Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

NOTICE IS HEREWITH GIVEN TO ALL INTERESTED PARTIES THAT IF ANY PERSON SHOULD DECIDE TO APPEAL ANY DECISION MADE AT THE FORTHCOMING MEETING FOR WHICH THIS AGENDA CONSTITUTES NOTICE, SUCH PERSON WILL NEED A RECORD OF THE PROCEEDINGS CONDUCTED AT SUCH MEETING AND FOR SUCH PURPOSE MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDINGS IS MADE, WHICH RECORD INCLUDES TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED.

THE CITY OF PLANTATION WILL PROVIDE REASONABLE ACCOMODATIONS FOR DISABLED INDIVIDUALS REQUESTING SPECIAL ASSISTANCE IN ORDER TO ATTEND OR PARTICIPATE IN THIS MEETING; PROVIDED, HOWEVER, THAT A REQUEST FOR SUCH ASSISTANCE MUST BE MADE TO THE OFFICE OF THE CITY CLERK (954) 797-2237 AT LEAST THREE (3) CALENDAR DAYS PRIOR TO THE SCHEDULED MEETING.

1 **Roll Call**

2 **Opening Remarks/Invocation/Pledge of Allegiance - Councilmember Tingom**

3 **Approval of Minutes of Meeting - NONE**

Items Submitted By The Mayor

Consent Agenda

4 Request for approval and authorization to issue a purchase order to KCH Engineered Systems in the amount of $45,550.00 to 'Provide and Deliver two (2) Exhaust Blowers of 28,000 CFM at 1'' with a 20 HP Motor (WB No. 009-17)

Summary:

5 Request for authorization to execute/exercise the first of three one (1) year renewal options for "Gravity Sewer Main Rehabilitation" Term Contract ITB No. 041-14 with Layne Inliner, LLC. expiring of July 31, 2018.

Summary:

6 Request for authorization to execute/exercise the first of three one (1) year renewal options for "Gravity Sewer Lateral Rehabilitation" Term Contract ITB No. 042-14 with LMK Pipe Renewal, LLC. expiring of August 6, 2018.

Summary:

7 Request for approval and authorization to standardize the City's sports field lighting equipment to a single manufacturer, Musco Lighting LLC (Musco)

Summary:

8 Second and Final Public Hearing of an ordinance pertaining to the General Employees Retirement Plan

Summary:

Second and Final Public Hearing of an ordinance of the City of Plantation, Florida amending Chapter 18 of the Code of Ordinances of the City pertaining to the General Employees' Retirement System, establishing a mechanism for a change in beneficiaries for members; providing updates for consistency; providing a savings clause; and providing an effective date therefor.

9 Second and Final Public Hearing of an ordinance pertaining to the subject of Zoning.

Summary:

Second and Final Public Hearing of an Ordinance of the City of Plantation, Florida, pertaining to the subject of Zoning; amending Chapter 27-613.2, pertaining to the State Road 7 SPI-2 District of the City so as to amend the list of permitted, conditional and prohibited uses to allow paint stores - (retail sales only) as a permitted use within the subdistrict known as "Auto Mall", providing a savings clause; and providing an effective date therefor.

10 Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation’s Gateway Development District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation’s Gateway Development District.

11 Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation’s Midtown Development District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation’s Midtown Development District.

12 Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19,

2017 for the City of Plantation.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation.

13 Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Community Redevelopment District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Community Redevelopment District.

Administrative Items

14 Request to approve outdoor seating for Dunkin Donuts. Property located at 11 N. State Road 7 (PM17-0003)

Summary:

15 Code Lien Amnesty Program

Summary:

We recommend that City Council approve a resolution authorizing the implementation of a Code Lien Amnesty Program for a period of one year and six months, creating a mechanism to effectively deal with non-compliant properties and liens associated with them.

Legislative Items

16 Charter Amendments Recommended after the first November General Election

Summary:

Public Hearing and First Reading of an ordinance pertaining to the subject of City of Plantation's Charter; amending or clarifying provisions of the Charter relative to elections that are appropriate in view of prior referenda and new case law; amending provisions of the Charter to ensure that existing elected officials' terms of office expire when newly elected officials' terms of office commence in cases where increased time under State Law is utilized to certify November General Election results; providing clarifying Charter amendments relating to the computation of time; amending the City Charter to add provisions allowing candidates to pay fees and assessments after a qualifying period expires in the event such fees and assessments are not paid during the qualifying period as a result of a banking error; clarifying the Charter elections qualifying requirement for residency; making other miscellaneous amendments to the Charter and Code to implement the foregoing; providing a savings clause; and providing an effective date therefor.

QUASI-JUDICIAL PROCEEDINGS

THE CITY CLERK WILL SWEAR IN ALL WITNESSES BEFORE SPEAKING. PLEASE STATE YOUR NAME AND WHETHER YOU HAVE BEEN ADMINISTERED AN OATH. ANY SPEAKER MAY BE CROSS-EXAMINED. IF YOU REFUSE TO BE CROSS-EXAMINED, YOUR TESTIMONY MAY NOT BE CONSIDERED. CROSS-EXAMINATION SHALL BE CONDUCTED IN A COURTEOUS MANNER. THE MATERIAL IN THE CITY CLERK'S AGENDA PACKET WILL BE CONSIDERED AS PART OF THE RECORD. THE APPLICANT WILL MAKE THE FIRST PRESENTATION, FOLLOWED BY PRESENTATIONS FROM ANY INTERESTED PERSON. THE ELECTED OFFICIALS MAY SET REASONABLE TIME LIMITS FOR SPEAKERS. THE HEARING WILL THEN BE CLOSED AND THE MATTER DECIDED. THE ELECTED OFFICALS MAY DIRECT THE CITY ATTORNEY TO PREPARE A RESOLUTION REFLECTING THEIR DELIBERATIONS WHICH WILL BE CONSIDERED AT A FUTURE MEETING.

QUASI-JUDICIAL CONSENT AGENDA

ITEMS INCLUDED UNDER THE CONSENT AGENDA ARE SELF EXPLANATORY AND ARE NOT EXPECTED TO REQUIRE REVIEW OR DISCUSSION. ITEMS WILL BE ENACTED BY ONE MOTION. IF DISCUSSION IS DESIRED, THAT ITEM MAY BE REMOVED FROM THE CONSENT AGENDA AND CONSIDERED SEPARATELY.

Quasi-Judicial Consent Agenda

17 Resolution approving the Pool Parcel Site Data Record located at 11311 N.W. 4th Street (PP16-0029)

Summary:

A RESOLUTION APPROVING THE POOL PARCEL SITE DATA RECORD.

Quasi-Judicial Items

18 Request to approve sign special exception for First Watch Restaurant located at 7620 Peters Road (PP17-0010)

Summary:

Comments by Council Members

Public Requests of the Council Concerning Municipal Affairs

City of Plantation
City Council Chambers

Subject:

Request for approval and authorization to issue a purchase order to KCH Engineered Systems in the amount of $45,550.00 to 'Provide and Deliver two (2) Exhaust Blowers of 28,000 CFM at 1" with a 20 HP Motor (WB No. 009-17)

Item Description:

The main generator exhaust blowers at the Central Water Plant are in need of replacement. Original generator blowers are rusted and falling apart. Over the past 20+ years of service they have been patched and repaired several times and have reached the end of their useful life. Units are needed to assist in cooling the generator and room by drawing fresh air into the generator room while engine is running. New blowers will be FRP and stainless steel construction to resists the harsh environment and eliminate corrosion issues.

The Procurement Division secured informal competitive bids in accordance with section 2-226(b) of the City's Code for the above mentioned equipment. On March 14, 2017 ten (10) competitive bids were received. Copies on the ten (10) bids are attached for your review.

The numerical results are as follows:

Vendor	Base Bid
Pat's Pumps & Blowers, LLC	$93,000.00
Cool Breeze Air Conditioning	$99,914.00
KCH Engineered Systems	$45,550.00
Flanders, Inc.	$65,550.00
Technology International, Inc	$36,320.00 (option 1) $31,896.00 (option 2) $46,534.00 (option 3) $57,118.00 (option 4)
Condo Electric Industrial Supply, Inc	$49,020.00
Johnstone Supply/The Ware Group, LLC	$67,390.00

Procurement Division staff performed an evaluation of the bids to determine submittal responsiveness. After careful review of all information provided by the bidders, Procurement Division staff concluded that all bids submitted were responsive.

Utilities Department staff performed an evaluation of the lowest responsive bid to determine if the bid was

responsible. After careful consideration of all information, Utilities Department staff concluded Technology International, Inc bid (Option 1) was not responsible for the following reasons.

- Exhaust Blowers had a lead time (delivery time) of 16 to 18 weeks, the bid indicated equipment to be delivered within 14 weeks.

- Exhaust Blowers base was coated steel. This bid indicated that "no carbon steel or coated steel will be accepted"

- The Company indicated that they would not visit the site to take proper measurements. Addendum No. 2 stated "Prospective Bidders must come take measurements in order to submit proper build submittal.

- Company indicated that they were not going to provide an "inlet flex connector. The Bid indicated that an "Inlet Flex Connector" must be provided with the equipment.

Based on the above reason the Procurement staff provided the Utilities Department the second lowest, responsive bid to determine if the bid was responsible. After careful consideration of all information, Utilities Department staff concluded Technology International, Inc bid (Option 2) was not responsible for the following reasons.

- Company indicated that they were not going to provide an "inlet flex connector". The Bid indicated that an "Inlet Flex Connector" must be provided with the equipment.

- The Company indicated that they would not visit the site to take proper measurements. Addendum No. 2 stated "Prospective Bidders must come take measurements in order to submit proper build submittal.

Based the above reasons the Procurement staff provided the Utilities Department the third lowest, responsive bid to determine if the bid was responsible. After careful consideration of all information, Utilities Department staff concluded KCH Engineered Systems submitted the lowest responsible bid.

Based on the foregoing bid evaluation, Utilities and Procurement staff recommends approval to award a purchase order to KCH Engineered Systems for "(2) Exhaust Blowers of 28,000 CFM at 1" W.C. with a 20 HP Motor" in an amount of $45,550.00.

Funding:

440-0000-166-9001

Budgeted: $70,000.00

Amount:

$45,550.00

Finance Director/Budget Manager Recommendation:

The Utilities Operating and Maintenance Fund in FY2017 budgeted $70,000 for the purchase of 2 generator blowers for the Central Water Treatment Plant.

Prepared By:

Charles Spencer

ATTACHMENTS:

Description	Upload Date	Type
Original Bid Documents with addendums	4/19/2017	Backup Material

KCH Engineered Bid Submittal	4/19/2017	Backup Material
Technology Int. Bid Submittal	4/19/2017	Backup Material
Pats Pumps and Blowers Bid	4/19/2017	Backup Material
Cool Breeze Bid Submittal	4/19/2017	Backup Material
Flanders Inc Bid Submittal	4/19/2017	Backup Material
Johnstone Supply Bid Submittal	4/19/2017	Backup Material
Condo Electric Bid Submittal	4/19/2017	Backup Material

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

DATE: February 14, 2017

Written Bid No.: WB No. 009-17

WRTTEN BID
(Informal Competitive Bid)

ALL INTERESTED PARTIES:

The City of Plantation, Florida, hereinafter referred to as CITY, will receive Bids hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317, Email: ESpencer@Plantation.org, via Fax: (954) 797-2649, or Demand Star for:

Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

Bids must be received by methods mention above, no later than **March 14, 2017** local time on 11:00am. Any bids received after 11:00am local time on said date will not be accepted under any circumstances. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

All questions should be submitted by email to espencer@plantation.org.

The CITY reserves the right to reject any or all bids, to re-advertise for bids or take any other such actions that may be deemed to be in the best interests of the CITY

Charles Spencer Jr.
Procurement Administrator

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 009-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: _____ Date: _____

Print/Type Name: _____

Print/Type Company Name: _____

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:
Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.
This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.		
20 HORSE POWER PREMIUM EFFICIENCY MOTOR		
TRICO AUTO GREASERS		
ACCESS DOOR		
HOUSING DRAIN		
316 STAINLESS STEEL SHAFT		
316 STAINLESS STEEL WHEEL		
316 STAINLESS STEEL SUPPORT BASE		
INBOARD AND OUT BOARD SHAFT BEARINGS		
V-BELT DRIVE		
INLET FLEX CONNECTOR		
OULTER SCREEN		

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.		2	$	$
TOTAL			$	$

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME _____

PHONE NUMBER _____

MAILING ADDRESS _____

CITY-STATE –ZIP CODE _____

FAX NUMBER _____

E-MAIL ADDRESS _____

PRINT NAME (Contact) _____

SIGNATURE _____

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

By:_____

_____

Name:_____

Name:_____

Title:_____

_____

Name:_____

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared _____, _____, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this _____ day of _____, 20___.

Notary Public, State of _____

Sign:_____
Print:_____
My Commission Expires:_____

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: _____

By (sign):_____

Print Name: _____

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared _____, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this _____ day of _____, 20___.

Notary Public, State of _____

Sign:_____
Print:_____
My Commission Expires:_____

[29]9001-14001

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: _____

Signed: _____

Printed Name of Signor: _____

Title of Signor: _____

Name of Firm: _____

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

(g)

The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 1

WB No. 009-17

Provide and Deliver Two (2) Exhaust Blowers Capable of 28,000 CFM at 1" W.C. with a 20 HP Motor

City of Plantation

DATE OF ADDENDUM: February 17, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: Is this an inline Fan or Utility FAN?

Response: This is NOT a Fan it is a Centrifugal Blower

Question: Can you please provide application?

Response: The Blower is used to remove air from the generator room to assist in cooling.

Question: Can you give the range of or the required voltage?

Response: The requited voltage is 480 volt.

Question: Can you provide an existing model number that we are matching or any data regarding the application and your requirements?

Response: There is no model number available, old unit is a Penn Ventilator Company Dynamo centrifugal blower. Site visit highly recommended for proper submittals to be made for City's approval. Vendors must measure and see blower configuration to properly bid and make proper submittals (See attached picture).

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

Bids **must** be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: ESpencer@Plantation.org, via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

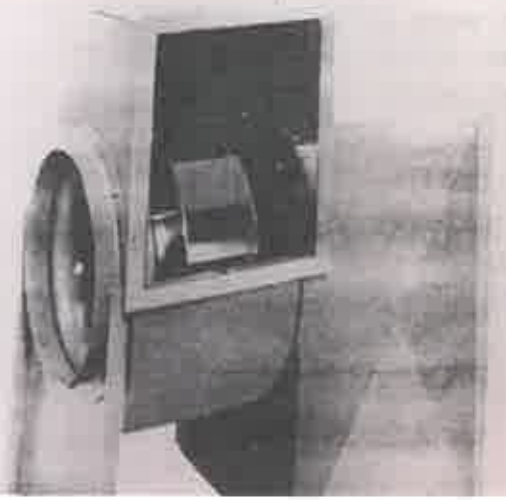
Please acknowledge receipt of this Addendum No. 1 by returning it and/or acknowledging it in your bid.

COMPANY NAME: _____

PENN VENTILATOR CO., INC.
THE FAN COMPANY FOR THE 90'S AND BEYOND
RED LION & GANTRY RDS., PO BOX 52844, PHILA., PA 19115-7844
PHONE: (215) 464-8900 FAX: (215) 677-1647
69 JACQUES CARTIER N., PO BOX 28, FARNHAM, QUEBEC, CANADA J2N 2R4
PHONE: (514) 293-5317 FAX: (514) 293-6540

PARTS LIST, INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

DYNAMO CENTRIFUGAL BLOWER CLASS 1, S.W.S.I.



INSTALLATION

The ideal surface for mounting the Dynamo is on a level rein-
forced concrete floor. Determine the minimum safe floor load
ing requirement for proper support by multiplying the tota
weight of the unit by two. Flex pads, rubber-in-shear and sprin
type isolators are available to reduce the transmission of vibr
tion to the surrounding areas. See suggested ductwork install
tions on the next page.

OPERATION

Inspect the installed unit carefully before start-up. Make s
all motor bearings are properly lubricated. Tighten all bolts
curely. Rotate blower wheels by hand to insure free movem

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 2

WB No. 009-17

Provide and deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 Ho Motor

City of Plantation

DATE OF ADDENDUM: February 27, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: What is the HP required?

Response: Blower has to be at least 20 HP (Currently have 20Hp Blower)

Question: Can you provide the dimensions of the blower you are requesting?

Response: Prospective Bidders must come take measurements in order to submit proper build submittal. Point of contact for site visits is below:

Brett Miller 954-326-7634
City of Plantation Water /Waste Water Plant Maintenance Superintendent

Question: Can you give the range of or the required voltage?

Response: The requited voltage is 480 volt.

Question: Can you provide a picture of the current blower that needs to be replaced?

Response: (See attached picture)

Bids **must** be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: ESpencer@Plantation.org, via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 2 by returning it and/or acknowledging it in your bid.

COMPANY NAME: _____

KOMATSU

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 009-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: Dan Ching Date: 3/6/17

Print/Type Name: Dan Ching

Print/Type Company Name: KCH Engineered Systems

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

DATE: February 14, 2017

Written Bid No.: WB No. 009-17

WRITTEN BID
(Informal Competitive Bid)

ALL INTERESTED PARTIES:

The City of Plantation, Florida, hereinafter referred to as CITY, will receive Bids hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317, Email: ESpencer@Plantation.org, via Fax: (954) 797-2649, or Demand Star for:

Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

Bids must be received by methods mention above, no later than March 14, 2017 local time on 11:00am. Any bids received after 11:00am local time on said date will not be accepted under any circumstances. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

All questions should be submitted by email to espencer@plantation.org.

The CITY reserves the right to reject any or all bids, to re-advertise for bids or take any other such actions that may be deemed to be in the best interests of the CITY

Charles Spencer Jr.
Procurement Administrator

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:
Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.
This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	X	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	X	
TRICO AUTO GREASERS	X	
ACCESS DOOR	X	
HOUSING DRAIN	X	
316 STAINLESS STEEL SHAFT	X	
316 STAINLESS STEEL WHEEL	X	
316 STAINLESS STEEL SUPPORT BASE	X	
INBOARD AND OUT BOARD SHAFT BEARINGS	X	
V-BELT DRIVE	X	
INLET FLEX CONNECTOR	X	
OULTER SCREEN	X	

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.	KCH Engineered Systems	2	$ 22,775.00	$ 45,550.00
TOTAL			$ 22,775.00	$ 45,550.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME	KCH Engineered Systems
PHONE NUMBER	828-748-7722
MAILING ADDRESS	144 Industrial Drive
CITY-STATE –ZIP CODE	Forest City, NC. 28043
FAX NUMBER	828-245-143
E-MAIL ADDRESS	dching@kchservices.com
PRINT NAME (Contact)	Dan Ching
SIGNATURE	Dan Ching

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Richard McBrayer

Name: Richard McBrayer

Name: _____

By: Dan Ching

Name: Dan Ching

Title: Sales Manager

STATE OF North Carolina
COUNTY OF Rutherford)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Dan Chiny, _____, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 7th day of March, 2017.

RENEE MARLOR
NOTARY PUBLIC
RUTHERFORD COUNTY
NORTH CAROLINA

Notary Public, State of NC

Sign: Renee Marlor
Print: Renee Marlor
My Commission Expires: March 27, 2019

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: KCH Engineered Systems

By (sign): Dan Ching

Print Name: Dan Ching

STATE OF North Carolina)
COUNTY OF Rutherford)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Dan Ching, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 7th day of March, 2017.

RENEE MARLOR
NOTARY PUBLIC
RUTHERFORD COUNTY
NORTH CAROLINA

Notary Public, State of NC

Sign: Renee Marlor
Print: Renee Marlor
My Commission Expires: March 27, 2019

(29)001-14001

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 609-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: _____ Date: 03/14/17

Print/Type Name: Michael J. Rosenberg, Business & Operations Manager

Print/Type Company Name: Technology International, Inc.

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

DATE: February 14, 2017

Written Bid No.: WB No. 009-17

WRTTEN BID
(Informal Competitive Bid)

ALL INTERESTED PARTIES:

The City of Plantation, Florida, hereinafter referred to as CITY, will receive Bids hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317, Email: ESpencer@Plantation.org, via Fax: (954) 797-2649, or Demand Star for:

Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

Bids must be received by methods mention above, no later than March 14, 2017 local time on 11:00am. Any bids received after 11:00am local time on said date will not be accepted under any circumstances. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

All questions should be submitted by email to espencer@plantation.org.

The CITY reserves the right to reject any or all bids, to re-advertise for bids or take any other such actions that may be deemed to be in the best interests of the CITY

Charles Spencer Jr.
Procurement Administrator

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:
Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.
This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

***We are offering with four (4) proposal options. Please see attached our proposal.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.		
20 HORSE POWER PREMIUM EFFICIENCY MOTOR		
TRICO AUTO GREASERS		
ACCESS DOOR		
HOUSING DRAIN		
316 STAINLESS STEEL SHAFT		
316 STAINLESS STEEL WHEEL		
316 STAINLESS STEEL SUPPORT BASE		
INBOARD AND OUT BOARD SHAFT BEARINGS		
V-BELT DRIVE		
INLET FLEX CONNECTOR		
OULTER SCREEN		

TII Equipment Proposal TII/FL/0317/5867 Attached

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.	**Manufacturer** Texel Selkow Fan Equipment Co. Canadian Blower Canadian Blower	2	$ Option.1: $18,160.00 Option.2: $15,948.00 Option.3: $23,267.00 Option.4: $28,559.00	$ $36,320.00 $31,896.00 $46,534.00 $57,118.00
TOTAL			$	Option.1: $36,320.00 Option.2: $31,896.00 Option.3: $46,534.00 Option.4: $57,118.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME Technology International, Inc.

PHONE NUMBER (407) 359-2373

MAILING ADDRESS 1349 South International Pkwy, Suite 2411

CITY-STATE –ZIP CODE Lake Mary, Florida 32746

FAX NUMBER (407) 359-2372

E-MAIL ADDRESS tii@tii-usa.com

PRINT NAME (Contact) Michael J. Rosenberg Business & Operations Manager

SIGNATURE

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Brad Hubbard
Name: Brad Hubbard

M. Rif Habib
Name: Rifat Habib

By: Michael J Rosenberg
Name: Michael J Rosenberg
Title: Business & Operations Manager

STATE OF Florida)
COUNTY OF Seminole)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Michael J. Rosenberg, known to be the persons described in or who has produced FL DL as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 14 day of March, 2017.

M. SHAJI HABIB
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF168782
Expires 10/15/2018

Notary Public, State of Florida

Sign: M Shaji Habib
Print: M. Shaji Habib
My Commission Expires: 10/15/18

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: Technology International, Inc.

By (sign): Michael J. Rosenberg

Print Name: Michael J. Rosenberg Business & Operations Manager

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Michael J. Rosenberg, known to be the persons described in or who has produced TII as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 14 day of March, 20 17.

M. SHAJI HABIB
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF168782
Expires 10/15/2018

Notary Public, State of FLORIDA
Sign: M. Shaji Habib
Print: M. Shaji Habib
My Commission Expires: 10/15/18

[29]9001-14001

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: _____

Signed: _____

Printed Name of Signor: _____

Title of Signor: _____

Name of Firm: _____

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-326(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

(g)

The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

Technology International, Inc.
1349 South International Pkwy, Suite 2411
Lake Mary, FL 32746
Tel: (407) 359-2373
Fax: (407) 359-2372
E-mail: tii@tii-usa.com
Website: www.tii-usa.com

Equipment Proposals

Title: Two (2) Exhaust Blowers

Bid #: WB No. 009-17

Attention: The City of Plantation, Florida
City Hall, 400
NW 73 Avenues,
Plantation, Florida 33317
Email: ESpencer@Plantation.org

Our Ref: **TII/FL/0317/5867**

Date: 03/14/2017

In response to your quote request for Two (2) Exhaust Blowers, Technology International, Inc. is pleased to submit the following four (04) proposal options for consideration:

Option	Manufacturer/Brand
1	Texel Seikow, Japan
2	Fan Equipment Co., North Las Vegas, NV
3	Canadian Blower, Lancaster, NY
4	Canadian Blower, Lancaster, NY

Option no.1

ITEM NO.	QTY	DESCRIPTION/ MODEL NO.	UNIT PRICE	EXTD. PRICE
1	2	Manufacturer: Texel Seikow, Japan Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.	$18,160.00	$36,320.00
See attached equipment sheets				
Total price for all above.....$36,320.00				

Exclusions: Any item not included in our offer.

Delivery:

- Submittal data, if applicable, will be provided for approval after receipt of order
- Estimated delivery is **16-18 WEEKS** after receipt of order from customer and approved submittal
- All delivery dates quoted are tentative, subject to factory production schedule at time of order

Freight: Freight included to Plantation, FL 33324

Payment Terms: 1/2 % 10 days; NET 30

Validity of Quote: This quotation is valid for 60 days from date of quote.

JQA-2348
JQA-EM4095

Seikow Chemical Engineering & Machinery, Ltd. is an ISO 9001 certified company, operates Quality Management System on Pump, Fan and Environmental Equipment Products and accredited by ISO 14001 Environmental Management System.

SEIKOW CHEMICAL ENGINEERING & MACHINERY, LTD.

Head Office 1-31-4-chome Mizudo-cho, Amagasaki, Hyogo Pref. 661-0026 Japan
TEL.: Osaka(06)6438-0841 FAX.: (06)6438-3001

Export Division 14-10 5-chome Nishinakajima, Yodogawa-ku, Osaka City 532-0011
(Sanity Shin Osaka Front Bldg.)
TEL.: Osaka(06)7668-3500 FAX.: (06)7668-3431
URL http://www.seikow.co.jp E-mail : texel@oak.ocn.ne.jp

Catalogue No.
CF-59-FAN-E
1403 A
99.03.30 2000

●The content of this catalogue is subject to change without notice.

TEXEL®

CORROSION RESISTANT FRP FANS/BLOWERS

GENERAL CATALOGUE

JQA-2348
JQA-EM4095

CORROSION RESISTANT FRP FANS/BLOWERS GENERAL CATALOGUE
SEIKOW CHEMICAL ENGINEERING & MACHINERY, LTD.

SEIKOW CHEMICAL ENGINEERING & MACHINERY, LTD.

TEXEL®

CORROSION RESISTANT FRP FANS/BLOWERS

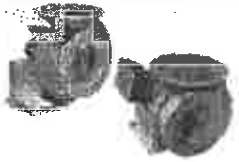
Exceptionally Corrosion-resistant, high-performing and highly functional, TEXEL fans/blowers are the dependable choice for exhaust and ventilation applications in various factories, labs universities, and sewage/raw sewage treatment plants. Choose from our wide selection of corrosion resistant fans/blowers for any application.

TEXEL FANS/BLOWERS LINE-UP

MODEL CES

Features ——— 3
Capacity Range ——— 15
Dimensions ——— 46
Structure ——— 62

MODEL CES-D/V



Features ——— 3
Capacity Range ——— 17
Dimensions ——— 47
Structure ——— 62

MODEL FTF

Features ——— 4
Capacity Range ——— 19
Dimensions ——— 49
Structure ——— 63

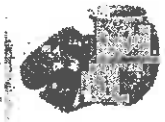
MODEL FTF-MD/MC

Features ——— 4
Capacity Range ——— 28
Dimensions ——— 53
Structure ——— 65

MODEL NSF

Features ——— 5
Capacity Range ——— 31
Dimensions ——— 56
Structure ——— 66

MODEL CTF



Features ——— 5
Capacity Range ——— 19
Dimensions ——— 57
Structure ——— 66

MODEL FTE

Features ——— 6
Capacity Range ——— 33
Dimensions ——— 49
Structure ——— 63

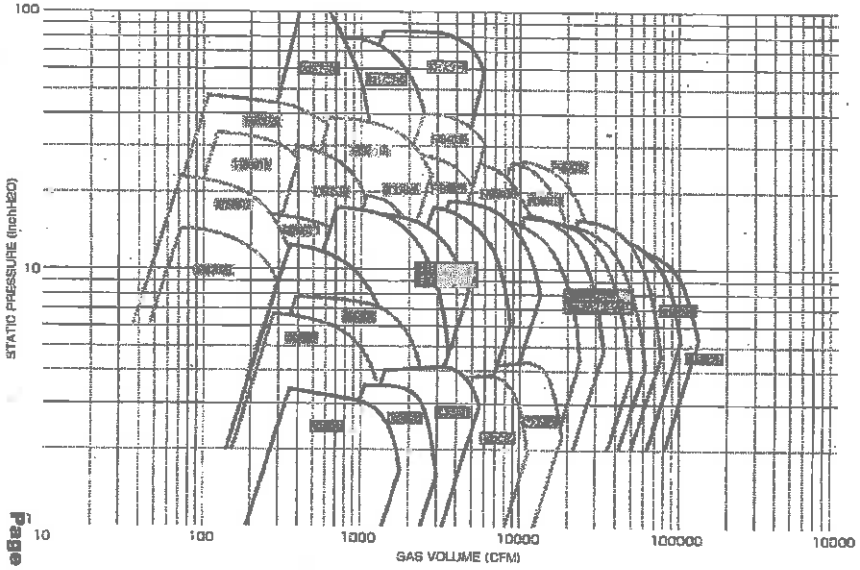
MODEL FTB

Features ——— 7
Capacity Range ——— 37
Dimensions ——— 58
Structure ——— 67

MODEL FTW

Features ——— 8
Capacity Range ——— 45
Dimensions ——— 61
Structure ——— 68

TEXEL FANS/BLOWERS CAPACITY RANGE



❶

STANDARD SPECIFICATIONS

Model		CES	CES D	CES V	FTF	FTF MD	FTF MC	NSF	CTF	FTE	FTB	FTW
Gas Temperature		14~122°F	14~122°F		14~176°F	14~176°F		14~122°F	14~122°F	14~176°F	14~176°F	14~176°F
Construction	Impeller	Sirocco	Sirocco		Turbo	Turbo		Sirocco	Turbo	Turbo	Turbo	Turbo
	Sealing	Free Gland	Free Gland		Seal Plate	Seal Plate		Free Gland	Free Gland	Seal Plate	Seal Plate	Seal Plate
Material	Impeller	FRPP	FRPP		FRP	FRP		FRP	FRP	FRP	FRP	FRP
	Casing	FRPP	FRPP		FRP	FRP		FRP	FRPP	FRP	FRP	FRP
	Shaft	Carbon steel	Carbon steel		Carbon steel	Carbon steel		Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
Standard Color	Casing	MUNSELL 2.5B5/3										
	Belt-Guard											
	Shaft-Guard											
	Support base	Melted zinc plating color							Melted zinc plating color			
	Motor	Maker's standard color										
Standard Accessories		[illegible]	●Shaft-Guard···1pc. ●Anchor Bolt···1set		[illegible]	●Anchor Bolt···1set		●V-Pulley···1set ●Shaft-Guard···1pc.	●V-Belt···1set ●Belt-Guard···1pc. ●Anchor Bolt···1set			●Anchor Bolt 1set

Information Necessary for Inquiries and Orders

1. Gas Volume — CFM, m^3/min
2. Static Pressure — IPa, mmH$_2$O
3. Handling Gas — Concentration (% ppm), Specific Weight (g/m^3), Operating Temperature (°F), (°C)
4. Discharge and Rotational Direction
5. Power Source — Voltage, Frequency, Phase

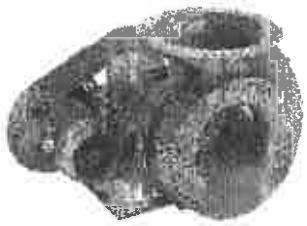
❷

CES·CES-D FEATURES

FRPP SIROCCO FAN

MODEL CES

JAPAN PT. No. [illegible]
CHINA PT. No. [illegible]
TAIWAN PT. No. [illegible]



The conventional model was completely redesigned given birth to the model CES Compact Sirocco Fan made of an injected FRPP mold with standardized central discharge. It has the same capabilities as the conventional models and its rotating discharge direction was reduced by half making selection simple. Also, its impeller and casing are both made of an injected FRPP mold for enhanced recyclability.

• Standardized central discharge

Conventional models featured 6 rotational discharge directions. However, this fan's right rotation only central discharge cuts the number of rotational directions to 3 types. This significantly reduces the complexity of choosing a rotational direction and simplifies duct piping.

• Enhanced maintainability

Conventional compact sirocco fans were made with a casing divided into 2 parts. This required the removal of the suction and discharge ducts before being able to remove the impeller. However, by incorporating an easy-to-remove suction cone in the design, only the suction duct needs removal before the impeller can be taken off. Inner-casing inspection is also made easy.

• Excellent corrosion resistance

Its casing and impeller have excellent chemical resistance thanks to our standardized FRPP injection mold construction that boasts high dimensional accuracy. Also, its effective ribbed and reinforced design gives it superior strength while keeping it lightweight. We used materials that not only offer great corrosion resistance and maintainability, but also 100% recyclability.

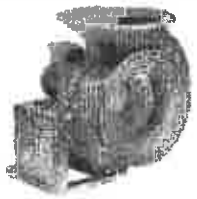
• A variety of drive systems

Choose either a belt drive or direct action electric motor drive depending on the application. You can also choose from two types of the direct action electric motor drives, a universal electric motor (D-type) or an electric motor with built-in inverter (V-type). Because the only rotating parts in direct action electric motor drives are the motor itself and the impeller, there is no V-belt, shaft or any other mechanical part. This significantly reduces maintenance requirements and labor costs incurred during equipment inspections.
In addition, the electric motor with built-in inverter is direct action however, like a belt driven fan, the required airflow and static pressure can be universally set.

JAPAN PT. No. [illegible] CHINA PT. No. [illegible] TAIWAN PT. No. [illegible]

MODEL CES-D

WITH UNIVERSAL MOTOR



MODEL CES-V

WITH MOTOR FEATURING BUILT-IN INVERTER

• Standardized central discharge

These models provide central discharge in only one direction (clockwise). Moreover, the number of rotating discharge directions is limited to three, compared with the six available with conventional models. This eliminates the troublesome selection of discharge direction and simplifies duct arrangement.

• Ease of maintenance

A conventional small sirocco fan has a two-block casing. Removal of the impeller requires removal of the suction duct and discharge duct. The new sirocco fan includes an easily removable suction cone that allows the impeller to be easily removed simply by removing the suction side duct. This simplifies checking of the casing interior.

• Excellent corrosion resistance

The standard casing and impeller are manufactured with injection-molded FRPP featuring excellent chemical resistance and high dimensional accuracy. In addition, the effective rib-and-turnback design ensures low weight and high strength. All materials have been selected for ease of maintenance and recycling as well as corrosion resistance.

• Greatly reduced maintenance

Direct-drive models feature universal motors (D type) or motors with built-in inverters (V type). The direct-drive type has no V-belt and no bearings: the only rotating parts are the motor and impeller. No maintenance is required for mechanical parts such as belts and bearings which significantly reduces the labor required for facility monitoring. The use of a motor with a built-in inverter allows for easy setting of the required airflow and static pressure, similar to the case of a belt-driven fan.

Typical applications:

- As a corrosive gas fan/blower in a chemical or pharmaceutical plant
- As a draft chamber fan/blower in a chemical laboratory treating various gases
- As a fan/blower in a biotechnology, research laboratory or experimental semiconductor laboratory
- As fan/blower in kitchen facilities
- As an odorous gas fan/blower in a sewage treatment facility
- As a fan/blower to eliminate coastal salt pollution

FTF·FTF-MD/MC FEATURES

FRP TURBO FAN

MODEL FTF

Model FTF FRP Turbo Fan has been recognized as breakthrough fan capable of long-term continuous operation, leading the industry in employing the oil lubricated bearing system.
Application of new techniques to strength analysis and research for optimal impeller/casing design and flow drove the development of this ideal fan that delivers vastly improved performance – and also energy savings, helping reduce CO_2 emissions.

• Highly improved efficiency

Efficiency has highly improved upon the former by the maximum ten percent at a total pressure. Also, sound level has been reduced by one to five decibel Amphere.

• The extension of capacity

Extended capacity range. A 30%(approx.) increase in static pressures and capacities gives the series extended application range, meaning cost saving where smaller models suffice.
It will make your initial cost reduce. The values of power for capacity range chart are calculated with the allowance of five percent for shaft brake horse power.

• FRP molded casing

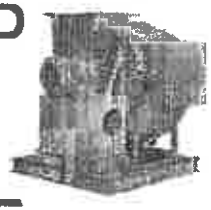
Easy and economical maintenance work has been realized by employing FRP molded casing, excellent in corrosion resistance and endurance. Employing our own FRP-molding-technique has attained smooth-beautiful finished casing and quality preventing adherence of scale and dirt.

• Quality maintenance

Equipping open-close inspection window at the upper part of belt-guard facilitates interior check. Easy maintenance has attained by equipping the inspection window for model FTF-303 & FTF-403 casing.

MODEL FTF-MD

MOTOR DIRECT DRIVE



MODEL FTF-MC

COUPLING-DRIVE

• Inverter-compatible

The inverter is provided to cover a wide range of revolutions and capacities. It provides the same coverage as a belt-driven type. The inverter provides superb operational control and significant energy efficiency. The model is designed so that operation can continue with a commercial power source if the inverter fails.

• Greatly reduced maintenance requirements

The design eliminates burdensome monitoring, replacement and tension adjustments and the like associated with V-belts. The only consumable part is the motor bearing, which provides a longer service life because the impeller mass represents the only radial load. The long life reduces running costs.

• Ease of maintenance

The casing is provided with a large opening offering easier access for casing inspection and impeller cleaning.

• Back pullout system (Model FTF-MD)

Models FTF503–803 are provided with a back pullout system that enables removal of the impeller together with the motor, suction duct, and discharge duct. This system facilitates maintenance and rapid parts replacement. The impeller can also be removed from the suction side.

• Space-saving design (Model FTF-MD)

Elimination of the space required for the belt and belt-drive system results in an even smaller footprint.

• Choose an electric motor to achieve targeted performance.

For Models FTF503–803, either MD or MC types, you can select a specific model of motor from a specific manufacturer. Choose either a general-purpose or universal motor.

Typical applications:

- As a corrosive gas fan/blower in a chemical or pharmaceutical plant
- As a corrosive gas fan/blower for emissions treatment equipment and gas absorbing towers
- As a corrosive gas fan/blower in a sewage plant and a human waste treatment plant
- As a corrosive gas fan/blower in a semiconductor fabrication plant
- As a fan/blower to eliminate coastal salt pollution

NSF/CTF FEATURES

FRP SIROCCO FAN

MODEL NSF

Model NSF Sirocco Fan is made of the thick FRP sheets offering great safe and mechanical strength. The indented round shape of the suction and discharge opening facilitates connection of the fan to a duct.

• Round suction and discharge flange of identical size

The adoption of round flanges of identical dimension on both the suction and discharge openings has greatly enhanced piping in comparison with the conventional square flanges. Moreover, easy sleeve piping is now possible due to the fact that a duct flange can be employed as a companion flange on fans with a flange size of 500A or less.

• Excellent corrosion resistance

• Casing
FRP material having outstanding chemical resistance has been employed. Besides being rigid against external impact, it has a higher working temperature range than PVC, and has the added advantage of being lighter than metal casing.
• Impeller
While, integral models have been employed in the fabrication of the impellers of NSF-302~402 models which have superb chemical resistance and enhanced mechanical strength.

• Wider capacity range

In comparison with our conventional models, higher static pressure and extended gas volume range achieved with the new model NSF make them more economical.

MEDIUM-PRESSURE FRPP CENTRAL DISCHARGE TURBOFAN

MODEL CTF

Model CTF has an excellent reputation for outstanding value and energy efficiency in medium-pressure-range (1.0~2.0 kPa) applications. This new model features an FRPP central discharge casing offering corrosion resistance and high mechanical strength. As a result, it is easier to operate and maintain.

• Turbofan with standardized central discharge

The use of clockwise rotation alone for central discharge reduces the number of rotating discharge directions to three compared with the six directions available with conventional models. This eliminates troublesome selection of the discharge direction. What's more, both the suction and discharge flanges are round and of the same size, simplifying duct alignment. The layout of the fan is similar to that of elbow piping.

• Ease of maintenance

An easily removable suction cone is provided that allows for simple removal of the impeller through effortless disconnection of the duct on the suction side. Both checking and cleaning of the inside of the casing and replacement of the impeller can be performed with ease.

• Excellent corrosion resistance

FRP impellers made with special resin under our proprietary new manufacturing technology ensures that the turbofan can be used for almost all chemical and gas applications except for those involving solvents and organic compounds.

Typical applications:

- As a corrosive gas fan/blower in a chemical or pharmaceutical plant
- As a draft chamber fan/blower in a chemical laboratory treating various gases
- As a fan/blower in a biotechnology research laboratory or experimental semiconductor laboratory
- As fan/blower in kitchen facilities
- As an odorous gas fan/blower in a sewage treatment facility
- As a fan/blower to eliminate coastal salt pollution

FTE FEATURES

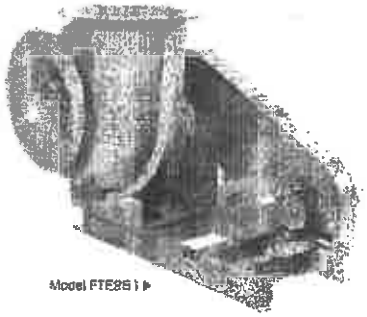
Reducing CO_2 Emissions with Our New Energy-Efficient Fans

FRP TURBO ECONOMICAL FAN

NEW

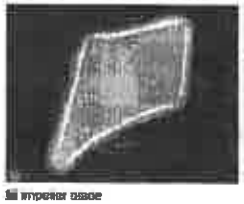
MODEL FTE

At Seikow, we were the first in Japan to develop economical corrosion-resistant fans. We also recognized that an optimized airstream is essential for improving the performance of fans. We therefore employed fluid design analysis based on computational fluid dynamics (CFD) to develop impeller blades with the ideal hydrofoil profile. This approach enabled us to successfully develop an optimized impeller shape.
This innovative impeller design features enhanced efficiency and reduced noise in operation. What's more, it has enabled us to develop our new Model FTE economical corrosion-resistant fans offering significant energy efficiency while reducing CO_2 emissions.



Model FTE25 1 ▶

3D CAD Image of Impeller



■ Impeller blade

■ 3D CAD image of impeller

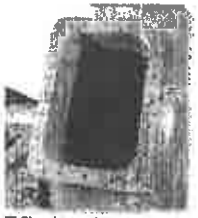
CFD-based analysis has enabled us to optimize blade geometry. The result is an airfoil impeller blade that provides higher efficiency while reducing noise.

We were the first in the industry to adopt oil-lubricated bearings, which enable the Model FTE corrosion-resistant fan to provide continuous long-term operation under severe conditions. Many of our customers consider this the ideal fan. This new and evolutionary Model FTE offers all the excellent features of our conventional Model FTF along with additional eco-friendly features.

■ Belt guard with inspection door

■ Oil-lubricated bearings (cutaway view)

■ Inspection port (Model FTE301)



■ Cleaning port (Model FTE401)

• Improved Performance

The new model exceeds the total pressure efficiency of earlier models by up to 12% while reducing noise levels by 1 to 5 dB(A).

• FRP Molded Parts

The fan's main components are made of highly durable corrosion-resistant FRP, ensuring easy, low-cost maintenance. We produce our FRP parts with a proprietary mechanical molding technology noted for producing a high-quality smooth surface finish that is highly resistant to the accumulation of scale and dirt.

• Increased Capacity

Thanks to the significant increase in static pressure and air capacity ranges, this model is compatible with an even wider range of applications. This model can be used to replace older and larger models for the same application, decreasing initial costs. The selection table shows the shaft power within a 5% margin.

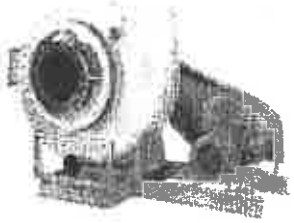
• Backward Compatibility

For assured compatibility, Model FTE has dimensions identical to those of the preceding Model FTF-III. Thus, you can increase performance simply by replacing the impeller and suction cone.

FTB·FTB-CL FEATURES

FRP TURBO BLOWER

MODEL FTB



Model FTB FRP Turbo Blower can solve problems involving corrosion resistance to acids and alkalis, humidity, polluted air and so forth.

• Oil lubricated bearing unit

The bearing unit has a high abrasion rate. Use of oil lubrication has made possible safe and uninterrupted operation. Oil lubrication ensures

a. Improved lubrication.
b. Leak-proof shaft sealing construction prevents infiltration of dirt and water from the exterior.
c. Easy inspection maintenance.
d. Easy alignment.
e. Elimination of arduous grease replacement.

• Corrosion resistance enhancement attachment

The casing/bracket attachment method employed plays an essential role in enhancing corrosion resistance. Corrosion resistance has been further bolstered through the elimination of pin holes by adopting an exterior casing attachment instead of the insert or overlay method.

• Pursuit of total safety

a. The FRP molded belt cover ensures safety during operation.
b. The inspection window equipped belt cover facilitates check against belt looseness.
c. Casing inspection of interior of fan.

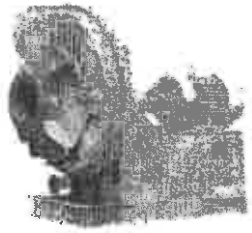
Typical applications:

- As a corrosive gas fan/blower in a chemical or pharmaceutical plant
- As a corrosive gas fan/blower for emissions treatment equipment and gas absorbing towers
- As a corrosive gas fan/blower in a sewage plant and a human-waste treatment plant
- As a corrosive gas fan/blower in a semiconductor fabrication plant
- As a fan/blower to eliminate coastal salt pollution

FTW FEATURES

FRP DOUBLE-IMPELLER BLOWER

MODEL FTW



Units compatible with one impeller can now house two impellers. The high-pressure blower can withstand static pressures exceeding 10 kPa. This high-pressure blower is made of highly corrosion-resistant FRP. The two-stage blower accommodates high static pressures that conventional blowers can match only when two units are connected in series. Three models are available to cover the high-static-pressure range in which blowers are frequently used.

• Reduced space requirements

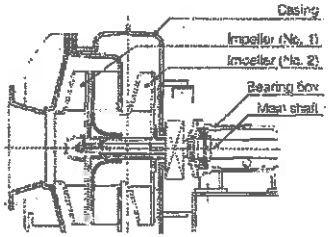
This model requires less installation space than is typically required by two blowers connected in series. This results in simple, streamlined piping layouts.

• Reduced installation costs

The cantilevered structure allows for installation identical to that of a conventional blower. In addition, it requires only the same noise reduction measures required for a single unit, thus reducing the installation cost below that required for two units connected in series.

• Ease of maintenance

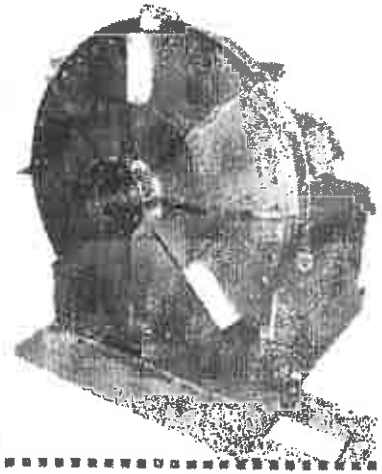
Because this direct-drive unit requires no V-belt link to the motor, it eliminates tension adjustment and belt checking and replacement. The work required for operation and maintenance is similar to that required by a single unit; thus, time and cost are reduced.



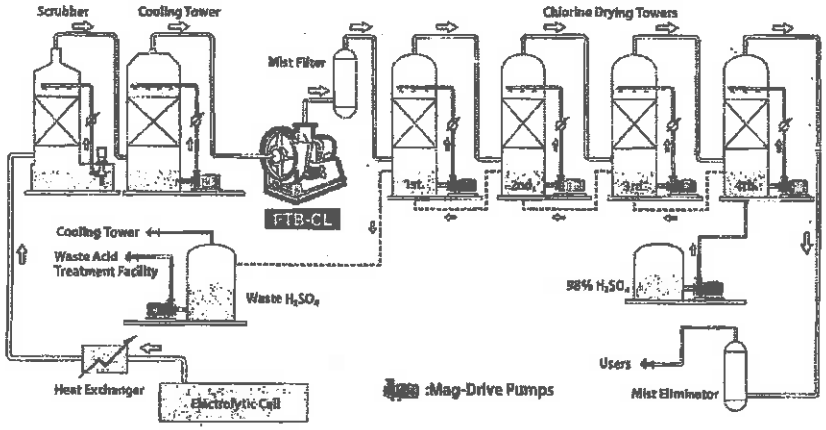
Model FTB-CL is the optimal blower for sending high-concentration gaseous chlorine.

MODEL FTB-CL

Model FTB-CL blower was developed in order to correspond to high-concentration chlorine. This blower has adopted the impeller made from titanium, and the casing made from FRP in order to bear gaseous chlorine with high corrosiveness. Also, the water-seal type gland sealing is adopted to prevent a gas leak completely.



The general process of chlorine refining



CORROSION RESISTANCE TABLE

Unit: °F/°C

Chemicals	Molecular Formula	Density Wt%	FTF/FTB	CTF TS1~201 NSF302 *SF602	CCS 101~201	*TB1-60 TB1%-100	Classification
Hydrochloric Acid	HCl	20	176(80)	122(50)	122(50)	104(40)	Inorganic Acid Gases
Perchloric Acid	$HClO_4$	10	158(70)	122(50)	122(50)	104(40)	
Chloric Acid	$HClO_3$	20	122(50)	122(50)	×	×	
Hydrofluosilic Acid	H_2SiF_6	10	140(60)	104(40)	104(40)	104(40)	
Hydrocyanic Acid	HCN	ALL	176(80)	122(50)	122(50)	104(40)	
Hydrobromic Acid	HBr	10	176(80)	122(50)	122(50)	104(40)	
Nitric Acid	HNO_3	10	158(70)	104(40)	122(50)	104(40)	
Fuming Sulfuric Acid	$H_2SO_4+SO_3$		×	×	×	×	
Hydrofluoric Acid	HF	1	158(70)	104(40)	×	104(40)	
Boric Acid	H_3BO_3	ALL	176(80)	122(50)	122(50)	104(40)	
Hydrofluoric Anhydride	HF		×	×	×	×	
Sulfuric Anhydride	SO_3		×	×	×	×	
Sulfuric Acid	H_2SO_4	40	176(80)	122(50)	122(50)	104(40)	
Phosphoric Acid	H_3PO_4	30	176(80)	122(50)	122(50)	104(40)	
Sulfurous Acid Gas	SO_2	25	176(80)	122(50)	122(50)	104(40)	
Carbon Monoxide	CO		176(80)	122(50)	122(50)	104(40)	
Chlorine Gas	Cl_2	5	176(80)	122(50)	×	104(40)	
Ozone	O_3	10(ppm)	122(50)	122(50)	122(50)	104(40)	
Bromine	Br_2		×	×	×	×	
Nitrogen Oxide	NO_2	5	176(80)	122(50)	122(50)	104(40)	
Hydrogen Sulfide	H_2S	10	176(80)	122(50)	122(50)	104(40)	
Acrylic Acid	$CH_2=CHCOOH$	10	122(50)	122(50)	×	×	Organic Acid Gases
Adipic Acid	$(CH_2)_4(COOH)_2$	23	176(80)	122(50)	122(50)	104(40)	
Oleic Acid	$C_{17}H_{33}COOH$	ALL	176(80)	122(50)	122(50)	104(40)	
Formic Acid	HCOOH	10	158(70)	122(50)	122(50)	104(40)	
Citric Acid	$C_6H_8O_7$	25	176(80)	122(50)	122(50)	104(40)	
Glycolic Acid	$CH_2OHCOOH$	30	122(50)	122(50)	122(50)	104(40)	
Acetic Acid	CH_3COOH	25	176(80)	122(50)	122(50)	104(40)	
Acetic Anhydride	$(CH_3CO)_2O$		×	×	×	×	
Oxalic Acid	$(COOH)_2$	20	176(80)	122(50)	122(50)	104(40)	
Tartaric Acid	$(CHOH)_2(COOH)_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Stearic Acid	$C_{17}H_{35}COOH$	ALL	176(80)	122(50)	122(50)	104(40)	
Tannic Acid	$C_{76}H_{52}O_{46}$	ALL	176(80)	122(50)	122(50)	104(40)	
Thioglycolic Acid	$HSCH_2COOH$	ALL	×	×	×	×	
Lactic Acid	$CH_3CHOHCOOH$	ALL	176(80)	122(50)	122(50)	104(40)	
Picric Acid	$C_6H_2(NO_2)_3OH$	1	104(40)	104(40)	122(50)	104(40)	
Benzene Sulfonic Acid	$C_6H_5SO_3H$	10	104(40)	122(50)	122(50)	104(40)	
Maleic Acid	$(CHCOOH)_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Monochloroacetic Acid	$CH_2ClCOOH$	25	104(40)	104(40)	122(50)	104(40)	
Benzoic Acid	C_6H_5COOH	ALL	176(80)	122(50)	122(50)	104(40)	
Butyric Acid	C_3H_7COOH	5	176(80)	122(50)	122(50)	104(40)	
Ammonia (gas)	NH_3	ALL	95(50)	68(30)	122(50)	104(40)	Alkalis
Ammonium Hydroxide	NH_4OH	20	140(60)	122(50)	122(50)	104(40)	
Potassium Hydroxide	KOH	10	140(60)	122(50)	122(50)	104(40)	
Calcium Hydroxide	$Ca(OH)_2$	25	176(80)	122(50)	122(50)	104(40)	
Sodium Hydroxide	NaOH	25	140(60)	122(50)	122(50)	104(40)	
Barium Hydroxide	$Ba(OH)_2$	10	158(70)	122(50)	122(50)	104(40)	
Chlorine Water		Saturation	176(80)	×	×	×	Bleaches
Hydrogen Peroxide	H_2O_2	30	104(40)	122(50)	×	104(40)	
Hypochlorous Acid	HClO	10	140(60)	122(50)	122(50)	104(40)	
Calcium Hypochlorite	$Ca(ClO)_2$	ALL	140(60)	122(50)	122(50)	104(40)	
Sodium Hypochlorite	NaClO	15	140(60)	122(50)	122(50)	104(40)	
Chlorine Dioxide	ClO_2	15	176(80)	122(50)	×	104(40)	

*Numbers shown in the table are the applicable temperature.
*Numbers in parenthesis are the applicable temperature of normal operations.

Note1. Be careful when choosing CES101~201 for HF applications that the maximum speed differs with that for normal use.

Note2: The maximum applicable concentration of Sulfuric Acid is 40% in the occurrence of mist. Install a mist separator. It supports the generation of mineral salt (as within a range of pH2.5~10). Please consult us for applications different than stated above.

(101~2: Not applicable to the CTF Model.

(TB1~4: Metal SF and TB series are not available in the catalog.

In models NSF302~SF602 there are a combination CTS model exclusively for chlorine dioxide use.

Sulfuric Acid and Acid Mist Resistant Classification

Citric acid Resistant Classification

Hydrochloric and Acid Resistant

Non-corrosive Resistant Classification

Available can be handled with the CTS model.

Unit: °F/°C

Chemicals	Molecular Formula	Density Wt%	FTF/FTB	CTF TS1~201 NSF302 *SF602	CCS 101~201	*TB1-60 TB1%-100	Classification
Sodium Nitrite	$NaNO_2$	ALL	176(80)	122(50)	122(50)	104(40)	Salts
Sodium Sulfite	Na_2SO_3	ALL	176(80)	122(50)	122(50)	104(40)	
Aluminum Chloride	$AlCl_3$	ALL	176(80)	122(50)	122(50)	104(40)	
Ammonium Chloride	NH_4Cl	ALL	176(80)	122(50)	122(50)	104(40)	
Calcium Chloride	$CaCl_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Ferric Chloride	$FeCl_3$	ALL	176(80)	122(50)	122(50)	104(40)	
Copper Chloride	$CuCl_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Nickel Chloride	$NiCl_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Barium Chloride	$BaCl_2$	ALL	176(80)	122(50)	122(50)	104(40)	
Potassium Permanganate	$KMnO_4$	10	176(80)	122(50)	×	104(40)	
Potassium Dichromate	$K_2Cr_2O_7$	20	176(80)	122(50)	×	×	
Potassium Bicarbonate	$KHCO_3$	50	176(80)	122(50)	122(50)	104(40)	
Ammonium Nitrate	NH_4NO_3	ALL	176(80)	122(50)	122(50)	104(40)	
Silver Nitrate	$AgNO_3$	ALL	176(80)	122(50)	122(50)	104(40)	
Sodium Carbonate	Na_2CO_3	35	176(80)	122(50)	122(50)	104(40)	
Magnesium Carbonate	$MgCO_3$	ALL	158(70)	122(50)	122(50)	104(40)	
Sodium Sulfide	Na_2S	ALL	176(80)	122(50)	122(50)	104(40)	
Zinc Sulfide	$ZnSO_4$	ALL	176(80)	122(50)	122(50)	104(40)	
Ammonium Sulfide	$(NH_4)_2SO_4$	20	176(80)	122(50)	122(50)	104(40)	
Potassium Sulfide	K_2SO_4	ALL	176(80)	122(50)	122(50)	104(40)	
Ferric Sulfide	$Fe_2(SO_4)_3$	ALL	176(80)	122(50)	122(50)	104(40)	
Copper Sulfide	$CuSO_4$	ALL	176(80)	122(50)	122(50)	104(40)	
Magnesium Sulfide	$MgSO_4$	ALL	176(80)	122(50)	122(50)	104(40)	
Acrylonitrile	$CH_2=CHCN$		×	×	×	×	Solvents & Organic Compounds
Acetaldehyde	CH_3CHO		×	×	×	×	
Acetonitrile	CH_3CN		×	×	×	×	
Acetophenone	$C_6H_5COCH_3$		×		×	×	
Acetone	CH_3COCH_3		×	×	×	×	
Aniline	$C_6H_5NH_2$		×	×	×	×	
Isopropylamine	$(CH_3)_2CHNH_2$	ALL	122(50)	122(50)	×	×	
Isopropyl Alcohol	$(CH_3)_2CHOH$	ALL	122(50)	122(50)	122(50)	104(40)	
Ethyl Alcohol	C_2H_5OH	50	122(50)	122(50)	122(50)	104(40)	
Ethyl Ether	$C_2H_5OC_2H_5$		×	×	×	×	
Ethylene Oxide	CH_2CH_2O		×	×	×	×	
Ethylene Glycol	$HOCH_2CH_2OH$	ALL	176(80)	122(50)	122(50)	104(40)	
Ethylene Chloride	$ClCH_2CH_2Cl$		×	×	×	×	
Methylene Chloride	CH_2Cl_2		×		×	×	
Gasoline		ALL	122(50)	122(50)	×	×	
Glycerin	$C_3H_5(OH)_3$	5	176(80)	122(50)	122(50)	104(40)	
Cresol	$CH_3C_6H_4OH$	5	×	×	122(50)	104(40)	
Chloroform	$CHCl_3$		×		×	×	
Ethyl Acetate	$CH_3COOC_2H_5$		×		×	×	
Methyl Acetate	CH_3COOCH_3		×	×	×	×	
Diethyl Ketone	$C_2H_5COC_2H_5$		×	×	×	×	
Dimethylamine	$(CH_3)_2NH$		×	×	×	×	
Ethyl Bromide	C_2H_5Br		×	×	×	×	
Trichlorobenzene	$C_6H_3Cl_3$		×	×	×	×	
Toluene	$C_6H_5CH_3$	ALL	122(50)	122(50)	×	×	
Naphtha		ALL	104(40)	104(40)	×	×	
Sulfur Dioxide	SO_2		×	×	×	×	
Pyridine	C_5H_5N		×		×	×	
Phenol Sulfonic Acid	$C_6H_4OH(SO_3H)$		×	×	×	×	
Heptane	$CH_3(CH_2)_5CH_3$	10	104(40)	122(50)	122(50)	×	
Benzaldehyde	C_6H_5CHO		×	×	×	×	
Benzene	C_6H_6	ALL	122(50)	122(50)	×	×	
Formaldehyde	HCHO	10	158(70)	122(50)	122(50)	104(40)	
Methyl Alcohol	CH_3OH	50	122(50)	122(50)	122(50)	104(40)	

Sulfuric Acid and Acid Mist Resistant Classification

Citric Acid Resistant Classification

Hydrochloric and Acid Resistant

Non-corrosive Resistant Classification

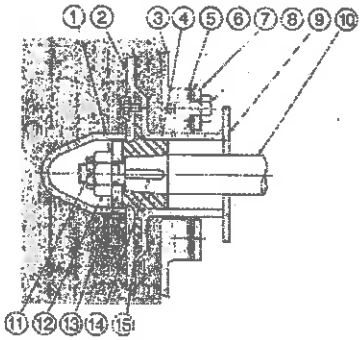
Available can be handled with the CTS model.

GLAND SEALING

①Seal-Plate Type

This is a shaft sealing device for our standard type of fans/blowers. There is no gas leakage from the gland part, where a shaft passes through, due to the effect by rear plate, even when a static pressure of the fan/blower up to 65% acts on the discharge-side. (Secondary air can be sucked in from the gland part, where a shaft passes through.)
Even if a gas leakage would occur, this device minimizes a clearance of the gland part, resulting in a minimized gas leakage. No maintenance work will be required for a long time of operation.

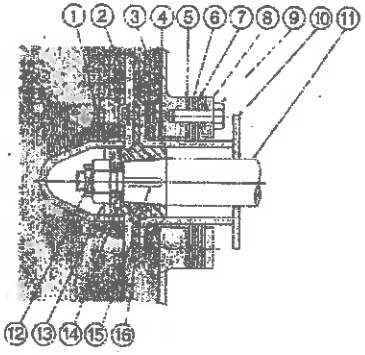
P/No.	Part Name	Qty.
1	Nut Cover	1pc.
2	Impeller	1pc.
3	Casing	1pc.
4	Shaft Sleeve	1pc.
5	Gland Gasket	1pc.
6	Seal Plate	1pc.
7	Seal Plate Tightener	1pc.
8	Gland Bolt	1set
9	Gas Separator	1pc.
10	Shaft	1pc.
11	Split Pin	1pc.
12	Nut (with Groove)	1pc.
13	Impeller Washer	1pc.
14	Impeller Key	1pc.
15	Impeller Base	1pc.



②Labyrinth-Seal Type

This device can be attached to our standard type of fans/blowers without any modifications. As in "Seal-Plate Type", there is no gas leakage from gland part, even when a static pressure of the fan/blower up to 65% acts on the discharge side. (Secondary air can be sucked in from the gland part, but its volume is smaller than in "Seal-Plate Type".)
Also, A gas leakage rate will be less compared with the "Seal-Plate Type". No maintenance work will be required for a long time of operation.

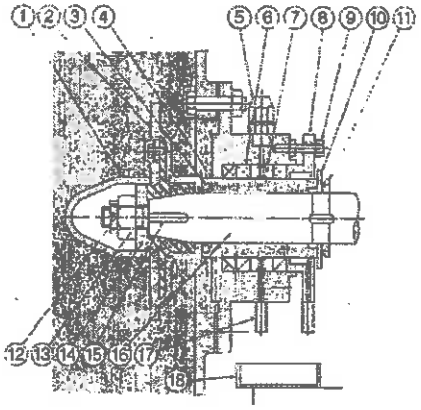
P/No.	Part Name	Qty.
1	Nut Cover	1pc.
2	Impeller	1pc.
3	Casing	1pc.
4	Shaft Sleeve	1pc.
5	Gland Gasket	1pc.
6	Spacer	1pc.
7	Seal Plate	1pc.
8	Seal Plate Tightener	1pc.
9	Gland Bolt	1set
10	Gas Separator	1pc.
11	Shaft	1pc.
12	Split Pin	1pc.
13	Nut (with Groove)	1pc.
14	Impeller Washer	1pc.
15	Impeller Key	1pc.
16	Impeller Base	1pc.



③Packing-Seal Type

This device can not be attached to our standard type of fans/blowers without any model changes. In this sealing device, gas sealing can be performed by a pressure of the packing and cooling water membrane. Materials of shaft sleeve should vary according to the gas handled. Periodical maintenance work such as tightening, replacement of the packing, etc. will be required.

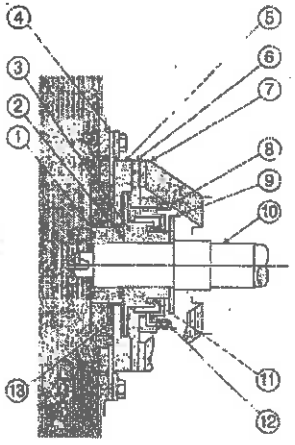
P/No.	Part Name	Qty.
1	Nut Cover	1pc.
2	Impeller	1pc.
3	O-Ring	1pc.
4	Shaft Sleeve	1pc.
5	Inlet Union	1pc.
6	Packing	1set
7	Lantern Ring	1pc.
8	Packing Tightener	1pc.
9	Tightening Bolt	1set
10	Gas Separator	1pc.
11	Shaft Sleeve Nut	1pc.
12	Split Pin	1pc.
13	Nut (with Groove)	1pc.
14	Impeller Washer	1pc.
15	Impeller Key	1pc.
16	Shaft	1pc.
17	Drain Pipe	1set
18	Drain Receiver	1pc.



④Water-Seal Type

This device can not be attached to our standard type of fans/blowers without any modifications. In this sealing device, gas sealing can be performed by water membrane, generated by centrifugal force of the rotating impeller. Materials of shaft sleeve should vary according to the gas handled.
Unlike in "Packing-Seal Type", periodical maintenance work such as tightening and replacement of the packing, etc. will not be required. Since some types of gas combine with water, waste water treatment may be required.

P/No.	Part Name	Qty.
1	Distance Piece	1pc.
2	O-Ring	1set
3	Rotor	1pc.
4	Gland Gasket	1pc.
5	Gland Box	1pc.
6	Drain Catcher	1pc.
7	Bearing Housing Cover	1pc.
8	Inlet Union	1pc.
9	Water Separator	1pc.
10	Shaft	1pc.
11	V-Ring	1pc.
12	Outlet Union Seal	1set
13	Seal Plate	1set



ACCESSORIES

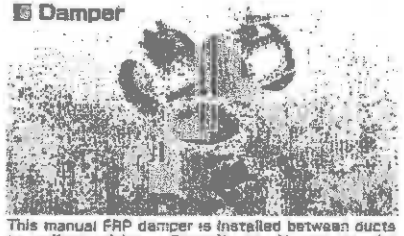
Coupling Flange

If your application uses PVC ducting, we can supply a set of coupling flanges with nuts and bolts on request. This set accommodates a maximum operating temperature of 122°F.

Vibration Isolation Coupling

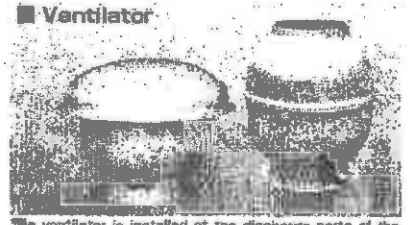
This coupling is used between the blower and duct to reduce the blower vibration transferred to the duct and to protect the blower against loads imparted from the duct. This coupling is a required item for blower piping.

Damper



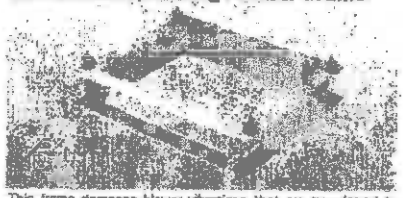
This manual FRP damper is installed between ducts to adjust airflow. Consult us if you require electrically controlled dampers.

Ventilator



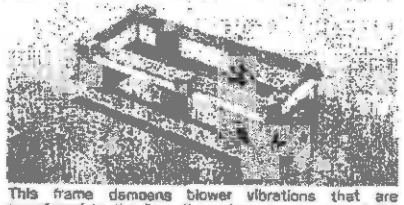
The ventilator is installed at the discharge ports of the blower and duct to prevent rain and snow ingress.

Vibration-proofing Rubber Frame



This frame dampens blower vibrations that are transferred to the floor. An optional vibration-resistant stopper bolt can be added. Consult us if you have predetermined the isolation efficiency, as the vibration-proofing rubber may not absorb the required amount of vibration.

Vibration Isolation Spring Frame



This frame dampens blower vibrations that are transferred to the floor. If you have predetermined the isolation efficiency, consult us regarding the choice of springs.

Soundproof Box

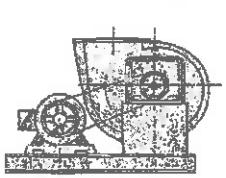
The soundproof box cuts noise originating at the blower, bearings, and motor that is transmitted through the casing. The box typically mutes the sound level by 18 to 23 dB(A) depending on the model and rpm. This accessory does not attenuate noise in the duct.

Silencer

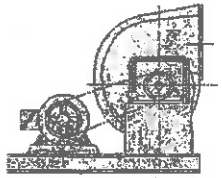
The silencer can be used to reduce noise traveling through the suction and discharge ducts. It typically reduces sound levels by 15 to 25 dB(A) depending on the model and rpm.

DISCHARGE AND ROTATIONAL DIRECTIONS

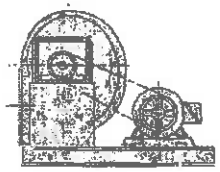
The discharge and rotational directions of TEXEL corrosion resistant fans/blowers are shown in the following figures. They are shown from the pulley side or from the motor shaft end. For example, if it is "the clockwise rotation and upward vertical discharge", denote it with "RH".



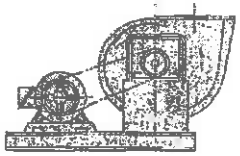
Clockwise rotation, upside vertical discharge (RH)



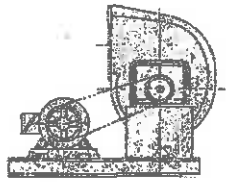
Clockwise rotation, upside horizontal discharge (RR)



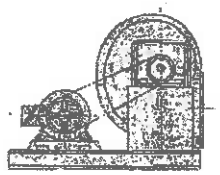
Clockwise rotation, down-side horizontal discharge (RL)



Anticlockwise rotation, upside vertical discharge (LH)



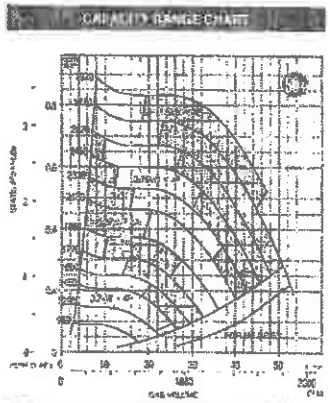
Anticlockwise rotation, upside horizontal discharge (LL)

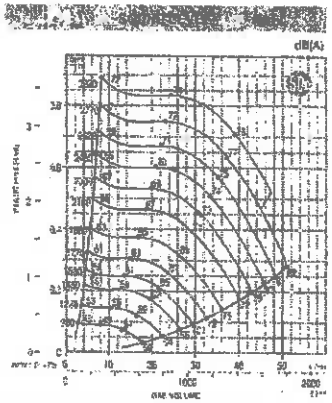


Anticlockwise rotation, down-side horizontal discharge (LR)

