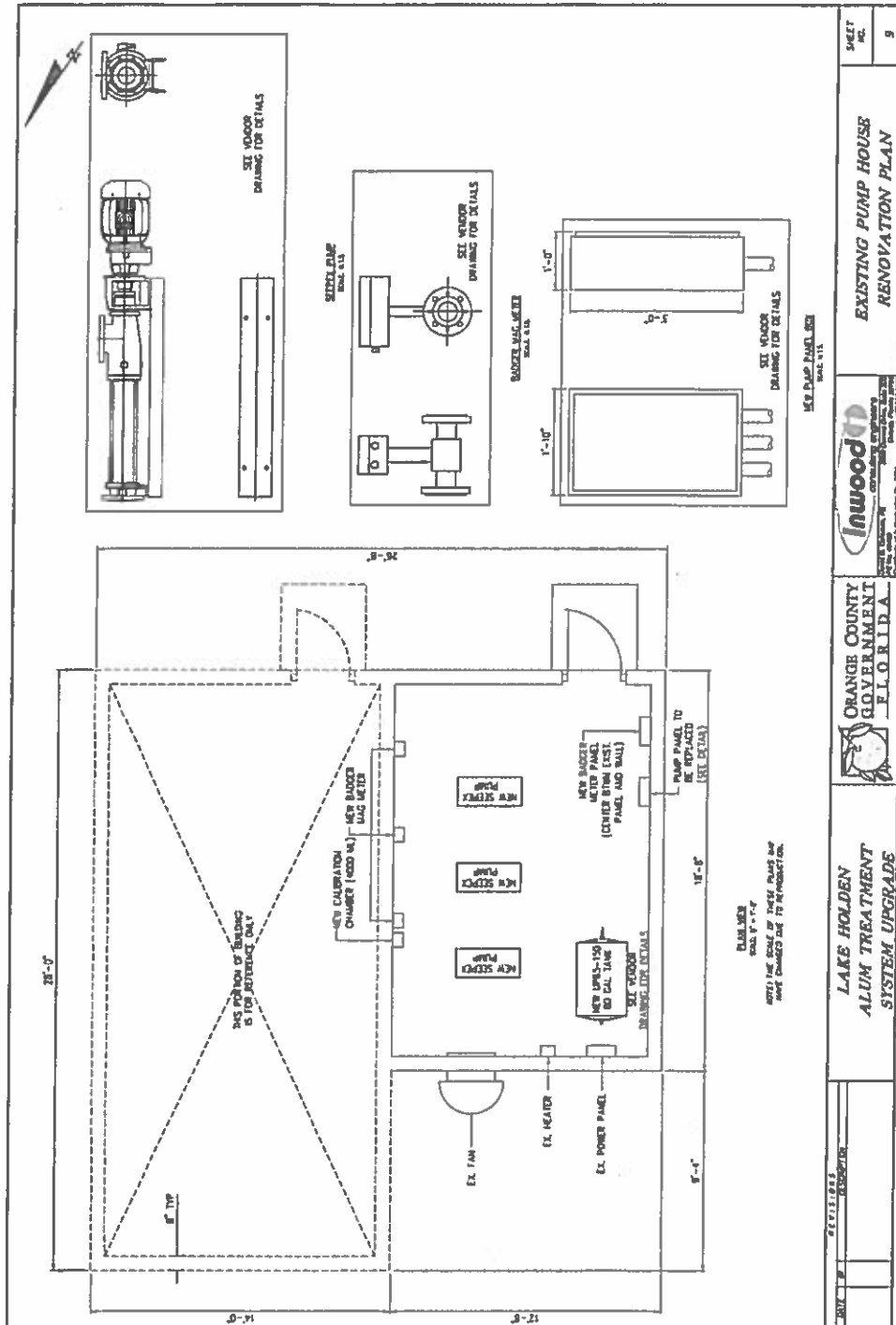
PLAN NO. 104  
 DATE: 11.14.14  
 NOTE: THE SCALE OF THESE PLANS ARE  
 MADE CHANGED DUE TO REDUCTION.