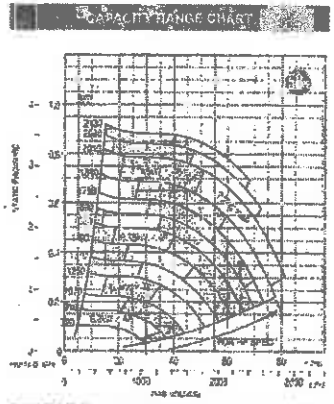
CES CAPACITY RANGE CHART

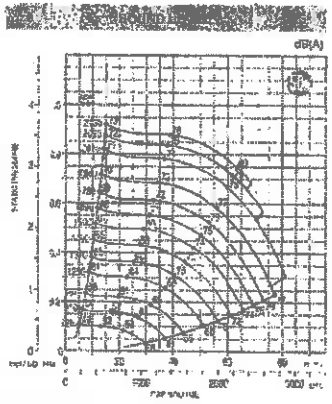
CES101



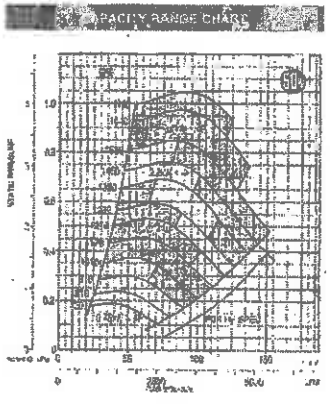


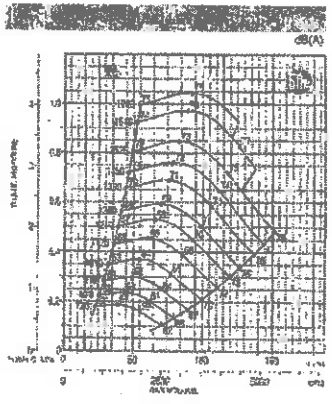
CES151



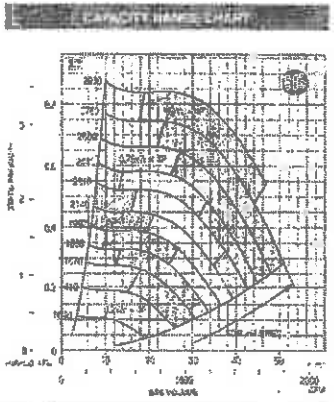


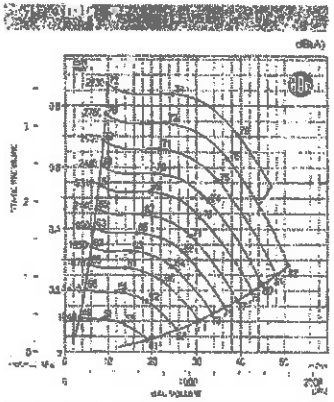
CES201



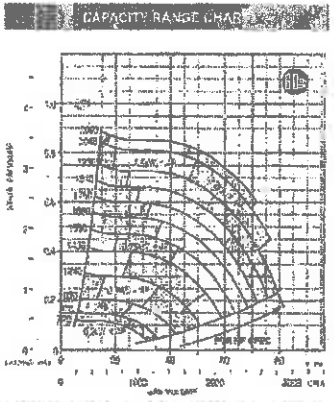


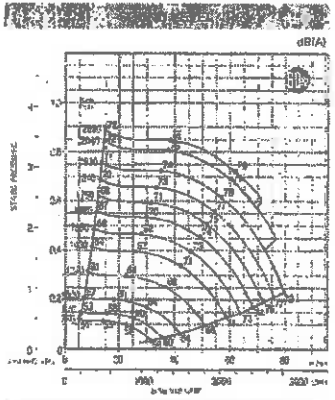
CES101



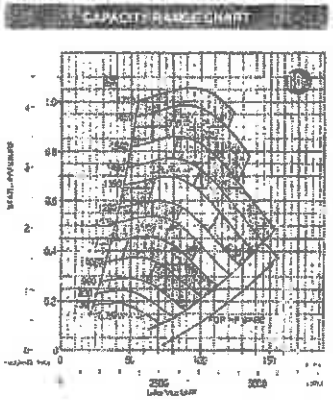


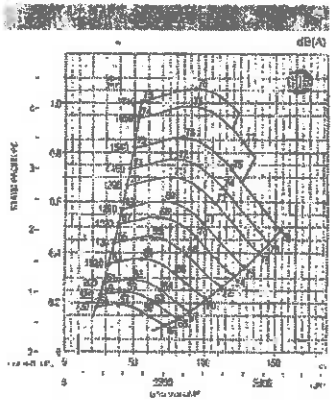
CES151





CES201



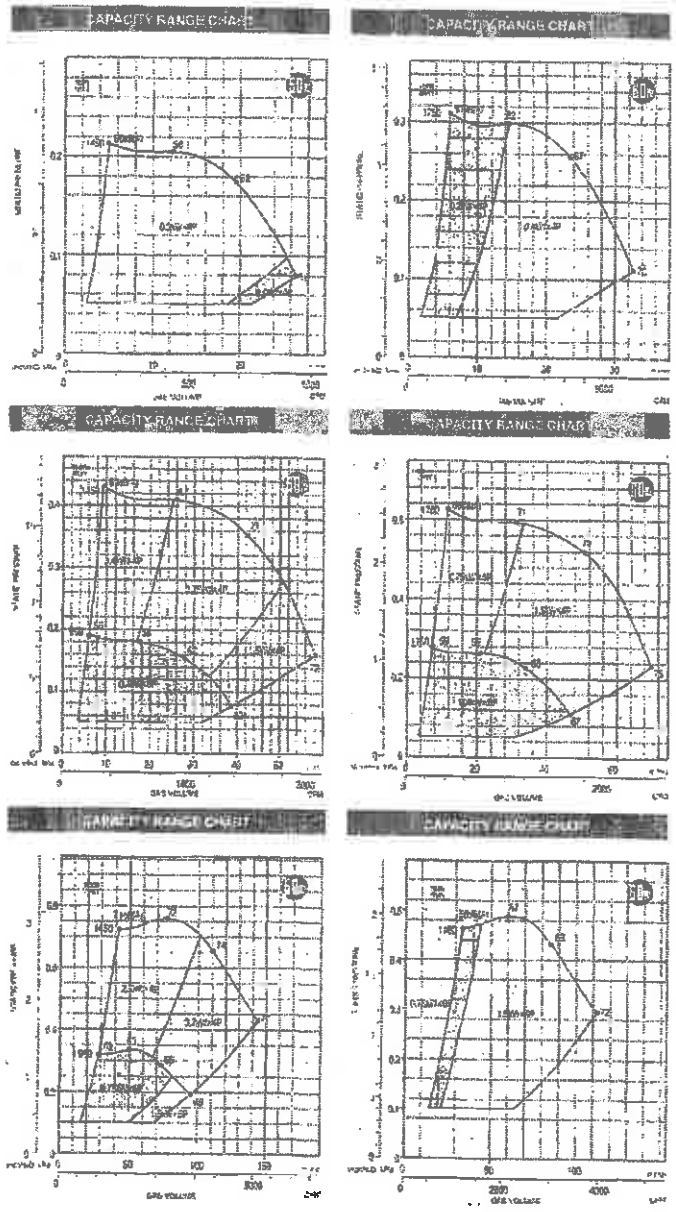


CES-D CAPACITY RANGE CHART

CES101D

CES151D

CES201D

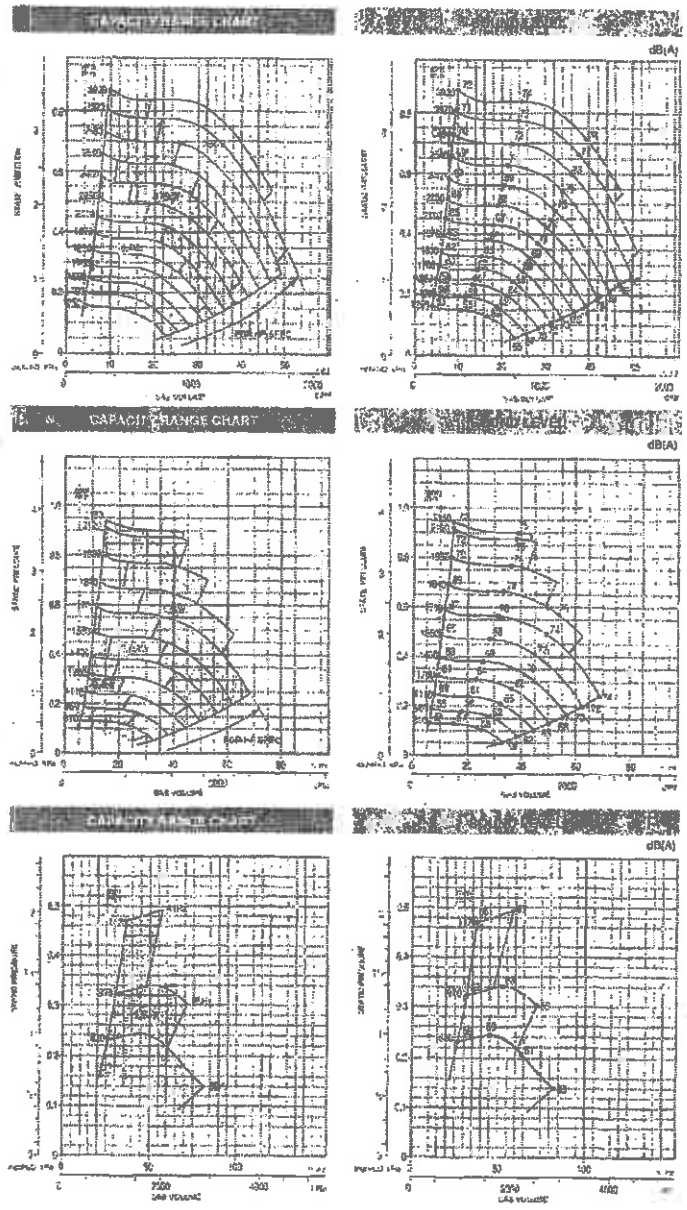


CES-V CAPACITY RANGE CHART

CES101V

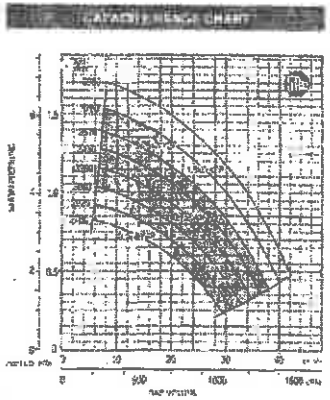
CES151V

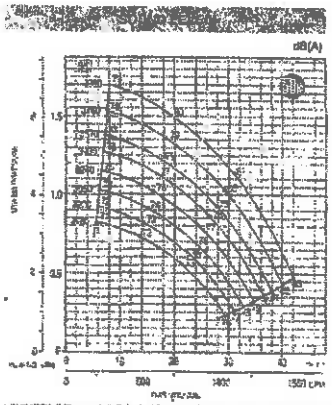
CES201V



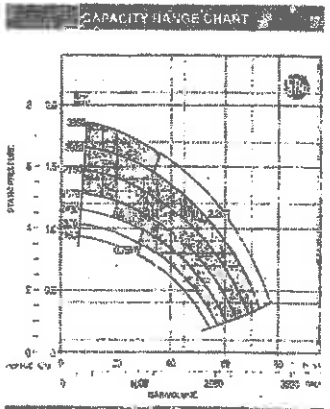
CTF/FTF 50Hz CAPACITY RANGE CHART

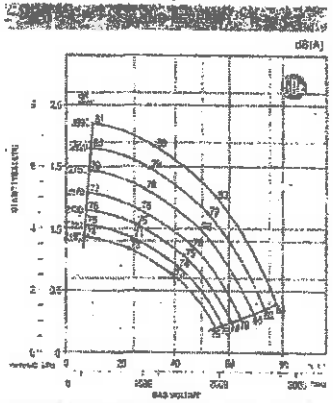
CTF151



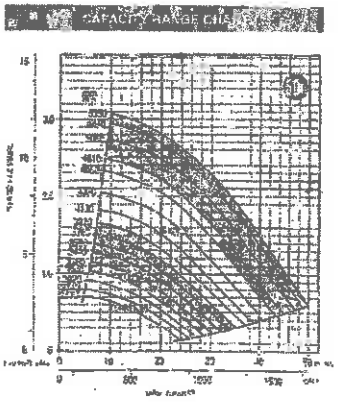


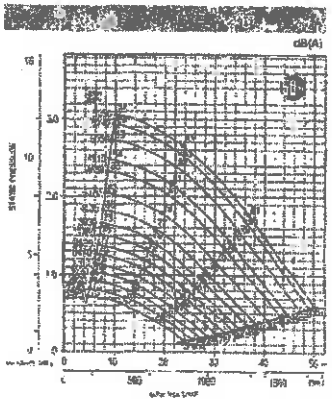
CTF201



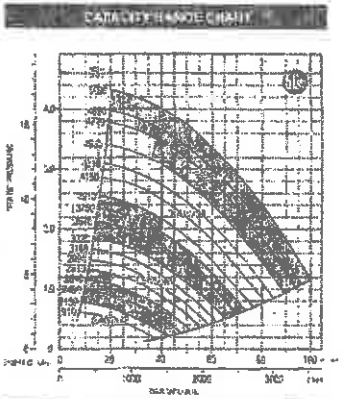


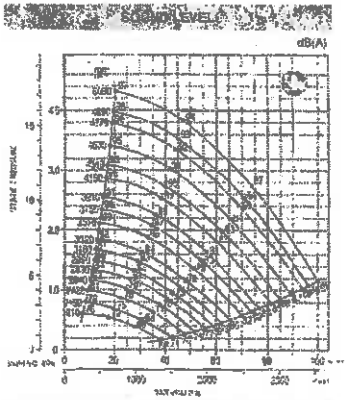
FTF153



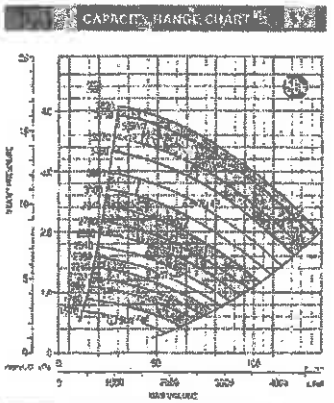


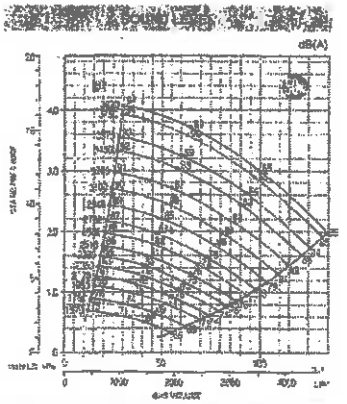
FTF203



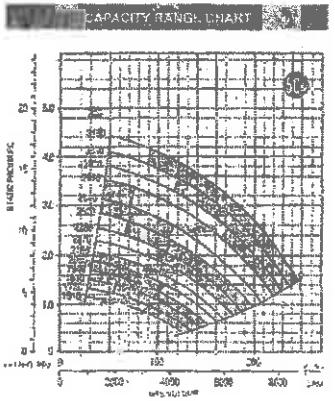


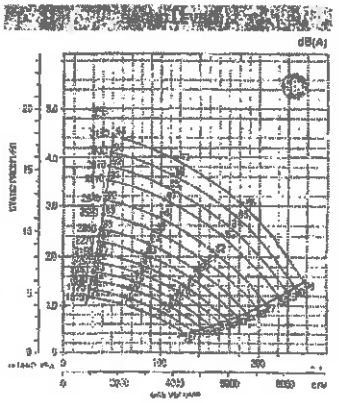
FTF253





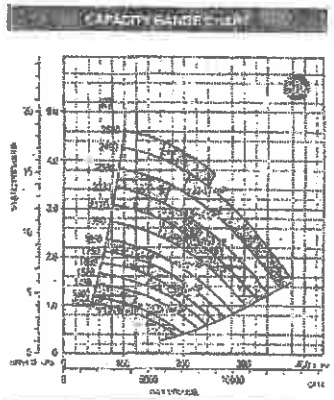
FTF303

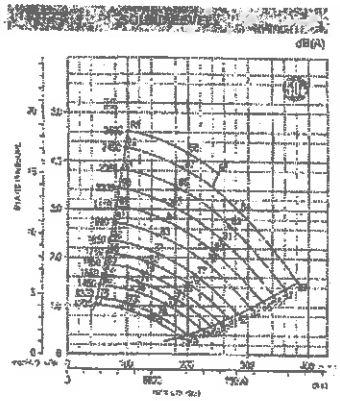




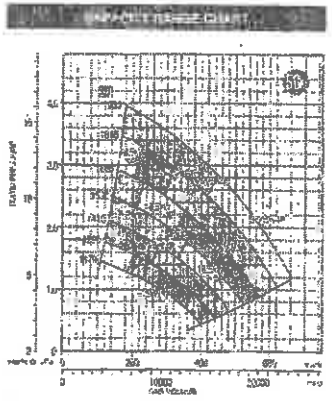
FTF 50Hz CAPACITY RANGE CHART

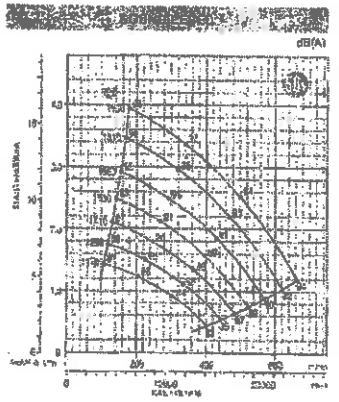
FTF403



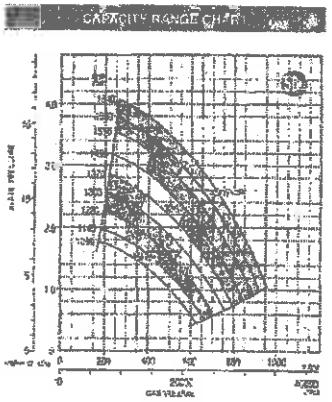


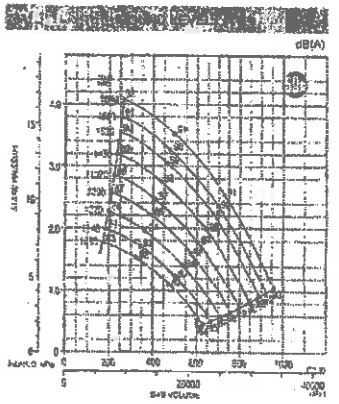
FTF503



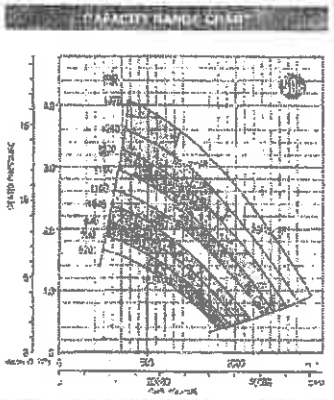


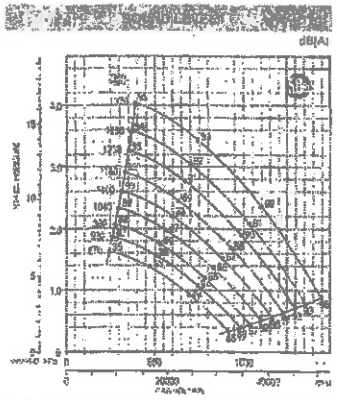
FTF603



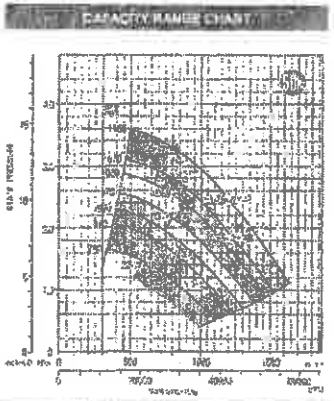


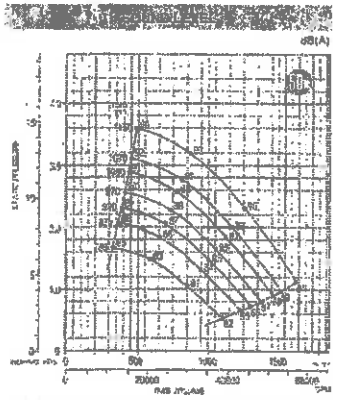
FTF703



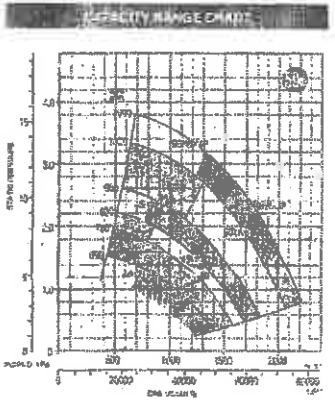


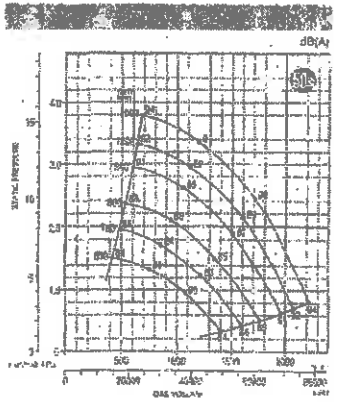
FTF803





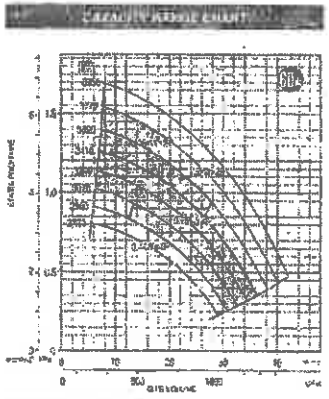
FTF903

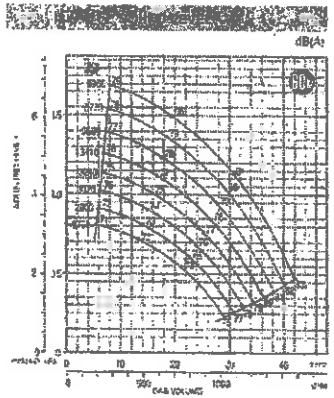




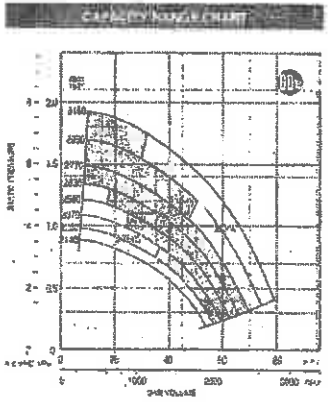
CTF/FTF 60Hz CAPACITY RANGE CHART

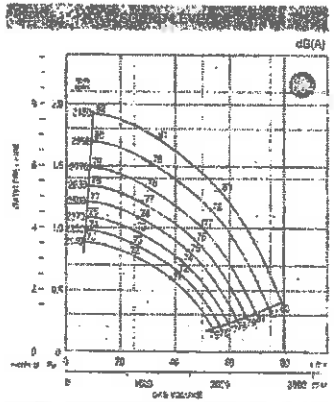
CTF15



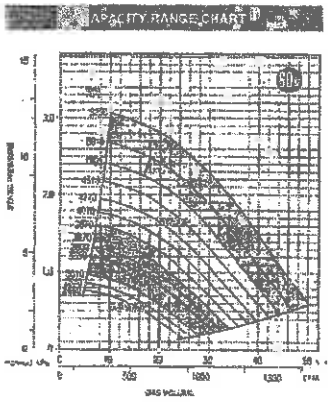


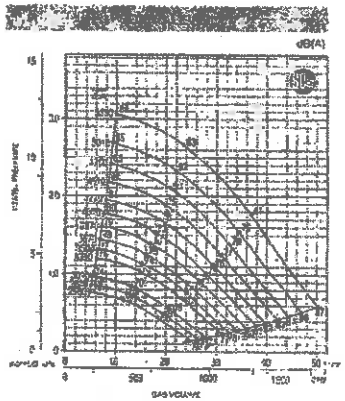
CTF20



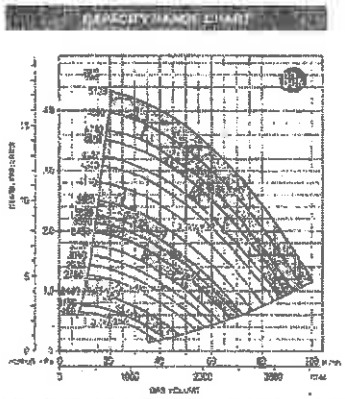


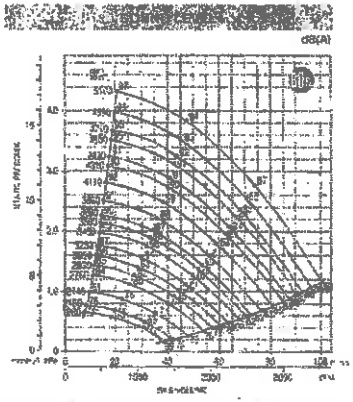
FTF15



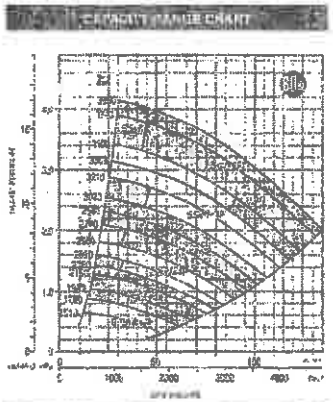


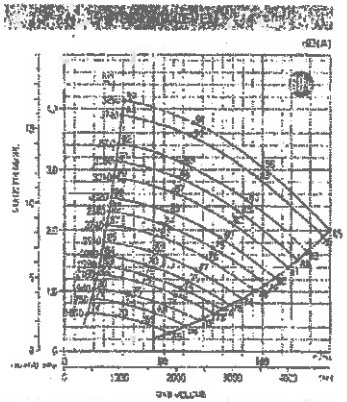
FTF203



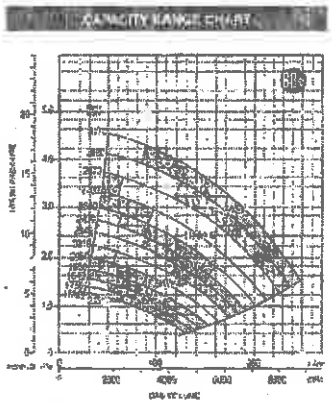


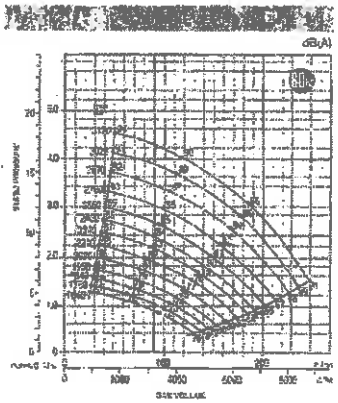
FTF253





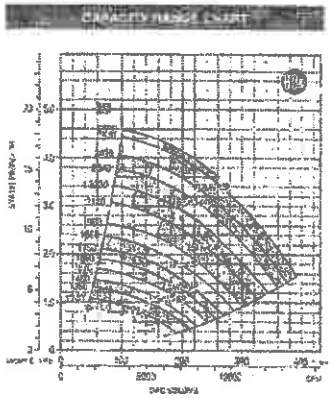
FTF303

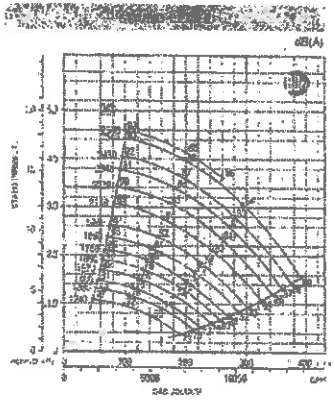




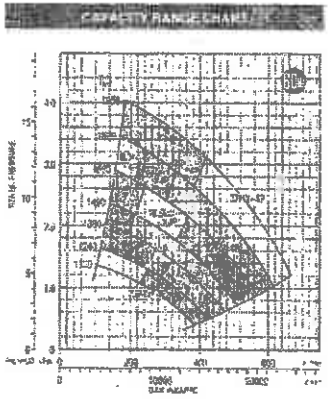
FTF 60Hz CAPACITY RANGE CHART

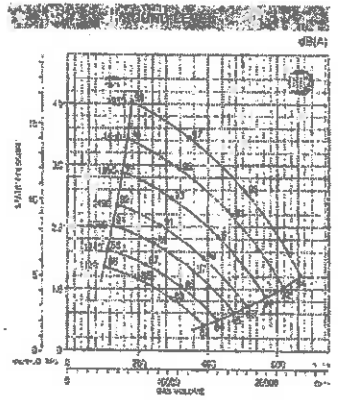
FTF403



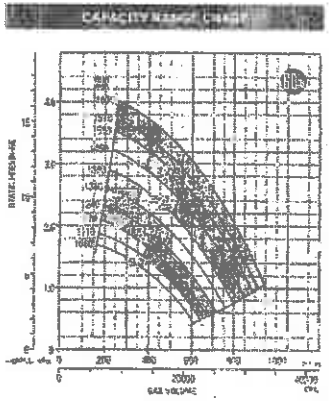


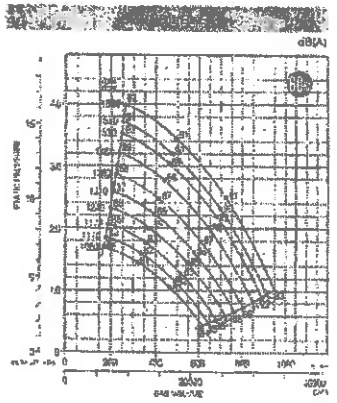
FTF503



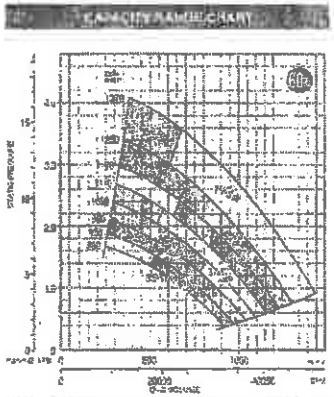


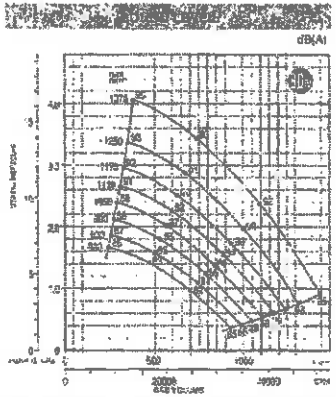
FTF603



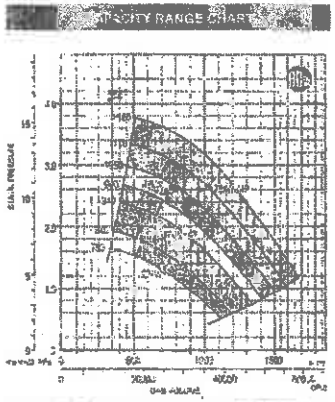


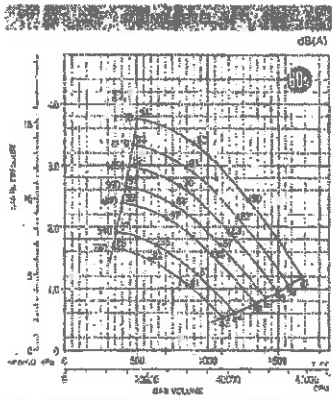
FTF703



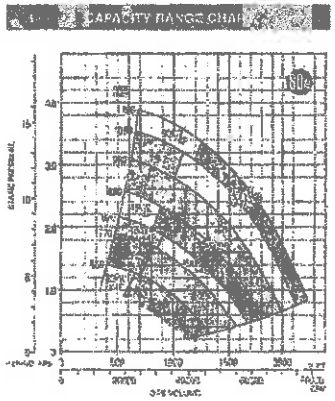


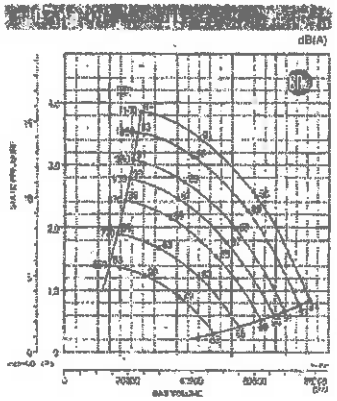
FTF803





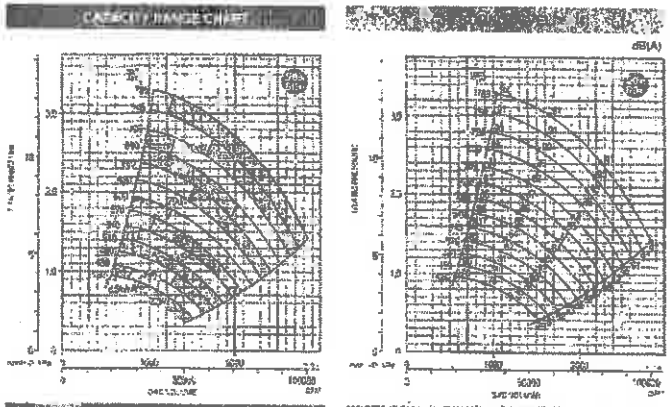
FTF903



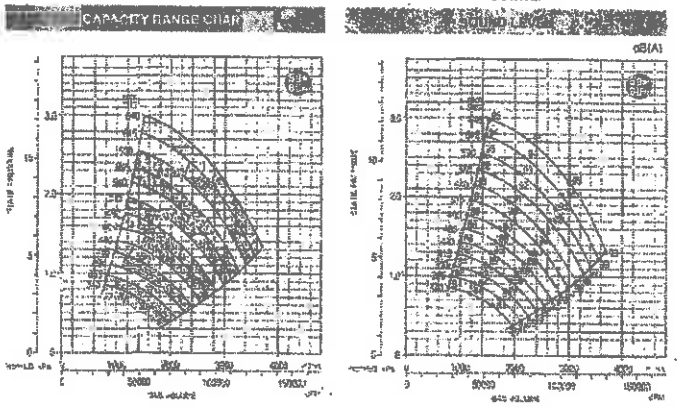


FTF 50/60Hz CAPACITY RANGE CHART

FTF1201

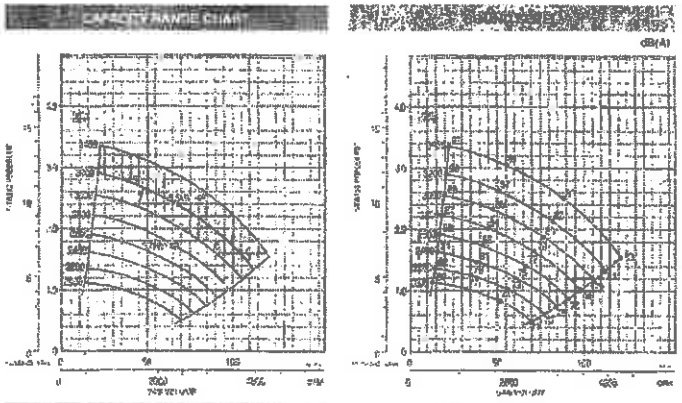


FTF1401

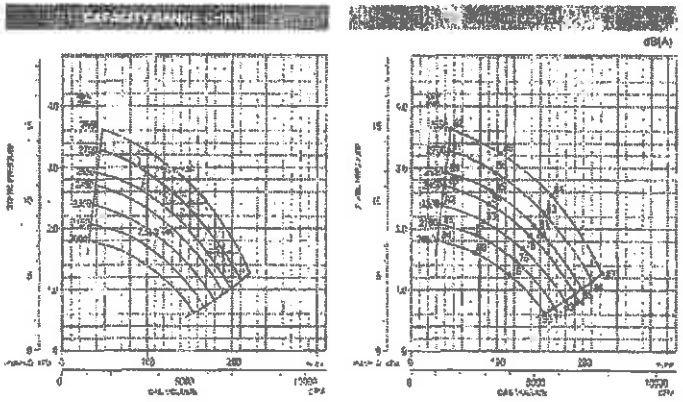


FTF-M CAPACITY RANGE CHART

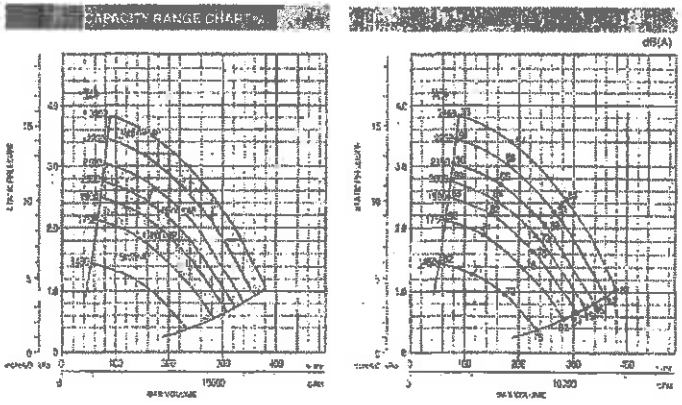
FTF253M



FTF303M



FTF403M



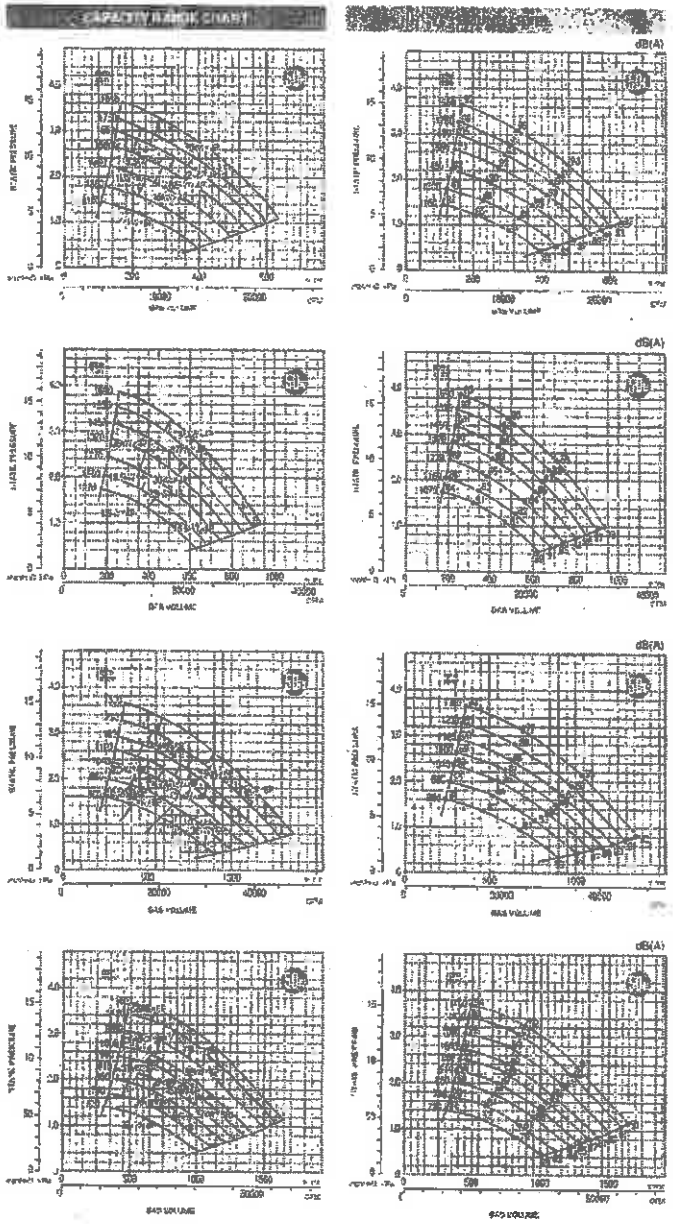
FTF-M CAPACITY RANGE CHART

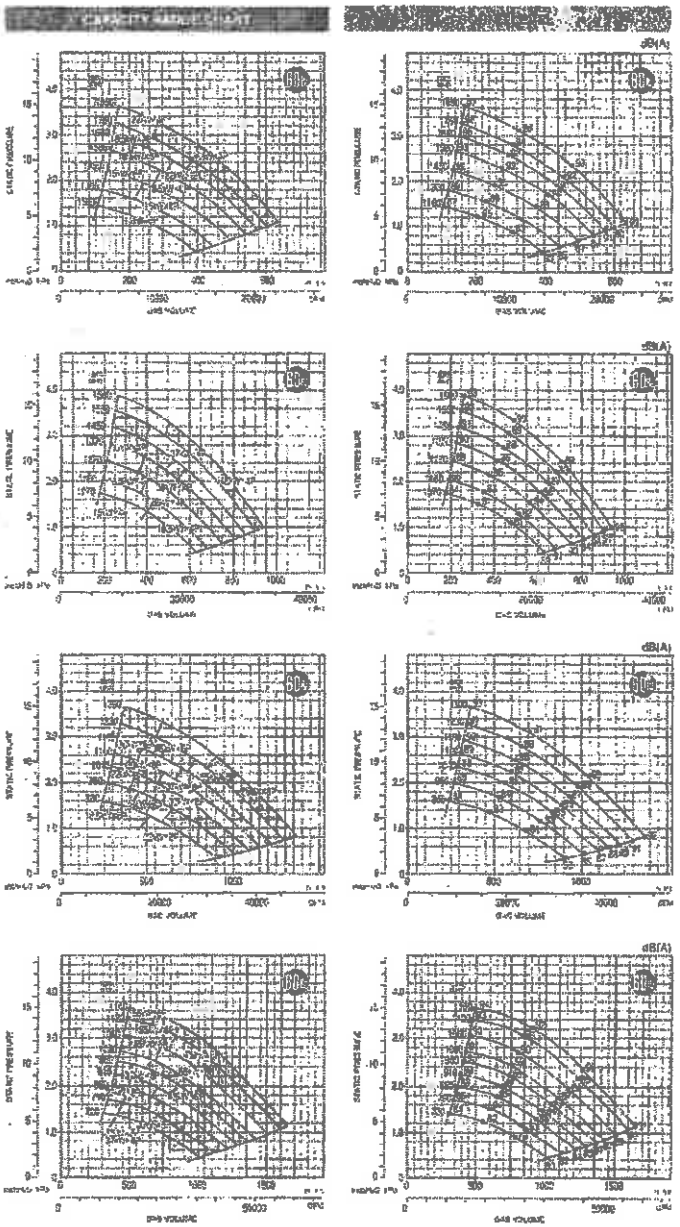
FTF503M

FTF603M

FTF703M

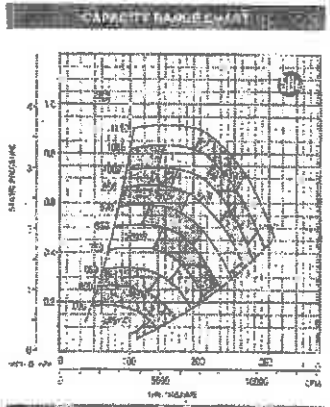
FTF803M

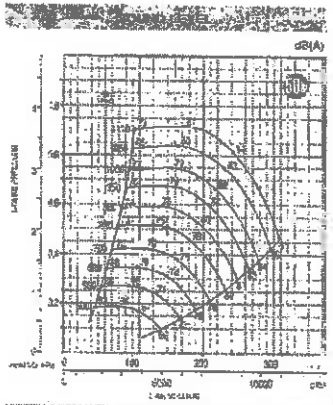




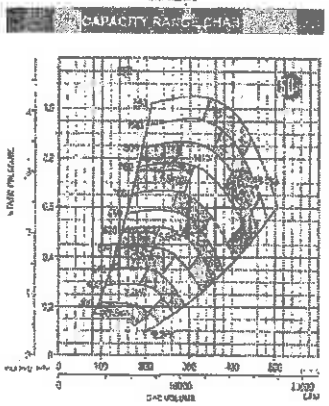
NSF CAPACITY RANGE CHART

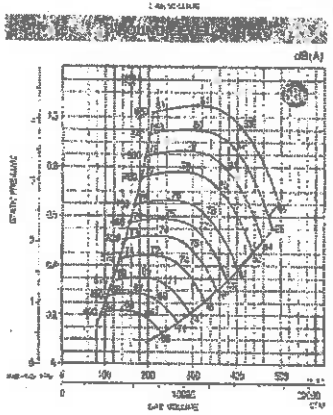
NSF302



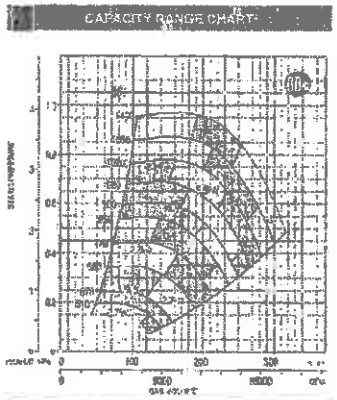


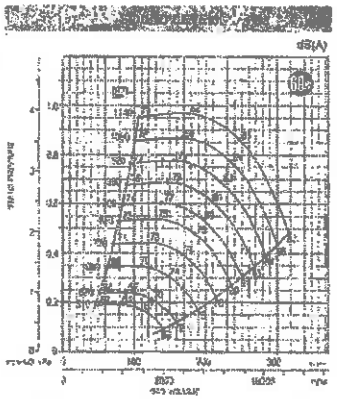
NSF402



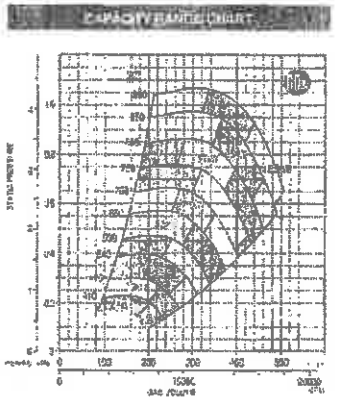


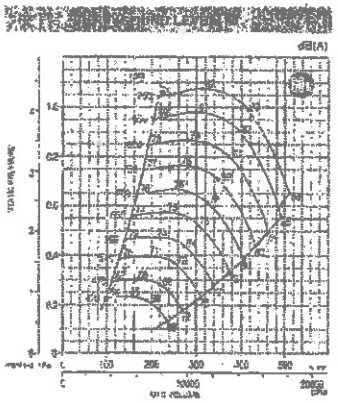
NSF302





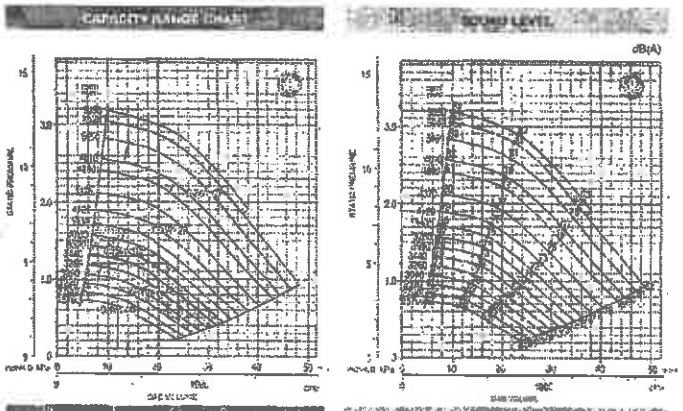
NSF402



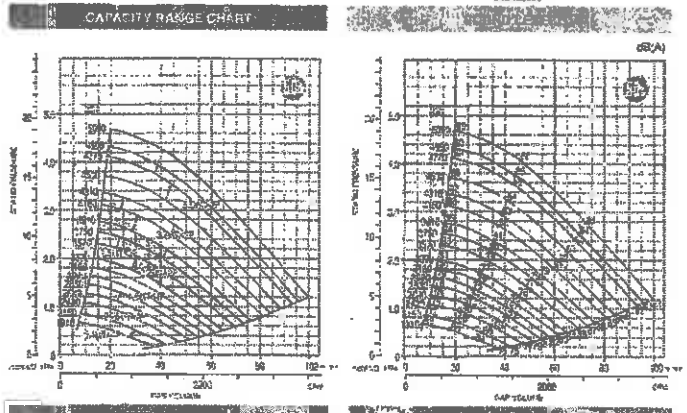


FTE CAPACITY RANGE CHART

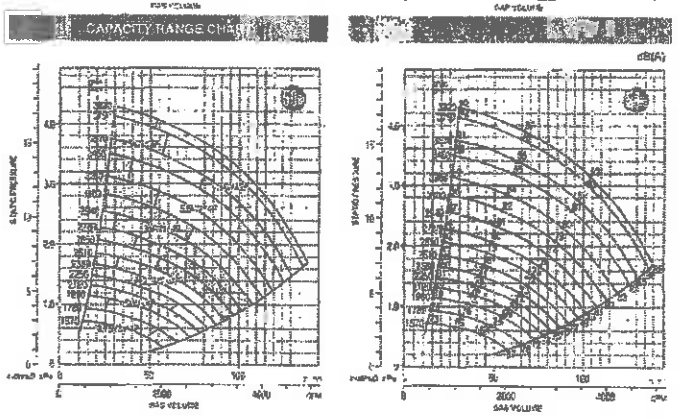
FTE151



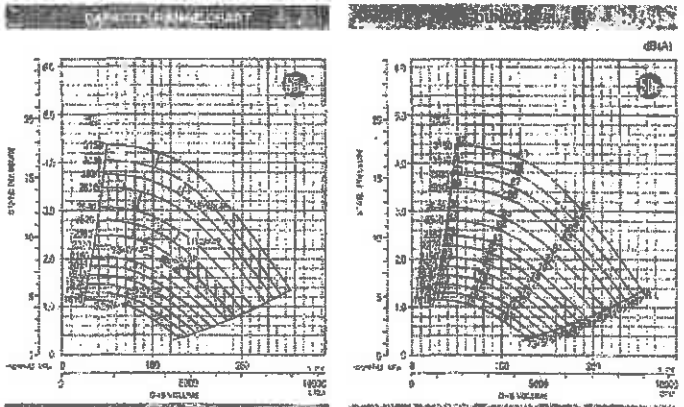
FTE201



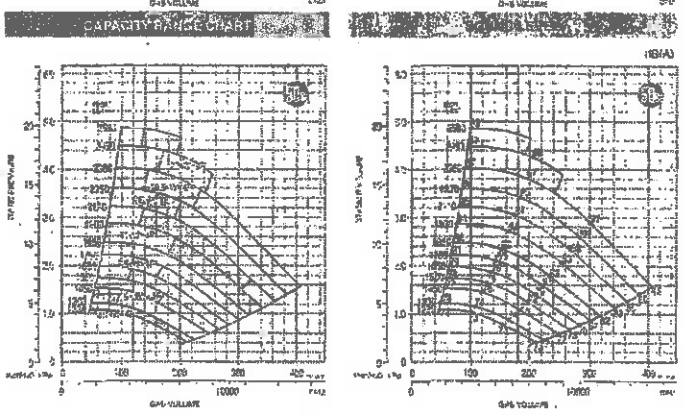
FTE251



FTE301

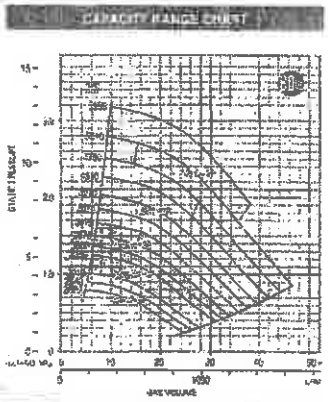


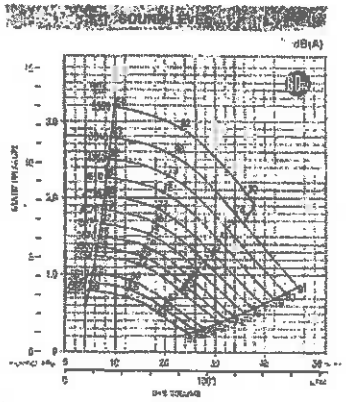
FTE401



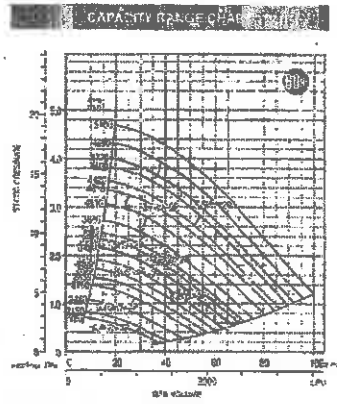
FTE 60Hz CAPACITY RANGE CHART

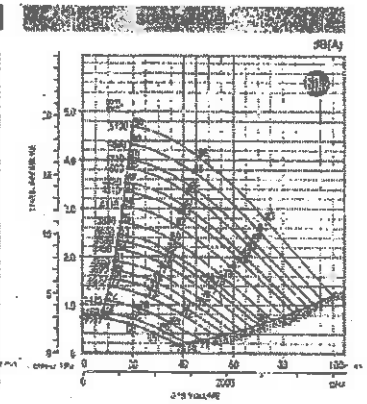
FTE151



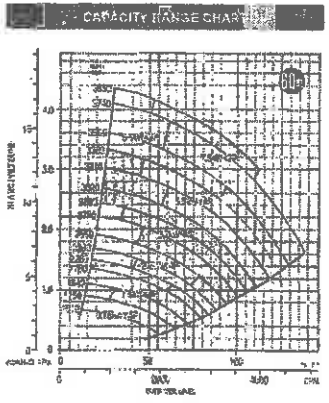


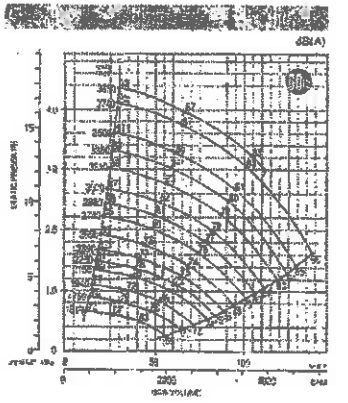
FTE201



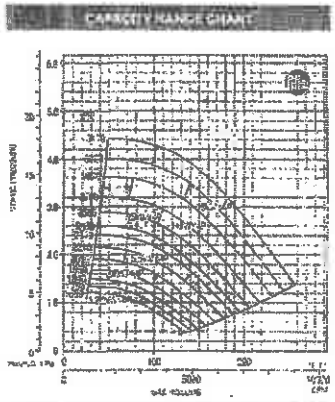


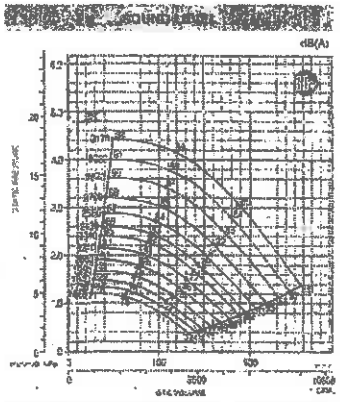
FTE251



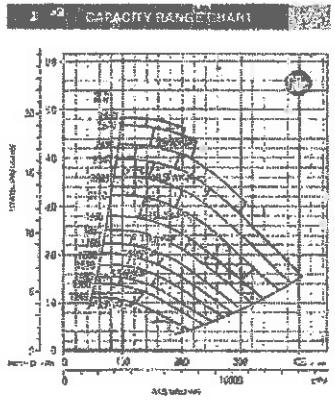


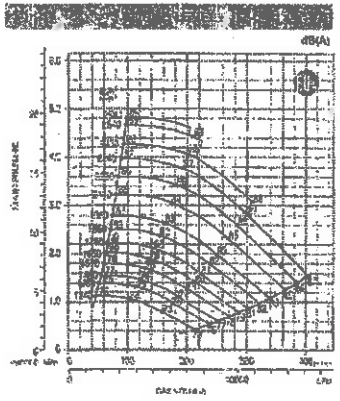
FTE301





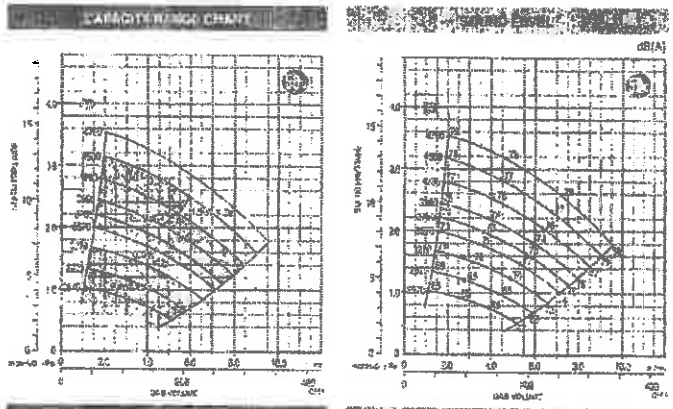
FTE401



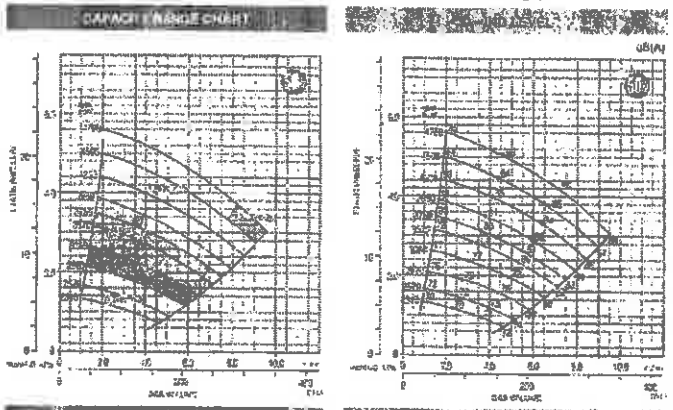


FTB 50Hz CAPACITY RANGE CHART

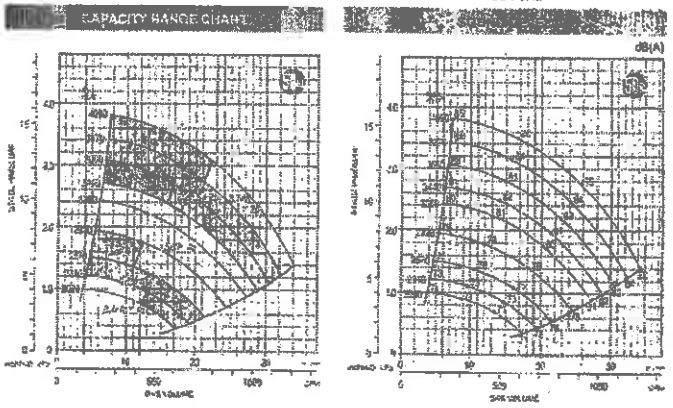
FTB202B



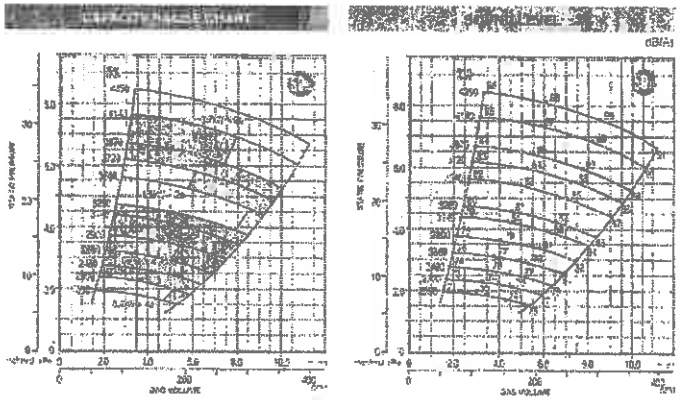
FTB251B



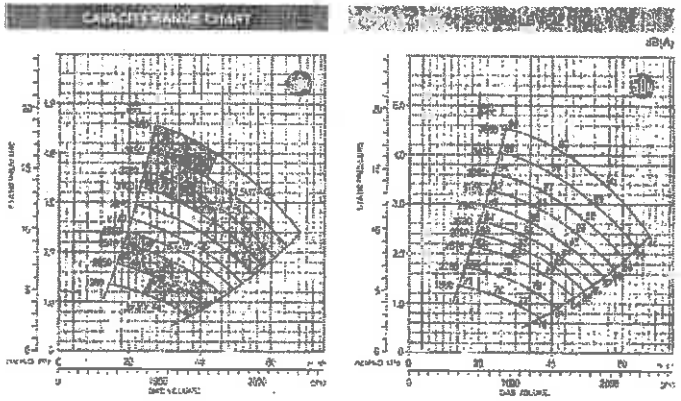
FTB252B



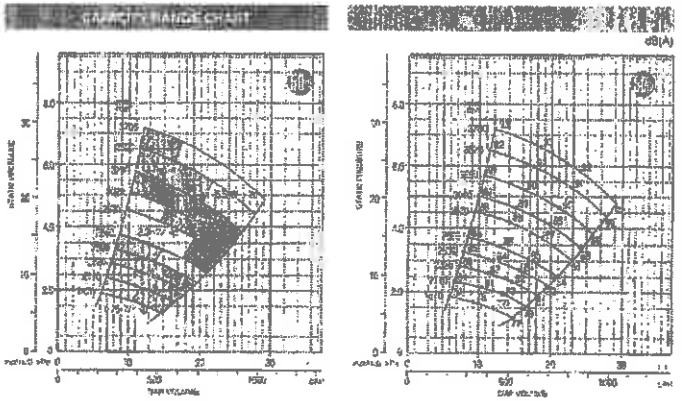
FTB301B



FTB302B

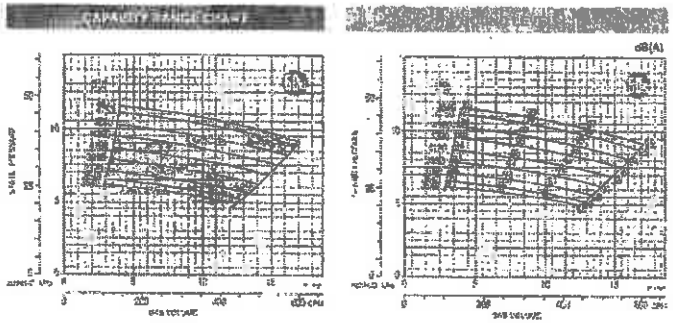


FTB351B

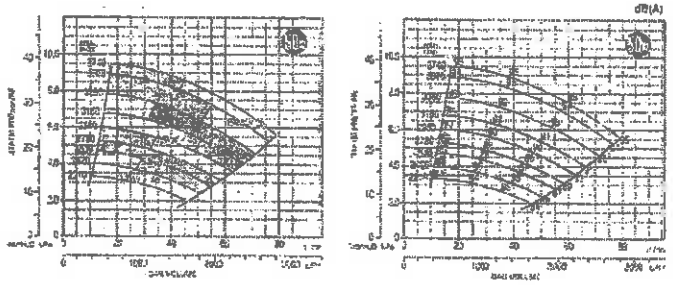


FTB 50Hz CAPACITY RANGE CHART

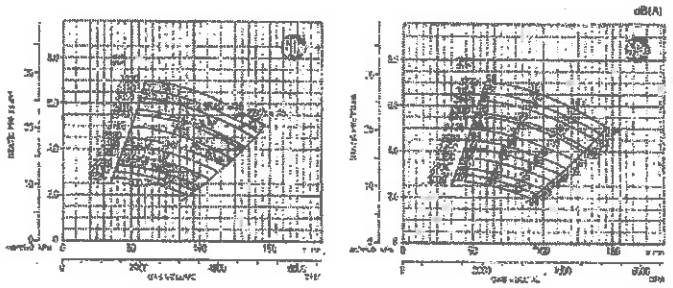
FTB352B



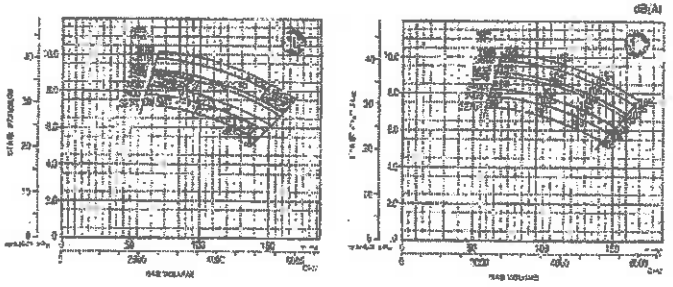
FTB401B



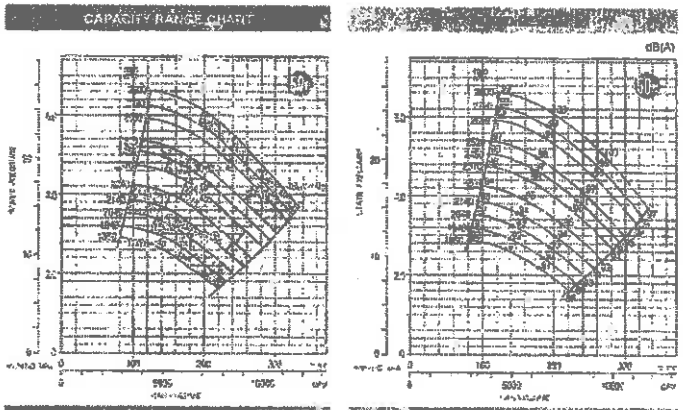
FTB402B



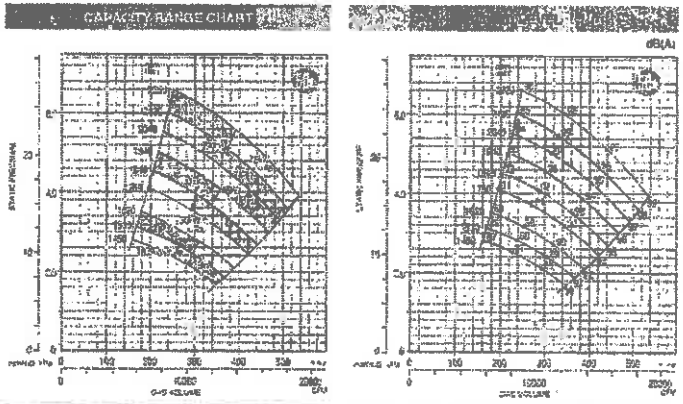
FTB403B



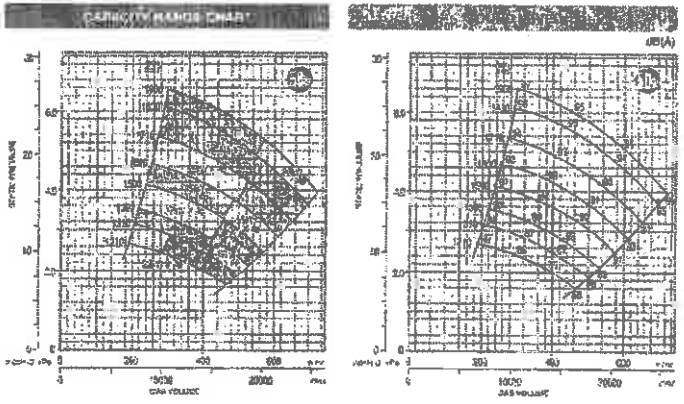
FTB501B



FTB601B

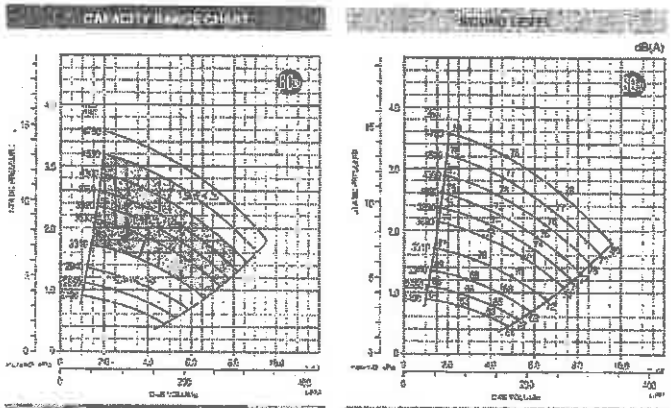


FTB701B

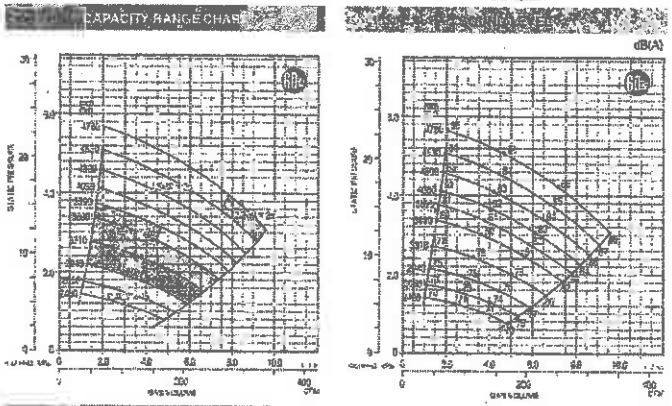


FTB 60Hz CAPACITY RANGE CHART

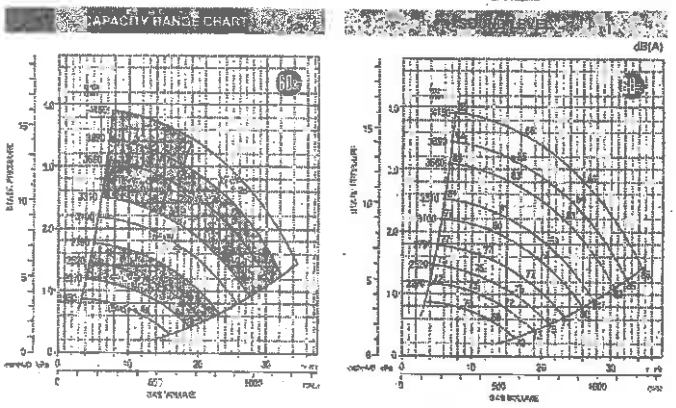
FTB202B



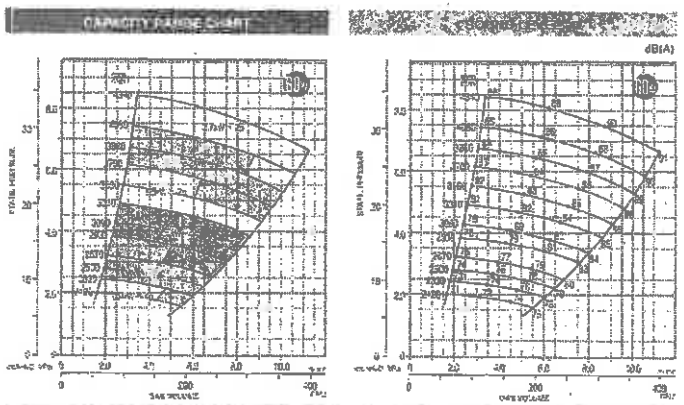
FTB251B



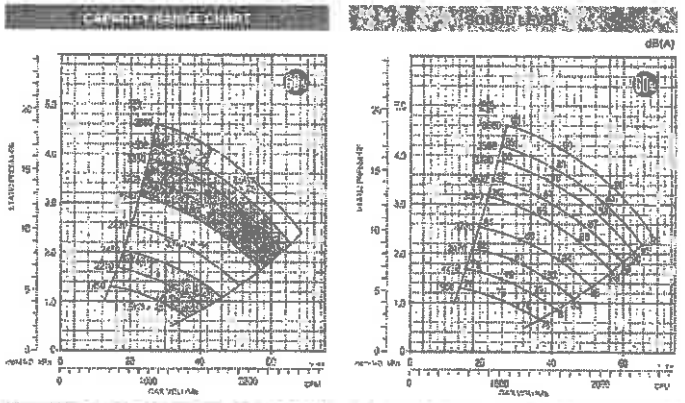
FTB252B



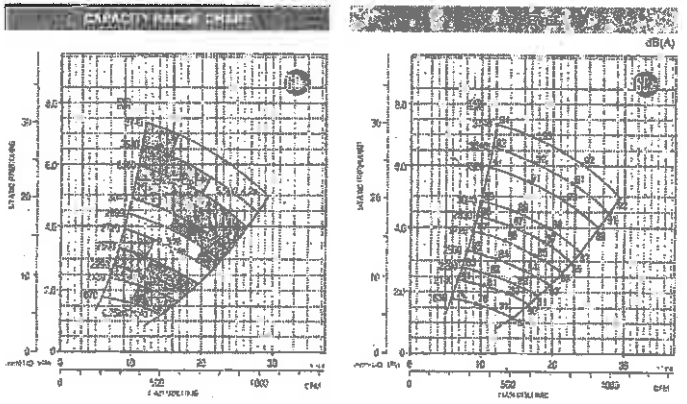
FTB301B



FTB302B

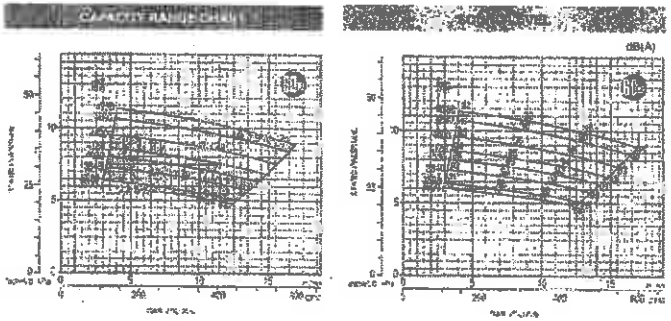


FTB351B

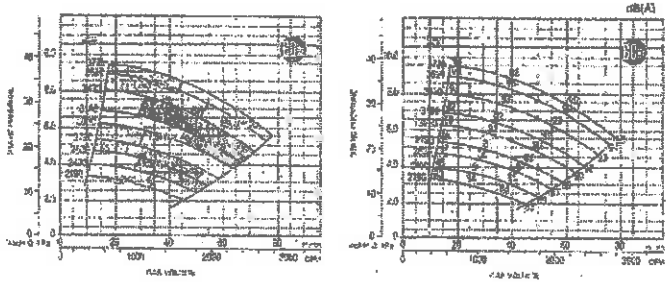


FTB 60Hz CAPACITY RANGE CHART

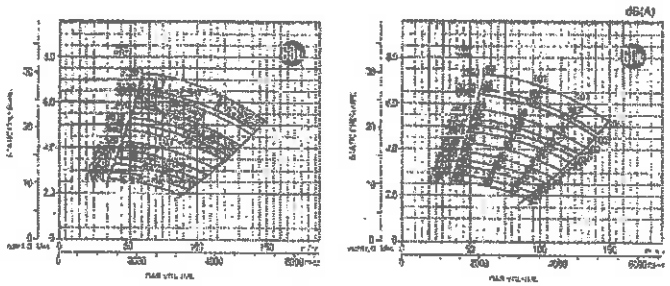
FTB352B



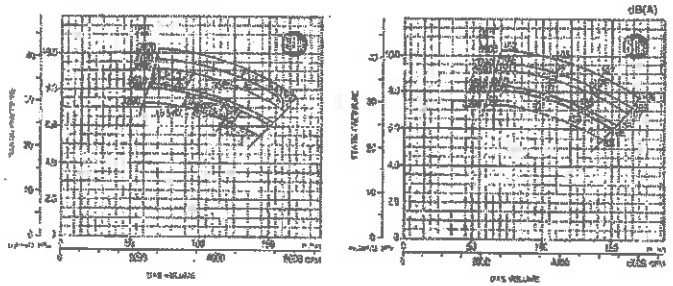
FTB401B



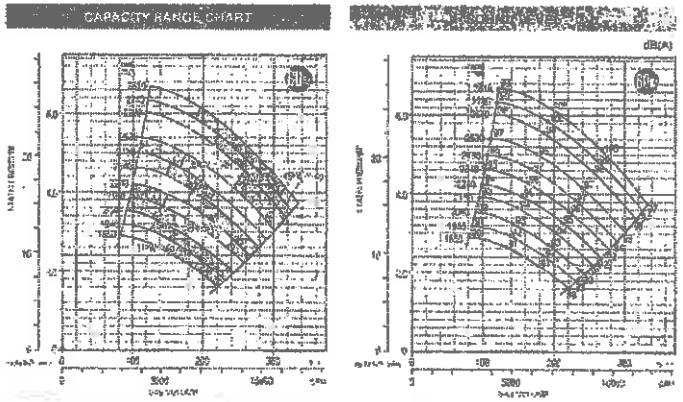
FTB402B



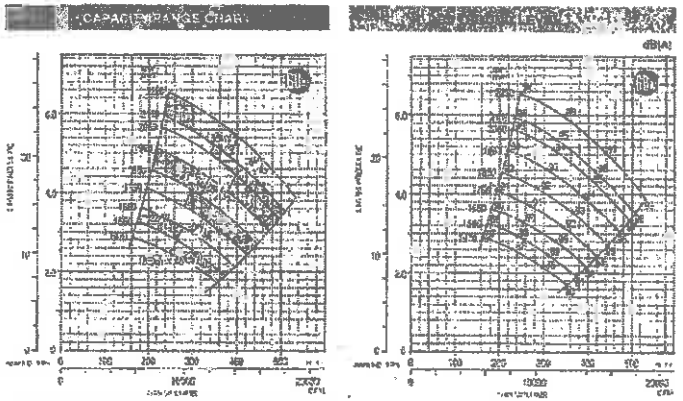
FTB403B



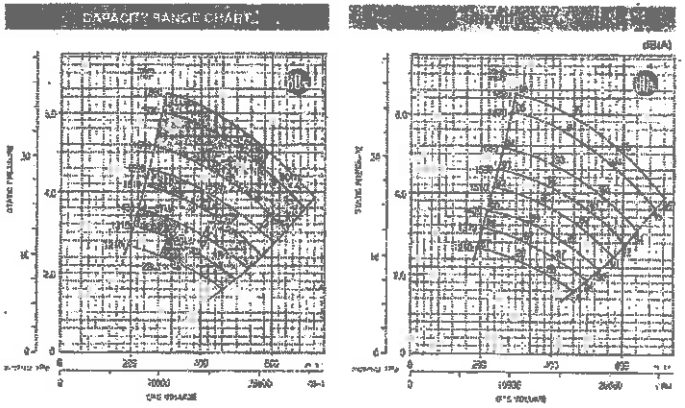
FTB501B



FTB601B

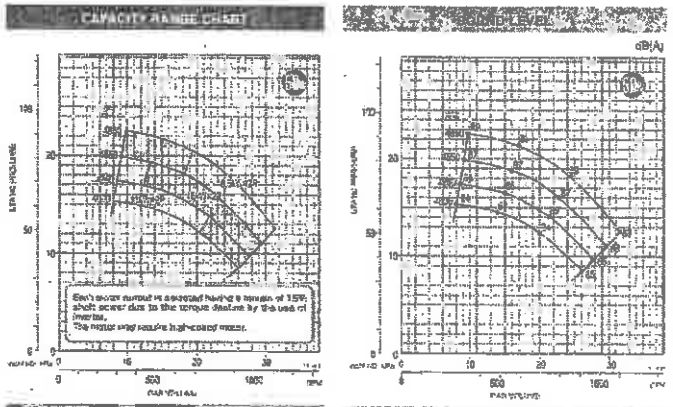


FTB701B

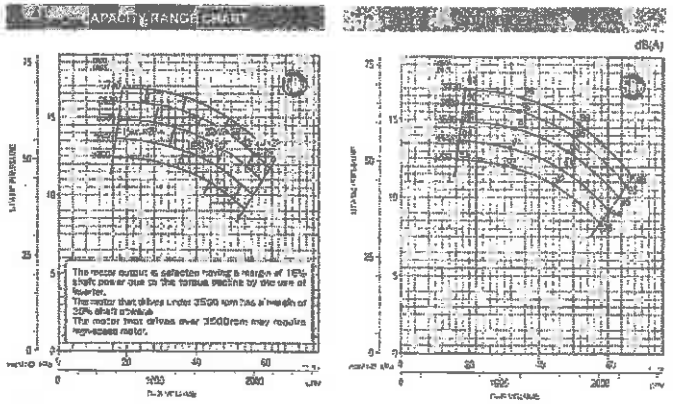


FTW 50Hz CAPACITY RANGE CHART

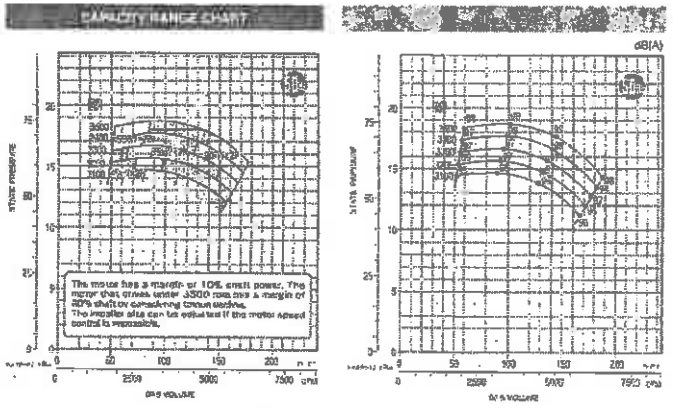
FTW352



FTW401

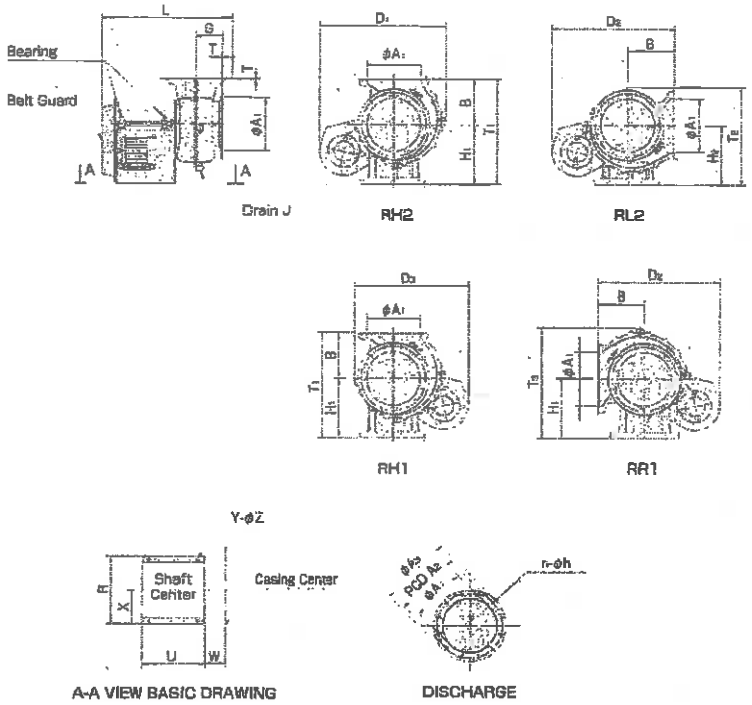


FTW403



DIMENSIONS

CES101·151·201



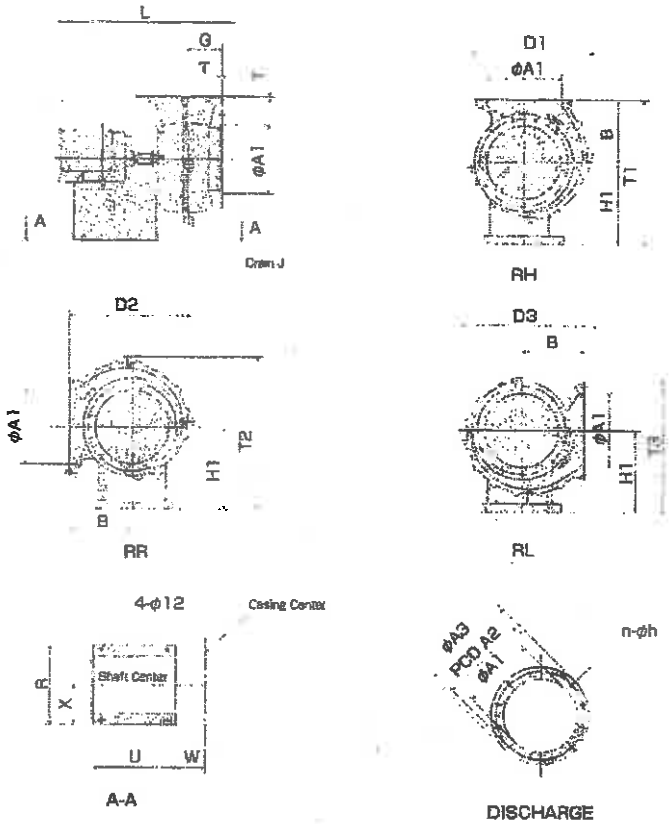
MODEL	CASING BODY											FLANGES					
	L	H1	H2	B	D1	D2	D3	T1	T2	T3	B	ϕA1	PCD A2	ϕA3	e	h	T
CES101	26.9	11.9	11.9	8.1	24.6	23.5	22.1	20.9	18.4	21.9	5.1	10.5	12.7	14.1	12	0.4	0.1
CES151	32.0	12.8	15.0	11.8	25.7	28.9	26.2	24.4	24.4	25.2	8.3	12.5	15.0	19.6	18	0.5	0.1
CES201	35.9	15.7	18.7	15.7	34.1	33.9	29.8	31.5	31.4	31.8	7.8	16.6	19.0	20.5	20	0.6	0.1

MODEL	BASE							BODY WEIGHT(kg)	BEARING
	DRAIN	R	U	W	X	Y	Z	STANDARD	
CES101	PF1/2"	13.2	12.3	3.9	5.6	0.2	0.5	28.7	UCP204
CES151	PF1/2"	16.8	15.0	5.0	8.5	0.2	0.5	35.1	UCP205
CES201	PF1/2"	22.8	15.0	6.3	11.4	0.2	0.5	52.9	UCP206

※BODY WEIGHT : Not Including Motor Weight.

DIMENSIONS

CES101D·151D·201D

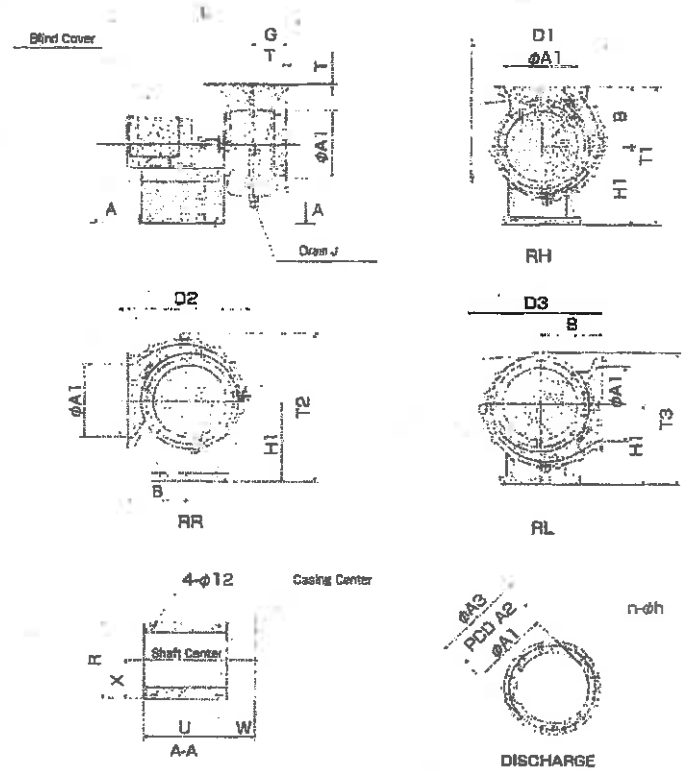


MODEL	CASING BODY									FLANGES					
	L	H1	B	D1	D2	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
CES101D	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CES151D	29.5	[illegible]	[illegible]	27.9	22.3	29.2	27.6	24.4	8.3	12.6	16.0	16.6	16	0.6	0.1
CES201D	33.5	18.7	15.7	27.9	28.9	35.4	30.7	31.4	7.9	18.2	19.0	20.5	20	0.8	0.1

MODEL	BASE				BODY WEIGHT(kg)
	R	U	W	X	STANDARD
CES101D	[illegible]	12.3	3.3	5.7	35.3
CES151D	11.4	12.0	6.6	5.7	41.9
CES201D	[illegible]	14.8	7.3	7.3	72.4

※BODY WEIGHT : Not Including Motor Weight.

CES101V·151V·201V



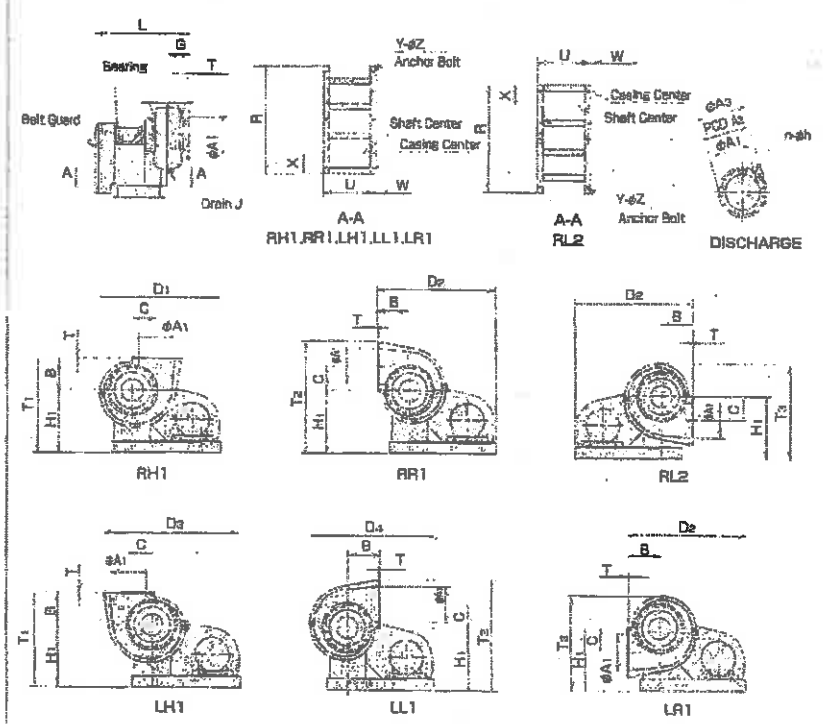
MODEL	CASING BODY									FLANGES					
	L	H1	B	D1	D2	D3	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
CES101V	27.6	11.8	9.1	29.1	19.0	19.3	27.9	21.9	19.4	6.1	10.6	12.7	14.1	12	0.4	0.1
CES151V	31.1	15.0	11.2	32.9	22.5	22.6	29.5	27.8	24.1	8.3	12.6	16.0	16.6	16	0.6	0.1
CES201V	35.6	18.7	15.7	37.9	29.5	29.9	35.4	30.7	31.4	7.9	16.6	19.0	20.5	20	0.8	0.1

MODEL	BASE				BODY WEIGHT(kg)
	R	U	W	X	STANDARD
CES101V	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CES151V	[illegible]	15.0	[illegible]	5.7	30.7
CES201V	14.3	14.4	6.6	7.3	59.2

※BODY WEIGHT : Not Including Motor Weight.

DIMENSIONS

FTF153·203·253/FTE151·201·251

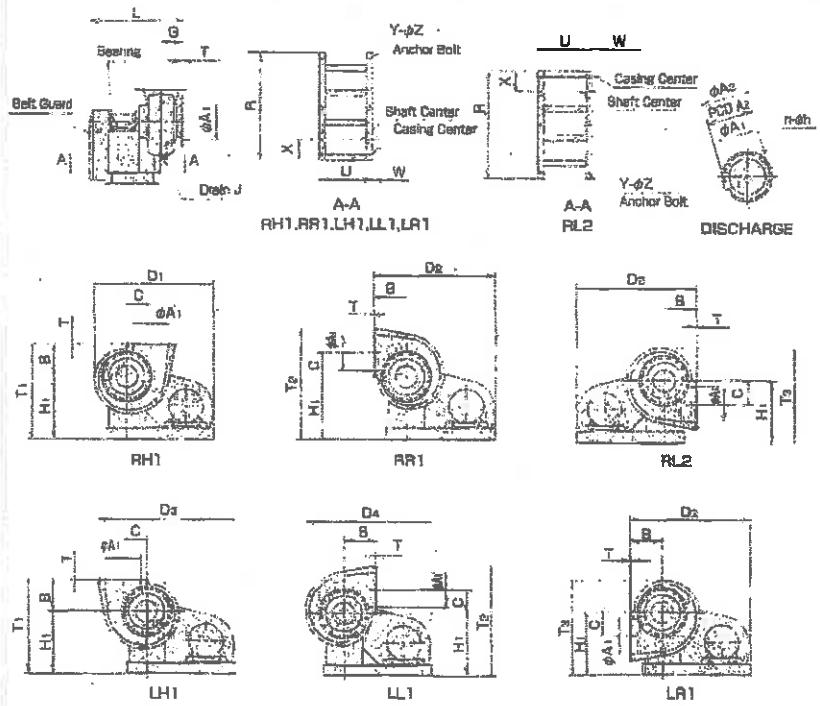


MODEL		CASING BODY												FLANGES					
		L	H1	B	C	D1	D2	D3	D4	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
FTF153	FTE151	33.4	18.7	7.5	8.9	32.0	31.5	35.4	37.3	33.6	27.5	24.1	5.3	8.9	10.4	11.7	12	0.1	0.2
FTF203	FTE201	40.7	22.7	10.6	7.9	39.4	39.4	44.8	41.1	41.3	36.8	31.2	7.1	11.8	13.0	16.5	16	0.5	0.3
FTF253	FTE251	33.2	23.6	13.4	8.8	48.5	48.6	57.4	50.4	37.0	43.7	35.7	8.9	14.8	16.0	20.5	20	0.6	0.3

MODEL		DRAIN *	BASE							BODY WEIGHT(kg)	BEARING	
		J	R	U	W	X	Y	Z		STANDARD	IMPELLER	PULLEY
FTF153	FTE151	PF3/4"	29.1	12.8	1.0	3.6	0.2	0.5		127.8	6306	6306
FTF203	FTE201	PF3/4"	33.4	17.3	0.7	4.7	0.2	0.5		208.5	6308	6307
FTF253	FTE251	PF3/4"	37.3	18.1	0.8	6.1	0.2	0.8		283.2	6309	6307

* BODY WEIGHT : Not Including Motor Weight.

FTF303·403/FTE301·401



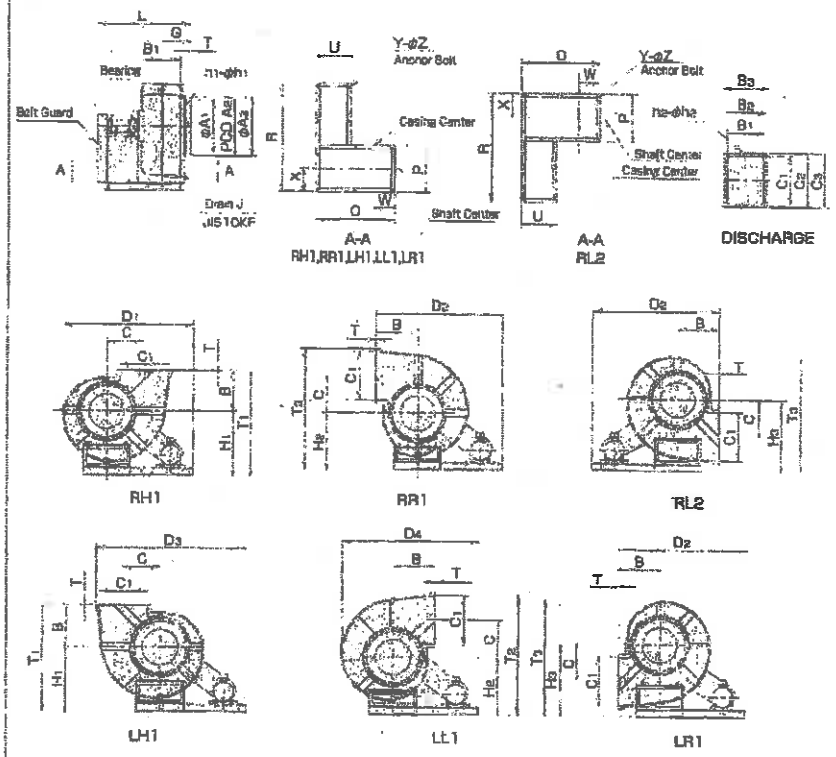
MODEL		CASING BODY												FLANGES					
		L	H1	B	C	D1	D2	D3	D4	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n	h	T
FTF303	FTE301	41.8	28.5	16.7	11.5	56.3	57.1	65.6	60.7	44.3	50.0	44.5	12.8	17.7	21.3	23.3	21	0.6	0.4
FTF403	FTE401	48.4	33.5	22.0	13.7	70.8	68.5	77.2	75.6	54.7	63.0	54.4	18.0	23.5	28.0	27.5	28	0.6	0.4

MODEL		DRAIN	BASE						BODY WEIGHT(kg)	BEARING	
		J	R	U	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF303	FTE301	PF3/4"	51.2	22.0	0.2	7.8	0.2	0.8	[illegible]	6310	6308
FTF403	FTE401	PF3/4"	58.	25.2	0.3	9.1	0.2	0.7	[illegible]	6312	6310

*BODY WEIGHT : Not Including Motor Weight.

DIMENSIONS

FTF503·603·703·803·903

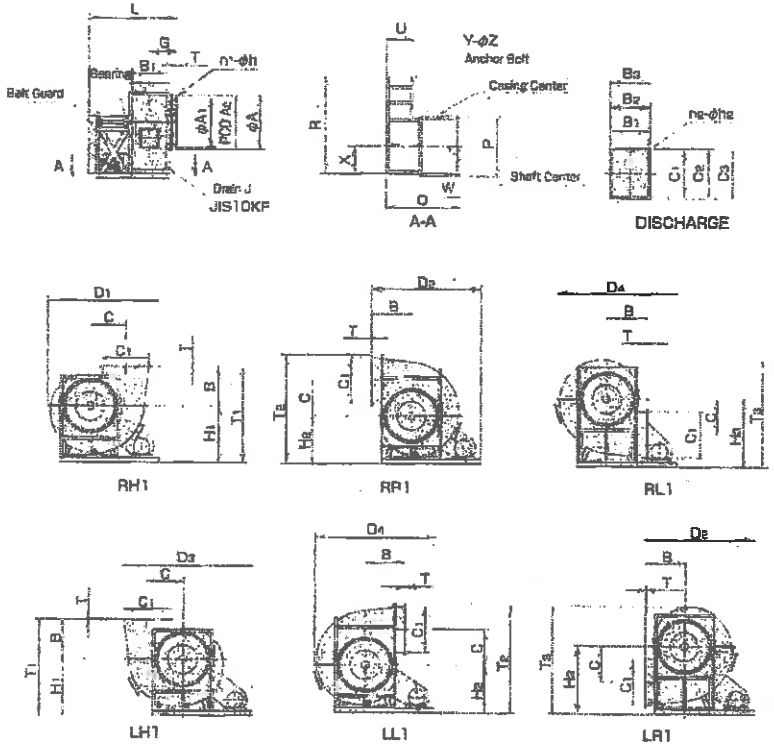


MODEL	CASING BODY															FLANGES				
	L	H1	H2	H3	B	C	D1	D2	D3	D4	T1	T2	T3	T4	G	øA1	PCD A2	øA3	n1	h1
FTF503	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF603	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF703	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF803	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF903	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MODEL	FLANGES								DRAIN	BASE								BODY WEIGHT(kg)	BEARING	
	B1	B2	B3	C	C2	C3	n2	h2	T	J	R	U	O	P	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF503	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF603	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF703	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF803	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF903	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* BODY WEIGHT : Not Including Motor Weight

FTF1201·1401



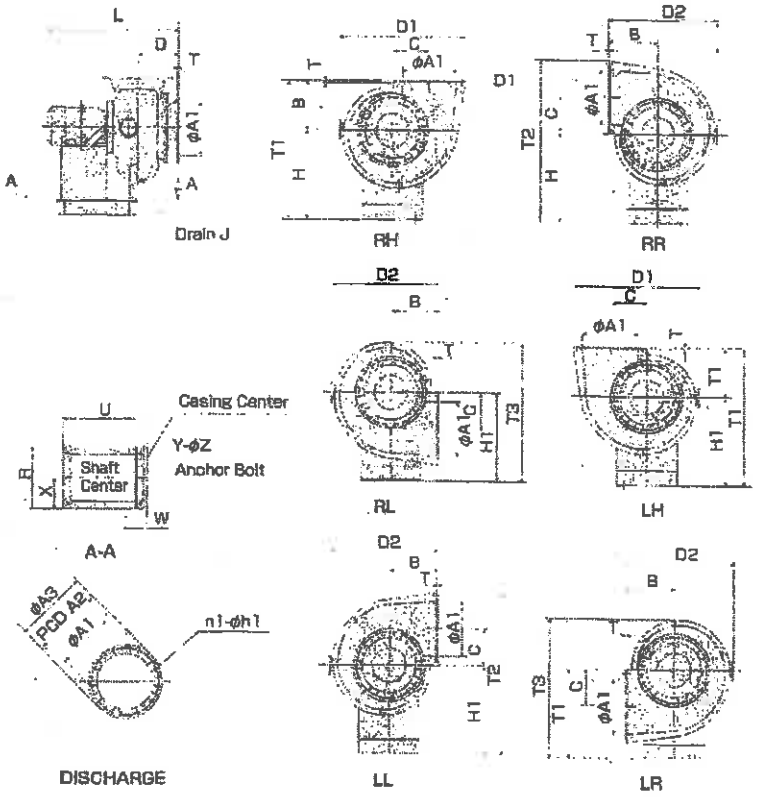
MODEL	CASING BODY															FLANGES				
	L	H1	H2	H3	B	C	D1	D2	D3	D4	T1	T2	T3	T4	G	øA1	PCD A2	øA3	n1	h1
FTF1201	122.4	79.7	84.3	64.0	96.7	50.8	145.4	141.9	174.8	171.3	139.4	83.5	151.8	37.4	7.9	94.9	78.4	72	0.8	
FTF1401	133.8	93.6	78.7	106.2	88.1	89.2	158.7	155.1	192.6	171.3	159.7	93.3	171.8	47.2	8.7	94.9	84.2	84.1	0.8	

MODEL	FLANGES								DRAIN	BASE								BODY WEIGHT(kg)	BEARING	
	B1	B2	B3	C1	C2	C3	n2	h2	T	J	R	U	O	P	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTF1201	48.2	53.1	54.7	84.1	69.4	71.7	72	10	0.7	3	128.3	38.4	104.3	84.6	28.5	42.3	0.4	0.8	[illegible]	6224	6309
FTF1401	58.5	71.9	74.1	77.2	86.2	99.7	84	10	0.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38.1	45.8	0.4	0.8	[illegible]	6224	6309

* BODY WEIGHT : Not Including Motor Weight

DIMENSIONS

FTF253MD·303MD·403MD

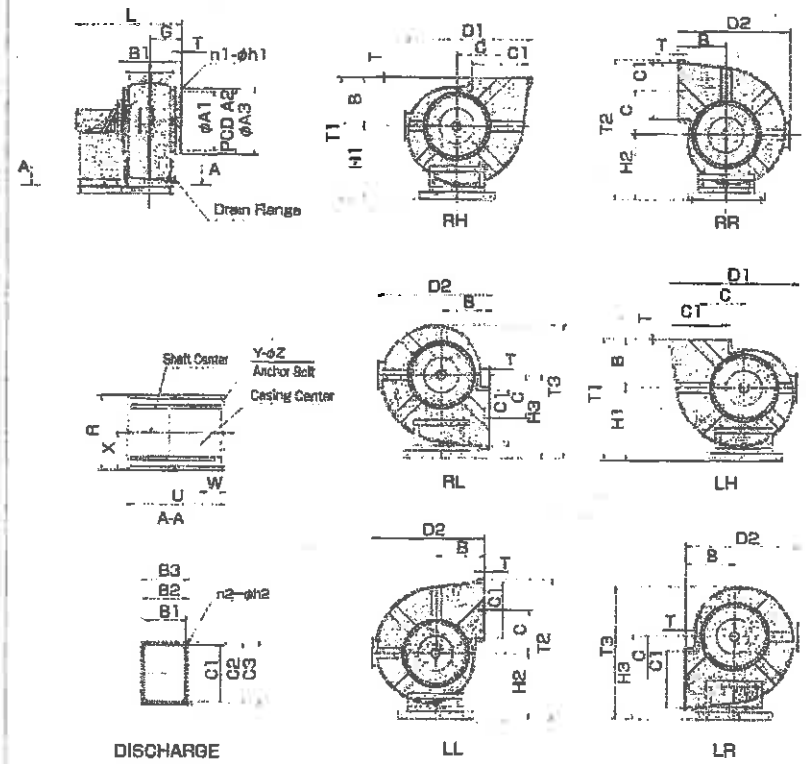


MODEL	CASING BODY										FLANGES					
	L	H1	B	C	D1	D2	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n1	n1	T
FTF253MD	32.3	23.6	13.4	9.5	33.2	22.8	37.0	43.7	36.7	8.9	14.8	30	20.5	20	0.6	0.3
FTF303MD	41.1	24.5	13.7	11.8	49.6	25.1	44.3	52.5	43.5	12.8	17.7	41.3	32.3	16	0.8	0.4
FTF403MD	48.9	33.5	20.2	15.7	58.9	42.8	54.3	62.5	54.4	16.0	23.8	28.0	27.5	28	0.6	0.4

MODEL	BASE							BODY WEIGHT(kg)
	J	R	U	W	X	Y	Z	STANDARD
FTF253MD	[illegible]	18.9	51.7	0.8	8.6	0.3	0.6	180.8
FTF303MD	[illegible]	15.7	39.5	0.3	7.8	0.2	0.5	300.9
FTF403MD	[illegible]	23.8	61.4	0.8	11.4	0.2	0.7	416.7

*BODY WEIGHT : Not including Motor Weight.

FTF503MD·603MD·703MD·803MD



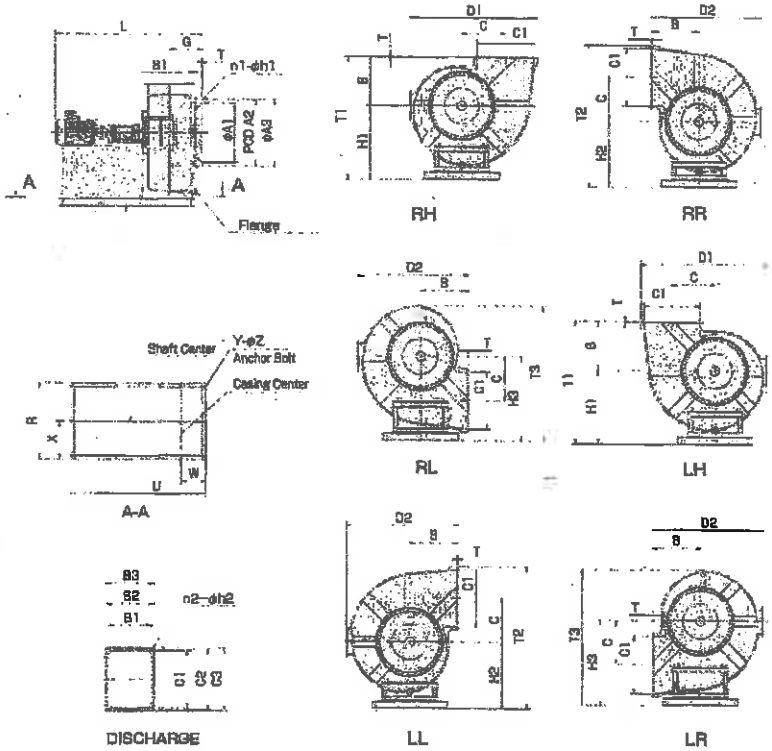
MODEL	CASING BODY												FLANGES				
	L	H1	H2	H3	B	C	D1	D2	T1	T2	T3	G	ϕA1	PCD A2	ϕA3	n1	n1
FTF503MD	69.6	37.4	37.4	41.9	50.6	41.2	83.2	55.3	51.0	74.0	63.1	17.7	29.5	31.9	38.5	32	0.5
FTF603MD	75.0	43.3	43.3	51.2	28.3	35.4	78.2	65.8	71.1	87.0	83.7	12.7	35.4	38.8	47.2	40	0.8
FTF703MD	79.1	51.2	45.3	57.1	33.1	35.4	87.2	76.[illegible]	84.3	98.5	91.3	22.5	41.5	44.6	45.1	36	0.6
FTF803MD	84.1	57.1	57.2	65.3	37.8	33.8	99.2	87.0	91.3	109.4	103.2	25.8	47.2	50.4	52.3	48	0.8

MODEL	FLANGES									DRAIN	BASE						BODY WEIGHT(kg)
	B1	B2	B3	C1	C2	C3	n1	n2	T	J	R	U	W	X	Y	Z	STANDARD
FTF503MD	40.2	29.4	24.6	27.8	20.1	31.9	32	0.8	0.5	1.1/2	41.2	59.1	13.7	20.7	0.3	0.7	881.2
FTF603MD	34.6	37.6	29.5	33.1	35.8	37.8	40	0.8	0.5	1.1/2	7.8	59.1	17.3	23.6	0.3	0.7	1[illegible]6.9
FTF703MD	28.7	28.1	33.5	38.6	21.5	43.3	49	0.8	0.5	1.1/2	33.1	72.8	17.3	25.6	0.3	0.7	2160.8
FTF803MD	22.7	32.9	37.4	44.1	16.9	47.6	50	0.6	0.5	2	53.1	79.6	19.3	29.5	0.3	0.7	2151.7

*BODY WEIGHT : Not including Motor Weight.

DIMENSIONS

FTF503MC·603MC·703MC·803MC

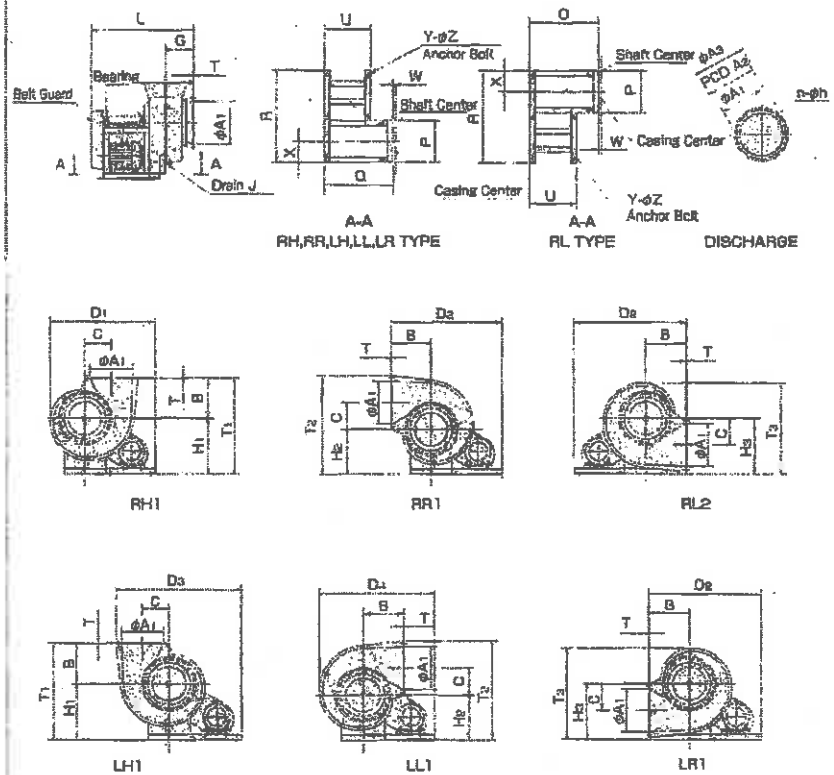


MODEL	CASING BODY												FLANGES				
	L	H1	H2	H3	B	C	D1	D2	T1	T2	T3	G	φA1	PCD A2	φA3	n1	n2
FTF503MC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF603MC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FTF703MC	105.1	51.2	48.2	57.1	33	20.5	87.2	78.4	54.2	60.5	91.7	22.9	41.3	44.5	46.1	44	0.0
FTF803MC	113.8	57.1	51.2	65.5	37.2	33.8	98.2	87.0	94.2	139.4	103.6	25.8	47.2	50.1	52.0	48	0.6

MODEL	FLANGES									DRAIN	BASE							BODY WEIGHT (kg)*	BEARING	
	S1	S2	S3	D1	D2	D3	n1	n2	T	J	R	U	W	X	Y	Z		STANDARD	IMPELLER	PULLEY
FTF503MC	23.5	23.4	24.6	27.8	29.1	31.2	39	0.5	0.6	[illegible]	26.4	78.8	12.9	17.7	0.3	0.7		357.1	6315	6013
FTF603MC	24.6	27.8	28.5	34.1	35.6	37.8	40	0.5	0.5	[illegible]	43.3	82.7	15.5	21.7	0.3	0.7		1756.0	6315	6313
FTF703MC	28.7	32.3	33.5	39.8	41.5	43.5	46	0.6	0.8	[illegible]	51.2	98.4	17.3	25.8	0.5	0.8		3173.5	6320	6316
FTF803MC	32.7	35.9	37.6	44.1	45.9	48.6	50	0.9	0.9	2	59.1	101.9	18.3	28.5	0.3	0.9		3738.5	6320	6316

*BODY WEIGHT : Not including Motor Weight.

NSF302·402



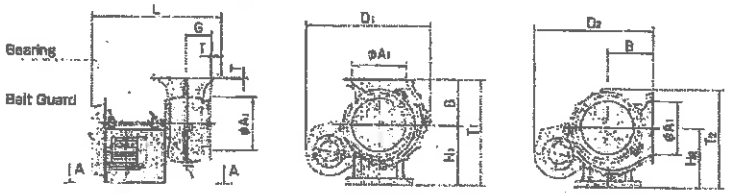
MODEL	CASING BODY														FLANGES					
	L	H	H2	H3	B	C	D1	D2	D3	D4	T1	T2	T3	G	φA1	PCD A2	φA3	n	n	T
NSF302	45.0	20.4	21.3	32.4	19.0	12.5	50.0	32.4	26.7	50.4	25.3	43.5	44.5	13.0	20.1	23.2	25.2	24	0.0	0.25
NSF402	55.1	24.3	29.5	34.3	22.8	17.7	60.4	57.9	36.5	57.8	57.1	61.0	59.0	15.7	23.6	26.0	27.9	28	0.6	0.25

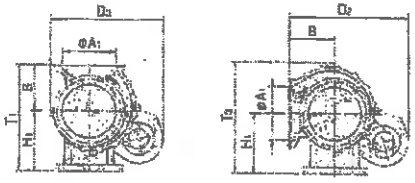
MODEL	DRAIN	BASE									BODY WEIGHT (kg)*	BEARING
	J	R	U	O	P	W	X	Y	Z		STANDARD	
NSF302	[illegible]	43.3	21.3	31.5	19.7	14	9.8	0.3	1.0		25.5	UC205T
NSF402	[illegible]	47.9	22.8	35.0	[illegible]	16	[illegible]	0.3	[illegible]		[illegible]	UC210T

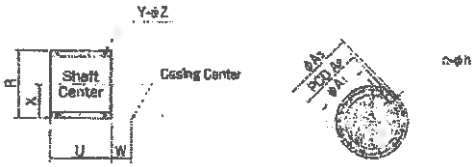
*BODY WEIGHT : No Including Motor Weight.

DIMENSIONS

CTF151·201





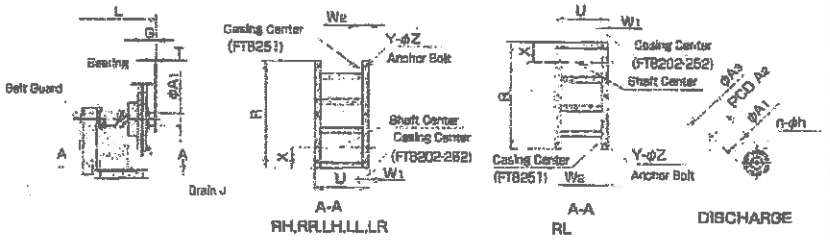


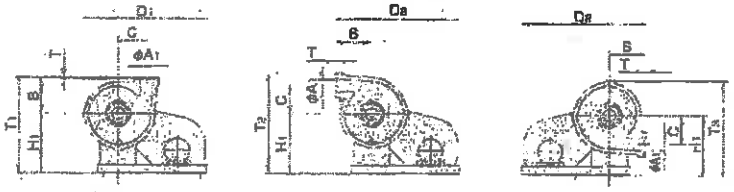
MODEL	CASING BODY											FLANGES					
	L	H1	H2	B	D1	D2	D3	T1	T2	T3	G	φA1	PCD A2	φA3	n	h	T
CTF151	39.0	12.5	15.0	11.8	26.7	23.9	28.5	24.4	24.4	25.2	6.5	12.6	15.0	16.5	16	0.5	0.1
CTF201	35.8	16.7	19.7	15.7	34.1	33.9	38.8	31.5	31.4	31.8	7.9	16.8	19.0	20.5	20	0.5	0.1

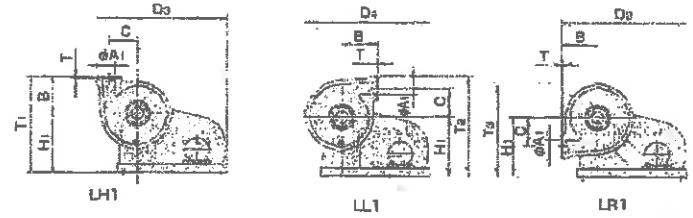
MODEL	BASE							BODY WEIGHT(kg)	BEARING
	DRAIN	R	U	W	X	Y	Z	STANDARD	
CTF151	PF1/2	18.9	16.0	2.0	8.6	0.2	0.5	59.5	UCF205
CTF201	PF1/2	22.8	16.0	5.5	11.4	0.2	0.5	98.2	UCF206

※BODY WEIGHT : Not including Motor Weight.

FTB202B·251B·252B







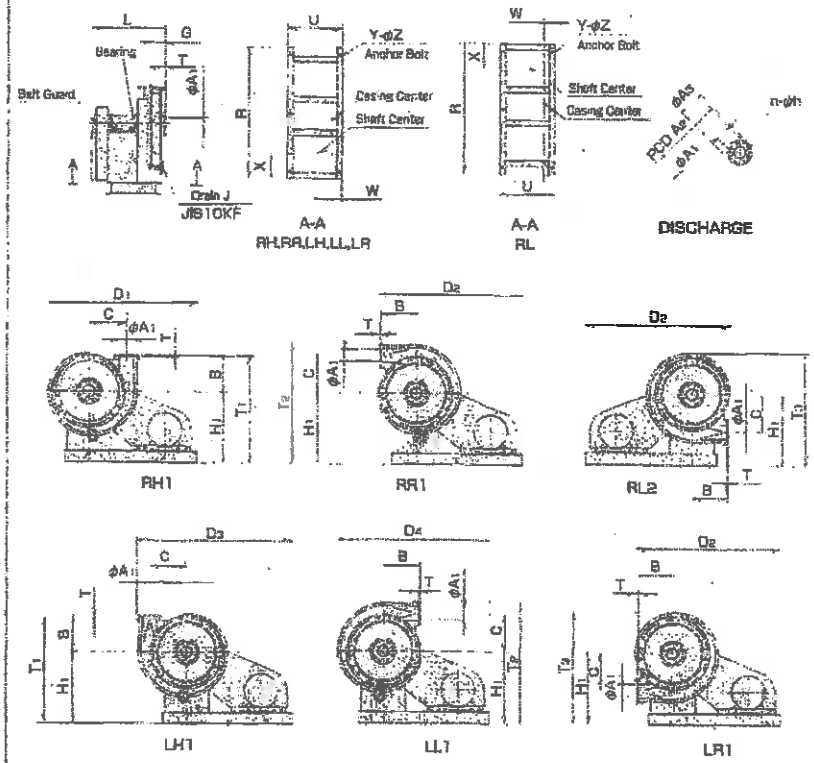
MODEL	CASING BODY											FLANGES					
	L	H1	B	G	D1	D2	D3	D4	T1	T2	T3	φA1	PCD A2	φA3	n	h	T
FTB202B	20.5	16.7	17.2	7.9	34.1	37.8	44.2	34.4	28.0	26.0	26.9	16.8	19.8	22.5	4	0.7	0.4
FTB251B	24.4	21.7	11.6	8.4	42.2	45.0	52.2	40.9	32.5	34.2	36.1	6.3	35	0.9	8.3	5	0.7	0.4
FTB252B	28.3	25.7	12.6	11.2	42.3	41.3	46.5	43.8	33.3	36.4	34.2	8.2	7.3	11.4	13.0	12	0.8	0.8

MODEL	DRAIN	BASE							BODY WEIGHT(kg)	BEARING	
	J	R	U	W1	W2	X	Y	Z	STANDARD	SPROCKET	PULLEY
FTB202B	PF1/2	22.8	17.8	0.1	-	4.5	3.2	0.5	101.3	6206	6306
FTB251B	PF1/2	28.4	21.2	-	5.5	4.7	3.2	0.5	196.2	6306	6307
FTB252B	PF1/2	35.4	17.8	0.2	-	4.7	3.2	0.5	237.3	6306	6307

※BODY WEIGHT : Not including Motor Weight.

DIMENSIONS

FTB301B·302B·351B·352B·401B

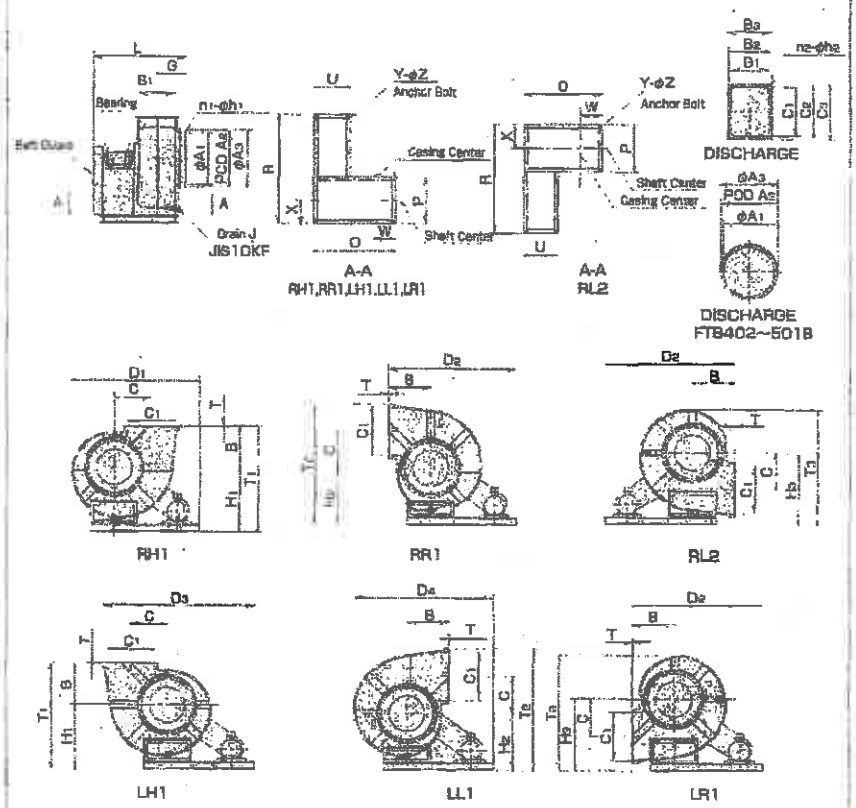


MODEL	CASING BODY														FLANGES				
	L	H1	B	C	D1	D2	D3	D4	T1	T2	T3	B	φA1	PCD A2	φA3	n	h	T
FTB301B	24.0	21.6	11.8	12.4	46.7	47.7	51.8	60.0	39.4	40.2	37.1	4.7	3.9	7.9	5.7	8	1.7	3.4
FTB302B	35.4	26.3	13.8	13.7	56.2	55.1	62.8	69.2	49.3	50.1	43.4	9.8	2.8	14.0	15.7	12	1.0	2.6
FTB351B	23.5	28.3	15.7	14.2	56.7	57.1	62.0	69.1	54.3	46.2	43.3	5.9	7.9	11.8	13.0	12	1.6	3.6
FTB352B	29.5	28.5	15.6	14.5	65.8	65.7	60.8	68.6	48.8	48.0	44.1	5.9	4.9	23.6	9.8	8	2.9	2.8
FTB401B	31.7	28.2	15.7	16.0	52.5	67.5	66.1	60.0	54.3	53.3	46.1	7.5	0.8	14.0	15.7	12	1.0	3.6

MODEL	DRAIN	BASE							BODY WEIGHT(kg)	BEARING	
	J	R	U	W	X	Y	Z		STANDARD	IMPELLER	PULLEY
FTB301B	3/4"	49.3	18.1	3.5	8.1	0.2	0.6		242.6	6307	6307
FTB302B	1"	51.2	22.0	5.0	7.9	0.2	0.6		333.7	6310	6308
FTB351B	1"	51.2	22.0	5.0	7.9	0.2	0.6		323.7	6310	6308
FTB352B	1"	51.2	22.0	5.0	7.9	0.2	0.6		394.7	6310	6309
FTB401B	1"	51.2	22.0	5.0	7.9	0.2	0.6		449.2	6310	6309

*BODY WEIGHT : Not Including Motor Weight.

FTB402B·403B·501B·601B·701B



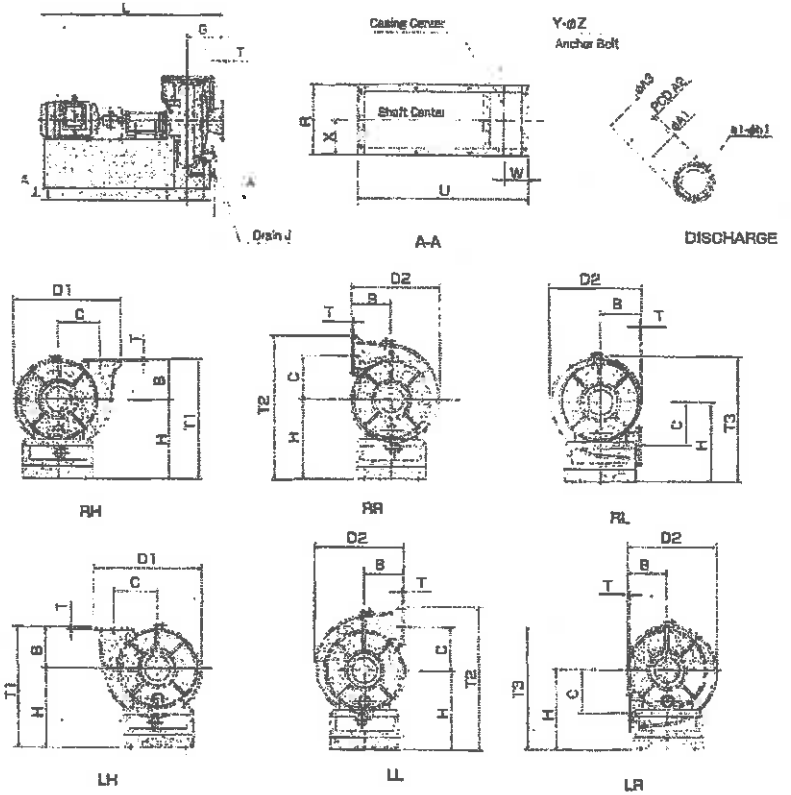
MODEL	CASING BODY														FLANGES				
	L	H1	H2	H3	B	C	D1	D2	D3	D4	T1	T2	T3	B	φA1	PCD A2	φA3	n1	h1
FTB402B	47.2	35.4	35.4	35.4	19.7	21.5	73.2	69.9	81.2	70.8	55.1	69.5	58.3	11.8	13.7	17.5	19.3	16	1.0
FTB403B	47.6	34.4	35.1	35.1	19.7	21.5	72.2	69.9	81.2	70.8	55.1	68.5	52.5	11.8	13.2	17.8	19.3	16	1.0
FTB501B	57.5	37.4	37.4	43.3	21.7	23.6	72.7	76.8	90.0	94.1	90.1	74.3	67.9	15.7	19.7	24.4	26.8	20	1.2
FTB601B	64.0	45.3	46.3	51.2	25.6	28.9	98.8	93.5	112.0	103.7	70.9	85.4	81.6	17.7	23.6	25.6	28.3	24	0.6
FTB701B	67.2	51.2	53.1	57.1	29.5	34.9	103.1	67.4	113.9	108.4	86.7	102.8	98.3	16.7	27.6	30.7	32.3	32	0.8

MODEL	FLANGES									DRAIN	BASE								BODY WEIGHT(kg)	BEARING	
	B1	B2	B3	C1	C2	C3	n2	h2	T	J	R	U	O	P	W	X	Y	Z	STANDARD	IMPELLER	PULLEY
FTB402B	-	-	-	-	-	-	-	-	2.5	2"	63.0	23.6	35.4	23.6	7.9	12.6	0.3	0.7	637.9	6315	6313
FTB403B	-	-	-	-	-	-	-	-	2.5	2"	63.0	23.6	35.4	23.6	7.9	12.6	0.3	0.7	677.9	6315	6313
FTB501B	-	-	-	-	-	-	-	-	2.5	2"	69.3	25.6	43.7	27.6	11.0	13.8	0.3	0.7	992.2	6315	6313
FTB601B	19.7	32.2	34.1	23.2	26.5	29.2	30	0.8	2.5	2"	98.6	27.5	53.2	37.4	13.8	16.7	0.3	0.8	1645.7	6320	6316
FTB701B	23.6	36.6	38.3	27.5	33.7	36.3	35	0.8	2.5	2"	98.6	27.8	57.9	37.4	15.6	19.7	0.4	0.8	2029.6	6320	6318

*BODY WEIGHT : Not Including Motor Weight.

DIMENSIONS

FTW



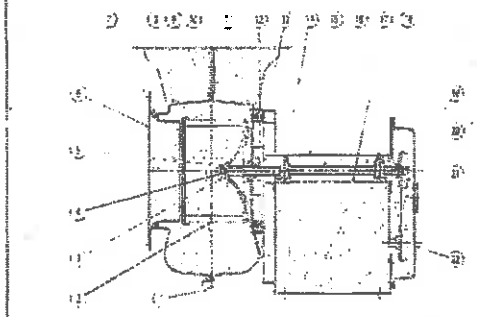
MODEL	CASING BODY										DRAIN	BEARING	
	L	A	B	C	D1	D2	T1	T2	T3	G	J	IMPELLER	MOTOR
FTW352	52.0	29.5	13.8	14.9	35.1	31.0	42.3	48.0	44.1	11.5	1"	6E.0	6D/E
FTW401	72.2	31.5	15.7	18.8	42.4	35.7	47.2	56.3	49.1	14.2	1"	6F/G	6F/G
FTW402	68.5	37.4	16.7	21.5	54.1	44.9	57.1	64.5	60.4	16.5	2"	6H/J	6H/J

MODEL	FLANGES						BASE						BODY WEIGHT
	øA1	PCD A2	øA3	n1	n2	T	R	U	W	X	Y	Z	lb
FTW352	4.3	9.5	9.6	8	3.9	0.6	23.6	51.2	8.5	11.8	0.2	0.7	396.1
FTW401	9.5	14.0	15.7	12	1.6	0.8	27.6	65.9	8.0	13.8	0.3	0.7	1,499.4
FTW402	9.5	17.5	14.0	16	1.6	0.8	31.5	75.7	12.	15.7	0.3	0.4	1,654.6

※BODY WEIGHT : Not including Motor weight.

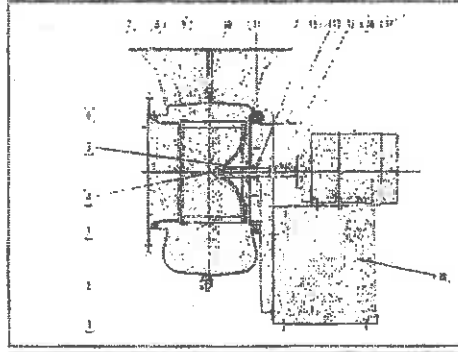
STRUCTURE

CES101·151·201



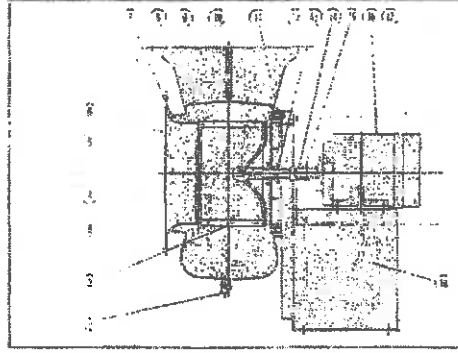
No.	Parts Name	Material	QTY
1	Drain Plug	PE	8
2	Impeller	PP(GF)	1
3	Impeller Key	PP	1
4	Impeller Nut	SUS	1
5	O-Ring	Chloroprene	1
6	Suction Cone	PP(GF)	1
7	Packing	PE	1
8	Casing	PP(GF)	1
9	Casing Bolt	SUS304	Total
10	Casing Gasket	PE	1
11	Oil Seal-rotor	PE	1
12	Drain Nut	Brass	Total
13	Casing Set Bolt	SUS304	Total
14	Bearing	SUS	2
15	Oil Seal Bearing	SUS	1
16	Shaft	SUS	1
17	Key	SS400	1
18	Stopper Washer	Brass	2
19	V-Pulley Key	SUS	1
20	V-Pulley	FC200	Total
21	V-Belt	Rubber	Total
22	Bell Guard	PP	1

CES101D·151D·201D



No.	Parts Name	Material	QTY
1	Drain Plug	PE	8
2	Impeller	PP(GF)	1
3	Impeller Key	SUS	1
4	Impeller Nut	PP	1
5	O-Ring	Chloroprene	1
6	Suction Cone	PP(GF)	1
7	Packing	PE	1
8	Casing	PP(GF)	1
9	Casing Bolt	SUS304	Total
10	Casing Gasket	PE	1
11	Oil Seal-Rotor	PE	1
12	Drain Nut	Copper Pyrite	Total
13	Casing Set Bolt	SUS304	Total
14	Shaft	SUS	1
15	Shaft Set Screw	SUS304	Total
16	Key	SS400	1
17	Shaft	SUS	1
18	Stopper	PE	2
19	Key	SS400	1

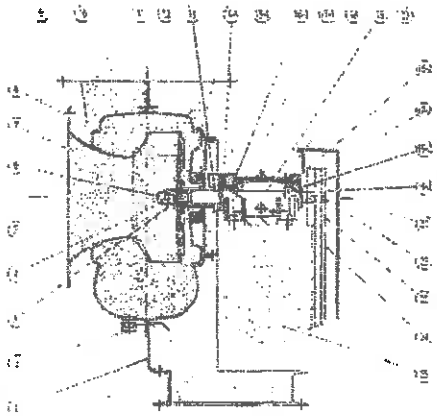
CES101V·151V·201V



No.	Parts Name	Material	QTY
1	Drain Plug	PE	8
2	Impeller	PP(GF)	1
3	Impeller Key	SUS	1
4	Impeller Nut	PP	1
5	O-Ring	Chloroprene	1
6	Suction Cone	PP(GF)	1
7	Packing	PE	1
8	Casing	PP(GF)	1
9	Casing Bolt	SUS304	Total
10	Casing Gasket	PE	1
11	Drain Nut	Copper Pyrite	Total
12	Casing Set Bolt	SUS304	Total
13	Oil Seal-Rotor	PE	1
14	Shaft	SUS	1
15	Shaft Set Screw	SUS304	Total
16	Key	—	1
17	Suction Cover	PP	1
18	Cone	SS400	1

STRUCTURE

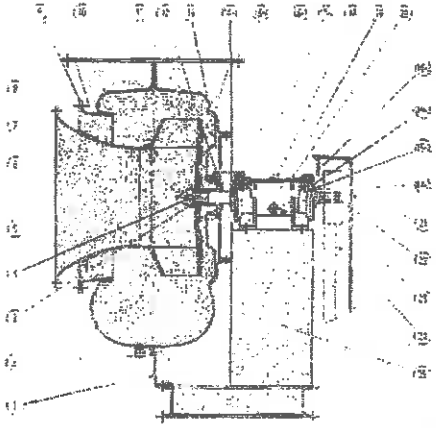
FTF153·203·253/FTE151·201·251



No.	Name of Part	Material	Qty.	Note
1	Casing Support	FCD	1	
2	Drain Plug	FCD	2	
3	Impeller Washer	SS400	1	
4	Impeller Nut	S35C	1	
5	Split Pin	SWRM6	1	
6	Nut Cover	FCD	1	
7	Impeller Key	S45C	1	
8	Impeller	FCD	1	
9	Casing	FCD	1	
10	Casing Gasket	CPT	1	
11	Seal Plate	FC	1	
12	Stand	FCD	1	
13	Oil Separator	NBR	1	
14-1	Lubrication Wick	NBR	1	
14-2	Lubrication Felt	NBR	1	
15-1	Bearing Cover (Front)	FC200	1	
15-2	Bearing Cover (Rear)	FC200	1	
16-1	Bearing (Front)	SKF	1	
16-2	Bearing (Rear)	SKF	1	
17-1	Water Seal Ring (Front)	SS400	Total	
17-2	Water Seal Ring (Rear)	SS400	Total	
18	Oil Supply Plug	FCD	1	
19	Shaft	S35C	1	
20	Bearing Housing	FC200	1	
21	Belt Guard	FCD	1	
22	V-Pulley Key	S45C	1	
23	V-Pulley	—	1	
24	V-Belt	—	Total	
25	Bracket	SS400	1	

Note: Fig. shows plug on RL and LR types. Number of bolts may vary from that shown in the drawing.

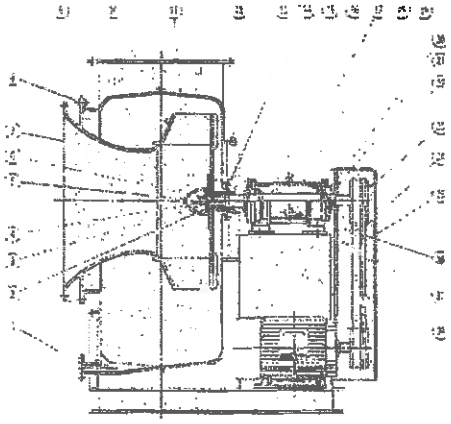
FTF303·403/FTE301·401



No.	Name of Part	Material	Qty.
1	Casing Support	FCD	1
2-1	Drain Plug	FCD	2
3	Impeller Washer	SS400	1
4	Impeller Nut	S35C	1
5-1	Split Pin	SWRM6	1
6	Nut Cover	FCD	1
7	Impeller Key	S45C	1
8	Impeller	FCD	1
9	Casing	FCD	1
10	Casing Gasket	CPT	1
11	Seal Plate	FC	1
12	Stand	FCD	1
13	Oil Separator	NBR	1
14-1	Lubrication Wick	NBR	1
14-2	Lubrication Felt	NBR	1
15-1	Bearing Cover (Front)	FC200	1
15-2	Bearing Cover (Rear)	FC200	1
16-1	Bearing (Front)	SKF	1
16-2	Bearing (Rear)	SKF	1
17-1	Water Seal Ring (Front)	SS400	Total
17-2	Water Seal Ring (Rear)	SS400	Total
18	Oil Supply Plug	FCD	1
19	Shaft	S35C	1
20	Bearing Housing	FC200	1
21	Belt Guard	FCD	1
22	V-Pulley Key	S45C	1
23	V-Pulley	—	Total
24	V-Belt	—	Total
25	Bracket	SS400	1

Note: Fig. shows plug on RL and LR types. Number of bolts may vary from that shown in the drawing.

FTF503·603·703·803·903

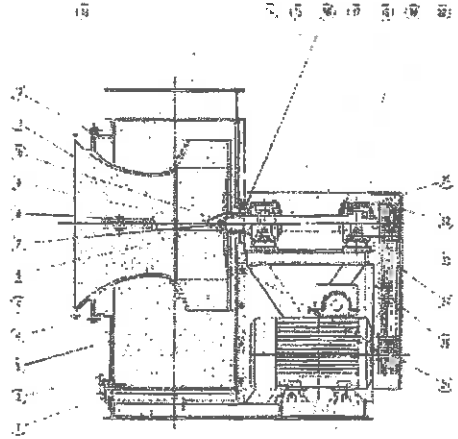


No.	Name of Part	Material	Qty.
1	Drain Plug	FCD	1
2	Impeller Washer	SS400	1
3	Impeller Nut	S35C	1
4	Split Pin	SWRM6	1
5	Nut Cover	FCD	1
6	Impeller Key	S45C	1
7	Impeller	FCD	1
8	Casing Cover	FCD	1
9	Casing Cover Bolt	SUS304	Total
10	Impeller	FCD	1
11	Casing	FCD	1
12	Casing Set Bolt	SUS304	Total
13	Seal Plate	FC	1
14	Stand	FCD	1
15	Oil Separator	NBR	1
16	Shaft	S45C	1
17	Oil Supply Plug	FCD	1
18	Bearing Housing	FC200	1
19	Bearing	SKF	2
20	Impeller Fixed Washer	SS400	1
21	Bearing Cover	FC200	2
22	O-Ring	NBR	2
23	V-Pulley	FC200	1
24	V-Belt	Rubber	Total
25	Belt Guard	FCD	1
26	Cover	FC	1
27	Oil Gauge	Glass	1
28	Bracket	SS400	1

Note: Fig. shows plug on RL and LR types. Number of bolts may vary from that shown in the drawing.

Notes for FTF903: The drawing is from one type, one for Belt guard 2-piece of SS400.

FTF1201·1401

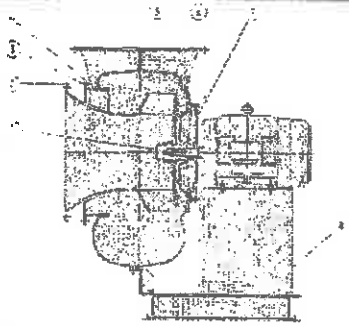


No.	Name of Part	Material	Qty.
1	Casing Support	SS400	1/4
2	Drain Plug	FCD	1
3	Casing	FCD	1
4	Impeller	FCD	1
5	Impeller Washer	SS400	1
6	Impeller Nut	S45C	1
7	Split Pin	SWRM6	1
8	Casing Bolt Bolt	SUS304	Total
9	Nut Cover	FCD	1
10	Impeller Nut	S35C	1
11	Casing Cover	FCD	1
12	Casing Cover Bolt	SUS304	Total
13	Casing Gasket	CPT	1
14	Seal Plate	FC	1
15	Stand	FCD	1
16	Oil Separator	NBR	1
17	Shaft	S45C	1
18	Shaft Guard	SS400	1
19	Grease Nipple	Brass	2
20	Bearing	SKF	2
21	Bearing Housing	FC200	2
22	Belt Guard	SS400	1
23	V-Pulley	FC200	Total
24	V-Belt	Rubber	Total
25	Bracket	SS400	1
26	Casing Set Bolt	SS400	Total

Note: Fig. shows plug on RL and LR types. Number of bolts may vary from that shown in the drawing.

STRUCTURE

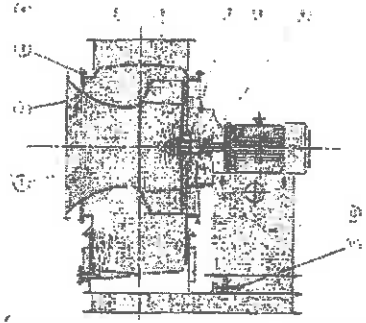
FTF253MD·303MD·403MD



No.	Name of Part	Material	Qty	
1	Bell Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Stopper for Suction Cone	FRP	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Shaft Seal Ring	PE	1	
8	Base	SS400	1	

※Mark. Fit marks on RL and LR types.

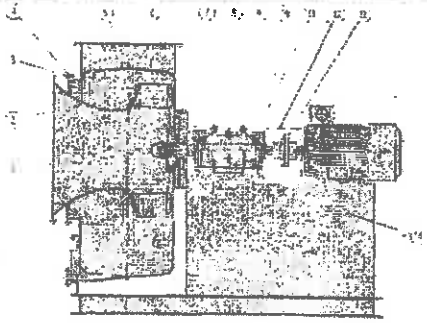
FTF503MD·603MD·703MD



No.	Name of Part	Material	Qty	
1	Bell Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Casing Gasket	NBR	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Gasket Plate	FE	1	
8	Oil Separator	HT-NC	1	
9	Shaft	SS400	1	
10	Base	SS400	1	
11	Spring Set Bolt and Nut	SUS304	1set	

Note. No. 8 and 9 are on RL and LR types.

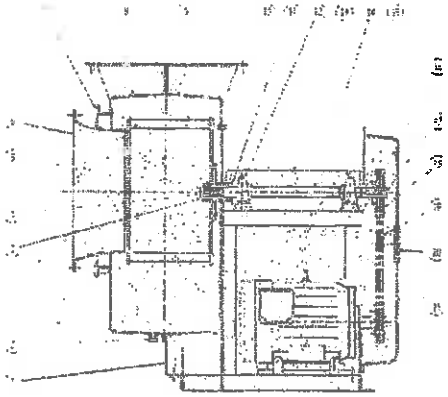
FTF503MC·603MC·703MC·803MC



No.	Name of Part	Material	Qty	
1	Bell Cover	FRP	1	
2	Suction Cone	FRP	1	
3	Suction Cone Set Bolt	SUS304	1set	
4	Casing Gasket	NBR	1	
5	Impeller	FRP	1	
6	Casing	FRP	1	
7	Gasket Plate	FE	1	
8	Oil Separator	HT-NC	1	
9	Shaft	SS400	1	
10	Bearing Housing	FCD400	1	
11	Bearing	SUJ2	1	
12	Bearing Holder	SS400	1	
13	Coupling	FCD400	1	
14	Base	SS400	1	

Note. No. 8 and 9 are on RL and LR types.

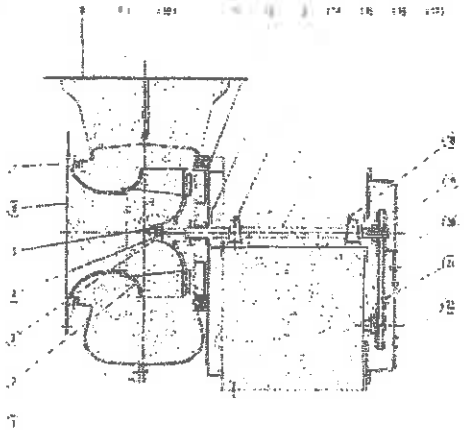
NSF302·402



No.	Name of Part	Material	Qty	
1	Casing Support	FRP	1	
2	Bell Plate	FRP	1	
3	Bell Cover	FRP	1	
4	Impeller Key	C1017	1	
5	Impeller Lock Washer	SS400	1	
6	Suction Cone	FRP	1	
7	Suction Cone Set Bolt	SUS304	1set	
8	Casing	FRP	1	
9	Impeller	FRP	1	
10	Casing Set Bolt	SUS304	1set	
11	Oil Separator	HT-NC	1	
12	Bearing	SUJ2	1	
13	Shaft Guard	FRP	1	
14	Shaft	S45C	1	
15	Bearing Holder	FCD	1	
16	Base	FCD400	1	
17	V-Pulley set	S45C	1	
18	V-Pulley	FCD400	1	
19	V-belt	Rubber	1set	
20	Motor Installation Washer	Steel, Plate	1	
21	Bell Cover	FRP	1	

※Mark. No. 4 and 5 are on RL and LR types. Number of bolts and nuts differ according to the size of the casing.

CTF151·201

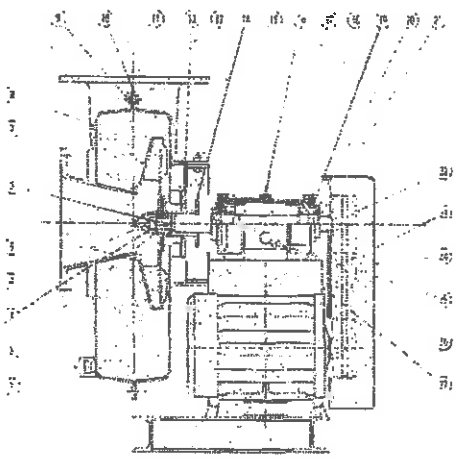


No.	Name of Part	Material	Qty	
1	Bell Cover	PE	1	
2	Impeller	FRP	1	
3	Pump Shaft	SK	1	
4	Impeller Key	S45C	1	
5	Casing	FCD400	1	
6	Suction Cone	SS400	1	
7	Casing	PE	1	
8	Casing Bolt	SUS304	1set	
9	Casing Gasket	PE	1set	
10	Pump Shaft	S45C	1set	
11	Casing Bolt Bolt	SUS304	1set	
12	Oil Separator	NR	1	
13	Bearing	SUJ2	2	
14	Shaft Guard	FRP	1	
15	Shaft	S45C	1	
16	Base	SS400	1	
17	Bearing Holder	Steel	2	
18	V-Pulley set	S45C	1	
19	V-Pulley	FCD400	1	
20	V-belt	Rubber	1set	
21	Bell Cover	FRP	1	

※Mark. Number of bolts and nuts differ according to the size of the casing.

STRUCTURE

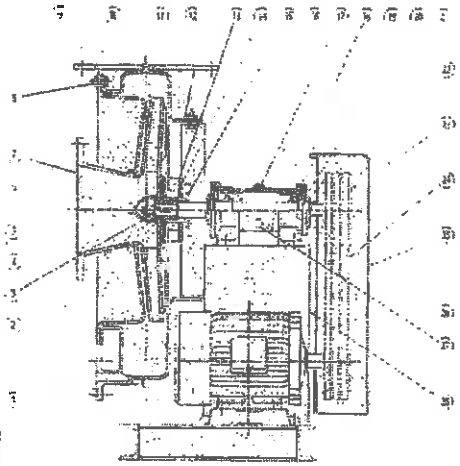
FTB202B·251B·252B



No.	Name of Part	Material	Qty.
1	Drain Plug	FRP	1
2	Casing	SS400	1
3	Nut With Groove	S35C	1
4	Split Pin	SUS304	1
5	Nut Cover	FRP	1
6	Impeller Key	S45C	1
7	Impeller	FRP	1
8	Casing	FRP	1
9	Casing Bolt	SUS304	1set
10	Casing Gasket	EPT	1
11	Seal Plate	PE	1
12	Seal Plate Stiffener	FRP	1
13	Casing Set Bolt	SUS304	1
14	Gas Separator	HTPVC	1
15	Bearing Housing	FCD450	1
16	Oil Sight Plug	PP	1
17	Shaft	S45C	1
18	Bearing	SUJ2	3
19	Bearing Nut & Washer	SS400	2
20	Bearing Cover	FC200	2
21	V-Ring	NBR	2
22	U-Packer	FC200	1set
23	U-Packer	Rubber	1set
24	V-Ring Guard	FRP	1
25	Oil Plug	SS400	1
26	Oil Gauge	PC	2
27	Base	SS400	1

* No drain plug is attached in case of R, and LR.
Number of bolt may vary from that shown in the drawing.

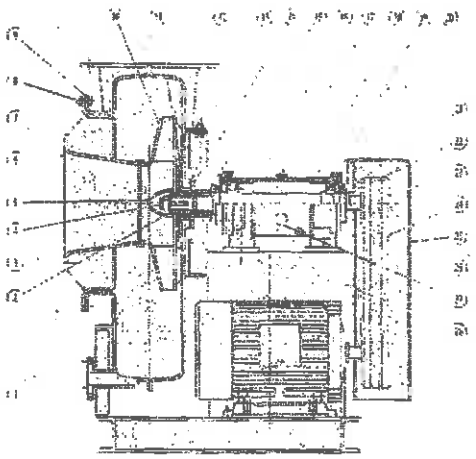
FTB301B·302B·351B·352B·401B



No.	Name of Part	Material	Qty.
1	Drain Plug	FRP	1
2	Casing	SS400	1
3	Nut With Groove	S35C	1
4	Split Pin	SUS304	1
5	Nut Cover	FRP	1
6	Impeller Key	S45C	1
7	Suction Cone	FRP	1
8	Suction Cone Bolt	SUS304	1set
9	Casing Gasket	Chloroprene	1
10	Side Cut	FRP	1
11	Casing	FRP	1
12	Casing Set Bolt	SUS304	1set
13	Seal Plate	PE	1
14	Seal Plate Support	FRP	1
15	Gas Separator	HTPVC	1
16	Shaft	S45C	1
17	Oil Sight Plug	PP	1
18	Bearing Housing	FCD450	1
19	Bearing	SUJ2	3
20	Bearing Nut & Washer	SS400	2
21	Bearing Cover	FC200	2
22	V-Ring	NBR	2
23	U-Packer	FC200	1set
24	U-Packer	Rubber	1set
25	V-Ring Guard	FRP	1
26	Oil Plug	SS400	1
27	Oil Gauge	PC	2
28	Base	SS400	1

* No drain plug is attached in case of R, and LR.
Number of bolt may vary from that shown in the drawing.

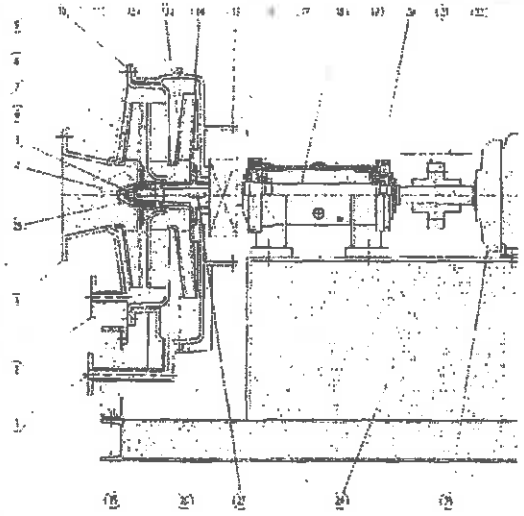
FTB402B·403B·501B·601B·701B



No.	Name of Part	Material	Qty.
1	Drain Flange	FRP	1
2	Washer	SS400	1
3	Nut With Groove	S35C	1
4	Split Pin	SUS304	1
5	Nut Cover	FRP	1
6	Impeller Key	S45C	1
7	Suction Cone	FRP	1
8	Suction Cone Bolt	SUS304	1set
9	Casing Gasket	Chloroprene	1
10	Impeller	FRP	1
11	Casing	FRP	1
12	Casing Set Bolt	SUS304	1set
13	Seal Plate	PE	1
14	Seal Plate Stiffener	FRP	1
15	Gas Separator	HTPVC	1
16	Shaft	S45C	1
17	Oil Sight Plug	PP	1
18	Bearing Housing	FCD450	1
19	Bearing	SUJ2	3
20	Bearing Nut & Washer	SS400	2
21	Bearing Cover	FC200	2
22	V-Ring	NBR	2
23	U-Packer	FC200	1set
24	U-Packer	Rubber	1set
25	V-Ring Guard	FRP	1
26	Oil Plug	SS400	1
27	Oil Gauge	PC	2
28	Base	SS400	1

* Drain Plugs is attached in case of R, and LR.
Number of bolt may vary from that shown in the drawing.

FTW



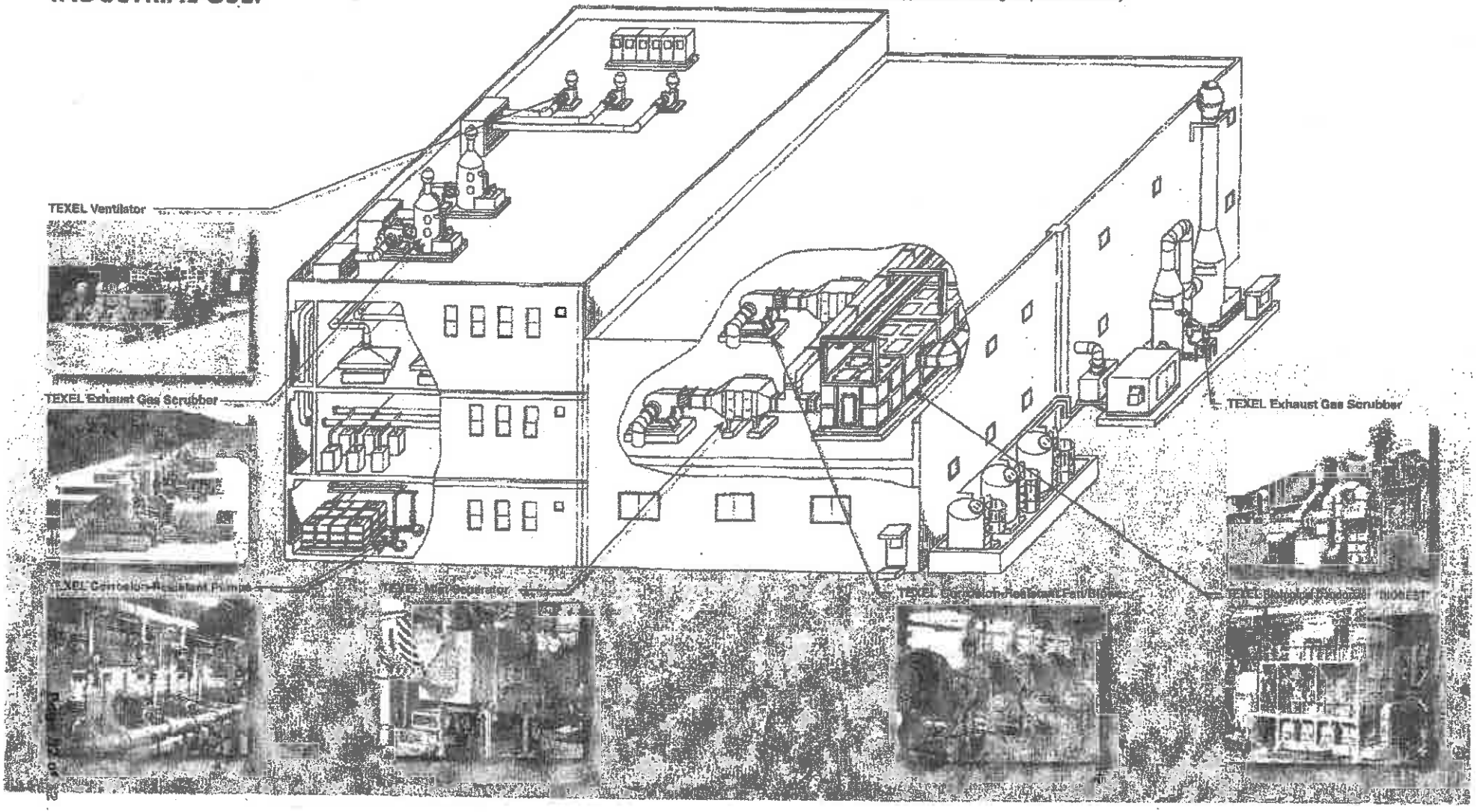
No.	Name of Part	Material	Qty.
1	Drain Flange Base	FRP	1
2	Drain Flange Plate	FRP	3
3	Suction Cone	FRP	1
4	Split Pin	SUS304	1
5	Impeller Nut	S35C	1
6	Washer	SS400	1
7	Impeller Key (Shaft)	S45C	1
8	Impeller Plate	FRP	1
9	Casing Bolt	SUS304	1set
10	Gasket	EPT	1set
11	Motion Plate	FRP	1
12	Casing	FRP	1
13	Separator Plate	FRP-S35C	1
14	Impeller (Vane)	FRP	1
15	Casing Set Bolt	SUS304	1set
16	Gland	—	1set
17	Covering	SUJ2	1
18	Shaft	S45C	1
19	Bearing Housing	FCD450	1
20	Bearing	SUJ2	1
21	Coupling	SNCM	1
22	Bearing Cover	SS400	1
23	Motor	—	—
24	Base	SS400	1
25	Impeller Nut & Washer	SS400	1
26	O-Ring	FPM	1
27	Impeller Key	S45C	1
28	Nut Cover	FRP	1

Drain Flange is attached in case of R, and LR.

THE PRODUCTS OF TEXEL

TEXEL CORROSION RESISTANT EQUIPMENT OFFERS A WIDE APPLICATION RANGE IN PRODUCTION LINES, VARIOUS PROCESSING PLANTS, AND ENVIRONMENTAL PRESERVATION TECHNOLOGY FOR INDUSTRIAL USE.

We of Selkow, have designed, manufactured and constructed unique industrial equipment by making the best use of fundamental technology and applied engineering based on advanced polymeric materials. We have developed our products Utilizing our long experience using advanced polymeric materials and in addition our expertise of the manufacturing process. These products possess the excellent corrosion-resistant and durable property to be widely applied in a wide range of industries such as the electronic, biotechnology, iron and steel, chemical, pharmaceutical and foodstuff industries, where chemical operations are performed. Our production program of products by the accumulated high technology covers 3 groups of products: chemical resistant pumps and fans/blowers and environmental equipment.
The reliability of our products have been recognized by our clients as superior chemical resistant equipment in modern industrial applications fulfilling the product efficiency.



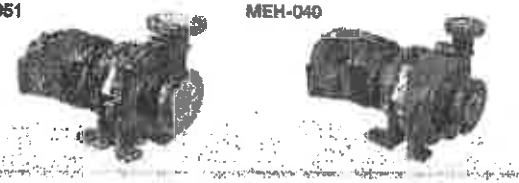
INTRODUCTION OF TEXEL PUMPS

TEXEL MAGNETIC DRIVE PUMPS

MEP-040 **MEP-050**

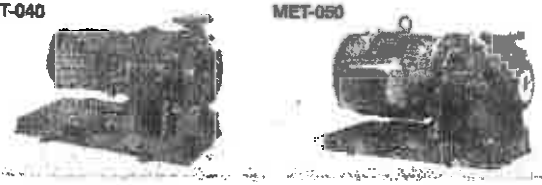
PP type Magnetic Drive Pump is extremely durable even during idling operation and operation with aeration.

MER-051 **MEH-040**



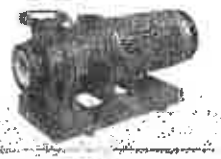
Compact, High Efficiency, General Purpose, Magnetic Drive Pump.

MET-040 **MET-050**



Magnetic Drive pump with a wide range of usefulness in medium size processes.

MTA SERIES



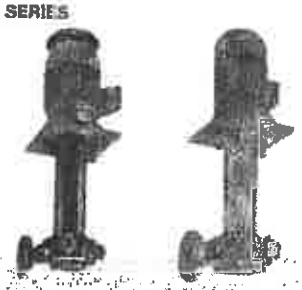
High Total Head State of The Art Process Magnetic Drive Pump.

MSX SERIES

High Capacity Process Magnetic Drive Pump.

TEXEL VERTICAL CHEMICAL PUMPS

VEM SERIES



High Corrosion-Resistant, Vertical Type Pump.

TEXEL SELF-PRIMING MAGNETIC DRIVE PUMPS

MES-040

MES-050

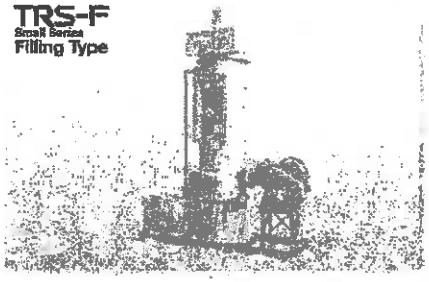
High Durability during idling Operation and High Corrosive Resistant Self-Priming Magnetic Drive Pump.

*Please refer to a catalog for detailed contents.

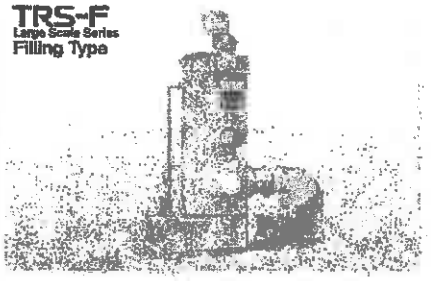
INTRODUCTION OF TEXEL ENVIRONMENTAL EQUIPMENTS

WET TYPE SCRUBBERS

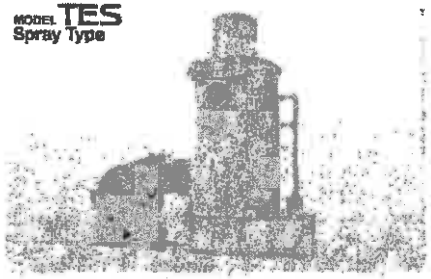
TRS-F Small Series **Filling Type**



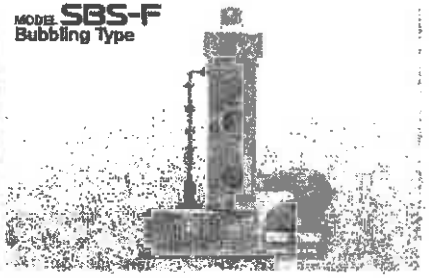
TRS-F Large Scale Series **Filling Type**



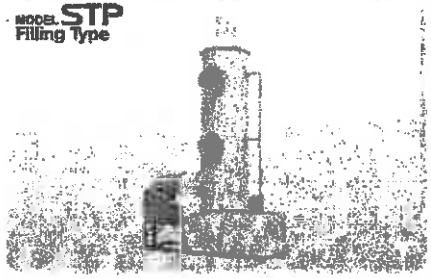
MODEL **TES** **Spray Type**



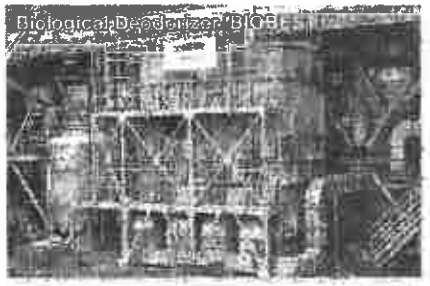
MODEL **SBS-F** **Bubbling Type**



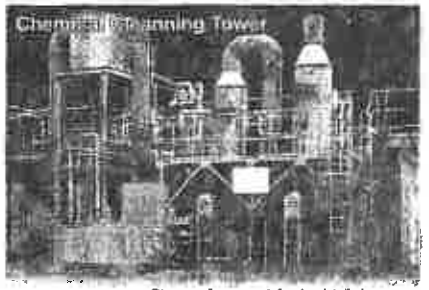
MODEL **STP** **Filling Type**



DEODORIZERS



sorption Tower



*Please refer to a catalog for detailed contents.

INSTALLATION PLAN

Precautions for Installation

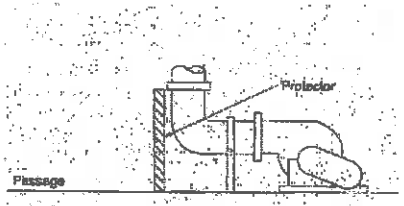
1. Installation and Piping

1) Ensure that the fan is installed where it can easily be accessed for routine checks and maintenance. (Free space of about 600mm is recommended)

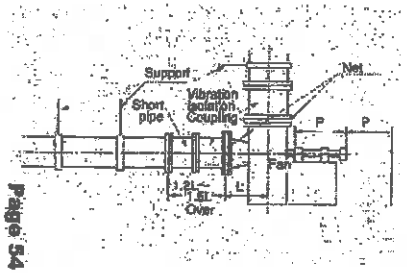
2) When connecting the fan to a duct, make sure a vibration proof joint is attached to the fan and piping supports installed to free the fan from effects of piping load.(We are always at your service with standard vibration proof joints for each model)

3) The risk of foreign matter being sucked into the fan while it is running , resulting in unanticipated damage to the impeller should be averted by taking steps to ensure that foreign matter is not sucked in through the suction opening or allowed to drop in through the discharge opening. (We are always at your service with standard nettings for each model)

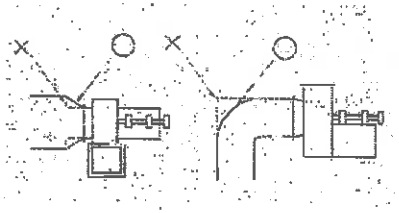
4) Safety has been fully considered in the design and manufacture of impellers. However,the suction of foreign matter, adherence of dust (debris), suction of high temperature gases may lead to unanticipated damage to the fan . A protector should be installed or other adequate measures taken to avert accidents in unavoidable situations where the discharge opening streiches out into a passage way.



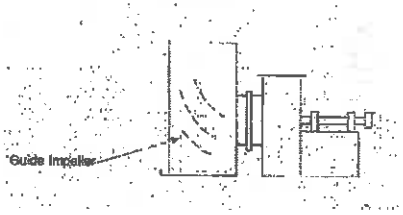
5) For proper running of the fan , the piping and installation method given in the diagram below is recommended.



6) To ensure smooth flow of air, ducts should be designed to have the profile shown by the solid lines in the drawings displayed below. Ducts having the profile denoted by the dotted lines not only lead to increased vibration especially at the suction side but may also cause a decline in fan performance.



7) The use of a right-angle elbow or chamber as piping is also a cause for excessive vibration and decline in fan performance. Utilize guide vanes if use of a right-angle elbow or chamber is unavoidable.



8) Fluid would accumulate inside the casing if the gas being handled contains water vapor or mist, therefore, a casingdrainage pipe should be installed and drainage performed regularly to get rid of the accumulated fluid.

9) The fan has been designed to handle gases that are free of dust or crystallize particles. To avert the risk of impeller unbalance, a filter or similar device should be attached to the suction opening if the gas is not devoid of dust etc.

2. Working temperature and Corrosion resistance

A list of the various gases that can be handled and the permissible maximum gas temperature under which the fan can be used is shown in the CORROSION RESISTANCE TABLE.

Corrosion resistance is attainable at the temperatures up to 50°C temperatures above this value may likely result in impeller damage. The specified working temperature range must be strictly maintained. Consult with us. if the gas temperature should exceed the maximum.

COMPANY PROFILE

Trade Name:
SEIKOW CHEMICAL ENGINEERING & MACHINERY, LTD.

Head Office:
1-31 4-chome Mizudo-cho, Amagasaki,Hyogo Pref. 661-0026 Japan
TEL. (06)6438-0841 FAX. (06)6438-3001

President: Susumu Fujita

Capital: 100 million Yen

Founded: Aug.1. 1952

Established: May 18, 1956

Employees: 191 persons

Business Lines:
Design, manufacture, engineering and sales of corrosion resistant chemical equipment
and apparatus which are mainly constructed with synthetic resins.

Main Production Items:
Corrosion-resistant Pump, Fan/Blower and Exhaust gas treating equipment, NOx control equipment, Chlorine gas leak detection security equipment, White smoke eliminator, Deodorizer, Biological deodorizing system, Odor preventive covering for duct line, etc.
Reference: Risona Bank Amagasaki-Kita Branch,
Sumitomo Mitsui Banking Corp. Amagasaki Branch,
Minato Bank Amagasaki branch
Mizuho Bank Amagasaki Branch.

Qualification:
Construction License No. Toku-23 2867 dated June 25, 2011 by the Ministry of Land,
Infrastructure and Transport

Category : Ducting/Piping construction work, Machinery Equipment Installation work

Category : Water service Installation construction work

Registered date : August 12, 1994

Membership of the following Organizations:
Amagasaki Chamber of Commerce and Industry
Amagasaki Industrial Association
Amagasaki Employers Association
Turbo Machinery Society of Japan

Head Office
1-31 4-chome Mizudo-cho, Amagasaki,Hyogo Pref. 661-0026 Japan
TEL. (06)6438-0841 FAX. (06)6438-3001

Tokyo Sales Office
8-5 2-chome Nihonbashi Horidome-cho, Chuo-ku, Tokyo 103-0012 (Denyo Bldg.)
TEL. (03)5642-1551 FAX. (03)5642-1557

Nagoya Sales Office
3-18 1-chome Meieki Minami, Nakamura-ku, Nagoya City 450-0002 (NORE Meieki Bldg.)
TEL. (052)582-4706 FAX. (052)582-4700

Osaka Sales Office
14-10 5-chome Nishinakajima, Yodogawa-ku, Osaka City 532-0011 (Sanity Shin Osaka Front Bldg.)
TEL. (06)6838-7605 FAX. (06)6838-7658

Fukuoka Sales Office
4-26 4-chome Tenjin, Chuo-ku, Fukuoka City 810-0001 (Tenjin No.2 Bldg.)
TEL. (092)741-1201 FAX. (092)741-4913

Export Division
14-10 5-chome Nishinakajima, Yodogawa-ku, Osaka City 532-0011 (Sanity Shin Osaka Front Bldg.)
TEL. (06)7668-3500 FAX. (06)7668-3431

Laboratory
13-33 3-chome Kukuchi, Amagasaki City 661-0977
TEL. (06)6499-1496 FAX. (06)6499-6797

Tokyo Service Center
4-26 2-chome Horinouchi, Adachi-ku, Tokyo 123-0874
TEL. (03)3897-1320 FAX. (03)6882-7418

Osaka Service Center
1-16 3-chome Shibe, Amagasaki City 661-0976
TEL. (06)6499-8301 FAX. (06)6499-8325

Nagoya Service Center
3-18 1-chome Meieki Minami, Nakamura-ku, Nagoya City 450-0002 (NORE Meieki Bldg.)
TEL. (052)582-4706 FAX. (052)582-4700

Fukuoka Service Center
4-26 4-chome Tenjin, Chuo-ku, Fukuoka City 810-0001 (Tenjin No.2 Bldg.)
TEL. (092)741-1201 FAX. (092)741-4913

Head Office Factory
1-31 4-chome Mizudo-cho, Amagasaki,Hyogo Pref. 661-0026 Japan
・Pump Division
TEL. (06)6438-9191 FAX. (06)6438-9497
・Environmental Equipment Division
TEL. (06)6438-0529 FAX. (06)6438-5461

Environmental Equipment Tokyo Division
8-5 2-chome Nihonbashi Horidome-cho, Chuo-ku, Tokyo 103-0012 (Denyo Bldg.)
TEL. (03)6861-4346 FAX. (03)6861-4349

Amagasaki Factory
1-16 3-chome Shibe, Amagasaki City 661-0976
TEL. (06)6499-8221 FAX. (06)6499-8224

Akashi Factory
15-3 Minami Futami, Futami-cho, Akashi City 674-0093
・Fan Division
TEL. (078)944-1251 FAX. (078)944-1414

China Shanghai Office:
Seikow Chemical Engineering & Machinery, Ltd. Shanghai Rep.
A-406 Far East International Plaza No.319 Xian Xia Road, Shanghai, China 200051
TEL. 021-6235-1525 FAX. 021-6235-1926

China Suzhou Factory:
Suzhou Seikow Chemical Engineering & Machinery, Ltd.
Taiping Industrial Park, Taiping Road, Xiang Chang District, Suzhou, Jiangsu China 215137
TEL. 0512-6818-0068 FAX. 0512-6818-0069

EXPECTED PERFORMANCE CURVE FOR TEXEL BLOWERS

Date: Mar. 6 2017

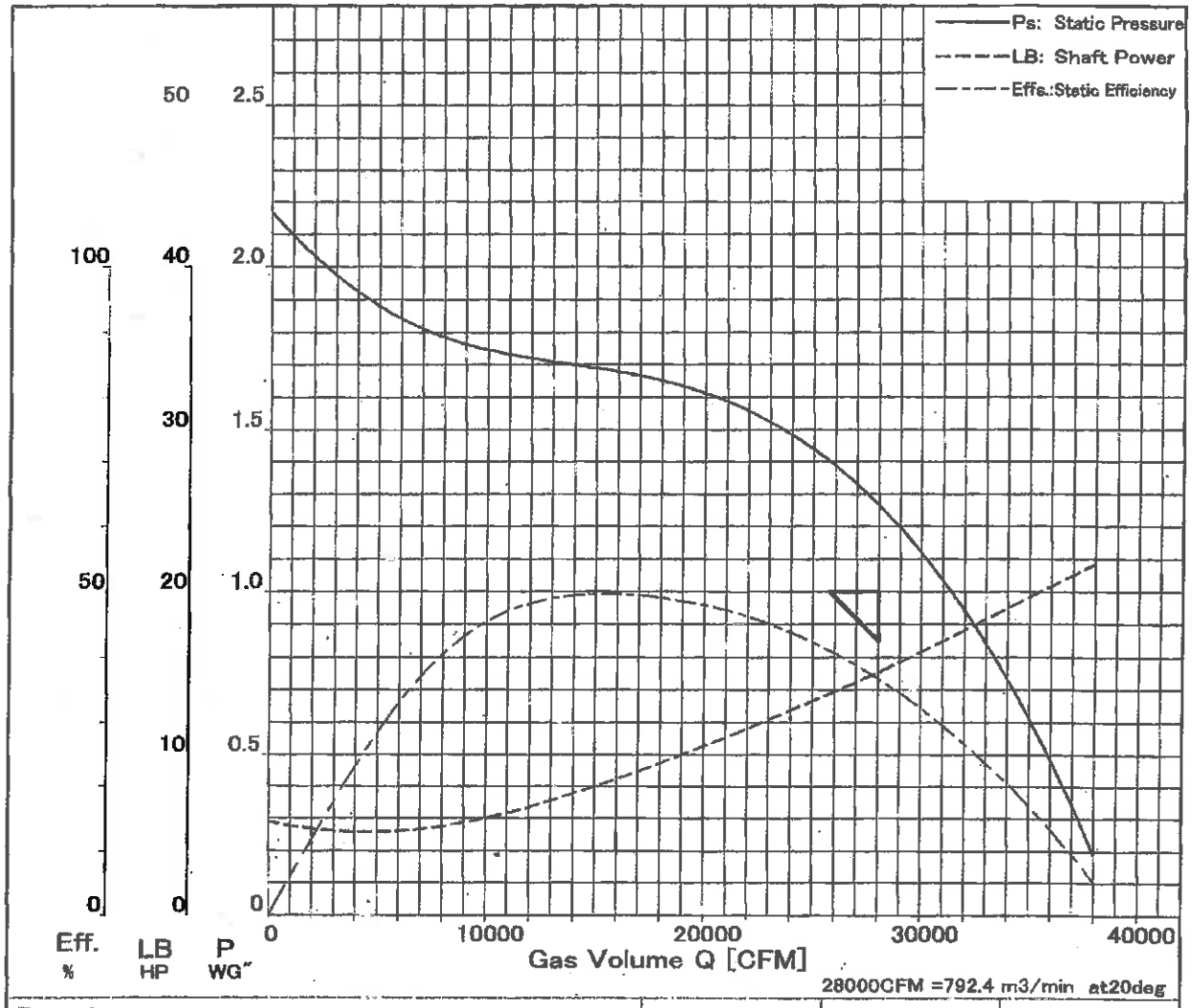
TEXEL CHEMICAL BLOWER

MODEL : SF702

SPECIFICATION

Suction Size	Gas Volume	Static Pressure	Fan Speed	Drive	Motor
47.24 inch	28000 CFM	1 WG"	320 r pm	V Belt	20HP 4P 3 Phase 460V 60 Hz

Gas Handled	Gas Temp.	Gas Density
Waste gas	68 F	1.2 kg/m³



Remarks:	Approved by	Checked by	Made by

TEXEL-SEIKOW U.S.A., Inc.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	○	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	○	
TRICO AUTO GREASERS		Not sure what requested.
ACCESS DOOR	○	
HOUSING DRAIN	○	
316 STAINLESS STEEL SHAFT	○	
316 STAINLESS STEEL WHEEL		FRP impeller selected instead
316 STAINLESS STEEL SUPPORT BASE	○	
INBOARD AND OUT BOARD SHAFT BEARINGS	○	
V-BELT DRIVE	○	
INLET FLEX CONNECTOR	○	
OULTER SCREEN		Not sure what requested.

Option no.2

ITEM NO.	QTY	DESCRIPTION/ MODEL NO.	UNIT PRICE	EXTD. PRICE
1	2	Manufacturer: Fan Equipment Co., North Las Vegas, NV Equipment: Model No. 6 BCS, 36" Dia., Backwardly Inclined, SWSI Class II, Belt Driven, Arrangement 9 Blower, Rated: 20,000 ACFM at 1" SP at .075 Lbs/Ft3, 1030 RPM, at 17.8 BHP. Furnished with: 100% all 316 SS Construction, All Components. 316SS Hardware. Slip Collar Inlet. Flanged Outlet. 316SS Outlet Safety Screen. Low Point Drain Port. Shaft Seal with Teflon Element. Bolted Access Door. 316SS Belt Guard. 316SS Shaft Guard. Heavy Duty Precision Grease Lubricated Pillow-Block Ball Bearings w/ Trico Grease Reservoirs. Constant Speed V-Belt Drive. 316SS Motor / Drive Pedestal. 20 HP, 1800 RPM, 3-60-460VAC Premium Efficiency, TEFC Motor.	$15,948.00	$31,896.00
Total price for all above.....$31,896.00				

Exclusions:

- Any item not included in our offer.
- We are offering a Stainless Steel Housing in lieu of a Fiberglass Housing.
- Inlet Flexible Connector to be furnished by others.
- Motor Starters, Local Safety Disconnect Switches furnished and mounted by others.

Delivery:

- Submittal data, if applicable, will be provided for approval after receipt of order

- Estimated delivery is **8-10 WEEKS** after receipt of order from customer and approved submittal
- All delivery dates quoted are tentative, subject to factory production schedule at time of order

Freight: Freight included to Plantation, FL 33324

Payment Terms: 1/2 % 10 days; NET 30

Validity of Quote: This quotation is valid for 60 days from date of quote.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

316 SS Housing in lieu of FRP Housing

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR

EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	✓	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	✓	
TRICO AUTO GREASERS	✓	
ACCESS DOOR	✓	
HOUSING DRAIN	✓	
316 STAINLESS STEEL SHAFT	✓	
316 STAINLESS STEEL WHEEL	✓	
316 STAINLESS STEEL SUPPORT BASE	✓	
INBOARD AND OUT BOARD SHAFT BEARINGS	✓	
V-BELT DRIVE	✓	
INLET FLEX CONNECTOR		By others
OULTER SCREEN	✓	

Option no.3

ITEM NO.	QTY	DESCRIPTION/ MODEL NO.	UNIT PRICE	EXTD. PRICE
1	2	Manufacturer: Canadian Blower, Lancaster, NY **Stainless Steel Blowers** Model No. BI-33-II-SST Industrial Stainless Steels Blower, Arr. 10 Belt Drive, each rated at 28,000 CFM @ 1" WG, c/w: - Stainless Steel 316 Welded Airstream Constrcution - SST 316 Access Door - SST 316 Housing Drain and Plug - SST 316 Shaft - SST 316 Drive Side Hanger Assembly - SST 316 Inlet Hanger - SST 316 Weather Cover / Drive Guard - 25 HP 1800 RPM 3-60-460V TEFC Premium Efficient Motor - Belt Drive	$23,267.00	$46,534.00
Total price for all above.....$46,534.00				

Exclusions: Any item not included in our offer.

Delivery:

- Submittal data, if applicable, will be provided for approval after receipt of order
- Estimated delivery is **7-9 WEEKS** after receipt of order from customer and approved submittal
- All delivery dates quoted are tentative, subject to factory production schedule at time of order

Freight: Freight included to Plantation, FL 33324

Payment Terms: 1/2 % 10 days; NET 30

Validity of Quote: This quotation is valid for 60 days from date of quote.

Option no.4

ITEM NO.	QTY	DESCRIPTION/ MODEL NO.	UNIT PRICE	EXTD. PRICE
1	2	Manufacturer: Canadian Blower, Lancaster, NY **Fiberglass Blowers** Model No. FRP-FE-30-MP Industrial Fiberglass Blower, Arr. 9E Belt Drive, each rated at 28,000 CFM @ 1" WG, c/w: - All-FRP Airstream Constrcution - FRP Access Door - FRP Threaded Drain and Plug - FRP Flanged Outlet - Teflon Shaft Hole Closure - SST 316 Shaft with FRP Sleeve - SST 316 Drive Side Hanger Assembly - SST 316 Inlet Hanger - SST 316 OSHA Belt Guard - SST 316 Shaft & Bearings Guard with Extended Lube Lines - 50 HP 1800 RPM 3-60-460V TEFC Premium Efficient Motor - Belt Drive	$28,559.00	$57,118.00
Total price for all above.....$57,118.00				

Exclusions: Any item not included in our offer.

Delivery:

- Submittal data, if applicable, will be provided for approval after receipt of order
- Estimated delivery is **7-9 WEEKS** after receipt of order from customer and approved submittal
- All delivery dates quoted are tentative, subject to factory production schedule at time of order

Freight: Freight included to Plantation, FL 33324

Payment Terms: 1/2 % 10 days; NET 30

Validity of Quote: This quotation is valid for 60 days from date of quote.

Technology International, Inc. Corporate data:
We are a small business and our Tax Payer Identification Number (TIN): 650342335. The price quoted does not include any sales, excise or similar taxes.

We trust that this proposal will meet your requirements and we look forward to hearing from you.

If you have any questions or need more information, please contact us by phone at 407-359-2373, fax at 407-359-2372 or email us at tii@tii-usa.com

Respectfully submitted,

Michael J. Rosenberg
Business & Operations Manager
Technology International, Inc.

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the [illegible].

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: [signature] Date: 3/14/17

Print/Type Name: Kevin A. Fendt

Print/Type Company Name: Pat's Pump + Blower LLC

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

DATE: February 14, 2017

Written Bid No.: WB No. 009-17

WRTTEN BID
(Informal Competitive Bid)

ALL INTERESTED PARTIES:

The City of Plantation, Florida, hereinafter referred to as CITY, will receive Bids hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317, Email: ESpencer@Plantation.org, via Fax: (954) 797-2649, or Demand Star for:

Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

Bids must be received by methods mention above, no later than March 14, 2017 local time on 11:00am. Any bids received after 11:00am local time on said date will not be accepted under any circumstances. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

All questions should be submitted by email to espencer@plantation.org.

The CITY reserves the right to reject any or all bids, to re-advertise for bids or take any other such actions that may be deemed to be in the best interests of the CITY

Charles Spencer Jr.
Procurement Administrator

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:

Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.

This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	✓	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	✓	
TRICO AUTO GREASERS		
ACCESS DOOR	✓	
HOUSING DRAIN	✓	
316 STAINLESS STEEL SHAFT	✓	
316 STAINLESS STEEL WHEEL		FRP
316 STAINLESS STEEL SUPPORT BASE		Coated Steel
INBOARD AND OUT BOARD SHAFT BEARINGS	✓	
V-BELT DRIVE	✓	
INLET FLEX CONNECTOR	✓	
OULTER SCREEN	✓	

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.		2	$ 46,500.00	$ 93,000.00
TOTAL			$	$ 93,000.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME	Pete's Pump & Blower
PHONE NUMBER	800 359-7867
MAILING ADDRESS	2141 West Church St
CITY-STATE –ZIP CODE	Orlando FL 32805
FAX NUMBER	407-648-2096
E-MAIL ADDRESS	PetsPump@AOL.COM
PRINT NAME (Contact)	Kevin A. Fender
SIGNATURE	

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Name: DAVID PACE

By: _____

Name: Kevin A. Fender

Title: V. President Member

DAVID C. PACE
Notary Public - State of Florida
Commission # FF 242499
My Comm. Expires Oct 15, 2019
Bonded through National Notary Assn.

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Karen Fender, known to be the persons described in or who has produced Known as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this day of 14 Mar. 2017.

Notary Public, State of FL

Sign: [signature]

Print:

My Commission Expires:

DAVID C. PACE
Notary Public - State of Florida
Commission # FF 242499
My Comm. Expires Oct 15, 2019
Bonded through National Notary Assn.

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: Pets Prompt Blood

By (sign): [signature]

Print Name: Kevin A. Fender

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Kevin Fender, known to be the persons described in or who has produced Known as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 14 day of Mar 2017.

Notary Public, State of FL

Sign: [signature]

Print:

My Commission Expires:

DAVID C. PACE
Notary Public - State of Florida
Commission # FF 242499
My Comm. Expires Oct 15, 2019
Bonded through National Notary Assn.

[29]9001-14001

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: 3/14/17

Signed:

Printed Name of Signor: Kevin A. Fendt

Title of Signor: V.P. Managing Member

Name of Firm: Pat's Pump + Blower LLC

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

(g)

The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

Revised 9/2014

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 1

WB No. 009-17

Provide and Deliver Two (2) Exhaust Blowers Capable of 28,000 CFM at 1" W.C. with a 20 HP Motor

City of Plantation

DATE OF ADDENDUM: February 17, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: Is this an inline Fan or Utility FAN?

Response: This is NOT a Fan it is a Centrifugal Blower

Question: Can you please provide application?

Response: The Blower is used to remove air from the generator room to assist in cooling.

Question: Can you give the range of or the required voltage?

Response: The requited voltage is 480 volt.

Question: Can you provide an existing model number that we are matching or any data regarding the application and your requirements?

Response: There is no model number available, old unit is a Penn Ventilator Company Dynamo centrifugal blower. Site visit highly recommended for proper submittals to be made for City's approval. Vendors must measure and see blower configuration to properly bid and make proper submittals (See attached picture)

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

Bids **must** be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: [illegible], via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 1 by returning it and/or acknowledging it in your bid.

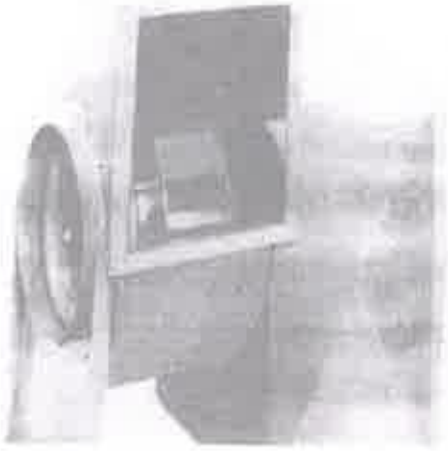
David Pace
Pat's Pump & Blower
2141 W. Church St., Orlando, FL 32805
Ph: 407-841-7867 Fax: 407-648 2096

COMPANY NAME: _____

PENN VENTILATOR CO., INC.
THE FAN COMPANY FOR THE 90'S AND BEYOND
RED LION & GANTRY RDS., PO BOX 52844, PHILA. PA 19115-7844
PHONE: (215) 464-8800 FAX: (215) 677-1647
69 JACQUES CARTIER N., PO BOX 28, FARNHAM, QUEBEC, CANADA J2N 2R4
PHONE: (514) 293-5317 FAX: (514) 293-6540

PARTS LIST, INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

DYNAMO CENTRIFUGAL BLOWER CLASS 1, S.W.S.I.



INSTALLATION

The ideal surface for mounting the Dynamo is on a level reinforced concrete floor. Determine the minimum safe floor loading requirement for proper support by multiplying the tota weight of the unit by two. Flex pads, rubber-in-shear and sprin type isolators are available to reduce the transmission of vibr tion to the surrounding areas. See suggested ductwork install tions on the next page.

OPERATION

Inspect the installed unit carefully before start-up. Make s all motor bearings are properly lubricated. Tighten all bolts curely. Rotate blower wheels by hand to insure free movem

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 2

WB No. 009-17

Provide and deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 Ho Motor

City of Plantation

DATE OF ADDENDUM: February 27, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: What is the HP required?

Response: Blower has to be at least 20 HP (Currently have 20Hp Blower)

Question: Can you provide the dimensions of the blower you are requesting?

Response: Prospective Bidders must come take measurements in order to submit proper build submittal.
Point of contact for site visits is below:

Brett Miller 954-326-7634
City of Plantation Water /Waste Water Plant Maintenance Superintendent

Question: Can you give the range of or the required voltage?

Response: The required voltage is 480 volt.

Question: Can you provide a picture of the current blower that needs to be replaced?

Response: (See attached picture)

Bids **must** be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: [illegible], via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 2 by returning it and/or acknowledging it in your bid.

COMPANY NAME: David Pace
Pat's Pump & Blower
2141 W. Church St., Orlando, FL 32805
Ph: 407-841-7867 Fax: 407-648 2096

David

From: Spencer, Ezzard "Charles" [ESpencer@plantation.org]
Sent: Monday, March 13, 2017 4:36 PM
To: 'David'
Subject: RE: Pat's Pump & Blower RE BID WB-No. 009-17

Yes, the City will be installing the (2) Blowers

Charles Spencer Jr. FCCN, FCCM
Procurement Administrator
Ph. (954) 797-2647
Fax: (954) 797-2649

From: David [mailto:davidp@patspump.com]
Sent: Monday, March 13, 2017 3:53 PM
To: Spencer, Ezzard "Charles" <ESpencer@plantation.org>
Subject: Pat's Pump & Blower RE BID WB-No. 009-17

Mr. Spencer

Regarding these 2 Blowers, will the City be doing the Installation?

David Pace
Sales Engineer
Pat's Pump & Blower
Phone: 407-841-7867
Fax: 407-648-2096
EMail: DavidP@PatsPump.com

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public records request, do not send your electronic mail to this entity. Instead, contact this office by phone or in writing.

Performance	
Quantity	2
Volume (CFM)	28,000
External SP (in. wg)	1
Total SP (in. wg)	1
Operating Power (hp)	12.18
Start-Up Power (hp)	12.18
Fan RPM	730
Max Fan RPM	901
Elevation (ft)	0
Start-up Temp.(F)	70
Operating Temp.(F)	70

Fan Configuration	
Size	44
Class	II
Arrangement	9
Rotation	CW
Discharge Position	TH

Equipment Weights	
Fan (LMD)(lb)	1,250

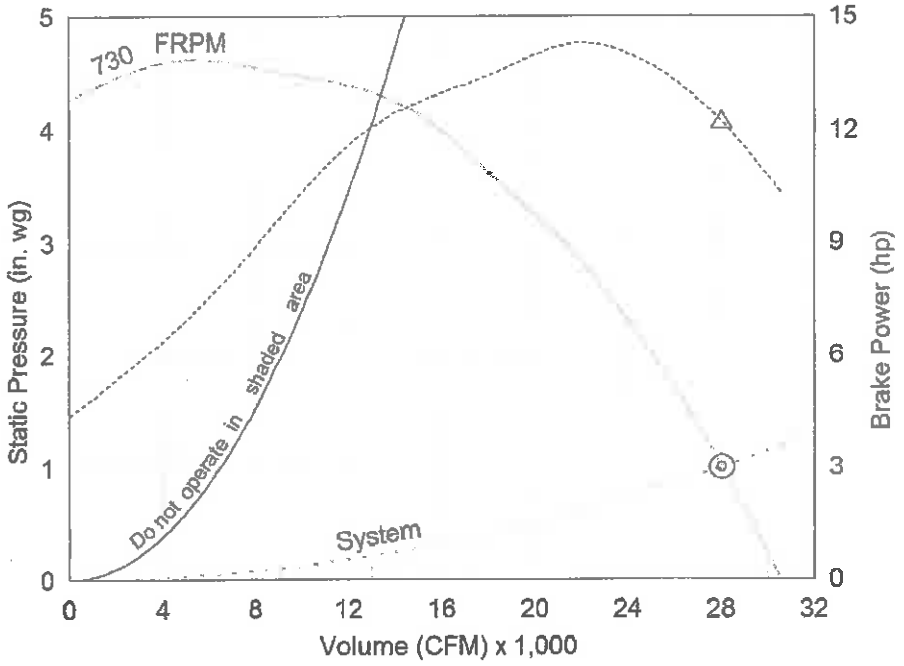
Misc Fan Data	
FEG	85
Outlet Velocity (ft/min)	2,639
Static Efficiency (%)	37
Tip Speed (ft/min)	8,506

Motor and Drives	
Motor Supplier	Greenheck
Size (hp)	20
RPM	1725
Enclosure	ODP
Voltage	460
Cycle	60
Phase	3
Location	Left Side
Pulley Type	Constant
Drive Loss (%)	3.5
NEC FLA* (Amps)	27

Model: 44-BCSW-FRP-9-II-200

Centrifugal FRP Fan

Operating Performance



Operating Bhp point
Operating point at Total SP
Operating point at External SP
Fan curve
System curve
Brake horsepower curve

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	96	104	94	91	85	76	71	67	93	82	41
Outlet											

*FLA - based on tables 150 or 148 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.
LwA - A weighted sound power level, based on ANSI S1.4
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 ft- dBA levels are not licensed by AMCA International
Sones - calculated using AMCA 301 at 5 ft

Model: 44-BCSW-FRP-9-II-200

Centrifugal FRP Fan

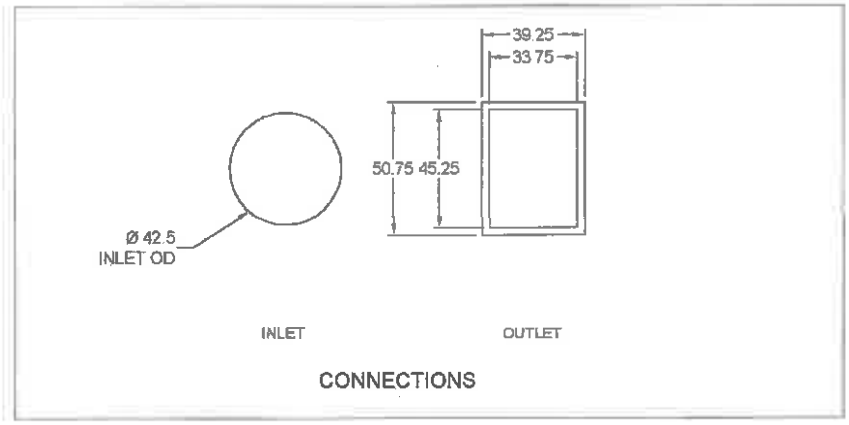
Standard Construction Features:

HOUSING: Fiberglass reinforced plastic scroll. Layers of protective "C" veil are included as standard for added corrosion protection. All hardware in contact with the airstream is made of stainless steel and encapsulated in FRP. DRIVE FRAME: Heavy-gauge steel coated in enamel. BEARINGS, SHAFT, AND WHEEL: Heavy duty, self-aligning ball or roller pillow block bearings - Polished solid steel shafts - Fiberglass reinforced plastic centrifugal wheel, with strapped in blades - 9 bladed construction - Backward Curved blade profile

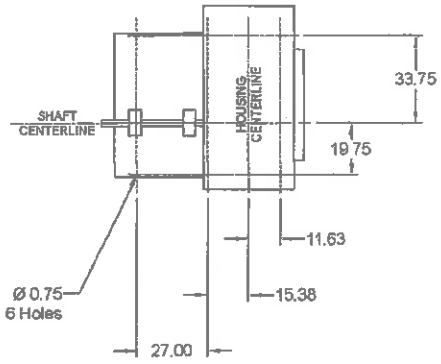
Selected Options & Accessories:

NEMA Premium Efficient Motor - meets NEMA Table 12-12
Motor with Class B or Greater Insulation
Standard Bearings - L(10) Life of 80k Hours
Direct Mount Isolators, Isolator Spring, Housed, 1 Inch
Motor Slide Base
Switch - NEMA-3R, Rotary, Ship Separate, Field Mounted
Access Door - Quick Opening
Drain Connection
Inlet Connection - Inlet Collar, Slip Fit
Outlet Connection - Unpunched Outlet Flange
Belt Guard - Totally Enclosed, coated w/Safety yellow finish
Shaft Guard, coated w/Safety yellow finish
Shaft Material - 316 Stainless Steel
Coating - Wheel - GelCoat, Drive Frame - Brushed Enamel, Gray, Pers. Grd. - Safety Yellow
Nexus Veil

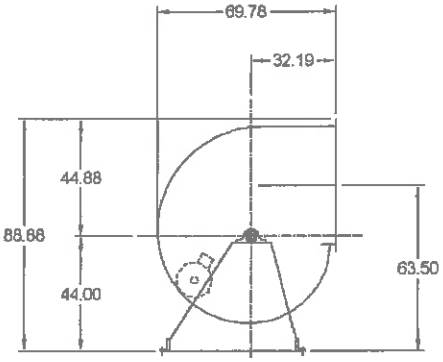
Model: 44-BCSW-FRP-9-II-200 Centrifugal FRP Fan



CONNECTIONS

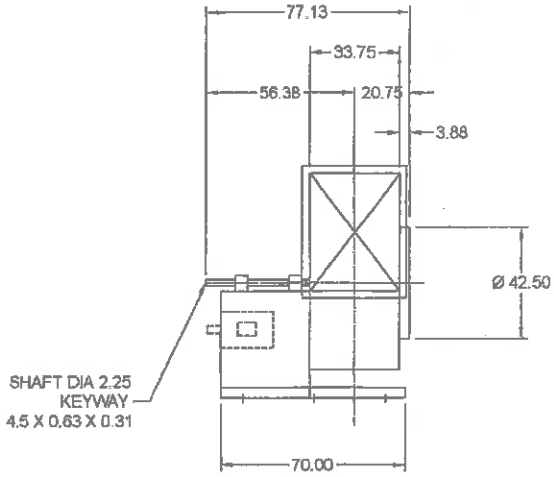


FAN FOOTPRINT



SIDE VIEW

*SIDE VIEW IS VIEWED FROM DRIVE SIDE



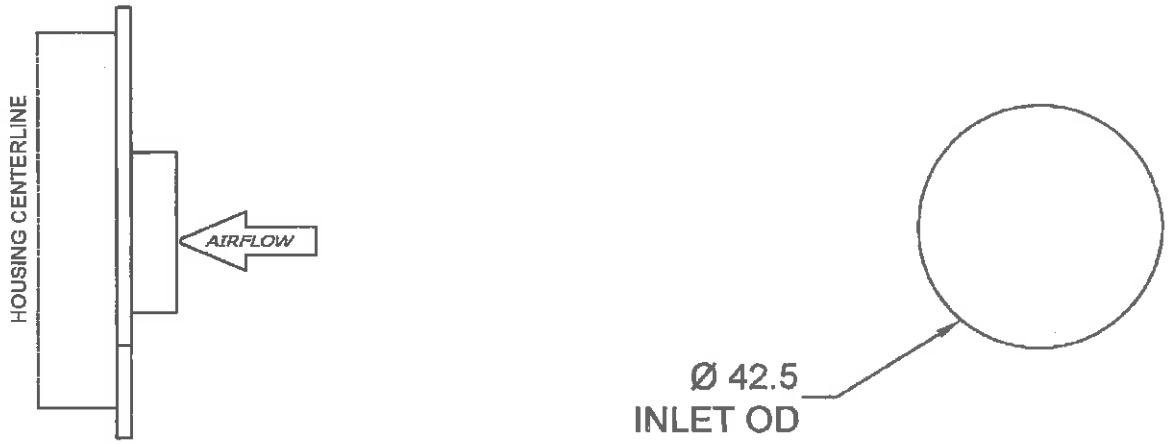
END VIEW

Notes: All dimensions shown are in units of in.

Inlet Connection

Standard Construction Features:

- Inlet collar standard
- Flanges (when selected) will be unpunched and strapped onto the inlet collar
- Companion flanges are available

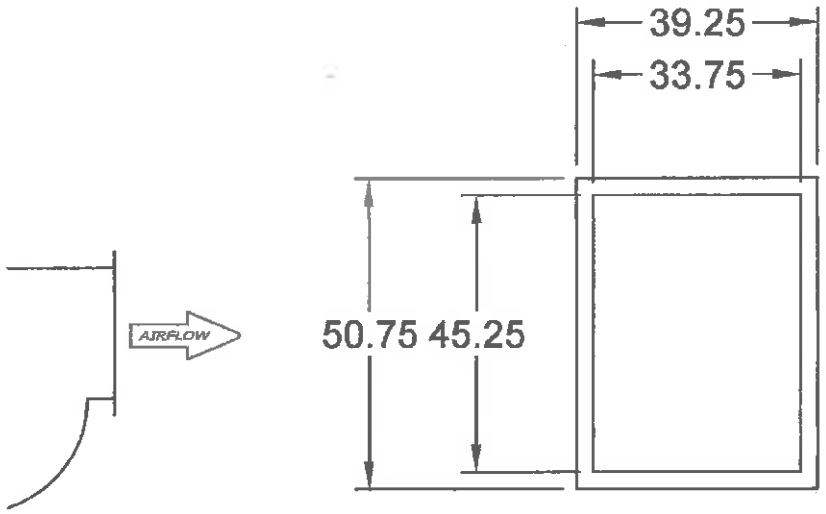


INLET DRAWN TO SCALE
EXAMPLE SHOWS AIRFLOW DIRECTION

Notes: All dimensions shown are in units of in.

Outlet Connection

Standard Construction Features:
•Unpunched outlet flange is standard
•Rectangle to round outlet transitions and companion flanges are available
•Discharge transitions for sizes 48-73 will ship loose; for sizes 15-44 they will be integral with the fan



0.44 DIA. 40 HOLES
OUTLET DRAWN TO SCALE
EXAMPLE SHOWS AIRFLOW DIRECTION
EXAMPLE DISCHARGE POSITION IS "TH"

Notes: All dimensions shown are in units of in.

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: Date: 03/14/17

Print/Type Name: Jose Cubas

Print/Type Company Name: Cool Breeze Air Conditioning

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:

Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.

This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.	Green Heck Model CSW-36-B1-41 10-1-200 *please see attached	2	$49,957.00	$99,914.00
TOTAL	* price does not include installation		$	$99,914.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME	Cool Breeze Air Conditioning
PHONE NUMBER	305-226-2665 or 305 490-3548
MAILING ADDRESS	13120 SW 130 Terr.
CITY-STATE--ZIP CODE	Miami FL 33186
FAX NUMBER	305-253-4100
E-MAIL ADDRESS	jclubes@cool-breezeac.com
PRINT NAME (Contact)	Jose Clubes
SIGNATURE	

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Name: FRANCISCO TAVARAZ

Name: Tina Diaz

Name: Jose Cubas

Title: Sales Dept

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Jose Cubas known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 3rd day of March, 20 17

Notary Public, State of FL

Sign: _____
Print: Rosa Alicea
My Commission Expires: 12-26-2020

ROSA C ALICEA
Notary Public - State of Florida
Commission # GG 027565
My Comm. Expires Dec 26, 202

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: COOL-Breeze Air Conditioning

By (sign) _____

Print Name: Jose Cubas

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Jose Cubas, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 3rd day of March 2017.

Notary Public, State of FL

Sign: _____

Print: Rosa Alicea

My Commission Expires: 12-26-2020

ROSA C ALICEA
Notary Public - State of Florida
Commission # GG 027565
My Comm. Expires Dec 26, 2020

OFFICE OF THE MAYOR
Diane Veitri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

Bids **must** be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: [illegible], via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 1 by returning it and/or acknowledging it in your bid.

COMPANY NAME:

Model: CSW-36-BI-41-10-I-200

Series 41 Backward Inclined Single Width

Performance	
Quantity	1
Volume (CFM)	28,000
External SP (in. wg)	1
Total SP (in. wg)	1.266
Operating Power (hp)	18.44
Start-Up Power (hp)	18.44
Fan RPM	1015
Max Fan RPM	1,051
Oper. Frequency (Hz)	60
Elevation (ft)	10
Start-up Temp.(F)	70
Operating Temp.(F)	70

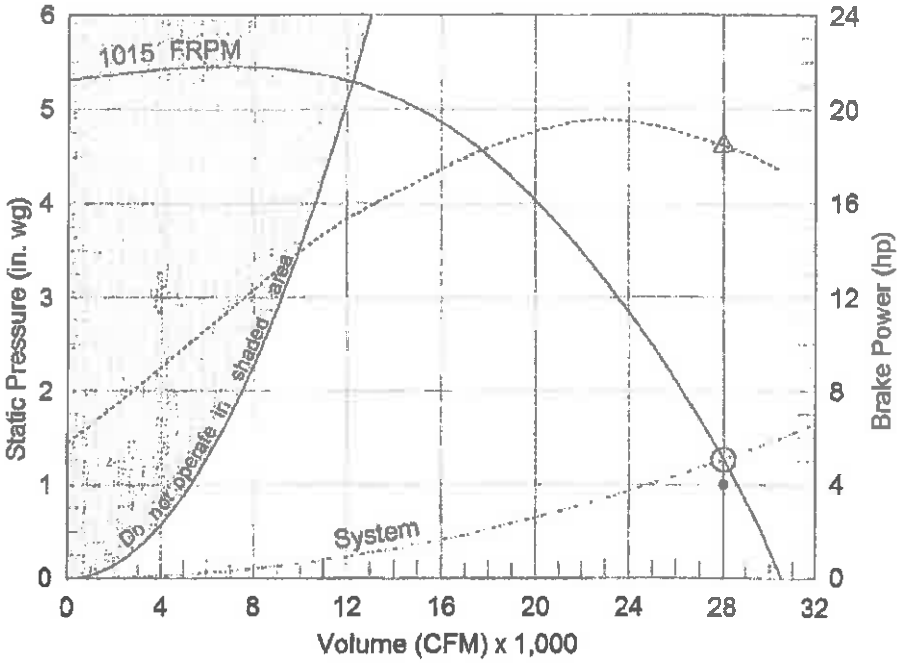
Fan Configuration	
Construction Type	Welded Scroll
Size	36
Class	I
Arrangement	10
Rotation	CW
Discharge Position	TH
Spark Resistance	None
Scroll Material	Stainless
Wheel Material	Stainless
Inlet Cone Material	Stainless
Pedestal Material	Steel

Equipment Weights	
Fan (LMD)(lb)	1,088
Motor/Drive (lb)	276
Accessories (lb)	366

Misc Fan Data	
FEG	80
Outlet Velocity (ft/min)	3,655
Static Efficiency (%)	31
Tip Speed (ft/min)	9,694

Motor and Drives	
Motor Supplier	Greenheck
Size (hp)	20
RPM	1725
Enclosure	ODP
Voltage	460
Cycle	60
Phase	3
Frame Size	256T
Max Frame Size	326
Location	Centered
Pulley Type	Constant
Drive Loss (%)	3.3
Drives	1.5 x Standard
Drive Service Factor	N/A
NEC FLA* (Amps)	27

Operating Performance



△ Operating Bhp point
○ Operating point at Total SP
• Operating point at External SP
—— Fan curve
- - - System curve
------- Brake horsepower curve

External SP	1 in. wg
Outlet Guard	0.266 in. wg
Total SP	1.266 in. wg

Note: Using External SP only, the fan would have been incorrectly selected at:
997 RPM 17.31 Bhp

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	97	104	97	90	89	86	79	74	95	84	47
Outlet	106	108	98	95	92	90	83	78	99	87	82

*FLA - based on tables 150 or 148 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.
LwA - A weighted sound power level, based on ANSI S1.4
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 ft- dBA levels are not licensed by AMCA International
Sones - calculated using AMCA 301 at 5 ft

Model: CSW-36-BI-41-10-I-200

Series 41 Backward Inclined Single Width

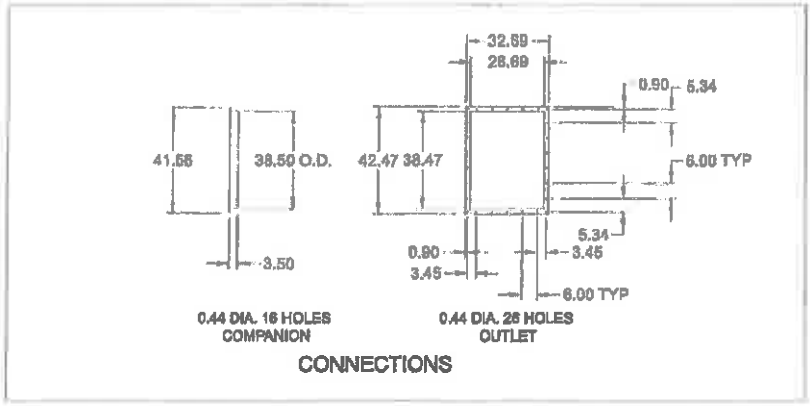
Standard Construction Features:

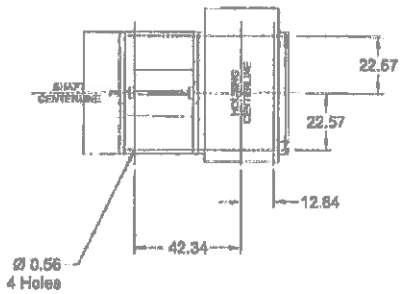
HOUSING: Series 41 class I, II, III and IV fans feature continuously welded housing on all sizes - Inlet collars on Arr. 1, 9, 10 - Punched outlet flange standard (except for downblast fans - DB) on sizes 33-73 class I and II, all sizes class III and IV - All structural steel parts phosphatized and coated with Permatector
BEARINGS, SHAFT, AND WHEEL: Heavy duty, self-aligning ball or roller pillow block bearings - Polished, solid steel shafts - Welded centrifugal wheel

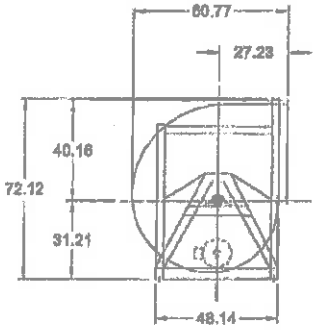
Selected Options & Accessories:

NEMA Premium Efficient Motor - meets NEMA Table 12-12
Motor with Thermal Overload
Motor with Class B or Greater Insulation
Drives for Emergency Duty-UBC 905.7.6/IBC 909 (1.5 x No. of Belts @ 1.2 SF)
Spare Belts - 1 Set
Coating - Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan and Attached Accessories
Switch - NEMA-3R, Toggle, For Indoor or Outdoor Use, Ship Separate
Isolation Base, Steel Construction, Isolator-Spring, Restrained, 2 Inch, Factory Mounted, Base Coating - Match Fan
Bearings - L(10) Life of 200k Hours
Housing - Welded Scroll
Wheel - Backward Inclined
UL Listed for UL/cUL-705 - "Power Ventilators"
Stainless Steel Shaft
Access Door - Bolted
Drain Connection - 1" Pipe Thread w/Plug
Extended Lube Lines - Copper
Inlet Connection - Punched with Companion Flange
Outlet Connection - Outlet Flange, Punched
Weatherhood - Steel
Outlet Guard - Outlet Guard, w/Mill Finish
CONSTRUCTION, STAINLESS STEEL (C1700224)
INLET & OUTLET GUARDS, FACTORY MOUNTED (C1700224-1)
Unit Warranty: 1 Yr (Standard)

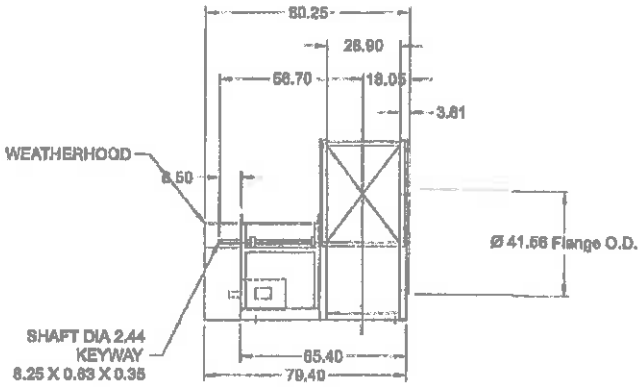
Model: CSW-36-BI-41-10-I-200 Series 41 Backward Inclined Single Width







SIDE VIEW



*SIDE VIEW IS VIEWED FROM DRIVE SIDE
*DISCHARGE POSITION CAN NOT BE MODIFIED IN FIELD
*FANS ARE SUBJECT TO ±.125 INCH TOLERANCE
*DUE TO CONTINUAL IMPROVEMENTS DIMENSIONS MAY CHANGE

Notes: All dimensions shown are in units of in.