**LAKE HOLDEN  
 ALUM TREATMENT  
 SYSTEM UPGRADE**



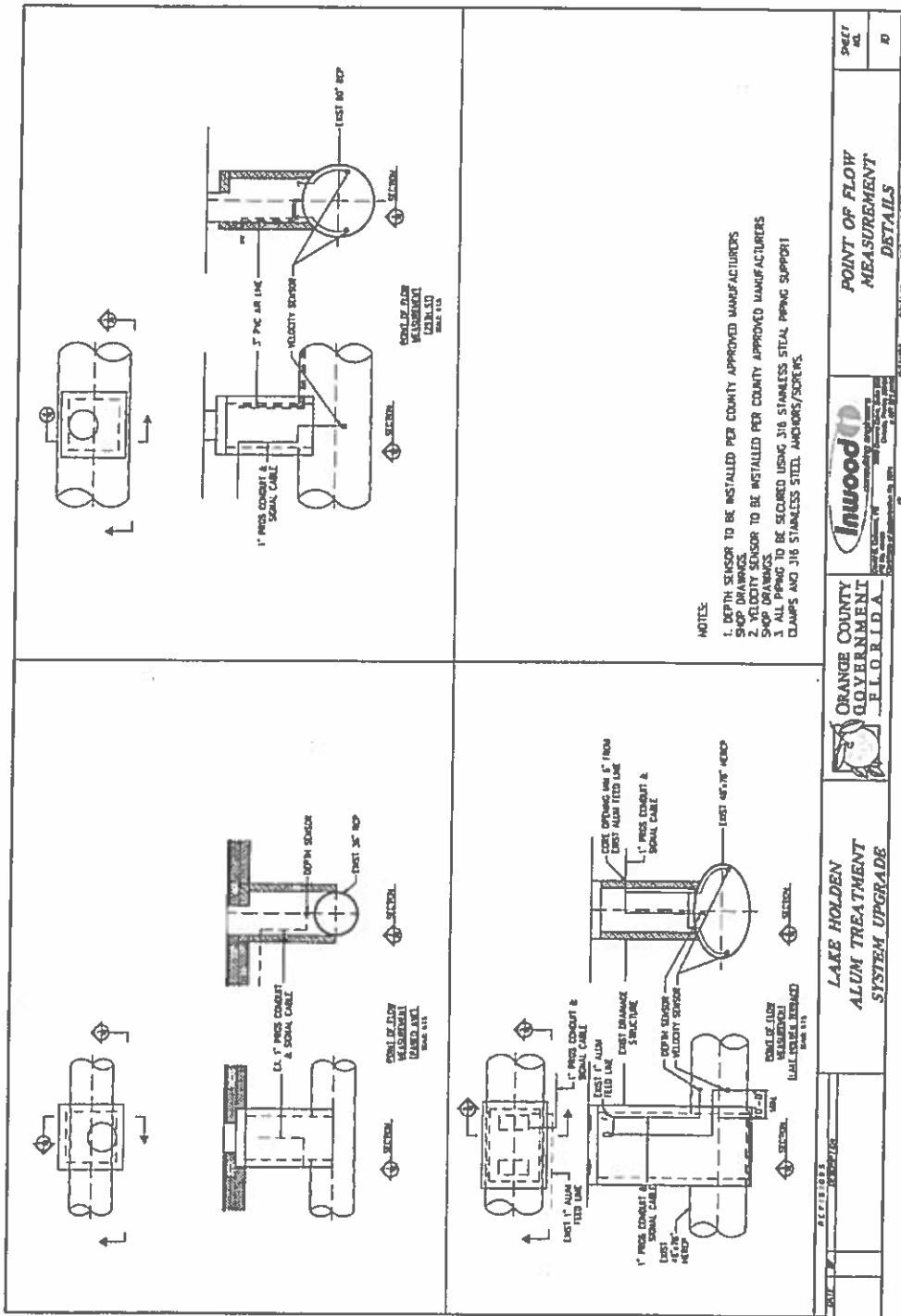
**EXISTING PUMP HOUSE  
 DEMOLITION PLAN**

Page 7  
 No.



DATE	DESCRIPTION	<p>ORANGE COUNTY GOVERNMENT FLORIDA</p>	<p>EXISTING PUMP HOUSE RENOVATION PLAN</p>	<p>SHEET NO. 9</p>





**NOTES:**

1. DEPTH SENSOR TO BE INSTALLED PER COUNTY APPROVED MANUFACTURERS SHOP DRAWINGS
2. VELOCITY SENSOR TO BE INSTALLED PER COUNTY APPROVED MANUFACTURERS SHOP DRAWINGS
3. ALL PIPING TO BE SECURED USING 3/16 STAINLESS STEEL PIPING SUPPORT CLAMPS AND 3/16 STAINLESS STEEL ANCHORS/SORBS

<p>ORANGE COUNTY GOVERNMENT FLORIDA</p>		<p>POINT OF FLOW MEASUREMENT DETAILS</p>	
<p>LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE</p>		<p>INWOOD</p>	
<p>DATE: 12/15/2023</p>	<p>PROJECT: LAKE HOLDEN ALUM TREATMENT SYSTEM UPGRADE</p>	<p>SHEET NO.</p>	<p>ID</p>