Isolation Base

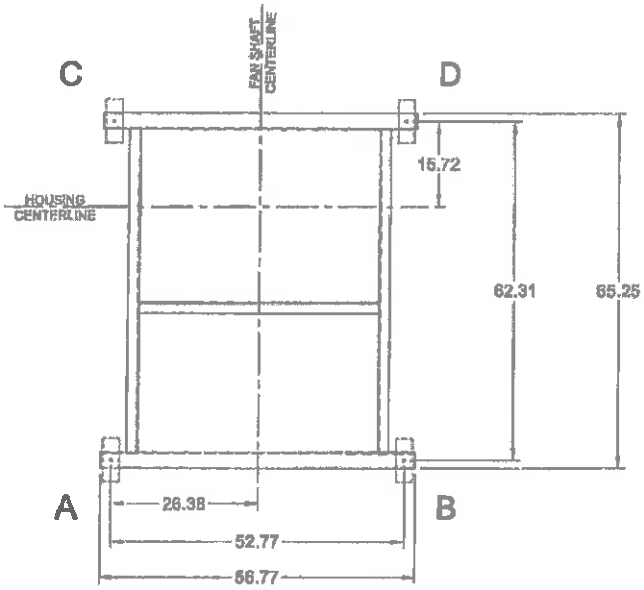
Type: Isolation Base

Standard Construction Features:

- Steel Channel - Welded construction - Pre-punched mounting holes for fan and isolator mounting - Height savings brackets for isolator mounting - Welded lifting lugs - Motor slide base (Arr 1 and Arr 3 only)

Fan Configuration

Model:	CSW-36-BI-41-10-I-200	Discharge Position:	TH
Arrangement:	10	Class:	I
Rotation:	CW	Motor Frame Size:	256T
Motor Position:	Centered	Isolator/Deflection:	Spring, Restrained, 2 Inch
Corner Weight A (lb):	453	Corner Weight B (lb):	457
Corner Weight C (lb):	406	Corner Weight D (lb):	411



Notes: All dimensions shown are in units of in.

Isolators

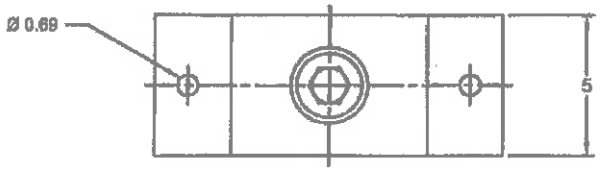
Type: Spring, Restrained, 2 Inch

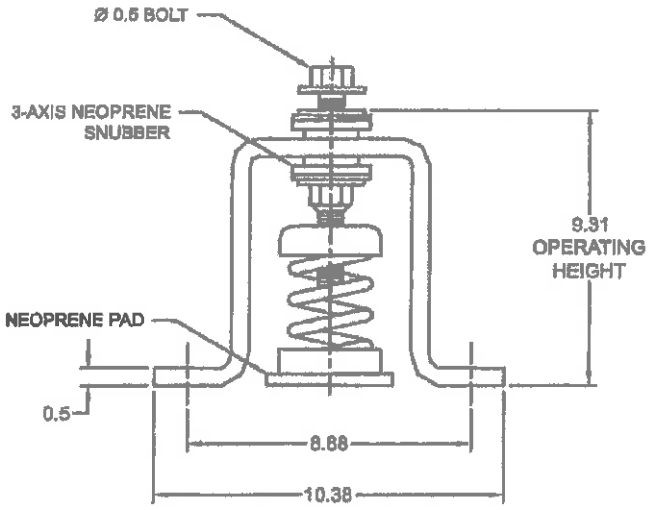
Standard Construction Features:

Designed for horizontal and vertical restraint. Housings can be bolted or welded to supporting structure. Housings may be used for blocking during installation. Springs are color coded or identified to indicate load capacity. Neoprene pad for noise reduction.

Fan Configuration

Model:	CSW-36-BI-41-10-I-200	Discharge Position:	TH
Arrangement:	10	Class:	I
Rotation:	CW	Motor Frame Size:	256T
Motor Position:	Centered	Isolator/Deflection:	Spring, Restrained, 2 Inch
Isolator Color A:	Green	Isolator Color B:	Green
Isolator Color C:	Green	Isolator Color D:	Green





Notes: All dimensions shown are in units of in.

Disconnect Switch

Enclosure Rating: NEMA-3R

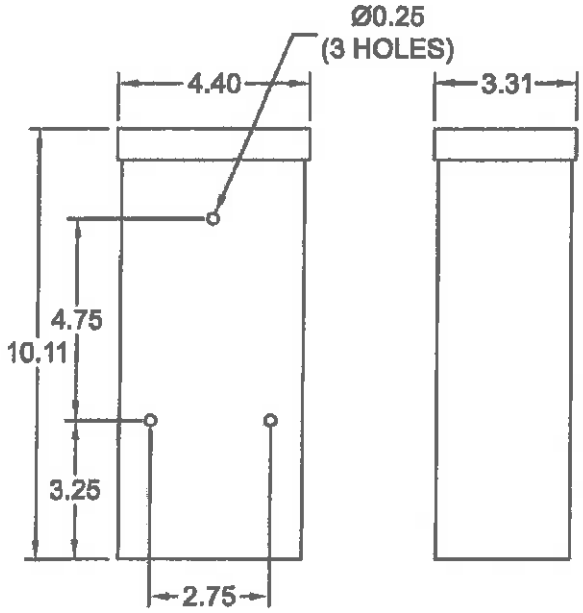
Standard Construction Features:

Enclosure constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment: to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust. The enclosed equipment will be undamaged by the external formation of ice on the enclosure. This enclosure meets the rod entry, rain, external icing, outdoor corrosion protection and gasket design tests. Enclosure is equipped with provision to lockout in the off position with customer supplied lock.

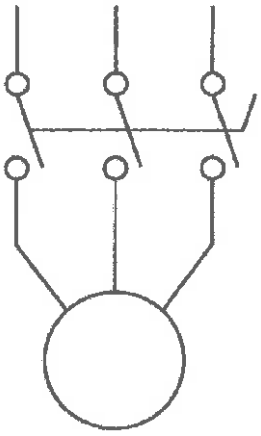
Disconnect Switch Configuration

Type:	Toggle	Motor Size:	20 hp	Voltage:	460	UL Listed:	Yes
Manufacturer:	Hubbell	Cycle:	60	Amperage:	60	CSA Approved:	Yes
Overload Protection:	None	Phase:	3	Switch Pole(s):	3	Rating:	25 hp
Mounting:	Ship Separate	RPM:	1725	Wiring (Exp. Resist.):			

Electrical Drawing Details



Wiring Schematic



Notes: All dimensions shown are in units of in.

Warranty - 1 Yr (Standard)

WARRANTY AND LIABILITY: SELLER warrants to Buyer that products manufactured are free from defects in material and workmanship for a period of 1 Yr (Standard) from the date of shipment. SELLER's obligations and liabilities under this warranty are limited to furnishing FOB factory or warehouse at SELLER's designated shipping point, freight allowed to Buyer's city, (or point of export for shipments outside the conterminous United States) replacement equipment (or at the option of SELLER parts therefore) for all Seller's products not conforming to this warranty and which have been returned to the manufacturer. No liability whatever shall attach to SELLER until said products have been paid for and such liability shall be strictly limited to the purchase price of the equipment shown to be defective. SELLER may make further warranty protection available on an optional extra-cost basis and which must be authorized and in writing.

Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by Greenheck prove defective during this period, they should be returned to the nearest authorized motor service station. Greenheck will not be responsible for any removal or installation costs.

Electrical components, excluding motors, are warranted only to the extent warranted by the original manufacturer. To the extent that SELLER is entitled to pass through a warranty of the original equipment manufacturer of the electrical goods sold, SELLER will pass through such warranties to Buyer.

ANY MISUSE, NEGLECT, FAILURE TO FOLLOW INSTRUCTIONS OR MANUALS OF INSTALLATION OF MAINTENANCE REPAIR, SERVICE, RELOCATION OR ALTERATION TO OR OF, OR OTHER TAMPERING WITH, THE PRODUCTS PERFORMED BY ANY PERSON OR ENTITY OTHER THAN SELLER WITHOUT SELLER'S PRIOR WRITTEN APPROVAL OR ANY USE OF REPLACEMENT PARTS NOT SUPPLIED BY SELLER, SHALL IMMEDIATELY VOID AND CANCEL ALL WARRANTIES WITH RESPECT TO THE AFFECTED PRODUCTS.

THE WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESSED OR IMPLIED, IN LAW OR IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. SELLER PROVIDES NO INDEPENDENT WARRANTY FOR THIRD PARTY PRODUCTS OR COMPONENTS SOLD TOGETHER OR INCORPORATED WITH SELLER'S PRODUCT(S).

AMCA

AMCA Licensed for Sound and Air Performance Without Appurtenances (Accessories). Power rating (BHP/kW) includes transmission losses.

Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP/kW) include transmission losses. The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi, LwiA, and outlet Lwo, LwoA sound power levels for installation type B: Free inlet, Ducted outlet. Outlet ratings include the effects of duct end correction.

The AMCA licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

NO STARTERS OR CONTROLS.

THIS QUOTE IS BASED ON THE FOLLOWING TERMS AND CONDITIONS:

- ■ This is a customer take-off. We are not responsible for models, accessories, quantities or sizes, and therefore, request that you check for accuracy.
- ■ This Quotation provides for standard delivery unless otherwise stated.
- ☐ This Quotation is in accordance with plans and specifications.
- ☐ This Quotation is an alternate to specified materials.
- ■ Prices include ground freight to South Florida.
- ■ Louvers as quoted **DO NOT** meet Miami-Dade County product approval unless otherwise indicated.
- ■ Prices are subject to all applicable taxes; shipments are FOB factory freight allowed to South Florida unless noted above.
- ■ Purchaser is subject to credit approval with credit terms as established on application unless prepayment has been made.
- ☐ Allow _____ day (s) for drawings.
- ☐ Allow _____ week (s) for fabrication after submittal approval and customer release.
- ■ The above is specially fabricated equipment. Upon release, any changes or cancellation will result in additional charges to the customer.
- ■ Credit **WILL NOT** be issued upon return of goods without first obtaining a RGA and may be subject to a restocking fee.

IMPORTANT NOTICE:

THE INFORMATION CONTAINED IN THIS FACSIMILE IS PRIVILEGED AND CONFIDENTIAL INFORMATION FOR THE EXPRESS USE OF THE PARTY NAMED ABOVE. PRICES GUARANTEED FOR A PERIOD OF SIXTY (60) DAYS FROM DATE OF BID/QUOTATION.

Accepted by: _____ Date: _____

OFFICE OF THE MAYOR
Diane Veitri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 009-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: _____ Date: 3/14/17

Print/Type Name: Jonathan Whistlan

Print/Type Company Name: Flanders Inc

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:

Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.

This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	X	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	X	
TRICO AUTO GREASERS	X	
ACCESS DOOR	X	
HOUSING DRAIN	X	
316 STAINLESS STEEL SHAFT	X	
316 STAINLESS STEEL WHEEL	X	
316 STAINLESS STEEL SUPPORT BASE	X	
INBOARD AND OUT BOARD SHAFT BEARINGS	X	
V-BELT DRIVE	X	
INLET FLEX CONNECTOR	X	
OULTER SCREEN	X	

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.		2	$ 32,775.00	$ 65,550.00
TOTAL		2	$ 32,775.00	$ 65,550.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME Flanders Inc

PHONE NUMBER 863-510-0555 x 4502

MAILING ADDRESS 2701 South Combee Rd

CITY-STATE –ZIP CODE Lakeland, FL 33803

FAX NUMBER 863-510-0550

E-MAIL ADDRESS jwoodham@flandersinc.com

PRINT NAME (Contact) Jonathan Woodham OR Billy Chapman

SIGNATURE

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Name: Betty Chapman

Name: Sandra Carrion

By: _____

Name: Jonathan Woodman

Title: Account Manager

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared JONATHAN WOODHAM, known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 14th day of MARCH, 2017.

Notary Public, State of FL

Sign: [signature]
Print: RACHEL COUCH
My Commission Expires: 12-11-18

RACHEL A. COUCH
MY COMMISSION # FF 182947
EXPIRES: December 11, 2018
Bonded Thru Notary Public Underwriters

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: FLANDERS

By (sign): Todd Griffin

Print Name: Todd Griffin

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared TODD GRIFFIN, (known to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 14th day of MARCH, 2017.

RACHEL A. COUCH
MY COMMISSION # FF 182947
EXPIRES: December 11, 2018
Bonded Thru Notary Public Underwriters

Notary Public, State of FL

Sign: Rachel A. Couch

Print: RACHEL A. COUCH

My Commission Expires: 12-11-18

(29)9001-14001

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: _____

Signed: _____

Printed Name of Signor: _____

Title of Signor: _____

Name of Firm: _____

N/A

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

(g)

The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 2

WB No. 009-17

Provide and deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 Ho Motor

City of Plantation

DATE OF ADDENDUM: February 27, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: What is the HP required?

Response: Blower has to be at least 20 HP (Currently have 20Hp Blower)

Question: Can you provide the dimensions of the blower you are requesting?

Response: Prospective Bidders must come take measurements in order to submit proper build submittal. Point of contact for site visits is below:

Brett Miller 954-326-7634
City of Plantation Water /Waste Water Plant Maintenance Superintendent

Question: Can you give the range of or the required voltage?

Response: The required voltage is 480 volt.

Question: Can you provide a picture of the current blower that needs to be replaced?

Response: (See attached picture)

Bids must be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: ESpencer@Plantation.org, via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 2 by returning it and/or acknowledging it in your bid.

COMPANY NAME: FLANDERS INC

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 1

WB No. 009-17

Provide and Deliver Two (2) Exhaust Blowers Capable of 28,000 CFM at 1" W.C. with a 20 HP Motor

City of Plantation

DATE OF ADDENDUM: February 17, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: Is this an inline Fan or Utility FAN?

Response: This is NOT a Fan it is a Centrifugal Blower

Question: Can you please provide application?

Response: The Blower is used to remove air from the generator room to assist in cooling.

Question: Can you give the range of or the required voltage?

Response: The required voltage is 480 volt.

Question: Can you provide an existing model number that we are matching or any data regarding the application and your requirements?

Response: There is no model number available, old unit is a Penn Ventilator Company Dynamo centrifugal blower. Site visit highly recommended for proper submittals to be made for City's approval. Vendors must measure and see blower configuration to properly bid and make proper submittals (See attached picture)

OFFICE OF THE MAYOR
Diane Veitri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

Bids must be submitted on or before March 14th, 2017, 11:00 A.M. Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: ESpencer@Plantation.org, via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

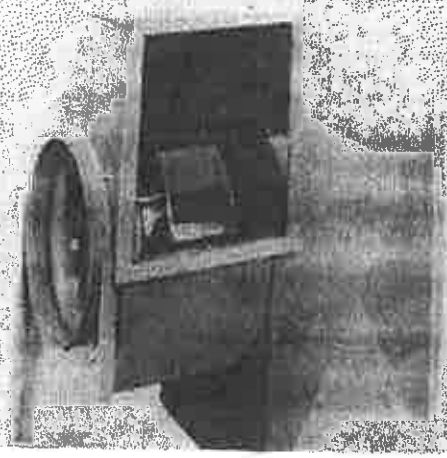
Please acknowledge receipt of this Addendum No. 1 by returning it and/or acknowledging it in your bid.

COMPANY NAME: Flanders Inc

PENN VENTILATOR CO., INC.
THE FAN COMPANY FOR THE 90'S AND BEYOND
RED LION & GANTRY RDS., PO BOX 52844, PHILA., PA 19115-7844
PHONE: (215) 464-8900 FAX: (215) 677-1647
69 JACQUES CARTIER N., PO BOX 28, FARNHAM, QUEBEC, CANADA J2N 2R4
PHONE: (514) 293-5317 FAX: (514) 293-6540

PARTS LIST, INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

DYNAMO CENTRIFUGAL BLOWER CLASS 1, S.W.S.I.



INSTALLATION

The ideal surface for mounting the Dynamo is on a level rein-
forced concrete floor. Determine the minimum safe floor load-
ing requirement for proper support by multiplying the tota
weight of the unit by two. Flexpads, neoprene mats and sprin
type isolators are available to reduce transmission of vibra
tion to the surrounding areas. [illegible] instal
tions on the next page.

OPERATION

Inspect the installed unit carefully befo
all motor bearings are properly lubricated. [illegible]
curely. Rotate blower wheels by hand to insu

OFFICE OF THE MAYOR
Diane Veitri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 009-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: _____ Date: 3-13-17

Print/Type Name: Peter Mitchell

Print/Type Company Name: Johnstone Supply/The Ware Group LLC

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

DATE: February 14, 2017

Written Bid No.: WB No. 009-17

WRTTEN BID
(Informal Competitive Bid)

ALL INTERESTED PARTIES:

The City of Plantation, Florida, hereinafter referred to as CITY, will receive Bids hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317, Email: ESpencer@Plantation.org, via Fax: (954) 797-2649, or Demand Star for:

Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

Bids must be received by methods mention above, no later than March 14, 2017 local time on 11:00am. Any bids received after 11:00am local time on said date will not be accepted under any circumstances. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

All questions should be submitted by email to espencer@plantation.org.

The CITY reserves the right to reject any or all bids, to re-advertise for bids or take any other such actions that may be deemed to be in the best interests of the CITY

Charles Spencer Jr.
Procurement Administrator

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:

Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.

This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	✓	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	✓	
TRICO AUTO GREASERS	✓	
ACCESS DOOR	✓	
HOUSING DRAIN	✓	
316 STAINLESS STEEL SHAFT	✓	
316 STAINLESS STEEL WHEEL		Aluminum
316 STAINLESS STEEL SUPPORT BASE	✓	
INBOARD AND OUT BOARD SHAFT BEARINGS	✓	
V-BELT DRIVE	✓	
INLET FLEX CONNECTOR	✓	
OULTER SCREEN	✓	

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.	HEE-DUALL	2	$ 33,695.00	$ 67,390.00
TOTAL			$	$ 67,390.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME Johnstone Supply/Ware Group LLC.

PHONE NUMBER 954-971-9350 / 954-226-0835

MAILING ADDRESS 5620 NW 12th Ave

CITY-STATE –ZIP CODE Fort Lauderdale FL 33309

FAX NUMBER

E-MAIL ADDRESS pete.mitchell@johnstonewaregroup.com

PRINT NAME (Contact) Pete Mitchell

SIGNATURE

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Name: LaDonna Harbeck

Name: Dan Benson

By:

Name: Peter Mitchell

Title: Govt. Sales Manager

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Peter Mitchell, known to be the persons described in or who has produced n/a as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 13th day of March, 20 17

GEMMA CAPELLANI
Notary Public - State of Florida
My Comm. Expires Oct 2, 2018
Commission # FF 165275

Notary Public, State of Florida

Sign: Gemma Capellani
Print: Gemma Capellani
My Commission Expires: 10/2/18

[64]9001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: Johnstone Supply

By (sign): [signature]

Print Name: Peter Mitchell

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared Peter Mitchell, known to be the persons described in or who has produced n/a as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 13th day of March, 2017.

GEMMA CAPELLANI
Notary Public - State of Florida
My Comm. Expires Oct 2, 2018
Commission # FF 165275

Notary Public, State of Florida

Sign: Gemma Capellani

Print: Gemma Capellani

My Commission Expires: 10/2/18

[29]9001-14001

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: 3-13-17

Signed: _____

Printed Name of Signor: Peter Mitchell

Title of Signor: Government Sales Manager

Name of Firm: Johnstone Supply/The Ware Group LLC.

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

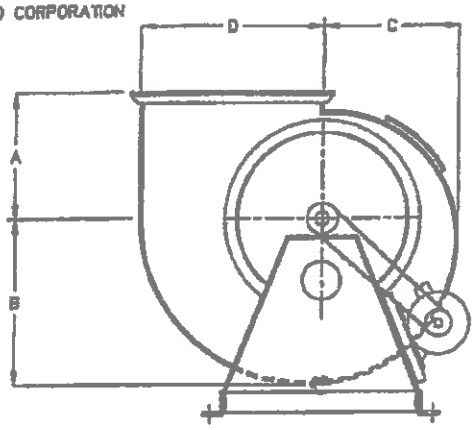
(g)

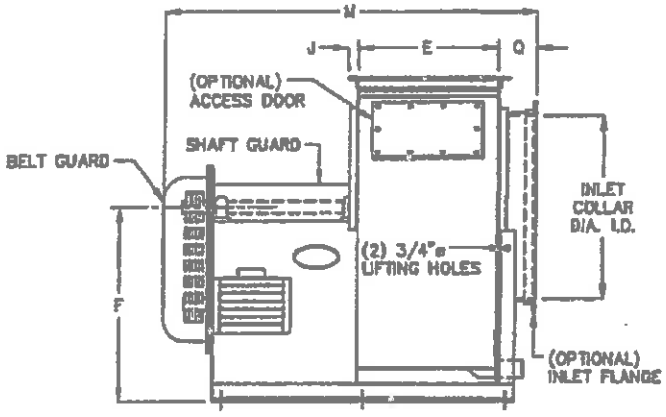
The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

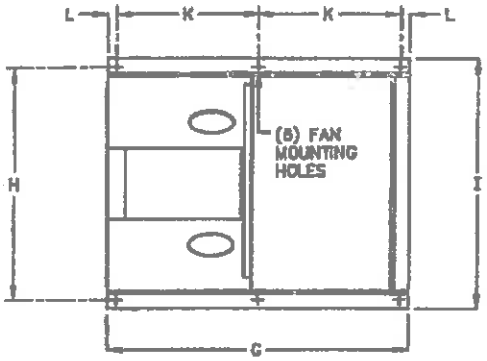
(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

© 1993 MET-PRO CORPORATION







MODEL NH–FAN

MET PRO CORPORATION

DUALL DIVISION
1550 INDUSTRIAL DRIVE
OWOSSO, MI 48867

DATE 3-3-17	DUALL JOB NO. 4945
MODEL & SIZE NH80½	FLOW RATE 28,000 CFM
ARRANGEMENT 9	STATIC PRESSURE 2.5 W.C."
CLASS II	FAN RPM
ROTATION TBD	BRAKE HP
DISCHARGE TBD	MOTOR RPM
MOTOR HP 25	460 V 3 PH 60 HZ

NOTE: THIS PRINT IS THE PROPERTY OF MET-PRO CORPORATION. IT MUST NOT BE REPRODUCED IN ANY MANNER, NOR SHALL IT BE SUBMITTED TO OUTSIDE PARTIES FOR EXAMINATION WITHOUT OUR WRITTEN CONSENT. IT SHALL BE USED ONLY AS A MEANS OF REFERENCE TO WORK DESIGNED OR FURNISHED BY US.

NOTE:

1. STANDARD MATERIALS ARE PVC, FRP, PP, & PVC/FRP.
2. WHEN 50 H.P. OR 60 H.P. MOTORS ARE TO BE MOUNTED IN ARR. #9 POSITION PEDESTAL BASE WILL BE FACTORY REINFORCED.
3. DRAWING DEPICTS ARR. 9 MOTOR MOUNTING.
4. CONSULT FACTORY FOR ARR. 1 BASE DIMENSIONS.
5. LEFT OR RIGHT HAND MOTOR POSITIONS ARE AVAILABLE FOR ARRANGEMENT 1 AND 9.

DIMENSIONS IN INCHES

FAN NO.	A	B	C	D I.D.	E I.D.	F	G	H	I	J	K	L	M	INLET I.D.	Q	SHAFT DIA.	BOLT HOLES DIA.	* AFWWM	** LMTFA9
24½	14 3/16	11 5/16	9¾	12¾	9¾	17¾	26 1/16	20	21¼	2	12 13/32	5/8	33⅜	13¼	6	1 5/16	½	310	5 H.P.
27	14¾	12⅜	10⅝	14	10¾	19	27 1/16	21	22¼	2	12 29/32	⅝	34 5/8	14¼	6	1 3/16	½	330	5 H.P.
30	15 5/16	13 11/16	11 11/16	15⅝	11¾	20⅜	35	22¾	24	2	16⅞	⅝	43	15½	6	1 7/16	½	410	10 H.P.
33	16 3/16	14 15/16	12⅝	17⅛	13⅛	22⅛	38⅞	24⅛	25⅜	2	18 13/16	⅝	43 5/16	17⅜	6	1 7/16	½	560	20 H.P.
36½	17⅜	16⅝	14	19	14½	24	39¾	25¾	27	2	19¼	⅝	48⅛	19¼	6	1 7/16	½	640	20 H.P.
40	18½	18 3/16	15⅜	20⅞	15⅞	25⅞	43⅛	28¾	30	2	20 15/16	⅝	51 3/16	21	6	1 11/16	½	840	30 H.P.
44½	19 13/16	20 5/16	17⅛	23¼	17⅝	28¼	45	32¼	33½	2	21⅞	⅝	52	23⅛	6	1 11/16	½	865	30 H.P.
49	21⅛	22¼	18 13/16	25½	19½	30½	47½	34⅜	35⅝	2	23⅛	⅝	55 9/16	26	6	1 15/16	½	925	30 H.P.
54	22 11/16	24 9/16	20¾	28⅛	21½	33⅛	49½	37⅜	38¼	2	23⅞	⅞	57 13/16	29	6	1 15/16	½	1,045	30 H.P.
60	24 9/16	27 3/16	23	31¼	23¾	36¼	51⅞	40¾	42½	2	25 1/16	⅞	60 9/16	32	6	2 3/16	½	1,155	30 H.P.
66	26⅜	30	25 9/16	34⅜	26¼	39⅜	55½	45¼	47	2	26⅞	⅞	63 13/16	34½	6	2 7/16	⅝	1,345	30 H.P.
73	28⅝	33 3/16	28	38	29	43	59¼	49¼	51	2	28¾	⅞	66 11/16	38½	6	2 7/16	⅝	1,830	50 H.P.
80½	30 15/16	36 9/16	30⅞	42	32	47	63	54¼	56	2	30⅝	⅞	72	42¼	8	2 11/16	⅝	2,010	50 H.P.
89	33 3/16	40½	34 5/32	46½	35⅜	51½	66⅞	59¼	61	2	32 9/16	⅞	76 9/16	46¼	8	2 15/16	⅝	2,260	50 H.P.
98	36 11/16	44 9/16	37⅜	51⅛	39	56⅛	77½	65¼	67	2	37⅞	⅞	81 3/16	51¼	8	3 3/16	⅝	2,825	60 H.P.
108½	39¾	49 5/16	41⅝	56½	43⅛	61½	81½	70¼	72	2	39⅞	⅞	91 13/16	56	8	3 7/16	⅝	2,960	60 H.P.
120	43 7/16	54 9/16	46 1/16	62½	47¾	67½	86	76¼	78	2	42⅛	⅞	98⅜	62	8	3 15/16	⅝	3,515	60 H.P.

NOTES:

* AFWWM = APPROXIMATE FAN WEIGHT W/ LARGEST ARR. #9 MOTOR.

** LMTFA9 = LARGEST MOTOR TO FIT ARRANGEMENT #9 POSITION. BASED ON SINGLE SPEED TEFC T-FRAME MOTORS. IF THERE IS ANY CONCERN ABOUT MOTOR LOCATION CONTACT DUALL ENGINEEERING DEPARTMENT FOR PROPER LOCATION OF MOTOR & FAN FOOTPRINT INFORMATION

CAD NO. NHFAN-S
DATE: 7/21/00

Typical NH Series Centrifugal DUALLast® FRP Exhaust Fan

With hot ~~dip galvanized steel fan frame~~ for long term outdoor service
STAINLESS Steel 316 frame

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

City of Plantation
Procurement Division
WRITTEN BID LETTER
(Informal Competitive Bid)

We propose to furnish all labor, materials, equipment, incidentals, and permits for City of Plantation Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the attached specifications for the unit prices indicated on the attached Written Bid (WB) form for which the prices have been set. The price or prices offered herein shall apply for the time stated in the WB No. 009-17

We further agree to strictly abide by all the terms and conditions contained in the WB. Any exceptions to the requirements of the WB, the terms and condition of the proposed agreement shall be noted in writing, with detailed explanation, and included with this Bid. The Respondent acknowledges that taking exception may subject this Written Bid to be rejected.

It is understood and agreed that this Written Bid constitutes an offer, which when accepted in writing by the City of Plantation and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and the City of Plantation.

It is understood and agreed that we have read and understood the scope of work presented in the technical specifications. We further agree, if awarded a contract, to deliver goods and services that meet or exceed the specifications.

The prices offered herein shall be valid for a period of sixty (60) days from Written Bid Due Date.

WRITTEN BID SIGNATURES AND CERTIFICATIONS
(Bidder- Sign and return with Bid)

I certify that, if awarded a contract, the Respondent will furnish all labor, materials, equipment, incidentals, and permits for the City of Plantation Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor, as indicated in the specifications and plans for the unit prices indicated on the attached WB, the Written Bid and the terms of the final contract between the Respondent and City of Plantation.

1. I certify on behalf of the Respondent that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, or services and is in all respects fair and without collusion or fraud. I understand that collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the Written Bid and certify that I am authorized to sign this Written Bid for the Respondent.

2. I certify that this Written Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. I understand collusive quoting is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of this WB and certify that I am authorized to sign this Written Bid for the Respondent.

Authorized Signature: Jose G. Espinola Date: 3/10/2017

Print/Type Name: JOSE G. ESPINOLA

Print/Type Company Name: CONDO ELECTRIC INDUSTRIAL SUPPLY, INC.

GENERAL SPECIFICATIONS

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

City of Plantation Utilities Department

SCOPE:
The City of Plantation, Florida (The City) is seeking bids from qualified bidders, hereinafter referred to as the Contractor, to Provide and Deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor to the City's Utilities Department, in accordance with the terms, conditions, and specifications contained in this Written Bid (WB).

Term:
It is the City's intention to purchase Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor during fiscal year 2017. Contingent upon Budget approval. Pricing shall be inclusive and include all components as listed, delivery, shipping charges and/or any charges, fees, etc. (if any) must be include in the quoted price. No additional fees, charges, special delivery charges etc. above the quoted price will be paid for any order. Delivery of Blowers shall be made to FOB Destination shall be made within 14 weeks of purchase order being submitted to the winning bidder.

City of Plantations' fiscal year starts October 1st and ends September 30th.

Corrections:
No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the Bid.

Clarifications:
Any inquiries or suggestions concerning interpretation, clarification, or additional information pertaining to the Bid shall be made through Charles Spencer Jr. in writing or through email.

Indemnity Clause:
Contractor shall indemnify and hold harmless City, and its elected and appointed officers, the officers, directors, employees, agents and other consultants of each of them, from and against any and all liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Contractor and other persons employed or utilized by the Contractor in the performance of this Agreement. Contractor agrees to indemnity, defend, save and hold harmless the City, its officers, agents and employees, from all damages, liabilities, losses, claims, fines and fees, and from any and all suits and actions of every name and description that may be brought against City, its officers, agents and employees, on account of any claims, fees, royalties, or costs for any invention or patent or for the infringement of any and all copyrights or patent rights claimed by any person, firm, or corporation.
This indemnity includes but is not limited to claims attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property, including the Work itself, and including the loss of use resulting therefrom.

Payment of any amount due pursuant to the foregoing indemnity shall, after receipt of written notice by Contractor from the City that such amount is due, be made by Contractor prior to the City being required to pay same, or in the alternative, the City, at the City's option, may make payment of an amount so due and Contractor shall promptly reimburse the City for same, together with interest thereon at the statutory rate from the date of receipt by Contractor of written notice from the City that such payment is due. Contractor agrees, at Contractor's expense, after written notice from the City, to defend any action against the City that falls within the scope of this indemnity, or the City, at the City's option, may elect not to tender such defense and may elect instead to secure its own attorney to defend any such action and the reasonable costs and expenses of such attorney incurred in defending such action shall be payable by Contractor. Additionally, if Contractor, after receipt of written notices from the City, fails to make any payment due hereunder to the City, Contractor shall pay any reasonable attorney's fees or costs incurred by the City in securing any such payment from Contractor.

Nothing contained herein is intended nor shall it be construed to waive the City's rights and immunities under the common law or Florida Statute §768.28 as amended from time to time. This obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist in the City's favor.

Deviations to Specifications and Requirements:
When bidding on an "or equal," Bids must be accompanied with all descriptive information necessary for an evaluation of the proposed material or equipment such as the detailed drawings and specifications, certified operation and test data, and experience records. Failure of any bidder to furnish the data necessary to determine whether the product is equivalent, may be cause for rejection of the specific items(s) to which it pertains. All deviations from the specifications must be noted in detail by the bidder. Any deviation from the specifications as written and accepted by the City may be grounds for rejection of the material and/or equipment when delivered. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Quality Guaranty:
All materials used for the manufacture or construction of any supplies, materials or equipment covered by this bid shall be new; the latest model, of the best quality, and highest grade workmanship. The machine(s) shall have all equipment which is normally standard, plus any additional equipment as specified herein. The equipment delivered under this bid shall remain the property of the seller, until a physical inspection and actual operation of the equipment show it to be in compliance with the specifications. If any product delivered does not meet applicable specifications or if the product will not produce the effect that the bidder represents to the City, the bidder shall pick up the product from the City at no expense. Also, the bidder shall refund the City any money which has been paid for same. The bidder will be responsible for attorney fees in the event the bidder defaults and court action is required. Bids will be considered only on equipment which can, on short notice, be serviced and maintained by the bidder. The bidder must maintain a normal supply of repair parts and be equipped with personnel and facilities to provide such service as necessary to keep the equipment in operation with minimal delay.

Quality Terms:
The City reserves the right to reject any or all material if, in its judgment, the item reflects unsatisfactory workmanship, manufacturing, or shipping damages.

Tax-Exempt:
The City is exempt from sales tax and Federal Excise Taxes.

Exceptions:
The intent of this specification is not to eliminate any prospective bidder from competing in the bidding process, provided the specification is met or exceeded. Exceptions to the specifications outlined shall be allowed assuming the following criterion:
The noted exceptions taken meet or exceed the function, quality, and protective requirements designated by the specification. In addition, each exception shall be identified by section number and thoroughly described in a word document or PDF file and included in the bid package at time of submittal. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

OSHA:
The bidder warrants that the product supplied to the City of Plantation shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. Any fines levied because of inadequacies to comply with these requirements shall be borne solely by the bidder responsible for same.

WARRANTY:
The successful Contractor shall warrant that all equipment furnished hereunder is of first class material and workmanship, complies in all aspects with the design and specification of these documents, and contains no defect of material or workmanship. In the event of failure of any part or parts of the equipment during the first two (2) years after the City acceptance, not to exceed three (3) years from Contractor's shipment/invoice date, provided that the equipment has been operated in accordance with its intended use, the affected part or parts shall be replaced promptly up notice by the owner at the sole expense of the Contractor. Warranty information for all equipment furnished shall be described in detail and attached to the submitted Bid form and on the proposed Agreement.

EQUAL PRODUCT:
Manufacturer's brand name and model number are used in these specifications for the purpose of establishing minimum requirement level of quality and standards of performance and design required. This is in no way intended to prohibit the bidding of other manufacturer's items of equal material and function, unless otherwise indicated. Equal (substitution) may be bid, providing the product bid is found to be equal in quality, standards of performance, design, etc. to item specified, unless otherwise indicated. **Where equal is proposed, bid must be accompanied by complete factory information sheets (specifications, brochures, etc.) documenting the equipment bid as equal.** The City, after evaluation of the documentation submitted, will determine if products is approved as equal to the specified request.

PRODUCTS:

A. All equipment including the exhaust blowers, motor, shaft, and wheel base shall be new from the factory or fabricator. Reused or refurbished parts or equipment shall not be accepted.

Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.

A. General

1. The Blower construction shall be fiberglass reinforced plastic (FRP) or similar corrosion-resistant, UV resistance thermoplastic material. All metal parts shall be 316 stainless steel. (no carbon steel or coated carbon steel will be accepted) Blower shall be designed for continuous service

INSTALLATION:

A. The City will furnish all labor, tools, equipment and machinery to receive and install the Exhaust Blowers completely to proper operating condition.

EXHAUST BLOWERS CAPABLE OF 28,000 CFM AT 1" W.C. WITH A 20 HP MOTOR		
EXHAUST BLOWER	YES	EXCEPTION
28,000 FM @ 1" W.C.	YES	
20 HORSE POWER PREMIUM EFFICIENCY MOTOR	YES	
TRICO AUTO GREASERS	YES	
ACCESS DOOR	YES	
HOUSING DRAIN	YES	
316 STAINLESS STEEL SHAFT	YES	
316 STAINLESS STEEL WHEEL	YES	
316 STAINLESS STEEL SUPPORT BASE	YES	
INBOARD AND OUT BOARD SHAFT BEARINGS	YES	
V-BELT DRIVE	YES	
INLET FLEX CONNECTOR	YES	
OULTER SCREEN	YES	

Bidder's Response Section

Description	BRAND	QTY	UNIT COST	TOTAL COST
Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 HP motor.		2	$ 24,510.00	$49,020.00
TOTAL			$	$49,020.00

Note: *Any exceptions from the above listed detailed specifications should be addressed in detail in writing by the submitting vendor/contractor. Equivalent will be accepted with full specifications provided & site visit to confirm size and orientation.

Submittals shall be sent to the below within 6 weeks of purchase.

Site Visit: Brett Miller (#954-326-7634)
Central Water Plant
700 NW 91 Ave.

Shipping Terms:
FOB shall be:

City of Plantation Central Water Treatment Plant
Attn: Brett Miller
700 NW 91st Avenue
Plantation, Florida 33324

VENDOR NAME CONDO ELECTRIC INDUSTRIAL SUPPLY, INC.

PHONE NUMBER 305 691-5400

MAILING ADDRESS P.O. 3340

CITY-STATE –ZIP CODE HIALEAH, FLORIDA 33013

FAX NUMBER 305 691-6564

E-MAIL ADDRESS CONDOEL@BELLSOUTH.NET

PRINT NAME (Contact) JOSE G. ESPINOLA

SIGNATURE Jose G. Espinola

TO BE RETURNED WITH BID

Cooperation with the Broward County Office of Inspector General

The Broward County Office of Inspector General ("OIG") has the authority to review and investigate how governmental contracts are performed and how contractors and vendors (herein, "CONTRACTORS") are paid. To this end, CONTRACTOR agrees to cooperate with the OIG in the event the Contractor is contacted by the OIG. Such cooperation shall include, answering any questions that may be posed by the OIG, and allowing the OIG to review and copy any of CONTRACTOR's written material, contract documentation, and financial records that may relate to the formulation, execution, and performance of this Contract. The CONTRACTOR acknowledges and agrees that whatever work or effort is expended by CONTRACTOR in interfacing with the OIG is part of the administrative or overhead or base costs of the services provided by the CONTRACTOR to the CITY, and shall never be a basis for claiming extra or additional compensation under this Contract, or for requesting a change order.

The CONTRACTOR's failure to cooperate fully with the OIG as required by the preceding clause shall be a basis for the City claiming the CONTRACTOR is in default, and may, if not timely cured, allow the City to terminate this Contract for cause. Unless the CONTRACTOR is instructed otherwise in a specific written and notarized Order signed by the Broward County Inspector General, CONTRACTOR shall advise CITY, in writing and in the same manner as Contractor gives the City formal notice under this Contract, each instance, if ever, that the CONTRACTOR is contacted by the OIG, and shall supply the City with information necessary to allow the City to ensure that the Contractor is fully performing the requirements of this Paragraph.

Witnesses:

Name: MARY BIALECK

Name: DENISE CARBALLEA

By: _____

Name: JOSE G. ESPINOLA

Title: PRESIDENT

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared JOSE G. ESPINOLA KNOWN, (known) to be the persons described in or who has produced _____ as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 10TH day of MARCH, 2017.

Notary Public, State of FLORIDA

Sign: _____
Print: MIRTA M. AMADOR
My Commission Expires: SEPT 22, 2017

[64]P001-14001

COMPLIANCE UNDER SECTION 119.0701

FLORIDA STATUTES, ON PUBLIC RECORDS

TO BE RETURNED WITH BID

The Contractor hereby certifies that it shall comply with public records laws, specifically to:

(a) Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.

(b) Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

(c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

(d) Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

As the person authorized to sign this statement, I certify that this Contractor agrees to comply with the above requirements.

Contractor: CONDO ELECTRIC INDUSTRIAL SUPPLY, INC.

By (sign): _____

Print Name: JOSE G. ESPINOLA

STATE OF)
COUNTY OF)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgements, personally appeared JOSE G. ESPINOLA, (known) to be the persons described in or who has produced KNOWN as identification and who executed the foregoing instrument and acknowledged before me that they executed the same for the purposes therein expressed.

WITNESS my hand and official seal in the County and State last aforesaid this 10TH day of MARCH, 2017

MIRTA M. AMADOR
Notary Public - State of Florida
My Comm. Expires Sep 22, 2017
Commission # FF 023124

[29]9001-14001

Notary Public, State of FLORIDA

Sign: _____

Print: MIRTA M. AMADOR

My Commission Expires: SEPT. 22, 2017

Local Business Certification Form

The undersigned affirms as true, under penalties of perjury, as follows:

The undersigned, a principal or corporate officer of the business listed below, has read and is familiar with the provisions of City of Plantation Ordinance Number 2437, § 1 which codified Section 2-227 of the City Code.

Pursuant to Section 255.0991, for a competitive solicitation for construction services in which 50 percent or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of this competitive solicitation, Section 2-227 of the City Code **shall not** apply.

The undersigned, as such principal or corporate officer, further certifies to the best of his/her information and belief that such business is a Local Business as defined by the Code.

The undersigned claims qualification in the event that the Local Business Preference applies to this procurement and the business is determined to be a Qualified Local Business as defined by the Code.

Dated: MARCH 10, 2017

Signed: _____

Printed Name of Signor: JOSE G. ESPINOLA

Title of Signor: PRESIDENT

Name of Firm: CONDO ELECTRIC INDUSTRIAL SUPPLY, INC.

Sec. 2-227. - Local business preference.

(a)

Definitions. For purposes of this section, the following terms shall have the respective meanings as set forth in this subsection:

Business location means a permanent office or other use of property in which a vendor operates, conducts, engages in or carries on all or a portion of its business, provided that the mere use of a post office box shall not be sufficient to constitute a business location under this provision.

Local business means a vendor or contractor who has paid its local business tax to the City of Plantation at least six (6) months prior to bid or proposal opening date; does business in the city community by providing goods, services, or construction; and maintains a physical business address located within the jurisdictional limits of the city in an area zoned for the conduct of such business from which the vendor or contractor operates or performs business on a day-to-day basis. Post office boxes shall not be used for the purpose of establishing said physical address.

Qualified local business means a local business that satisfies the requirements under the bid or proposal guidelines to perform the services or goods requested.

Vendor means a sole proprietorship, partnership, corporation, limited partnership or limited liability corporation or other recognized business entity that offers to contract with the city for either goods or services.

(b)

Procedure; notice of option to match lowest response. The city shall give a preference to a qualified local business that responds to competitive procurement in the following manner:

(1)

If a qualified local business submits a response to one (1) of the city's competitive procurement processes set forth in section 2-220(b) (requests for sealed proposals) (but only where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will be available), (d) (requests for competitive proposals), 2-220(e) (sealed bids in response to an invitation to bid), and 2-220(f) (design build projects which are procured using a competitive proposal process), or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments, and the original response of the qualified local business is within five (5) percent of the low response, then the city shall give the qualified local business the opportunity to meet the price of the low response. The order of preference by which the qualified local business shall be given the opportunity to match the low response shall be from the lowest to the highest response, as long as the initial response was within five (5) percent of the low response.

(2)

The city shall give the qualified local business written notice of the opportunity to match the price of the low response within five (5) business days of determining the low response. There shall only be one (1) valid notice of an opportunity to match the price of the low response outstanding at any one (1) point in time. Notice shall be deemed received by the qualified local business by mailing or otherwise transmitting the notice to the address, email, facsimile or otherwise that was supplied by the qualified local business at the time of responding.

(3)

The qualified local business to whom a written notice has been mailed or otherwise transmitted must respond to the city in writing. If the qualified local business fails to file a response to the notice with the city within two (2) days of the posting or transmission of the notification of the

option to match the low response, then the failure to respond shall be deemed to be a denial of the opportunity to match the low response. Should the qualified local business choose to meet the price of the low response, then the city shall award the contract to the qualified local business. If no qualified local business accepts the option to match the low response, then the contract shall be offered to the lowest responder.

(c)

Disclosure. The requirements of the city's local policy shall be disclosed in all the city's competitive procurement processes to which this preference applies or informal purchases in excess of the current amount of three thousand five hundred sixty-nine dollars ($3,569.00), as referenced and indexed in section 2-226(b) and as may be increased or decreased by authorized adjustments.

(d)

Exceptions. The procurement preference set forth in this section shall not apply to any of the following purchases or contracts:

(1)

Goods or services provided under a cooperative purchasing agreement or interlocal agreement;

(2)

Purchases or contracts which are funded, in whole or in part, by a governmental entity where the laws, regulations, or policies governing such funding prohibit or prevent the application of the preference;

(3)

Purchases made or contracts let under emergency or noncompetitive situations;

(4)

Purchases with an estimated cost of less than the amount stipulated for informal bids, as referenced and indexed in section 2-226(b) (which is currently three thousand five hundred sixty-nine dollars ($3,569.00)) and as may be increased or decreased by authorized adjustments;

(5)

Purchases or contracts procured utilizing procurement processes set forth in section 2-220(b) (requests for sealed proposals) (except where the procurement documents in a request for sealed proposals expressly indicates that the local business preference created by this section will apply) (c), (requests for qualifications), and (g) (design build projects and professional services contracts which are competitively procured using a qualifications based procurement process); and,

(6)

Notwithstanding the above, any purchase using any of the available procurement processes in this Code wherein the procurement documents expressly indicate that the local business preference set forth in this section shall not be available.

(e)

The application of local preference to a particular purchase, contract, or category of contracts for which the city council is the awarding authority may be waived upon written justification and recommendation by the mayor and approval of the city council.

(f)

The preference established in this section does not prohibit the right of the city council or the mayor to compare quality or fitness for use of supplies, materials, equipment and services proposed for purchase and compare qualifications, character, responsibility and fitness of all persons, firms, or corporations submitting bids or proposals.

(g)

The response preference established in this section does not prohibit the city council, or mayor, from giving any other preference permitted by law in addition to the preference authorized in this section.

(Ord. No. 2437, § 1, 2-10-2010)

[96]9001-14001

CONDO-4 OP ID: IL

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/07/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
BROWN & BROWN OF FLORIDA INC
14900 NW 79th Court Suite#200
Miami Lakes, FL 33016-5869
Patricia FS Mendoza

CONTACT NAME: Patricia FS Mendoza
PHONE (A/C, No, Ext): 305-364-7800 FAX (A/C, No): 305-714-4401
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Hartford Fire Ins. Co.	19682
INSURER B : Hartford Fire Ins. Co.	19682
INSURER C : Twin City Fire Ins. Company	29459
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Condo Electric Motor Repair Corporation
Condo Electric & Industrial Supply, Inc.
P.O. Box 3340
Hialeah, FL 33013-0340

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			21CESOF5987	10/22/2016	10/22/2017	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
	X XCU Included						MED EXP (Any one person)	$ 10,000
	X Contractural Liab						PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:						Emp Ben.	$ 1,000,000
B	AUTOMOBILE LIABILITY			21UUNLH6921	10/22/2016	10/22/2017	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS / X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
C	UMBRELLA LIAB X OCCUR			21XSON0583	10/22/2016	10/22/2017	EACH OCCURRENCE	$ 2,000,000
	X EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 2,000,000
	DED RETENTION $ 0							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N	N / A					E.L. EACH ACCIDENT	$
	(Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
B	Garage Keepers			21UUNLH6921	10/22/2016	10/22/2017	Collision	80,000
	Legal Liability						Comprehen	80,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CG 22 68 09 97 - Operation of Customers Autos on Particular Premises Included in General Liability Coverage.

WB NO. 009-17

CERTIFICATE HOLDER

CITYPLT

City of Plantation
400 NW 73rd Avenue
Miami, FL 33126

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Brown and Brown of Florida, Inc.

© 1988-2014 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 06/23/16

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Aon Risk Services, Inc of Florida
1001 Brickell Bay Drive, Suite #1100
Miami, FL 33131-4937

CONTACT NAME: Aon Risk Services, Inc of Florida
PHONE (A/C, No, Ext): 800-743-8130 FAX (A/C, No): 800-522-7514
EMAIL ADDRESS: ADP.COI.Center@Aon.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Illinois National Insurance Co	23817
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
ADP TotalSource FL XI, Inc.
10200 Sunset Drive
Miami, Fl. 33173
ALTERNATE EMPLOYER
Condo Electric Motor Repair, Corp.
3746 E 10th Ct
Hialeah, FL 33013

COVERAGES **CERTIFICATE NUMBER:** 1330180 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. LIMITS SHOWN ARE AS REQUESTED.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	CLAIMS-MADE / OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	POLICY / PROJECT / LOC						PRODUCTS - COMP/OP AGG	$
	OTHER							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB / OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$
	DEC / RETENTION $							
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC 061139701 FL	07/01/16	07/01/17	X PER STATUTE / OTH-ER	
							E.L. EACH ACCIDENT	$ 2,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 2,000,000
							E.L. DISEASE - POLICY LIMIT	$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
All worksite employees working for CONDO ELECTRIC MOTOR REPAIR, CORP., paid under ADP TOTALSOURCE, INC.'s payroll, are covered under the above stated policy. CONDO ELECTRIC MOTOR REPAIR, CORP. is an alternate employer under this policy.

CERTIFICATE HOLDER

City of Plantation
400 N.W. 73 Avenue
ITB No: 002-14
Plantation, FL 33317

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services, Inc of Florida

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 2

WB No. 009-17

Provide and deliver Two (2) Exhaust Blowers capable of 28,000 CFM at 1" W.C. with a 20 Ho Motor

City of Plantation

DATE OF ADDENDUM: February 27, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: What is the HP required?

Response: Blower has to be at least 20 HP (Currently have 20Hp Blower)

Question: Can you provide the dimensions of the blower you are requesting?

Response: Prospective Bidders must come take measurements in order to submit proper build submittal. Point of contact for site visits is below:

Brett Miller 954-326-7634
City of Plantation Water /Waste Water Plant Maintenance Superintendent

Question: Can you give the range of or the required voltage?

Response: The requited voltage is 480 volt.

Question: Can you provide a picture of the current blower that needs to be replaced?

Response: (See attached picture)

Bids must be submitted on or before March 14th, 2017, **11:00 A.M.** Bids may be hand delivered to City Hall, 400 NW 73 Avenue, Plantation, Florida 33317; Email: ESperanza@Plantation.org, via Fax: (954) 797-2649; or Demand Star.

All other terms, conditions and specifications remain unchanged for WB No.009-17.

Please acknowledge receipt of this Addendum No. 2 by returning it and/or acknowledging it in your bid.

COMPANY NAME: CONDO ELECTRIC INDUSTRIAL SUPPLY, INC.

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

ADDENDUM No. 1

WB No. 009-17

Provide and Deliver Two (2) Exhaust Blowers Capable of 28,000 CFM at 1" W.C. with a 20 HP Motor

City of Plantation

DATE OF ADDENDUM: February 17, 2017

TO ALL PROSPECTIVE BIDDERS:

The following clarification, changes, additions and/or deletions are hereby made part of the Bid Documents for WB No. 009-17.

General Questions

Question: Is this an inline Fan or Utility FAN?

Response: This is NOT a Fan it is a Centrifugal Blower

Question: Can you please provide application?

Response: The Blower is used to remove air from the generator room to assist in cooling.

Question: Can you give the range of or the required voltage?

Response: The requited voltage is 480 volt.

Question: Can you provide an existing model number that we are matching or any data regarding the application and your requirements?

Response: There is no model number available, old unit is a Penn Ventilator Company Dynamo centrifugal blower. Site visit highly recommended for proper submittals to be made for City's approval. Vendors must measure and see blower configuration to properly bid and make proper submittals (See attached picture) .

COMPANY NAME: CONDO ELECTRIC INDUSTRIAL SUPPLY, INC/

Hartzell Fans will come with a 5 year warranty.

Item #1 **Fan Selection:**
A41P0-362FA100FGFCQ3
41P - Fiberglass Backward Curved Centrifugal Fan, Packaged
Performance
Volume Flow Rate: 28000.0 cfm
SP: 1.0 in. w.g. / TP: 1.95 in. w.g.
RPM: 1228.0
Density: 0.0749 lbs/ft^3
Operating Temp: 70 °F
OPwr: 21.843 hp / SPwr: 21.872 hp
Motor
HP: Q - 25 HP
RPM/Volt/Hz/Phase: 3 - 1750, 230/460, 60, 3
Enclosure: FC - TEFC, 1.15 S.F.
Frame Size: 284T
Drive Option: Multiple Groove Fixed Pitch
Operating Voltage: 460
Vendor: TECO

Rep Proposal #:

Hartzell Air Movement Terms and Conditions

ISO 9001:2008 REGISTERED

AMCA INTERNATIONAL MEMBER

ABS

Fan
Rotation and Discharge: Top Horizontal (Clockwise)
Motor Position: Standard
Material: Fiberglass
Construction: Standard
Coating: Standard
Standard Accessories (Included)
Neoprene Shaft Seal
Water Slinger
Undrilled Outlet Flange, Fiberglass
304SS Hardware to Fan Airstream Only
Additional Accessories
Bolted Access Door, Fiberglass
Drain, Fiberglass w/ PVC Plug (Factory Installed)
Extended Lube Lines to Fan & Motor Bearings, 316SS
316SS Shaft
Drilled Inlet Flange, Fiberglass
Outlet Guard - 316SS
*****Extended Lube Lines to Motor Bearings apply only to relubricable motors.**
Tag: Config-120084

SERIES 41P GUIDE SPECIFICATION

FIBERGLASS BACKWARD CURVED CENTRIFUGAL FAN, PACKAGED

The belt drive Fiberglass Backward Curved Centrifugal Fan, Packaged shall be manufactured by Hartzell Air Movement, Series 41P, Arrg. 10, in Class II construction. Standard sizes are 12" through 36". Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing, for sizes 12 through 36 shall be field rotatable and the discharge shall be any of the eight AMCA standard positions. The fan shall be completely assembled, packaged and ready to install.

The resin used on the solid fiberglass FA-Type wheel shall be Dow Derakane 510-A vinylester. Backward curved blades offer non-loading, highly efficient operation. The wheel shall have a totally encapsulated aluminum core insert for secure attachment to the shaft. The wheel shall be one-piece, resin transfer molded, without hand lay-up or assembly of components. The fan shall be suitable for temperatures up to 250° F.

Fan housing shall be constructed of Ashland Hetron 693 polyester resin and glass fiber with 3% antimony trioxide added to achieve Class I flame spread below 25. All fiberglass surfaces shall be protected with a minimum 10 mil thickness of chemical, flame and ultraviolet resistant resin. The inlet cone shall be solid fiberglass. The entire housing shall have a finish coat of resin to provide superior protection and smooth airflow. All airstream hardware shall be 304 stainless steel. Fan drive base shall be epoxy coated steel.

Fan shaft shall be ground and polished carbon steel with an FRP sleeve in the airstream. Bearings shall be heavy-duty, self-aligning, with extended lube tubes for continuous service, with a minimum of 50,000 hours L_{10} life. A neoprene shaft seal shall be located where the shaft enters the housing with a neoprene shaft slinger between the seal and wheel. V-belt drives shall be sized for continuous service.

The fan assembly shall be dynamically balanced at the Hartzell factory prior to shipping. Fans shall be balanced in accordance with AMCA Standard 204-96, fan application category BV-3 (comparable to Grade G6.3). Fans shall be manufactured in accordance with Hartzell's standard quality assurance procedures. Fan performance shall be based on tests conducted in Hartzell's AMCA accredited test laboratory and in accordance with the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound. Fans shall be licensed to bear the AMCA Certified Ratings Seal for Sound and Air Performance.

ACCESSORIES:

- Weather Cover - Combines guarding of motor and drive as well as providing protection from the weather.
- Safety Guards - Fits on inlet or outlet of fan. Made of epoxy coated steel.
- Vibration Isolators - For horizontal floor mount. Available in rubber-in-shear or spring type.
- Drain - CPVC bulkhead fitting assembled in housing, 1" female fitting.
- Inlet Dampers - Used to control volume. Standard construction is available through 7" and 3000 FPM, and is epoxy coated steel.

- Surfacing Veil - Either Nexus Veil (standard) or C Glass Veil applied to the airstream fan parts, with an additional coat of resin.
- Electrical Grounding - Air stream surfaces are coated with a carbon rich coating with grounding straps to the motor frame. User must properly ground the equipment at the installation.
- Motors - OEDP standard. TEFC and other special motors are available upon request.
- Access Door - Raised, bolted door held in place with stainless steel bolts and gasketed.
- Inspection Door - Small opening for visual inspection of wheel. Gasketed and held in place with stainless steel bolts.
- Flanged Inlet - Solid fiberglass inlet flange, available drilled or undrilled.
- Special Hardware - 316 stainless steel or Monel for special chemical environments.
- Outlet Dampers - Epoxy coated steel or stainless steel, either parallel or opposed blade type. Solid fiberglass backdraft dampers are also available.
- Height Adjusting Sub-Base - Epoxy coated to accommodate B.A.D., B.H, and B.A.U. discharge.
- Abrasion/Erosion Resistant Coating (HartKoate) - Particularly useful when water mist and/or abrasive particles exist in the air stream.
- Conformance to ASTM D4167-97 requirements.

Hartzell Since 1875

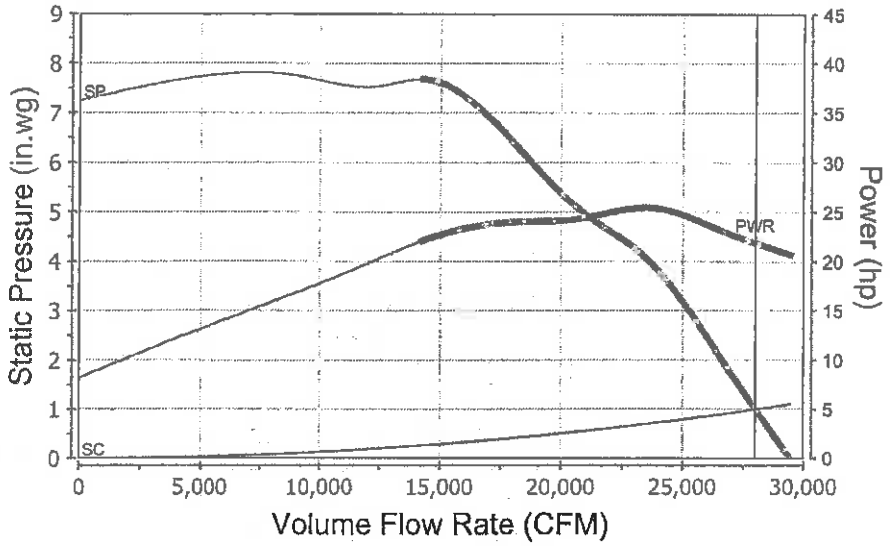
Quality • Value • Commitment

AIR MOVEMENT

Fan Tag#:

Hartzell-FLOW™ v1.0.16 / July 2016

A41P0-362FA100FGFCQ3



— System Curve — Static Pressure (in.wg) — AMCA Certified — Power

— AMCA Certified

Vol Flow Rate	28000
Pressure	1
Density (lbs/ft³)	0.075
Oper. Temp. (°F)	70
Fan RPM	1228
Max Safe RPM	1538
Operating Power	21.843
Standard Power	21.872
Static Efficiency	0.202
Outlet Velocity (fpm)	3905
Fan Efficiency Grade (FEG)	FEG85

Discharge Sound Power Levels referred to 10^-12 watts							
1	2	3	4	5	6	7	8
105	100	100	98	106	96	85	79

Radiated Sound Power Levels referred to 10^-12 watts							
1	2	3	4	5	6	7	8
101	93	90	87	94	83	72	66
Radiated Sound is not AMCA Licensed							

Hartzell Air Movement certifies that the model shown is licensed to bear the AMCA Seal.
The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.
Power rating BHP excludes transmission losses.
Performance certified is for Installation Type D: Ducted Inlet, Ducted Outlet.
AMCA Licensed for Sound and Air Performance.
Performance ratings do not include the effects of appurtenances (Accessories).
Sound ratings are based on sound level data obtained in accordance with AMCA Standard 300. The sound power level ratings shown are in decibels, referred to 10^-12 watts, calculated per AMCA Standard 301. Fan Outlet Sound Testing. Values shown are for outlet Lwo sound power levels for:
Installation Type D: Ducted Inlet, Ducted Outlet.
Ratings include the effects of duct end correction.

Discharge Sound Pressure = 96 dBA @ 5ft

Radiated Sound Pressure = 84 dBA @ 5ft

Discharge Sound Power = 107 LwA

Radiated Sound Power = 95 LwA

The A-weighted sound pressure level (dBA) is based on Hartzell Laboratory sound power tests, and is calculated in accordance with AMCA standard 303.

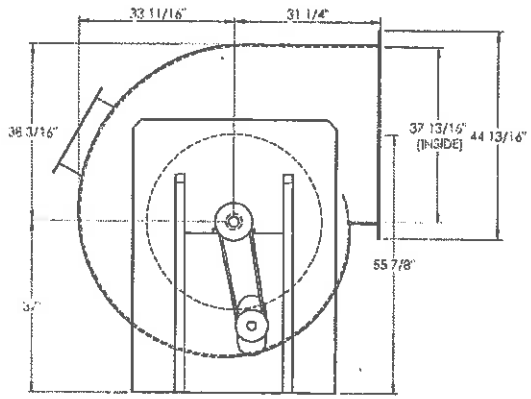
The FEG, dBA, LwA and radiated values are not AMCA International Licensed.

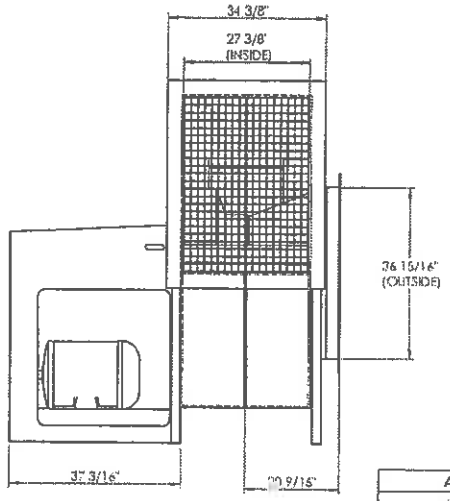
The calculation assumes a free field condition with a directivity factor for hemi-spherical radiation (Q=2).

The installed sound pressure levels are influenced by the installation and acoustic environment, and cannot be guaranteed. Use of this estimate level along for field acceptability test is not recommended.

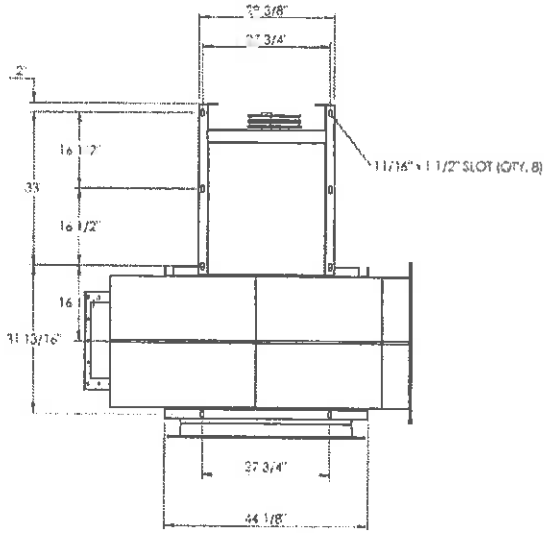
Although the calculation can be done for any stated distance, the free field does not start until 20 to 50 ft from the equipment in most installations.

Contact Hartzell Air Movement for more information concerning dBA values.





DRAWING NOTES:



BOTTOM VIEW

ACCESSORY LIST (DISPLAYABLE)	
DESCRIPTION	QTY.
ACCESS DOOR	1
GUARD(S) IN AIRSTREAM	1
HEIGHT ADJUSTING SUB BASE	N/A
INLET FLANGE	1
WEATHER COVER	N/A

ACCESSORY LIST (NOT DISPLAYABLE)	
SEE ORDER ACKNOWLEDGEMENT FOR DETAILS	
DESCRIPTION	QTY.
DAMPER	N/A
DAMPER ACCESSORIES	N/A
DRAIN	1
FRP COATING	N/A
FRP CONSTRUCTION	N/A
SPECIAL SHAFT SEAL	1
SPECIAL HARDWARE	1
SPECIAL SHAFT	1
STARTERS & DISCONNECTS	N/A
VIBRATION ISOLATORS	N/A

MODEL NUMBER: A41P0-362FA100FGFCQ3

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL ±1/8"
ANGLES ±1°

PROPS & WHEELS ARE NOT DRAWN AS BUILT AND ARE FOR REPRESENTATION ONLY. THE FAN MODELS AND ACCESSORIES ARE DIMENSIONALLY ACCURATE, BUT ARE NOT VISUALLY ACCURATE AS BUILT.

DRAWING SCALE: SCALED

FAN DESCRIPTION:

Series 41P - Fiberglass Backward Curved Centrifugal Fan, Packaged, Type FA

FAN TAG NUMBER:

PROPOSAL NUMBER: Config-120068 REV 00

HARTZELL SALES ORDER NUMBER:

MODEL REV: 01 DATE: 3/13/2017

Hartzell Air Movement

Piqua, OHio 45356
1-800-336-3267
www.hartzell.com

PROPRIETARY AND CONFIDENTIAL

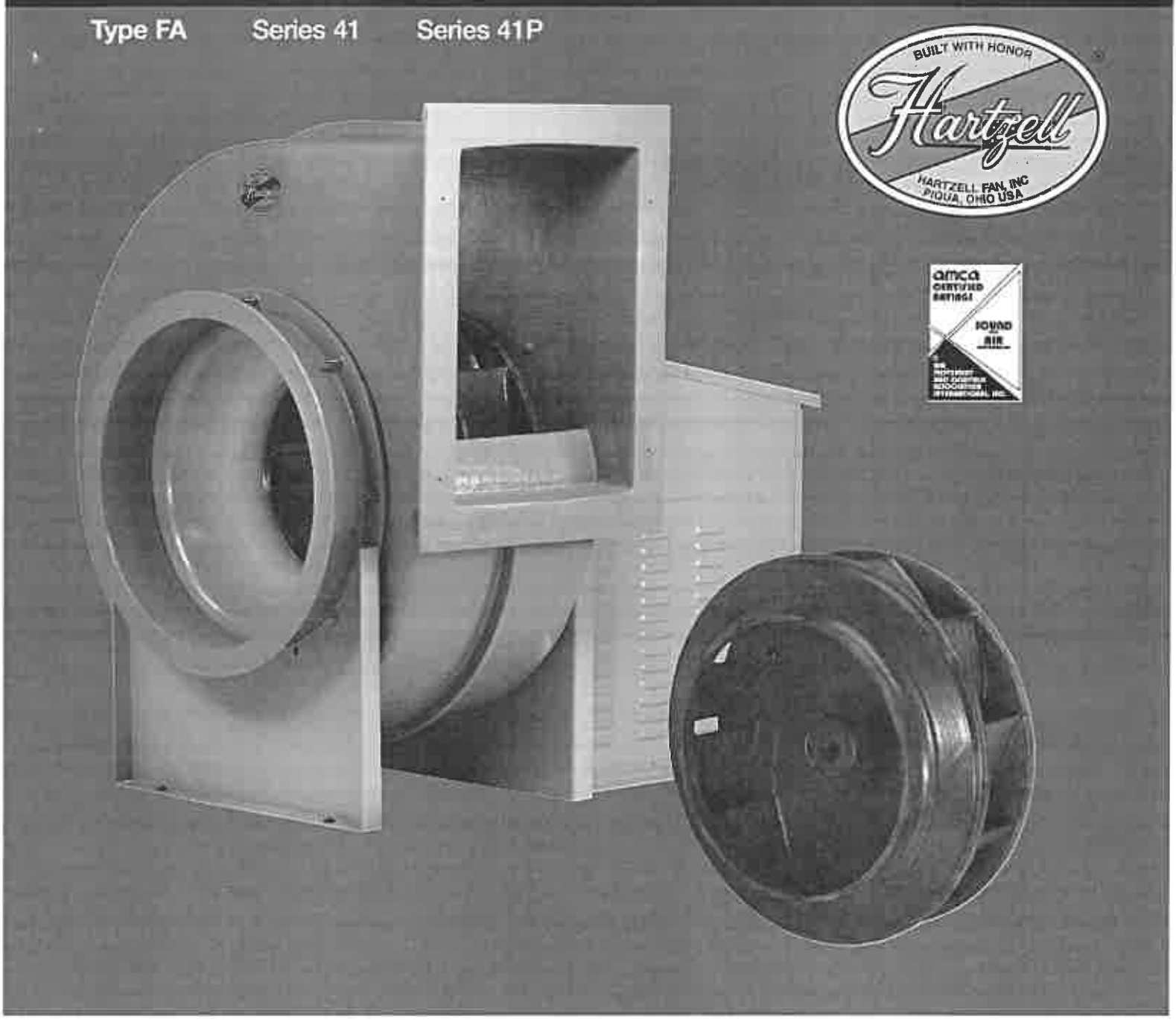
ITEMS SHOWN ON THIS DRAWING ARE THE INTELLECTUAL PROPERTY OF HARTZELL AIR MOVEMENT AND ARE PROVIDED FOR INTERFACE DIMENSIONS ONLY. DRAWINGS AND PERFORMANCE DATA SHALL NOT BE COPIED OR RELEASED WITHOUT THE WRITTEN CONSENT OF HARTZELL AIR MOVEMENT AND SHALL BE RETURNED ON REQUEST.

PAPER SIZE: B

SHEET 1 OF 1

Fiberglass Backward Curved Centrifugal Fans

Type FA Series 41 Series 41P



HARTZELL®

Hartzell Fan, Inc., Piqua, Ohio 45356
www.hartzellfan.com

Bulletin A-160-C April 2005

Index

Hartzell Model Code Explanation . . . . . Page 2
General Fiberglass Construction Feature . . . Page 3
Selection Guide and Temperature Altitude Corrections. . . . . Page 4
Corrosion Resistance Guide . . . . . Page 5
Centrifugal Fan Classifications and Arrangements . . . . . Page 6
Series 41 Fiberglass Backward Curved Fans . . . . . Page 7
Dimensions – Arrangements 1, 9, & 10 . . . Page 8-9
Dimensions – Arrangement 4 . . . . . Page 10
Material Specifications/Weights. . . . . Page 11
Series 41P Fiberglass Backward Curved Fan, Packaged . . . . . Page 12
Dimensions – Arr. 10 Series 41P . . . . . Page 13
Performance Data – Series 41 and Series 41P, Type FA . . . . . Pages 14-20
Performance Data – Series 41 Arrangement 4, Type FA . . . . . Pages 21
Options and Accessories . . . . . Pages 22-23

Certified Ratings for Air and Sound

Hartzell Fan, Inc. certifies that the Series 41, Fiberglass Backward Curved Centrifugal Fans, Type FA shown on pages 7–11 and 14–21, and Series 41P, Fiberglass Backward Curved Centrifugal Fan, Packaged, shown on pages 12–20, are licensed to bear the AMCA Seal for Air and Sound Performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Standard 211 and AMCA Standard 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound Performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-160.

Hartzell Model Code Explanation

Hartzell Model Code

A 41– 9 –33 1 FA 100 FG OP M 3

- Type — A – Production Item; S – Stock Item; Q – Special Quote
- Product Series
- Arrangement (centrifugals only)
- Size (nominal wheel diameter, inches)
- Class
- Wheel Code
- Wheel Width (entries represent percents)
- Material of Construction
- Motor Enclosure
- Motor Horsepower
- Motor RPM/Phase

Motor RPM/Phase Code

3 Phase	1 Phase
2 = 3450	B = 3450
3 = 1750	C = 1750
4 = 1140	D = 1140
5 = 870	E = 870
6 = 690	F = 690
7 = 575	G = 575

Motor Horsepower

Horsepower	1/4	1/3	1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200
Code Letter	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Example:

Assume a needed performance of 12,000 CFM at 5" SP, standard air. Reading the 33" rating table for 100% width on page 17, we find a fan RPM of 1,168 and brake horsepower (BHP) of 12.3. Required motor horsepower is 15. The model code can be constructed as follows: Type will be a production item (code A), product series for the Fiberglass Backward Curved Fans is 41, arrangement is 9 (code 9), size of the wheel is 33", class of construction is I (code 1), wheel code for this item is FA, wheel width is 100% (code 100), material of construction is fiberglass (code FG), motor enclosure is open protected drip-proof (code OP), motor horsepower is 15 (code O), and motor RPM/phase is 1750 (code 3).

Note: All other informational fields must be filled with hyphens/dashes (-) if they are not applicable to the fan being considered.

This bulletin lists Hartzell's line of Fiberglass Backward Curved Centrifugal Fans, Type FA and accessories. More than 70 Hartzell offices can provide specific performance and installation data to meet your requirements. Call your Hartzell representative for assistance. Visit our website **(www.hartzellfan.com)** or call toll-free **(1-800-336-3267)** for the name of your Hartzell representative.

General Fiberglass Construction Features

A variety of corrosion problems plague industry today. Fans and blowers made of coated steel or metals such as stainless and monel can handle some problem areas. Please refer to the corrosion resistance table on page 5 of this bulletin. Fiberglass centrifugal blowers can be used in most applications where corrosive elements exist in fume and vapor form. The resistance to corrosive elements is a major advantage, but the physical properties of fiberglass equipment offer these additional advantages:

- Fiberglass equipment is corrosion resistant.
- Fiberglass equipment weighs 25% less than comparable equipment made of carbon steel.
- Fiberglass has an extremely high strength-to-weight ratio, stronger than steel on a per-pound basis.
- Dimensional stability of fiberglass is excellent.
- Fiberglass air moving equipment will not become brittle at low temperatures and at 0°F the laminated fiberglass will be stronger than at room temperature.

Hartzell Fan, Inc. conforms to ASTM D4167-97, Standard Specification for fiber-reinforced plastic fans and blowers, when optional surfacing veil, electrical grounding, and dynamic balancing to ASTM D4167-97 levels, are added to the fan.

The following are standard Hartzell fiberglass construction features:

- Corrosion resistant polyester resin, having a Class I flame spread rate of 25 or less is used for all housings. Vinylester resin having a Class I flame spread rate of 25 or less is used for all wheels.
- All structural parts in the airstream are fiberglass and resin. All fiberglass surfaces are protected with a minimum 10-mil thickness of chemical, flame, and ultraviolet resistant resin.
- Shafts are turned, ground, polished, and keyed at both ends with a fiberglass sleeve in the airstream. Shafts are sized to operate well below critical speed. 304 or 316 Stainless steel or monel shafting is available as an option at extra cost.
- Internal hardware (airstream) is Type 304 stainless steel. All internal hardware (airstream) is encapsulated. All external hardware (out of airstream) is zinc plated as standard. Where metal is subject to attack by the corrosive elements being handled, all metal parts can be resin-coated after assembly.
- A fiberglass and neoprene shaft seal is placed where the shaft leaves the housing along with a neoprene shaft slinger between the seal and wheel on belt drive units (seal is not gas tight).

Series 41P

Series 41

Fiberglass Centrifugal Fans

- Bearings on belt drive units are heavy duty, deep row radial ball or double row spherical roller type self-aligning and shielded in cast iron housings. Long inner races ensure even load distribution, providing a high radial and thrust load capacity. Bearings are relubricable for continuous service with lubrication tubes extended to the exterior of fan base as necessary.
- V-Belt Drives are oversized for long life and continuous duty as standard. Fixed pitch or variable pitch drives are available upon request. Belts are oil, heat, and static resistant type.

Type FA Wheel

Type FA Wheel Features

The Type FA wheel is unique in the fan and blower industry. It is available in diameters from 12" to 60" in both clockwise and counter-clockwise rotations. The wheel is airfoil design and solid fiberglass die formed and coated with Dow Derakane 510-A corrosion resistant vinylester resin. The manufactured wheel is a single piece, removed from the pattern whole. This ensures each wheel is aerodynamically identical and provides reliable repeatable performance without the variability of hand made and taped components. The design is the result of a substantial investment in research, development, tooling, and manufacturing methods by Hartzell Fan, Inc.

The type FA wheel is highly efficient, with tapered inlet side and airfoil blades. It has non-overloading horsepower characteristic curve. When used in conjunction with a precision inlet cone it **efficiently moves large volumes of air at high pressures with low noise characteristics at low RPM.**

The fiberglass resin has a Class I flame spread rate of 25 or less. The wheel is electronically statically and dynamically balanced to the requirements of Fan Application Category BV-3 of AMCA ANSI Std. 204-96 and receives an Operational Test and Inspection before shipment. Special constructions are available for abrasive environments or extremely corrosive environments.

Hartzell Selection Guide

The Hartzell Fiberglass Backward Curved Centrifugal Fan performances on the following pages are based on standard air conditions (sea level, 70°F, and 29.92 inches barometric pressure). Performance data does not include drive losses on belt drive units.

How to use Performance Tables

1. Select a model for a given air delivery and pressure by looking up the required flow vertically along the left column of the performance table and moving to the required pressure. The model is identified with each table.
2. Note the required RPM and BHP. Refer to page 2 Hartzell Model Code Explanation for additional details.
3. If non-standard temperature or altitude is involved, correct to standard air density (see Temperature/Altitude Applications).

When placing your order, be sure to specify the Hartzell Model Code. Be sure to include fan model, performance requirements, operating temperature, motor data (enclosure, voltage, mounting position, etc.), and a list of required accessory items. (See pages 22 and 23.) For selection assistance and additional data contact your local Hartzell Sales Representative for assistance.

Temperature/Altitude Applications

When a fan operates in ambient conditions, generally it is handling standard air at 70°F, 29.92" barometric pressure, weighing 0.075-lbs./cu. ft. For an application where the fan operates at other than ambient conditions (temperature, altitude, or both), correction factors must be applied to the selection of the fan. In addition, the standard construction of the fan must be modified.

Correction factors for temperatures and altitudes are provided in Table 1. When a fan operates at other than ambient conditions, the correction factors in Table 1 will be required to correct static pressure and horsepower.

Table 2 shows the maximum safe operating speeds for each size fan wheel. At high temperatures, these maximum safe operating speeds should be derated.

Table 3 provides maximum safe speed correction factors by temperature and material construction. An example on the use of these tables appears at the bottom of this page.

Table 1 Altitude/Temperature Correction Factors

Temp.*(°F)	-50	-25	0	25	50	70	100	125	150	175	200	250
Factor	0.77	0.82	0.87	0.91	0.96	1.00	1.06	1.10	1.15	1.20	1.25	1.34

Alt.** (Ft.)	0	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
Factor	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.46

Above table has inverted values. Actual density is the reciprocal of the above values.
***At sea level. **At 70°F.**
For corrections involving both temperature and altitude, correction factors should be multiplied.
Example: 150°F at 7000 ft.: Temperature factor 1.15 x altitude factor 1.30 = 1.50 combined correction factor.

Table 2 Maximum Safe Speeds @ 70°F

Fan Size	100% Width	66% Width
12	4,520	5,320
15	3,600	4,340
18	2,990	3,610
22	2,440	2,950
24	2,240	2,710
27	2,000	2,410
30	1,840	2,220
33	1,670	2,020
36	1,530	1,850
40	1,370	1,660
44	1,240	1,500
49	1,130	1,360
54	1,020	1,230
60	920	1,110

Table 3 Maximum Safe Speed Correction Factors*

Temp. (°F)	0	70	100	150	175	200	225	250
FRP	1.00	1.00	1.00	0.98	0.95	0.91	0.82	0.70

*** To correct maximum safe operating speeds (Table 2) for high temperatures, multiply those speeds by correction factors from Table 3.**

Use of Correction Factors and Tables

First select size, RPM and BHP of the blower needed.

If temperature or altitude is involved, correct to standard air.

Example: Assume the required performance to be 12,000 CFM at 4.62" SP, 175°F and 2000 feet altitude.

1. Temperature factor 1.20 x altitude factor 1.08 = 1.30 combined correction factor.
2. Correct SP to standard 4.62" SP x 1.30 = 6" SP for 70°F at sea level.
3. A Series 41, size 33" class II 66% width belt drive backward curved centrifugal, selected from the rating tables (page 17) for the new condition shows 12,000 CFM at 6" SP, 1,398 RPM and 15.5 BHP.
4. Correct the horsepower and static pressure in item 3 to non-standard performance by dividing by factor: 6" SP divided by 1.30 = 4.62" SP; 15.5 BHP divided by 1.30 = 11.9 BHP.
5. Check the maximum safe speed. Maximum speed at 70°F for fan size 33" 66% width, 2,020 RPM. Using the maximum safe speed factor table for fiberglass construction yields a safe speed factor of .95. The maximum safe speed is 2,020 x .95 = 1,919 RPM; thus operation at 1,438 RPM at 175°F is satisfactory.
6. Final performance of the unit at the assumed conditions: 12,000 CFM at 4.62" SP, 1,398 RPM, 11.9 BHP at 175°F and 2000 feet altitude.
7. Size motor for cold startups and use a special high altitude motor if altitude exceeds 3300 feet.

Corrosion Resistance Guide

Temperature values shown are for immersion or condensate contact applications. Where temperature values are shown, resin is suitable for hood and duct type applications for the full operating temperature range of the product. See product specifications for materials of construction and maximum operating temperature limits.

Environment	Hetron 693 Ashland F	6694 Reichold F	510A Dow F
ACIDS			
Acetic to 10%	180	200	210
Acetic to 50%	90	160	180
Acetic to 100%		NR	NR
Acrylic to 25%	–	100	100
Benzene Sulfonic to 25%	180	210	150
Benzene Sulfonic 25% up	90	210	NR
Benzoic	250	220	210
Boric	180	220	210
Butyric to 50%	150	150	210
Butyric 50% up	–	100	80
Carbonic	160	220	NR
Chloroacetic to 25%	NR	*180	*150
Chloroacetic 25% to 50%	NR	*150	*120
Chromic to 5%	100	110	150
Chromic to 10% to 20%	–	NR	150
Citic	*200	*220	*210
Fluoboric	*S90	*S220	*S210
Gluosilicic up to 10%	S100	S150	S180
Formic up to 10%	200	150	180
Gluconic to 50%	120	180	180
Hydrobromic to 25%	*160	*170	*180
Hydrochloric to 15%	*230	*210	*180
Hydrocyanic to 10%	200	170	210
Hydrofluoric to 10%	***S100	***S150	***S150
Hydrofluorsilicic up to 10%	*S100	*S150	*S180
Hypochlorous to 20%	90	110	NR
Lactic	*200	*220	*210
Maleic	170	210	210
Nitric to 5%	200	170	150
Nitric 5% to 20%	–	140	120
Oleic	200	220	210
Oxalic	*220	*220	*210
Perchloric to 10%	H&D	**150	**150
Phosphoric	*220	*S210	*S210
Phosphoric, super	–	*S210	*S210
Phthalic Anhydride	*150	*210	*210
Picric to 10%	100	170	NR
Silicic	–	220	NR
Stearic	200	220	210
Sulfamic to 25%	160	150	NR
Sulfuric to 25%	*200	*220	*210
Sulfuric to 50%	*200	*200	*180
Sulfuric to 70%	*150	*180	*100
Sulfuric to 80%	NR	80	NR
Sulfurous to 10%	90	110	120
Tannic	200	220	210
Tartaric	220	220	210
Trichloroacetic to 50%	*90	*220	*200
ALCOHOLS			
Amyl	200	210	120
Benzyl	NR	100	NR
Butyl	190	150	120
Ethyl	90	120	80
Methyl	90	80	NR
GASES AND VAPORS			
Ammonia, Dry	90	170	100
Ammonia, Wet	90	NR	NR
Bromine, Wet	90	*100	NR
Carbon Dioxide	250	250	250
Carbon Monoxide	200	250	250
Chlorine, Dry	*200	*210	NR
Florine	–	NR	80
Hydrogen Fluoride, Vapor	*90	*S180	*S180
Hydrogen Sulfide to 5%	250	240	180
Sulfur Dioxide, Dry	200	250	210
Sulfur Dioxide, Wet	200	250	210
Sulfur Trioxide, Wet	–	220	210

Environment	Hetron 693 Ashland F	6694 Reichold F	510A Dow F
ALKALIES (Synthetic Veil)			
Ammonium Bicarbonate to 50%	140	S170	160
Ammonium Carbonate	120	S140	150
Ammonium Hydroxide to 5%	S90	S180	S180
Ammonium Hydroxide to 10%	S90	S170	S150
Ammonium Hydroxide to 29%	NR	S100	S100
Barium Carbonate	180	S240	210
Barium Hydroxide to 10%	–	S170	150
Calcium Hydroxide to 15%	160	S210	S180
Magnesium Carbonate	160	S210	180
Potassium Bicarbonate to 10%	90	S170	S150
Potassium Carbonate to 10%	90	S180	S150
Potassium Hydroxide to 25%	NR	S120	S150
Sodium Bicarbonate to 10%	140	S210	S180
Sodium Carbonate to 35%	90	S180	S180
Sodium Hydroxide to 10%	NR	S160	S180
Sodium Hydroxide to 25%	NR	S160	S180
Sodium Sulfide	90	S220	S210
Trisodium Phosphate to 50%	–	S175	210
SALTS			
Aluminum Chloride	*120	*240	*210
Aluminum Potassium Sulfate	160	240	210
Aluminum Sulfate	250	240	210
Ammonium Chloride	*200	*220	*210
Ammonium Nitrate	200	220	220
Ammonium Persulfate	150	200	180
Ammonium Persulfate, saturate	150	NR	NR
Ammonium Sulfate	200	220	220
Aniline Sulfate to 25%	150	220	210
Aniline Sulfate, saturated	150	220	NR
Barium Chloride	200	240	210
Barium Sulfide	NR	S210	180
Calcium Chlorate	180	220	220
Calcium Chloride	250	240	220
Calcium Sulfate	*200	*240	*210
Copper Chloride	*250	*220	*220
Copper Cyanide	90	S220	210
Copper Fluoride	NR	S170	NR
Copper Sulfate	250	240	210
Ferric Chloride	*250	*220	*210
Ferric Nitrate	170	220	210
Ferric Sulfate	200	220	210
Ferrous Chloride	*220	*220	*210
Ferrous Nitrate	160	220	210
Ferrous Sulfate	220	220	210
Lead Acetate	160	220	210
Magnesium Chloride	220	240	210
Magnesium Hydroxide	–	S210	210
Magnesium Sulfate	200	210	210
Mercuric Chloride	*210	*220	*210
Mercurous Chloride	210	220	210
Nickel Chloride	220	220	210
Nickel Nitrate	220	220	210
Nickel Sulfate	220	220	210
Potassium Chloride	200	240	210
Potassium Dichromate	200	220	210
Potassium Ferricyanide	200	220	210
Potassium Nitrate	200	220	210
Potassium Permangnate	150	210	210
Potassium Persulfate	90	220	210
Potassium Sulfate	200	240	210
Silver Nitrate	200	220	210
Sodium Acetate	150	220	210
Sodium Bisulfate	200	220	210
Sodium Chloride	200	240	180
Sodium Chlorite to 10%	175	170	150
Sodium Cyanide	100	220	210
Sodium Dichromate	160	220	210

Environment	Hetron 693 Ashland F	6694 Reichold F	510A Dow F
SALTS (cont'd.)			
Sodium Ferricyanide	220	220	210
Sodium Floride	–	S180	S180
Sodium Nitrate	220	220	210
Sodium Nitrite		220	NR
Sodium Silicate PH less than 1	160	210	NR
Sodium Sulfate	180	240	210
Sodium Sulfite	–	220	210
Stannic Chloride	*180	*220	*210
Stannous Chloride	*200	*220	*210
Zinc Chloride	200	*220	*210
Zinc Nitrate	180	220	210
Zinc Sulfite	150	220	NR
SOLVENTS			
Acetone to 10%	NR	180	180
Benzene	90	80	NR
Carbon Disulfide	NR	NR	NR
Carbon Tetrachloride	90 VAPOR	110	150
Chlorobenzene	NR	NR	NR
Ethyl Acetate	NR	NR	NR
Ethyl Chloride	90 VAPOR	NR	NR
Ethylene Dibromide	NR	NR	NR
Ethylene Glycol	250	220	210
n-Heptane	120	210	210
Hexane	–	150	160
Methyl Ethyl Ketone to 10%	NR	80	NR
Naphtha	200	210	180
Naphthalene	130	220	210
Tetrachloroethylene	NR	100	80
Toluene	90	NR	80
Xylene	90	80	80
BLEACHES			
Calcium Chlorate	180	220	220
Calcium Hypochlorite	100	NR	S160
Chlorine Dioxide up to 15%	–	160	*200
Chlorine Water	*125	*210	*200
Hydrogen Peroxide to 30%	120	100	150
Sodium Chlorate	90	210	210
Sodium Hypochlorite to 15%	NR	125	S180
OTHERS			
Alum. Chlorohydroxide to 50%	–	220	210
Ammonium Phosphate	150	210	210
Aqua Rega	NR	*80	NR
Detergents	120	170	150
Glycerine	200	220	210
Kerosene	120	210	180
Photographic Solutions	–	80	NR
Perchlorethylene	NR	100	80
Sodium Tetraborate	180	S210	180
Sodium Tripolyphosphate	125	210	210
Sodium Xylene Sulfonate	–	170	160
Sorbitol Solutions	180	220	160
Urea	90	170	150
Urea-Ammonium-Nitrate	–	120	120
Fertilizer Fumes	100	120	150
Shell-D-D	NR	100	NR
Steam Vapor	180	210	180

Reference
C.R.G.1.1

NOTES: **NR = Not Recommended S = Synthetic surfacing veil or mat required. Contact factory. "–" = No test data available**

- * **Special shaft and hardware required, contact factory.**
- ** **Special design considerations required (explosive environment), contact factory.**
- *** **Do not use HartKoate. Special shaft and hardware required, contact factory.**

For environments not shown, or when temperatures exceed the maximum listed, contact factory.
Hydrocarbon fuel environments may require static grounding, contact factory.

Do not use HartKoate (Alum. Oxide) with Hydrofluoric acid.

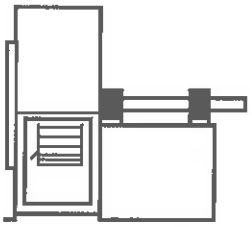
Hartzell Centrifugal Fan Classifications

Hartzell Series 41 Fiberglass Backward Curved Centrifugal Fans, Type FA, 100% width, are designed and classified to perform within the centrifugal fan classification parameters established by AMCA Standard No. 2408; AMCA Publication 99. Hartzell Series 41 Fiberglass Backward Curved Centrifugal Fans, Type FA, 100% width are available in Class I and II construction. Hartzell Series 41 in 66% width are available in Class I, II, and III construction. Series 41P are available in Class I construction only. See performance tables for specific ratings. These parameters are explained in the following table.

FAN CLASS	PERFORMANCE RANGE*	TABLE SHADING
I	5" @ 2300 FPM To 2½" @ 3200 FPM	
II	8½" @ 3000 FPM To 4¼" @ 4175 FPM	
III	13½" @ 3780 FPM To 6¾" @ 5260 FPM	

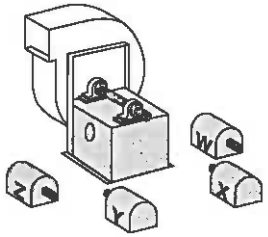
* At standard air conditions (70°F, 29.92 in. HG barometric pressure, .075 lbs./ft.3). Static pressure shown in inches of water; outlet velocity shown in feet per minute. Performance Ranges apply only to 100% width construction.

Centrifugal Fan Arrangements



Arrangement 1

Unit furnished with shaft and bearings, less motor and drive. Designed to be driven by a separately mounted motor. Impeller is overhung – two bearings on base. Temperature limitations: 250°F.

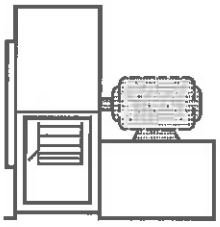


Motor Position Designation

Motor position designation is necessary when ordering the following for Arrangement 1 fans –

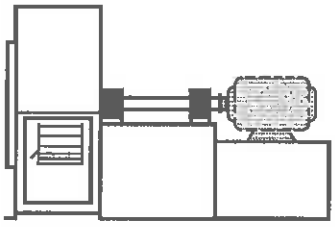
1 – V Belt Drive.
2 – Vibration Bases.
3 – Belt Guards.

Note: Location of motor is determined by facing the drive side of the fan and designating the motor position by letters W, X, Y, or Z. Consider discharge location and height when specifying.



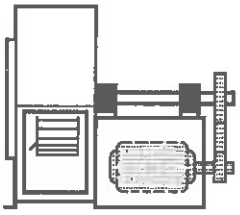
Arrangement 4

Direct drive packaged unit, wheel is overhung and attached to the shaft of the electric motor. No bearings on fan. Temperature limitations: 200°F.



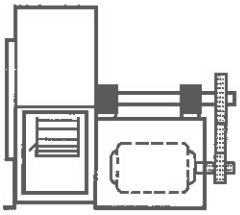
Arrangement 8

Direct coupled configuration with motor mounted to common fan base. Impeller is overhung and supported by two bearings on fan base. Temperature Limitations: 250°F.



Arrangement 9

Belt drive configuration with motor mounted on outside of bearing base support. Packaged unit, wheel is overhung, slide rail motor base permits easy adjustment of belt tension. Available on either left or right hand side of base (when facing drive end of shaft). Temperature limitations: 250°F.



Arrangement 10

Belt drive configuration with motor mounted inside base. Packaged unit, wheel is overhung. Temperature limitations: 250°F.

Adapted from AMCA Standard 99-2404-03, *Drive Arrangements for Centrifugal Fans*, and AMCA Standard 99-2407-03, *Motor Positions for Belt or Chain Drive Centrifugal Fans*, with written permission from Air Movement and Control Association International, Inc.

Series 41 Backward Curved Centrifugal Fan, Type FA

Series 41 Hartzell Fiberglass Backward Curved Centrifugal Fans offers **non-overloading, high efficiency, low noise,** and economy for corrosive atmospheres. This fan is unique in the fan and blower industry. The fan incorporates the proven, highly efficient, backward curved, airfoil-bladed, solid fiberglass, Type FA wheel in a solid fiberglass housing. This design incorporates the airfoil centrifugal wheel, centrifugal fan housing, and inlet cone to produce a compact, highly efficient unit with low noise characteristics.

- **Applications** – Developed for compatible corrosive applications where it is advantageous to have fiberglass materials and have the motor out of the airstream with the versatility of a belt drive fan.
- **Performance** – Type FA fiberglass airfoil wheel with inlet cone and aerodynamically designed housing produces from **800 CFM to 90,000 CFM at pressures from free delivery to 14" W.G.** at high efficiencies with non-overloading horsepower, low noise, and low RPM. Maximum temperature capability is 250°F.

Series 41

Hartzell Fan, Inc. certifies that the Series 41, Fiberglass Backward Curved Centrifugal Fans, Type FA, shown herein are licensed to bear the AMCA seal for air and sound performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound Performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-160.

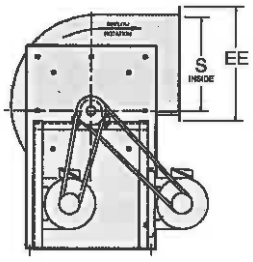
Type FA Wheel

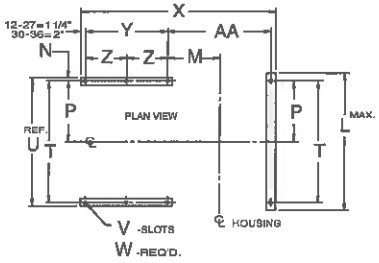
Features

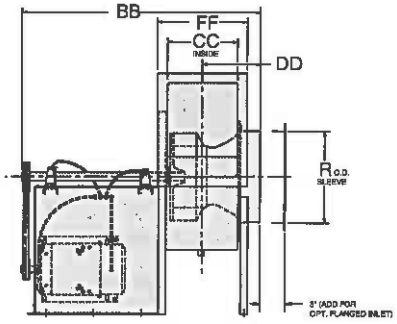
- **Sizes** – 12", 15", 18", 22", 24", 27", 30", 33", 36", 40", 44", 49", 54", and 60" wheel diameters. Available in Class I and II in 100% width and Class I, II, and III in 66% width. Available in Belt Drive Arrangements #1, #9, and #10, Direct Drive Arr. #4 and Direct Coupled Arr. #8. Contact Factory for Arr. #8 dimensions and for other arrangements.
- **FRP Materials** – Solid fiberglass wheel molded with Dow Derakane 510-A corrosion resistant vinylester resin having a Class I flame spread rate of 25 or less. The housing and other standard FRP components are constructed of fiberglass and Ashland Hertron 693 corrosive resistant polyester resin having a Class I flame spread rate of 25 or less. No metal parts are exposed in the airstream. See Corrosion Resistance Guide on page 5 for resin characteristics. Other resins are available.
- **Type FA Wheel** – **High efficiency, airfoil** design with **one-piece, solid fiberglass**, construction. Tapered inlet side design efficiently moves large volumes of air at high pressures. Wheel has non-overloading horsepower characteristic curve.
- **Rotation and Discharge Positions** – Available in both clockwise and counter-clockwise rotations and in all standard discharge positions. Housing discharge position can be changed on fan sizes 12" through 36". Larger size housings are non-rotatable.
- **Easy Installation and Maintenance** – Motor, drives, and bearings are readily accessible for ease in wiring, installation, adjustment, and lubrication.
- **Shafts** – Shafts are turned ground and polished, keyed at both ends with fiberglass sleeve in the airstream and sized to operate well below critical speed.
- **Bearings** – Bearings are heavy duty, self-aligning, ball or roller type, in cast iron pillow block housings, selected for minimum L-50 Life of 250,000 hours, and include extended lubrication fittings as standard.
- **Standard Shaft Seal** – A fiberglass and neoprene shaft seal is placed where the shaft leaves the housing along with a neoprene shaft slinger between the seal and wheel. Seal is not gas tight.
- **Hardware** – Airstream hardware is Type 304 stainless steel and encapsulated.
- **Motor Out of the Airstream** – Exterior mounting of Drip-Proof Protected motor on an adjustable motor slide base in belt drive models is standard. Motors can be furnished as TEFC, Mill and Chemical Duty, or to specifications upon request. Motor HP and frame size limits are identified in Dimensions and Material Specifications table.
- **Drives (Belt Drive Fans)** – V-Belt Drives are oversized for long life and continuous duty and are fixed pitch as standard option. Variable pitch drives are available upon request. Belts are oil, heat, and static resistant type.
- **Balancing** – The fan is electronically statically and dynamically balanced to the requirements of Fan Application Category BV-3 of AMCA ANSI Std. 204-96. All fans receive an inspection prior to shipment and, whenever possible, an operational test.
- **Flanged Duct Connections** – Outlet flange is standard, inlet flange is optional. Flange bolt holes are optional.
- **Bases** – Heavy gauge, welded, hot rolled steel with epoxy coating are standard.
- **Options and Accessories** – See pages 22 and 23.
- **Spark Resistant Construction and Protective Coatings** – Spark resistant construction for fiberglass equipment is optional, and for abrasive environments or extremely corrosive environments, special construction is available, see page 23.

Dimensions – Arrangements 1, 9 or 10

SERIES 41, Type FA
Sizes 12" Through 36", Rotatable Housing
Standard Construction – Classes I, II and III, Maximum Temperature – 250°F.







Principal Dimensions (Inches) – Sizes 12" – 36"

Fan Size	A	B		C	D	E	F	G	H	J	L	M		N
		Class I/II	Class III									100% Width	66% Width	
12	18 1/2	15 1/2	15 1/2	13	11 1/2	12 1/4	20 1/8	10 3/4	10	11 1/16	18 3/4	6 29/32	6 3/8	1
15	21 1/2	18 5/8	19 5/8	16 3/16	15 7/8	16 11/16	25 1/2	14 15/16	14	13 1/16	21 3/4	8 3/8	7 11/16	1
18	24 1/2	21 15/16	22 7/8	19	18 7/16	19 9/16	28 1/2	17 5/16	16 3/16	15 1/16	28 3/4	11 3/16	10 3/8	15/16
22	30	26 1/4	27 3/16	21 1/8	22 11/16	24 1/16	34 3/8	21 5/16	19 15/16	18 9/16	29 1/8	11 1/8	10 1/8	1
24	33 15/16	28 5/16	29 1/4	23	24 7/16	25 15/16	37 3/16	22 15/16	21 7/16	19 15/16	31	11 7/8	10 3/4	1
27	32 5/8	32 1/2	32 1/2	24	27 7/16	29 1/8	40 3/16	25 13/16	24 1/8	22 7/16	33 1/8	13 3/16	11 15/16	1
30	37	35	35	28 1/2	29 9/16	31 3/8	43 7/16	27 3/4	25 15/16	24 1/16	38 3/8	17	15 5/8	2 1/8
33	40	38 3/16	38 3/16	28 11/16	33 1/4	35 1/4	47 9/16	31 1/4	29 1/4	27 3/16	38 3/8	18 1/2	16 5/8	2 1/8
36	42	41 5/16	41 5/16	31 5/16	35 1/16	37 1/4	51 11/16	32 7/8	30 11/16	28 1/2	42 3/4	19 1/4	17 5/8	2 1/8

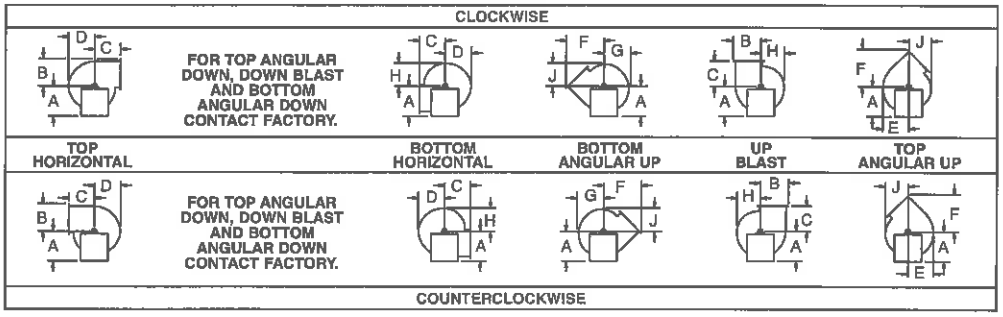
Fan Size	P	R	S	T	U	V	W	X		Y	Z	AA	
								100% Width	66% Width			100% Width	66% Width
12	8 1/8	12 1/4	12 7/8	16 1/4	18 1/4	11/16 x 1 1/16	6	28 1/8	26 31/32	12 3/4	–	13 1/8	11 31/32
15	9 1/8	16 1/2	16 1/8	18 1/4	20 1/4	11/16 x 1 1/16	6	34	32 3/4	15 3/4	–	16	14 9/16
18	12 11/16	19 1/2	19 3/8	25 3/8	27 1/4	11/16 x 1 1/16	8	41	39 1/2	18 3/4	9 3/8	20	18 1/4
22	12 11/16	23 7/8	23 5/8	25 3/8	27 3/8	11/16 x 1 1/16	8	44 1/16	42 3/8	20 1/4	10 1/8	21 9/16	19 1/2
24	12 11/16	25 7/8	25 3/4	25 3/8	27 3/8	11/16 x 1 1/16	8	47 7/8	46	22 1/2	11 1/4	23 1/8	20 7/8
27	11	28 3/4	29	22	24	11/16 x 1 1/16	8	50 9/16	48 3/16	22 1/2	11 1/4	25 13/16	23 5/16
30	16 7/8	31 3/16	31 1/2	33 3/4	38	13/16 x 1 1/4	8	57 1/16	54 3/8	22 3/4	11 3/8	30 13/16	28 1/8
33	16 7/8	34 3/16	34 11/16	33 3/4	38	13/16 x 1 1/4	8	62 7/16	59 7/16	25 3/4	12 7/8	33 3/16	30 3/16
36	16 7/8	37 3/16	37 13/16	33 3/4	38	13/16 x 1 1/4	8	64 11/16	61 7/16	25 3/4	12 7/8	35 7/16	32 3/16

Fan Size	BB		CC		DD		EE				FF			
	100% Width	66% Width	100% Width	66% Width	100% Width	66% Width	100% Width		66% Width		100% Width		66% Width	
							Class I/II	Class III	Class I/II	Class III	Class I/II	Class III	Class I/II	Class III
12	33 1/8	31 31/32	9 9/32	8 5/8	8	7 7/16	18 1/8	18 1/8	18 1/8	18 1/8	14 3/8	14 3/8	13 1/2	13 1/2
15	38 3/4	37 3/16	11 11/16	10 5/16	9 5/16	8 9/16	21 1/16	23 1/8	21 1/16	23 1/8	16 5/8	18 11/16	15 1/4	17 5/16
18	45 3/4	43 15/16	14	12 5/16	10 1/2	9 5/8	24 1/2	26 3/8	24 1/2	26 3/8	19 1/16	21	17 3/8	19 5/16
22	49 5/8	47 5/16	17 1/8	15 1/16	12 1/8	11	28 3/4	30 5/8	28 3/4	30 5/8	22 1/4	24 1/8	20 3/16	22 1/16
24	54 1/8	51 11/16	18 5/8	16 3/8	12 15/16	11 11/16	30 13/16	32 3/4	30 13/16	26 3/8	23 11/16	25 5/8	21 7/16	23 3/8
27	56 3/4	53 13/16	21	18 1/2	14 1/8	12 7/8	36	36	36	36	28	28	25 1/2	25 1/2
30	63 1/16	60 3/8	22 13/16	20 1/16	15 1/16	13 11/16	38 1/2	38 1/2	38 1/2	38 1/2	29 13/16	29 13/16	27 1/16	27 1/16
33	69 1/8	65 7/16	25 1/8	22 1/8	16 1/4	14 3/4	41 11/16	41 11/16	38 1/2	38 1/2	32 1/8	32 1/8	29 1/8	29 1/8
36	72 11/16	69 7/16	27 3/8	24 1/8	17 3/8	15 3/4	44 13/16	44 13/16	41 11/16	41 11/16	34 3/8	34 3/8	29 1/8	31 1/8

Dimensions and specifications are subject to change. Clockwise Rotation is shown. Certified prints are available.

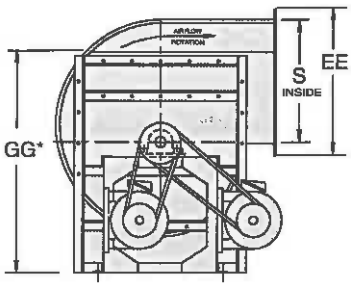
Fan Discharges

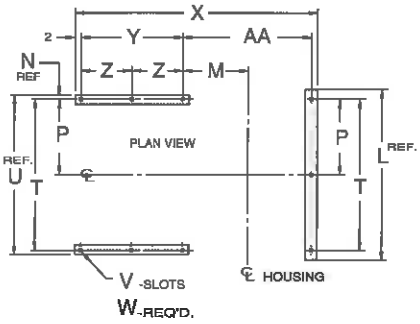
TAD, BAD, and DB discharge must have discharge extension. Contact factory.

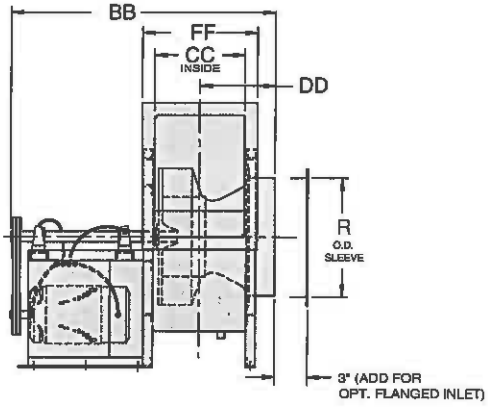


Dimensions – Arrangements 1, 9 or 10

SERIES 41, Type FA
Sizes 40" Through 60", Fixed Housing
Standard Construction – Classes I, II and III, Maximum Temperature – 250°F.







Principal Dimensions (Inches) – Sizes 40" – 60"

Fan Size	A				B	C	D	E	F	G	H	J	L	M	
	TAU-TH	TAD	BH	BAU-UB										100% Width	66% Width
40	47	47	47	47	46 13/16	35 7/8	40 1/4	42 3/4	58 13/16	37 3/4	35 1/4	32 3/4	55 1/4	21 3/16	19 3/8
44	51 1/4	51 1/4	51 1/4	51 1/4	52 3/8	39 11/16	45 1/2	48 1/4	65 1/2	42 3/4	40	37 3/16	59 5/8	22 7/8	20 7/8
49	56 1/2	56 1/2	56 1/2	56 1/2	57 1/8	43 11/16	49 1/16	52 1/8	71 11/16	46	42 15/16	39 7/8	71 1/2	24 9/16	22 3/8
54	54 1/4	47 3/4	64	61	62 7/8	48 3/8	54 3/8	57 3/4	78 11/16	51	47 9/16	44 1/4	69 5/8	27 3/8	24 15/16
60	60	52 1/2	70	67 1/2	69 1/16	53 1/2	59 7/8	63 3/4	86 11/16	56 1/8	52 3/8	48 5/8	75 1/2	29 5/8	26 15/16

Fan Size	N	P	R	S	T	U	V	W	X		Y	Z	AA	
									100% Width	66% Width			100% Width	66% Width
40	2	22	42 5/8	43 5/16	44	48	13/16 x 1 1/4	9	70 1/8	66 1/2	27 3/4	13 7/8	38 7/8	35 1/4
44	2	22	47 1/8	47 7/8	44	48	13/16 x 1 1/4	9	73 7/16	69 7/16	27 3/4	13 7/8	42 3/16	38 3/16
49	2 1/2	22 1/2	51 7/8	52 5/8	45	50	13/16 x 1 1/4	9	81 7/8	77 7/16	32 3/4	16 3/8	45 5/8	41 3/16
54	2	27	57 5/16	58 3/8	54	58	13/16 x 1 1/4	9	86 1/16	81 1/8	32	16	50 9/16	45 5/8
60	2	27	63 5/16	64 9/16	54	58	13/16 x 1 1/4	9	90 1/2	85 1/16	32	16	55	49 9/16

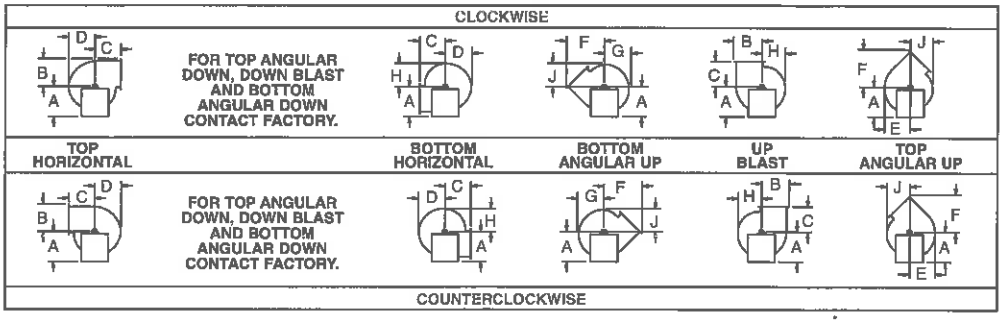
Fan Size	BB		CC		DD		EE	FF		GG*
	100% Width	66% Width	100% Width	66% Width	100% Width	66% Width		100% Width	66% Width	
40	78 13/16	75 3/16	31 3/8	27 3/4	19 1/2	17 11/16	50 5/16	38 3/8	34 3/4	–
44	82 7/16	78 7/16	34 11/16	30 11/16	21 1/4	19 1/4	56 7/8	43 11/16	39 11/16	–
49	90 7/8	86 7/16	38 1/8	33 11/16	22 15/16	20 3/4	61 5/8	47 1/8	42 11/16	–
54	94 13/16	89 7/8	42 5/16	37 3/8	25	22 9/16	67 3/8	51 5/16	46 3/8	98 1/4
60	99 5/16	93 7/8	46 3/4	41 5/16	27 1/4	24 9/16	73 9/16	55 3/4	50 5/16	107 3/8

Dimensions and specifications are subject to change. Clockwise Rotation is shown. Certified prints are available.

Fan Discharges

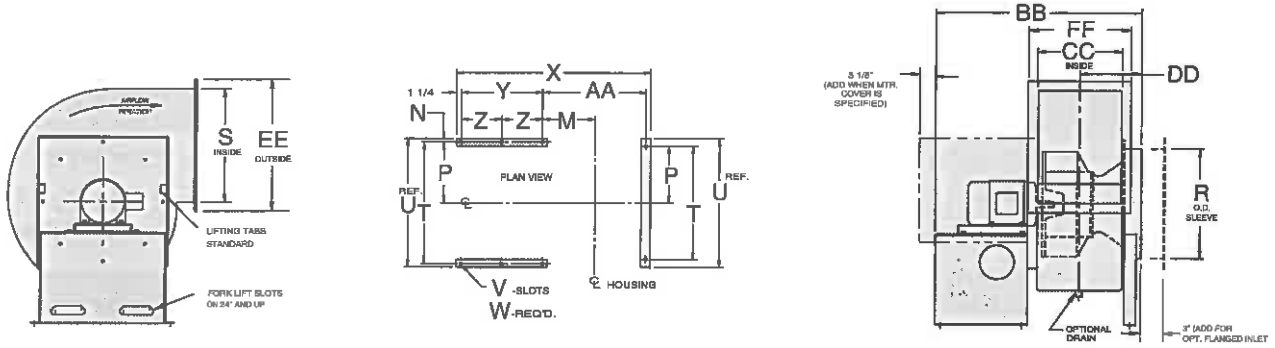
TAD, BAD, and DB discharge must have discharge extension. Contact factory.

*** For top angular up discharge on 54" and 60" only, dimension is for location of removable split scroll to allow for shipping. Assembly required in field.**



Dimensions – Arrangement 4

SERIES 41, Type FA
Sizes 12" Through 33", Rotatable Housing
Standard Construction – Classes I, II and III, Maximum Temperature – 200°F.



Principal Dimensions (Inches) – Sizes 12" – 33"

Fan Size	A	B Class I/II	B Class III	C	D	E	F	G	H	J	M 100% Width	M 66% Width	N
12	16	15 1/2	15 1/2	13	11 1/2	12 1/4	20 1/8	10 3/4	10	11 1/16	8 7/16	7 7/8	5/8
15	18 3/4	18 5/8	19 5/8	16 3/16	15 7/8	16 11/16	25 1/2	14 15/16	14	13 1/16	9 11/16	9	5/8
18	22	21 15/16	22 7/8	19	18 7/16	19 9/16	28 1/2	17 5/16	16 3/16	15 1/16	10 15/16	10 1/8	5/8
22	26 3/4	26 1/4	27 3/16	21 1/8	22 11/16	24 1/16	34 3/8	21 5/16	19 15/16	18 9/16	12 7/8	11 9/16	5/8
24	28 1/2	28 5/16	29 1/4	23	24 7/16	25 15/16	37 3/16	22 15/16	21 7/16	19 15/16	13 3/8	12 1/4	7/8
27	32 1/4	32 1/2	32 1/2	24	27 7/16	29 1/8	40 3/16	25 13/16	24 1/8	22 7/16	14 5/8	13 3/8	7/8
30	34 3/4	35	35	28 1/2	29 9/16	31 3/8	43 7/16	27 3/4	25 13/16	24 1/16	15 11/16	14 5/16	7/8
33	38	38 3/16	38 3/16	28 11/16	33 1/4	35 1/4	47 9/16	31 1/4	29 1/4	27 3/16	16 13/16	15 5/16	7/8

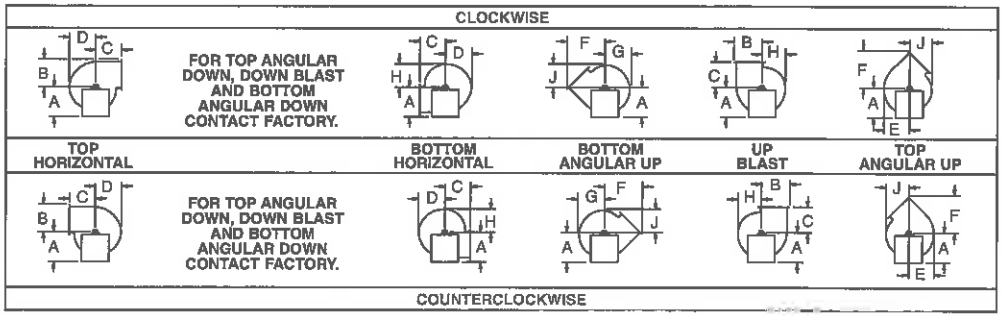
Fan Size	P	R	S	T	U	V	W	X 100% Width	X 66% Width	Y	Z	AA 100% Width	AA 66% Width
12	9 1/8	12 1/4	12 7/8	18 1/4	19 1/2	9/16 x 1 1/16	6	26 7/16	25 9/32	9 1/2	–	14 11/16	13 17/32
15	10 3/4	16 1/2	16 1/8	21 1/2	22 3/4	9/16 x 1 1/16	6	36	34 5/8	16 1/2	–	17 1/4	15 13/16
18	12 3/8	19 1/2	19 3/8	24 3/4	27 3/4	9/16 x 1 1/16	6	40 5/16	39 1/4	19	–	19 11/16	18
22	14 1/2	23 7/8	23 5/8	29	30 1/4	9/16 x 1 1/16	6	44 1/4	42 3/16	19	–	23	21
24	15 7/8	25 7/8	25 3/4	31 3/4	33 1/2	11/16 x 1 3/16	6	45 13/16	43 5/8	19	–	24 9/16	22 3/8
27	17 5/8	28 3/4	29	35 1/4	37	11/16 x 1 3/16	6	48 1/2	46	19	–	27 1/4	24 3/4
30	18 7/8	31 3/16	31 1/2	37 3/4	39 1/2	11/16 x 1 3/16	8	52 5/16	50 1/4	21 1/2	10 3/4	29 3/16	26 1/2
33	20 5/8	34 3/16	34 11/16	41 1/4	43	11/16 x 1 3/16	8	57 1/2	54 9/16	23 3/4	11 7/8	31 1/2	28 9/16

Fan Size	BB 100% Width	BB 66% Width	CC 100% Width	CC 66% Width	DD 100% Width	DD 66% Width	EE 100% Width Class I/II	EE 100% Width Class III	EE 66% Width Class I/II	EE 66% Width Class III	FF 100% Width Class I/II	FF 100% Width Class III	FF 66% Width Class I/II	FF 66% Width Class III
12	27 3/16	26 1/32	9 9/32	8 5/8	8	7 7/16	18 1/8	18 1/8	18 1/8	18 1/8	14 3/8	14 3/8	13 1/2	13 1/2
15	36 11/16	35 1/4	11 11/16	10 5/16	9 1/4	8 1/2	21 1/16	23 1/8	21 1/16	23 1/8	16 5/8	18 11/16	15 1/4	17 5/16
18	41 5/8	39 3/4	14	12 5/16	10 7/16	9 3/8	24 1/2	26 3/8	24 1/2	26 3/8	19 1/16	21	17 3/8	19 5/16
22	45 1/8	42 13/16	17 1/8	15 1/16	12	11	28 3/4	30 5/8	28 3/4	30 5/8	22 1/4	24 1/8	20 3/16	22 1/16
24	46 7/16	44 3/16	18 5/8	16 3/8	12 13/16	11 11/16	30 13/16	32 3/4	30 13/16	32 3/4	23 11/16	25 5/8	21 7/16	23 3/8
27	49	46 1/2	21	18 1/2	14 1/8	12 7/8	36	36	36	36	28	28	25 1/2	25 1/2
30	53 1/2	50 3/4	22 13/16	20 1/16	15 1/16	13 11/16	38 1/2	38 1/2	38 1/2	38 1/2	29 13/16	29 13/16	27 1/16	27 1/16
33	58 1/16	52 13/16	25 1/8	22 1/8	16 1/4	14 3/4	41 11/15	41 11/16	41 11/16	41 11/16	32 1/8	32 1/8	29 1/8	29 1/8

Dimensions and specifications are subject to change. Clockwise rotation is shown. Certified prints are available.

Fan Discharges

TAD, BAD, and DB discharge must have discharge extension. Contact factory.



Material Specifications/Weights

Series 41

Class	Fan Size	Flanges: Inlet Thickness	Flanges: Inlet Holes	Flanges: Outlet Thickness	Flanges: Outlet Holes 100% & 66%	Shaft & Bearings Size	Shaft & Bearings Type	FA Type Wheel WR² (Lbs.-Ft.²)	Motor Frames Minimum Arr. #4	Motor Frames Maximum Arr. #4	Motor Frames Maximum Arr. #9 & #10	Installation Weights (Lbs. Less Motor) Arr. #4	Installation Weights (Lbs. Less Motor) Arr. #9 & #10
I	12	1/8	7/16 x 8	1/4	7/16 x 10	1 3/16	P3U219	1.6	56	184T	182T	160	193
	15	3/16	7/16 x 8	1/4	7/16 x 14	1 3/16	P3U219	4.7	143T	215T	184T	235	230
	18	3/16	7/16 x 8	1/4	7/16 x 14	1 7/16	P3U223	11	143T	256T	213T	350	355
	22	1/4	7/16 x 8	1/4	7/16 x 18	1 7/16	P3U223	29	182T	286T	215T	490	490
	24	1/4	7/16 x 8	1/4	7/16 x 18	1 7/16	P3U223	44	182T	286T	254T	580	605
	27	5/16	7/16 x 8	3/8	7/16 x 18	2 3/16	P3U235	78	182T	286T	254T	660	770
	30	5/16	7/16 x 8	3/8	7/16 x 18	2 7/16	P3U239	119	213T	326T	256T	935	975
	33	5/16	7/16 x 8	3/8	7/16 x 22	2 7/16	P3U239	160	254T	365T	284T	1145	1185
	36	5/16	7/16 x 8	3/8	7/16 x 22	2 11/16	P3U243	251	—	—	286T	—	1550
	40	5/16	7/16 x 8	1/2	7/16 x 26	2 15/16	P3U247	423	—	—	324T	—	2015
	44	3/8	7/16 x 8	1/2	7/16 x 30	2 15/16	P3U247	717	—	—	324T	—	2515
	49	3/8	9/16 x 16	1/2	7/16 x 34	2 15/16	P3U247	1180	—	—	326T	—	2940
	54	7/16	9/16 x 16	1/2	7/16 x 34	2 15/16	PB22447	1810	—	—	364T	—	3340
	60	7/16	9/16 x 16	1/2	7/16 x 38	2 15/16	PB22447	2875	—	—	365T	—	3670
II	12	1/8	7/16 x 8	1/4	7/16 x 10	1 7/16	P3U223	1.6	56	184T	184T	160	202
	15	3/16	7/16 x 8	1/4	7/16 x 14	1 7/16	P3U223	4.7	143T	215T	215T	235	235
	18	3/16	7/16 x 8	1/4	7/16 x 14	1 11/16	P3U227	11	143T	256T	256T	350	355
	22	1/4	7/16 x 8	1/4	7/16 x 18	1 11/16	PB22427	29	182T	286T	256T*	490	505
	24	1/4	7/16 x 8	1/4	7/16 x 18	1 11/16	PB22427	44	182T	286T	286T*	580	625
	27	5/16	9/16 x 8	3/8	7/16 x 18	2 3/16	PB22435	78	182T	286T	286T*	660	800
	30	5/16	9/16 x 8	3/8	7/16 x 18	2 7/16	PB22439	119	213T	326T	286T*	935	995
	33	5/16	9/16 x 8	3/8	7/16 x 22	2 7/16	PB22439	160	254T	365T	326T*	1145	1195
	36	5/16	9/16 x 8	3/8	7/16 x 22	2 11/16	PB22443	251	—	—	326T*	—	1620
	40	5/16	9/16 x 8	1/2	7/16 x 26	2 15/16	PB22447	423	—	—	365T*	—	2060
	44	3/8	9/16 x 8	1/2	7/16 x 30	2 15/16	PB22447	717	—	—	365T*	—	2560
	49	3/8	11/16 x 16	1/2	7/16 x 34	2 15/16	PB22447	1180	—	—	405T*	—	3040
	54	7/16	11/16 x 16	1/2	7/16 x 34	2 15/16	PB22447	1810	—	—	405T*	—	3480
	60	7/16	11/16 x 16	1/2	7/16 x 38	2 15/16	PB22447	2875	—	—	405T*	—	3670
III	12	1/8	9/16 x 8	1/4	7/16 x 10	1 11/16	P3U227	1.6	56	184T	184T	160	213
	15	3/16	9/16 x 8	1/4	7/16 x 14	1 11/16	P3U227	4.7	143T	215T	215T*	235	250
	18	3/16	9/16 x 8	1/4	7/16 x 14	1 15/16	P3U231	11	143T	256T	256T*	350	375
	22	1/4	9/16 x 8	1/4	7/16 x 18	1 15/16	PB22431	29	182T	286T	256T*	490	525
	24	1/4	9/16 x 8	1/4	7/16 x 18	1 15/16	PB22431	44	182T	286T	286T*	580	635
	27	5/16	9/16 x 16	3/8	7/16 x 18	2 3/16	PB22435	78	182T	286T	286T*	660	820
	30	5/16	9/16 x 16	3/8	7/16 x 18	2 7/16	PB22439	119	213T	326T	286T*	935	1040
	33	5/16	9/16 x 16	3/8	7/16 x 22	2 7/16	PB22439	160	254T	365T	326T*	1145	1210
	36	5/16	9/16 x 16	3/8	7/16 x 22	2 11/16	PB22443	251	—	—	326T*	—	1630
	40	5/16	9/16 x 16	1/2	7/16 x 26	2 15/16	PB22447	423	—	—	365T*	—	2080
	44	3/8	9/16 x 16	1/2	7/16 x 30	2 15/16	PB22447	717	—	—	365T*	—	2580
	49	3/8	11/16 x 16	1/2	7/16 x 34	2 15/16	PB22447	1180	—	—	405T*	—	3110
	54	7/16	11/16 x 16	1/2	7/16 x 34	2 15/16	PB22447	1810	—	—	405T*	—	3500
	60	7/16	11/16 x 16	1/2	7/16 x 38	2 15/16	PB22447	2875	—	—	405T*	—	3800

*** Motor Frames exceeding these values must be Arrangement 9M, Arrangement 1, or Arrangement 8.**
For other Arrangement maximum motor frame size and dimensions, please contact factory.

Series 41P

Class	Fan Size	Flanges: Inlet Thickness	Flanges: Inlet Holes	Flanges: Outlet Thickness	Flanges: Outlet Holes 100% & 66%	Shaft & Bearings Size	Shaft & Bearings Drive Side	Shaft & Bearings Inlet Side	FA Type Wheel WR² (Lbs.-Ft.²)	Maximum Motor Frame Arr. #10	Installation Weights (Lbs. Less Motor)
II	12	1/8	7/16 x 8	1/4	7/16 x 10	1 11/16	P3U-227	P3U-227	1.6	215T	188
	15	3/16	7/16 x 8	1/4	7/16 x 14	1 11/16	P3U-227	P3U-227	4.7	215T	215
	18	3/16	7/16 x 8	1/4	7/16 x 14	1 15/16	P3U-231	P3U-231	11	254T	309
	22	1/4	7/16 x 8	1/4	7/16 x 18	1 11/16	P3U-227	P3U-227	29	256T	397
	24	1/4	7/16 x 8	1/4	7/16 x 18	1 15/16	P3U-231	P3U-231	44	256T	554
	27	5/16	9/16 x 8	3/8	7/16 x 18	2 3/16	P3U-235	P3U-235	78	286T	728
	30	5/16	9/16 x 8	3/8	7/16 x 18	2 3/16	PB-22435	P3U-235	119	324T	878
	33	5/16	9/16 x 8	3/8	7/16 x 22	2 3/16	P3U-235	P3U-235	160	324T	1013
	36	5/16	9/16 x 8	3/8	7/16 x 22	2 3/16	P3U-235	P3U-235	251	326T	1131

Series 41P Backward Curved Centrifugal Fan, Packaged, Type FA

Series 41P Hartzell Fiberglass Backward Curved Centrifugal Fan, Packaged, offers **non-overloading, high efficiency, low noise**, and economy for corrosive atmospheres in a **compact packaged Class II design.** This fan is unique in the fan and blower industry. The fan incorporates the proven, highly efficient, backward curved, airfoil-bladed, solid fiberglass, Type FA wheel in a solid fiberglass housing. This design incorporates the airfoil centrifugal wheel, centrifugal fan housing, and inlet cone to produce a compact, highly efficient unit with low noise characteristics.

- **Applications** – Developed to perform throughout the entire **Class II Performance Range** for compatible corrosive applications where it is advantageous to have fiberglass materials and have the motor out of the airstream with the versatility of a belt drive fan.
- **Performance** – Type FA fiberglass airfoil wheel with inlet cone and aerodynamically designed housing produces from **800 CFM to 30,000 CFM** at pressures from **free delivery** to **12" W.G. at high efficiencies** with non-overloading horsepower, low noise, and low RPM. Max. temperature capability is 250°F.

Series 41P
Shown with optional accessories

Hartzell Fan, Inc. certifies that the Series 41P, Fiberglass Backward Curved Centrifugal Fan, Packaged, shown herein is licensed to bear the AMCA seal for air and sound performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound Performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-160.

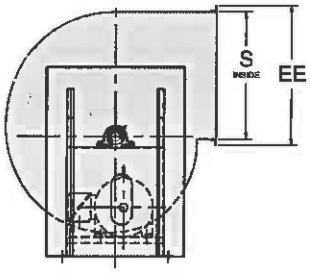
Type FA Wheel

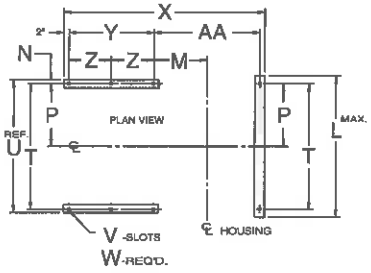
Features

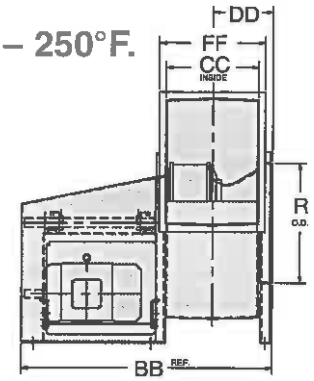
- **Sizes** – 12" through 36" wheel diameters. Packaged Class II construction, Arrangement #10 Belt Drive with weather cover. Available in both 100% and 66% widths.
- **FRP Materials** – Solid fiberglass wheel molded with Dow Derakane 510-A corrosion resistant vinylester resin having a Class I flame spread rate of 25 or less. The housing and other standard FRP components are constructed of fiberglass and Ashland Hertron 693 corrosive resistant polyester resin having a Class I flame spread rate of 25 or less. No metal parts are exposed in the airstream. See Corrosion Resistance Guide on page 5 for resin characteristics. Other resins are available.
- **Type FA Wheel** – **High efficiency, airfoil** design with **one-piece, solid fiberglass**, construction. Tapered inlet side design efficiently moves large volumes of air at high pressures. Wheel has non-overloading horsepower characteristic curve.
- **Rotation and Discharge Positions** – Available in both clockwise and counterclockwise rotations and in all standard discharge positions. Housing discharge position can be changed on fan sizes 12" through 36".
- **Easy Installation and Maintenance** – Motor, drives and bearings are readily accessible for ease in wiring, installation, adjustment, and lubrication. Weather cover and guards are available.
- **Shafts** – Shafts are turned ground and polished, keyed at both ends with fiberglass sleeve in the airstream and sized to operate well below critical speed.
- **Bearings** – Bearings are heavy duty, self-aligning, ball or roller type, in cast iron pillow block housings, selected for long life at maximum Class II construction limits, and include extended lubrication fittings as standard.
- **Standard Shaft Seal** – A fiberglass and neoprene shaft seal is placed where the shaft leaves the housing along with a neoprene shaft slinger between the seal and wheel. Seal is not gas tight.
- **Hardware** – Airstream hardware is Type 304 stainless steel and encapsulated.
- **Motor Out of the Airstream** – Exterior mounting of Drip-Proof Protected motor on an adjustable motor pivot base is standard. Motors can be furnished as TEFC, Mill and Chemical Duty, or to specifications upon request. Motor HP and frame size limits are identified in Dimensions and Material Specifications table.
- **Drives (Belt Drive Fans)** – V-Belt Drives are oversized for long life and continuous duty and are fixed pitch as standard. Variable pitch drives for sizes 24" through 36" are available upon request. Belts are oil, heat, and static resistant type.
- **Balancing** – The fan is electronically statically and dynamically balanced to the requirements of Fan Application Category BV-3 of AMCA ANSI Std. 204-96. All fans receive an inspection prior to shipment and, whenever possible, an operational test.
- **Flanged Duct Connections** – Outlet flange is standard, inlet flange is optional. Flange bolt holes are optional.
- **Bases** – Heavy gauge, welded, hot rolled steel with epoxy coating are standard. **Base is sized to accept maximum motor frame size required for Class II operation.**
- **Options and Accessories** – See pages 22 and 23.
- **Spark Resistant Construction and Protective Coatings** – Spark resistant construction for fiberglass equipment is optional, and for abrasive environments or extremely corrosive environments, special construction is available, see page 23.

Dimensions – Series 41P, Arrangement 10

SERIES 41P, Type FA
Sizes 12" Through 36", Rotatable Housing
Standard Construction – Class II, Maximum Temperature – 250°F.







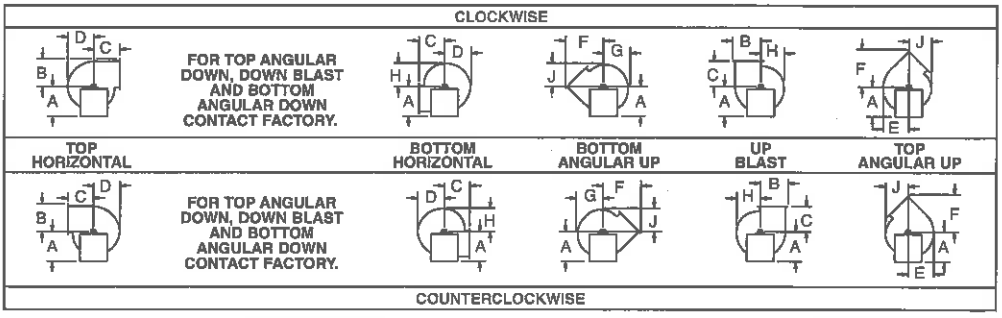
Principal Dimensions (Inches) – Sizes 12" – 36"

Fan Size	A	B	C	D	E	F	G	H	J	L	M 100% Width	M 66% Width	N
12	17	15 1/2	13	11 1/2	12 3/8	20 1/8	10 7/8	10 1/8	11 1/16	20 3/4	7 15/16	7 5/8	5/8
15	17	18 5/8	16 3/16	14 1/2	15 7/16	24 5/8	13 9/16	12 5/8	13 1/4	20 3/4	9 3/16	8 7/16	5/8
18	20	21 15/16	19	17 1/2	18 5/8	28 15/16	16 3/8	15 1/4	15 1/4	24 3/4	9 5/16	8 1/2	5/8
22	24 3/4	26 1/4	21 1/8	21 5/16	22 11/16	33 1/2	19 15/16	18 9/16	17 3/16	29 3/4	10 7/8	9 7/8	5/8
24	27	28 5/16	23	23 1/8	24 5/8	36 5/16	21 11/16	20 3/16	18 11/16	31 1/8	11 5/8	10 1/2	5/8
27	28 1/2	32 1/2	24	26	27 11/16	39 15/16	24 5/16	22 5/8	20 15/16	34 3/8	13 1/16	11 3/16	13/16
30	30 1/2	35	28 1/2	28 1/4	30 1/16	44 15/16	26 3/8	24 9/16	22 3/4	37 5/8	14	12 5/8	13/16
33	37	38 3/16	28 11/16	31	33	47 1/4	29	27	24 15/16	41 5/8	15 1/8	13 5/8	13/16
36	37	41 5/16	31 1/4	33 3/4	36	51 5/16	31 5/8	29 3/8	27 3/16	44 1/8	16 1/4	14 5/8	13/16

Fan Size	P	R	S	T	U	V	W	X 100% Width	X 66% Width	Y	Z	AA 100% Width	AA 66% Width
12	9 3/4	12 1/4	12 7/8	19 1/2	20 3/4	9/16 x 1	6	36 11/16	36	19 5/8	–	14 1/16	13 3/8
15	9 3/4	16 3/8	16 1/8	19 1/2	20 3/4	9/16 x 1	6	39 1/16	37 5/8	19 5/8	–	16 7/16	15
18	10 1/2	19 3/8	19 3/8	21	22 1/4	9/16 x 1	6	46 1/8	44 3/8	25 1/4	–	17 7/8	16 1/8
22	11 1/8	23 3/4	23 11/16	22 1/4	23 1/2	9/16 x 1	6	49 1/4	47 1/8	25 1/4	–	21	18 7/8
24	10 1/2	25 3/4	25 3/4	21	22 1/4	9/16 x 1	6	50 3/4	48 1/2	25 1/4	–	22 1/2	20 1/4
27	13 3/16	28 5/8	29	26 3/8	28	11/16 x 1 1/2	8	58	55 7/16	29 5/8	14 13/16	25 3/8	22 13/16
30	13 7/8	31 1/16	31 1/2	27 3/4	29 3/8	11/16 x 1 1/2	8	63 3/16	60 7/16	33	16 1/2	27 3/16	24 7/16
33	13 7/8	34 1/16	34 11/16	27 3/4	29 3/8	11/16 x 1 1/2	8	65 9/16	62 1/2	33	16 1/2	29 9/16	26 1/2
36	13 7/8	37 1/16	37 13/16	27 3/4	29 3/8	11/16 x 1 1/2	8	67 13/16	64 1/2	33	16 1/2	31 13/16	28 1/2

Fan Size	BB 100% Width	BB 66% Width	CC 100% Width	CC 66% Width	DD 100% Width	DD 66% Width	EE	FF 100% Width	FF 66% Width
12	37 5/8	37	9 5/16	8 11/16	8 1/8	7 13/16	18 1/8	14 3/8	13 1/2
15	40 1/8	38 5/8	11 11/16	10 5/16	9 5/16	8 1/2	21 1/16	16 5/8	15 1/4
18	47 1/16	45 3/8	14	12 5/16	10 9/16	9 11/16	24 1/2	19 1/16	17 3/8
22	50 3/16	48 1/8	17 1/8	15 1/16	12 1/8	11 1/16	28 3/4	22 1/4	20 3/16
24	51 3/4	49 1/2	18 11/16	16 3/8	12 15/16	11 3/4	30 13/16	23 11/16	21 1/2
27	59	56 1/2	21	18 1/2	14 5/16	13 1/16	36	28	25 1/2
30	64 3/16	61 1/2	22 13/16	20 1/8	15 1/4	13 7/8	38 1/2	29 13/16	27 1/8
33	66 9/16	63 9/16	25 1/8	22 1/8	16 7/16	14 15/16	41 5/8	32 1/8	29 1/8
36	68 13/16	65 9/16	27 7/16	24 1/8	17 9/16	15 15/16	44 13/16	34 3/8	31 1/8

Dimensions and specifications are subject to change. Clockwise Rortatiom is shown. Certified prints are available.



Fan Discharges

Scrolls are rotatable. BH and BAU rotations require a 3" tall height adjusting sub-base. TAD, BAD and DB discharge must have discharge extension. Contact factory.

Performance Data

Class I | Class II | Class III

A41-_-12_FA100FG_ _ _ _or A41PO-122FA100FG_ _ _ _

Wheel Diameter: 12.25 in.
Outlet Area: 0.87 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
1000	1149	1691	0.27	**2078**	**0.50**	**2418**	**0.75**										
1200	1379	1873	0.36	2219	0.61	**2529**	**0.89**	**2814**	**1.20**	3083	1.54						
1400	1609	2066	0.48	2379	0.76	**2665**	**1.06**	**2929**	**1.39**	**3177**	**1.74**	**3414**	**2.12**				
1600	1839	2260	0.62	2557	0.93	2819	1.26	**3066**	**1.61**	**3297**	**1.98**	**3517**	**2.38**	**3934**	**3.23**	4324	4.18
1800	2069	2451	0.78	2747	1.15	2987	1.50	3218	1.87	**3436**	**2.27**	**3643**	**2.69**	**4034**	**3.57**	**4404**	**4.54**
2000	2299	2646	0.98	2941	1.39	3169	1.77	3382	2.17	3588	2.60	**3784**	**3.04**	**4155**	**3.97**	**4504**	**4.96**
2200	2529	2846	1.21	3137	1.67	3359	2.10	3558	2.52	3751	2.97	3937	3.43	**4291**	**4.41**		
2400	2759	3052	1.48	3326	1.97	3554	2.46	3745	2.92	3924	3.38	4100	3.87	4437	4.91		
2600	2989	3263	1.80	3518	2.32	3750	2.87	3937	3.37	4109	3.86	4272	4.37				
2800	3218	3477	2.18	3714	2.70	3941	3.30	4131	3.86	4298	4.40	4456	4.93				
3000	3448	3694	2.61	3913	3.14	4132	3.78	4328	4.41	4492	4.98						
3200	3678	3912	3.10	4115	3.64	4324	4.30	4520	4.99								

A41-_-12_ FA-66FG_ _ _ _or A41PO-122FA-66FG_ _ _ _

Wheel Diameter: 12.25 in.
Outlet Area: 0.73 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
800	1096	**2144**	**0.46**	**2472**	**0.71**	2777	1.00	3062	1.31	3328	1.66						
1000	1370	2359	0.62	**2646**	**0.87**	**2914**	**1.17**	3168	1.50	3412	1.85	3868	2.64				
1200	1644	2593	0.81	2861	1.11	**3101**	**1.40**	**3329**	**1.74**	**3549**	**2.11**	3966	2.92	4359	3.83	4729	4.81
1400	1918	2838	1.03	3094	1.39	3320	1.73	**3528**	**2.07**	**3728**	**2.44**	**4109**	**3.28**	4470	4.21	4818	5.21
1600	2192	3095	1.29	3333	1.70	3553	2.11	3751	2.49	3937	2.88	**4288**	**3.72**	**4623**	**4.66**	4943	5.70
1800	2466	3362	1.59	3583	2.05	3791	2.51	3985	2.97	4164	3.41	4494	4.28	**4805**	**5.23**	**5105**	**6.28**
2000	2740	3637	1.95	3843	2.46	4038	2.97	4224	3.48	4399	3.99	4718	4.96	**5011**	**5.94**	**5291**	**6.98**
2200	3014	3918	2.38	4112	2.92	4294	3.48	4470	4.04	4638	4.60	4951	5.72	**5233**	**6.77**		
2400	3288	4205	2.89	4386	3.45	4558	4.05	4724	4.67	4884	5.28	5187	6.50				
2600	3562	4494	3.48	4666	4.06	4829	4.69	4986	5.35	5137	6.02						
2800	3836	4788	4.17	4950	4.76	5104	5.42	5254	6.11								
3000	4110	5084	4.96	5237	5.56												

A41-_-15_ FA100FG_ _ _ _or A41PO-152FA100FG_ _ _ _

Wheel Diameter: 15.375 in.
Outlet Area: 1.3 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
1500	1154	1316	0.38	**1615**	**0.68**	**1874**	**1.03**										
1800	1385	1462	0.51	1725	0.85	**1965**	**1.22**	**2184**	**1.64**	**2384**	**2.08**						
2100	1615	1615	0.68	1852	1.05	2073	1.46	**2277**	**1.90**	**2467**	**2.38**	**2645**	**2.88**				
2400	1846	1758	0.87	1995	1.30	2193	1.75	**2384**	**2.22**	**2563**	**2.73**	**2733**	**3.26**	**3047**	**4.39**		
2700	2077	1894	1.08	2146	1.60	2326	2.08	2503	2.59	**2671**	**3.13**	**2832**	**3.69**	**3134**	**4.89**	**3411**	**6.17**
3000	2308	2038	1.34	2300	1.95	2473	2.48	2632	3.02	2791	3.59	2943	4.19	**3230**	**5.45**	**3498**	**6.79**
3300	2538	2193	1.66	2444	2.33	2625	2.93	2774	3.51	2919	4.12	3063	4.75	**3336**	**6.07**	**3593**	**7.48**
3600	2769	2358	2.04	2578	2.73	2779	3.45	2924	4.08	3058	4.71	3191	5.38	3451	6.77		
3900	3000	2526	2.48	2716	3.19	2929	4.01	3077	4.71	3206	5.39	3328	6.08	3574	7.55		
4200	3231	2697	3.00	2861	3.71	3064	4.59	3231	5.41	3358	6.15	3476	6.88				
4500	3462	2870	3.59	3013	4.31	3199	5.22	3381	6.17	3511	6.98						
4800	3692	3044	4.25	3174	5.01	3338	5.92	3516	6.93								

A41-_-15_ FA-66FG_ _ _ _or A41PO-152FA-66FG_ _ _ _

Wheel Diameter: 15.375 in.
Outlet Area: 1.15 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
800	696	1512	0.38														
1200	1043	**1642**	**0.54**	**1913**	**0.82**	2155	1.12	2375	1.46	2578	1.83						
1600	1391	1820	0.75	**2064**	**1.09**	**2284**	**1.44**	**2487**	**1.82**	**2676**	**2.21**	3023	3.06	3338	4.00		
2000	1739	2026	1.03	2248	1.42	**2451**	**1.83**	**2637**	**2.26**	**2812**	**2.71**	**3137**	**3.64**	**3436**	**4.63**	3713	5.69
2400	2087	2250	1.39	2454	1.84	2641	2.31	2815	2.79	**2979**	**3.29**	**3283**	**4.33**	**3564**	**5.43**	**3827**	**6.56**
2800	2435	2487	1.84	2676	2.35	2849	2.88	3012	3.42	3166	3.98	**3453**	**5.13**	**3718**	**6.33**	**3967**	**7.58**
3200	2783	2734	2.40	2909	2.97	3071	3.56	3223	4.16	3368	4.77	3640	6.04	**3892**	**7.35**	**4129**	**8.71**
3600	3130	2989	3.08	3150	3.71	3303	4.37	3446	5.03	3583	5.70	3840	7.08	4080	8.51	**4307**	**9.98**
4000	3478	3250	3.90	3400	4.59	3542	5.31	3678	6.04	3807	6.77	4051	8.27	4280	9.81		
4400	3826	3517	4.88	3655	5.63	3788	6.40	3916	7.19	4040	7.99	4272	9.61				
4800	4174	3787	6.04	3915	6.84	4040	7.66	4161	8.51	4278	9.38						
5200	4522	4060	7.39	4181	8.24	4298	9.12										

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-18_ FA100FG_ _ _ _or A41PO-182FA100FG_ _ _ _

Wheel Diameter: 18.5 in.
Outlet Area: 1.88 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
2000	1064	1030	0.46	**1288**	**0.85**	1530	1.34										
2500	1330	1154	0.64	1383	1.10	**1586**	**1.60**	**1781**	**2.17**	1970	2.81						
3000	1596	1288	0.87	1496	1.40	**1681**	**1.97**	**1851**	**2.57**	**2013**	**3.21**	**2176**	**3.93**				
3500	1862	1417	1.15	1622	1.77	1792	2.40	1949	3.07	**2096**	**3.76**	**2237**	**4.48**	**2516**	**6.10**	2784	7.91
4000	2128	1544	1.47	1756	2.22	1912	2.91	2059	3.65	2197	4.41	**2328**	**5.18**	**2577**	**6.83**	**2821**	**8.67**
4500	2394	1680	1.87	1892	2.75	2043	3.53	2179	4.31	2309	5.14	2433	5.99	**2665**	**7.74**	**2885**	**9.60**
5000	2660	1826	2.37	2017	3.31	2178	4.24	2307	5.09	2428	5.97	2545	6.89	2767	8.79	**2973**	**10.7**
5500	2926	1978	2.97	2143	3.95	2314	5.04	2441	5.99	2556	6.93	2666	7.90	2876	9.93		
6000	3191	2133	3.69	2275	4.68	2439	5.87	2576	6.99	2689	8.02	2793	9.05	2993	11.2		
6500	3457	2290	4.52	2414	5.54	2564	6.78	2711	8.09	2824	9.23	2926	10.3				
7000	3723	2449	5.49	2561	6.55	2693	7.81	2835	9.21	2959	10.6						
7500	3989	2609	6.59	2712	7.70	2828	8.97	2960	10.4								

A41-_-18_ FA-66FG_ _ _ _or A41PO-182FA-66FG_ _ _ _

Wheel Diameter: 18.5 in.
Outlet Area: 1.86 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
1500	904	**1315**	**0.68**	1542	1.06	1750	1.48										
2000	1205	**1442**	**0.91**	**1649**	**1.36**	**1832**	**1.83**	2002	2.34	2161	2.87						
2500	1506	1584	1.20	**1779**	**1.72**	**1952**	**2.26**	**2109**	**2.84**	**2255**	**3.43**	2527	4.69	2780	6.04	3023	7.50
3000	1807	1741	1.57	1921	2.14	**2086**	**2.76**	**2236**	**3.41**	**2374**	**4.07**	**2630**	**5.47**	**2864**	**6.93**	3084	8.48
3500	2108	1911	2.03	2076	2.67	2229	3.34	**2372**	**4.06**	**2507**	**4.80**	**2751**	**6.34**	**2974**	**7.95**	**3182**	**9.62**
4000	2410	2089	2.60	2241	3.31	2384	4.05	2518	4.81	2646	5.62	**2883**	**7.31**	**3098**	**9.06**	**3297**	**10.9**
4500	2711	2273	3.29	2415	4.08	2548	4.88	2674	5.71	2794	6.56	3021	8.38	**3231**	**10.3**	**3424**	**12.2**
5000	3012	2464	4.11	2595	4.97	2720	5.86	2838	6.75	2952	7.67	3167	9.58	3369	11.6	**3559**	**13.7**
5500	3313	2659	5.07	2780	6.01	2897	6.98	3009	7.96	3117	8.94	3321	11.0	3514	13.1		
6000	3614	2858	6.19	2970	7.22	3079	8.26	3185	9.31	3288	10.4	3482	12.5				
6500	3916	3060	7.49	3164	8.60	3267	9.71	3366	10.8	3463	12.0						
7000	4217	3264	8.99	3362	10.2	3457	11.4	3551	12.5								

A41-_-22_ FA100FG_ _ _ _or A41PO-222FA100FG_ _ _ _

Wheel Diameter: 22.625 in.
Outlet Area: 2.81 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
3200	1139	843	0.70	**1051**	**1.30**	1253	2.02										
4000	1423	931	0.95	1131	1.67	**1294**	**2.43**	**1455**	**3.29**	1616	4.25						
4800	1708	1027	1.28	1225	2.14	**1374**	**2.99**	**1511**	**3.90**	**1643**	**4.87**	**1779**	**5.95**				
5600	1993	1144	1.73	1311	2.65	1467	3.67	1593	4.66	**1711**	**5.71**	**1826**	**6.81**	**2056**	**9.23**	2284	11.9
6400	2278	1266	2.30	1400	3.25	1558	4.42	1686	5.57	1796	6.70	**1901**	**7.88**	**2103**	**10.4**	**2303**	**13.1**
7200	2562	1393	2.99	1511	4.03	1642	5.22	1780	6.57	1890	7.85	1990	9.12	**2176**	**11.8**	**2354**	**14.6**
8000	2847	1520	3.82	1629	4.99	1736	6.18	1862	7.60	1985	9.11	2084	10.5	2261	13.4	**2428**	**16.3**
8800	3132	1650	4.81	1752	6.11	1848	7.38	1950	8.77	2067	10.4	2178	12.0	2355	15.1		
9600	3416	1781	5.97	1877	7.40	1966	8.78	2054	10.2	2153	11.8	2260	13.6				
10400	3701	1914	7.31	2004	8.89	2087	10.4	2169	11.9	2251	13.5	2346	15.2				
11200	3986	2047	8.86	2132	10.6	2211	12.2	2287	13.8	2363	15.5	2440	17.2				
12000	4270	2181	10.6	2261	12.5	2337	14.2	2409	16.0								

A41-_-22_ FA-66FG_ _ _ _or A41PO-222FA-66FG_ _ _ _

Wheel Diameter: 22.625 in.
Outlet Area: 2.48 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
2800	1129	**1131**	**1.19**	**1308**	**1.80**	**1461**	**2.42**	1603	3.10								
3500	1411	1230	1.54	**1394**	**2.24**	**1542**	**2.98**	**1675**	**3.75**	**1797**	**4.53**	2025	6.22				
4200	1694	1343	1.96	1494	2.75	**1631**	**3.59**	**1759**	**4.47**	**1878**	**5.38**	**2092**	**7.22**	2288	9.17		
4900	1976	1465	2.48	1604	3.36	1732	4.29	**1852**	**5.26**	**1965**	**6.26**	**2175**	**8.36**	**2362**	**10.5**	**2535**	**12.7**
5600	2258	1590	3.10	1723	4.09	1843	5.10	1955	6.16	**2062**	**7.25**	**2262**	**9.54**	**2446**	**11.9**	**2616**	**14.4**
6300	2540	1718	3.82	1847	4.93	1961	6.05	2067	7.19	2167	8.37	**2357**	**10.8**	**2534**	**13.4**	**2699**	**16.1**
7000	2823	1853	4.68	1973	5.89	2084	7.13	2185	8.37	2280	9.64	2460	12.3	**2629**	**15.0**	**2788**	**17.9**
7700	3105	1993	5.69	2102	6.99	2209	8.35	2307	9.70	2398	11.1	2570	13.9	2732	16.8	**2884**	**19.9**
8400	3387	2139	6.89	2236	8.25	2336	9.70	2433	11.2	2521	12.7	2686	15.7	2840	18.8		
9100	3669	2287	8.28	2374	9.71	2466	11.2	2558	12.8	2647	14.5	2806	17.7	2954	21.0		
9800	3952	2439	9.87	2517	11.4	2601	13.0	2687	14.6	2772	16.4	2929	19.8				
10500	4234	2591	11.7	2664	13.3	2740	14.9	2820	16.7	2900	18.5						

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-24_FA100FG_ _ _ _or A41PO-242FA100FG_ _ _ _

Wheel Diameter: 24.625 in.
Outlet Area: 3.33 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
3000	901	**706**	**0.61**	939	1.27												
4000	1201	794	0.89	**980**	**1.62**	1155	**2.48**										
5000	1502	877	1.22	1062	2.12	**1207**	**3.05**	**1346**	**4.07**	1488	5.22						
6000	1802	978	1.67	1154	2.73	1290	3.79	**1411**	**4.90**	**1528**	**6.08**	**1643**	**7.35**	1878	10.2		
7000	2102	1094	2.29	1234	3.39	1382	4.69	1496	5.92	**1601**	**7.19**	**1702**	**8.53**	**1900**	**11.4**	2103	14.7
8000	2402	1214	3.07	1330	4.23	1465	5.64	1588	7.11	**1688**	**8.52**	**1781**	**9.96**	**1960**	**13.0**	**2132**	**16.2**
9000	2703	1338	4.01	1442	5.32	1549	6.72	1673	8.38	1781	10.0	1871	11.6	**2037**	**14.8**	**2195**	**18.3**
10000	3003	1463	5.15	1559	6.61	1651	8.08	1754	9.75	1865	11.6	1964	13.5	2125	17.0		
11000	3303	1589	6.50	1679	8.14	1763	9.73	1848	11.4	1946	13.3	2047	15.3	2217	19.3		
12000	3604	1717	8.10	1802	9.91	1880	11.6	1956	13.4	2035	15.2	2128	17.4				
13000	3904	1846	9.95	1926	11.9	1999	13.8	2070	15.7	2141	17.6	2216	19.7				
14000	4204	1976	12.1	2050	14.2	2121	16.3	2188	18.3								

A41-_-24_FA-66FG_ _ _ _or A41PO-242FA-66FG_ _ _ _

Wheel Diameter: 24.625 in.
Outlet Area: 2.94 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
3000	1020	**1008**	**1.28**	**1173**	**1.94**	1320	2.65										
4000	1361	**1113**	**1.74**	**1266**	**2.55**	**1403**	**3.42**	**1525**	**4.29**	**1639**	**5.21**						
5000	1701	1237	2.34	1375	3.28	**1501**	**4.28**	**1618**	**5.32**	**1728**	**6.40**	**1924**	**8.60**	**2104**	**10.9**		
6000	2041	1373	3.10	1499	4.17	1615	5.30	**1723**	**6.47**	**1826**	**7.68**	**2016**	**10.2**	**2189**	**12.8**	**2346**	**15.5**
7000	2381	1512	4.03	1633	5.26	1740	6.52	1841	7.82	**1936**	**9.16**	**2116**	**12.0**	**2282**	**14.9**	**2437**	**17.9**
8000	2721	1658	5.16	1772	6.56	1874	7.97	1968	9.40	2058	10.9	**2226**	**13.9**	**2384**	**17.1**	**2532**	**20.4**
9000	3061	1812	6.56	1913	8.08	2013	9.67	2103	11.3	2187	12.9	**2346**	**16.2**	**2496**	**19.6**	**2637**	**23.2**
10000	3401	1973	8.25	2062	9.87	2153	11.6	2242	13.4	2323	15.1	2474	18.7	2616	22.4		
11000	3741	2138	10.3	2216	12.0	2298	13.8	2381	15.7	2462	17.7	2608	21.6				
12000	4082	2305	12.7	2376	14.5	2450	16.4	2526	18.5	2602	20.5						
13000	4422	2477	15.4	2540	17.4	2606	19.4	2675	21.5								
14000	4762	2649	18.6	2707	20.7												

A41-_-27_FA100FG_ _ _ _or A41PO-272FA100FG_ _ _ _

Wheel Diameter: 27.625 in.
Outlet Area: 4.22 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
4800	1137	687	1.05	**857**	**1.95**	1019	3.01										
6000	1422	762	1.45	921	2.52	**1055**	**3.66**	**1186**	**4.93**	1313	6.32						
7200	1706	835	1.93	999	3.24	1119	4.51	**1231**	**5.87**	**1339**	**7.32**	**1449**	**8.91**				
8400	1991	929	2.58	1073	4.06	1196	5.55	1297	7.04	**1394**	**8.60**	**1488**	**10.2**	**1675**	**13.8**	1856	17.8
9600	2275	1028	3.41	1143	4.95	1276	6.75	1375	8.42	1463	10.1	**1549**	**11.9**	**1714**	**15.6**	**1877**	**19.7**
10800	2559	1130	4.42	1228	6.08	1343	7.99	1455	9.99	1541	11.9	1621	13.8	**1773**	**17.7**	**1919**	**21.9**
12000	2844	1234	5.64	1323	7.46	1415	9.40	1525	11.6	1621	13.8	1700	15.9	1842	20.2	**1978**	**24.6**
13200	3128	1340	7.08	1422	9.08	1502	11.1	1593	13.4	1693	15.9	1780	18.3	1919	22.9		
14400	3412	1446	8.78	1524	11.0	1597	13.2	1671	15.4	1760	18.0	1851	20.8	1999	25.9		
15600	3697	1554	10.8	1627	13.1	1695	15.5	1762	17.9	1834	20.5	1918	23.3				
16800	3981	1662	13.0	1731	15.6	1795	18.1	1858	20.7	1921	23.3	1990	26.2				
18000	4265	1771	15.6	1836	18.3	1897	21.1	1956	23.8								

A41-_-27_FA-66FG_ _ _ _or A41PO-272FA-66FG_ _ _ _

Wheel Diameter: 27.625 in.
Outlet Area: 3.73 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
3600	965	**870**	**1.50**	1026	2.31												
4800	1287	959	2.06	**1091**	**2.99**	**1213**	**4.00**	**1330**	**5.09**								
6000	1609	1065	2.80	1185	3.89	**1293**	**5.03**	**1395**	**6.23**	**1492**	**7.49**	**1679**	**10.2**				
7200	1930	1169	3.73	1291	5.00	1392	6.29	**1485**	**7.63**	**1573**	**9.02**	**1739**	**12.0**	**1898**	**15.1**	2051	18.5
8400	2252	1281	4.86	1395	6.34	1499	7.81	1587	9.31	1669	10.8	**1823**	**14.1**	**1967**	**17.4**	**2106**	**21.0**
9600	2574	1405	6.22	1503	7.91	1602	9.60	1694	11.3	1773	13.0	1919	16.5	**2054**	**20.1**	**2182**	**23.9**
10800	2895	1536	7.85	1620	9.75	1709	11.7	1797	13.5	1881	15.4	2022	19.3	2151	23.2	**2272**	**27.3**
12000	3217	1669	9.80	1747	11.9	1823	14.0	1904	16.1	1984	18.2	2130	22.4	2255	26.7	2370	31.1
13200	3539	1806	12.1	1878	14.4	1947	16.7	2017	19.0	2091	21.3	2234	26.0	2362	30.6		
14400	3861	1943	14.8	2011	17.2	2076	19.7	2140	22.2	2204	24.8	2338	29.9				
15600	4182	2082	17.9	2147	20.5	2208	23.2	2267	25.9	2326	28.7						
16800	4504	2222	21.5	2284	24.3	2342	27.1	2398	30.0								

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-30_FA100FG_ _ _ _or A41P0-302FA100FG_ _ _ _

Wheel Diameter: 30.0 in.
Outlet Area: 4.98 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
6000	1205	651	1.35	**801**	**2.45**	**943**	**3.71**										
7500	1506	721	1.87	869	3.21	**987**	**4.59**	**1101**	**6.11**	**1214**	**7.79**	1322	9.58				
9000	1807	799	2.53	947	4.16	1055	5.74	**1154**	**7.39**	**1249**	**9.14**	**1344**	**11.0**	1530	15.1		
10500	2108	893	3.43	1014	5.20	1132	7.12	1224	8.95	**1309**	**10.9**	**1392**	**12.8**	**1554**	**17.1**	**1716**	**21.9**
12000	2410	992	4.56	1087	6.43	1205	8.65	1301	10.8	1381	12.9	1457	15.0	**1603**	**19.6**	**1744**	**24.4**
13500	2711	1093	5.96	1178	8.01	1271	10.3	1376	12.8	1459	15.2	1531	17.6	**1666**	**22.4**	**1795**	**27.5**
15000	3012	1195	7.64	1273	9.90	1349	12.3	1441	14.9	1534	17.8	1609	20.4	1738	25.7		
16500	3313	1298	9.64	1371	12.1	1440	14.7	1513	17.3	1599	20.4	1684	23.5	1815	29.3		
18000	3614	1403	12.0	1471	14.7	1535	17.4	1599	20.3	1669	23.3	1748	26.6				
19500	3916	1508	14.7	1573	17.7	1632	20.6	1691	23.6	1750	26.7	1817	30.1				
21000	4217	1615	17.9	1675	21.1	1732	24.3	1786	27.4	1841	30.7						
22500	4518	1722	21.5	1778	24.9	1833	28.3										

A41-_-30_FA-66FG_ _ _ _or A41P0-302FA-66FG_ _ _ _

Wheel Diameter: 30.0 in.
Outlet Area: 4.39 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
4500	1025	**814**	**1.87**	**952**	**2.85**												
6000	1367	906	2.62	**1024**	**3.76**	**1132**	**4.98**	**1236**	**6.30**	1335	7.69						
7500	1708	1010	3.61	1120	4.95	**1217**	**6.34**	**1308**	**7.81**	**1394**	**9.34**	**1560**	**12.6**				
9000	2050	1112	4.85	1224	6.43	1316	8.03	1400	9.67	**1479**	**11.4**	**1628**	**14.9**	**1768**	**18.8**	**1904**	**22.8**
10500	2392	1226	6.37	1325	8.22	1421	10.1	1502	11.9	1577	13.8	**1714**	**17.7**	**1843**	**21.8**	**1967**	**26.2**
12000	2733	1351	8.21	1434	10.3	1522	12.4	1606	14.5	1681	16.7	1812	21.0	**1933**	**25.4**	**2048**	**30.1**
13500	3075	1480	10.4	1555	12.8	1629	15.2	1707	17.6	1783	19.9	1916	24.7	2031	29.5	**2140**	**34.5**
15000	3417	1612	13.1	1681	15.7	1747	18.3	1815	21.0	1885	23.6	2019	28.9	2135	34.2		
16500	3759	1746	16.3	1810	19.1	1871	22.0	1931	24.9	1993	27.8	2120	33.6				
18000	4100	1881	20.0	1942	23.1	1999	26.1	2054	29.3	2109	32.5	2225	38.8				
19500	4442	2018	24.4	2075	27.6	2129	30.9	2181	34.3								
21000	4784	2155	29.3	2209	32.8												

A41-_-33_FA100FG_ _ _ _or A41P0-332FA100FG_ _ _ _

Wheel Diameter: 33.0 in.
Outlet Area: 6.02 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
6000	997	543	1.26	**701**	**2.47**												
8000	1329	620	1.88	**752**	**3.31**	**869**	**4.88**	**986**	**6.67**								
10000	1661	688	2.63	826	4.44	**927**	**6.22**	**1023**	**8.14**	**1116**	**10.2**	**1210**	**12.4**				
12000	1993	778	3.70	899	5.80	1002	7.93	1086	10.1	**1168**	**12.3**	**1246**	**14.6**	**1402**	**19.7**	1554	25.4
14000	2326	875	5.10	968	7.32	1079	9.94	1162	12.4	1236	14.8	**1307**	**17.4**	**1443**	**22.8**	**1576**	**28.6**
16000	2658	976	6.87	1055	9.31	1144	12.1	1240	15.1	1313	17.9	1379	20.7	**1503**	**26.4**	**1622**	**32.6**
18000	2990	1078	9.06	1150	11.8	1220	14.6	1305	17.9	1390	21.3	1457	24.4	1575	30.7		
20000	3322	1182	11.7	1248	14.7	1311	17.8	1376	21.0	1455	24.7	1532	28.5	1652	35.5		
22000	3654	1287	14.9	1349	18.2	1406	21.5	1463	25.0	1525	28.6	1597	32.7				
24000	3987	1393	18.6	1450	22.3	1504	25.9	1556	29.6	1609	33.3	1667	37.4				
26000	4319	1499	23.0	1553	27.0	1604	30.9	1653	34.8								
28000	4651	1607	28.1	1657	32.3												

A41-_-33_FA-66FG_ _ _ _or A41P0-332FA-66FG_ _ _ _

Wheel Diameter: 33.0 in.
Outlet Area: 5.32 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
6000	1128	**763**	**2.51**	**882**	**3.75**	993	5.12										
7500	1410	836	3.31	**941**	**4.72**	**1038**	**6.23**	**1130**	**7.84**	**1219**	**9.55**						
9000	1692	914	4.32	1014	5.92	**1103**	**7.60**	**1186**	**9.36**	**1265**	**11.2**	**1416**	**15.2**				
10500	1974	991	5.52	1093	7.36	1177	9.24	1254	11.2	**1327**	**13.2**	**1464**	**17.4**	**1595**	**22.0**	**1722**	**26.8**
12000	2256	1073	6.95	1169	9.06	1255	11.2	1329	13.3	1398	15.5	**1526**	**20.1**	**1647**	**24.9**	**1763**	**30.0**
13500	2538	1164	8.63	1247	11.0	1331	13.4	1408	15.7	1474	18.1	1596	23.1	**1710**	**28.3**	**1819**	**33.6**
15000	2820	1259	10.6	1332	13.2	1409	15.9	1484	18.5	1553	21.1	1672	26.5	1780	32.0	**1883**	**37.8**
16500	3102	1356	12.9	1423	15.8	1491	18.7	1561	21.6	1629	24.5	1750	30.3	1855	36.2	1953	42.3
18000	3383	1456	15.6	1518	18.7	1579	21.9	1642	25.0	1706	28.2	1828	34.5	1933	40.9		
19500	3665	1556	18.7	1615	22.0	1672	25.4	1727	28.9	1786	32.3	1903	39.1	2013	46.0		
21000	3947	1657	22.2	1713	25.8	1767	29.4	1819	33.1	1871	36.8	1981	44.2				
22500	4229	1759	26.2	1813	30.0	1864	33.8	1913	37.7	1961	41.7						

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-36_FA100FG_ _ _ _or A41P0-362FA100FG_ _ _ _

Wheel Diameter: 36.0 in.
Outlet Area: 7.17 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
10000	1395	565	2.43	684	4.15	**782**	**5.98**										
12000	1674	620	3.27	741	5.34	830	7.42	**913**	**9.59**	**995**	**12.0**						
14000	1953	688	4.35	796	6.76	887	9.14	963	11.6	**1034**	**14.1**	**1104**	**16.7**				
16000	2232	761	5.71	848	8.37	946	11.2	1020	13.9	1086	16.6	**1149**	**19.5**	**1271**	**25.5**		
18000	2510	837	7.39	911	10.3	996	13.4	1079	16.5	1143	19.6	1203	22.7	**1315**	**29.0**	**1423**	**35.9**
20000	2789	913	9.42	981	12.6	1050	15.9	1130	19.4	1202	22.9	1261	26.2	1367	33.2	**1467**	**40.3**
22000	3068	990	11.8	1054	15.2	1114	18.8	1182	22.6	1255	26.5	1320	30.2	1424	37.7	1519	45.4
24000	3347	1068	14.7	1128	18.3	1184	22.2	1239	26.2	1305	30.3	1372	34.6	1482	42.7		
26000	3626	1147	18.0	1204	21.9	1256	26.0	1307	30.2	1360	34.6	1423	39.2				
28000	3905	1226	21.8	1280	26.0	1330	30.3	1377	34.8	1424	39.4	1476	44.2				
30000	4184	1306	26.2	1357	30.6	1405	35.2	1449	39.9	1493	44.8	1538	49.8				
32000	4463	1386	31.2	1435	35.9	1481	40.7	1523	45.7								

A41-_-36_FA-66FG_ _ _ _or A41P0-362FA-66FG_ _ _ _

Wheel Diameter: 36.0 in.
Outlet Area: 6.33 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
6600	1043	**668**	**2.67**	**777**	**4.02**	879	5.49										
8800	1390	742	3.68	**841**	**5.36**	**930**	**7.11**	**1010**	**8.91**	**1087**	**10.8**						
11000	1738	824	5.02	916	6.94	**999**	**9.02**	**1074**	**11.1**	**1145**	**13.3**	**1274**	**17.8**	**1397**	**22.6**	1519	27.8
13200	2085	914	6.80	998	8.93	1076	11.2	**1148**	**13.7**	**1215**	**16.2**	**1337**	**21.3**	**1449**	**26.7**	**1554**	**32.1**
15400	2433	1010	8.90	1087	11.5	1159	14.0	1227	16.6	1290	19.4	**1408**	**25.2**	**1514**	**31.2**	**1615**	**37.3**
17600	2780	1110	11.4	1181	14.5	1248	17.4	1311	20.2	1371	23.1	1483	29.5	**1587**	**36.1**	**1682**	**42.9**
19800	3128	1215	14.4	1279	17.9	1341	21.3	1400	24.5	1457	27.7	1563	34.3	1663	41.5	**1756**	**49.0**
22000	3476	1322	18.1	1381	21.8	1438	25.6	1493	29.5	1547	33.0	1648	40.1	1743	47.6	1833	55.5
24200	3823	1432	22.5	1485	26.4	1538	30.6	1590	34.8	1640	39.0	1736	46.9	1827	54.7		
26400	4171	1544	27.6	1593	31.8	1641	36.2	1689	40.8	1737	45.4	1828	54.4				
28600	4518	1657	33.6	1702	38.1	1747	42.7	1792	47.6	1836	52.5						
30800	4866	1771	40.6	1813	45.7	1855	50.1										

A41-_-40_FA100FG_ _ _ _

Wheel Diameter: 40.25 in.
Outlet Area: 9.43 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
12500	1326	506	3.03	611	5.18	**700**	**7.47**										
15000	1591	554	4.09	663	6.68	743	9.27	**816**	**12.0**	**890**	**15.0**						
17500	1856	616	5.44	712	8.44	794	11.4	861	14.5	**924**	**17.6**	**987**	**20.9**				
20000	2121	681	7.14	758	10.5	846	14.0	912	17.3	971	20.8	**1027**	**24.3**	**1137**	**31.9**		
22500	2386	748	9.23	815	12.8	891	16.7	965	20.6	1023	24.4	1076	28.3	**1176**	**36.3**	**1273**	**44.8**
25000	2651	817	11.8	877	15.7	939	19.9	1011	24.3	1075	28.6	1128	32.8	1223	41.5	**1312**	**50.3**
27500	2916	886	14.8	942	19.0	996	23.5	1057	28.2	1122	33.1	1180	37.8	1273	47.1	1358	56.7
30000	3181	955	18.4	1009	22.9	1059	27.7	1108	32.7	1168	37.9	1227	43.2	1326	53.4		
32500	3446	1026	22.5	1077	27.4	1123	32.5	1169	37.8	1217	43.3	1272	49.0				
35000	3712	1097	27.3	1145	32.5	1189	37.9	1232	43.5	1274	49.3	1321	55.3				
37500	3977	1168	32.8	1214	38.3	1256	44.0	1296	49.9	1336	56.0	1375	62.3				
40000	4242	1240	39.0	1283	44.8	1324	50.9	1362	57.1								

A41-_-40_FA-66FG_ _ _ _

Wheel Diameter: 40.25 in.
Outlet Area: 8.34 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
10000	1199	**639**	**4.11**	**730**	**6.06**	**811**	**8.09**	**887**	**10.2**	962	12.5						
12500	1499	703	5.44	**788**	**7.74**	**864**	**10.1**	**934**	**12.6**	**998**	**15.2**	**1120**	**20.5**	1241	26.4		
15000	1799	773	7.22	852	9.72	924	12.5	**990**	**15.3**	**1051**	**18.2**	**1164**	**24.3**	**1268**	**30.5**	**1368**	**37.0**
17500	2098	848	9.42	921	12.2	989	15.2	1052	18.3	**1111**	**21.6**	**1218**	**28.4**	**1317**	**35.4**	**1408**	**42.5**
20000	2398	927	11.9	995	15.3	1058	18.5	1117	21.9	1173	25.4	**1277**	**32.9**	**1372**	**40.6**	**1460**	**48.5**
22500	2698	1010	14.9	1072	18.8	1131	22.6	1187	26.2	1240	29.9	1339	37.9	**1431**	**46.3**	**1516**	**54.9**
25000	2998	1095	18.4	1152	22.7	1207	27.1	1260	31.2	1310	35.2	1405	43.5	1494	52.5	**1577**	**61.9**
27500	3297	1183	22.6	1235	27.3	1286	32.1	1336	36.8	1383	41.3	1474	50.2	1559	59.5	1639	69.4
30000	3597	1272	27.6	1320	32.5	1367	37.6	1414	42.9	1459	48.1	1545	57.8	1627	67.5		
32500	3897	1363	33.3	1407	38.4	1451	43.9	1495	49.6	1537	55.3	1620	66.2				
35000	4197	1455	39.8	1495	45.3	1536	51.1	1577	57.1	1618	63.2						
37500	4496	1547	47.3	1585	53.1	1623	59.1										

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-44_FA100FG_ _ _ _

Wheel Diameter: 44.5 in.
Outlet Area: 11.53 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
15000	1301	454	3.60	549	6.19	**630**	**8.97**										
18000	1561	496	4.84	594	7.94	667	11.1	**734**	**14.4**	**803**	**18.1**						
21000	1821	550	6.41	639	10.0	712	13.6	773	17.3	**831**	**21.0**	**889**	**25.1**				
24000	2082	607	8.39	679	12.4	759	16.6	818	20.6	872	24.8	**923**	**29.1**	**1024**	**38.3**		
27000	2342	667	10.8	728	15.2	799	19.9	865	24.5	917	29.1	966	33.8	**1057**	**43.4**	**1147**	**53.8**
30000	2602	727	13.8	783	18.5	841	23.6	907	28.8	964	34.0	1011	39.0	1098	49.5	**1179**	**60.2**
33000	2862	788	17.3	840	22.4	890	27.8	947	33.5	1007	39.3	1058	44.9	1142	56.1	1220	67.7
36000	3122	850	21.4	899	26.9	945	32.7	992	38.7	1047	45.0	1101	51.3	1189	63.5		
39000	3382	913	26.3	959	32.1	1002	38.2	1044	44.6	1090	51.3	1141	58.1	1236	71.7		
42000	3643	975	31.8	1020	38.1	1060	44.6	1099	51.3	1138	58.3	1183	65.5				
45000	3903	1039	38.2	1081	44.8	1120	51.7	1156	58.8	1193	66.1	1229	73.7				
48000	4163	1102	45.3	1142	52.4	1180	59.6	1215	67.1								

A41-_-44_FA-66FG_ _ _ _

Wheel Diameter: 44.5 in.
Outlet Area: 10.19 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
12000	1178	**574**	**4.92**	**657**	**7.27**	**730**	**9.72**	**800**	**12.3**	869	15.1						
15000	1472	630	6.48	**708**	**9.26**	**777**	**12.2**	**840**	**15.2**	**899**	**18.2**	**1010**	**24.7**				
18000	1766	692	8.56	764	11.6	**830**	**14.9**	**890**	**18.3**	**945**	**21.8**	**1048**	**29.1**	**1142**	**36.6**	**1235**	**44.6**
21000	2061	758	11.1	825	14.5	887	18.1	944	21.9	**997**	**25.9**	**1095**	**34.0**	**1185**	**42.5**	**1268**	**51.0**
24000	2355	828	14.1	890	18.1	947	22.0	1002	26.0	1053	30.4	**1147**	**39.4**	**1233**	**48.6**	**1314**	**58.2**
27000	2650	901	17.6	958	22.3	1012	26.7	1063	31.1	1111	35.5	1202	45.3	**1286**	**55.5**	**1363**	**65.8**
30000	2944	976	21.7	1029	26.9	1079	32.1	1127	37.0	1173	41.8	1260	51.9	1340	62.8	**1416**	**74.1**
33000	3238	1054	26.6	1102	32.2	1149	37.9	1194	43.6	1238	48.9	1320	59.6	1398	70.9	1471	82.2
36000	3533	1133	32.3	1177	38.2	1220	44.4	1263	50.7	1305	56.9	1383	68.5	1458	80.2		
39000	3827	1213	38.9	1254	45.2	1294	51.8	1334	58.6	1374	65.4	1449	78.4				
42000	4122	1294	46.6	1332	53.1	1370	60.1	1407	67.3	1444	74.6						
45000	4416	1376	55.2	1412	62.2	1447	69.4	1482	77.1								

A41-_-49_FA100FG_ _ _ _

Wheel Diameter: 49.0 in.
Outlet Area: 13.98 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
16000	1144	383	3.49	**478**	**6.32**	**562**	**9.69**										
20000	1431	428	4.92	517	8.28	**588**	**11.9**	**656**	**15.9**	724	20.4						
24000	1717	479	6.65	556	10.8	628	14.8	**688**	**19.1**	**745**	**23.7**	**801**	**28.7**	914	39.7		
28000	2003	532	8.85	602	13.7	667	18.4	728	23.1	**780**	**28.0**	**830**	**33.2**	**927**	**44.6**	1023	57.2
32000	2289	585	11.6	653	17.0	710	22.6	767	28.0	820	33.3	**868**	**38.8**	**955**	**50.5**	**1040**	**63.5**
36000	2575	640	14.9	705	20.9	759	27.2	809	33.5	860	39.4	908	45.4	**992**	**57.8**	**1070**	**71.1**
40000	2861	696	19.0	757	25.5	810	32.3	856	39.4	902	46.3	948	53.0	1033	66.2	**1107**	**80.2**
44000	3147	755	23.7	810	30.9	862	38.3	907	45.9	949	53.6	990	61.3	1072	75.9		
48000	3433	814	29.3	864	37.2	914	45.1	959	53.2	999	61.6	1037	70.1	1113	86.4		
52000	3720	873	35.8	920	44.3	967	52.8	1011	61.5	1050	70.4	1087	79.5				
56000	4006	934	43.3	977	52.4	1021	61.6	1063	70.8	1103	80.2						
60000	4292	995	51.8	1034	61.6	1075	71.4	1116	81.2								

A41-_-49_FA-66FG_ _ _ _

Wheel Diameter: 49.0 in.
Outlet Area: 12.36 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
12000	971	**489**	**4.95**	577	7.63												
16000	1294	541	6.84	**615**	**9.94**	**682**	**13.2**	**748**	**16.8**	811	20.7						
20000	1618	597	9.01	669	12.9	**730**	**16.7**	**786**	**20.7**	**840**	**24.8**	**944**	**33.8**	1045	43.5		
24000	1942	661	11.8	724	16.1	784	20.7	**838**	**25.4**	**887**	**30.0**	**979**	**39.6**	**1068**	**50.0**	1154	61.1
28000	2265	728	15.3	786	20.1	841	25.2	893	30.5	942	36.0	**1028**	**46.7**	**1108**	**57.8**	**1185**	**69.5**
32000	2589	795	19.5	852	25.0	903	30.5	950	36.2	997	42.3	1083	54.7	**1159**	**67.0**	**1230**	**79.5**
36000	2913	865	24.4	920	30.7	968	36.8	1013	43.0	1055	49.4	1137	63.0	1214	77.0	**1282**	**90.8**
40000	3236	938	30.3	988	37.1	1036	44.1	1078	50.9	1118	57.8	1195	72.1	1268	87.4	1337	103
44000	3560	1012	37.3	1058	44.7	1103	52.3	1146	59.9	1184	67.4	1256	82.6	1325	98.6		
48000	3883	1089	45.5	1130	53.3	1172	61.5	1213	69.9	1252	78.2	1321	94.6				
52000	4207	1167	55.0	1204	63.3	1243	72.0	1282	81.0	1319	90.0						
56000	4531	1246	65.9	1280	74.7	1316	83.9	1352	93.4								

Performance shown is for Installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-_-54_FA100FG_ _ _ _

Wheel Diameter: 54.25 in.
Outlet Area: 17.13 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
20000	1168	349	4.41	**434**	**7.91**	**509**	**12.1**										
25000	1459	391	6.22	470	10.4	**535**	**14.9**	**595**	**19.8**	655	25.3						
30000	1751	439	8.44	507	13.6	571	18.6	**625**	**23.9**	**676**	**29.6**	**726**	**35.8**	826	49.3		
35000	2043	487	11.3	550	17.3	608	23.3	662	29.1	**710**	**35.1**	**754**	**41.6**	**840**	**55.6**	925	71.1
40000	2335	536	14.8	597	21.6	648	28.6	699	35.3	746	41.9	790	48.7	**868**	**63.3**	**943**	**79.2**
45000	2627	587	19.1	645	26.6	693	34.4	738	42.3	783	49.8	826	57.2	**903**	**72.6**	**972**	**89.0**
50000	2919	639	24.3	693	32.5	741	41.0	782	49.8	822	58.5	863	66.9	940	83.4	**1007**	**101**
55000	3211	693	30.5	742	39.5	789	48.6	829	58.1	867	67.8	903	77.5	976	95.7		
60000	3503	748	37.7	793	47.5	837	57.4	877	67.5	913	78.0	947	88.5	1014	109		
65000	3795	803	46.1	844	56.7	886	67.4	925	78.2	961	89.3	993	101				
70000	4086	859	55.8	896	67.2	935	78.7	973	90.2	1009	102						
75000	4378	915	66.9	950	79.0	986	91.3										

A41-_-54_FA-66FG_ _ _ _

Wheel Diameter: 54.25 in.
Outlet Area: 15.15 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
15000	990	**444**	**6.19**	**522**	**9.50**												
20000	1320	493	8.58	**559**	**12.4**	**619**	**16.5**	**677**	**21.0**	734	25.7						
25000	1650	545	11.3	609	16.1	**664**	**21.0**	**714**	**25.8**	**762**	**31.0**	**855**	**42.0**	945	54.0		
30000	1980	604	15.0	661	20.3	714	26.0	763	31.8	**807**	**37.6**	**889**	**49.5**	**968**	**62.3**	**1045**	**76.0**
35000	2310	666	19.4	718	25.4	767	31.7	813	38.3	857	45.1	**935**	**58.6**	**1007**	**72.3**	**1075**	**86.7**
40000	2640	728	24.7	780	31.7	824	38.5	867	45.6	908	53.1	986	68.6	**1054**	**84.0**	**1118**	**99.5**
45000	2970	793	31.1	842	38.9	885	46.6	925	54.3	963	62.2	1036	79.1	**1105**	**96.6**	**1167**	**114**
50000	3300	860	38.7	905	47.2	948	56.0	986	64.5	1022	73.1	1090	90.5	**1155**	**110**	**1217**	**129**
55000	3630	929	47.7	970	56.9	1010	66.4	1049	76.0	1083	85.4	1147	104	1209	124		
60000	3960	1001	58.4	1037	68.1	1074	78.3	1110	88.7	1145	99.2	1207	120				
65000	4290	1073	70.6	1105	81.0	1139	91.8	1174	103	1207	114						
70000	4620	1146	84.7	1176	95.7	1207	107										

A41-_-60_FA100FG_ _ _ _

Wheel Diameter: 60.0 in.
Outlet Area: 20.9 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 1" RPM	1" BHP	2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP
24000	1148	313	5.24	**390**	**9.48**	**459**	**14.5**										
30000	1435	350	7.38	422	12.4	**481**	**17.8**	**536**	**23.8**	591	30.5						
36000	1722	392	9.98	455	16.2	513	22.2	**562**	**28.6**	**608**	**35.5**	**654**	**43.1**	746	59.6		
42000	2010	434	13.3	492	20.6	545	27.7	595	34.6	**637**	**42.0**	**678**	**49.8**	**757**	**66.9**	836	85.7
48000	2297	478	17.4	533	25.5	580	34.0	626	41.9	670	49.9	**709**	**58.2**	**780**	**75.8**	**850**	**95.2**
54000	2584	523	22.4	576	31.4	620	40.8	661	50.2	702	59.2	741	68.1	**811**	**86.7**	**874**	**107**
60000	2871	569	28.5	618	38.3	661	48.5	700	59.1	737	69.5	774	79.5	844	99.3	**904**	**120**
66000	3158	616	35.6	662	46.4	704	57.4	741	68.9	775	80.5	809	91.9	876	114		
72000	3445	665	44.0	706	55.8	747	67.6	783	79.9	816	92.4	847	105	909	130		
78000	3732	714	53.8	752	66.5	790	79.3	826	92.2	858	106	888	119				
84000	4019	763	65.0	798	78.6	834	92.4	869	106	901	120						
90000	4306	813	77.8	845	92.4	879	107	912	122								

A41-_-60_FA-66FG_ _ _ _

Wheel Diameter: 60.0 in.
Outlet Area: 18.53 sq. ft.

CFM	Outlet Velocity FPM	Static Pressure 2" RPM	2" BHP	3" RPM	3" BHP	4" RPM	4" BHP	5" RPM	5" BHP	6" RPM	6" BHP	8" RPM	8" BHP	10" RPM	10" BHP	12" RPM	12" BHP
24000	1295	442	10.3	**502**	**14.9**	**557**	**19.9**	**611**	**25.3**	662	31.0						
30000	1619	488	13.5	546	19.3	**596**	**25.1**	**642**	**31.0**	**686**	**37.2**	**771**	**50.6**	853	65.2		
36000	1943	540	17.7	592	24.2	641	31.1	**684**	**38.1**	**725**	**45.0**	**800**	**59.4**	**872**	**75.0**	942	91.6
42000	2267	595	23.0	642	30.2	687	37.7	729	45.8	769	54.0	**840**	**70.1**	**905**	**86.7**	**968**	**104**
48000	2590	650	29.2	696	37.5	737	45.7	776	54.3	814	63.4	884	82.1	**946**	**100**	**1004**	**119**
54000	2914	707	36.6	752	46.0	791	55.2	827	64.5	862	74.1	929	94.5	991	116	**1047**	**136**
60000	3238	766	45.5	807	55.7	846	66.2	881	76.4	914	86.7	976	108	1036	131	1092	154
66000	3562	827	55.9	864	67.0	901	78.4	936	89.9	967	101	1026	124	1082	148		
72000	3886	890	68.2	923	80.0	958	92.3	991	105	1023	117	1079	142				
78000	4209	954	82.5	984	95.0	1015	108	1047	122	1078	135						
84000	4533	1018	98.8	1046	112	1075	126	1104	140								
90000	4857	1083	117	1109	132												

Performance shown is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) does not include drive losses. Performance data is based on standard air conditions (0.075 #/ft.3). Performance ratings do not include the effects of appurtenances in the airstream. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Performance Data

Class I | Class II | Class III

A41-4-_ _ _FA100FG_ _ _ _

Size	Class	Motor HP	Motor Code	Motor (Fan) HP	Motor (Fan) Code	Peak Fan BHP	0"	½"	1"	1½"	2"	2½"	3"	4"	5"	6"	7"	8"	9"	10"	Outlet Area	Wheel Dia. Inches
							Cubic Feet Per Minute vs.Static Pressure															
12	1	½	E	1750	3	0.30	1509	1291	1068	785											0.87	12¼
	2	3	K	3450	2	2.31	2976	2879	2775	2659	2529	2400	2294	2079	1820	1477						
15	1	1	H	1750	3	0.89	2872	2693	2382	2124	1861	1503									1.30	15⅜
	2	7½	M	3450	2	6.79	5663	5581	5494	5400	5298	5185	5034	4653	4380	4147	3896	3598	3254	2836		
18	1	¾	G	1160	4	0.65	3463	3082	2524	1980											1.88	18½
	1	3	K	1750	3	2.24	5225	5007	4745	4344	3979	3668	3317									
22	1	2	J	1160	4	1.85	6636	6181	5709	5085	4253	3373									2.81	22⅝
	1	7½	M	1750	3	6.34	10010	9714	9410	9097	8788	8464	8104	6934	5982							
24	1	3	K	1160	4	2.82	8555	8063	7552	7003	6077	5280	4182								3.33	24⅞
	2	10	N	1750	3	9.68	12907	12585	12256	11919	11578	11241	10885	9948	8671	7624						
27	1	2	J	870	5	2.19	9191	8452	7657	6303	5081										4.22	27⅞
	1	5	L	1160	4	5.18	12255	11711	11141	10564	9870	8690	7850									
	2	20	P	1750	3	17.8	18489	18132	17769	17398	17019	16642	16263	15444	14227	12756	11650	10362				
30	1	3	K	870	5	3.30	11772	10974	10139	8904	7516	5924									4.98	30
	1	7½	M	1160	4	7.82	15696	15106	14494	13875	13215	12312	11032	9137								
	2	30	R	1750	3	26.9	23679	23291	22899	22500	22093	21679	21272	20434	19500	18036	16429	15230	13937	12219		
33	1	5	L	870	5	5.32	15668	14796	13889	12892	11129	9789	8039								6.02	33
	1	15	O	1160	4	12.6	20891	20245	19578	18894	18210	17463	16455	13938	11752							

A41-4-_ _ _FA-66FG_ _ _ _

Size	Class	Motor HP	Motor Code	Motor (Fan) HP	Motor (Fan) Code	Peak Fan BHP	0"	½"	1"	1½"	2"	2½"	3"	4"	5"	6"	7"	8"	10"	12"	Outlet Area	Wheel Dia. Inches
							Cubic Feet Per Minute vs.Static Pressure															
12	1	½	E	1750	3	0.25	1104	950	777	569											0.73	12¼
	2	2	J	3450	2	1.94	2176	2101	2024	1945	1864	1781	1694	1512	1325	1065						
15	1	¾	G	1750	3	0.67	2389	2188	1965	1724	1452	1106									1.15	15⅜
	2	5	L	3450	2	5.14	4711	4611	4510	4407	4301	4192	4080	3848	3607	3355	3086	2793	2050			
18	1	¾	G	1160	4	0.48	2651	2312	1899	1390											1.66	18½
	1	2	J	1750	3	1.63	4000	3786	3555	3301	3027	2726	2391	1501								
	3	15	O	3450	2	12.5	7885	7780	7670	7563	7452	7338	7222	6981	6727	6462	6187	5901	5281	4596		
22	1	1½	I	1160	4	1.29	4970	4626	4158	3620	3019	2263									2.48	22⅝
	1	5	L	1750	3	4.44	7498	7283	7048	6785	6467	6107	5755	5017	4128							
24	1	2	J	1160	4	1.97	6408	6040	5572	4989	4393	3693	2843								2.94	24⅞
	2	7½	M	1750	3	6.78	9667	9435	9185	8913	8601	8239	7842	7075	6237	5238	4037					
27	1	1½	I	870	5	1.54	6990	6312	5567	4611	3605										3.73	27⅞
	1	5	L	1160	4	3.65	9320	8816	8303	7773	7097	6367	5700									
	2	15	O	1750	3	12.5	14060	13728	13393	13054	12712	12374	12027	11241	10250	9336	8436	7368				
30	1	3	K	870	5	2.32	8952	8218	7459	6431	5455	4135									4.39	30
	1	5	L	1160	4	5.51	11936	11390	10832	10273	9651	8854	8081	6535								
	2	20	P	1750	3	18.9	18007	17647	17284	16917	16547	16178	15810	15040	14107	13012	12029	11066	8547			
33	1	5	L	870	5	3.74	11915	11110	10290	9323	8154	7077	5616								5.32	33
	1	10	N	1160	4	8.87	15887	15287	14677	14065	13436	12715	11831	10173	8360							
	3	30	R	1750	4	30.5	23967	23571	23173	22771	22366	21958	21553	20737	19876	18834	17637	16497	14368	11577		

Performance shown is for installation Type D: ducted inlet/ducted outlet. Performance data is based on standard air conditions (0.075 #/ft.3) and constant speed. Performance ratings do not include the effects of appurtenances in the airstream. To complete model code, add size, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.

Options and Accessories

Drain

Fiberglass bulk head fitting assembled in housing, NPT female threaded fitting. 1" NPT on Series 41 and Series 41P.

Access Door

Raised, bolted type door - held in place with zinc plated bolts and gasketed for a tight seal.

Inspection Door

Allows periodic visual inspection of wheel - fastened with stainless steel bolts and gasketed for tight seal.

Flanged Inlet

Fiberglass inlet flange is available. Flanges are drilled upon request. Flanged and drilled inlet is required when inlet control damper is furnished.

Disconnect Switch

On-off switch mounted to the unit to provide safety during maintenance.

V-Belt Drives

Constant speed (fixed pitch) or adjustable speed (variable pitch) oil, heat, and static resistant type V-Belt Drives, oversized for long life and continuous duty as standard, are available upon request.

Inlet Boxes

Solid fiberglass construction. Inlet box improves entry conditions and minimizes losses which are generally associated with duct elbows at the fan inlet. Inlet boxes are designed for specific applications. Contact factory.

Arrangement 1 Sub-Base

Common structural support for Arrangement 1 fan and motor. Specify motor mounting position (see page 6). Epoxy coated steel. Series 41 only.

Arrangements

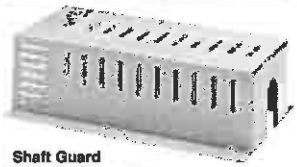
Arrangement 8 and other arrangements not shown are available, (see page 6). Contact factory.

Vibration Isolators

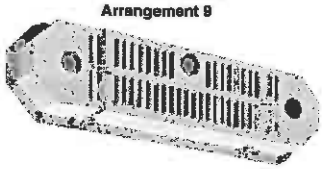
Rubber-in-shear or spring type isolators available on all models.

Drive Guards

Encloses the drive assembly while permitting circulation of ambient air. Standard features include: tach opening, belt tension openings and adjustable length. Series 41 only.



Shaft Guard
Arrangement 9 or 1



Belt Drive Guard
Arrangement 9

Inlet and Outlet Guards

Spiral ring guard offers protection on inlet side and a wire mesh guard can be furnished for the outlet side. Guards are epoxy coated steel.

Combination Drive Guard and Weather Cover

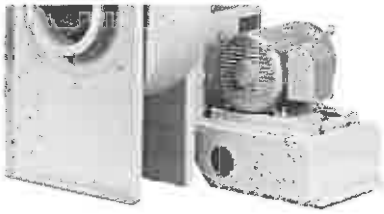
Covers motor and shaft sheaves as well as belts. Combines guarding the drive as well as protection from the weather. Epoxy coated steel. Specify fan arrangement.

Arrangement 9
Series 41

Arrangement 10
Series 41P

Arrangement 9M Motor Base

Accommodates a larger frame size motor than the standard arrangement 9 base. Series 41 only.



General Construction Options

Abrasive/Erosive Resistant Coating

HartKoate is an abrasive/erosive resistant coating developed by Hartzell Fan for application in environments where abrasive/erosive conditions may exist. HartKoate helps prevent premature deterioration of equipment in environments where uncoated fans may fail.

Impact resistant HartKoate is applied to a 50-60 mil thickness suitable for temperatures to 250°F.

HartKoate is particularly appropriate for use when water mist and/or abrasive particles exist in the airstream.

Contact your Hartzell representative for further details concerning the application of HartKoate coating to fiberglass fans in corrosive atmospheres.

Hi-Cor Construction

All airstream surfaces exposed to a corrosive environment will be protected with a layer of Synthetic (Nexus) surfacing veil. An additional final coat of resin will be applied for extra corrosion resistance.

When Hi-Cor construction is required, the factory should be consulted concerning the corrosive environment involved.

Electrostatically Grounded Fiberglass Fans

For applications in which fiberglass fans are handling gas fumes that are not only corrosive but also potentially explosive, the equipment should be specially constructed to control and remove static electricity. Interior airstream surfaces can be coated with a "carbon rich" resin coat and grounding straps secured from the side of the housing to the fan's steel base. All that remains to effectively ground the airstream is to ground the fan base at the time of installation.

SAFETY ACCESSORIES, APPLICATION AND USE WARNING

The safe application and use of equipment supplied by Hartzell Fan, Inc. is the responsibility of the installer, the user, the owner, and the employer. Since the application and use of its equipment can vary greatly, Hartzell Fan, Inc. offers various product types, optional safety accessories, and sound performance data per laboratory tests. Hartzell Fan, Inc. sells its equipment with and without safety accessories, and accordingly, it can supply such safety accessories only upon receipt of an order. The need for safety accessories will frequently depend upon the type of system, fan location and operating procedures being employed. The proper protective safety accessories to meet company standards, local codes, and the requirements of the Occupational Safety and Health Act must be determined by the user since safety requirements vary depending on the location and use of the equipment. If applicable local conditions, standards, codes or OSHA rules require the addition of the safety accessories, the user should specify and obtain the required safety accessories from Hartzell Fan, Inc. and should not allow the operation of the equipment without them.

Owners, employers, users and installers should read "RECOMMENDED SAFETY PRACTICES FOR USERS AND INSTALLERS OF INDUSTRIAL AND COMMERCIAL FANS" published by the Air Movement and Control Association International, Inc., 30 West University Drive, Arlington Heights, Illinois 60004. A copy of this publication is enclosed with each fan shipped from Hartzell Fan, Inc., and is available upon request at Hartzell's office in Piqua, Ohio 45356.

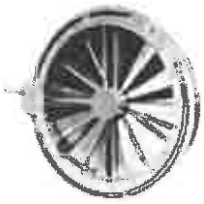
Please contact Hartzell Fan, Inc. or your local Hartzell representative for more information on product types, safety accessories, and sound performance estimates.

Remember, the selection of safety accessories and the safe application and use of equipment supplied by Hartzell Fan, Inc. is **your** responsibility.

Heavy-Duty Control Dampers

Inlet Control Damper

Dampers are mounted on the blower's drilled inlet flange to both increase the efficiency of the system and permit control of air volume. Dampers are epoxy coated or stainless steel construction.



Outlet Dampers

Dampers are mounted directly on the blower outlet to control the volume of air delivered to the system. Opposed and parallel blade dampers are available in steel, stainless steel, coated steel and solid fiberglass.

Parallel Blade Type

Best suited for applications requiring accurate air volume in a range from wide open to 75% of wide open. Usually used for balancing the system or for modulated control when pressure drop is variable.

Opposed Blade Type

Best suited for control over a broad range of air volume with more precise control.

Both types of outlet control dampers are available in three classifications:

Class I – Maximum static pressure: 5" SP
Maximum velocity: 3900 FPM

Class II – Maximum static pressure: 8½" SP
Maximum velocity: 5100 FPM

Class III – Maximum static pressure: 20" SP
Maximum velocity: 6000 FPM

CONTACT YOUR LOCAL HARTZELL REPRESENTATIVE FOR ASSISTANCE.

1-800-336-3267

Hartzell Warranty

LIMITED WARRANTIES

Hartzell represents to Buyer that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938 as amended.

Hartzell also warrants to Buyer its goods to be free from defects in workmanship and material under normal use and service for one (1) year after tender of delivery by Hartzell, plus six months allowance for shipment to approved stocking dealers and distributors. No warranty extends to future performance of goods and any claims for breach of warranty or otherwise accrues upon tender of delivery.

The foregoing constitute Hartzell's sole and exclusive warranties and are in lieu of all other warranties, whether written, oral, express, implied or statutory.

LIMITATION OF LIABILITY FOR BREACH OF WARRANTY

Hartzell's obligation for any breach of warranty is limited to repairing or replacing, at its option, without cost to Buyer at its factory any goods which shall, within such a warranty period, be returned to it with transportation charges prepaid, and which its examination shall disclose to its satisfaction to have been defective. Any request for repair or replacement should be directed to Hartzell Fan, Inc., P.O. Box 919, Piqua, Ohio 45356. Hartzell will not pay for any repairs made outside its factory without its prior written consent. This does not apply to any such Hartzell goods which have failed as a result of faulty installation or abuse, or incorrect electrical connections or alterations, made by others, or use under abnormal operating conditions or misapplication of the goods.

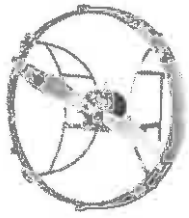
LIMITATION OF LIABILITY

To the extent the above limitation of liability for breach of warranty is not applicable, the liability of Hartzell on any claim of any kind, including negligence, for any loss or damage arising out of or connected with, or resulting from the sale and purchase of the goods or services covered by these Terms and Conditions of Sale or from the performance or breach of any contract pertaining to such sale or purchase or from the design manufacture, sale, delivery, resale, installation, technical direction installation, inspection repair, operation or use of any goods or services covered by these Terms and Conditions shall, in no case exceed the price allocable to the goods or services which gave rise to the claim and shall terminate one year after tender of delivery of said goods or services, plus six months allowance for shipment to approved stocking dealers and distributors.

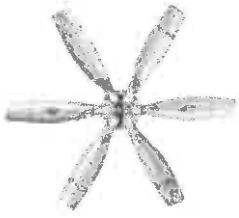
In no event whether as a result of breach of contract, or warranty or alleged negligence, defects, incorrect advice or other causes, shall Hartzell be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of the equipment or any associated equipment, cost of substitute equipment, facilities or services, down time costs, or claims of customers of the Buyer for such damages. Hartzell neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of its goods or services.

NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS

HARTZELL DOES NOT WARRANT THAT SAID GOODS ARE OF MERCHANTABLE QUALITY OR THAT THEY ARE FIT FOR ANY PARTICULAR PURPOSE. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY AND THERE IS NO IMPLIED WARRANTY OF FITNESS.



Propeller Fans



Cooling Tower & Heat Exchanger Fans

Duct Fans

Duct Axial Fans

Vaneaxial Blowers

Cool Blast & Utility Fans

Steel Centrifugal Blowers

Roof Ventilators – Steel & Fiberglass

Heating Equipment – Gas & Steam

Fiberglass Axial Flow Fans

Fiberglass Centrifugal Blowers

Marine – Mine Duty Blowers

Hartzell Fan, Inc., Piqua, Ohio 45356 • Plants in Piqua, Ohio and Portland, Indiana

Litho in U.S.A. A-160-C 4/05 2.5M

City of Plantation
City Council Chambers

Subject:

Request for authorization to execute/exercise the first of three one (1) year renewal options for "Gravity Sewer Main Rehabilitation" Term Contract ITB No. 041-14 with Layne Inliner, LLC. expiring of July 31, 2018.

Item Description:

The current and approved City of Plantation (contract) ITB No. 041-14 for Gravity Sewer Main Rehabilitation is set to expire July 31, 2017.

The Utilities Department currently uses Layne Inliner, LLC to rehabilitate gravity sewer mains to prevent and correct ground water infiltration cause by cracked pipes, separated pipe joints, failed gaskets and damage from tree roots. In addition, this contract incorporates line items relating to the to rehabilitation of "Storm Sewer Main". Section (00300a) is utilized to rehabilitate "storm sewer mains" and is managed by the Engineering Department.

The City of Plantation ITB No. 041-14 calls for three (3), one- (-1) year extensions. The Utilities and Engineering Department has determined Layne Inliner, LLC, has performed in accordance with the requirements of the contract and wishes to exercise/execute the first of three one (1) year allowable renewal options. Attached with this memo you will Layne Inliner's LLC. letter to renew this contract with same terms, conditions, and pricing as set forth in ITB No. 041-14.

This information is provided for you authorization to execute/exercise the first one-year extension for Gravity Sewer Main Rehabilitation-Term Contract, ITB No. 041-14 expiring July 31, 2018

Funding:

405-0000-169-9533 (Utilities Department)
460-5200-538-6302 (Engineering Department)

Amount:

See Attached Bid Schedules

Finance Director/Budget Manager Recommendation:

In FY2017 the Utilities Department budgeted $1,230,000 in the Series 2013 Utilities System Revenue Note Construcion Fund (405) for Neighborhood Sewer Main Rehab projects.

Prepared By:

Charles Spencer

ATTACHMENTS:

Description	Upload Date	Type
Layne Inliner Renewal Letter	4/18/2017	Backup Material
Executed Agreement with Pricing	4/18/2017	Backup Material

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

April 12, 2017

Layne Inliner, LLC.
Michael Cannon
2531 Jewett Lane
Sanford, Florida 32771

Email: Mike.Cannon@Layne.com

Dear Mr. Cannon:

Contract No. 041-14 for the City's Gravity Sewer Main Rehabilitation- Term Contract is set to expire July 31st, 2017 and has a provision for renewal under Article 3- Contract Time of the Agreement for three (3) additional (1) one year renewal periods. This would be the 1st of three (3) allowable renewal options.

Note: The purpose of this letter is to determine your desire to this renewal provision. This inquiry does not constitute an extension or renewal of the contract.

Someone with authorization to sign for your company must place their signature where indicated. THE FORM SIGNOR MUST BE AN OFFICER OF THE COMPANY OR YOU MUST PROVIDE A DOCUMENT FROM AN OFFICER OF THE COMPANY THAT AUTHORIZES THOSE LISTED TO SIGN ON THEIR BEHALF. Only the signature of as authorized officer or someone authorized to bind your company will be accepted.

Your response must be received no later than 4:00 p.m. 4/30/2017. Fax or email response will be accepted, (954) 797-2649 or Espencer@plantation.org. Failure to respond will be deemed as evidence that your firm is no longer interested in requesting its option to renew this contract.

Your cooperation in this matter is appreciated. For further information please contact Procurement Administrator, Charles Spencer at 954-797-2647 or email espencer@plantation.org.

✓ YES: We offer to renew this agreement per the original terms, conditions, specifications and pricing for one (1) year with pricing in accordance with ITB No. 041-14.

Authorized Signature — Vice President
Title

Mark Harris
Print Name — 4/13/2017
Date

____NO: We do not wish to renew this contract for the following reason:

_____

_____

_____
Authorized Signature — Title

AGREEMENT

This Agreement is dated as of the [15] day of [7], in the year 201[5], by and between:

CITY OF PLANTATION, FLORIDA
a municipal corporation
400 NW 73rd Ave
Plantation, Florida 33317
(hereinafter referred to as City)

AND

[Layne Inliner, LLC.]
[2531 Jewett Lane]
[Sanford, Florida 32771]
(Hereinafter referred to as Contractor)

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1 – WORK

The CONTRACTOR shall complete all Work as specified or indicated in the Contract documents for the project entitled:

City of Plantation
[Gravity Sewer Main Rehabilitation- Term Contract]
[ITB No. 041-14]

and generally described as follows but not limited to: [The installation of a cured in place liner for main line gravity sewer mains associated work such as cleaning, bypass pumping, traffic control and t.v. survey] as further defined in the Specification/Scope of Services

Article 2 – ENGINEER

The OWNER has engaged [*N/A*] who is hereafter called ENGINEER and who will assume all duties and responsibilities and will have the rights and authority assigned to ENGINEER in the Contracts Documents in connection with completion of the work in accordance with the Contract Documents. [*N/A*]

Article 3 – CONTRACT TIME

The initial contract period shall be for [2 two years], commencing [August 1, 2015]. In addition, the City reserves the right to renew the contract for [(3) three additional (1) one year periods], under the same terms, conditions and specifications contingent upon Budget approval.

Or If a Construction Contract "N/A"

The work will be substantially completed within [*N/A*] calendar days and finally completed within [*N/A*] calendar days after the date when the contract time commences (Notice to Proceed) to run as provided in the Contract Documents. Paragraph 19 of the Instructions to Respondents contains Liquidated Damages provision.

In the event the services are scheduled to end either by contract expiration or by termination by the City of Plantation (at the City's discretion), the contractor shall continue the services, if requested by the City, until new services can be completely operational. At no time shall this transitional period extend more than one hundred eighty (180) calendar days beyond the expiration date of the existing contract. The contractor will be reimbursed for this service at the rate in effect when this transitional period clause is invoked by the City.

Article 4 – COMPENSATION/PAYMENTS

The OWNER shall pay to the CONTRACTOR for the performance of the Work $[1,863,380.00 (estimated over the first initial contract period.) All payments for services shall be in accordance with unit costs as designated on CONTRACTOR's response to ITB No. 041-14]. For portions of the Contract that are in the accepted proposal as being unit priced, the Contract Sum will be based upon the amounts determined for the total number of each of the units of work completed at the unit price stated. The City reserves the right to increase and decrease quantities, and the final payment shall be made for the actual number of units incorporated in or made necessary by the work covered by this contract.

The Contractor will bill the City at the completion of each job for services rendered of the work defined herein at the rates submitted in their proposal documents now made apart of this contract. Submit invoices to:

City of Plantation
Attn: [Charles Spencer, Utilities Budget and Purchasing Manager]
[400 NW 73 Ave]
Plantation, FL [33317]

Invoices received from the Contractor pursuant to this Contract will be reviewed and approved by the City's representative, indicating that services have been rendered in conformity with the Contract and then will be sent to the Financial Services Department for payment. Invoices will generally be paid within thirty (30) days following the City representative's approval.

Final Invoice: In order for both parties herein to close their books and records, the Contractor will clearly state "final invoice" on the Contractor's final/last billing to the City. This certifies that all services have been properly performed and all charges and costs have been invoiced to the City. Since this account will thereupon be closed, any and other further charges, if not properly included on this final invoice, or which are in excess of the not to exceed amount, are waived by the Contractor.

Progress payments and retainage and final payment provisions are provided for in the Contract Documents. Generally, these documents call for monthly progress payments for approved Work completed less 10% retainage. The balance of the final contract sum shall be due to the CONTRACTOR from the within 21 days after Final Completion. The Florida Construction Contract Prompt Payment Law shall govern payments made pursuant to this Agreement. Any conflict shall be resolved consistent with the law.

Article 5 – CONTRACTOR'S REPRESENTATIONS

In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations, in addition to the representations made in the contract documents as referenced in Article 19.

A. CONTRACTOR has familiarized themselves with the nature and extent of the Contract Documents, Work, locality and with all location conditions and Federal, State and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the Work.

B. CONTRACTOR has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the Work which were relied upon by ENGINEER in the preparation of the Drawings and Specifications and which have been identified in the Contract Documents.

C. CONTRACTOR has made or caused to be made examinations, investigations, tests and studies of such reports and related data in addition to those reference to in Article 5 of the General Conditions as amended by Supplementary Conditions, if any, as they deem necessary for the performance of the Work at the Contract Price, within the Contract Time and in accordance with other terms and conditions of the Contract Documents; and no additional examinations, investigations, test, reports or similar data are or will be required by CONTRACTOR for such purposes.

D. CONTRACTOR has correlated the results of all such observations, examinations investigations, tests, reports and data with terms and conditions of the Contract Documents.

E. CONTRACTOR has given ENGINEER written notice of all conflicts, errors or discrepancies that the CONTRACTOR has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to the CONTRACTOR

Article 6 – RECORDS AND AUDIT

City reserves the right to audit the records of CONTRATOR relating to this Agreement any time during the performance and term of the Agreement and for a period of three (3) years after completion and acceptance by CITY. If required by CITY, CONTRACTOR shall agree to submit to an audit by an independent certified public and review the records of CONTRACTOR at any and all times during normal business hours during the term of this Agreement.

CONTRACTOR agrees that it shall keep accurate and complete records with regard to all services as proposed hereunder. All original records related to the services provided under the terms of Agreement are the property of CITY and accordingly those records are subject to the Florida Public Records Law. CONTRACTOR shall not release any City records without written permission from City except as necessary and appropriate in the performance of the duties and responsibilities required to comply with terms of any Agreement between parties.

CONTRACTOR shall preserve and make available for inspection by CITY personnel, or by personnel duly authorized by CITY, computer date and other records related to the services provided under this Agreement. The records will be made available during normal business, hours upon twenty-four hours notice by the CITY.

Article 7 – INDEPENDENT CONTRACTOR STATUS

CONTRACTOR and its employees, volunteers and agents shall be and remain as independent contractors and not agents or employees of CITY, with respect to all of the acts and services performed by and under the terms of the Agreement. This Agreement shall not in any way be constructed to create a partnership, association or any other kind of joint undertaking or venture between the parties hereto.

Article 8 – CONFLICT OF INTEREST

CONTRACTOR covenants that no person under its employ who presently exercises any functions or responsibilities in connection with this Agreement has any personal financial interests, direct or indirect, with CITY. CONTRACTOR further covenants that, in the performance of this Agreement, no person having such conflicting interest shall be employed. Any such interests, on the part of CONTRATOR or its employees, must be disclosed in writing to CITY

CONTRACTOR is aware of the conflict of interest laws of the Municipal Code of the City of Plantation, Broward County and the State of Florida, Chapter 112, Florida Statues (2014), as amended, agrees that it will fully comply in all respects with terms of said laws

CONTRACTOR warrants that it has not employed or retained any person employed by CITY to solicit or secure this Agreement and that it has not offered to pay, paid, or agreed to pay, any public official or person employed by CITY any fee, commission, percentage, brokerage fee or gift of any kind, contingent upon of resulting from the award of this privilege.

Article 9 - ASSIGNMENT

The Agreement is not assignable or transferable in whole or in part without the prior expressed written consent of the CITY which consent cannot be unreasonably withheld.

Article 10 - COMPLIANCE WITH LAWS

CONTRACTOR shall comply with all statutes, laws, ordinances, rules, regulations and lawful orders of the United States of America, State of Florida, City of Plantation and of any other public authority, which may be applicable to this Agreement.

The validity, construction and effect of this Agreement shall be governed by the laws of the State of Florida.

Article 11- VENUE

See Article 15 - Dispute Resolution of the General Conditions.

Article 12 - PERMITS, FEES AND NOTICES

CONTRACTOR shall use its best efforts to obtain the necessary permits as soon as possible after the Notice to Proceed is issued. Any delays in obtaining permits must be brought to the attention of the CITY.

Article 13 - INSOLVENCY

In the event that either party shall become insolvent, make a general assignment for the benefit of creditors, suffers or permits the appointment of a receiver for its business or its assets or shall avail itself of, or become subject to, any proceeding under the Federal Bankruptcy Act or any other statue of any state relating to insolvency or the protection of rights of creditors, or become subject to rehabilitation, then, at the option of the other party and immediately upon written notice, this Agreement shall terminate and be of no further force effect.

Article 14 - ENTIRE AGREEMENT

This Agreement contains the entire understanding of the parties relating to the subject matter hereof superseding all prior communications between the parties whether oral or written, and this Agreement may not be altered, amended, modified or otherwise changed nor may any of the terms hereof be waived, except by a written instrument executed by both parties. The failure of a party to seek redress for violation of or to insist on strict performance of any the covenant, term, condition or election but the same shall continue and remain in full force and effect.

Article 15 - SERVERABILITY

Should any part, term or provision of this Agreement be by the courts decided to be illegal or in conflict with any law of the State, the validity of the remaining portions or provisions shall not be affected thereby.

Article 16 - NONDISCRIMINATION AND EQUAL OPPORTUNITY EMPLOYMENT

During the performance of this Agreement, CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The CONTRACTOR will take affirmative action to ensure or national original. Such action much includes, but not be limited to, the following: employment, upgrading; demotion or transfer; recruitment or recruitment advertising, layoff or termination, termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

Article 17 - CUMULATIVE REMEDIES

The remedies expressly provided in this Agreement to CITY shall not be deemed to be exclusive, but shall be cumulative and in addition to all other remedies in favor of CITY now or hereafter existing at law or in equity.

Article 18 - TERMINATION

Upon seven (7) calendar days written notice delivery by certified mail, return receipt requested, to the CONTRATOR, CITY may without cause and without prejudice to any other right or remedy, terminate the Agreement for the CITYS convenience whenever the CITY determines that such termination is in the best interest of the CITY. Where the Agreement is terminated for the convenience of the CITY the notice of termination to the CONTRATOR must state that the Agreement is terminated for the convenience of the CITY under the termination clause and the extent of termination. Upon receipt of the Notice of Termination for convenience, the CONTRACTOR shall promptly discontinue all work at the time and to the extent indicated on the Notice of Termination, terminate all outstanding subcontractors and purchase orders to the extent that they relate to the terminated portion of the Agreement and refrain from placing further orders and sub-contracts except as they may be necessary, and complete any continued portions of work.

Article 19 – CONTRACT DOCUMENTS

The Contract Documents, which comprise the entire agreement between OWNER and CONTRACTOR, are attached to this Agreement, made a part thereof and consist of the following:

A. This Agreement

B. Exhibits (if any)

C. Notice of Award

D. Supplementary Conditions, if any

E. General Conditions

F. Specifications bearing the project title

G. Drawings bearing the project title *N/A*

H. Addenda numbers [1] to [11],

I. Documentation and proposal submitted by CONTRACTOR prior to Notice of Award

J. Any Written Amendments, Change Orders, or Work Change Directives duly delivered after execution of Agreement

K. The Instructions to Respondents

L. The Insurance Coverage's and Bonds required by the Contract Documents

These are no other Contract Documents than those listed above in the Article.

Article 20 – MISCELLANEOUS

A. Terms used in this Agreement which are defined in Article 1 of the General Conditions shall have the meaning indicated in the General Conditions, or as amended in Supplementary Conditions

B. The CONTRACTOR warrants that no elected official, officer, agent or employee of the CITY has financial interest directly or indirectly in this Contract or the compensation to be paid under it, and further, that no City employee who acts in the City of Plantation as a "purchasing agent" as defined by §112.312(20), Florida Statutes, nor any elected or appointed officer of the City of Plantation, nor any spouse or child of such purchasing agent employee or elected or appointed officer, is a partner, officer director, or

proprietor of the CONTRACTOR, and further, that no such City employee purchasing agent, City elected or appointed officer, or the spouse or child of any of them, alone or in combination, has a material interest in the CONTRACTOR. Material interest means direct of indirect ownership of more than five (5) percent of the total assets or capital stock of the CONTRACTOR.

C. The CONTRACTOR and OWNER designate the following persons who shall receive notices pursuant to the Contract Documents:

For the OWNER:	The Honorable Diane Veltri Bendekovic, Mayor City of Plantation 400 NW 73rd Avenue Plantation, Florida 33317
With copy to:	[Chuck Flynn, Utilities Director] City of Plantation [400 NW 73rd Avenue] Plantation, Florida 33317
	&
With copy to	City Clerk City of Plantation 400 NW 73rd Avenue Plantation, Florida 33317
For the ENGINEER	[*N/A*] Project Manager [*N/A*] [*N/A*] [*N/A*]
For the CONTRACTOR:	[Layne Inliner, LLC] [2531 Jewtt Lane] [Sanford, Florida 32771] [Michael Cannon]

All notices and other communications required or permitted under this Agreement shall be in writing and given by:

hand delivery;

registered or certified mail, return receipt requested;

overnight courier; or

facsimile to:

or to such other address as any party may designate by notice complying with the terms of this section. Each such notice shall be deemed delivered:

on the date delivered if by personal delivery or overnight courier;

on the date upon which the return receipt is signed or delivery is refused or the notice is designated by the postal authorities as not deliverable, as the case may be, if mailed; and

on the date of transmission with confirmed answer back if by fax.

Section 21 in the event of conflict between this Agreement and terms and conditions in [ITB No. 041-14], the terms of this Agreement shall control.

IN WITNESS WHEREOF, THE CITY OF PLANTATION AND [LAYNE INLINER, LLC] have signed this AGREEMENT(S). One counterpart each has been delivered to the CITY and CONTRACTOR

Signed, sealed and delivered in the presence of:

Attest: Susan K. Slattery

Susan K. Slattery, City Clerk

Witness:

Eleanor Bowen

Eleanor Bowen

Typed Name of Witness

Witness:

Susan DiLaura

Susan DiLaura

Typed Name of Witness

Witness:

_____

CITY OF PLANTATION

By: Diane Veltri Bendekovic

Diane Veltri Bendekovic, Mayor

As to legal form:

Donald J. Lunny Jr.

City Attorney

As to Scope:

Administration Department

As to Contract Insurance Requirements:

Risk Mgmt Department

As to Procurement Requirements:

Susan Graham
Typed Name of Witness

Chuck Fly
Utilities Department

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing Agreement was acknowledged before me this 5th of August, 201[5] by Diane Veltri Bendekous, Mayor and Susan Slattery, City Clerk of the City of Plantation, Florida, who are personally known to me or who has produced _____ (type of identification) as identification and did (did not) take an oath.

WITNESS my hand and official seal this 5th day of August, 201[5].

My commission expires:
My commission number is:

CHRISTINE GUIFARRO
MY COMMISSION # FF [illegible]
EXPIRES: March 10, 2019
Bonded Thru Budget Notary Services

Christine Guifarro
Printed Name of Notary

(Notary Seal)

Signed, Sealed in the presence of:

Witness:

Jenna L. Luz
Typed Name of Witness

Witness:

MICHAEL CANNON
Typed Name of Witness

LAYNE INLINERYLE
Name of Contractor

By: _____
Signature by Authorized Agent

MARK HARRIS
Print Name of Authorized Agent

VICE PRESIDENT
Title

STATE OF FLORIDA
COUNTY OF ~~BROWARD~~ SEMINOLE

The foregoing Agreement was acknowledged before me this 27TH of JULY, 201[5] by MARK HARRIS, VICE PRESIDENT, (Title)

of LAYNE INLINER, LLC, who ~~are~~ IS personally known to me or who has produced _____ (type of identification) as identification and did (did not) take an oath.

WITNESS my hand and official seal this 27TH day of JULY, 201[5].

JANET C. DI DONATO
Notary Public - State of Florida
My Comm. Expires Sep 18, 2018
Commission # FF 137574

Printed Name of Notary

My commission expires:
My commission number is:

(Notary seal)

[53]9001-14001

CITY OF PLANTATION
RESPONDENT CONTACT INFORMATION AND BASE BID TOTAL
GRAVITY SEWER MAINS REHABILITATION-TERM CONTRACT
ALL CITY LIFT STATION BASINS

ITB NO. 041-14

NAME OF COMPANY **LAYNE INLINER, LLC**

CONTRACTOR OR REPRESENTATIVE MICHAEL CANNON

BUSINESS ADDRESS 2531 JEWETT LANE

CITY SANFORD STATE FL ZIP 32771

COMPANY PHONE 407-472-0014 COMPANY FAX 407-472-0099

EMAIL ADDRESS MIKE.CANNON@LAYNE.COM

****

GRAND TOTAL BASE BID (Words and Numbers) as shown on page 00300-2
ONE million Eight hundred sixty-three thousand three hundred eighty dollars

Dollars and ZERO Cents

$ 1,863,380.00

Cipp sewer - $ 1,316,800.00
cipp storm - $ 546,580.00

SECTION 00300 - BID SCHEDULE

CITY OF PLANTATION
GRAVITY SEWER MAINS REHABILITATION–TERM CONTRACT
ALL CITY LIFT STATION BASINS

ITB NO. 041-14

Notice To All Bidders

It is the intent of the OWNER to award this contract based on the Grand Total Base Bid for all bid items. In the event of a discrepancy between written figures and numbers, the former shall govern. In the event of latent multiplication or addition errors, the Bidder recognizes that these are clerical errors and may be corrected by the Owner.

For each payment item, Bidder agrees to furnish all labor, materials, tools and equipment necessary to properly perform the work described herein and on the project drawings. The unit prices include all mobilization and demobilization costs. A more detailed description of the Pay Items is located in Section 01025 of the Technical Specifications.

Group #1 - CIPP Mainline Pipe Lining					
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1-1	Install cured-in-place mainline liner, 8" x 6.0mm gravity mains.	30,700	LF	$ 28.50	$ 874,950.00
1-2	Additional for design change 8" x 1.5mm thickness increase.	30,700	LF	$ 0.45	$ 13,815.00
1-3	Install cured-in-place mainline liner, 10" x 6.0mm gravity mains.	1,500	LF	$ 30.00	$ 45,000.00
1-4	Additional for design change 10" x 1.5mm thickness increase.	1,500	LF	$ 0.75	$ 1,125.00
1-5	Install cured-in-place mainline liner, 12" x 6.0mm gravity mains.	1,500	LF	$ 33.00	$ 49,500.00
1-6	Additional for design change 12" x 1.5mm thickness increase.	1,500	LF	$ 1.50	$ 2,250.00
1-7	Install cured-in-place mainline liner, 15"x6.0mm gravity mains.	300	LF	$ 46.00	$ 13,800.00
1-8	Additional for design change 15" x 1.5mm thickness increase.	300	LF	$ 2.50	$ 750.00
1-9	Work in rear-yard easement (items 1 through 8)	10	EA	$ 1,300.00	$ 13,000.00
1-10	Reinstate lateral after CIPP installation (main or sectional), grout, and test lateral connection.	316	EA	$ 500.00	$ 158,000.00
1-11	Full Cut existing service lateral, insufficiently cut by others.	25	EA	$ 300.00	$ 7,500.00
1-12	Remove mainline protruding service (Hammer Tap)	159	EA	$ 50.00	$ 7,950.00
1-13	Sewer main cleaning and TV inspection (8-inch through 10-inch)	30,000	LF	$ 2.00	$ 60,000.00
1-14	Sewer main cleaning and TV inspection (12-inch through 15-inch)	4,000	LF	$ 3.00	$ 12,000.00

1-15	Work in rear-yard easement (items 10 through 14 and 16 through 18)	10	EA	$ 650.00	$ 6,500.00
1-16	Mechanical root or grease removal (8-inch through 15-inch)	16,900	LF	$ 1.00	$ 16,900.00
1-17	Mechanical Tuberculation Removal (8-inch through 15-inch)	3,350	LF	$ 7.50	$ 25,125.00
1-18	Bypass pumping (8-inch through 15-inch sewer)	159	EA	$ 50.00	$ 7,950.00
1-19	Traffic control - hourly charge for each flagger.	5	HR	$ 35.00	$ 175.00
1-20	Traffic control - daily charge for arrow board.	5	DAY	$ 100.00	$ 500.00
1-21	Traffic control - daily charge for each barricade.	5	EA	$ 2.00	$ 10.00
				Total Bid Group #1:	$ 1,316,800.00

TOTAL BASE BID FOR ALL ITEMS:

One million three hundred sixteen thousand eight hundred Dollars and ZERO Cents $ 1,316,800.00

Unbalanced bids may be rejected at the sole option of The City. This is a Unit Price contract each item must represent the items full cost to provide the service as specified in these contract documents. The quantities bid are not representative of the entire project.

The contractor is directed to quote and install the above minimum CIPP material thicknesses. The contractor is responsible for providing sealed design calculations confirming the stated thicknesses are appropriate for the intended installation. Design requirements that indicate a thicker material will be compensated at the above unit prices for additional thickness. All designs in accordance with ASTM F1216, X1.

SECTION 00300a - BID SCHEDULE

CITY OF PLANTATION
STORM SEWER MAINS REHABILITATION–TERM CONTRACT

ITB NO. 041-14

Notice To All Bidders

It is the intent of the OWNER to award this contract based on the Grand Total Base Bid for all bid items. In the event of a discrepancy between written figures and numbers, the former shall govern. In the event of latent multiplication or addition errors, the Bidder recognizes that these are clerical errors and may be corrected by the Owner.

For each payment item, Bidder agrees to furnish all labor, materials, tools and equipment necessary to properly perform the work described herein and on the project drawings. The unit prices include all mobilization and demobilization costs. A more detailed description of the Pay Items is located in the Measurement and Payment Specifications of the Addendum No. 6 attached hereto.

Group #1 - CIPP Mainline Pipe Lining – Storm Sewer Mains					
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1-1	Install cured-in-place liner, 12" x 6.0mm storm sewers.	100	LF	$ 70.00	$ 7,000.00
1-2	Additional for design change 12" x 1.5mm thickness change.	100	LF	$ 0.50	$ 50.00
1-3	Install cured-in-place liner, 15" x 7.5mm storm sewers.	2000	LF	$ 85.00	$ 170,000.00
1-4	Additional for design change 15" x 1.5mm thickness change.	2000	LF	$ 1.00	$ 2,000.00
1-5	Install cured-in-place liner, 18" x 9.0mm storm sewers.	1000	LF	$ 90.00	$ 90,000.00
1-6	Additional for design change 18" x 1.5mm thickness change.	1000	LF	$ 1.50	$ 1,500.00
1-7	Install cured-in-place liner, 21" x 12.0mm storm sewers.	800	LF	$ 100.00	$ 80,000.00
1-8	Additional for design change 21" x 1.5mm thickness change.	800	LF	$ 2.00	$ 1,600.00
1-9	Install cured-in-place liner, 48" x 18.0mm storm sewers.	100	LF	$ 300.00	$ 30,000.00
1-10	Additional for design change 48" x 1.5mm thickness change.	100	LF	$ 10.00	$ 1,000.00
1-11	Install cured-in-place liner, 18" x 11" Arch x 12mm storm sewers.	275	LF	$ 85.00	$ 23,375.00
1-12	Additional for design change 18" x 11" Arch x 1.5mm thickness change.	275	LF	$ 1.00	$ 275.00
1-13	Install cured-in-place liner, 22" X13" Arch X 12mm storm sewers.	525	LF	$ 90.00	$ 47,250.00

1-14	Additional for design change 22" X 13" Arch X 1.5mm thickness change.	525	LF	$ 1.50	$ 787.50
1-15	Work in rear-yard easements (items 1-1 through 1-14).	10	EA	$ 1,000.00	$ 10,000.00
1-16	Storm Sewer cleaning and TV inspection 12" through 15".	2100	LF	$ 3.00	$ 6,300.00
1-17	Storm Sewer cleaning and TV inspection 18" through 24".	1800	LF	$ 3.50	$ 6,300.00
1-18	Storm Sewer cleaning and TV inspection 48" through 54".	100	LF	$ 10.00	$ 1,000.00
1-19	Storm Sewer cleaning and TV inspection 18" X 11" Arch.	275	LF	$ 3.00	$ 825.00
1-20	Storm Sewer cleaning and TV inspection 22" X 13" Arch.	525	LF	$ 3.50	$ 1,837.50
1-21	Mechanical Root Removal (12" and smaller).	100	LF	$ 0.50	$ 1,050.00
1-22	Mechanical Root Removal (15" through 24").	3000	LF	$ 0.75	$ 1,350.00
1-23	Mechanical Root Removal (48" through 54").	1000	LF	$ 1.00	$ 100.00
1-24	Mechanical Root Removal 18" X 11" Arch.	275	LF	$ 1.00	$ 275.00
1-25	Mechanical Root Removal 22" X 13" Arch.	525	LF	$ 1.00	$ 525.00
1-26	Work in rear-yard easements (items 1-16 through 1-25).	10	EA	$ 600.00	$ 6,000.00
1-27	Traffic control hourly charge for each flagman.	200	HR	$ 25.50	$ 5,100.00
1-28	Traffic control - hourly charge for arrow board.	30	DAY	$ 35.00	$ 1,050.00
1-29	Traffic control - daily charge for each barricade.	30	DAY	$ 1.00	$ 30.00
1-30	Contingency	1	LS	$50,000.00	$50,000.00
				Total Bid Group #1:	$ 546,580.00

TOTAL BASE BID FOR ALL ITEMS:

Five hundred forty-six thousand five hundred eighty Dollars and Zero Cents $ 546,580.00

Unbalanced bids may be rejected at the sole option of The City. This is a Unit Price contract each item must represent the items full cost to provide the service as specified in these contract documents. The quantities bid are not representative of the entire project.

The contractor is directed to quote and install the above minimum CIPP material thicknesses. The contractor is responsible for providing sealed design calculations confirming the stated thicknesses are appropriate for the intended installation.

Design requirements that indicate a thicker material will be compensated at the above unit prices for additional thickness. All designs in accordance with ASTM F1216, X1.

City of Plantation
City Council Chambers

Subject:

Request for authorization to execute/exercise the first of three one (1) year renewal options for "Gravity Sewer Lateral Rehabilitation" Term Contract ITB No. 042-14 with LMK Pipe Renewal, LLC. expiring of August 6, 2018.

Item Description:

The current and approved City of Plantation (contract) ITB No. 042-14 for Gravity Sewer Lateral Rehabilitation is set to expire August 6, 2017.

The Utilities Department currently uses LMK Pipe Renewal, LLC to rehabilitate gravity sewer laterals to prevent and correct the infow and and infiltration of ground water into the collection system through damaged gravity sewer laterals.

The City of Plantation ITB No. 042-14 calls for three (3), one- (-1) year extensions. The Utilities Department has determined LMK Pipe Renewal, LLC. has performed in accordance with the requirements of the contract and wishes to exercise/execute the first of three one (1) year allowable renewal options. Attached with this memo you will find LMK Pipe Renewal, LLC letter to renew this contract with same terms, conditions, and pricing as set forth in ITB No. 042-14.

This information is provided for you authorization to execute/exercise the first one-year extension for Gravity Sewer Lateral Rehabilitation-Term Contract, ITB No. 042-14 expiring August 6, 2018

Funding:

405-0000-169-9527

Amount:

See Attached Bid Schedule Form

Finance Director/Budget Manager Recommendation:

In FY2017 the Utilities Department budgeted $1,230,000 in the Series 2013 Utilities System Revenue Note Construcion Fund (405) for Neighborhood Sewer Main Rehab projects

Prepared By:

Charles Spencer

ATTACHMENTS:

Description	Upload Date	Type
LMK Pipe Renewal Renewal Letter	4/19/2017	Backup Material
Executed Agreement with Pricing	4/19/2017	Backup Material

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

FINANCIAL SERVICES
Anna C. Otiniano
Director

Plantation
the grass is greener

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Jerry Fadgen
Mark Hyatt
Ron Jacobs

April 12, 2017

LMK Pipe Renewal, LLC.
John Rinehart
1131 NW 55th Street
Fort Lauderdale, Florida 33309

Email: John@LMKPIPE.com

Dear Mr. Rinehart:

Contract No. 042-14 for the City's Gravity Sewer Lateral Rehabilitation- Term Contract is set to expire August 6th, 2017 and has a provision for renewal under Article 3- Contract Time of the Agreement for three (3) additional (1) one year renewal periods. This would be the 1st of three (3) allowable renewal options.

Note: The purpose of this letter is to determine your desire to this renewal provision. This inquiry does not constitute an extension or renewal of the contract.

Someone with authorization to sign for your company must place their signature where indicated. THE FORM SIGNOR MUST BE AN OFFICER OF THE COMPANY OR YOU MUST PROVIDE A DOCUMENT FROM AN OFFICER OF THE COMPANY THAT AUTHORIZES THOSE LISTED TO SIGN ON THEIR BEHALF. Only the signature of as authorized officer or someone authorized to bind your company will be accepted.

Your response must be received no later than 4:00 p.m. 4/30/2017. Fax or email response will be accepted, (954) 797-2649 or Espencer@plantation.org. Failure to respond will be deemed as evidence that your firm is no longer interested in requesting its option to renew this contract.

Your cooperation in this matter is appreciated. For further information please contact Procurement Administrator, Charles Spencer at 954-797-2647 or email espencer@plantation.org.

✓ YES: We offer to renew this agreement per the original terms, conditions, specifications and pricing for one (1) year with pricing in accordance with ITB No. 042-14.

Authorized Signature — Title: Vice President

Print Name: JOHN F. RINEHART — Date: 4-13-2017

____NO: We do not wish to renew this contract for the following reason:

_____

_____

Authorized Signature — Title

Attorney's Certificate
for
LMK Pipe Renewal, LLC

1. The undersigned attorney, William R. Leonard, is a member in good standing of The Florida Bar since 1977 the registered agent and records custodian for LMK Pipe Renewal, LLC, a Florida limited liability company.
2. The current officers are Larry Kiest, Jr., President and John Rinehart, Vice President.
3. John Rinehart has the express authority to negotiate, enter into, and execute contracts, on behalf of LMK Pipe Renewal, LLC, a Florida limited liability company
4. Executed 18 December 2015.

Attorney for LMK Pipe Renewal, LLC
William R Leonard PA
4944 SW 10th Lane
Gainesville, FL 32607-3873
Leonardlaw@cox.net
V: 954.232.0430 Fax: 954.337.2853
/s/ William R. Leonard
William R. Leonard, Fl Bar # 230200

C:\Archive.04.2015\Transaction\LMK_Pipe\LLC Atty Certificate 2015.wpd

AGREEMENT

This Agreement is dated as of the [31] day of [July], in the year 201[5], by and between:

CITY OF PLANTATION, FLORIDA
a municipal corporation
400 NW 73rd Ave
Plantation, Florida 33317
(hereinafter referred to as City)

AND

[LMK Pipe Renewal Services, LLC]
[1131 NW 55th Street]
[Fort Lauderdale, Florida 33309]
(Hereinafter referred to as Contractor)

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1 – WORK

The CONTRACTOR shall complete all Work as specified or indicated in the Contract documents for the project entitled:

City of Plantation
[Gravity Sewer Laterals Rehabilitation-Term Contract]
[RFSP No. 042-14]

and generally described as follows but not limited to: [Furnish and install cured-in-place pipe lining for sewer laterals along with, clean-out installation, and associated work such as cleaning, tv, lateral reinstatement, bypass pumping, and traffic control] as further defined in the Specification/Scope of Services

Article 2 – ENGINEER

The OWNER has engaged [N/A] who is hereafter called ENGINEER and who will assume all duties and responsibilities and will have the rights and authority assigned to ENGINEER in the Contracts Documents in connection with completion of the work in accordance with the Contract Documents. [N/A]

Article 3 – CONTRACT TIME

The initial contract period shall be for [two (2) years], commencing [August 7, 2015]. In addition, the City reserves the right to renew the contract for [three (3) additional one (1) year renewal periods], under the same terms, conditions and specifications contingent upon Budget approval.

Or If a Construction Contract (N/A)

The work will be substantially completed within [N/A] calendar days and finally completed within [N/A] calendar days after the date when the contract time commences (Notice to Proceed) to run as provided in the Contract Documents. Paragraph 19 of the Instructions to Respondents contains Liquidated Damages provision.

In the event the services are scheduled to end either by contract expiration or by termination by the City of Plantation (at the City's discretion), the contractor shall continue the services, if requested by the City, until new services can be completely operational. At no time shall this transitional period extend more than one hundred eighty (180) calendar days beyond the expiration date of the existing contract. The contractor will be reimbursed for this service at the rate in effect when this transitional period clause is invoked by the City.

Article 4 – COMPENSATION/PAYMENTS

The OWNER shall pay to the CONTRACTOR for the performance of the Work $[378,187.50 (estimated over the first initial contract period.) All payments for services shall be in accordance with unit cots as designated on Contractor's response to ITB No. 042-14]. For portions of the Contract that are in the accepted proposal as being unit priced, the Contract Sum will be based upon the amounts determined for the total number of each of the units of work completed at the unit price stated. The City reserves the right to increase and decrease quantities, and the final payment shall be made for the actual number of units incorporated in or made necessary by the work covered by this contract.

The Contractor will bill the City at the completion of each job for services rendered of the work defined herein at the rates submitted in their proposal documents now made apart of this contract. Submit invoices to:

City of Plantation
Attn: [Charles Spencer, Utilities Budget and Purchasing Manager]
[400 NW 73 Avenue]
Plantation, FL [33317]

Invoices received from the Contractor pursuant to this Contract will be reviewed and approved by the City's representative, indicating that services have been rendered in conformity with the Contract and then will be sent to the Financial Services Department for

payment. Invoices will generally be paid within thirty (30) days following the City representative's approval.

Final Invoice: In order for both parties herein to close their books and records, the Contractor will clearly state "final invoice" on the Contractor's final/last billing to the City. This certifies that all services have been properly performed and all charges and costs have been invoiced to the City. Since this account will thereupon be closed, any and other further charges, if not properly included on this final invoice, or which are in excess of the not to exceed amount, are waived by the Contractor.

Progress payments and retainage and final payment provisions are provided for in the Contract Documents. Generally, these documents call for monthly progress payments for approved Work completed less 10% retainage. The balance of the final contract sum shall be due to the CONTRACTOR from the within 21 days after Final Completion. The Florida Construction Contract Prompt Payment Law shall govern payments made pursuant to this Agreement. Any conflict shall be resolved consistent with the law.

Article 5 – CONTRACTOR'S REPRESENTATIONS

In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations, in addition to the representations made in the contract documents as referenced in Article 19.

A. CONTRACTOR has familiarized themselves with the nature and extent of the Contract Documents, Work, locality and with all location conditions and Federal, State and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the Work.

B. CONTRACTOR has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the Work which were relied upon by ENGINEER in the preparation of the Drawings and Specifications and which have been identified in the Contract Documents.

C. CONTRACTOR has made or caused to be made examinations, investigations, tests and studies of such reports and related data in addition to those reference to in Article 5 of the General Conditions as amended by Supplementary Conditions, if any, as they deem necessary for the performance of the Work at the Contract Price, within the Contract Time and in accordance with other terms and conditions of the Contract Documents; and no additional examinations, investigations, test, reports or similar data are or will be required by CONTRACTOR for such purposes.

D. CONTRACTOR has correlated the results of all such observations, examinations investigations, tests, reports and data with terms and conditions of the Contract Documents.

E. CONTRACTOR has given ENGINEER written notice of all conflicts, errors or discrepancies that the CONTRACTOR has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to the CONTRACTOR

Article 6 – RECORDS AND AUDIT

City reserves the right to audit the records of CONTRATOR relating to this Agreement any time during the performance and term of the Agreement and for a period of three (3) years after completion and acceptance by CITY. If required by CITY, CONTRACTOR shall agree to submit to an audit by an independent certified public and review the records of CONTRACTOR at any and all times during normal business hours during the term of this Agreement.

CONTRACTOR agrees that it shall keep accurate and complete records with regard to all services as proposed hereunder. All original records related to the services provided under the terms of Agreement are the property of CITY and accordingly those records are subject to the Florida Public Records Law. CONTRACTOR shall not release any City records without written permission from City except as necessary and appropriate in the performance of the duties and responsibilities required to comply with terms of any Agreement between parties.

CONTRACTOR shall preserve and make available for inspection by CITY personnel, or by personnel duly authorized by CITY, computer date and other records related to the services provided under this Agreement. The records will be made available during normal business, hours upon twenty-four hours notice by the CITY.

Article 7 – INDEPENDENT CONTRACTOR STATUS

CONTRACTOR and its employees, volunteers and agents shall be and remain as independent contractors and not agents or employees of CITY, with respect to all of the acts and services performed by and under the terms of the Agreement. This Agreement shall not in any way be constructed to create a partnership, association or any other kind of joint undertaking or venture between the parties hereto.

Article 8 – CONFLICT OF INTEREST

CONTRACTOR covenants that no person under its employ who presently exercises any functions or responsibilities in connection with this Agreement has any personal financial interests, direct or indirect, with CITY. CONTRACTOR further covenants that, in the performance of this Agreement, no person having such conflicting interest shall be employed. Any such interests, on the part of CONTRATOR or its employees, must be disclosed in writing to CITY.

CONTRACTOR is aware of the conflict of interest laws of the Municipal Code of the City of Plantation, Broward County and the State of Florida, Chapter 112, Florida Statues (2014), as amended, agrees that it will fully comply in all respects with terms of said laws

CONTRACTOR warrants that it has not employed or retained any person employed by CITY to solicit or secure this Agreement and that it has not offered to pay, paid, or agreed to pay, any public official or person employed by CITY any fee, commission, percentage, brokerage fee or gift of any kind, contingent upon of resulting from the award of this privilege.

Article 9 - ASSIGNMENT

The Agreement is not assignable or transferable in whole or in part without the prior expressed written consent of the CITY which consent cannot be unreasonably withheld.

Article 10 - COMPLIANCE WITH LAWS

CONTRACTOR shall comply with all statutes, laws, ordinances, rules, regulations and lawful orders of the United States of America, State of Florida, City of Plantation and of any other public authority, which may be applicable to this Agreement.

The validity, construction and effect of this Agreement shall be governed by the laws of the State of Florida.

Article 11- VENUE

See Article 15 - Dispute Resolution of the General Conditions.

Article 12 - PERMITS, FEES AND NOTICES

CONTRACTOR shall use its best efforts to obtain the necessary permits as soon as possible after the Notice to Proceed is issued. Any delays in obtaining permits must be brought to the attention of the CITY.

Article 13 - INSOLVENCY

In the event that either party shall become insolvent, make a general assignment for the benefit of creditors, suffers or permits the appointment of a receiver for its business or its assets or shall avail itself of, or become subject to, any proceeding under the Federal Bankruptcy Act or any other statue of any state relating to insolvency or the protection of rights of creditors, or become subject to rehabilitation, then, at the option of the other party and immediately upon written notice, this Agreement shall terminate and be of no further force effect.

Article 14 - ENTIRE AGREEMENT

This Agreement contains the entire understanding of the parties relating to the subject matter hereof superseding all prior communications between the parties whether oral or written, and this Agreement may not be altered, amended, modified or otherwise changed nor may any of the terms hereof be waived, except by a written instrument executed by both parties. The failure of a party to seek redress for violation of or to insist on strict performance of any the covenant, term, condition or election but the same shall continue and remain in full force and effect.

Article 15 - SERVERABILITY

Should any part, term or provision of this Agreement be by the courts decided to be illegal or in conflict with any law of the State, the validity of the remaining portions or provisions shall not be affected thereby.

Article 16 - NONDISCRIMINATION AND EQUAL OPPORTUNITY EMPLOYMENT

During the performance of this Agreement, CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The CONTRACTOR will take affirmative action to ensure or national original. Such action much includes, but not be limited to, the following: employment, upgrading; demotion or transfer; recruitment or recruitment advertising, layoff or termination, termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

Article 17 - CUMULATIVE REMEDIES

The remedies expressly provided in this Agreement to CITY shall not be deemed to be exclusive, but shall be cumulative and in addition to all other remedies in favor of CITY now or hereafter existing at law or in equity.

Article 18 - TERMINATION

Upon seven (7) calendar days written notice delivery by certified mail, return receipt requested, to the CONTRATOR, CITY may without cause and without prejudice to any other right or remedy, terminate the Agreement for the CITYS convenience whenever the CITY determines that such termination is in the best interest of the CITY. Where the Agreement is terminated for the convenience of the CITY the notice of termination to the CONTRATOR must state that the Agreement is terminated for the convenience of the CITY under the termination clause and the extent of termination. Upon receipt of the Notice of Termination for convenience, the CONTRACTOR shall promptly discontinue all work at the time and to the extent indicated on the Notice of Termination, terminate all outstanding subcontractors and purchase orders to the extent that they relate to the terminated portion of the Agreement and refrain from placing further orders and sub-contracts except as they may be necessary, and complete any continued portions of work.

Article 19 – CONTRACT DOCUMENTS

The Contract Documents, which comprise the entire agreement between OWNER and CONTRACTOR, are attached to this Agreement, made a part thereof and consist of the following:

A. This Agreement

B. Exhibits (if any)

C. Notice of Award

D. Supplementary Conditions, if any

E. General Conditions

F. Specifications bearing the project title

G. Drawings bearing the project title None this project

H. Addenda numbers [1] to [7],

I. Documentation and proposal submitted by CONTRACTOR prior to Notice of Award

J. Any Written Amendments, Change Orders, or Work Change Directives duly delivered after execution of Agreement

K. The Instructions to Respondents

L. The Insurance Coverage's and Bonds required by the Contract Documents

These are no other Contract Documents than those listed above in the Article.

Article 20 – MISCELLANEOUS

A. Terms used in this Agreement which are defined in Article 1 of the General Conditions shall have the meaning indicated in the General Conditions, or as amended in Supplementary Conditions

B. The CONTRACTOR warrants that no elected official, officer, agent or employee of the CITY has financial interest directly or indirectly in this Contract or the compensation to be paid under it, and further, that no City employee who acts in the City of Plantation as a "purchasing agent" as defined by §112.312(20), Florida Statutes, nor any elected or appointed officer of the City of Plantation, nor any spouse or child of such purchasing agent employee or elected or appointed officer, is a partner, officer director, or

proprietor of the CONTRACTOR, and further, that no such City employee purchasing agent, City elected or appointed officer, or the spouse or child of any of them, alone or in combination, has a material interest in the CONTRACTOR. Material interest means direct of indirect ownership of more than five (5) percent of the total assets or capital stock of the CONTRACTOR.

C. The CONTRACTOR and OWNER designate the following persons who shall receive notices pursuant to the Contract Documents:

For the OWNER:	The Honorable Diane Veltri Bendekovic, Mayor City of Plantation 400 NW 73rd Avenue Plantation, Florida 33317
With copy to:	[Chuck Flynn, Utilities Director] City of Plantation [400 NW 73 Avenue] Plantation, Florida 33317
	&
With copy to	City Clerk City of Plantation 400 NW 73rd Avenue Plantation, Florida 33317
For the ENGINEER	[N/A] Project Manager [N/A] [N/A] [N/A]
For the CONTRACTOR:	[LMK Pipe Renewal, LLC] [1131 NW 55th Street] [Fort Lauderdale, Florida 33309] [John F. Rinehart]

All notices and other communications required or permitted under this Agreement shall be in writing and given by:

hand delivery;

registered or certified mail, return receipt requested;

overnight courier; or

facsimile to:

or to such other address as any party may designate by notice complying with the terms of this section. Each such notice shall be deemed delivered:

on the date delivered if by personal delivery or overnight courier;

on the date upon which the return receipt is signed or delivery is refused or the notice is designated by the postal authorities as not deliverable, as the case may be, if mailed; and

on the date of transmission with confirmed answer back if by fax.

Section 21 in the event of conflict between this Agreement and terms and conditions in [ITB No. 042-14], the terms of this Agreement shall control.

IN WITNESS WHEREOF, THE CITY OF PLANTATION AND [LMK PIPE RENEWAL, LLC.] have signed this AGREEMENT(S). One counterpart each has been delivered to the CITY and CONTRACTOR

Signed, sealed and delivered in the presence of:

Attest: Susan K Slattery

Susan K. Slattery, City Clerk

Witness:

Karen Walsh

Typed Name of Witness

Witness:

Edward C. Spencer Jr

Typed Name of Witness

Witness:

CITY OF PLANTATION

By: Diane Veltri Bendekovic

Diane Veltri Bendekovic, Mayor

As to legal form:

Donald J. Lunny Jr.
City Attorney

As to Scope:

Administration Department

As to Contract Insurance Requirements:

Risk Management Department

As to Procurement Requirements:

Susan Graham
Typed Name of Witness

Chuck Flynn
Utilities Department

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing Agreement was acknowledged before me this 13th of August, 201[5] by Diane Veltri Bendekovic, Mayor and Susan Slattery, City Clerk of the City of Plantation, Florida, who are personally known to me or who has produced _____ (type of identification) as identification and did (did not) take an oath.

WITNESS my hand and official seal this 13th day of August, 201[5].

My commission expires:
My commission number is:

CHRISTINE GUIFARRO
MY COMMISSION # FF 200080
EXPIRES: March 10, 2019
Bonded Thru Budget Notary Services

Christine Guifarro
Printed Name of Notary

(Notary Seal)

Signed, Sealed in the presence of:

Witness:

Mark Gulyas
Typed Name of Witness

Witness:

William Rivera
Typed Name of Witness

LMK PEPE REHEWA LLC
Name of Contractor

By: _____
Signature by Authorized Agent

JOHN F. REINHART
Print Name of Authorized Agent

VICE PRESIDENT
Title

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing Agreement was acknowledged before me this 31st of July, 201[5] by JOHN F. REINHART, VICE PRESIDENT, (Title)

of LMK PIPE REMOVAL LLC, who are personally known to me or who has produced _____ (type of identification) as identification and did (did not) take an oath.

WITNESS my hand and official seal this 31st day of Dec, 201[5].

Maria E Suarez

Maria E Suarez
Printed Name of Notary

My commission expires: April 21, 2018
My commission number is: FF097773 (Notary seal)

MARIA E. SUAREZ
MY COMMISSION # FF 097773
EXPIRES: April 21, 2018
Bonded Thru Notary Public Underwriters

[53]9001-14001

Revised 9/2014

SECTION 00300 - BID SCHEDULE

CITY OF PLANTATION
GRAVITY SEWER LATERALS REHABILITATION-TERM CONTRACT
ALL CITY LIFT STATION BASINS

ITB NO.042-14

Notice To All Bidders

It is the intent of the OWNER to award this contract based on the Grand Total Base Bid for all bid items. In the event of a discrepancy between written figures and numbers, the former shall govern. In the event of latent multiplication or addition errors, the Bidder recognizes that these are clerical errors and may be corrected by the Owner.

For each payment item, Bidder agrees to furnish all labor, materials, tools and equipment necessary to properly perform the work described herein and on the project drawings. The unit prices include all mobilization and demobilization costs. A more detailed description of the Pay Items is located in Section 01025 of the Technical Specifications.

Group#3 - CIPP Lateral Connection and Lateral Pipe Lining					
ITEM NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
3-1	CIP Lining, 8 to 15-inch full circle main connection 4" or 6" x 4.5mm lateral piping, minimum 10 LF of lateral (all depths).	50	EA	$2,875.00	$143,750.00
3-2	CIP Lining, stack pipe, double lateral, 8 to 15-inch main 4 to 6-inch stack, full circle main connection 4", 6"or 8" x 4.5mm lateral piping, minimum 10 LF of lateral each way (all depths).	5	EA	$4,975.00	$24,875.00
3-3	CIP Lining, Siamese, double lateral, 8 to 15-inch main 4 to 6-inch Siamese laterals, full circle main connection 4", 6"or 8" x 4.5mm lateral piping, minimum 10 LF of lateral each way (all depths).	5	EA	$4,975.00	$24,875.00
3-4	Lateral Liner 4" & 6" x 4.5mm pipe, beyond 10 linear feet (all depths).	900	LF	$ 33.00	$29,700.00
3-5	CIP Lining, 8 to 12-inch full circle main drop connection, 6" thru 10" x 4.5mm drop pipe, up to 10 LF of drop (all depths).	5	EA	$1,725.00	$8,625.00
3-6	CIP Lining, 4" & 6" x 4.5mm laterals, all depths (includes 10 feet of lateral)	10	EA	$1,725.00	$17,250.00
3-7	CIP Lining 4" & 6" x 4.5mm pipe, beyond 10 linear feet all depths.	200	LF	$ 33.00	$ 6,600.00
3-8	Transitional Liner 4" to 6" x 4.5mm transition (all depths). Transitions may occur in stackpipe , straight laterals or in Siamese configurations.	20	EA	$ 25.00	$ 500.00
3-9	Work in rear-yard easement (items 1 through 8)	10	EA	$ 300.00	$ 3,000.00
3-10	Sewer main cleaning and TV inspection (8-inch through 10-inch)	5,000	LF	$ 1.25	$ 6,250.00
3-11	Sewer main cleaning and TV inspection (12-inch through 15-inch)	5,000	LF	$ 2.15	$ 10,750.00
3-12	Sewer lateral TV inspection from main (up to 30 feet)	100	EA	$ 165.00	$ 16,500.00
3-13	Sewer lateral TV inspection from main (beyond 30 feet	1,000	LF	$ .25	$ 250.00

3-14	Work in rear-yard easement (items 10 through 13 and 15 through 20)	10	EA	$ 300.00	$ 3,000.00
3-15	**Cleanout installation in grass area,** 3-inch to 6-inch gravity pipe, depths up to 5-feet. (includes restoration)	40	EA	$ 850.00	$ 34,000.00
3-16	**Cleanout installation in asphalt area,** 3-inch to 6-inch gravity pipe, depths up to 5-feet. (includes restoration)	10	EA	$ 975.00	$ 9,750.00
3-17	**Cleanout installation in concrete area,** 3-inch to 6-inch gravity pipe, depths up to 5-feet. (includes restoration)	5	EA	$ 1,100.00	$ 5,500.00
3-18	**Cleanout installation in pavers,** 3-inch to 6-inch gravity pipe, depths up to 5-feet. (includes restoration)	5	EA	$ 975.00	$ 4,875.00
3-19	**Cleanout installation** beyond 5 feet in depth.	50	VF	$ 1.00	$ 50.00
3-20	**Bypass** pumping (6-inch to 15-inch sewer)	10	EA	$ 250.00	$ 2,500.00
3-21	**Double wye**	250	EA	$ 75.00	$ 18,750.00
3-22	**Traffic control** - hourly charge for each flagger.	250	HR	$ 25.00	$ 6,250.00
3-23	**Traffic control** - daily charge for arrow board.	10	DAY	$ 40.00	$ 400.00
3-24	**Traffic control** - daily charge for each barricade.	250	EA	$ .75	$ 187.50
				Total Bid Group #3:	$ 378,187.50

TOTAL BASE BID FOR ALL ITEMS IN BASIN 3:

Three Hundred Seventy Eight Thousand One Hundred Eighty Seven Dollars and 50 Cents $378,187.50

Unbalanced bids may be rejected at the sole option of The City. This is a Unit Price contract each item must represent the items full cost to provide the service as specified in these contract documents. The quantities bid are not representative of the entire project.

The contractor is directed to quote and install the above minimum CIPP material thicknesses. The contractor is responsible for providing sealed design calculations confirming the stated thicknesses are appropriate for the intended installation. Design requirements that indicate a thicker material will be compensated at the above unit prices for additional thickness. All designs in accordance with ASTM F1216, X1.

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Request for approval and authorization to standardize the City's sports field lighting equipment to a single manufacturer, Musco Lighting LLC (Musco)

Item Description:

The City of Plantation Parks and Recreation Department operates 10 parks throughout the City which provide 91 sports fields or courts equipped with lighting systems for public use during evening hours. To date, 84 of the 91 sports fields or courts are served by sports field lighting equipment supplied through a single lighting manufacturer, Musco Lighting LLC (Musco).

The Parks & Rec and Engineering Departments are requesting to standardize the City's sports field equipment to a single manufacturer, Musco Lighting LLC (Musco). The Departments have utilized the most recent solicitation and award conducted by Sarasota County to further aid in the reasonable justification for the standardization of the City's sports field lighting equipment. (additional information/justification can be found attached to this memo).

Sarasota County publicly advertised their solicitation and established a Sarasota County "Outdoor Sports Lighting Standardization Committee". Short listed firms were invited to give oral presentations before an award was provided to Musco Lighting, LLC. The Procurement Division has reviewed the Sarasota County solicitation and supports the method in which it was advertised and awarded.

Approval of this standardization of Sport Field Lighting Equipment, will allow for the following;

- Competitive procurement exemption when the City desires to procure "Musco" Sport Field Lighting equipment only from Musco Lighting, LLC (manufacturer);

- When the City solicits a bid/proposal for the purchase and installation of Sport Field Lighting Equipment. "Musco" shall be specified within the solicitation as the only acceptable Sports Field Lighting manufacturer.

The City will still be required to adhere to the monetary thresholds and approval process, as outlined in section 2-226(d) of the City Code.

This information is provided for City Council approval and authorization to standardize the City's sports field lighting equipment to a single manufacturer, Musco Lighting LLC (Musco).

Funding:

N/A

Amount:

N/A

Finance Director/Budget Manager Recommendation:

No financial impact at this moment.

Prepared By:

Charles Spencer

ATTACHMENTS:

Description	Upload Date	Type
Departmental Memo	4/19/2017	Backup Material
Sarasota County Solicitation and Award Info	4/20/2017	Backup Material

Plantation
the grass is greener

CITY OF PLANTATION
ENGINEERING DEPARTMENT
INTEROFFICE MEMORANDUM NO. 2017-013

DATE: April 19, 2017
TO: Charles Spencer, Procurement Administrator
FROM: Brett Butler, City Engineer
SUBJECT: Standardization of Sports Field Lighting
COPY: Ernest Burkeen, P&R Director
Horace McHughe, CAO

The City of Plantation P&R Department operates 10 parks throughout the City which provide 91 sports fields or courts equipped with lighting systems for public use during evening hours. To date, 84 of the 91 sports fields or courts are served by sports field lighting equipment supplied through a single lighting manufacturer, Musco Lighting LLC (Musco).

In November of this past year, the residents of Plantation voted in support of an ad valorem general obligation bond to fund a number of large capital project needs throughout the City. One such project involves the rehabilitation of existing sports field lighting systems serving 24 sports fields or courts located at Plantation Central Park and Sunset Park. Lighting rehabilitation is necessary for several reasons including, but not limited to, compliance with current sports field lighting requirements, aged equipment, and annual operation and maintenance costs.

The Engineering Department, tasked with administering all bond projects, proceeded to work with the P&R Department to develop a scope of work for sports field lighting rehabilitation. During this process, the Engineering Department recognized the P&R Department's O&M program goals for sports field lighting equipment. Upon examination of the O&M program, the Engineering Department observed that there likely would be additional capital costs and undesirable compromises to existing and planned changes to the O&M Program if lighting equipment from multiple manufacturers were used.

Based upon the foregoing observations, the Engineering Department approached the project from the perspective of standardizing sports field lighting throughout the City. After some research, the Engineering Department learned that standardization is a growing practice and identified a sports field lighting standardization procurement recently performed by Sarasota County. Procurement documents obtained from the Sarasota County P&R Department show that three (3) lighting manufacturers submitted required documentation in response to the procurement solicitation. A Sarasota County Outdoor Sports Lighting Standardization Committee evaluated the submittals and shortlisted two (2) manufacturers to make oral presentations before the Committee. On August 31, 2016, Sarasota County issued a Notice of Action selecting Musco Lighting LLC for outdoor sports field product line standardization. All Sarasota County procurement documents are included on the attached CD for your review.

P&R and Engineering Department staff carefully examined the procurement documents against current and future O&M Program needs and concluded sports field lighting standardization would be in the best interest of the City of Plantation. Seeing that Sarasota County selected Musco Lighting LLC, the Engineering and P&R Departments request your consideration to support an exemption from formal procurement pursuant to Section 2-226(g)(14) of the City Code of Ordinances and to prepare an agenda item for City Council consideration on April 26, 2017.

SARASOTA COUNTY GOVERNMENT
PROCUREMENT
NOTICE OF ACTION

Request for Information (RFI) Solicitation No. 163269CB

TITLE: Standardization of Outdoor Sports Lighting

SUBMITTAL DEADLINE: June 10, 2016

SUBJECT: NOTICE OF RECOMMENDED AWARD

The following firms submitted information in response to the above mentioned solicitation;

Musco Lighting LLC, Oskaloosa, IA
Qualite Sports Lighting LLC, Hillsdale, MI
Techline Sports Lighting, Austin TX

The Sarasota County Outdoor Sports Lighting Standardization Committee reviewed the information on June 24, and July 11, 2016 and invited the following two (2) firms to give Oral Presentations on August 24, 2016;

Musco Lighting LLC, Oskaloosa, IA
Qualite Sports Lighting LLC, Hillsdale, MI

After oral presentations were heard, and all information considered, the Standardization Committee selected Musco Lighting LLC, Oskaloosa, IA for product line standardization.

By: _____ Date: 8-31-2016
Edward F. Coyman, Jr. Procurement Official

By: CHARLYN BRIANDI _____ _____ Date: 8-31-2016
Procurement Analyst (Print Name) Procurement Analyst Signature

By: Tricia Wisner _____ _____ Date: 8/31/16
Project Manager Name (Print Name) Project Manager Signature

Sarasota County

#5

STANDARDIZATION REQUEST FORM

Complete this form to request standardization of a product for use by Sarasota County. Requests that are approved by the Procurement Official will be advertised by Procurement and responses will be evaluated by a Standardization Review Committee. **All fields must be completed for your request to be considered.**

A. REQUESTOR INFORMATION	
Requestor: Carolyn Brown	Phone: 9418617474
Department: Parks, Recreation and Natural Resources	Division: Athletics
Other Departments utilizing the same or similar products: None	
B. PRODUCT INFORMATION	
Product description (include manufacturers/brands if appropriate): Outdoor athletic sports lighting (Ex: soccer fields, volleyball courts, baseball/softball fields, etc.). Includes all necessary components to manage and illuminate playing and spectator areas including controls, structures, luminaries, and electrical infrastructure.	
Describe how the product is currently used in County operations: PRNR currently owns and/or operates 121 lighted, outdoor athletic areas and fields/courts. A variety of manufacturers, methods of installation and varying degrees of technology are currently utilized in the maintenance and operation of the lighted areas.	
Current vendor(s) (if applicable): N/A. Depends on bid selection.	
# of other manufacturer/brands currently in use by the County: List Brands: Qualite, General Electric, Musco, Hubbell, SES, and vendors no longer in business.	
Estimated quantity used per fiscal year (all manufacturers/brands): Unit of Measure: Varies depending upon planned CIP program and maintenance needs.	
Estimated lifecycle of product: up to 25 years	
Estimated acquisition cost per fiscal year: $ $1,000,000.00	
Estimated maintenance/repair costs per fisal year: $ $45,000.00	

Sarasota County

STANDARDIZATION REQUEST FORM

C. JUSTIFICATION

Justification for Standardizing:

To streamline operations to allow for greater accountability, information sharing, decrease downtime, increased customer service and overall decrease in operating cost. With the growth of technology, a single source will permit improved management and maintenance through automated monitoring/alert system. PRNR centrally manages the reservations and scheduling of facilities. Manufacturer must integrate with existing recreation reservation software system, RECTRAC by Vermont Systems Inc.

A key benefit of standardization is reduced maintenance and parts inventory costs. However, there are more opportunities in other areas, as follows:

Reduced staff training costs:
As sports lighting systems become more sophisticated, the need for training increases. Even with a few models, as long as staff are dealing with a single vendor, chances are good that many of the various component models will utilize the same basic technology. Also, fewer systems mean less unproductive time for staff.

Reduced costs for equipment/inventory:
Fewer different systems will likely reduce our hardware and/or software purchasing needs. Additionally, reduced inventory, repair & substitution parts kept on hand for repairs can be significantly reduced thereby reducing cost (this is done even on a warranty system).

Faster failure diagnosis:
If utilizing one lighting system, staff may be able to identify the problem just by speaking to the manufacturer or performing a quick hands-on test. This drastically reduces diagnostic time and increases productivity.

Customer service:
With the knowledge of one system, staff can return a lighting system to a working condition reducing backlog or leagues needing to reschedule or move to other working fields.

Acquisition costs:
With a 121 athletic fields/courts we may be able to negotiate lower costs to purchase, install, and maintain fixtures from the lighting manufacturer.

Warranty:

D. PRODUCT QUESTIONNAIRE

Are similar products available? ☑ Yes ☐ No
List products:

Qualite, General Electric, Musco, Hubbell, and SES.

Will standardizing reduce the total cost of ownership? ☑ Yes ☐ No Describe savings:

With the products on the market today, some manufactures offer warranties that provide comprehensive warranties that include long-term maintenance plans.

Will standardizing reduce time and costs associated with training? ☑ Yes ☐ No Describe savings:

With product familiarity and consistency, staff will only need to be trained on one lighting systems versus multiple lighting systems. With the use of one manufacturer, staff will be able to become proficient and will be positioned within time to evaluate failures and identify solutions, enhancing knowledge to apply to future service needs.

Sarasota County

STANDARDIZATION REQUEST FORM

Will standardizing reduce maintenance costs? ☑ Yes ☐ No Describe savings:

With the products on the market today, some manufactures offer warranties that provide comprehensive monitoring, and coverage of maintenance, which includes labor, materials and lamp replacement. Additionally warranty coverage provides assurance that safe light levels are maintained as per the required standards and specifications thus mitigating risk. Technological improvements allows for a browser based interface which allows centralized management and analysis reducing windshield time to perform an on site assessment of the issue.

What are the benefits of standardizing?

Centralized performance monitoring Vendor Investment and Ownership
County time and labor savings Shorten Procurement Cycle – Product Acquisition
Improved reporting and data retention Single Manufacturer/Product vs. Multiple
Improved maintenance tracking

Are there established standards for this commodity? ☑ Yes ☐ No

Identify standards (ex: ANSI, ASTM): Illuminating Engineering Society of North America http://www.ies.org/

Has the product been tested by the County? ☑ Yes ☐ No Describe Testing:

We have several manufacturers currently in use by the County and have maintenance and repair records associated with each.

Will standardizing reduce inventory requirements? ☑ Yes ☐ No If yes, explain how:

Currently stock multiple manufacturers lighting components. Depending on final selection of manufacturer, potential exists to reduce stocked inventory completely and equipment necessary to perform the repairs.

REQUESTING DEPARTMENT APPROVAL

Print Name of Requestor

Signature/Date
Carolyn Brown Digitally signed by Carolyn Brown Date: 2015.12.21 16:16:38 -05'00'

Print Name of Director

Director Signature/Date[1]:

AUTHORIZATION

☑ Request Approved, proceed with Request for Information process
☐ Request Approved, proceed with Single Source request
☐ Request Denied Reason for denial:

Edward F. Coyman, Jr., Procurement Official

Signature/Date 1-26-2016

Solicitation 163269CB

Standardization of Outdoor Sports Lighting

Bid Designation: Public

Sarasota County

Bid 163269CB
Standardization of Outdoor Sports Lighting

Bid Number	163269CB
Bid Title	Standardization of Outdoor Sports Lighting
Bid Start Date	May 6, 2016 10:50:53 AM EDT
Bid End Date	Jun 3, 2016 5:00:00 PM EDT
Question & Answer End Date	May 27, 2016 10:00:00 AM EDT
Bid Contact	Charlyn Briandi Team Lead, Analyst OFM - Procurement 941-451-6601 cbriandi@scgov.net
Contract Duration	See Specifications
Contract Renewal	Not Applicable
Prices Good for	Not Applicable
Bid Comments	Sarasota County, a political subdivision of the State of Florida, is requesting Letters of Interest ("LOI") from Respondents for the purpose of selecting a standard outdoor sports lighting system for use at County outdoor athletic facilities.
Required Vendor Qualifications	NO LOBBY, IMMIGRATION

Item Response Form

Item 163269CB-01-01 - Cover Letter
Quantity 1 each
Prices are not requested for this item.
Delivery Location Sarasota County
No Location Specified

Qty 1

Description
Please upload Cover Letter as described in Part 1 STANDARDIZATION RFI 163269CB, attached hereto and incorporated herein. See 5.1.1.

Item 163269CB-01-02 - Company Information
Quantity 1 each
Prices are not requested for this item.
Delivery Location Sarasota County
No Location Specified

Qty 1

Description
Please upload Company Information as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.2.

Item 163269CB-01-03 - Product Information

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload Product Information as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.3.

Item **163269CB-01-04 - Software Integration Approach**

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload Software Integration Approach as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.4.

Item **163269CB-01-05 - Warranty**

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload Warranty Information as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.5.

Item **163269CB-01-06 - Costs Summary**

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload Costs Summary as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.6.

Item **163269CB-01-07 - Reference List**

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload Reference List as described in Part 1 STANDARDIZATION RFI 163269CB. See 5.1.7.

Item **163269CB-01-08 - Metal Halide Lighting Performance Analysis Form**

Quantity 1 each

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload a completed copy of Metal Halide Lighting Performance Analysis Form_RFI_163269CB.xlsx.

Item **163269CB--01-09 - LED Lighting Performance Analysis Form**

Quantity **1 each**

Prices are not requested for this item.

Delivery Location **Sarasota County**

No Location Specified

Qty 1

Description

Please upload a completed copy of LED Lighting Performance Analysis Form_RFI_163269CB.xlsx.

Sarasota County

REQUEST FOR INFORMATION ("RFI") – PART I
STANDARDIZATION

RFI #: 163269CB **RFI TITLE: Outdoor Sports Lighting System Standardization**

1.0 PURPOSE

Sarasota County ("County"), a political subdivision of the State of Florida, will receive Letters of Interest ("LOI") on the date indicated in BidSync for the purpose of selecting a standard outdoor sports lighting system for use at County outdoor athletic facilities. For the purpose of this RFI, the term "Respondent" is defined as the legal entity submitting the Letter of Interest.

2.0 BACKGROUND

Sarasota County currently owns and/or operates 121 lighted, outdoor athletic areas and fields/courts as indicated in Exhibit 1, Location List. A variety of manufacturers, methods of installation and degrees of technology are currently utilized in the maintenance and operation of the lighted athletic areas. The County centrally manages the reservations and scheduling of outdoor sports facilities through a recreation reservation software system, RecTrac, by Vermont Systems, Inc. Customer information from RecTrac provides our current vendor, Skylogix, which is a wireless remote controls and electronic monitoring and switching company, with time of day and day of week event programming.

Sarasota County Parks, Recreation and Natural Resources - Sports Development and Athletics has many upcoming planned projects where lighting is a major component. Currently three lighting projects are in the design and engineering phase with another four projects planned in the next three years. Planned projects are subject to change pending priorities and availability of funding.

3.0 QUESTIONS AND ADDENDA

3.1 Any inquiries, suggestions or requests concerning interpretation, clarification or additional information pertaining to the solicitation shall be submitted electronically through BidSync. All questions must be received no later than the deadline specified in the solicitation. No verbal requests for information will be honored.

3.2 The electronic response posted in BidSync or the posting of an addendum in BidSync are the only official methods whereby interpretation, clarification or additional information will be provided. It shall be the responsibility of each respondent, prior to submitting their LOI, to visit BidSync and determine if addenda were issued and to make such addenda a part of their LOI.

3.3 The County shall not be responsible for oral interpretations or representations made by County employees, representatives or third parties. Any questions raised at a pre-solicitation meeting will be formally answered in an addendum.

3.4 By submitting a response, respondents acknowledge receipt of any and all issued addenda, and agree to the provisions of each.

4.0 TECHNICAL REQUIREMENTS

The County is seeking technical information from Respondents regarding products that meet the technical specifications described in Part II - Technical Specifications.

5.0 SUBMITTAL REQUIREMENTS

Sarasota County

REQUEST FOR INFORMATION ("RFI") – PART I
STANDARDIZATION

5.1 **Documents**: Responses must include all of the documents below. Each document must be provided electronically in BidSync.

5.1.1. Cover Letter– Provide a single page cover letter summarizing your capabilities.

5.1.2. Company Information – Provide a corporate overview, including company structure, staffing and financial soundness.

5.1.3. Product Information -

a. Describe how your product meets the County's technical requirements.

b. Describe how your system provides real time remote monitoring and diagnostics, including timeframe for providing notifications to the Owner.

c. Describe how your system provides remote lighting controls for Owner and users. Include security levels, connectivity integration, advance scheduling capabilities and outage recovery. Describe web-based system capabilities, including user dashboards and mobile integration. Define hours of software support (preferably 24/7). Explain how your system will fully integrate with Skylogix or will integrate with RecTrac to provide time of day and day of week event programming.

d. Provide product brochures and other pertinent descriptive materials to assist in the evaluation of your product.

5.1.4. Software Integration Approach – Describe how your lighting system would integrate with the County's recreational reservation software system, RecTrac 10.3. (The County will be upgrading to RecTrac 3.1 in August 2016)

5.1.5. Warranty – Describe your warranty options, including costs, coverage, response times and exclusions.

5.1.6. Costs – Provide a summary of your current pricing structure.

5.1.7. Reference List - Please include a list of no more than 20 outdoor athletic sites where a variety of your lighting systems are currently in use, preferably in Florida. The list should include a contact person, phone number and email as well as the dates the lighting systems were installed. The County may elect to visit sites to see your product in use or contact current or past customers. If possible, include references that demonstrate lighting system installations at each type of field maintained by the County (refer to Table 1 in Part II).

5.2 **Attached Documents**: The documents listed below are provided as attachments to this RFI and must be completed and uploaded as an attachment with your submittal.

5.2.1. Metal Halide Lighting Performance Analysis Form

5.2.2. LED Lighting Performance Analysis Form

REQUEST FOR INFORMATION ("RFI") – PART I
STANDARDIZATION

6.0 EVALUATION PROCESS

6.1 All timely responses shall be reviewed by the County's Standardization Committee.

6.2 The Committee may consider the following factors: (1) Ability to meet technical requirements; (2) Total cost of ownership, including initial purchase, maintenance and training; (3) Ease or difficulty of use; (4) Product lifespan; (5) Warranty; (6) References. The Committee may consider other factors as well as those listed.

6.3 A determination by the County to standardize is discretionary. Responding to this RFI creates no rights in any respondent to challenge the outcome of the evaluation process.

6.4 The Committee may elect to test products from any or all of the Respondents. If testing is required, the County may request product samples for testing purposes and/or may initiate site visits to observe the product in use.

6.5 Notice of any public meetings pertaining to this RFI shall be posted at www.scgov.net. Respondents are instructed to contact Sarasota County Procurement if no meetings are indicated on the website and they wish to confirm whether meetings have been scheduled.

7.0 STANDARDIZATION DETERMINATION

7.1 The County shall standardize on the product(s) that, in the sole opinion of the County, best meet(s) the needs of the County.

PART II
TECHNICAL SPECIFICATIONS

The County is seeking technical information from Respondents regarding products that meet or exceed the following technical requirements:

1.0 System Integration

Ability to integrate with RecTrac software version 10.3, the County's recreational reservation software system (the County will be upgrading to version 3.1 in August 2016).

2.0 Environmental Light Controls

2.1 Fixtures must utilize spill light and glare control devices, including, but not limited to internal shields, louvers and external shields to minimize spill light to adjoining properties and glare to players and spectators.

2.2 Average horizontal Foot candles at the property line from the perimeter the field shall not exceed .5 FC. Foot candle readings shall be taken at 30' intervals along the specified line.

2.3 Illumination level shall be measured in accordance with Illuminating Engineering Society of North America (IESNA) RP-6-01, and be measured at the first 100 hours of operation

3.0 Lighting Performance

3.1 Guaranteed light levels for a period of not less than 10 years for metal halide and LED. Average illumination level shall be measured in accordance with the iESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not drop below desired targets in accordance with IESNA RP-6-01, maintained average illuminance and shall be guaranteed for the full warranty period. Hours of usage shall be based upon 500 hours annually per athletic field, and comply with the typical illuminance levels for each type of field in accordance with Table 1 below.

Table 1

ACTIVITY	CLASS I	CLASS II	CLASS III	CLASS IV
BASEBALL	150/100 FC	100/70FC	50/30 FC	30/20 FC
BASKETBALL	n/a	n/a	30 FC	20 FC
FOOTBALL	100 FC	50 FC	30 FC	20 FC
SOCCER (OUTDOOR)		50 FC	30 FC	20 FC
SOFTBALL	150/100 FC	100/70 FC	50/30 FC	30/20
SWIMMING	n/a	n/a	n/a	n/a
POOL (at water level)		30 FC	30 FC	10 FC
DECK (at deck level)		20 FC	10 FC	10 FC
TENNIS	125 FC	75 FC	50 FC	30 FC
TRACK & FIELD	n/a	n/a	n/a	n/a
FIELD	n/a	50 FC	30 FC	20 FC
TRACK (at grade)	n/a	30 FC	20 FC	20 FC
VOLLEYBALL	n/a	n/a	30 FC	20 FC

PART II
TECHNICAL SPECIFICATIONS

4.0 Energy Consumption

The average kWh consumption for the system shall be 121 kWh or less.

5.0 Lighting Methodology

5.1 Automated timed power adjustments, utilizes methodology that adjusts light levels through a series of programmed adjustments. Lighting

5.2 Continuous Depreciating Light, uses continuous lamp lumen depreciation which is recovered by relamping and cleaning lenses of the luminaires.

6.0 Preventative and Spot Maintenance

6.1 Manufacturer shall provide all preventative and maintenance and repair, including parts and labor for a minimum of 10 years from the date of equipment shipment.

6.2 Individual lamp outages shall be repaired when the usage of any field is materially impacted. Owner agrees to check fuses in the event of a luminaire outage.

7.0 Remote Monitoring System with Diagnostics

7.1 System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The manufacturer will notify the owner of outages, preferably within 24 hours, or the next business day. The controller shall determine switch position (Manual or Auto) and contactor status (open or closed).

8.0 Remote Lighting Control System:

8.1 System shall allow owner and users with a security code to schedule on/off system operation.

8.2 Manufacturer shall provide software support, preferably 24/7.

8.3 Flexible lighting control system that permits the owner to assign various security levels to schedulers by function and/or fields. It is preferred that the system would include the following functionality:

a. Flexible privileges ranging from full scheduling capabilities for all fields, to only having permission to execute "early off" commands by phone.

b. Ability to set curfew limits.

c. Acceptance and storage of 7-day schedules

d. Protection against memory loss during power outages, and ability to reboot once power is regained and execute any commands that would have occurred during outage.

8.4 Manufacturer shall provide a web-based database and dashboard tool to capture usage and provide reports. Is preferred that the tool provide the following:

a. Dashboard showing current status of lamp outages, control operation and service scheduling including re-lamping operations completed and scheduled.

PART II
TECHNICAL SPECIFICATIONS

b. Mobile application suitable for IOS, Android, and Blackberry devices.

8.5 Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 10 years. Required site service within the warranty period shall be within 24 hours.

9.0 Warranty

9.1 Minimum 10-Year Warranty covering the entire system for 10 years, or for the maximum hours of coverage based on the estimated annual usage, whichever occurs first. It is preferred that the warranty include the following:

a. Guarantee light levels will not fall below target maintained levels. A 10% +/- design/testing allowance will not be allowed.

9.2 Lamp replacements; system energy consumption; monitoring, maintenance and control services, spill light control, and structural integrity.

9.3 Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term.

9.4 Manufacturer shall include all group lamp replacements required to provide a minimum 10 years of operation based upon 500 usage hours per year.

Lighting Performance Analysis - Metal Halide

		Additional Information	Soccer 120yd x 80 yd	Football 120yd x 54yd	Baseball /Softball 350FT Center	Baseball /Softball 300FT Center	Baseball /Softball 200FT Center	Outdoor Court 100ft x 75ft
A.	Average Maintained Foot-Candles		30 FC	30 FC	50/30 FC	50/30 FC	50/30 FC	30 FC
B.	Maximum to Minimum Uniformity Ratio	An IESNA design criteria to assure that light is distributed evenly across the entire field.						
C.	Average KWh Consumption	KWh to maintained desired FC						
D.	Max KWh Consumption	KWh to maintained desired FC						
E.	Number of Pole Structures	# of poles to provide desired lighting levels						
F.	Number of Sports Light Fixtures	# of fixtures on poles to provide desired lighting levels						
G.	Number of Times Lamps Replaced based on minimum 10 yr. warranty	Based upon product offered						

H.	Controls Manufactured or Custom Assembled	Proprietary or Standard	
I.	Uplink - Type / Method of Connectivity	How is data and information transferred from lighting system to perfornamce dashboar or simliar	
J.	List 3rd Party Capability for Control Integration	What other systems have the capablity of integrating to control lighting system.	

Please base your calculation using the following assumptions:

1. Light Source - Metal Halide
2. Electric Power - 480 volt 3-phase
3. Fixture mounting height - 70 ft.
4. Based on minimum 10 year warranty
5. Based - 500 hours of annual usage

Lighting Performance Analysis - LED

		Additional Information	Soccer 120yd x 80 yd	Football 120yd x 54yd	Baseball /Softball 350FT Center	Baseball /Softball 300FT Center	Baseball /Softball 200FT Center	Outdoor Court 100ft x 75ft
A.	**Average Maintained Foot-Candles**		30 FC	30 FC	50/30 FC	50/30 FC	50/30 FC	30 FC
B.	**Maximum to Minimum Uniformity Ratio**	An IESNA design criteria to assure that light is distributed evenly across the entire field.						
C.	**Average KWh Consumption**	KWh to maintained desired FC						
D.	**Max KWh Consumption**	KWh to maintained desired FC						
E.	**Number of Pole Structures**	# of poles to provide desired lighting levels						
F.	**Number of Sports Light Fixtures**	# of fixtures on poles to provide desired lighting levels						
G.	**Number of Times Lamps Replaced based on minimum 10 yr. warranty**	Based upon product offered						

H.	**Controls Manufactured or Custom Assembled**	Proprietary or Standard	
I.	**Uplink - Type / Method of Connectivity**	How is data and information transferred from lighting system to perfornamce dashboar or simliar	
J.	**List 3rd Party Capability for Control Integration**	What other systems have the capablity of integrating to control lighting system.	

Please base your calculation using the following assumptions:

1. Light Source - LED
2. Electric Power - 480 volt 3-phase
3. Fixture mounting height - 70 ft.
4. Based on minimum 10 year warranty
5. Based - 500 hours of annual usage

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Second and Final Public Hearing of an ordinance pertaining to the General Employees Retirement Plan

Summary:

Second and Final Public Hearing of an ordinance of the City of Plantation, Florida amending Chapter 18 of the Code of Ordinances of the City pertaining to the General Employees' Retirement System, establishing a mechanism for a change in beneficiaries for members; providing updates for consistency; providing a savings clause; and providing an effective date therefor.

ATTACHMENTS:

Description	Upload Date	Type
Memorandum	4/3/2017	Cover Memo
Ordinance	4/3/2017	Ordinance
Backup Material	4/3/2017	Backup Material

M E M O R A N D U M

TO: MAYOR BENDEKOVIC AND MEMBERS OF CITY COUNCIL

FROM: QUENTIN E. MORGAN, BOARD ATTORNEY

RE: ORDINANCE PERTAINING GENERAL EMPLOYEES RETIREMENT PLAN

DATE: April 3, 2017

Enclosed please find an Ordinance for your consideration regarding allowable beneficiary changes to the General Employees' Pension Plan. The General Employees Retirement System's Board has unanimously decided to allow members to change beneficiaries for retirement options that specify beneficiaries. Currently a member is not allowed to change beneficiaries once an election has been made. Now, the Board will allow a member, upon written approval from the Board, to change beneficiaries after any election.

To illustrate, under the Ordinance a member is <u>not</u> allowed to change the form of payment. If a member has a life annuity and wants to change the form of payment, they cannot do so; however, they can change from one beneficiary to another.

The Ordinance would have no Actuarial Impact on the Plan. The item is now ready for consideration.

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF PLANTATION, FLORIDA, AMENDING CHAPTER 18 OF THE CODE OF ORDINANCES OF THE CITY PERTAINING TO THE GENERAL EMPLOYEES' RETIREMENT SYSTEM, ESTABLISHING A MECHANISM FOR A CHANGE IN BENEFICIARIES FOR MEMBERS; PROVIDING UPDATES FOR CONSISTENCY; PROVIDING A SAVINGS CLAUSE; AND PROVIDING AN EFFECTIVE DATE THEREFOR.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, THAT:

SECTION 1: A new section 18-32.1 is hereby created to read as follows:

Sec. 18-32.1 – Change of beneficiary.

If a member has elected an option with a beneficiary, the member shall be permitted to request a change of the designated beneficiary, but such change shall be deemed a new election and shall be subject to approval by the board of trustees. If a member has elected an option with a beneficiary and his or her retirement income benefits have commenced, he or she may thereafter change the designated beneficiary, but such change shall be deemed a new election and shall be subject to approval by the board of trustees. A request for any such change shall be made to the board of trustees on the form provided by the board of trustees. The consent of a member's beneficiary to any such change shall not be required. A change in beneficiary will result in a recalculation of the member's retirement benefit to account for the age of the new beneficiary which may result in an adjustment to the member's retirement benefit.

SECTION 2: Section 18-43 is hereby repealed in its entirety and designated as Reserved:

Sec. 18-43. **Reserved.**

~~**Sec. 18-43. - Prior death of co-annuitant.**~~

~~The election by a member of section 18-39 above shall be null and void if the designated co-annuitant dies before the member's retirement.~~

SECTION 3: Should any section, paragraph, sentence, clause, phrase or other part of this Ordinance be declared by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of this Ordinance as a whole or any portion or part thereof, other than the part so declared to be invalid.

SECTION 4: This Ordinance shall take effect immediately upon passage on second reading by the City Council and signature by the Mayor.

PASSED ON FIRST READING by the City Council this _____ day of _____, 2017.

PASSED AND ADOPTED ON SECOND READING by the City Council this ____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____
MAYOR

ATTEST

_____
CITY CLERK

9016-01182[1625]

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing signed Ordinance was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 2017.

_____
Susan Slattery, City Clerk

ORDINANCE ADVERTISING REQUIREMENTS

AN ORDINANCE OF THE CITY OF PLANTATION, FLORIDA, AMENDING CHAPTER 18 OF THE CODE OF ORDINANCES OF THE CITY PERTAINING TO THE GENERAL EMPLOYEES' RETIREMENT SYSTEM, ESTABLISHING A MECHANISM FOR A CHANGE IN BENEFICIARIES FOR MEMBERS; PROVIDING UPDATES FOR CONSISTENCY; PROVIDING A SAVINGS CLAUSE; AND PROVIDING AN EFFECTIVE DATE THEREFOR.

I. CITY COUNCIL MEETING A. Statutory Advertising:	
x	Small advertisement; 1 time, 10 days prior to adoption

These advertising instructions are approved by the Legal Dept.:

Quentin Morgan 3/23/17

Attorney OK (date)

GRS Retirement Consulting

P: 954.527.1616 | F: 954.525.0083 | www.grsconsulting.com

March 30, 2017

Ms. Beth Haines
Pension Administrator
City of Plantation
400 Northwest 73rd Avenue
Plantation, Florida 33317

Re: City of Plantation General Employees Retirement System

Dear Beth:

As requested, we have reviewed the proposed ordinance which would amend the Plan as follows:

- A provision is added allowing a retired member to change his or her beneficiary designation without the approval of the current beneficiary.

In our opinion, this amendment will have no actuarial impact on the Plan for pre-funding purposes.

The change listed above allows retirees to change their joint annuitant after payments commence. This provision may open the door to what is referred to as "anti-selection". For example, if the retiree's joint annuitant becomes terminally ill, the retiree could make a change to name a healthy joint annuitant. This change would increase the liability of the Plan unless the shorter expected lifetime of the first joint annuitant is taken into account when calculating the amount of the new joint and survivor pension.

Members who take advantage of "anti-selection" will cause actuarial losses. Because of the difficulty in measuring "anti-selection" and the low probability that members will take advantage of this, we do not feel that an estimate for advanced funding is necessary.

Although there is no actuarial impact, a copy of this letter along with the proposed ordinance should be sent to the Division of Retirement before second reading of the ordinance.

The undersigned is a Member of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the Academy of Actuaries to render the actuarial opinion contained herein.

We welcome your questions and comments.

Sincerely yours,

Jeff Amrose

Jeffrey Amrose, MAAA
Senior Consultant & Actuary

One East Broward Blvd. | Suite 505 | Ft. Lauderdale, FL 33301

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Second and Final Public Hearing of an ordinance pertaining to the subject of Zoning.

Summary:

Second and Final Public Hearing of an Ordinance of the City of Plantation, Florida, pertaining to the subject of Zoning; amending Chapter 27-613.2, pertaining to the State Road 7 SPI-2 District of the City so as to amend the list of permitted, conditional and prohibited uses to allow paint stores - (retail sales only) as a permitted use within the subdistrict known as "Auto Mall", providing a savings clause; and providing an effective date therefor.

ATTACHMENTS:

Description	Upload Date	Type
Ordinance	4/19/2017	Ordinance

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF PLANTATION, FLORIDA, PERTAINING TO THE SUBJECT OF ZONING; AMENDING CHAPTER 27-613.2, PERTAINING TO THE STATE ROAD 7 SPI-2 DISTRICT OF THE CITY SO AS TO AMEND THE LIST OF PERMITTED, CONDITIONAL AND PROHIBITED USES TO ALLOW PAINT STORES - (RETAIL SALES ONLY) AS A PERMITTED USE WITHIN THE SUBDISTRICT KNOWN AS "AUTO MALL"; PROVIDING A SAVINGS CLAUSE; AND PROVIDING AN EFFECTIVE DATE THEREFOR.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA that:

SECTION 1: Section 27-613.2 of the Code of Ordinances of the City of Plantation is hereby amended to provide for a revision of the business listing for "Paint Stores – Retail sales only" within the State Road 7 SPI-2 Subdistrict Master List of Business uses, so as to make such business use listing a permitted use in the AM: Auto Mall zoning subdistrict, which revised business listing shall read as follows:

Sec. 27-613.2. Master list of business uses.

BUSINESS LISTINGS	Prohibited	AM: Auto Mall	HCS: Healthcare Services	PO: Professional Office	HC: Hybrid Commercial	FCC: Four Corners Commercial	AC: Artisan Commerce
	•	•		•			
Paint stores - Retail sales only		X			X	X	X
	•	•		•			

SECTION 2: Should an section, paragraph, sentence, clause, phrase or other part of this Ordinance be declared by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of this Ordinance as a whole or any portion or part thereof, other than the part so declared to be invalid.

SECTION 3: This Ordinance shall take effect immediately upon passage on second reading by the City Council and signature by the Mayor.

PASSED ON FIRST READING by the City Council this _____ day of _____, 2017.

PASSED AND ADOPTED ON SECOND READING by the City Council this _____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____
MAYOR

ATTEST:

_____
CITY CLERK

	APROVED	DATE
REQUESTED BY:		
DEPT. OK:		
ADMIN. OK:		
ATTY. OK: AS TO FORM ONLY		3/24/2017

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing signed Ordinance was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 201__.

_____
Susan Slattery, City Clerk

[1889]9018-09001

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Gateway Development District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Gateway Development District.

ATTACHMENTS:

Description	Upload Date	Type
Bill List Gateway Cover & Week 2	4/20/2017	Cover Memo

RESOLUTION NO. _____

A RESOLUTION APPROVING THE EXPENDITURES AND
APPROPRIATIONS REFLECTED IN THE WEEKLY EXPENDITURE REPORT
FOR THE PERIOD April 06, 2017 THROUGH April 19, 2017
THE PLANTATION GATEWAY DEVELOPMENT DISTRICT

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE PLANTATION GATEWAY DEVELOPMENT DISTRICT, that:

The expenditures reflected on the attached weekly Expenditure Reports from the Plantation Gateway Development District's funds are herewith approved and ratified. The planned and actual appropriations and expenditures shown in said reports are hereby authorized, ratified, and approved and shall be funded from existing revenue sources. For those planned and actual appropriations and expenditures that exceed the total prior approved budget amount at the fund level, as amended, the appropriate fund's budget is hereby increased by that amount necessary to accommodate the planned and actual expenditure and appropriations for the fund as listed in the attached reports. A copy of the said weekly reports will be filed with the City Clerk of the City of Plantation with a copy of the Resolution attached thereto.

APPROVED AND ADOPTED BY THE CITY COUNCIL SITTING AS THE BOARD OF DIRECTORS OF THE PLANTATION GATEWAY DEVELOPMENT DISTRICT THIS Wednesday, April 26, 2017.

_____
Chairperson

ATTEST:

_____
City Clerk

Approval:

_____ _____
Finance Date

_____ _____
Administration Date

Plantation Gateway Development District

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Checks Voided	Amount	Check Date
146321	COAST PUMP WATER TECHNOLOGIES		117.34	04/12/2017
			117.34	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

Plantation Gateway Development District
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
COAST PUMP WATER TECHNOLOGIES						
	04/12/2017	146321	Computer			
				117.34	112-0000	R/M-Grounds
				117.34		
		Sum of Computer Checks		**117.34**		
		Sum of Manual Checks				
		Total		**117.34**		

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

Plantation Gateway Development District
Check & Payment Register Fund Summary
Check Dates 4/6/2017 to 4/12/2017

Fund	Fund Name	Computer Checks	Manual Checks	Credits	Total
112	Plantation Gateway Dev Dist	117.34			117.34
		117.34			**117.34**

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Midtown Development District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Midtown Development District.

ATTACHMENTS:

Description	Upload Date	Type
Bill List Midtown Cover & Week 1	4/20/2017	Cover Memo

RESOLUTION NO. _____

A RESOLUTION APPROVING THE EXPENDITURES AND
APPROPRIATIONS REFLECTED IN THE WEEKLY EXPENDITURE REPORT
FOR THE PERIOD April 06, 2017 THROUGH April 19, 2017
THE PLANTATION MIDTOWN DEVELOPMENT DISTRICT

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE PLANTATION MIDTOWN DEVELOPMENT DISTRICT, that:

The expenditures reflected on the attached weekly Expenditure Reports from the Plantation Midtown Development District's funds are herewith approved and ratified. The planned and actual appropriations and expenditures shown in said reports are hereby authorized, ratified, and approved and shall be funded from existing revenue sources. For those planned and actual appropriations and expenditures that exceed the total prior approved budget amount at the fund level, as amended, the appropriate fund's budget is hereby increased by that amount necessary to accommodate the planned and actual expenditure and appropriations for the fund as listed in the attached report. A copy of the said weekly reports will be filed with the City Clerk of the City of Plantation with a copy of the Resolution attached thereto.

APPROVED AND ADOPTED BY THE CITY COUNCIL SITTING AS THE BOARD OF DIRECTORS OF THE PLANTATION MIDTOWN DEVELOPMENT DISTRICT THIS Wednesday, April 26, 2017.

_____
Chairperson

ATTEST:

_____
City Clerk

Approval:

_____ _____
Finance Date

_____ _____
Administration Date

Plantation Midtown Development District

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Checks Voided	Amount	Check Date
146240	LANDSCAPE SERVICE PROFESSIONALS INC		5,957.50	04/12/2017
			5,957.50	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

Plantation Midtown Development District
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
LANDSCAPE SERVICE PROFESSIONALS INC						
	04/12/2017	146240	Computer			
				5,957.50	109-0000	R/M-Maintenance contract
				5,957.50		
		Sum of Computer Checks		**5,957.50**		
		Sum of Manual Checks				
		Total		**5,957.50**		

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

Plantation Midtown Development District
Check & Payment Register Fund Summary
Check Dates 4/6/2017 to 4/12/2017

Fund	Fund Name	Computer Checks	Manual Checks	Credits	Total
109	Plantation Midtown Dev Dist	5,957.50			5,957.50
		5,957.50			**5,957.50**

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation.

ATTACHMENTS:

Description	Upload Date	Type
Bill List General Cover & Week 1	4/20/2017	Cover Memo
Bill List General Week 2	4/20/2017	Cover Memo

RESOLUTION NO. _____

A RESOLUTION APPROVING THE EXPENDITURES AND
APPROPRIATIONS REFLECTED IN THE WEEKLY EXPENDITURE REPORT
FOR THE PERIOD April 06, 2017 THROUGH April 19, 2017

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, that:

The expenditures reflected on the attached weekly Expenditure Reports from all City funds are herewith approved and ratified. The planned and actual appropriations and expenditures shown in said reports are hereby authorized, ratified, and approved and shall be funded from existing revenue sources. For those planned and actual appropriations and expenditures that exceed the total prior approved budget amount at the fund level, as amended, the appropriate fund's budget is hereby increased by that amount necessary to accommodate the planned and actual expenditures and appropriations for the fund as listed in the attached reports. A copy of the said weekly reports will be filed with the City Clerk of the City of Plantation with a copy of the Resolution attached thereto.

APPROVED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, THIS Wednesday, April 26, 2017.

_____
Mayor

ATTEST:

_____
City Clerk

Approval:

_____ _____
Finance Date

_____ _____
Administration Date

RESOLUTION NO. _____

A RESOLUTION APPROVING THE EXPENDITURES AND
APPROPRIATIONS REFLECTED IN THE WEEKLY EXPENDITURE REPORT
FOR THE PERIOD April 06, 2017 THROUGH April 12, 2017

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, that:

The expenditures reflected on the attached weekly Expenditure Reports from all City funds are herewith approved and ratified. The planned and actual appropriations and expenditures shown in said reports are hereby authorized, ratified, and approved and shall be funded from existing revenue sources. For those planned and actual appropriations and expenditures that exceed the total prior approved budget amount at the fund level, as amended, the appropriate fund's budget is hereby increased by that amount necessary to accommodate the planned and actual expenditures and appropriations for the fund as listed in the attached reports. A copy of the said weekly reports will be filed with the City Clerk of the City of Plantation with a copy of the Resolution attached thereto.

APPROVED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, THIS Wednesday, April 26, 2017.

_____
Mayor

ATTEST:

_____
City Clerk

Approval:

_____ _____
Finance Date

_____ _____
Administration Date

City of Plantation

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Amount	Check Date
146209	211 BROWARD	2,500.00	04/12/2017
146150	ACTION FENCE CORPORATION	1,372.95	04/12/2017
146149	ACTION GATOR TIRE	2,977.63	04/12/2017
146151	ADVANCED FIRE & SECURITY INC	810.00	04/12/2017
146152	AERO HARDWARE & SUPPLY CO	145.55	04/12/2017
146153	AIR INSTALL INC	305.00	04/12/2017
146154	AIR SCIENCE USA LLC	4,924.00	04/12/2017
000333	ALL FLORIDA CONTRACTING SERVICES	248,927.40	04/12/2017
146155	ALLIED UNIVERSAL CORPORATION	2,610.20	04/12/2017
146156	ALLIGATOR ALLEY HARLEY DAVIDSON	622.34	04/12/2017
146157	ALLSTATE RESOURCE MANAGEMENT INC	500.00	04/12/2017
146158	ALSCO INC	99.24	04/12/2017
146161	AMERICAN EXPRESS TRAVEL RELATED SVC CO INC	780.45	04/12/2017
146162	AMERICAN EXPRESS TRAVEL RELATED SVCS CO INC I	2,610.27	04/12/2017
146159	AMERICAN IMPRINTS OF SOUTH FL INC	3,614.94	04/12/2017
146160	AMERICAN PLUMBING INC	12.64	04/12/2017
146163	ANDIROSY DISTRIBUTION CORP	129.34	04/12/2017
146164	ANIMAL RANGERS INC	1,000.00	04/12/2017
146165	AQUATIC SYSTEMS INC/VERTEX WATER FEATURES	188.00	04/12/2017
146166	ARC BROWARD	2,499.69	04/12/2017
146167	ARMY NAVY OUTDOORS	299.99	04/12/2017
146168	ASE TELECOM & DATA INC	376.23	04/12/2017
146169	AT&T MOBIITY	42.00	04/12/2017
146170	AT&T MOBILITY	92.56	04/12/2017
146171	AT&T SOUTHEAST, AT&T GEORGIA	55.00	04/12/2017
146322	AT&T SOUTHEAST, AT&T GEORGIA	40.00	04/12/2017
146172	AUTOMATIC DATA PROCESSING LLC	7,920.70	04/12/2017
146327	BANK OF AMERICA	1,351.25	04/12/2017
146328	BANK OF AMERICA	216.87	04/12/2017
146329	BANK OF AMERICA	90.80	04/12/2017
146271	BEACON ATHLETICS	853.00	04/12/2017
146173	BENNETT AUTO SUPPLY INC	1,628.10	04/12/2017
146174	BIRCH COMMUNICATIONS	384.79	04/12/2017
146175	BLUE TARP FINANCIAL INC	30.72	04/12/2017
146176	BOARD OF COUNTY COMMISSIONERS	121.60	04/12/2017
146178	BOARD OF COUNTY COMMISSIONERS	107.00	04/12/2017
146177	BOUND TREE MEDICAL LLC	405.58	04/12/2017

City of Plantation

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Amount	Check Date
146181	BROWARD CO BOARD OF COUNTY COMMISSIONERS	9,959.37	04/12/2017
146182	BROWARD CO WATER & WASTEWATER SERVICES	405.85	04/12/2017
146183	BROWARD COUNTY BOARD OF COUNTY COMMISSIONI	45.00	04/12/2017
146180	BROWARD COUNTY REVENUE COLLECTOR	235.10	04/12/2017
146179	BROWARD NELSON FOUNTAIN SERVICE	381.00	04/12/2017
146184	BUILDING OFFICIALS & INSPECTORS	700.00	04/12/2017
146186	CAN-AM GOLF GROUP LLC	3,358.40	04/12/2017
000334	CARIBE UTILITIES OF FLORIDA INC	139,290.70	04/12/2017
146188	CENGAGE LEARNING INC	192.68	04/12/2017
146314	CHARLES WATTS	1,080.00	04/12/2017
146189	CHENEY BROTHERS INC	1,649.89	04/12/2017
146248	CHRISTINE MARTINS	91.00	04/12/2017
146190	CID & SON GARDEN NURSERY INC	81.25	04/12/2017
146237	CINDY JONES	1,117.08	04/12/2017
146191	CINTAS CORPORATION NO 017	2,467.59	04/12/2017
146192	COAST PUMP WATER TECHNOLOGIES	663.13	04/12/2017
146324	COAST PUMP WATER TECHNOLOGIES	15.12	04/12/2017
146325	COAST PUMP WATER TECHNOLOGIES	23.60	04/12/2017
146193	COBAL VIDEO	1,500.00	04/12/2017
146210	COCA-COLA REFRESHMENTS USA INC	494.42	04/12/2017
146194	COMCAST	600.60	04/12/2017
146113	COMCAST BUSINESS COMMUNICATIONS LLC	3,677.90	04/10/2017
146195	COMMUNITY REDEVELOPMENT ASSOC OF FL INC	2,190.00	04/12/2017
146203	CONNIE EARLE	180.00	04/12/2017
146196	CORAL SPRINGS ANIMAL HOSPITAL	256.73	04/12/2017
146198	DATATEK	950.00	04/12/2017
146235	DAVID IVY	120.00	04/12/2017
146199	DAVIE BATTERY & ALTERNATOR	189.00	04/12/2017
146200	DEBBIE MCKEEVER - PETTY CASH	105.85	04/12/2017
146215	DEBORAH GELLER	138.00	04/12/2017
146201	DEPARTMENT OF ENVIRONMENTAL PROTECTION	100.00	04/12/2017
146320	DEPARTMENT OF ENVIRONMENTAL PROTECTION	3,125.00	04/12/2017
146185	DOLORES M CAMPBELL	1,063.30	04/12/2017
146202	DOOR SYSTEMS OF SOUTH FLORIDA	82.00	04/12/2017
146204	EASY PICKER GOLF PRODUCTS INC	249.21	04/12/2017
146205	EDCO AWARDS & SPECIALTIES	299.28	04/12/2017
146213	Evelyn Liverman Gabor	216.00	04/12/2017
146207	FACILITY FIRST LLC	350.00	04/12/2017

City of Plantation

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Amount	Check Date
146208	FASTENAL COMPANY	348.12	04/12/2017
146211	FLOTECH INC	1,200.00	04/12/2017
146212	FREEDOM COMMUNICATION TECHNOLOGIES INC	675.00	04/12/2017
146216	GETTING GREEN PLANT SERVICE INC	175.00	04/12/2017
146217	GLOBAL TRADING INC	301.34	04/12/2017
146219	GRAINGER	643.87	04/12/2017
146220	GREEN THUMB LAWN & GARDEN LLC	260.27	04/12/2017
146221	HARBOR FREIGHT TOOLS	35.94	04/12/2017
146223	HD SUPPLY WATERWORKS LTD	7,361.76	04/12/2017
146299	HECTOR TURF	1,216.16	04/12/2017
146224	HOME DEPOT CREDIT SERVICES	1,037.79	04/12/2017
146323	HOME DEPOT CREDIT SERVICES	6.97	04/12/2017
146225	HOUSING AND ASSISTIVE TECHNOLOGY INC	1,725.00	04/12/2017
146226	HOWARD FERTILIZER & CHEMICAL CO INC	3,431.13	04/12/2017
146228	HYDRO-STAT INC	23.00	04/12/2017
146229	IMPACT BROWARD INC	1,438.95	04/12/2017
146230	INCSTORES LLC	4,582.05	04/12/2017
146231	INDUSTRIAL HOSE & HYDRAULICS INC	495.44	04/12/2017
146232	INGRAM LIBRARY SERVICES	344.64	04/12/2017
146233	INSIGHT PUBLIC SECTOR INC	5,442.50	04/12/2017
146234	INTERNATIONAL PROTECTIVE SERVICES	100.00	04/12/2017
146261	JOHN M. PEREZ	3,634.56	04/12/2017
146236	JOHNSTONE SUPPLY	145.89	04/12/2017
146187	KATHLEEN CARTER	131.28	04/12/2017
146197	KAY A CREMEENS	120.00	04/12/2017
146326	Kevin J. Brandel Masonry Construction Inc	2,500.00	04/12/2017
146238	KUSSMAUL ELECTRONICS CO INC	299.48	04/12/2017
146242	L & L DISTRIBUTORS INC	373.78	04/12/2017
146239	LAKE MASTERS AQUATIC WEED CONTROL INC	1,904.00	04/12/2017
146241	LEE LEVENBURG	5,020.00	04/12/2017
146243	LOU BACHRODT FREIGHTLINER	4,187.57	04/12/2017
146244	LUKES HEAVY TRUCKS & EQUIPMENT	347.50	04/12/2017
146251	M & H AUTOMOTIVE INC	891.48	04/12/2017
146246	MACMILLAN OIL COMPANY LLC	28,632.16	04/12/2017
146218	MARTIN GRADY	840.82	04/12/2017
146249	MASSEY YARDLEY DODGE CHRYSLER JEEP RAM	523.01	04/12/2017
146250	MCLAWRENCE LAW FIRM, PA	300.00	04/12/2017
146227	MELISSA HURT- Petty Cash	135.65	04/12/2017

City of Plantation

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Amount	Check Date
146272	MICHELLE RATTHE dba	252.00	04/12/2017
146252	MICROMARKETING LLC	204.49	04/12/2017
146253	MILLER LEGG AND ASSOCIATES INC	680.00	04/12/2017
146254	NEXAIR LLC	109.15	04/12/2017
146255	NORTRAX INC	904.99	04/12/2017
000335	NUTTING ENGINEERS OF FL INC	760.00	04/12/2017
146256	NU-TURF LAWN & GARDEN	87.50	04/12/2017
146257	ON-HOLD CONCEPTS INC	85.00	04/12/2017
146258	OVER THE TOP INC	524.24	04/12/2017
146262	P.E. X-GAMES LLC	400.00	04/12/2017
146259	PACE ANALYTICAL SERVICES INC	148.50	04/12/2017
146245	PATRICA M MACGOVERN	180.00	04/12/2017
146260	PC CONTROLS INC	1,735.40	04/12/2017
146263	PLANTATION FORD	53,706.16	04/12/2017
146264	PLUSCO SUPPLY CORP	201.40	04/12/2017
146265	PREFERRED GOVERNMENT CLAIM SOLUTIONS	2,000.00	04/12/2017
146267	PRIME MEDIA	999.00	04/12/2017
146266	PRIME TURF INC	3,250.00	04/12/2017
146268	PRINT DYNAMICS INC	359.00	04/12/2017
146269	PUBLIX SUPERMARKETS INC	119.77	04/12/2017
146270	PUKKA INC	379.80	04/12/2017
146273	RECHTIEN INTERNATIONAL TRUCKS INC	495.96	04/12/2017
146274	REGGAEFIT LLC	90.00	04/12/2017
146214	RODOLFO GABOR	216.00	04/12/2017
146275	ROTH SOUTHEAST LIGHTING LLC	150.00	04/12/2017
146276	RPM DIESEL ENGINE CO INC	19.58	04/12/2017
146277	RUNWAY GROWERS INC	165.00	04/12/2017
146278	SAFEWASTE OF FLORIDA LLC	103.00	04/12/2017
146279	SAWGRASS FORD INC	90.60	04/12/2017
146280	SEAVEY GARDEN & EQUIPMENT CENTER	47.90	04/12/2017
146281	SEVEN C'S LINEN SERVICE	309.50	04/12/2017
146282	SHELL FLEET CARD SERVICES	215.19	04/12/2017
146283	SHERWIN WILLIAMS COMPANY	726.39	04/12/2017
146284	SITEONE LANDSCAPE SUPPLY LLC	393.60	04/12/2017
146285	SKECHERS USA INC	143.38	04/12/2017
146286	SOIL TECH DISTRIBUTORS INC	2,231.65	04/12/2017
146287	SOUTHEASTERN PUMP	3,039.00	04/12/2017
146288	SOUTHERN LOCK & SUPPLY CO	264.75	04/12/2017

City of Plantation

Computer Check Register

Check Dates 4/6/2017 to 4/12/2017

Check	Vendor	Amount	Check Date
146289	SPRINT SOLUTIONS INC	21.00	04/12/2017
146290	STAPLES ADVANTAGE	2,017.97	04/12/2017
146206	STEFANIE ESO	398.20	04/12/2017
146291	STROBES R US INC	2,876.00	04/12/2017
146292	SULLIVAN ELECTRIC & PUMP INC	204.00	04/12/2017
146293	SUMMIT SECURITY ALARM	255.00	04/12/2017
146294	SUPERIOR SIGNALS INC	971.82	04/12/2017
146295	SUPPLYWORKS	1,423.46	04/12/2017
146296	TECH AIR INC	475.77	04/12/2017
146297	TEN-8 FIRE EQUIPMENT INC	783.96	04/12/2017
146298	Tennis Supply	3,443.50	04/12/2017
146247	THE MARLIN COMPANY	730.00	04/12/2017
146300	THYSSENKRUPP ELEVATOR CORPORATION	4,421.35	04/12/2017
146301	TIRESOLES OF BROWARD INC	573.36	04/12/2017
146302	TRULY NOLEN OF AMERICA INC	423.00	04/12/2017
146303	TT&S INC	848.00	04/12/2017
146304	TV DIVERSIFIED LLC	11,650.65	04/12/2017
146307	UNITED HEALTHCARE INSURANCE CO	37,224.30	04/12/2017
146308	UNITED LIGHTING SALES INC	882.60	04/12/2017
146309	UNITED PARCEL SERVICE INC	115.67	04/12/2017
146310	UPSTART PRODUCTS INC	1,371.35	04/12/2017
146311	VERIZON WIRELESS	2,388.31	04/12/2017
146312	VERIZON WIRELESS	697.94	04/12/2017
146313	WATER SAFETY PRODUCTS INC	373.00	04/12/2017
146315	WEEKLEY ASPHALT PAVING INC	3,317.51	04/12/2017
146222	WILLIAM H HARRISON - PETTY CASH	127.33	04/12/2017
146316	WOMEN IN DISTRESS OF BROWARD COUNTY INC	4,258.36	04/12/2017
146317	WOOL PLUMBING SUPPLY	79.50	04/12/2017
146318	WURTH USA INC	155.46	04/12/2017
146319	XEROX CORPORATION	205.95	04/12/2017
		707,624.21	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation

Manual Check Register

Posted Dates 4/6/2017 to 4/12/2017

Payment	Vendor	Amount	Posting Date
CASH	Credit Card Refunds	48.91	03/31/2017
CASH	Credit Card Refunds	48.91	03/31/2017
CASH	Credit Card Refunds	68.91	03/31/2017
CASH	Credit Card Refunds	117.82	03/31/2017
CASH	Credit Card Refunds	250.00	03/31/2017
CASH	Credit Card Refunds	250.00	03/31/2017
CASH	Credit Card Refunds	300.00	03/31/2017
CASH	Credit Card Refunds	300.00	03/31/2017
CASH	Credit Card Refunds	500.00	03/31/2017
W00000000000216159	UNITED HEALTHCARE	141,396.00	04/06/2017
		143,280.55	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
211 BROWARD						
	04/12/2017	146209	Computer			
				2,500.00	115-6600	Public services
				2,500.00		
ACTION FENCE CORPORATION						
	04/12/2017	146150	Computer			
				1,372.95	001-7500	Capital Outlay: Machinery and Equipment
				1,372.95		
ACTION GATOR TIRE						
	04/12/2017	146149	Computer			
				2,717.73	001-0000	Inventory-Garage
				259.90	001-6711	R/M-Tires
				2,977.63		
ADVANCED FIRE & SECURITY INC						
	04/12/2017	146151	Computer			
				280.00	001-3900	R/M-Maintenance contract
				150.00	001-4300	R/M-Maintenance contract
				160.00	001-7300	R/M-Maintenance contract
				220.00	001-7500	R/M-Maintenance contract
				810.00		
AERO HARDWARE & SUPPLY CO						
	04/12/2017	146152	Computer			
				145.55	001-4400	R/M-Vehicles
				145.55		
AIR INSTALL INC						
	04/12/2017	146153	Computer			
				305.00	440-0100	R/M-Equipment
				305.00		
AIR SCIENCE USA LLC						

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/12/2017	146154	Computer			
				4,924.00	001-3900	Supplies/Materials-Expendable
				4,924.00		
ALL FLORIDA CONTRACTING SERVICES						
	04/12/2017	000333	Computer			
				248,927.40	405-0000	CIP - Retrofit/Replace Water Plant Generat
				248,927.40		
ALLIED UNIVERSAL CORPORATION						
	04/12/2017	146155	Computer			
				2,610.20	440-0200	Supplies-Chemicals
				2,610.20		
ALLIGATOR ALLEY HARLEY DAVIDSON						
	04/12/2017	146156	Computer			
				622.34	001-3900	R/M-Vehicles
				622.34		
ALLSTATE RESOURCE MANAGEMENT INC						
	04/12/2017	146157	Computer			
				500.00	449-4924	R/M-Maintenance contract
				500.00		
ALSCO INC						
	04/12/2017	146158	Computer			
				99.24	449-4920	R/M-Maintenance contract
				99.24		
AMERICAN EXPRESS TRAVEL RELATED SVC CO INC						
	04/12/2017	146161	Computer			
				246.49	001-1100	Tools/Under threshold furn/equip
				396.00	001-2700	Wellness program
				12.39	001-7500	Employment testing services
				55.61	001-7500	Supplies/Materials-Expendable
				69.96	001-7500	Tools/Under threshold furn/equip

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				780.45		
AMERICAN EXPRESS TRAVEL RELATED SVCS CO IN						
	04/12/2017	146162	Computer			
				2,610.27	001-3900	Consultative services
				2,610.27		
AMERICAN IMPRINTS OF SOUTH FL INC						
	04/12/2017	146159	Computer			
				955.85	001-0000	A/R-Other-not on aging report
				149.35	001-0000	Accounts Payable-various
				451.79	001-3505	Supplies - Uniforms/Protective gear
				985.25	001-4700	Supplies-Uniforms/Protective gear
				536.35	440-0100	Supplies-Uniforms/Protective gear
				536.35	440-0200	Supplies-Uniforms/Protective gear
				3,614.94		
AMERICAN PLUMBING INC						
	04/12/2017	146160	Computer			
				12.64	113-1300	R/M-Walkways
				12.64		
ANDIROSY DISTRIBUTION CORP						
	04/12/2017	146163	Computer			
				129.34	449-0000	Inventory-Groceries
				129.34		
ANIMAL RANGERS INC						
	04/12/2017	146164	Computer			
				1,000.00	113-1300	Debris removal
				1,000.00		
AQUATIC SYSTEMS INC/VERTEX WATER FEATURES						
	04/12/2017	146165	Computer			
				188.00	001-7500	R/M-Maintenance contract

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				188.00		
ARC BROWARD						
	04/12/2017	146166	Computer			
				2,499.69	115-6600	Public services
				2,499.69		
ARMY NAVY OUTDOORS						
	04/12/2017	146167	Computer			
				200.00	001-4400	Supplies-Uniforms/Protective gear
				99.99	001-7500	Supplies-Uniforms/Protective gear
				299.99		
ASE TELECOM & DATA INC						
	04/12/2017	146168	Computer			
				376.23	313-0000	Capital Outlay: Buildings
				376.23		
AT&T MOBIITY						
	04/12/2017	146169	Computer			
				42.00	001-3900	Communications
				42.00		
AT&T MOBILITY						
	04/12/2017	146170	Computer			
				46.28	440-0100	Communications
				46.28	440-0200	Communications
				92.56		
AT&T SOUTHEAST, AT&T GEORGIA						
	04/12/2017	146171	Computer			
				55.00	001-3900	R/M-Maintenance contract
				55.00		
	04/12/2017	146322	Computer			
				40.00	001-3900	R/M-Maintenance contract

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				40.00		
AUTOMATIC DATA PROCESSING LLC						
	04/12/2017	146172	Computer			
				50.00	001-2300	R/M-Equipment
				7,870.70	001-2700	Outside service fees
				7,920.70		
BANK OF AMERICA						
	04/12/2017	146327	Computer			
				1,351.25	001-0000	Suspense
				1,351.25		
	04/12/2017	146328	Computer			
				216.87	001-0000	Suspense
				216.87		
	04/12/2017	146329	Computer			
				90.80	001-0000	Suspense
				90.80		
BEACON ATHLETICS						
	04/12/2017	146271	Computer			
				853.00	001-7500	R/M-Grounds
				853.00		
BENNETT AUTO SUPPLY INC						
	04/12/2017	146173	Computer			
				628.40	001-0000	Inventory-Garage
				341.39	001-3900	R/M-Vehicles
				9.87	001-7500	R/M-Structures
				324.22	440-0100	R/M-Vehicles
				324.22	440-0200	R/M-Vehicles
				1,628.10		
BIRCH COMMUNICATIONS						

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/12/2017	146174	Computer			
				268.72	001-3900	Communications
				12.74	001-4300	Communications
				11.33	001-5500	Communications
				77.53	001-7500	Communications
				14.47	001-7533	Communications
				384.79		
BLUE TARP FINANCIAL INC						
	04/12/2017	146175	Computer			
				15.36	440-0100	Tools/Under threshold furn/equip
				15.36	440-0200	Tools/Under threshold furn/equip
				30.72		
BOARD OF COUNTY COMMISSIONERS						
	04/12/2017	146176	Computer			
				121.60	113-1300	Debris removal
				121.60		
	04/12/2017	146178	Computer			
				80.00	001-1903	Advertising
				27.00	001-3900	Advertising
				107.00		
BOUND TREE MEDICAL LLC						
	04/12/2017	146177	Computer			
				405.58	001-4400	Tools/Under threshold furn/equip
				405.58		
BROWARD CO BOARD OF COUNTY COMMISSIONER						
	04/12/2017	146181	Computer			
				10,267.40	001-0000	Accrued County Permit Tax Payable
				-308.03	001-0000	Misc revenue-Commissions
				9,959.37		
BROWARD CO WATER & WASTEWATER SERVICES						

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/12/2017	146182	Computer			
				405.85	440-0200	Waste disposal
				405.85		
BROWARD COUNTY BOARD OF COUNTY COMMISSI						
	04/12/2017	146183	Computer			
				45.00	440-0200	Waste disposal
				45.00		
BROWARD COUNTY REVENUE COLLECTOR						
	04/12/2017	146180	Computer			
				117.55	001-3900	Capital Outlay: Machinery and Equipment
				117.55	440-0000	Equipment and furniture
				235.10		
BROWARD NELSON FOUNTAIN SERVICE						
	04/12/2017	146179	Computer			
				381.00	001-7532	Supplies-Chemicals
				381.00		
BUILDING OFFICIALS & INSPECTORS						
	04/12/2017	146184	Computer			
				700.00	001-4700	Memberships/Schools
				700.00		
CAN-AM GOLF GROUP LLC						
	04/12/2017	146186	Computer			
				3,358.40	449-0000	Commissions Payable - Canadian Wholesale
				3,358.40		
CARIBE UTILITIES OF FLORIDA INC						
	04/12/2017	000334	Computer			
				139,290.70	405-0000	CIP - Pltn Gardens/Phase IIB Wtr Main Reh
				139,290.70		
CENGAGE LEARNING INC						

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/12/2017	146188	Computer			
				192.68	108-0000	Capital Outlay: Books-general collections
				192.68		
CHARLES WATTS						
	04/12/2017	146314	Computer			
				1,080.00	001-3900	Personnel Training-Non 2nd dollar
				1,080.00		
CHENEY BROTHERS INC						
	04/12/2017	146189	Computer			
				1,351.55	449-0000	Inventory-Groceries
				47.93	449-4922	Supplies/Materials-Expendable
				73.26	449-4922	Supplies-Fuel
				177.15	449-4923	Supplies/Materials-Expendable
				1,649.89		
CHRISTINE MARTINS						
	04/12/2017	146248	Computer			
				91.00	001-4300	Food and shelter
				91.00		
CID & SON GARDEN NURSERY INC						
	04/12/2017	146190	Computer			
				81.25	001-5900	R/M-Grounds
				81.25		
CINDY JONES						
	04/12/2017	146237	Computer			
				1,117.08	001-7532	Outside instructors
				1,117.08		
CINTAS CORPORATION NO 017						
	04/12/2017	146191	Computer			
				7.13	001-5500	Supplies/Materials-Expendable
				366.44	001-5500	Supplies-Uniforms/Protective gear

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				7.13	001-5900	Supplies/Materials-Expendable
				118.62	001-5900	Supplies-Uniforms/Protective gear
				7.13	001-6711	Supplies/Materials-Expendable
				77.86	001-6711	Supplies-Uniforms/Protective gear
				49.63	001-6712	Supplies-Uniforms/Protective gear
				666.52	001-7500	Supplies-Uniforms/Protective gear
				7.13	113-1300	Supplies/Materials-Expendable
				43.86	113-1300	Supplies-Uniforms/Protective gear
				615.17	440-0100	Supplies-Uniforms/Protective gear
				16.50	440-0100	Waste disposal
				340.27	440-0200	Supplies-Uniforms/Protective gear
				16.50	440-0200	Waste disposal
				92.05	449-4924	Rentals
				7.13	460-5200	Supplies/Materials-Expendable
				28.52	460-5200	Supplies-Uniforms/Protective gear
				2,467.59		
COAST PUMP WATER TECHNOLOGIES						
	04/12/2017	146192	Computer			
				167.22	001-4300	R/M-Grounds
				291.68	001-5500	R/M-Grounds
				204.23	001-7500	R/M-Grounds
				663.13		
	04/12/2017	146324	Computer			
				15.12	001-0000	Suspense
				15.12		
	04/12/2017	146325	Computer			
				23.60	001-0000	Suspense
				23.60		
COBAL VIDEO						
	04/12/2017	146193	Computer			
				1,500.00	001-3900	Consultants

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				1,500.00		
COCA-COLA REFRESHMENTS USA INC						
	04/12/2017	146210	Computer			
				494.42	449-0000	Inventory-Groceries
				494.42		
COMCAST						
	04/12/2017	146194	Computer			
				600.60	001-4300	Communications
				600.60		
COMCAST BUSINESS COMMUNICATIONS LLC						
	04/10/2017	146113	Computer			
				3,677.90	313-0000	Capital Outlay: Buildings
				3,677.90		
COMMUNITY REDEVELOPMENT ASSOC OF FL INC						
	04/12/2017	146195	Computer			
				2,190.00	114-0000	Consultants
				2,190.00		
CONNIE EARLE						
	04/12/2017	146203	Computer			
				180.00	115-6600	Public services
				180.00		
CORAL SPRINGS ANIMAL HOSPITAL						
	04/12/2017	146196	Computer			
				256.73	001-3900	Supplies/maintenance-K-9 unit
				256.73		
DATATEK						
	04/12/2017	146198	Computer			
				475.00	001-1903	R/M-Maintenance contract
				475.00	001-2700	R/M-Maintenance contract

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				950.00		
DAVID IVY						
	04/12/2017	146235	Computer			
				120.00	449-0000	Commissions Payable
				120.00		
DAVIE BATTERY & ALTERNATOR						
	04/12/2017	146199	Computer			
				189.00	001-4300	R/M-Vehicles
				189.00		
DEBBIE MCKEEVER - PETTY CASH						
	04/12/2017	146200	Computer			
				70.00	440-0100	Memberships/Schools
				27.29	440-0100	Transportation costs
				8.56	440-0200	Transportation costs
				105.85		
DEBORAH GELLER						
	04/12/2017	146215	Computer			
				138.00	001-3900	Food and shelter
				138.00		
DEPARTMENT OF ENVIRONMENTAL PROTECTION						
	04/12/2017	146201	Computer			
				100.00	440-0100	Memberships/Schools
				100.00		
	04/12/2017	146320	Computer			
				1,600.00	440-0100	Memberships/Schools
				1,525.00	440-0200	Memberships/Schools
				3,125.00		
DOLORES M CAMPBELL						
	04/12/2017	146185	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				1,063.30	001-7532	Outside instructors
				1,063.30		
DOOR SYSTEMS OF SOUTH FLORIDA						
	04/12/2017	146202	Computer			
				82.00	001-4300	R/M-Structures
				82.00		
EASY PICKER GOLF PRODUCTS INC						
	04/12/2017	146204	Computer			
				249.21	449-4923	R/M-Equipment
				249.21		
EDCO AWARDS & SPECIALTIES						
	04/12/2017	146205	Computer			
				136.58	001-4300	Fire department promotions
				88.00	001-7500	Special events
				44.25	449-4923	Supplies/Materials-Expendable
				30.45	449-4923	Supplies-Uniforms/Protective gear
				299.28		
Evelyn Liverman Gabor						
	04/12/2017	146213	Computer			
				216.00	001-4400	Food and shelter
				216.00		
FACILITY FIRST LLC						
	04/12/2017	146207	Computer			
				350.00	449-4922	R/M-Equipment
				350.00		
FASTENAL COMPANY						
	04/12/2017	146208	Computer			
				12.00	001-4300	R/M-Vehicles
				336.12	001-4300	Tools/Under threshold furn/equip

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				348.12		
FLOTECH INC						
	04/12/2017	146211	Computer			
				1,200.00	440-0200	R/M-Equipment
				1,200.00		
FREEDOM COMMUNICATION TECHNOLOGIES INC						
	04/12/2017	146212	Computer			
				675.00	001-4300	Tools/Under threshold furn/equip
				675.00		
GETTING GREEN PLANT SERVICE INC						
	04/12/2017	146216	Computer			
				175.00	001-5400	Uninsured liability claims
				175.00		
GLOBAL TRADING INC						
	04/12/2017	146217	Computer			
				10.80	001-4300	Supplies-Uniforms/Protective gear
				290.54	001-4400	Supplies-Uniforms/Protective gear
				301.34		
GRAINGER						
	04/12/2017	146219	Computer			
				14.35	440-0100	Tools/Under threshold furn/equip
				303.08	440-0200	R/M-Lift station-materials
				312.08	440-0200	R/M-Structures
				14.36	440-0200	Tools/Under threshold furn/equip
				643.87		
GREEN THUMB LAWN & GARDEN LLC						
	04/12/2017	146220	Computer			
				25.58	001-0000	Inventory-Garage
				234.69	001-7500	R/M-Equipment

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				260.27		
HARBOR FREIGHT TOOLS						
	04/12/2017	146221	Computer			
				35.94	001-5900	Tools/Under threshold furn/equip
				35.94		
HD SUPPLY WATERWORKS LTD						
	04/12/2017	146223	Computer			
				7,361.76	440-0000	Inventory-Materials & Supplies
				7,361.76		
HECTOR TURF						
	04/12/2017	146299	Computer			
				34.26	001-7500	R/M-Equipment
				1,181.90	449-4924	R/M-Vehicles
				1,216.16		
HOME DEPOT CREDIT SERVICES						
	04/11/2017	0091299	Credit			
				-1.05	001-7500	R/M-Structures
				-1.05		
	04/12/2017	146224	Computer			
				131.78	001-3900	Supplies/Materials-Expendable
				113.12	001-4300	R/M-Structures
				100.72	001-4300	Supplies/Materials-Expendable
				162.23	001-4300	Tools/Under threshold furn/equip
				10.96	001-5400	Uninsured liability claims
				49.98	001-5500	Supplies/Materials-Expendable
				10.44	001-5900	Supplies/Materials-Expendable
				9.94	001-6711	Tools/Under threshold furn/equip
				120.63	001-7500	R/M-Structures
				143.11	001-7500	Supplies/Materials-Expendable
				39.92	001-7500	Tools/Under threshold furn/equip

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				29.94	001-7532	Supplies/Materials-Expendable
				94.10	113-1300	Streets signs/Markings
				21.97	113-1300	Supplies/Materials-Expendable
				1,038.84		
	04/12/2017	146323	Computer			
				6.97	001-0000	Suspense
				6.97		
	04/11/2017	9261202	Credit			
				-134.85	001-7500	Supplies/Materials-Expendable
				-134.85		
HOUSING AND ASSISTIVE TECHNOLOGY INC						
	04/12/2017	146225	Computer			
				1,725.00	114-0000	Minor home repair/weatherization
				1,725.00		
HOWARD FERTILIZER & CHEMICAL CO INC						
	04/12/2017	146226	Computer			
				2,373.60	001-7500	R/M-Grounds
				1,057.53	449-4924	Supplies-Chemicals
				3,431.13		
HYDRO-STAT INC						
	04/12/2017	146228	Computer			
				23.00	001-4400	R/M Equipment
				23.00		
IMPACT BROWARD INC						
	04/12/2017	146229	Computer			
				1,438.95	115-6600	Public services
				1,438.95		
INCSTORES LLC						
	04/12/2017	146230	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				4,582.05	001-7500	Tools/Under threshold furn/equip
				4,582.05		
INDUSTRIAL HOSE & HYDRAULICS INC						
	04/12/2017	146231	Computer			
				495.44	001-4300	R/M-Vehicles
				495.44		
INGRAM LIBRARY SERVICES						
	04/12/2017	146232	Computer			
				19.25	001-7100	Capital Outlay: Audio aids
				311.40	001-7100	Capital Outlay: Books-general collections
				13.99	108-0000	Capital Outlay: Books-general collections
				344.64		
INSIGHT PUBLIC SECTOR INC						
	04/12/2017	146233	Computer			
				5,442.50	331-0000	Capital Outlay: Machinery and Equipment
				5,442.50		
INTERNATIONAL PROTECTIVE SERVICES						
	04/12/2017	146234	Computer			
				100.00	001-3900	Outside service fees
				100.00		
JOHN M. PEREZ						
	04/12/2017	146261	Computer			
				3,634.56	317-0000	Consultants
				3,634.56		
JOHNSTONE SUPPLY						
	04/12/2017	146236	Computer			
				44.01	001-6712	R/M-Structures
				35.01	001-7100	R/M-Structures
				66.87	001-7300	R/M-Structures

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				145.89		
KATHLEEN CARTER						
	04/12/2017	146187	Computer			
				131.28	001-7533	Outside instructors
				131.28		
KAY A CREMEENS						
	04/12/2017	146197	Computer			
				120.00	449-0000	Commissions Payable
				120.00		
Kevin J. Brandel Masonry Construction Inc						
	04/12/2017	146326	Computer			
				2,500.00	001-0000	Suspense
				2,500.00		
KUSSMAUL ELECTRONICS CO INC						
	04/12/2017	146238	Computer			
				299.48	001-4300	Tools/Under threshold furn/equip
				299.48		
L & L DISTRIBUTORS INC						
	04/12/2017	146242	Computer			
				179.40	001-0000	Inventory-Garage
				194.38	001-4300	R/M-Vehicles
				373.78		
LAKE MASTERS AQUATIC WEED CONTROL INC						
	04/12/2017	146239	Computer			
				239.00	440-0100	R/M-Grounds
				239.00	440-0200	R/M-Grounds
				1,426.00	460-5200	R/M-Maintenance contract
				1,904.00		
LEE LEVENBURG						

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/12/2017	146241	Computer			
				5,020.00	001-7500	Supplies-Athletic programs
				5,020.00		
LOU BACHRODT FREIGHTLINER						
	04/12/2017	146243	Computer			
				4,302.77	001-4400	R/M-Vehicles
				4,302.77		
	04/11/2017	CM297315P	Credit			
				-115.20	001-4400	R/M-Vehicles
				-115.20		
LUKES HEAVY TRUCKS & EQUIPMENT						
	04/12/2017	146244	Computer			
				347.50	001-7500	R/M-Equipment
				347.50		
M & H AUTOMOTIVE INC						
	04/12/2017	146251	Computer			
				155.63	001-0000	Inventory-Garage
				71.69	001-3900	R/M-Vehicles
				104.73	001-4300	R/M-Vehicles
				169.63	001-4300	Tools/Under threshold furn/equip
				205.35	001-4400	R/M-Vehicles
				37.79	001-5500	R/M-Vehicles
				16.50	001-5500	Supplies/Materials-Expendable
				21.48	001-5500	Tools/Under threshold furn/equip
				21.95	001-5900	R/M-Equipment
				51.95	113-1300	R/M-Vehicles
				17.39	440-0100	R/M-Vehicles
				17.39	440-0200	R/M-Vehicles
				891.48		
MACMILLAN OIL COMPANY LLC						
	04/12/2017	146246	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				9,732.55	001-0000	Inventory-Diesel (Undyed) PW
				17,768.68	001-0000	Inventory-Gasoline PW
				223.93	449-0000	Inventory-Diesel (Dyed)
				907.00	449-0000	Inventory-Gasoline
				28,632.16		
MARTIN GRADY						
	04/12/2017	146218	Computer			
				840.82	001-7532	Outside instructors
				840.82		
MASSEY YARDLEY DODGE CHRYSLER JEEP RAM						
	04/12/2017	146249	Computer			
				322.70	001-0000	Inventory-Garage
				200.31	001-3900	R/M-Vehicles
				523.01		
MCLAWRENCE LAW FIRM, PA						
	04/12/2017	146250	Computer			
				300.00	001-3900	Consultative services
				300.00		
MELISSA HURT- Petty Cash						
	04/12/2017	146227	Computer			
				75.00	001-4700	Food and shelter
				40.65	001-4700	Supplies/Materials-Expendable
				20.00	001-4700	Transportation costs
				135.65		
MICHELLE RATTHE dba						
	04/12/2017	146272	Computer			
				252.00	001-7500	Outside instructors
				252.00		
MICROMARKETING LLC						
	04/12/2017	146252	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				204.49	108-0000	Capital Outlay: Visual aids
				204.49		
MILLER LEGG AND ASSOCIATES INC						
	04/12/2017	146253	Computer			
				680.00	001-5900	R/M Tree Beautification
				680.00		
NEXAIR LLC						
	04/12/2017	146254	Computer			
				54.58	440-0100	Supplies/Materials-Expendable
				54.57	440-0200	Supplies/Materials-Expendable
				109.15		
NORTRAX INC						
	04/12/2017	146255	Computer			
				440.52	113-1300	R/M-Equipment
				232.23	440-0100	R/M-Vehicles
				232.24	440-0200	R/M-Vehicles
				904.99		
NUTTING ENGINEERS OF FL INC						
	04/12/2017	000335	Computer			
				760.00	405-0000	CIP - Pltn Gardens/Historical Area Wtr Main
				760.00		
NU-TURF LAWN & GARDEN						
	04/12/2017	146256	Computer			
				75.00	001-5400	Uninsured liability claims
				12.50	001-5500	R/M-Grounds
				87.50		
ON-HOLD CONCEPTS INC						
	04/12/2017	146257	Computer			
				42.50	440-0100	Communications
				42.50	440-0200	Communications

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				85.00		
OVER THE TOP INC						
	04/12/2017	146258	Computer			
				524.24	449-4922	Rentals
				524.24		
P.E. X-GAMES LLC						
	04/12/2017	146262	Computer			
				400.00	001-7500	Special events
				400.00		
PACE ANALYTICAL SERVICES INC						
	04/12/2017	146259	Computer			
				148.50	440-0200	Chemical analysis
				148.50		
PATRICA M MACGOVERN						
	04/12/2017	146245	Computer			
				180.00	115-6600	Public services
				180.00		
PC CONTROLS INC						
	04/12/2017	146260	Computer			
				1,735.40	440-0100	R/M-Equipment
				1,735.40		
PLANTATION FORD						
	04/12/2017	146263	Computer			
				29,716.28	001-3900	Capital Outlay: Machinery and Equipment
				23,989.88	440-0000	Equipment and furniture
				53,706.16		
PLUSCO SUPPLY CORP						
	04/12/2017	146264	Computer			
				201.40	001-7500	R/M-Structures

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				201.40		
PREFERRED GOVERNMENT CLAIM SOLUTIONS						
	04/12/2017	146265	Computer			
				2,000.00	001-5300	Allocation Acct-Worker's comp administrati\
				2,000.00		
PRIME MEDIA						
	04/12/2017	146267	Computer			
				999.00	001-3900	Supplies/Materials-Expendable
				999.00		
PRIME TURF INC						
	04/12/2017	146266	Computer			
				3,250.00	449-4924	Supplies-Chemicals
				3,250.00		
PRINT DYNAMICS INC						
	04/12/2017	146268	Computer			
				359.00	001-1100	Printing and binding
				359.00		
PUBLIX SUPERMARKETS INC						
	04/12/2017	146269	Computer			
				40.50	001-3900	Supplies/Materials-Expendable
				75.29	001-4300	Supplies/Materials-Expendable
				3.98	449-0000	Inventory-Groceries
				119.77		
PUKKA INC						
	04/12/2017	146270	Computer			
				379.80	449-0000	Inventory-Pro Shop Merchandise
				379.80		
RECHTIEN INTERNATIONAL TRUCKS INC						
	04/12/2017	146273	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				495.96	113-1300	R/M-Vehicles
				495.96		
REGGAEFIT LLC						
	04/12/2017	146274	Computer			
				90.00	115-6600	Public services
				90.00		
RODOLFO GABOR						
	04/12/2017	146214	Computer			
				216.00	001-4300	Food and shelter
				216.00		
ROTH SOUTHEAST LIGHTING LLC						
	04/12/2017	146275	Computer			
				150.00	001-5500	Supplies/Materials-Expendable
				150.00		
RPM DIESEL ENGINE CO INC						
	04/12/2017	146276	Computer			
				19.58	001-5600	R/M-Equipment
				19.58		
RUNWAY GROWERS INC						
	04/12/2017	146277	Computer			
				165.00	001-5400	Uninsured liability claims
				165.00		
SAFEWASTE OF FLORIDA LLC						
	04/12/2017	146278	Computer			
				103.00	001-4400	Supplies-Medical
				103.00		
SAWGRASS FORD INC						
	04/12/2017	146279	Computer			
				90.60	001-3900	R/M-Vehicles

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				90.60		
SEAVEY GARDEN & EQUIPMENT CENTER						
	04/12/2017	146280	Computer			
				47.90	001-5500	R/M-Equipment
				47.90		
SEVEN C'S LINEN SERVICE						
	04/12/2017	146281	Computer			
				264.50	449-4922	Rentals
				45.00	449-4923	Supplies/Materials-Expendable
				309.50		
SHELL FLEET CARD SERVICES						
	04/07/2017	0000000065215071703	Credit			
				-18.63	001-0000	Misc-Other Misc revenue-Other
				-18.63		
	04/12/2017	146282	Computer			
				103.66	001-3900	Transportation costs
				130.16	001-4300	Transportation costs
				233.82		
SHERWIN WILLIAMS COMPANY						
	04/12/2017	146283	Computer			
				726.39	001-3900	R/M-Structures
				726.39		
SITEONE LANDSCAPE SUPPLY LLC						
	04/12/2017	146284	Computer			
				393.60	449-4924	Supplies/Materials-Expendable
				393.60		
SKECHERS USA INC						
	04/12/2017	146285	Computer			
				143.38	449-0000	Inventory-Pro Shop Merchandise

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				143.38		
SOIL TECH DISTRIBUTORS INC						
	04/12/2017	146286	Computer			
				1,527.17	113-1300	R/M-Walkways
				174.16	440-0100	R/M-Grounds
				530.32	460-5200	Materials/Labor-Drainage system
				2,231.65		
SOUTHEASTERN PUMP						
	04/12/2017	146287	Computer			
				3,039.00	440-0200	R/M-Lift station-materials
				3,039.00		
SOUTHERN LOCK & SUPPLY CO						
	04/12/2017	146288	Computer			
				264.75	001-7500	R/M-Structures
				264.75		
SPRINT SOLUTIONS INC						
	04/12/2017	146289	Computer			
				21.00	001-4300	Communications
				21.00		
STAPLES ADVANTAGE						
	04/12/2017	146290	Computer			
				31.25	001-1100	Supplies-Office
				6.70	001-1500	Supplies-Office
				87.56	001-3900	Supplies-Office
				105.87	001-4300	Community relations
				85.90	001-4300	Supplies-Office
				1,499.99	001-4300	Tools/Under threshold furn/equip
				10.86	001-4700	Supplies/Materials-Expendable
				325.72	001-4700	Supplies-Office
				19.67	001-5500	Supplies-Office

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				165.86	001-7500	Supplies-Office
				103.26	001-7532	Supplies-Office
				13.88	440-0100	Supplies/Materials-Expendable
				205.60	440-0100	Supplies-Office
				13.89	440-0200	Supplies/Materials-Expendable
				205.59	440-0200	Supplies-Office
				72.36	449-4920	Supplies-Office
				2,953.96		
	04/11/2017	3332755256	Credit			
				-90.92	001-1100	Supplies-Office
				-90.92		
	04/11/2017	3334555523	Credit			
				-935.99	001-4300	Tools/Under threshold furn/equip
				-935.99		
STEFANIE ESO						
	04/12/2017	146206	Computer			
				398.20	001-5400	Uninsured liability claims
				398.20		
STROBES R US INC						
	04/12/2017	146291	Computer			
				2,876.00	001-4300	Capital Outlay: Machinery and Equipment
				2,876.00		
SULLIVAN ELECTRIC & PUMP INC						
	04/12/2017	146292	Computer			
				204.00	001-7500	R/M-Grounds
				204.00		
SUMMIT SECURITY ALARM						
	04/12/2017	146293	Computer			
				30.00	001-5500	R/M-Maintenance contract
				30.00	001-6712	R/M-Maintenance contract

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				15.00	001-7100	R/M-Maintenance contract
				15.00	001-7300	R/M-Maintenance contract
				75.00	001-7500	R/M-Maintenance contract
				30.00	001-7531	R/M-Maintenance contract
				15.00	001-7532	R/M-Maintenance contract
				15.00	001-7533	R/M-Maintenance contract
				15.00	449-4920	R/M-Maintenance contract
				15.00	449-4924	R/M-Maintenance contract
				255.00		
SUPERIOR SIGNALS INC						
	04/12/2017	146294	Computer			
				971.82	001-0000	Inventory-Garage
				971.82		
SUPPLYWORKS						
	04/12/2017	146295	Computer			
				78.83	001-4300	Supplies-Janitorial
				214.15	001-7100	Supplies-Janitorial
				20.34	001-7300	Supplies-Janitorial
				239.38	001-7500	Supplies/Materials-Expendable
				167.40	001-7500	Supplies-Janitorial
				289.20	001-7531	Supplies/Materials-Expendable
				188.80	001-7531	Supplies-Janitorial
				151.90	001-7533	Supplies/Materials-Expendable
				126.50	440-0100	Supplies/Materials-Expendable
				36.28	449-4923	Supplies/Materials-Expendable
				1,512.78		
	04/11/2017	396635872	Credit			
				-89.32	440-0100	Supplies-Janitorial
				-89.32		
TECH AIR INC						
	04/12/2017	146296	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				475.77	001-6712	R/M-Structures
				475.77		
TEN-8 FIRE EQUIPMENT INC						
	04/12/2017	146297	Computer			
				783.96	001-4300	Tools/Under threshold furn/equip
				783.96		
Tennis Supply						
	04/12/2017	146298	Computer			
				3,443.50	001-7500	R/M-Grounds
				3,443.50		
THE MARLIN COMPANY						
	04/12/2017	146247	Computer			
				730.00	001-4300	R/M-Maintenance contract
				730.00		
THYSSENKRUPP ELEVATOR CORPORATION						
	04/12/2017	146300	Computer			
				1,296.80	001-3900	R/M-Maintenance contract
				476.35	001-4300	R/M-Maintenance contract
				953.09	001-6712	R/M-Maintenance contract
				804.35	001-7500	R/M-Maintenance contract
				328.02	001-7533	R/M-Maintenance contract
				562.74	440-0100	R/M-Maintenance contract
				4,421.35		
TIRESOLES OF BROWARD INC						
	04/12/2017	146301	Computer			
				573.36	460-5200	R/M-Tires
				573.36		
TRULY NOLEN OF AMERICA INC						
	04/12/2017	146302	Computer			
				63.00	001-7500	R/M-Maintenance contract

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				360.00	449-4920	R/M-Maintenance contract
				423.00		
TT&S INC						
	04/12/2017	146303	Computer			
				848.00	001-3900	Printing and binding
				848.00		
TV DIVERSIFIED LLC						
	04/12/2017	146304	Computer			
				11,650.65	443-0000	CIP - Lift Station #66 Replacement
				11,650.65		
UNITED HEALTHCARE INSURANCE CO						
	04/12/2017	146307	Computer			
				37,224.30	001-5300	Allocation Acct-Medical Administrative Costs
				37,224.30		
UNITED LIGHTING SALES INC						
	04/12/2017	146308	Computer			
				253.50	001-7500	R/M-Structures
				629.10	001-7500	Supplies/Materials-Expendable
				882.60		
UNITED PARCEL SERVICE INC						
	04/12/2017	146309	Computer			
				106.06	001-4300	Postage/shipping charges
				4.80	440-0100	Postage/shipping charges
				4.81	440-0200	Postage/shipping charges
				115.67		
UPSTART PRODUCTS INC						
	04/12/2017	146310	Computer			
				1,371.35	449-4924	Supplies-Chemicals
				1,371.35		

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
VERIZON WIRELESS						
	04/12/2017	146311	Computer			
				2,388.31	001-3900	Communications
				2,388.31		
	04/12/2017	146312	Computer			
				541.49	001-7500	Communications
				52.15	001-7533	Communications
				104.30	449-4920	Communications
				697.94		
WATER SAFETY PRODUCTS INC						
	04/12/2017	146313	Computer			
				373.00	001-7532	Tools/Under threshold furn/equip
				373.00		
WEEKLEY ASPHALT PAVING INC						
	04/12/2017	146315	Computer			
				3,317.51	113-1300	R/M Streets
				3,317.51		
WILLIAM H HARRISON - PETTY CASH						
	04/12/2017	146222	Computer			
				16.10	001-3900	Postage/shipping charges
				13.97	001-3900	Printing and binding
				97.26	001-3900	Transportation costs
				127.33		
WOMEN IN DISTRESS OF BROWARD COUNTY INC						
	04/12/2017	146316	Computer			
				4,258.36	115-6600	Public services
				4,258.36		
WOOL PLUMBING SUPPLY						
	04/12/2017	146317	Computer			
				79.50	440-0100	R/M-Structures

City of Plantation
Check & Credit Register Detail
Check Dates 4/6/2017 to 4/12/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				79.50		
WURTH USA INC						
	04/12/2017	146318	Computer			
				155.46	001-4300	Tools/Under threshold furn/equip
				155.46		
XEROX CORPORATION						
	04/12/2017	146319	Computer			
				205.95	108-0000	Supplies-Office
				205.95		
Credit Card Refunds						
	04/06/2017	CASH	Manual			
				1,884.55	001-0000	Refunds-Rec Trac System
				1,884.55		
UNITED HEALTHCARE						
	04/06/2017	W00000000000216159	Manual			
				141,396.00	001-5300	Allocation Acct-Medical Claims
				141,396.00		

Sum of Computer Checks	**707,398.44**
Sum of Manual Checks	**143,280.55**
Total	**850,678.99**

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation
Check & Payment Register Fund Summary
Check Dates 4/6/2017 to 4/12/2017

Fund	Fund Name	Computer Checks	Manual Checks	Credits	Total
001	General Fund	201,730.62	143,280.55	-1,296.64	343,714.53
108	Library Board	617.11			617.11
113	Road and Traffic Control	7,134.41			7,134.41
114	State Housing Initiative Prog	3,915.00			3,915.00
115	Community Dev Block Grant	11,147.00			11,147.00
313	2013 Note Construction	4,054.13			4,054.13
317	2017 Ad Val Bond Construction	3,634.56			3,634.56
331	Designated Capital Improve/Res	5,442.50			5,442.50
405	Series 2013 Utility Sys Rev Nt	388,978.10			388,978.10
440	Utility Operations	50,328.59		-89.32	50,239.27
443	Utility Repair & Replacement	11,650.65			11,650.65
449	Plantation Preserve	17,586.40			17,586.40
460	Stormwater	2,565.33			2,565.33
		708,784.40	**143,280.55**	**-1,385.96**	**850,678.99**

City of Plantation
Checks by Third Party Administrator
Check Dates 4/6/2017 to 4/12/2017

Fund/Dept	Description	Debit	Credit
001-5300	Allocation Acct-Worker's comp claims	8,351.61	
880-0000	Cash-SunTrust Insurance #3255		8,351.61
		8,351.61	**8,351.61**

City of Plantation

Computer Check Register

Check Dates 4/13/2017 to 4/19/2017

Check	Vendor	Amount	Check Date
146519	10-S TENNIS SUPPLY	10,586.75	04/19/2017
146468	ACE PUMP & SUPPLY	703.85	04/19/2017
146469	ACTION LABOR OF FLORIDA LLC	23,866.09	04/19/2017
146470	AERO HARDWARE & SUPPLY CO	379.07	04/19/2017
146340	Garnishment	58.61	04/13/2017
146471	ALKEMA SOLUTIONS	21,382.40	04/19/2017
146472	ALLIED UNIVERSAL CORPORATION	3,559.54	04/19/2017
146473	ALSCO INC	87.69	04/19/2017
146474	AMERICAN PLUMBING INC	653.38	04/19/2017
146475	AMERIGAS PROPANE LP	269.61	04/19/2017
146333	Garnishment	296.77	04/13/2017
146335	Garnishment	369.23	04/13/2017
146477	ARCTIC AUTO CENTER	585.50	04/19/2017
146478	Areawide Council on Aging of Broward County Inc	22,155.00	04/19/2017
146479	ARMY NAVY OUTDOORS	219.95	04/19/2017
146481	AT& T SOUTHEAST-GEORGIA	101.08	04/19/2017
146480	ATLANTIC RADIO TELEPHONE INC	772.35	04/19/2017
146462	BANK OF AMERICA	52,602.10	04/14/2017
146482	BENNETT AUTO SUPPLY INC	970.23	04/19/2017
146483	BENTLEY SYSTEMS INC	732.81	04/19/2017
146484	BLACK OLIVE EAST NURSERY & LANDSCAPING LLC	100.00	04/19/2017
146487	BOARD OF COUNTY COMMISSIONERS	57.00	04/19/2017
146512	BOULEVARD TIRE CENTER	2,435.68	04/19/2017
146485	BOUND TREE MEDICAL LLC	495.81	04/19/2017
146486	BRADLEY SPECIALTIES INC	15.20	04/19/2017
146331	BROWARD CO POLICE BENEVOLENT ASSOCIATION	232.10	04/13/2017
146490	BROWARD COUNTY OFFICE OF THE SHERIFF	222.00	04/19/2017
146491	BROWARD COUNTY REVENUE COLLECTOR	235.10	04/19/2017
146489	BROWARD NELSON FOUNTAIN SERVICE	226.17	04/19/2017
146492	BROWARD REGIONAL HEALTH PLANNING COUNCIL, IN	21,645.00	04/19/2017
146493	BSN SPORTS LLC	221.34	04/19/2017
146494	BURKHARD'S TRACTOR & EQUIPMENT INC	13.08	04/19/2017
146496	CID & SON GARDEN NURSERY INC	88.25	04/19/2017
146497	CINTAS CORPORATION NO 017	1,672.94	04/19/2017
146498	CLERK OF COURTS	10.00	04/19/2017
146499	COAST PUMP WATER TECHNOLOGIES	633.23	04/19/2017
146521	COCA-COLA REFRESHMENTS USA INC	317.81	04/19/2017

City of Plantation

Computer Check Register

Check Dates 4/13/2017 to 4/19/2017

Check	Vendor	Amount	Check Date
146500	COLORADO BANKERS LIFE INSURANCE CO	90.00	04/19/2017
146501	COMCAST	100.76	04/19/2017
146502	COMCAST	109.85	04/19/2017
146503	COMMERCIAL ENERGY SPECIALISTS	1,848.70	04/19/2017
146504	DEAD BUD EDWARDS INC	1,090.00	04/19/2017
146505	DEBBIE MCKEEVER - PETTY CASH	8.56	04/19/2017
146506	DELL MARKETING LP	60.19	04/19/2017
146460	DEPT OF BUSINESS & PROFESSIONAL REGULATION	10,794.07	04/13/2017
146342	Garnishment	154.62	04/13/2017
146507	DIVE RESCUE INTERNATIONAL INC	3,159.85	04/19/2017
146508	DIVERS COVE	1,286.05	04/19/2017
146509	DOOR SYSTEMS OF SOUTH FLORIDA	783.00	04/19/2017
146510	DRY CLEANING DEPOT	68.05	04/19/2017
146511	DUNBAR ARMORED INC	2,031.00	04/19/2017
146513	EDCO AWARDS & SPECIALTIES	132.56	04/19/2017
146516	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC	1,000.00	04/19/2017
146514	ERICKS CONSULTANTS INC	9,000.00	04/19/2017
146515	ERIN ELECTRICAL ENTERPRISES INC	300.00	04/19/2017
146517	EXPERT DIESEL	26.67	04/19/2017
146518	EZ CONCRETE PUMPING INC	20,793.32	04/19/2017
146524	FCX PERFORMANCE INC	730.00	04/19/2017
146520	FERGUSON ENTERPRISES INC	3,580.40	04/19/2017
146523	FLORIDA LEAGUE OF CITIES INC	400.00	04/19/2017
146525	FORT BEND SERVICES INC	11,440.80	04/19/2017
146526	FULL COVER ROOFING SYSTEMS INC	111,925.80	04/19/2017
146617	GEORGIA E. WARNHOFF REVOCABLE TRUST	32.79	04/19/2017
146527	GETTING GREEN PLANT SERVICE INC	56.00	04/19/2017
146528	GLOBAL TRADING INC	2,550.61	04/19/2017
146529	GOODYEAR COMMERCIAL TIRE & SERVICE CENTER	811.38	04/19/2017
146530	GPSI LEASING II - ACCORD LL	2,850.00	04/19/2017
146532	GRAINGER	2,670.72	04/19/2017
146533	GRAYBAR	470.00	04/19/2017
146534	GREEN THUMB LAWN & GARDEN LLC	4,313.73	04/19/2017
146581	GUIDANT MANAGEMENT GROUP LLC	4,457.82	04/19/2017
146538	H & H LIQUID SLUDGE DISPOSAL INC	37,448.16	04/19/2017
146536	HARN R/O SYSTEMS INC	38,320.00	04/19/2017
146537	HAWKINS INC	1,932.00	04/19/2017
146605	HECTOR TURF	402.00	04/19/2017

City of Plantation

Computer Check Register

Check Dates 4/13/2017 to 4/19/2017

Check	Vendor	Amount	Check Date
146463	HOME DEPOT CREDIT SERVICES	19.94	04/19/2017
146539	HOME DEPOT CREDIT SERVICES	1,788.22	04/19/2017
146540	HUDSON PUMP & EQUIPMENT	1,387.05	04/19/2017
146541	HYDRO-STAT INC	54.00	04/19/2017
146542	IDEXX DISTRIBUTION INC	976.82	04/19/2017
146535	INDUSTRIAL CLEANING EQUIPMENT & SUPPLY	159.50	04/19/2017
146543	INNOVATIVE METERING SOLUTIONS INC	15,879.80	04/19/2017
146544	INSIGHT PUBLIC SECTOR INC	1,166.62	04/19/2017
146546	INTERNATIONAL DATA DEPOSITORY	115.00	04/19/2017
146545	INTERSTATE SCREW CORP	332.25	04/19/2017
146547	IRON MOUNTAIN INFORMATION MANAGEMENT LLC	415.72	04/19/2017
146334	Garnishment	304.99	04/13/2017
146548	JOHNSON, ANSELMO, MURDOCH, BURKE,	23,856.65	04/19/2017
146549	KAMAN INDUSTRIAL TECHNOLOGIES CORP.	315.94	04/19/2017
146495	KATHLEEN CARTER	2,969.60	04/19/2017
146550	KCM MACHINE SHOP OF BROWARD COUNTY	1,116.74	04/19/2017
146551	KEMPFER SAWMILL INC	2,040.00	04/19/2017
146464	Kevin J. Brandel Masonry Construction Inc	2,500.00	04/19/2017
146552	KIRLIN FLORIDA LLC	663,500.77	04/19/2017
146553	KONICA MINOLTA BUSINESS SOLUTIONS	8,173.19	04/19/2017
146554	KVM SERVICES INC	512.00	04/19/2017
146555	LABORATORY CORPORATION OF AMERICA HOLDINGS	332.00	04/19/2017
146556	LARRY KLINE WHOLESALE MEATS & PROVISIONS INC	289.92	04/19/2017
146531	LAURIE GRABER	1,100.00	04/19/2017
146336	Garnishment	2,397.80	04/13/2017
146557	LEXIS NEXIS A DIVISION OF RELX INC	100.00	04/19/2017
146558	LINDER INDUSTRIAL MACHINERY COMPANY	122.32	04/19/2017
146559	LOU BACHRODT FREIGHTLINER	80.02	04/19/2017
146560	LUKES HEAVY TRUCKS & EQUIPMENT	49.48	04/19/2017
146567	M & H AUTOMOTIVE INC	1,173.82	04/19/2017
146561	MACMILLAN OIL COMPANY LLC	403.42	04/19/2017
146337	MAROONE FORD OF MARGATE	2,073.74	04/13/2017
146562	MASSEY YARDLEY DODGE CHRYSLER JEEP RAM	229.14	04/19/2017
146563	MD NOW MEDICAL CENTERS INC	1,393.00	04/19/2017
146564	MEDICAL CONSULTANTS NETWORK LLC	885.00	04/19/2017
146565	MELROSE SUPPLY & SALES CORP	556.01	04/19/2017
146566	MENTORING VALUABLES PROTEGES INC	2,318.75	04/19/2017
146568	Miami-Dade Police Department	1,100.00	04/19/2017

City of Plantation

Computer Check Register

Check Dates 4/13/2017 to 4/19/2017

Check	Vendor	Amount	Check Date
146569	MITCHELL CLAIMS SERVICE INC	436.74	04/19/2017
146339	Garnishment	320.76	04/13/2017
146570	MSC INDUSTRIAL SUPPLY CO INC	110.75	04/19/2017
146571	MTS Industrial Inc	1,180.63	04/19/2017
146572	NATALIE'S TOUCH ENVIRONMENTAL SERVICES INC	1,497.58	04/19/2017
146573	NU-TURF LAWN & GARDEN	2,067.99	04/19/2017
146574	PALM TRUCK CENTERS INC	3,779.51	04/19/2017
146488	PAUL BREITFELLER	1,092.00	04/19/2017
146575	PENN CREDIT CORPORATION	828.90	04/19/2017
146576	PINK PUSSYCAT FLOWER SHOP INC	258.50	04/19/2017
146578	PINNACLE DATA SYSTEMS LLC	13,931.85	04/19/2017
146577	PINNACLE PEAK HOLDING CORPORATION	274.59	04/19/2017
146467	PLANTATION FORD	2,148.00	04/19/2017
146341	Garnishment	228.55	04/13/2017
146579	POWER CENTER INC	192.05	04/19/2017
146580	PRIME MEDIA	74.00	04/19/2017
146582	PUBLIX SUPERMARKETS INC	260.95	04/19/2017
146583	PUMP STATION MAINTENANCE SERVICES LLC	49,883.01	04/19/2017
146584	PURPLE YOGINI	25.00	04/19/2017
146585	QUINCY COMPRESSOR LLC	7,656.96	04/19/2017
146590	R&R ELECTRIC OF BROWARD INC	1,658.85	04/19/2017
146330	Garnishment	480.00	04/13/2017
146586	RAVEN PROTECTION SERVICES INC	200.00	04/19/2017
146587	RELIANCE STANDARD LIFE INSURANCE CO	4,238.62	04/19/2017
146588	REV RTC INC dba HALL-MARK RTC	471.79	04/19/2017
146465	ROJAS, MARIA SANCHEZ	157.20	04/19/2017
146589	RPM DIESEL ENGINE CO INC	59.10	04/19/2017
146591	SAWGRASS FORD INC	343.81	04/19/2017
146592	SEVEN C'S LINEN SERVICE	497.20	04/19/2017
146332	Garnishment	369.23	04/13/2017
146593	SHERIFF OF BROWARD COUNTY	2,767.89	04/19/2017
146594	SHERWIN WILLIAMS COMPANY	1,194.42	04/19/2017
146595	SIGNAL TECHNOLOGY ENTERPRISES dba	1,390.00	04/19/2017
146476	SILVIA A MOUSA dba AQUATIC ACADEMY LLC	1,839.50	04/19/2017
146466	SOUTH FLORIDA LASER EYE CENTER INC	1,212.50	04/19/2017
146596	SOUTHEASTERN PUMP	2,880.00	04/19/2017
146597	STAPLES ADVANTAGE	853.15	04/19/2017
146522	STATE OF FLORIDA - DEPT OF FINANCIAL SVCS	7,931.28	04/19/2017

City of Plantation

Computer Check Register

Check Dates 4/13/2017 to 4/19/2017

Check	Vendor	Amount	Check Date
146598	STROBES R US INC	2,876.00	04/19/2017
146599	SUMMIT SECURITY ALARM	11,839.00	04/19/2017
146600	SUNSHINE STATE ONE CALL OF FLORIDA INC	372.04	04/19/2017
146601	SUNTRUST BANK SO FL NA	13,209.84	04/19/2017
146602	SYNALOVSKI ROMANIK SAYE LLC	5,683.50	04/19/2017
146603	TASER INTERNATIONAL	13,340.80	04/19/2017
146604	TEN-8 FIRE EQUIPMENT INC	1,872.84	04/19/2017
146606	TIRESOLES OF BROWARD INC	483.00	04/19/2017
146607	TOTAL COMPLIANCE NETWORK	87.00	04/19/2017
146608	TRAFFIC MAN BBQ INC	1,020.51	04/19/2017
146343	Garnishment	144.80	04/13/2017
146610	UNITED PARCEL SERVICE INC	70.52	04/19/2017
146611	UNIVAR USA INC	178.75	04/19/2017
146612	US HEALTHWORKS MEDICAL GROUP OF FL INC	394.00	04/19/2017
146613	VERIZON WIRELESS	284.65	04/19/2017
146614	VERIZON WIRELESS	252.49	04/19/2017
146615	VERIZON WIRELESS	354.00	04/19/2017
146338	Garnishment	344.82	04/13/2017
146616	WALKER PROCESS EQUIPMENT	5,144.06	04/19/2017
146618	WASTE MANAGEMENT INC OF FLORIDA	302,143.83	04/19/2017
146619	WEEKLEY ASPHALT PAVING INC	998.32	04/19/2017
146620	WESTFIELD DEVELOPMENT INC	2,686.50	04/19/2017
146621	XYLEM WATER SOLUTIONS USA INC	72,561.64	04/19/2017
		1,739,527.17	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation

Manual Check Register

Posted Dates 4/13/2017 to 4/19/2017

Payment	Vendor	Amount	Posting Date
W00000000000216489	AIG Retirement	53,493.93	04/13/2017
00000000000216492	DEPT OF BUSINESS & PROFESSIONAL REGULATION	10,794.07	04/14/2017
00000000000216491	Florida Department of Revenue Sales Tax	29,541.52	04/13/2017
W00000000000216490	FLORIDA SDU	4,928.50	04/14/2017
W00000000000216370	FRATERNAL ORDER OF POLICE LODGE 31	3,462.10	04/13/2017
W00000000000216368	General Employees Pension Fund	72,855.16	04/13/2017
W00000000000216499	Internal Revenue Service	520,455.26	04/17/2017
W00000000000216371	Police Pension Fund	32,864.32	04/13/2017
W00000000000216498	UNITED HEALTHCARE	259,442.41	04/13/2017
		987,837.27	

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
10-S TENNIS SUPPLY						
	04/19/2017	146519	Computer			
				6,689.30	001-7500	R/M-Grounds
				3,897.45	001-7531	R/M-Grounds
				10,586.75		
ACE PUMP & SUPPLY						
	04/19/2017	146468	Computer			
				703.85	001-5400	Uninsured liability claims
				703.85		
ACTION LABOR OF FLORIDA LLC						
	04/19/2017	146469	Computer			
				23,866.09	001-3900	Outside service fees
				23,866.09		
AERO HARDWARE & SUPPLY CO						
	04/19/2017	146470	Computer			
				189.54	440-0100	R/M-Equipment
				189.53	440-0200	R/M-Equipment
				379.07		
Garnishment						
	04/13/2017	146340	Computer			
				58.61	880-0000	Accrued Emp Garnishment
				58.61		
ALKEMA SOLUTIONS						
	04/19/2017	146471	Computer			
				21,382.40	440-0100	Supplies-Chemicals
				21,382.40		
ALLIED UNIVERSAL CORPORATION						
	04/19/2017	146472	Computer			
				2,618.49	440-0100	Supplies-Chemicals

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				941.05	440-0200	Supplies-Chemicals
				3,559.54		
ALSCO INC						
	04/19/2017	146473	Computer			
				87.69	449-4920	R/M-Maintenance contract
				87.69		
AMERICAN PLUMBING INC						
	04/19/2017	146474	Computer			
				23.95	001-3900	R/M-Structures
				14.39	001-3900	Supplies/Materials-Expendable
				252.58	001-4300	R/M-Structures
				173.46	001-6712	R/M-Structures
				189.00	001-7500	R/M-Structures
				653.38		
AMERIGAS PROPANE LP						
	04/19/2017	146475	Computer			
				269.61	449-4922	Supplies-Fuel
				269.61		
Garnishment						
	04/13/2017	146333	Computer			
				296.77	880-0000	Accrued Emp Garnishment
				296.77		
Garnishment						
	04/13/2017	146335	Computer			
				369.23	880-0000	Accrued Emp Garnishment
				369.23		
ARCTIC AUTO CENTER						
	04/19/2017	146477	Computer			
				585.50	001-4400	R/M-Vehicles

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				585.50		
Areawide Council on Aging of Broward County Inc						
	04/19/2017	146478	Computer			
				22,155.00	001-1100	Area agency on aging
				22,155.00		
ARMY NAVY OUTDOORS						
	04/19/2017	146479	Computer			
				219.95	001-4300	Supplies-Uniforms/Protective gear
				219.95		
AT& T SOUTHEAST-GEORGIA						
	04/19/2017	146481	Computer			
				101.08	440-0200	Communications
				101.08		
ATLANTIC RADIO TELEPHONE INC						
	04/19/2017	146480	Computer			
				102.98	001-1100	Communications
				205.96	001-3900	Communications
				257.45	001-4300	Communications
				205.96	001-5500	Communications
				772.35		
BANK OF AMERICA						
	04/14/2017	146462	Computer			
				106.00	001-1100	Food and shelter
				580.00	001-1903	Audit services
				944.22	001-2300	Food and shelter
				849.00	001-2300	Memberships/Schools
				90.50	001-2300	R/M-Equipment
				19.98	001-2300	R/M-Maintenance contract-computers
				331.99	001-2300	Tools/Under threshold furn/equip
				468.89	001-2700	Supplies-Office

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				24.00	001-3505	Employment testing services
				103.00	001-3505	Memberships/Schools
				2,070.72	001-3900	Food and shelter
				260.00	001-3900	Memberships/Schools
				2,830.00	001-3900	Personnel Training-2nd dollar
				1,373.00	001-3900	Personnel Training-Non 2nd dollar
				10.15	001-3900	Postage/shipping charges
				141.51	001-3900	Printing and binding
				2,995.06	001-3900	Supplies/Materials-Expendable
				334.72	001-3900	Supplies-Office
				463.06	001-3900	Supplies-Uniforms/Protective gear
				3,504.54	001-3900	Tools/Under threshold furn/equip
				420.67	001-3900	Transportation costs
				767.67	001-4300	Capital Outlay: Machinery and Equipment
				396.69	001-4300	Communications
				2,450.00	001-4300	Community relations
				504.00	001-4300	Employment testing services
				345.00	001-4300	Food and shelter
				282.00	001-4300	General Collection Books
				1,110.00	001-4300	Memberships/Schools
				139.98	001-4300	R/M-Equipment
				109.95	001-4300	R/M-Vehicles
				153.50	001-4300	Supplies/Materials-Expendable
				139.86	001-4300	Supplies-Office
				223.75	001-4300	Supplies-Uniforms/Protective gear
				6,947.34	001-4300	Tools/Under threshold furn/equip
				50.00	001-4300	Transportation costs
				750.00	001-4400	Community programs
				550.00	001-4400	Memberships/Schools
				435.00	001-4400	R/M Equipment
				423.00	001-4400	Supplies-Medical
				100.47	001-4400	Tools/Under threshold furn/equip
				24.00	001-4700	Employment testing services

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				875.00	001-4700	Memberships/Schools
				5.80	001-4700	Postage/shipping charges
				994.00	001-5500	Memberships/Schools
				40.83	001-5500	R/M-Grounds
				437.15	001-5500	Supplies/Materials-Expendable
				39.99	001-5500	Tools/Under threshold furn/equip
				25.00	001-5500	Transportation costs
				195.00	001-5900	Memberships/Schools
				165.00	001-5900	R/M Tree Beautification
				150.00	001-6712	Supplies/Materials-Expendable
				125.80	001-7100	Communications
				28.14	001-7100	Tools/Under threshold furn/equip
				105.75	001-7300	Communications
				90.00	001-7500	Advertising
				48.00	001-7500	Employment testing services
				789.76	001-7500	Memberships/Schools
				243.94	001-7500	R/M-Equipment
				193.25	001-7500	R/M-Grounds
				260.35	001-7500	Special events
				30.87	001-7500	Supplies-Office
				10,533.73	001-7500	Tools/Under threshold furn/equip
				144.00	001-7532	Employment testing services
				12.60	001-7532	Supplies/Materials-Expendable
				87.67	001-7532	Tools/Under threshold furn/equip
				55.20	001-7533	Supplies/Materials-Expendable
				151.19	108-0000	Capital Outlay: Books-general collections
				152.43	108-0000	Publications/Subscriptions
				117.66	108-0000	Special events
				7.99	108-0000	Supplies/Materials-Expendable
				612.59	108-0000	Tools/Under threshold furn/equip
				799.00	113-1300	Memberships/Schools
				24.00	440-0100	Employment testing services
				69.00	440-0100	Memberships/Schools

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				4.35	440-0100	Postage/shipping charges
				4.24	440-0100	Supplies-Office
				7.01	440-0100	Supplies-Uniforms/Protective gear
				511.13	440-0100	Tools/Under threshold furn/equip
				24.00	440-0200	Employment testing services
				119.00	440-0200	Memberships/Schools
				4.35	440-0200	Postage/shipping charges
				4.23	440-0200	Supplies-Office
				7.00	440-0200	Supplies-Uniforms/Protective gear
				511.13	440-0200	Tools/Under threshold furn/equip
				220.82	449-0000	Inventory-Groceries
				169.00	449-4920	Advertising
				105.00	449-4920	Communications
				6.92	449-4922	Supplies-Uniforms/Protective Gear
				24.00	449-4923	Outside service fees
				499.00	449-4923	Tools/Under threshold furn/equip
				53,655.09		
	04/14/2017	AMAZON032817	Credit			
				-19.99	001-5500	Tools/Under threshold furn/equip
				-19.99		
	04/14/2017	BEST BUY FD2	Credit			
				-41.40	001-4300	Tools/Under threshold furn/equip
				-41.40		
	04/14/2017	BESTBUY2/BURKEEN	Credit			
				-299.99	001-7500	Tools/Under threshold furn/equip
				-299.99		
	04/14/2017	CANDLEWOOD REF 588	Credit			
				-42.84	001-3900	Food and shelter
				-42.84		
	04/14/2017	CANDLEWOOD REF 588	Credit			

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				-42.84	001-3900	Food and shelter
				-42.84		
	04/14/2017	CANDLEWOOD REF 588	Credit			
				-36.89	001-3900	Food and shelter
				-36.89		
	04/14/2017	CONTAINER- CREDIT	Credit			
				-10.56	001-4300	Supplies-Office
				-10.56		
	04/14/2017	CONTAINER STORE 2FI	Credit			
				-7.92	001-4300	Tools/Under threshold furn/equip
				-7.92		
	04/14/2017	DUNKIN REF 3/29/17	Credit			
				-1.26	001-3900	Supplies/Materials-Expendable
				-1.26		
	04/14/2017	HOLIDAY INN CANCEL	Credit			
				-122.63	001-4300	Food and shelter
				-122.63		
	04/14/2017	HOLIDAYINN P TOOLE	Credit			
				-40.89	001-4300	Food and shelter
				-40.89		
	04/14/2017	HOLIDAYINN ZARATE	Credit			
				-54.52	001-4300	Food and shelter
				-54.52		
	04/14/2017	LKAY TALENT REF SL	Credit			
				-249.99	001-3900	Personnel Training-2nd dollar
				-249.99		
	04/14/2017	PAYPAL FD14	Credit			
				-200.00	001-4400	Memberships/Schools

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				-200.00		
	04/14/2017	RENAISSANCE REF 883	Credit			
				-50.64	001-3900	Food and shelter
				-50.64		
	04/14/2017	RENAISSANCE REF 883	Credit			
				-33.76	001-3900	Food and shelter
				-33.76		
	04/14/2017	RENAISSANCE REF 883	Credit			
				-33.76	001-3900	Food and shelter
				-33.76		
BENNETT AUTO SUPPLY INC						
	04/19/2017	146482	Computer			
				679.74	001-0000	Inventory-Garage
				18.18	001-4700	R/M-Vehicles
				28.70	001-5500	R/M-Vehicles
				7.99	001-5500	Supplies/Materials-Expendable
				12.74	001-5900	R/M-Equipment
				109.94	001-6712	R/M-Vehicles
				112.94	440-0100	R/M-Vehicles
				970.23		
BENTLEY SYSTEMS INC						
	04/19/2017	146483	Computer			
				732.81	001-2300	R/M-Maintenance contract-computers
				732.81		
BLACK OLIVE EAST NURSERY & LANDSCAPING LLC						
	04/19/2017	146484	Computer			
				100.00	001-5900	R/M Tree Beautification
				100.00		
BOARD OF COUNTY COMMISSIONERS						

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146487	Computer			
				30.00	001-1903	Advertising
				27.00	001-3900	Advertising
				57.00		
BOULEVARD TIRE CENTER						
	04/19/2017	146512	Computer			
				2,435.68	001-4400	R/M-Tires
				2,435.68		
BOUND TREE MEDICAL LLC						
	04/19/2017	146485	Computer			
				495.81	001-4400	Supplies-Medical
				495.81		
BRADLEY SPECIALTIES INC						
	04/19/2017	146486	Computer			
				15.20	001-2300	Supplies-Office
				15.20		
BROWARD CO POLICE BENEVOLENT ASSOCIATION						
	04/13/2017	146331	Computer			
				232.10	880-0000	Accrued PBA Dues Pay
				232.10		
BROWARD COUNTY OFFICE OF THE SHERIFF						
	04/19/2017	146490	Computer			
				222.00	001-3900	Supplies/Materials-Expendable
				222.00		
BROWARD COUNTY REVENUE COLLECTOR						
	04/19/2017	146491	Computer			
				235.10	113-1300	Capital Outlay: Machinery and Equipment
				235.10		
BROWARD NELSON FOUNTAIN SERVICE						

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146489	Computer			
				226.17	001-7532	Supplies-Chemicals
				226.17		
BROWARD REGIONAL HEALTH PLANNING COUNCIL						
	04/19/2017	146492	Computer			
				21,645.00	001-1100	Subsidized child care
				21,645.00		
BSN SPORTS LLC						
	04/19/2017	146493	Computer			
				221.34	001-7500	R/M-Grounds
				221.34		
BURKHARD'S TRACTOR & EQUIPMENT INC						
	04/19/2017	146494	Computer			
				13.08	001-5500	R/M-Equipment
				13.08		
CID & SON GARDEN NURSERY INC						
	04/19/2017	146496	Computer			
				88.25	001-5900	R/M Tree Beautification
				88.25		
CINTAS CORPORATION NO 017						
	04/19/2017	146497	Computer			
				6.60	001-4300	R/M-Vehicles
				7.13	001-5500	Supplies/Materials-Expendable
				360.44	001-5500	Supplies-Uniforms/Protective gear
				7.13	001-5900	Supplies/Materials-Expendable
				119.02	001-5900	Supplies-Uniforms/Protective gear
				7.13	001-6711	Supplies/Materials-Expendable
				77.86	001-6711	Supplies-Uniforms/Protective gear
				49.63	001-6712	Supplies-Uniforms/Protective gear
				412.56	001-7500	Supplies-Uniforms/Protective gear
				7.13	113-1300	Supplies/Materials-Expendable

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				43.86	113-1300	Supplies-Uniforms/Protective gear
				273.09	440-0100	Supplies-Uniforms/Protective gear
				173.66	440-0200	Supplies-Uniforms/Protective gear
				92.05	449-4924	Rentals
				7.13	460-5200	Supplies/Materials-Expendable
				28.52	460-5200	Supplies-Uniforms/Protective gear
				1,672.94		
CLERK OF COURTS						
	04/19/2017	146498	Computer			
				10.00	001-3900	Consultative services
				10.00		
COAST PUMP WATER TECHNOLOGIES						
	04/19/2017	146499	Computer			
				633.23	001-7500	R/M-Grounds
				633.23		
COCA-COLA REFRESHMENTS USA INC						
	04/19/2017	146521	Computer			
				317.81	449-0000	Inventory-Groceries
				317.81		
COLORADO BANKERS LIFE INSURANCE CO						
	04/19/2017	146500	Computer			
				90.00	880-0000	Accrued Life(Critical Illness)
				90.00		
COMCAST						
	04/19/2017	146501	Computer			
				100.76	001-2300	Communications
				100.76		
	04/19/2017	146502	Computer			
				109.85	001-5300	Allocation Acct-Medical Onsite Clinic

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Plantation
the grass is greener®

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				109.85		
COMMERCIAL ENERGY SPECIALISTS						
	04/19/2017	146503	Computer			
				1,848.70	001-7532	Supplies-Chemicals
				1,848.70		
DEAD BUD EDWARDS INC						
	04/19/2017	146504	Computer			
				600.00	001-4300	R/M-Structures
				490.00	001-7500	R/M-Structures
				1,090.00		
DEBBIE MCKEEVER - PETTY CASH						
	04/19/2017	146505	Computer			
				8.56	440-0200	Transportation costs
				8.56		
DELL MARKETING LP						
	04/19/2017	146506	Computer			
				60.19	001-2300	Supplies/Materials-Expendable
				60.19		
DEPT OF BUSINESS & PROFESSIONAL REGULATIO						
	04/13/2017	146460	Computer			
				11,993.41	001-0000	Accrued BCAI Surcharge Payable
				-1,199.34	001-0000	Misc revenue-Commissions
				10,794.07		
Garnishment						
	04/13/2017	146342	Computer			
				154.62	880-0000	Accrued Emp Garnishment
				154.62		
DIVE RESCUE INTERNATIONAL INC						
	04/19/2017	146507	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				344.64	001-4300	R/M-Equipment
				2,815.21	001-4300	Supplies-Uniforms/Protective gear
				3,159.85		
DIVERS COVE						
	04/19/2017	146508	Computer			
				1,286.05	001-4300	Supplies-Uniforms/Protective gear
				1,286.05		
DOOR SYSTEMS OF SOUTH FLORIDA						
	04/19/2017	146509	Computer			
				783.00	001-4300	R/M-Structures
				783.00		
DRY CLEANING DEPOT						
	04/19/2017	146510	Computer			
				68.05	001-3900	Supplies-Uniforms/Protective gear
				68.05		
DUNBAR ARMORED INC						
	04/19/2017	146511	Computer			
				2,031.00	001-1903	Outside service fees
				2,031.00		
EDCO AWARDS & SPECIALTIES						
	04/19/2017	146513	Computer			
				132.56	001-4300	Fire department promotions
				132.56		
ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE						
	04/19/2017	146516	Computer			
				1,000.00	001-2300	R/M-Maintenance contract-computers
				1,000.00		
ERICKS CONSULTANTS INC						
	04/19/2017	146514	Computer			

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				9,000.00	001-8852	Consultants
				9,000.00		
ERIN ELECTRICAL ENTERPRISES INC						
	04/19/2017	146515	Computer			
				300.00	440-0200	R/M-Lift station-materials
				300.00		
EXPERT DIESEL						
	04/19/2017	146517	Computer			
				26.67	001-4300	R/M-Vehicles
				26.67		
EZ CONCRETE PUMPING INC						
	04/19/2017	146518	Computer			
				20,793.32	460-5200	Capital Outlay: Improvements
				20,793.32		
FCX PERFORMANCE INC						
	04/19/2017	146524	Computer			
				730.00	440-0200	R/M-Equipment
				730.00		
FERGUSON ENTERPRISES INC						
	04/19/2017	146520	Computer			
				2,353.20	440-0000	Inventory-Materials & Supplies
				613.60	440-0100	R/M-Mains
				613.60	440-0200	R/M-Mains
				3,580.40		
FLORIDA LEAGUE OF CITIES INC						
	04/19/2017	146523	Computer			
				400.00	001-1100	Advertising
				400.00		
FORT BEND SERVICES INC						

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146525	Computer			
				11,440.80	440-0200	Supplies-Chemicals
				11,440.80		
FULL COVER ROOFING SYSTEMS INC						
	04/19/2017	146526	Computer			
				111,925.80	001-6712	Capital Outlay: Improvements
				111,925.80		
GEORGIA E. WARNHOFF REVOCABLE TRUST						
	04/19/2017	146617	Computer			
				32.79	440-0000	Service charge-PE-Billing charges
				32.79		
GETTING GREEN PLANT SERVICE INC						
	04/19/2017	146527	Computer			
				56.00	001-5900	R/M Tree Beautification
				56.00		
GLOBAL TRADING INC						
	04/19/2017	146528	Computer			
				2,070.02	001-4300	Supplies-Uniforms/Protective gear
				480.59	001-4400	Supplies-Uniforms/Protective gear
				2,550.61		
GOODYEAR COMMERCIAL TIRE & SERVICE CENTER						
	04/19/2017	146529	Computer			
				811.38	001-4400	R/M-Tires
				811.38		
GPSI LEASING II - ACCORD LL						
	04/19/2017	146530	Computer			
				2,850.00	449-4923	Rentals
				2,850.00		
GRAINGER						

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146532	Computer			
				82.90	001-5500	R/M-Grounds
				960.80	001-7500	Tools/Under threshold furn/equip
				955.65	440-0100	Tools/Under threshold furn/equip
				955.65	440-0200	Tools/Under threshold furn/equip
				2,955.00		
	04/17/2017	9397504821	Credit			
				-142.14	440-0100	Tools/Under threshold furn/equip
				-142.14	440-0200	Tools/Under threshold furn/equip
				-284.28		
GRAYBAR						
	04/19/2017	146533	Computer			
				470.00	440-0100	R/M-Wells
				470.00		
GREEN THUMB LAWN & GARDEN LLC						
	04/19/2017	146534	Computer			
				116.91	001-0000	Inventory-Garage
				8.83	001-5900	R/M-Equipment
				97.99	001-7500	R/M-Equipment
				4,090.00	113-1300	Capital Outlay: Machinery and Equipment
				4,313.73		
GUIDANT MANAGEMENT GROUP LLC						
	04/19/2017	146581	Computer			
				4,457.82	449-4920	Outside service fees
				4,457.82		
H & H LIQUID SLUDGE DISPOSAL INC						
	04/19/2017	146538	Computer			
				37,448.16	440-0200	Waste disposal
				37,448.16		
HARN R/O SYSTEMS INC						

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146536	Computer			
				38,320.00	440-0000	CIP - EWTP/CWTP Membrane Replacement
				38,320.00		
HAWKINS INC						
	04/19/2017	146537	Computer			
				1,932.00	440-0200	Supplies-Chemicals
				1,932.00		
HECTOR TURF						
	04/19/2017	146605	Computer			
				402.00	449-4924	R/M-Vehicles
				402.00		
HOME DEPOT CREDIT SERVICES						
	04/19/2017	146463	Computer			
				19.94	001-0000	Suspense
				19.94		
	04/19/2017	146539	Computer			
				657.58	001-3900	Tools/Under threshold furn/equip
				49.38	001-4300	R/M-Structures
				16.95	001-4300	Supplies/Materials-Expendable
				49.94	001-4300	Supplies-Janitorial
				357.00	001-4300	Tools/Under threshold furn/equip
				7.56	001-5500	Supplies-Janitorial
				29.94	001-5500	Tools/Under threshold furn/equip
				24.75	001-7500	R/M-Equipment
				269.28	001-7500	R/M-Grounds
				91.43	001-7500	R/M-Structures
				17.42	001-7500	Supplies/Materials-Expendable
				2.97	001-7500	Supplies-Uniforms/Protective gear
				97.98	001-7500	Tools/Under threshold furn/equip
				21.97	113-1300	Supplies/Materials-Expendable
				72.10	113-1300	Tools/Under threshold furn/equip

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				21.97	460-5200	Supplies/Materials-Expendable
				1,788.22		
HUDSON PUMP & EQUIPMENT						
	04/19/2017	146540	Computer			
				1,387.05	440-0200	R/M-Lift station-materials
				1,387.05		
HYDRO-STAT INC						
	04/19/2017	146541	Computer			
				54.00	001-4300	R/M-Equipment
				54.00		
IDEXX DISTRIBUTION INC						
	04/19/2017	146542	Computer			
				488.41	440-0100	Supplies/Equipment - Laboratory
				488.41	440-0200	Supplies/Equipment - Laboratory
				976.82		
INDUSTRIAL CLEANING EQUIPMENT & SUPPLY						
	04/19/2017	146535	Computer			
				159.50	001-5500	R/M-Structures
				159.50		
INNOVATIVE METERING SOLUTIONS INC						
	04/19/2017	146543	Computer			
				9,057.60	440-0000	Inventory-Materials & Supplies
				6,822.20	440-0100	R/M-Equipment
				15,879.80		
INSIGHT PUBLIC SECTOR INC						
	04/19/2017	146544	Computer			
				461.76	001-2300	Supplies/Materials-Expendable
				704.86	001-4300	Community relations
				1,166.62		

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
INTERNATIONAL DATA DEPOSITORY						
	04/19/2017	146546	Computer			
				115.00	001-3900	R/M-Maintenance contract
				115.00		
INTERSTATE SCREW CORP						
	04/19/2017	146545	Computer			
				144.88	440-0100	R/M-Equipment
				42.50	440-0100	R/M-Meters
				144.87	440-0200	R/M-Equipment
				332.25		
IRON MOUNTAIN INFORMATION MANAGEMENT LL						
	04/19/2017	146547	Computer			
				415.72	001-2300	Outside service fees
				415.72		
Garnishment						
	04/13/2017	146334	Computer			
				304.99	880-0000	Accrued Emp Garnishment
				304.99		
JOHNSON, ANSELMO, MURDOCH, BURKE,						
	04/19/2017	146548	Computer			
				23,856.65	001-5400	Outside fees-Insuranc
				23,856.65		
KAMAN INDUSTRIAL TECHNOLOGIES CORP.						
	04/19/2017	146549	Computer			
				315.94	440-0200	R/M-Equipment
				315.94		
KATHLEEN CARTER						
	04/19/2017	146495	Computer			
				2,969.60	001-7533	Outside instructors

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				2,969.60		
KCM MACHINE SHOP OF BROWARD COUNTY						
	04/19/2017	146550	Computer			
				1,116.74	440-0200	R/M-Lift station-materials
				1,116.74		
KEMPFER SAWMILL INC						
	04/19/2017	146551	Computer			
				2,040.00	001-7500	R/M-Grounds
				2,040.00		
Kevin J. Brandel Masonry Construction Inc						
	04/19/2017	146464	Computer			
				2,500.00	001-0000	Suspense
				2,500.00		
KIRLIN FLORIDA LLC						
	04/19/2017	146552	Computer			
				663,500.77	443-0000	CIP-Sewerage System Capital Improvement
				663,500.77		
KONICA MINOLTA BUSINESS SOLUTIONS						
	04/19/2017	146553	Computer			
				421.23	001-1100	R/M-Maintenance contract
				319.10	001-1500	R/M-Maintenance contract
				710.01	001-2700	R/M-Maintenance contract
				2,721.43	001-3900	R/M-Maintenance contract
				512.36	001-4300	R/M-Maintenance contract
				260.97	001-4700	R/M-Maintenance contract
				215.60	001-5100	R/M-Maintenance contract
				288.24	001-5500	R/M-Maintenance contract
				1,271.86	001-7500	R/M-Maintenance contract
				727.47	440-0100	R/M-Maintenance contract
				522.96	440-0200	R/M-Maintenance contract

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				201.96	449-4920	R/M-Maintenance contract
				8,173.19		
KVM SERVICES INC						
	04/19/2017	146554	Computer			
				512.00	449-4922	R/M-Equipment
				512.00		
LABORATORY CORPORATION OF AMERICA HOLDIN						
	04/19/2017	146555	Computer			
				19.75	001-3900	Employment testing services
				39.50	001-4700	Employment testing services
				57.75	001-5500	Employment testing services
				19.00	001-5900	Employment testing services
				59.25	001-7500	Employment testing services
				39.50	001-7531	Employment testing services
				19.75	001-7532	Employment testing services
				19.75	001-7533	Employment testing services
				19.37	440-0100	Employment testing services
				19.38	440-0200	Employment testing services
				19.00	460-5200	Employment testing services
				332.00		
LARRY KLINE WHOLESALE MEATS & PROVISIONS I						
	04/19/2017	146556	Computer			
				289.92	449-0000	Inventory-Groceries
				289.92		
LAURIE GRABER						
	04/19/2017	146531	Computer			
				1,100.00	001-3900	Personnel Training-Non 2nd dollar
				1,100.00		
Garnishment						
	04/13/2017	146336	Computer			

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				2,397.80	880-0000	Accrued Emp Garnishment
				2,397.80		
LEXIS NEXIS A DIVISION OF RELX INC						
	04/19/2017	146557	Computer			
				100.00	001-3900	R/M-Maintenance contract
				100.00		
LINDER INDUSTRIAL MACHINERY COMPANY						
	04/19/2017	146558	Computer			
				61.16	440-0100	R/M-Vehicles
				61.16	440-0200	R/M-Vehicles
				122.32		
LOU BACHRODT FREIGHTLINER						
	04/19/2017	146559	Computer			
				80.02	460-5200	R/M-Vehicles
				80.02		
	04/18/2017	CM298190P	Credit			
				-48.11	460-5200	R/M-Vehicles
				-48.11		
LUKES HEAVY TRUCKS & EQUIPMENT						
	04/19/2017	146560	Computer			
				49.48	460-5200	R/M-Vehicles
				49.48		
M & H AUTOMOTIVE INC						
	04/19/2017	146567	Computer			
				880.19	001-0000	Inventory-Garage
				99.67	001-4300	R/M-Vehicles
				26.24	001-4300	Supplies/Materials-Expendable
				44.89	001-5500	Supplies/Materials-Expendable
				52.49	001-6711	R/M-Vehicles
				17.02	001-7500	R/M-Structures

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				53.32	440-0100	R/M-Vehicles
				1,173.82		
	04/18/2017	721604	Credit			
				-3.16	001-0000	Inventory-Garage
				-3.16		
	04/18/2017	722215	Credit			
				-11.30	001-0000	Inventory-Garage
				-11.30		
MACMILLAN OIL COMPANY LLC						
	04/19/2017	146561	Computer			
				139.09	449-0000	Inventory-Diesel (Dyed)
				264.33	449-0000	Inventory-Gasoline
				403.42		
MAROONE FORD OF MARGATE						
	04/13/2017	146337	Computer			
				2,073.74	001-5400	Uninsured liability claims
				2,073.74		
MASSEY YARDLEY DODGE CHRYSLER JEEP RAM						
	04/19/2017	146562	Computer			
				15.84	001-0000	Inventory-Garage
				213.30	001-3900	R/M-Vehicles
				229.14		
MD NOW MEDICAL CENTERS INC						
	04/19/2017	146563	Computer			
				609.00	001-3900	Employment testing services
				720.00	001-4300	Employment testing services
				32.00	001-5500	Employment testing services
				32.00	001-6711	Employment testing services
				1,393.00		

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
MEDICAL CONSULTANTS NETWORK LLC						
	04/19/2017	146564	Computer			
				885.00	001-5400	Litigation services
				885.00		
MELROSE SUPPLY & SALES CORP						
	04/19/2017	146565	Computer			
				556.01	001-7500	R/M-Grounds
				556.01		
MENTORING VALUABLES PROTEGES INC						
	04/19/2017	146566	Computer			
				2,318.75	001-7500	Outside instructors
				2,318.75		
Miami-Dade Police Department						
	04/19/2017	146568	Computer			
				1,100.00	001-3900	Personnel Training-2nd dollar
				1,100.00		
MITCHELL CLAIMS SERVICE INC						
	04/19/2017	146569	Computer			
				436.74	001-5400	Litigation services
				436.74		
Garnishment						
	04/13/2017	146339	Computer			
				320.76	880-0000	Accrued Emp Garnishment
				320.76		
MSC INDUSTRIAL SUPPLY CO INC						
	04/19/2017	146570	Computer			
				39.18	440-0100	R/M-Equipment
				71.57	440-0200	R/M-Equipment
				110.75		

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
MTS Industrial Inc						
	04/19/2017	146571	Computer			
				1,180.63	440-0200	R/M-Equipment
				1,180.63		
NATALIE'S TOUCH ENVIRONMENTAL SERVICES INC						
	04/19/2017	146572	Computer			
				1,497.58	001-7500	R/M-Grounds
				1,497.58		
NU-TURF LAWN & GARDEN						
	04/19/2017	146573	Computer			
				25.00	001-5500	R/M-Grounds
				152.00	001-5900	R/M-Grounds
				190.00	001-7500	R/M-Grounds
				25.00	440-0100	R/M-Grounds
				21.99	440-0200	R/M-Grounds
				1,660.00	449-4924	R/M-Grounds
				2,073.99		
	04/18/2017	48763	Credit			
				-6.00	001-5900	R/M-Grounds
				-6.00		
PALM TRUCK CENTERS INC						
	04/19/2017	146574	Computer			
				2,595.16	001-4300	R/M-Vehicles
				1,184.35	001-4400	R/M-Vehicles
				3,779.51		
PAUL BREITFELLER						
	04/19/2017	146488	Computer			
				1,092.00	001-7532	Outside instructors
				1,092.00		
PENN CREDIT CORPORATION						

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146575	Computer			
				75.79	001-0000	Accounts Payable - Due Penn Credit(EMS)
				753.11	001-0000	Accounts Payable-Due Penn Credit
				828.90		
PINK PUSSYCAT FLOWER SHOP INC						
	04/19/2017	146576	Computer			
				258.50	001-2700	Employee Benefits
				258.50		
PINNACLE DATA SYSTEMS LLC						
	04/19/2017	146578	Computer			
				603.98	001-1903	Postage/shipping charges
				131.30	001-1903	Printing and binding
				5,341.31	440-0100	Postage/shipping charges
				1,256.98	440-0100	Printing and binding
				5,341.30	440-0200	Postage/shipping charges
				1,256.98	440-0200	Printing and binding
				13,931.85		
PINNACLE PEAK HOLDING CORPORATION						
	04/19/2017	146577	Computer			
				274.59	001-3900	Tools/Under threshold furn/equip
				274.59		
PLANTATION FORD						
	04/19/2017	146467	Computer			
				2,148.00	001-0000	Suspense
				2,148.00		
Garnishment						
	04/13/2017	146341	Computer			
				228.55	880-0000	Accrued Emp Garnishment
				228.55		
POWER CENTER INC						

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
	04/19/2017	146579	Computer			
				192.05	001-4300	R/M-Vehicles
				192.05		
PRIME MEDIA						
	04/19/2017	146580	Computer			
				74.00	001-3900	Supplies/Materials-Expendable
				74.00		
PUBLIX SUPERMARKETS INC						
	04/19/2017	146582	Computer			
				260.95	449-0000	Inventory-Groceries
				260.95		
PUMP STATION MAINTENANCE SERVICES LLC						
	04/19/2017	146583	Computer			
				31,512.59	440-0200	R/M-Lift station-labor
				2,484.82	440-0200	R/M-Lift station-materials
				15,715.00	440-0200	R/M-Maintenance contracts-lift stations
				170.60	443-0000	CIP - Lift Station #66 Replacement
				49,883.01		
PURPLE YOGINI						
	04/19/2017	146584	Computer			
				25.00	001-7500	Outside instructors
				25.00		
QUINCY COMPRESSOR LLC						
	04/19/2017	146585	Computer			
				7,656.96	440-0100	R/M-Equipment
				7,656.96		
R&R ELECTRIC OF BROWARD INC						
	04/19/2017	146590	Computer			
				1,658.85	001-5400	Uninsured liability claims

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				1,658.85		
Garnishment						
	04/13/2017	146330	Computer			
				480.00	880-0000	Accrued Emp Garnishment
				480.00		
RAVEN PROTECTION SERVICES INC						
	04/19/2017	146586	Computer			
				200.00	001-7500	R/M-Maintenance contract
				200.00		
RELIANCE STANDARD LIFE INSURANCE CO						
	04/19/2017	146587	Computer			
				4,238.62	880-0000	Accrued Life Ins Pay-Reliance Std
				4,238.62		
REV RTC INC dba HALL-MARK RTC						
	04/19/2017	146588	Computer			
				575.86	001-4300	R/M-Vehicles
				575.86		
	04/18/2017	C46276	Credit			
				-104.07	001-4300	R/M-Vehicles
				-104.07		
ROJAS, MARIA SANCHEZ						
	04/19/2017	146465	Computer			
				157.20	001-0000	Suspense
				157.20		
RPM DIESEL ENGINE CO INC						
	04/19/2017	146589	Computer			
				59.10	001-4300	R/M-Vehicles
				59.10		

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Plantation
the grass is greener®

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
SAWGRASS FORD INC						
	04/19/2017	146591	Computer			
				437.73	001-3900	R/M-Vehicles
				21.56	001-4700	R/M-Vehicles
				148.31	113-1300	R/M-Vehicles
				607.60		
	04/18/2017	CM310955	Credit			
				-233.79	001-3900	R/M-Vehicles
				-233.79		
	04/18/2017	CM318242	Credit			
				-30.00	113-1300	R/M-Vehicles
				-30.00		
SEVEN C'S LINEN SERVICE						
	04/19/2017	146592	Computer			
				447.20	449-4922	Rentals
				50.00	449-4923	Supplies/Materials-Expendable
				497.20		
Garnishment						
	04/13/2017	146332	Computer			
				369.23	880-0000	Accrued Emp Garnishment
				369.23		
SHERIFF OF BROWARD COUNTY						
	04/19/2017	146593	Computer			
				2,767.89	001-4400	Supplies-Medical
				2,767.89		
SHERWIN WILLIAMS COMPANY						
	04/19/2017	146594	Computer			
				438.86	001-3900	R/M-Structures
				124.12	001-5500	R/M-Structures
				367.42	001-7500	R/M-Structures

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				4.99	440-0100	R/M-Equipment
				259.03	440-0200	R/M-Lift station-materials
				1,194.42		
SIGNAL TECHNOLOGY ENTERPRISES dba						
	04/19/2017	146595	Computer			
				1,390.00	001-7500	R/M-Vehicles
				1,390.00		
SILVIA A MOUSA dba AQUATIC ACADEMY LLC						
	04/19/2017	146476	Computer			
				1,839.50	001-7532	Outside instructors
				1,839.50		
SOUTH FLORIDA LASER EYE CENTER INC						
	04/19/2017	146466	Computer			
				1,212.50	001-0000	Suspense
				1,212.50		
SOUTHEASTERN PUMP						
	04/19/2017	146596	Computer			
				2,880.00	440-0200	R/M-Lift station-materials
				2,880.00		
STAPLES ADVANTAGE						
	04/19/2017	146597	Computer			
				59.63	001-1100	Supplies-Office
				35.40	001-2700	Supplies-Office
				293.20	001-4700	Supplies-Office
				44.89	001-5500	Supplies-Office
				28.16	001-7500	Printing and binding
				53.75	001-7500	Supplies-Office
				26.35	001-7500	Tools/Under threshold furn/equip
				28.16	001-7532	Printing and binding
				10.99	001-7532	Supplies-Office

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				170.34	001-7532	Tools/Under threshold furn/equip
				26.70	440-0100	Supplies/Materials-Expendable
				24.38	440-0100	Supplies-Office
				31.13	440-0200	Supplies/Materials-Expendable
				2.22	440-0200	Supplies-Janitorial
				17.85	440-0200	Supplies-Office
				853.15		
	04/18/2017	3336970105	Credit			
				-9.88	001-1100	Supplies-Office
				-9.88		
STATE OF FLORIDA - DEPT OF FINANCIAL SVCS						
	04/19/2017	146522	Computer			
				7,931.28	001-5300	Allocation Acct-Worker's comp premium
				7,931.28		
STROBES R US INC						
	04/19/2017	146598	Computer			
				2,876.00	001-4300	Capital Outlay: Machinery and Equipment
				2,876.00		
SUMMIT SECURITY ALARM						
	04/19/2017	146599	Computer			
				11,839.00	001-7500	Capital Outlay: Machinery and Equipment
				11,839.00		
SUNSHINE STATE ONE CALL OF FLORIDA INC						
	04/19/2017	146600	Computer			
				186.02	440-0100	Permits/Application fees
				186.02	440-0200	Permits/Application fees
				372.04		
SUNTRUST BANK SO FL NA						
	04/19/2017	146601	Computer			
				13,209.84	880-0000	Accounts Payable-various

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				13,209.84		
SYNALOVSKI ROMANIK SAYE LLC						
	04/19/2017	146602	Computer			
				5,683.50	313-0000	Capital Outlay: Buildings
				5,683.50		
TASER INTERNATIONAL						
	04/19/2017	146603	Computer			
				13,340.80	001-3900	Supplies/Materials-Expendable
				13,340.80		
TEN-8 FIRE EQUIPMENT INC						
	04/19/2017	146604	Computer			
				1,872.84	001-4300	Tools/Under threshold furn/equip
				1,872.84		
TIRESOLES OF BROWARD INC						
	04/19/2017	146606	Computer			
				483.00	001-7500	R/M-Tires
				483.00		
TOTAL COMPLIANCE NETWORK						
	04/19/2017	146607	Computer			
				87.00	449-4923	Outside service fees
				87.00		
TRAFFIC MAN BBQ INC						
	04/19/2017	146608	Computer			
				1,020.51	001-2700	Employee Benefits
				1,020.51		
Garnishment						
	04/13/2017	146343	Computer			
				144.80	880-0000	Accrued Emp Garnishment

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				144.80		
UNITED PARCEL SERVICE INC						
	04/19/2017	146610	Computer			
				37.10	001-4300	Postage/shipping charges
				16.71	440-0100	Postage/shipping charges
				16.71	440-0200	Postage/shipping charges
				70.52		
UNIVAR USA INC						
	04/19/2017	146611	Computer			
				59.59	001-3900	R/M-Grounds
				59.58	001-4300	R/M-Grounds
				59.58	001-7500	R/M-Grounds
				178.75		
US HEALTHWORKS MEDICAL GROUP OF FL INC						
	04/19/2017	146612	Computer			
				23.00	001-3505	Employment testing services
				48.00	001-3900	Employment testing services
				47.00	001-5500	Employment testing services
				92.00	001-7500	Employment testing services
				138.00	001-7532	Employment testing services
				23.00	440-0100	Employment testing services
				23.00	440-0200	Employment testing services
				394.00		
VERIZON WIRELESS						
	04/19/2017	146613	Computer			
				241.87	001-1100	Communications
				42.78	001-5400	Communications
				284.65		
	04/19/2017	146614	Computer			
				252.49	001-4400	Communications

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				252.49		
	04/19/2017	146615	Computer			
				354.00	001-4300	Communications
				354.00		
Garnishment						
	04/13/2017	146338	Computer			
				344.82	880-0000	Accrued Emp Garnishment
				344.82		
WALKER PROCESS EQUIPMENT						
	04/19/2017	146616	Computer			
				5,144.06	440-0200	R/M-Equipment
				5,144.06		
WASTE MANAGEMENT INC OF FLORIDA						
	04/19/2017	146618	Computer			
				44,480.70	001-5600	Outside collection services
				257,663.13	001-5600	Waste disposal
				302,143.83		
WEEKLEY ASPHALT PAVING INC						
	04/19/2017	146619	Computer			
				787.48	113-1300	R/M Streets
				210.84	460-5200	Materials/Labor-Drainage system
				998.32		
WESTFIELD DEVELOPMENT INC						
	04/19/2017	146620	Computer			
				2,686.50	001-0000	Refunds-Accela System
				2,686.50		
XYLEM WATER SOLUTIONS USA INC						
	04/19/2017	146621	Computer			
				72,561.64	440-0000	Equipment and furniture

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				72,561.64		
AIG Retirement						
	04/14/2017	W00000000000216489	Manual			
				47,246.56	880-0000	Accrued Deferred Comp
				6,247.37	880-0000	Accrued Deferred Comp Loan Payment
				53,493.93		
DEPT OF BUSINESS & PROFESSIONAL REGULATIO						
	04/14/2017	00000000000216492	Manual			
				11,993.41	001-0000	Accrued DCA Surcharge Payable
				-1,199.34	001-0000	Misc revenue-Commissions
				10,794.07		
Florida Department of Revenue Sales Tax						
	04/14/2017	00000000000216491	Manual			
				3,311.18	001-0000	Accrued Sales Tax Payable
				2.24	440-0000	Accrued Sales Tax Payable
				26,228.10	449-0000	Accrued Sales Tax Payable
				29,541.52		
Garnishment						
	04/14/2017	W00000000000216490	Manual			
				31.50	001-2700	Outside service fees
				4,897.00	880-0000	Accrued Emp Garnishment
				4,928.50		
FRATERNAL ORDER OF POLICE LODGE 31						
	04/14/2017	W00000000000216370	Manual			
				-7.90	001-0000	Misc-Other Misc revenue-Other
				3,470.00	880-0000	Accrued FOP Dues Pay
				3,462.10		
General Employees Pension Fund						
	04/14/2017	W00000000000216368	Manual			

City of Plantation
Check & Credit Register Detail
Check Dates 4/13/2017 to 4/19/2017

Plantation
the grass is greener®

Vendor	Check Date	Check Number	Check Type		Fund/Dept	Description
				72,855.16	880-0000	Accrued General Employees' Retirement Pa
				72,855.16		
Internal Revenue Service						
	04/17/2017	W00000000000216499	Manual			
				287,104.14	880-0000	Accrued FICA Tax Payable
				233,351.12	880-0000	Accrued Withholding Tax Pay
				520,455.26		
Police Pension Fund						
	04/14/2017	W00000000000216371	Manual			
				32,864.32	880-0000	Accrued Police Retirement Pay
				32,864.32		
UNITED HEALTHCARE						
	04/17/2017	W00000000000216498	Manual			
				176,481.75	001-5300	Allocation Acct-Medical Claims
				82,960.66	001-5300	Allocation Acct-Medical prescriptions
				259,442.41		

Sum of Computer Checks	**1,739,217.83**
Sum of Manual Checks	**987,837.27**
Total	**2,727,055.10**

Computer Check: Physical check sent to vendor. Manual Check: Wire or ACH transfer affecting cash.

City of Plantation
Check & Payment Register Fund Summary
Check Dates 4/13/2017 to 4/19/2017

Fund	Fund Name	Computer Checks	Manual Checks	Credits	Total
001	General Fund	708,545.01	273,571.26	-1,658.08	980,458.19
108	Library Board	1,041.86			1,041.86
113	Road and Traffic Control	6,204.95		-30.00	6,174.95
313	2013 Note Construction	5,683.50			5,683.50
440	Utility Operations	298,226.42	2.24	-284.28	297,944.38
443	Utility Repair & Replacement	663,671.37			663,671.37
449	Plantation Preserve	13,414.17	26,228.10		39,642.27
460	Stormwater	21,210.28		-48.11	21,162.17
880	Pooled Cash & Investments	23,240.74	688,035.67		711,276.41
		1,741,238.30	**987,837.27**	**-2,020.47**	**2,727,055.10**

City of Plantation
Checks by Third Party Administrator
Check Dates 4/13/2017 to 4/19/2017

Fund/Dept	Description	Debit	Credit
001-5300	Allocation Acct-Dental Claims	24,093.30	
001-5300	Allocation Acct-Worker's comp claims	58,523.73	343.63
880-0000	Cash-SunTrust Insurance #3255	343.63	82,617.03
		82,960.66	**82,960.66**

City of Plantation
Payroll Summary By Fund/Department
Check Dates 4/13/2017 to 4/19/2017

Fund		Department		Gross Wages	Deductions	Net Wages
001	General Fund	1100	Mayor / Administration	24,293.83	7,702.01	16,591.82
001	General Fund	1500	City Clerk	13,369.39	4,274.53	9,094.86
001	General Fund	1903	Fin Svcs-Finance & Accounting	35,966.15	11,707.29	24,258.86
001	General Fund	2300	Information Technology	47,213.04	15,988.01	31,225.03
001	General Fund	2700	Human Resources	23,537.50	7,606.68	15,930.82
001	General Fund	3505	Development Svcs - PZED	32,462.64	11,103.88	21,358.76
001	General Fund	3900	Police	783,323.04	257,211.15	526,111.89
001	General Fund	4300	Fire	65,242.92	22,942.73	42,300.19
001	General Fund	4400	Fire/Rescue	186,603.01	60,523.32	126,079.69
001	General Fund	4700	Building	53,493.60	17,387.93	36,105.67
001	General Fund	5100	Engineering	24,351.20	7,811.75	16,539.45
001	General Fund	5400	Risk Management	5,359.98	1,851.49	3,508.49
001	General Fund	5500	Public Works	116,883.02	34,245.42	82,637.60
001	General Fund	5900	Landscaping	26,298.43	7,812.73	18,485.70
001	General Fund	6711	Central Svcs-Crafts	28,311.41	8,736.17	19,575.24
001	General Fund	6712	Central Svcs-Facilities Maint.	11,720.77	3,326.74	8,394.03
001	General Fund	7100	Library	19,218.46	6,556.26	12,662.20
001	General Fund	7300	Historical Musuem	2,144.15	493.48	1,650.67
001	General Fund	7500	Parks and Recreation	152,195.32	45,369.82	106,825.50
001	General Fund	7531	Parks & Rec-Tennis Complex	8,166.54	2,001.06	6,165.48
001	General Fund	7532	Parks & Rec-Aquatics Complex	24,078.89	5,212.96	18,865.93
001	General Fund	7533	Parks & Rec-Equestrian Center	4,234.89	1,273.06	2,961.83
113	Road and Traffic Control	1300	Road and Traffic Control	9,280.58	3,636.97	5,643.61
115	Community Dev Block Grant	6600	Community Dev Block Grant	2,598.27	882.26	1,716.01
440	Utility Operations	0100	Water Services	46,563.57	12,971.44	33,592.13

City of Plantation
Payroll Summary By Fund/Department
Check Dates 4/13/2017 to 4/19/2017

Fund		Department		Gross Wages	Deductions	Net Wages
440	Utility Operations	0200	Wastewater Services	28,556.57	8,324.01	20,232.56
440	Utility Operations	0300	Water/Wastewater Combined Serv	129,340.69	38,961.63	90,379.06
460	Stormwater	5200	Stormwater Drainage	7,433.08	2,674.99	4,758.09
				1,912,240.94	**608,589.77**	**1,303,651.17**

City of Plantation
Payroll Summary By Fund
Check Dates 4/13/2017 to 4/19/2017

Fund		Gross Wages	Deductions	Net Wages
001	General Fund	1,688,468.18	541,138.47	1,147,329.71
113	Road and Traffic Control	9,280.58	3,636.97	5,643.61
115	Community Dev Block Grant	2,598.27	882.26	1,716.01
440	Utility Operations	204,460.83	60,257.08	144,203.75
460	Stormwater	7,433.08	2,674.99	4,758.09
		1,912,240.94	**608,589.77**	**1,303,651.17**

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Community Redevelopment District.

Summary:

Resolution approving the expenditures and appropriations reflected in the Weekly Expenditure Report for the period April 6, 2017 through April 19, 2017 for the City of Plantation's Community Redevelopment District.

ATTACHMENTS:

Description	Upload Date	Type
Bill List CRA Cover & Week 1	4/20/2017	Cover Memo

RESOLUTION NO. _____

A RESOLUTION APPROVING THE EXPENDITURES AND
APPROPRIATIONS REFLECTED IN THE WEEKLY EXPENDITURE REPORT
FOR THE PERIOD April 06, 2017 THROUGH April 19, 2017
THE CITY OF PLANTATION'S COMMUNITY REDEVELOPMENT AGENCY

BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF PLANTATION COMMUNITY REDEVELOPMENT AGENCY, that:

Section 1: The expenditures reflected on the weekly Expenditure Report from the Redevelopment Trust Fund of the Plantation Community Redevelopment Agency are herewith approved and ratified. The planned and actual appropriations and expenditures shown in said report are hereby authorized, ratified, and approved and shall be funded from existing revenue sources. For those planned and actual appropriations and expenditures that exceed the total prior approved budget amount at the fund level, as amended, the appropriate fund's budget is hereby increased by that amount necessary to accommodate the planned and actual expenditure and appropriations for the fund, as listed in the attached report. A copy of the said weekly report(s) will be filed with the City Clerk of the City of Plantation, with a copy of the Resolution attached thereto.

Section 2: This Resolution shall become effective after being approved and adopted by a majority of the Board of Commissioners of the Plantation Community Redevelopment Agency and signed by the Chairman.

APPROVED AND ADOPTED BY A MAJORITY OF THE BOARD OF COMMISSIONERS OF THE PLANTATION COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF PLANTATION, FLORIDA, THIS Wednesday, April 26, 2017.

SIGNED BY THE CHAIRMAN THIS Wednesday, April 26, 2017.

_____
Chairperson

ATTEST:

_____
City Clerk

Approval:

_____ _____
Finance Date

_____ _____
Administration Date

Plantation Community Redevelopment Agency
Payroll Summary By Fund/Department
Check Dates 4/13/2017 to 4/19/2017

Fund		Department		Gross Wages	Deductions	Net Wages
110	Community Redevelopment Agency	1000	Community Redevelopment Agency	2,901.07	720.81	2,180.26
				2,901.07	**720.81**	**2,180.26**

Plantation Community Redevelopment Agency
Payroll Summary By Fund
Check Dates 4/13/2017 to 4/19/2017

Fund		Gross Wages	Deductions	Net Wages
110	Community Redevelopment Agency	2,901.07	720.81	2,180.26
		2,901.07	**720.81**	**2,180.26**

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Request to approve outdoor seating for Dunkin Donuts. Property located at 11 N. State Road 7 (PM17-0003)

ATTACHMENTS:

Description	Upload Date	Type
Staff Report	4/20/2017	Backup Material
Aerial Map	4/18/2017	Backup Material
Zoning Map	4/18/2017	Backup Material

Plantation
the grass is greener™

STAFF REPORT TO THE CITY COUNCIL

DATE:	April 26, 2017
SUBJECT:	PM17-0003: Outdoor Seating for Dunkin Donuts – Westgate Plaza
APPLICANT:	David Cafua, representative / Westgate Plaza Inc., owner
ADDRESS:	11 N. State Road 7
LOCATION:	Located on the northwest corner of State Road 7 and Broward Boulevard within the Westgate Plaza.
LAND USE / ZONING:	Commercial / SPI-2 (Four Corners Commercial)

REQUEST: Consideration of a request to have outdoor seating with 1 tables and 7 seats.

EXHIBITS TO BE INCLUDED: Planning & Zoning Division report, and application.

ANALYSIS: Dunkin Donuts within the Westgate Plaza received conditional use approval for a high turnover restaurant with drive thru in November of 2012.

Outdoor seating is subject to the regulations contained in Section 27-613.3(18), attached, which allows for staff to administratively review and approve these type of applications. The applicant has submitted an application to allow one table with 6 fixed seats and 1 handicap accessible seat to be located under the front building arcade to the left of the store entrance. Staff has reviewed the application and found it acceptable for approval.

City Council at their meeting of March 22, 2017, requested the item be agendized for discussion.

STAFF COMMENTS:

PLANNING AND ZONING:

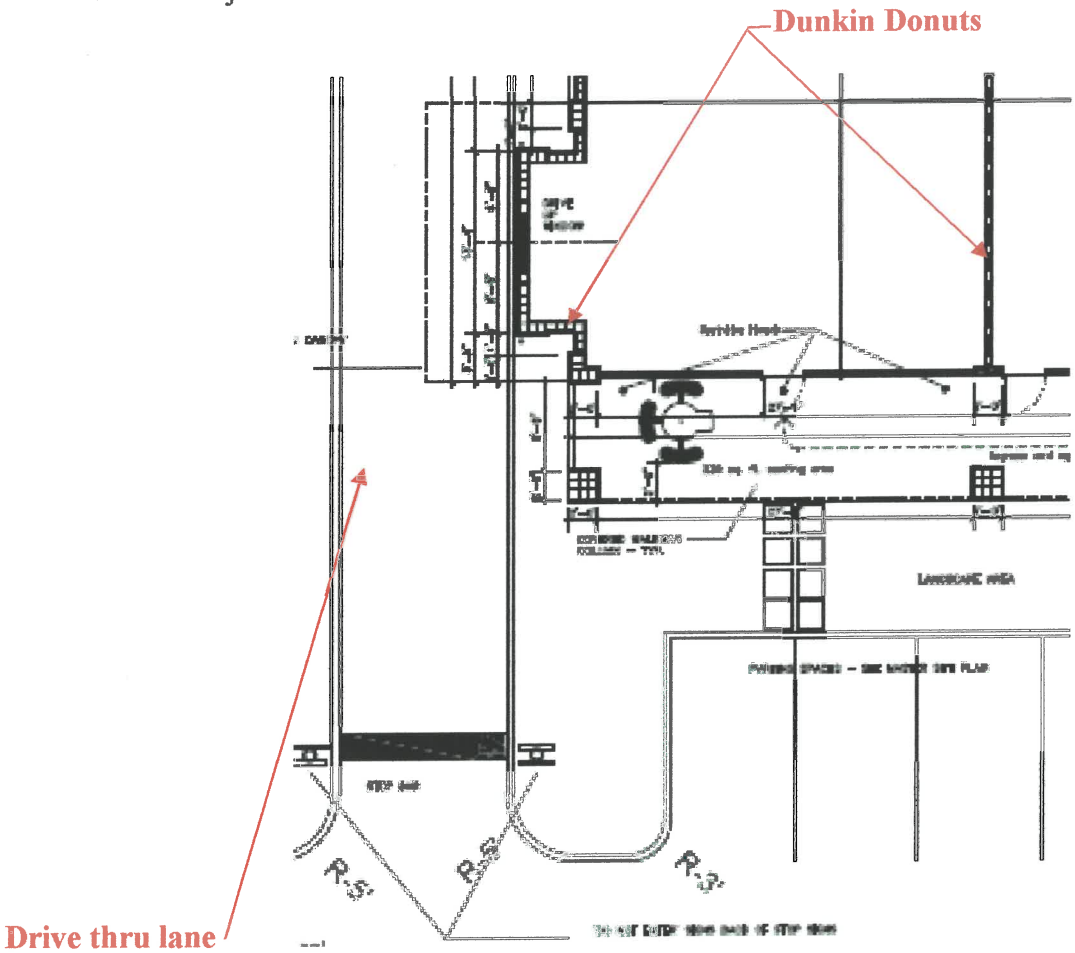
1. The code requires outdoor seating to be moved inside the restaurant during a storm event. According to the specifications provided, the tables weigh between 800 and 850 pounds. Given this, the Building Department has determined that this alternate type of seating may remain outside.
2. Maintain a minimum of 3' between the column at the southwest corner of the building and the seating fixture.

LANDSCAPE: Staff has no objection to the outdoor seating request.
ENGINEERING: No objection.
BUILDING DEPT: No objection.
UTILITIES: No objection.

1. Additional Capacity Charges will apply. Contact Steve Peraza at 954-797-2209 for the amount due.

FIRE DEPARTMENT: No objection.

POLICE: No objection.



SECTION 27-613.3 (18)

(61) Open air cafe or outside seating (herein, "outdoor cafe") for a low turnover, sit-down restaurant or a high turnover, sit-down restaurant may be approved by the building and planning zoning and economic development department as an accessory use subject to the following additional regulations:

a. No person shall establish or operate an outdoor cafe within the city without obtaining a permit approved by the planning, zoning and economic development department. The review costs of the permit shall be charged and paid through the city cost recovery system. The permit application shall include the name, address, and telephone number of the applicant: The name and address of the restaurant; and a copy of a valid city local business tax receipt to operate a low turnover sit-down restaurant or high turnover sit-down restaurant. Architectural plans, drawn to scale, which accurately depict the layout and dimensions of the proposed outdoor cafe shall be submitted with the application and shall include a cafe layout plan, interior floor plan of the primary restaurant establishment to which the outdoor cafe is accessory, use of the adjacent business or property, proposed location, size, design, and number of tables, chairs, planters, umbrellas, and any other allowable object relating to the operation of the outdoor cafe, types of proposed landscaping, and pedestrian ingress and egress routes. The plan must meet all applicable access standards. A copy of the site plan, as approved in conjunction with the outdoor cafe permit, shall be maintained on the applicant's premises and shall be available for inspection by city personnel at all times.

b. Outdoor cafes shall be restricted to the frontage of the licensed primary restaurant use to which the permit is issued: except however, that the area of the permit may also extend from each side of the primary restaurant use to a maximum of fifty (50) feet of adjacent businesses' frontage during time period when the adjacent business is closed and only with written permission from the property owner and the affected businesses, and except for corner restaurants "frontage" may encompass the lineal footage of both external corners. When such written permission is cancelled in writing for the utilization of adjacent business frontage, the extended area shall no longer be permitted.

c. Outdoor cafes shall be conducted operated in such a way as to not interfere with the circulation of pedestrian or vehicular traffic on the adjoining streets, or sidewalks, or breezeways. There shall a minimum of four (4) feet of clear distance or fifty (50) percent of the sidewalk width (clear path) whichever is greater, free of all obstructions, in order to allow adequate pedestrian movement. In no event may recesses in the building frontage be used to satisfy this unobstructed width requirement. The outdoor cafe table corners may be rounded or mitered, in which event the required minimum clearance shall still be maintained. No tables, chairs, or umbrellas shall ever be placed within seven and one-half (7½) feet of a fire hydrant or standpipe, or within five (5) feet of a pedestrian crosswalk, curb cut, street, alleyway, utility pole, utility box, bike rack, bus bench, bus shelter, street furniture of any type, or in any other restricted area required by the approved permit and reflected in the approved plans. For purposes of minimum clear path, any object, regardless of whether it is associated with the outdoor cafe, shall be considered an obstruction, such as but not limited to: trees, sign poles, bus benches, etc. No area of an outdoor cafe shall be permitted upon city right-of-way, nor shall the design or layout of the outdoor cafe obstruct or interfere with sight triangles, vehicle

recovery areas, or encouraged pedestrian access to and from the right-of-way, or to and from public right-of-way street furniture or transportation facilities.

[d, e.Reserved.]

f. The consumption of food by patrons of the outdoor cafe shall be at tables only. Customers may be served by waiters or waitresses, or from counter service or self-service where the point of sale takes place inside the existing business. Point of sale food service from a pass-through window shall not be permitted. Outdoor menu boards and sandwich signs are prohibited.

g. The outdoor cafe shall not occupy an area of more than one hundred (100) percent of the total area of the restaurant to which it is accessory (regardless of whether the area is greater than the primary restaurant use frontage as conditionally permitted in subsection b. above. No additional parking is required for the accessory use; provided, however, that in the event the outside cafe area is larger than ten (10) percent of the area of the primary restaurant use, the restaurant parking requirement set forth in section 27-743(24), of this Code, shall be applicable to the area of the outside cafe.

h. Tables, chairs, and umbrellas shall be of high quality design, material and workmanship for aesthetics. They shall be made of metal or weather resistant and finished wood. Use of plastic products shall be discouraged. Photographs, drawings or manufacturers' brochures describing the appearance and dimensions of all proposed tables, chairs, and umbrellas shall be submitted with the application for review and approval by the city. Clear knee space under tables: Twenty-seven (27) inches in height, thirty (30) inches in width, nineteen (19) inches in depth. Tables shall have a maximum height of thirty-four (34) inches to the top of the table. Alternative equivalent seating accessible to disabled persons shall be provided when required by the city. In reviewing the design of proposed outdoor furniture for outdoor cafes, the director of planning, zoning and economic development, or his or her designee, shall consider the following factors:
   (i) The weight (i.e., gauge and construction) of the furniture, with particular emphasis regarding the extent to which it may be knocked down or blown around by wind exceeding thirty (30) miles per hour (given the summer storm and hurricane season);
   (ii) Whether the color and design of the proposed furniture is uniform with other existing furniture;
   (iii) Whether the external colors are painted or otherwise applied in a manner that the color of the furniture may, through ordinary wear and tear, become "chipped" in appearance;
   (iv) The proposed furniture's durability of construction and the extent to which it may become subject to wear, tear and breakage:
   (v) The proposed furniture's strength. Chairs should be able to support significant weight (i.e., 250 to 350 pounds) and tables should likewise be rigid and not flimsy or easily flexible; and
   (vi) The design of the street furniture should not appear to reflect minimal capital investment in terms of aesthetics. Only outdoor cafe equipment specifically shown on the approved plan, and not otherwise prohibited, shall be allowed in the permit area. The estimated chair count per table may vary within the prescribed area, provided that the overall number of chairs remains as approved.

Umbrellas and other decorative material shall be fire retardant or manufactured of fire resistant material. All umbrellas shall be reviewed and approved on a case-by-case basis by the planning, zoning and economic development director based on compatibility with the surrounding area, and the number and proposed location of such umbrellas. Cafe names may be printed on umbrellas. Letter and logos may not exceed six (6) inches in height. Minimum height for umbrellas shall be eighty (80) inches.

i. Fire sprinklers and extinguishers may be required within the permit area at the discretion of the fire department.

j. The outdoor cafe shall not be enclosed except that it may be covered with a canvas cover, or covered with the existing walkway covering (where the area is within walkway areas).

k. All kitchen and other equipment (e.g., bus service stations, remote menu computer stations, hostess stations) used to service the open air outdoor cafe area shall be located within the primary restaurant use. Only items reflected in the approved plan shall be permitted in the outdoor cafe area.

l. After the close of business of the primary restaurant use, outdoor cafe equipment shall not be allowed in the permit area or outside the structural confines of the building in which the primary restaurant use is located unless the primary restaurant use opens for business in the morning at the same hour as adjacent business or unless the restaurant is the sole occupant of a building, in which event the tables, closed umbrellas, and chairs may be permitted in the outdoor cafe area so long as they are arranged in an orderly manner and secured and stored so as to not interfere with the use of the walkway. During any period of a hurricane, tornado, or severe thunderstorm warning or watch, these items shall be brought inside the primary restaurant use. The plans submitted with the outdoor cafe permit application shall disclose adequate storage area within the primary restaurant use (or elsewhere within two hundred (200) feet of same) for these items.

m. The outdoor cafe shall be kept in a neat and orderly appearance and shall be kept free from refuse and debris. No food or drink preparation, storage, displays, including plastic, refrigeration apparatus, fire or fire apparatus or equipment (unless required by the fire department) shall be allowed outside the main licensed restaurant. No dirty dishes, garbage or food shall be stored outside of the primary restaurant use area. All refuse associated with the outdoor cafe shall be handled indoors at all times.

n. In approving an outdoor cafe, <u>the planning, zoning and economic development department may prescribe additional appropriate conditions and safeguards</u> which are designed to minimize noise, clutter, pedestrian congestion, and vehicular congestion.

o. A failure to comply at all times with the operating and permit requirements of this subsection may result in the <u>revocation of the permit without an opportunity to come into compliance by the planning, zoning and economic development director</u>. An outdoor cafe operating without a permit is a violation of this Code with each day constituting a separate offense.

AERIAL MAP

N

0 250 500 1,000 Feet

Legend

Parcels

City Limit

11 N. State Road 7

CASE # PM17-0003

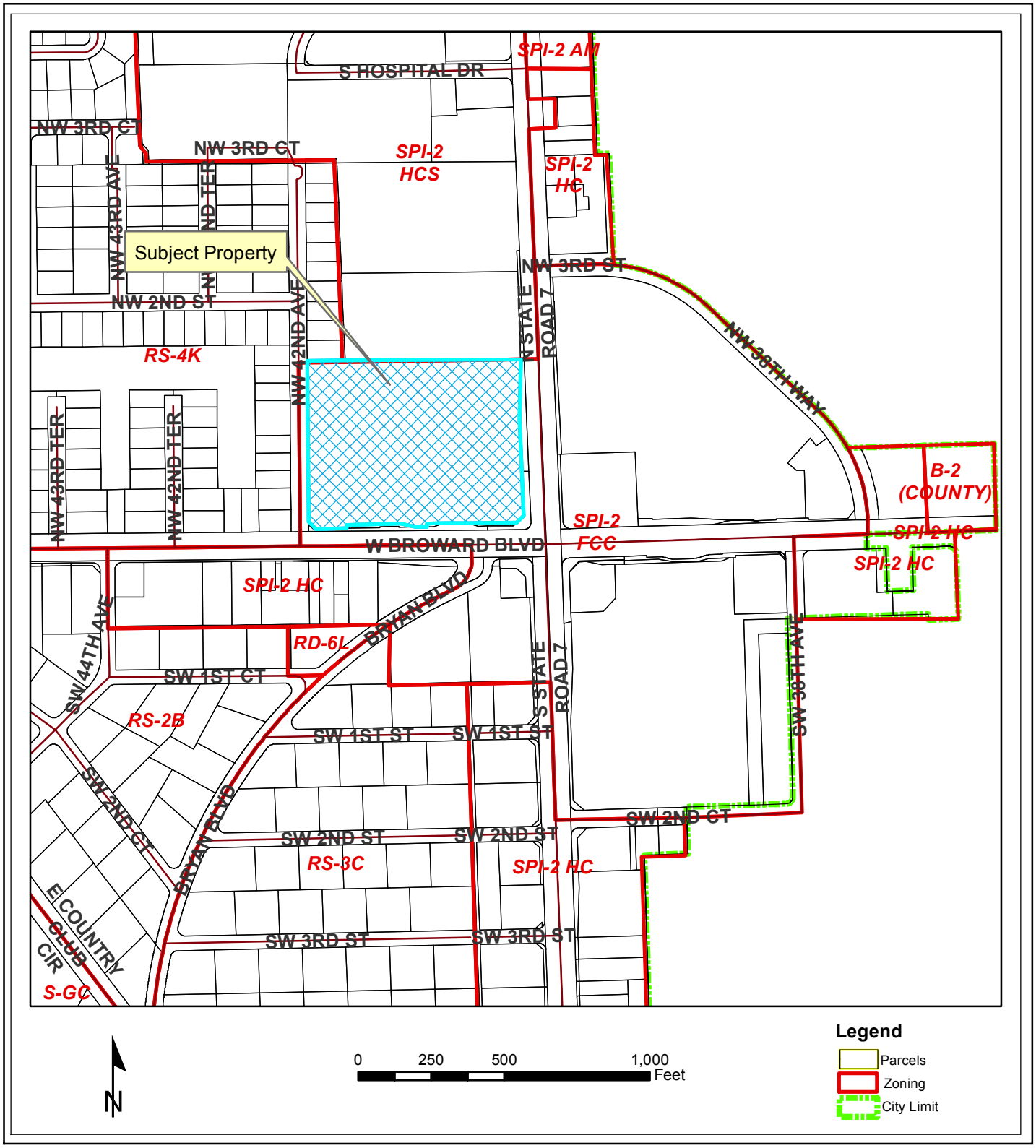
Plantation the grass is greener®

PLANNING, ZONING & ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA

4/18/17

ZONING MAP



11 N. State Road 7

CASE # PM17-0003

Plantation
the grass is greener®

PLANNING, ZONING & ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Code Lien Amnesty Program

Summary:

We recommend that City Council approve a resolution authorizing the implementation of a Code Lien Amnesty Program for a period of one year and six months, creating a mechanism to effectively deal with non-compliant properties and liens associated with them.

ATTACHMENTS:

Description	Upload Date	Type
Memo to Council	4/21/2017	Cover Memo
Resolution	4/21/2017	Resolution Letter
Exhibit 1	4/21/2017	Cover Memo

OFFICE OF THE MAYOR
Diane Veltri Bendekovic,
Mayor

ADMINISTRATION
Horace McHugh
Chief Administration Officer

Dawn Mehler
Administrative Analyst

Plantation
the grass is greener®

CITY COUNCIL
Peter S. Tingom, President
Lynn Stoner, President Pro Tem
Ron Jacobs
Jerry Fadgen
Mark Hyatt

MEMO

TO: **Mayor and Members of City Council**

FROM: **Horace McHugh, Chief Administration Officer**
Dawn Mehler, Administrative Analyst

MEETING DATE: **April 26, 2017**

SUBJECT: **Code Lien Amnesty Program**

REQUEST: **Approve Resolution**

ANALYSIS:

We recommend that City Council approve a resolution authorizing the implementation of a Code Lien Amnesty Program for a period of one year and six months, creating a mechanism to effectively deal with non-compliant properties and liens associated with them.

Issue:

As of 3/14/17, there are approximately 326 active outstanding code liens on 216 properties. (Exhibit 1)

Background:

On December 15, 2010, the City Council approved a Code Lien Amnesty Program. This Program began on February 1, 2011 and ended on July 28, 2011. This Program was approved with 229 properties with code liens that were uncollected and resulted in properties coming into compliance to take advantage of the Program. Therefore, we believe it may be an appropriate time to conduct another Code Lien Amnesty Program.

Code Enforcement, Landscape, Zoning, and the Building Departments issue code infractions in the City's neighborhoods that have a direct effect on property values, aesthetic vitality, life safety, property and quality of life for the residents. The mission of the Code Enforcement, Landscape, Zoning, and the Building Departments is first and foremost is to ensure that properties found in violation come into compliance.

The 216 properties that have received code infractions have accumulated fines, liens, penalties and other accruals over $23.7 million. Many of these have been outstanding for years and are considered uncollectable liens. In an effort to effectively bring these properties into compliance and address these liens, City Administration recommends a temporary Code Lien Amnesty Program that would ultimately require compliance as a prerequisite for participation in the program.

Analysis:

The proposed Code Lien Amnesty program would deal with outstanding Code, Landscape, Zoning and Building Liens by encouraging compliance, and releasing them based on the payment of a greatly reduced amount of the face value of the lien. While the program may result in some unclaimed revenue, it is intended to deal with those properties that continue to negatively impact the appearance of our community and the safety of our citizens. This will be ensured by a strict adherence to the program's conditions for participation.

The recommended terms of the Code Lien Amnesty Program:

1. The Code Enforcement Final Order or Supplemental Order/Claim of Lien must be dated before December 31, 2016. The application shall have been received and code lien paid in full by November 15, 2018.
2. The program will commence on May 1, 2017 and conclude on November 15, 2018.
3. Only the owner of the property or their legal representative can apply for the program (as verified by a recorded Certificate of Title or other official document.).
4. The application fee shall be $50.00 and the amount of the fine reduction for this program, will be as follows:

Code Lien Range	Customer pays	Example of a $500,000 code lien
$0 – $50,000	15%	$50,000 x 15% =$7,500
$50,001-$150,000	15% applicable on the first $50,000; plus 10% on amounts between $50,001 and $150,000	$100,000 x 10% = $10,000
$150,001-$300,000	15% applicable on the first $50,000; plus 10% on amounts between $50,001 and $150,000; plus 7.5% on amounts between $150,001 and $300,000	$150,000 x 7.5% =$11,250
$300,000 - over	15% applicable on the first $50,000, plus 10% on amounts between $50,001 and $150,000; plus 7.5% on amounts between $150,001 and $300,000; plus 5% on amounts over $300,000	$200,000 x 5%= $10,000 **Customer pays $38,750**

5. A participation agreement must be signed by the owner of the property or their legal representative.
6. Upon receipt of an application, the property admitted into the program must comply with the violation and be inspected for the purpose of determining whether the violations in the Code Enforcement Final Order or Supplemental Orders/Claim of Lien have been cured. The fact that there may be other violations that exist on the Property will not disqualify a site from further participating in this program.
7. If the property admitted into the program is deemed to be in compliance by Code Enforcement, the owner of the property or their legal representative must pay their reduced code lien amount on or before November 18, 2018.
8. If the reduced code lien amount is not paid, the code lien amount shall be reinstated.
9. Liens that are the result of nuisance abatement and contracted services are not eligible for the program.

Fiscal Impact:

It is difficult to estimate the fiscal impact of the proposed program. We expect those owners of homesteaded properties who are already in compliance will be most likely to take advantage of the amnesty program. The

program itself will be managed by Administration. We anticipate a net positive impact on the general fund, since these liens would have otherwise remain unpaid on our books, however the amount is hard to estimate.

RECOMMENDATION: Approve Resolution to authorize a Code Lien Amnesty Program to be implemented beginning May 1, 2017 and ending on November 15, 2018.

RESOLUTION NO. _____

A RESOLUTION OF THE CITY OF PLANTATION, FLORIDA AUTHORIZING AN AMNESTY PROGRAM TO ADDRESS CURRENT CODE ENFORCEMENT FINES, INCLUDING THOSE CREATING A LIEN UPON REAL PROPERTY; PROVIDING FOR CONDITIONS; PROVIDING FOR REDUCTION AMOUNTS; PROVIDING FOR A TERMINATION DATE; PROVIDING FOR SEVERABILITY; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, it is in the best interest of the City property experiencing code violations to be brought into compliance; and

WHEREAS, on December 15, 2010, the City conducted an Amnesty Program to clear code enforcement fines and liens, if compliance was achieved during the Amnesty period; and

WHEREAS, the City desires to conduct another Amnesty Program.

NOW, THEREFORE, BE IT RESOLVED that:

SECTION 1: The above recitals are true and correct and by this reference are hereby Incorporated into and made an integral part of this resolution.

SECTION 2: Authorization for Amnesty Program.

An Amnesty Program is hereby authorized to reduce Code Enforcement fines and liens, provided:

1. The real property is brought into compliance with the specified code violations.
2. An inspection must be conducted by City, or other means of confirming that the specified code violation is corrected.
3. An Authorization of Compliance must be prepared by City, attesting to the compliance and approving a reduction of the fine.
4. The compliance and payment of the reduced fine amount shall be fully completed by November 15, 2018, and;
5. The Code Enforcement matter will be considered closed and a Satisfaction or Release of Lien shall be filed in the Official Records only upon compliance with the stated violation and the full and complete payment of the reduced fine.
6. For properties and code violations that are not in compliance by the due date, and/or payment of the reduced amount is not received in full by November 15, 2018 will not qualify for the reduction allowed by the Program and at the expiration of the Program the original fine amounts will be effective.

SECTION 3: Amount of Fine Reduction

In administering the Program, the following reductions of fine, penalties and costs are allowed:

Code Lien Range	Customer pays
$0 – $50,000	15%
$50,001-$150,000	15% applicable on the first $50,000; plus 10% on amounts between $50,001 and $150,000
$150,001-$300,000	15% applicable on the first $50,000; plus 10% on amounts between $50,001 and $150,000; plus 7.5% on amounts between $150,001 and $300,000
$300,000 - over	15% applicable on the first $50,000, plus 10% on amounts between $50,001 and $150,000; plus 7.5% on amounts between $150,001 and $300,000; plus 5% on amounts over $300,000

SECTION 4: Satisfaction or Release of Lien.

The City shall execute a Satisfaction or Release of said Code Liens upon proof that the property is in compliance and receipt of payment of the reduced fine received by the end of the Program. In the event the reduced fine amount is not paid as agreed or later modified, the full and complete Code fine less any partial payments made shall be reinstated and the property owner shall not be entitled to participate in this Amnesty Program and will be required to seek relief as set forth in the Code of Ordinances.

SECTION 5: This Resolution shall take effect immediately upon passage by the City Council and signature by the Mayor.

PASSED AND ADOPTED by the City Council this _____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____

MAYOR

ATTEST:

_____

Susan Slattery, City Clerk

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing signed Resolution was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 2017.

_____
Susan Slattery, City Clerk

City of Plantation
Code Enforcement Liens Outstanding
February 28, 2017

Status	Amount	Homestead	Case Number	Customer ID	Customer Name	Customer Address	Folio Number	Department
Active	25.00	yes	CE16-02288	CARR0006	Carroll, Mack N III	1120 East Tropical Way	504110040070	Police
Active	25.00	Yes	CE16-02705	DERO0001	De Rolf, William Bradley	5840 SW 15th St	504114010620	
Active	152.25	Yes	CE14-00600	FLOR0032	Florvilus, Eliquias H/E Florvilus Romise	4650 NW 5 ST	504101033520	Police
Active	181.30	No	CE16-000394 / Proposal #60811	ROBI0013	Robinson, Kaethe Est	391 NW 134 Ave	504002031070	Police
Active	182.70	No	CE15-02681 / Proposal #53911	ROBI0007	Robinson, Kaethe Est	391 NW 134 Ave	504002031070	Police
Active	254.00	Yes	CE16-00123	MART0009	Martinez, Eileen	5800 SW 19 St	504114070030	Police
Active	267.60	Yes	CE13-00620	DIX00004	Dixon, Demetri & Pestritto, Madlyn	1024 Sw 49 Ter	504112110310	Police
Active	269.60	Yes	CE13-00592	PETI0001	Petion, Arios & Kenise	1120 Sw 50 Ave	504112080570	Police
Active	274.50	No	CE15-01071	HEYM0003	Heymann, Stacy	141 W Tropical Way	504110110060	Police
Active	274.50	Yes	CE14-02331	LOPE0002	Lopez, Ramon D	5432 SW 2 ST	0111 06 0110	Police
Active	312.00	No	CE15-03251	OCHI0001	Ochi Properties	261 SW 58 Ave, Plantation	504111080040	Police
Active	334.50	Yes	CE13-00569	FLOR0030	Florvilus, Eliquias H/E Florvilus Romise	4650 Nw 5 St	504101033520	Police
Active	350.00	No	CE17-00098	CAPU0001	Caputo, Shari & Marrapodi-bove, Francesco P	10531 NW 4th St	504106021200	Police
	350.00	Yes	CE16-03429	CICI0002	Cicione, Steven M & Mary T	730 E Plantation Circle	504104050420	Police
Active	350.00	Yes	CE16-02736	RIVE0010	Rivera, Jose & Rivera, Elba	321 NW 135th Ave	504002030660	
Active	381.70	No	Lot Mowing	MONT0004	Montero, Sonia E	890 SW 66 AVE	504110170010	Police
Active	401.60	No	CE13-02521	ZACH0001	Zachary, Peter A Est	9711 Sea Turtle Drive	504108060040	Police
Active	475.00	Yes	CE16-02134	MCCA0006	McCann, Ethel & McCann, Robert W	5471 SW 17th St	504114160290	Police
Active	492.80	No	Lot Mowing	DAVI0019	Davis, Berchel	308 NW 45 Ave	504101021200	Police
	500.00	No	CE17-00119	BORA0001	Boran CJ USA LLC Home Construction Sales	0 NW 135 Way	504002030020	Police
Active	503.10	Yes	CE13-02659	VEGA0002	Vega, Eduardo Dominguez & Rebeca	4043 SW 2 ST	504112010160	Police
Active	512.00	Yes	CE15-00103	ROCG0001	Roc, Georgy	514 NW 47 Ave	504101034040	Building
Active	520.00	Yes	CE15-03298	WADL0001	Wadley, Cochise & Lisa M.	1210 NW 76 Ave, Plantation	494133070340	Police
Active	616.55	Yes	CE13-01331	TIVO0002	Tivoli, Andrew	9811 SW 2 St	504108210190	Police
Active	675.75	No	Resolution #11365	DAVI0017	Davis, Berchel	308 NW 45 Ave	504101021200	Police
Active	688.00	No	Lot Mowing	EVAN0006	Evans, Mary Ruth	4764 Nw 5 St	504101033610	Police
Active	710.00	Yes	CE12-01376	MADO0001	Madoo, Andre	5732 Sw 1 St	504111050210	Police
	1,000.00	No	CE16-03583	PLAN0069	Plantation Merchandise Mart Inc	4313 West Sunrise Blvd	494136110030	Police
Active	1,000.00	Yes	CE16-01902	PUJO0001	Pujol, Julio	320 NW 134th Way	504002030910	Police
Active	1,000.00	Yes	CE16-03505	ROUM0003	Roumain, Deodelita K	270 NW 47th Ave	504101031810	Police
Active	1,070.10	No	CE15-02936	KELL0005	Kellum, Joy & Baldacchino, James	124 E Acre Drive	504102010190	Police
Active	1,205.30	No	CE12-00805	HEYM0002	Heymann, Stacy	141 W Tropical Way	504110110060	Police
Active	1,207.80	Yes	CE15-01378	LOPE0005	Lopez, Ramon D	5432 SW 2 ST	0111 06 0110	Police
Active	1,278.00	Yes	CE13-01823	BLUM0001	Blum, Melissa C & Steven M	660 Sandlewood Lane	504102100440	Police
Active	1,820.00	Yes	CE16-00310	FERR0002	Ferrarese, Nicholas J	5880 SW 14 Street	504114010480	Police
Inactive	1,993.96	Yes	3413-03-08	YOUN0008	Young, Maurice D	4053 SW 4 St	504112010450	Police
Active	2,172.60	No	CE13-01983	HEDL0002	Hedlund, R A & Susan N	1080 Nw 74 Way	494134140280	Police
Active	2,207.70	Yes	CE12-04035	FORB0003	Forbes, Garfield & Cecille Thompson	4796 NW 6 COURT	504101034810	Police
Active	2,250.00	Yes	CE16-02739	GUAD0005	Guadalupe, Migdalia Le	411 NW 135 Ave	504002030550	Police
Active	2,300.00	No	CE16-02757	PLAN0067	Plantation Forest Condo Assn Inc	7451 NW 16 St #B210	494134CK0540	Building
Active	2,332.80	No	CE10-02681	SPEN0008	Spence, Dwight	5901 W Broward Blvd	504102020090	Police
Active	2,536.00	No	CE13-02257	RONS0002	Ronshausen, Keith & Dina	1220 NW 76 Ave	494133070350	Police
Active	2,540.00	No	CE16-00313	JACA0017	Jacaranda Plaza Partners LLC	8281 W Sunrise Blvd	494133050010	Building
Active	2,556.80	Yes	CE15-00761	SWIT0001	Switalski, Joseph D	7451 NW 13th Court	494134250140	Police
Active	2,656.00	No	CE13-01063	HANN0002	Hannaway, Uaster	512 Jacaranda Way	504108040370	Police
Active	2,661.70	Yes	CE14-00337	HALL0006	Hall, Brian	1160 SW 49 TER	504112110390	Police
Active	2,806.85	No	Lot Mowing	SCHO0003	Schoeffer, F.J. & Dorothy M	324 Nw 42 Ave	504101110080	Police
Active	2,869.20	Yes	CE15-03321	APON0001	Aponte, Carlos	406 NW 68 Ave	504103BD1040	Building
Active	3,000.00	No	CE16-01890	NORT0007	NW 135th Way Tr Sorensen, Johnny	451 NW 135 Way	504002030360	Building
Inactive	3,386.57	Yes	2464-00-10	YOUN0006	Young, Maurice D	4053 SW 4 St	504112010450	Police
Active	3,476.60	No	CE14-01768	KELL0004	Kellum, Joy & Baldacchino, James	124 E Acre Drive	504102010190	Police
Active	3,500.00	No	CE16-03177	CSHT0001	CSH 2016-2 Borrower LLC	9381 NW 18th Manor	494132240950	Building
Active	3,609.60	Yes	CE13-01671	FRAN0009	Francis, Vernie H/E Davis, Yvette Fay	490 NW 46 AVE	504101190590	Police
Active	3,818.10	No	CE07-01965	MCIN0005	McIntosh, Michael	4097 SW 9 St	504112000070	Police
Active	3,829.10	No	CE13-02096	GALA0001	Galavis, Mariella	6828 NW 12 CT	494134050140	Police
Active	3,982.40	Yes	CE14-01404	PASZ0002	Paszko, Helen M H/E John M	7760 Nw 11 PL	494133071590	Police
Active	4,056.00	No	CE15-02636	SAVC0002	Savchuk, Juliia	1681 Nw 70 Ave #302	494134AH0400	Building
Active	4,343.68	Yes	0503-02-06	GUIL0001	Guilder, Albert	800 SW 72 Ave	504103110060	Police
Active	4,400.00	No	CE16-02555	IKUZ0001	Ikuzi LLC	4890 NW 2nd Court	504101030810	Building
Active	4,409.68	Yes	2783-04-01	WIDE0001	Wideman, Larry	4563 NW 3 St	504101021320	Police
Active	4,480.80	No	CE15-03163	MARI0002	Marino, Ramon Ulises & Marino, Gloria	8225 NW 9th Pl # 6	504104GB0060	Building
Active	4,600.00	No	CE16-03241	WEIR0001	Weir, Wesley W H/E Weir, Audrey D	801 Oleander Dr Plantation	504102070560	Building
Active	4,600.00	Yes	CE16-03354	WINK0001	Winkler, Donna & Gallego, Rudolfo	11300 NW 22nd St	494025150010	Building

Active	4,727.20	No	CE14-00348	NEYR0001	Ney, Ronald E III & Patricia A	924 SW 49 TER	504112110260	Police								
Active	4,750.00	No	CE16-03175	BEAU0003	Beauly LLC	6828 NW 12 CT	494134050140	Building								
Active	5,641.50	Yes	CE07-01978	BROW0012	Brown, Shelton	345 NW 49th Ave	504101032850	Police								
Active	5,771.70	No	CE06-01147	MERE0001	Merenda, Lucille	411 NW 135 Way	504002030280	Police								
Active	5,928.00	No	CE13-02256	RONS0003	Ronshausen, Keith & Dina	1220 NW 76 Ave	494133070350	Police								
Active	6,075.00	No	CE16-01392	WELL0014	Wells Fargo Bank NA	7460 NW 7 Court	504103230370	Police								
Active	6,107.40	No	CE15-03101	INSE0001	Insel, Patricia	12200 Tara Drive, Plantation	504012090010	Police								
Active	6,117.70	No	CE09-02687	SPEN0006	Spence, Dwight	5901 W Broward Blvd	504102020090	Police								
Active	6,288.00	No	CE13-00272	RLVW0001	RLV West Broward	3809 W Broward Blvd	504206020020	Police								
Active	6,533.01	No	CE13-01469	SUND0001	Sundance At Plantation, A Condominium	4271 NW 5 ST	504101AC0620 -1240	Police								
Active	6,619.54	No	CE07-02676	MITC0002	Mitchell Memorial Highway Church	4441 W Sunrise Blvd	494136300010	Police								
Active	6,700.00	Yes	CE16-01874	TOTH0001	Toth, Maria D Asin	471 N Pine Island Rd D304	504104BA0440	Building								
Active	6,900.00	Yes	CE16-02508	JOHN0018	Johnson, Thomas N & Shaw, Jacqueline	920 SW 69th Terrace	504110120120	Police								
Active	6,900.00	No	CE16-01810	LAXM0001	Laxmi Estates LLC	901 S State Road 7	504112290020	Building								
Active	7,038.40	No	CE13-00282	MOLI0004	Molina, Oscar A & Virginia	1291 SW 51 AVE	504113100530	Police								
Active	7,375.00	No	CE16-03176	BEAU0004	Beauly LLC	316 NW 45 Ave	504101021190	Building								
Active	7,400.00	No	CE16-02976	AGRE0002	AG Rev IV LLC	872 Garden Court	504102060210	Building								
Active	7,400.00	No	CE16-02948	AGRE0003	AG Rev IV LLC	872 Garden Court	504102060210	Building								
Active	7,400.00	No	CE16-02977	ALMU0001	Almusallam, Husain Ali & Alomar, Ilham Husian	10985 NW 2nd St	504106211670	Building								
Active	7,400.00	No	CE16-02273	PENN0001	Pennington, Leon Tyrone II	1241 NW 100th Way	494131050840	Police								
Active	7,400.00	Yes	CE16-02489	SCHN0002	Schnitman, Marcie H/E & Schnitman, Jeffrey	1801 NW 75 Ave 307	494134CA0350	Building								
Active	7,630.40	Yes	CE16-00488	FEDE0016	Federal National Mortgage Assn	830 NW 82 Ave 6	504104CD0060	Building								
Active	7,637.33	Yes	CE14-01971	HYAT0003	Hyatt, Mark & Katherine	11201 NW 14 ST	494036560020	Building								
Active	7,661.16	Yes	CE07-00136	WILL0002	Williams, Shawnderlan	4640 NW 7 DR	504101035520	Police								
Active	7,755.90	Yes	CE16-00002	MOBE0002	Moberg, Daniel & Mary Emma	12345 NW 11 ST	494036190030	Building								
Active	7,781.10	No	CE15-02599	SMAL0003	Small, Basil A	7960 Nw 4 Pl	504104210570	Police								
Active	7,799.00	Yes	CE11-02718	BLAN0001	Blanc, Johnny and Marie	224 NW 45 Ave	504101021230	Police								
Active	7,800.00	No	CE16-02403	LAXM0002	Laxmi Estates LLC	901 S State Road 7	504112290020	Building								
Active	7,930.40	No	CE16-01666	PERE0007	Perez, Nancy	116 SW 96 Ave 5-1	504108360050	Building								
Active	7,962.80	No	CE15-01369	ROBI0006	Robinson, Kaethe Est	391 NW 134 Ave	504002031070	Police								
Active	8,000.00		CE16-02477	SULL0004	Sullivan, Bhavani T	1960 SW 51 Terrace	504114210070	Police								
Active	8,315.40	No	CE16-00497	MICS0001	Micsa, Dumitru & Florica	8551 Gatehouse Rd	504109020160	Police								
Active	8,508.00	Yes	CE12-00693	DERI0002	Deriglos, H Nicolas	849 S State Road 7	504112000030	Police								
Active	8,583.80	No	CE15-00437	HEDL0003	Hedlund, R A & Susan N	1080 Nw 74 Way	494134140280	Police								
Active	8,688.20	No	CE13-00643	DERI0003	Deriglos, H Nicolas	849 S State Road 7	504112000030	Police								
Active	8,700.00	No	CE16-01819	MCCA0005	McCann, Michele R	1085 W Country Club Circle	504112120320	Police								
Active	8,710.80	Yes	CE11-02445	AMIR0001	Amiri, Soheila & Borojerdi, Pirooz	6121 Cypress Rd	504102030380	Building								
Active	8,835.20	No	CE07-01794	EVAN0003	Evans, Mary Ruth	4764 NW 5th Street	504101033610	Police								
Active	8,950.00	No	CE16-01904	MAIM0001	Maimon, Amos & Tibi, Daniel	11381 SW 4th St / 11381 N Mount Drive	504012010940	Police								
Active	9,087.80	No	CE12-03707	ARMB0001	Armbruster, Paul & Denise	2161 Nw 123 Ave	494025670110	Police								
Active	9,192.20	Yes	CE15-01540	CHAR0008	Charlemagne, Michel	610 Sea Turtle Way	504108060490	Police								
Active	9,209.60	Yes	CE16-01302	MCCA0003	McCann, Ethel & McCann, Robert W	5471 SW 17th St	504114160290	Police								
Active	9,362.40	Yes	CE14-01420	FLOR0035	Florvilus, Eliquias H/E	4650 NW 5 ST	504101033520	Police								
Active	9,725.31	No	CE14-01317	SUND0004	Sundance At Plantation, A Condominium	4271 NW 5 ST	504101AC0620-1240	Police								
Active	9,742.77	Yes	2666	ROBE0001	Roberts, Elizabeth	4760 NW 8 Dr	504101035720	Police								
Active	9,800.00	No	CE16-02226	JENK0003	Jenkins, Sandra	137 NW 115 Terrace	504001200160	Building								
Active	10,322.00	No	CE10-01391	EVAN0005	Evans, Mary Ruth	4764 NW 5 St	504101033610	Police								
Active	10,369.50	Yes	CE13-00148	AMAR0001	Amar, Roderick Roland Roland Amar TR	11850 NW 18 ST	494025031532	Police								
Active	10,650.00	No	CE16-02719	THEHV0002	The Village Townhouses-Jacaranda	591 North Universitiy Drive, Plantation	504104AM0010-0370	Building								
Active	10,689.60	No	CE14-00330	RYAN0002	Ryan Landmark LLC % Ana Wulwick	551 NW 42 Ave	504101240010	Police								
Inactive	10,694.28	Yes	CE06-00907	YOUN0010	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	10,700.00	No	CE16-02271	ALLS0015	All Superior Group LLC	420 W Lake Dasha Dr	504108040230	Building								
Active	10,718.40	Yes	CE13-02282	MOBE0001	Moberg, Daniel & Mary Emma	12345 NW 11 ST	494036190030	Building								
Active	10,850.00	No	CE16-02742	PLAN0068	Plantation Gateway Plaza LLC	205-251 S State Road 7 Plantation	504112270010	Building								
Active	11,100.00	No	CE16-01782	IACP0001	IAC Properties	236 S University Drive	504109030010	Building								
	11,500.00	No	CE16-03344	BROW0052	Broward Mall LLC	8000 W Broward Blvd 1101	504109050020	Building								
Active	11,576.97	Yes	CE06-03874	FEUL0001	Feula, John B	51 SW 94 Ter	504108DG0060	Building								
Active	12,000.00	No	CE16-02649	HSBC0005	HSBC BANK USA NA TRSTEE	11330 NW 28th Court	494025420010	Police								
Active	12,100.00	No	CE16-01108	SELE0002	Select Asset Cfat	1700 SW 75 Ter	504115070940	Police								
Active	12,200.00	No	CE16-01991	FEDE0017	Federal National Mortgage Assn	826 NW 81 Ter 8	504104BJ0080	Building								
Active	12,600.00	No	CE15-01635	WILM0001	Wilmington Sav Fund Society FSB	8204 NW 9th Ct #2	504104DM0020	Building								
Active	13,080.00	Yes	CE16-00716	PATT0006	Patterson, Brian	5700 Cypress Rd	504102011050	Building								
Active	13,800.00	No	CE16-02360	BANK0022	Bank of New York Mellon Tr Co	829 NW 81 Ave 6	504104BC0060	Building								
Active	13,972.00	Yes	CE16-01160	SHIR0002	Shirley, Cedric & Derald	821 South Fig Tree Lane	504111200410	Police								
Active	13,988.40	Yes	CE14-00363	SCHA0007	Schano, Marion	11790 NW 8 St	504001010300	Police								
Active	14,250.00	No	CE16-02470	ISLA0010	Islandia Condominium Assn Inc	827-847 NW 81st Terrace	504104BK0010-0110	Building								

Active	14,250.00	No	CE16-02774	ISLA0011	Islandia Condominium Assn Inc	826-840 NW 81st Terrace	504104BJ0010-0010	Building								
Active	14,875.00	No	CE16-02743	SIXH0001	660 Building LLC	660 N State Road 7 Plantation	504206290010	Building								
Active	15,190.50	No	CE11-00449	DAVI0016	Davis, Berchel	308 NW 45 Ave	504101021200	Police								
Active	15,196.20	No	CE16-01095	MCCA0004	Mccallum, John I	1301 NW 70 Way	494134160500	Police								
Active	15,488.00	Yes	CE12-00261	HUGH0001	Hughart, Mary Beatrice	1661 Nw 92 Ter	494132041240	Building								
Active	15,974.40	No	CE16-01162	BOSS0003	Boss Group Ministries	12050 NW 4 Court, Plantation	504001010375	Zoning								
Active	16,580.00	No	CE09-00050	RUBI0002	Rubino, Linda H/E Tornello, Marie	853 NW 80 Way	504104AG0050	Building								
Active	16,600.00	No	CE16-02645	YOUN0016	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	16,700.00	No	CE16-00099	GRAB0002	Graben Investments LLC	6814 NW 15 ST	494134020140	Police								
Active	17,331.40	No	CE14-01316	SUND0003	Sundance At Plantation, A Condominium	4251 NW 5 ST	504101AC0010-0610	Police								
Active	17,451.20	Yes	CE16-00389	LOPE0006	Lopez, Ramon D	5432 SW 2 ST	0111 06 0110	Police								
Active	17,817.60	No	CE06-01756	BRAV0002	Brave, Marie & M Cherizol	4730 NW 10 Ct #202-F	494136BF0100	Building								
Active	17,900.00	No	CE16-01523	NOEB0001	Noe, Bessie M	13040 NW 3rd St	504002040550	Police								
Active	18,486.00	No	CE08-03007	SPEN0004	Spence, Dwight	5901 W Broward Blvd	504102020090	Police								
Active	18,503.60	No	CE14-00462	NORR0001	Norris, Kathryn	5501 SW 3 CT	504111080820	Police								
Active	19,125.00	Yes	CE14-02339	OREF0002	Orefice, Alan D.	10451 NW 3rd St	504106021000	Police								
Active	19,250.00	Yes	CE16-00330	GLAS0003	Glasgow, Winston	5200 SW 5 St	504111160090	Police								
Active	19,600.00	Yes	CE16-01886	JOSE0011	Joseph, Marie Marthe & Pierre, Lemuel	401 NW 46th Ave	504101033440	Building								
Active	19,600.00	No	CE16-01694	LONG0005	Longsworth, Christopher	1401 SW 54 AVE	504114160030	Building								
Active	20,400.00	Yes	CE16-02119	COLA0001	Colas, Ernsy	6897 NW 13th St	494134040260									
Active	20,404.80	Yes	CE13-01024	RECU0001	Recupero, Andrew C	20 N Hibiscus CT	504102030040	Police								
Active	20,976.61	Yes	CE06-02041	LORI0001	Lorius, Elsie	4791 NW 2nd Ct	504101031190	Building								
Active	21,250.00	No	CE16-01120	ISLA0008	Islandia Condominium Assn Inc	841-855 NW 81st Ave	504104BD0010-0080	Building								
Active	21,250.00	No	CE16-01122	ISLA0009	Islandia Condominium Assn Inc	829-843 NW 82nd Ave	504104CG0010-0080	Building								
Active	21,453.95	Yes	CE10-02659	FABR0001	Fabrizio, Mark	4732 SW 11 Court	504112121050	Police								
Active	22,049.20	No	CE13-02186	LOPE0003	Lopez, Christine & Franklin	13451 NW 4 MNR	504002031740	Building								
Active	22,510.00	No	CE16-00308	CLZL0001	CLZ Leap Group LLC	443 S State Road 7 Plantation	504112030100	Building								
Active	22,800.00	No	CE16-01336	TRAN0004	Transatlantic Pine Island	1776 N Pine Island Rd 118	494132070010	Building								
Active	22,919.40	No	CE11-04201	DAVI0018	Davis, Berchel	308 NW 45 Ave	504101021200	Police								
Active	23,750.00	Yes	CE14-00785	MOWE0001	Mowers, Blaine A & Cardinale, Claudia	5431 SW 1 CT	504111060060	Police								
Active	23,874.40	No	CE16-01258	PLAN0065	Plantation Medical Plaza LLC	201 NW 70th Ave	504103540010	Building								
Active	24,354.40	Yes	CE16-01022	KNUD0001	Knudsen, Eri R.	1120 SW 47th Ave	504112120440	Building								
Active	24,418.40	No	CE11-02163	HEYM0001	Heymann, Stacy	141 W Tropical Way	504110110060	Police								
Active	24,900.00	No	CE15-00738	KIMO0002	Kim, Olivia	842 West Plantation Circle, Plantation	504104050980	Police								
Active	25,500.00	No	CE16-02480	CAPI0004	Capital Ventures International LLC	6000 SW 13th St Plantation	504114030200	Building								
Active	25,500.00	Yes	CE16-00834	WITH0004	Withers, W O & Shirley	4300 NW 3 Court, Plantation	504101050560	Police								
Active	25,600.00	No	CE16-00003	DREA0007	Dream Properties LLC	11300 NW 22nd St	494025150010	Building								
	25,700.00	No	CE16-01234	YOUN0017	Young, Maurice D	4053 SW 4 St	504112010450	Building								
Active	26,828.80	No	CE09-02864	POTT0004	Potts, Lowell W.	868 NW 81st Way	504104DJ0090	Building								
Active	27,075.00	No	CE15-02867	LAPI0001	Lapide, Bella R.	10133 NW 4 St	504106180220	Police								
Active	27,200.00	No	CE16-01934	BURR0001	Burrows, Arthur E Jr	4889 NW 2nd Place	504101031490	Police								
Active	27,250.00	No	CE16-02481	PASZ0004	Paszko, Helen M H/E John M	7760 Nw 11 PL	494133071590	Building								
Active	27,343.40	No	CE12-03468	DEUT0010	Deutsche Bank Natl TR CO TRSREE	324 East Acre Drive	504102010100	Police								
Active	27,450.00	Yes	CE15-03490	KOMA0007	Komarmy, John M	910 Sw 42 Ave	504112060100	Police								
Active	27,648.00	No	CE16-00342	SAND0009	Sandim Investment LLC	8111 West Broward Blvd	504104360015	Police								
Active	27,817.00	No	CE16-01163	ESPE0001	Esperanza Investments LLC	1411 NW 104th Ave	494131071660	Police								
Active	28,050.00	No	CE14-00695	RANK0001	Rankin, Samantha	13440 NW 5 St, Plantation	504002031900	Building								
Active	28,656.00	No	CE15-01639	DEUT0014	Deutsche Bank Natl TR CO TRSREE	10151 SW 3 St	504107050050	Building								
Active	28,800.00	No	CE15-03369	AJNI0001	Ajni LLC	551 N State Rd 7	504101250010	Building								
Active	28,800.00	No	CE16-00059	ZACH0004	Zachary, Peter A Est	9711 Sea Turtle Drive	504108060040	Building								
Active	28,858.00	No	CE13-01442	DUNC0003	Duncan, George & Debbie	4841 Nw 7 St	504101035940	Building								
Active	30,000.00	No	CE15-03477	WELL0013	Wells Fargo Bank NA	7460 NW 7 Court	504103230370	Police								
Active	30,724.00	No	CE16-01545	PRIM0003	Primestar Fund II Trs Inc	613 Ixora Lane	504102060430	Building								
Active	31,329.60	Yes	CE15-00036	MAUR0001	Maurer, Geoffrey & Maurer, Sharon D	811 SW 56 Terrace	504111220740	Police								
Active	31,500.00	No	CE15-01635	TOWN0018	Townhouses at Jacaranda	8204 NW 9th Ct #2	504104DM0020	Building								
Active	31,600.00	No	CE15-03326	FEDE0015	Federal National Mortgage Assn	8208 NW 8 Pl 4	504104DH0040	Building								
Active	31,800.00	Yes	CE15-02913	GOME0004	Gomez, Humberto	4810 SW 11 St	504112120770	Building								
Active	31,800.00	Yes	CE15-03183	PLAC0001	Placucci, Silvia & Carlos Eduardo	9760 SW 1 St	504108200060	Building								
Active	32,000.00	No	CE15-03079	TOWN0016	Townhouses at Jacaranda	857 NW 80 Tr	504104AA0010-0100	Building								
Active	32,000.00	No	CE15-03080	TOWN0017	Townhouses at Jacaranda	8233 NW 8 Ct	504104HC0010-0060	Building								
Active	32,775.00	No	CE15-02688	AUGU0002	Augustin, Jean	4875 NW 2 Place, Plantation	504101031500	Police								
Active	33,522.30	No	CE10-02217	ESPI0003	Espinosa, Genaro	11751 SW 1st St	504001370010	Police								
Active	34,125.00	Yes	CE15-02152	DEPA0001	Depanicis, Cynthia H/E	630 SW 55 Ave	504111180160	Police								
Active	34,163.20	Yes	CE14-01303	KARA0002	Karant, Glenn H Mary G	10679 NW 12 MNR	494131180590	Police								
Active	34,850.00	Yes	CE15-00174	TASI0001	Tasis, Elisabeth A	621 Sea Turtle Way	504108060450	Police								
Active	35,000.00		CE16-02353	SKYW0001	Sky Walkers PO LLC	7450 SW 20 St	504115071310	Police								

Active	35,200.00	Yes	CE14-01463	MONT0009	Montero, Candace	6150 SW 8 Court	504111220360	Police
Active	35,658.80	No	CE15-00057	SAND0008	Sandim Investment LLC	8111 West Broward Blvd	504104360015	Police
Active	36,300.00	Yes	CE16-00989	BURD0004	Burdick, Marina G Le	5361 SW 10 Ct	504111260610	Police
Active	36,500.00	No	CE15-00157	ZACH0003	Zachary, Peter A Est	9711 Sea Turtle Drive	504108060040	Police
Active	38,128.00	No	CE10-02704	WEIN0002	Weinstein, Diane H	780 East Plantation Circle	504104050470	Police
Active	39,150.00	Yes	CE14-01941	DORS0002	Dorsainvil, Agneau & Carline	5841 W Broward Blvd	504102020040	Police
Active	40,646.80	Yes	CE12-01476	DUNC0001	Duncan, George & Debbie	4841 Nw 7 St	504101035940	Building
Active	40,900.00	No	CE14-00168	LAKE0009	Lakeview North - A Condominium Inc	5260 NW 11th St	494135CD0010-0320	Building
Active	41,667.50	Yes	CE16-00677	LOPE0007	Lopez, Ramon D	5432 SW 2 ST	0111 06 0110	Police
Active	43,200.00	Yes	CE16-00331	GLAS0004	Glasgow, Winston	5200 SW 5 St	504111160090	Police
Active	44,282.40	No	CE12-03449	HEDL0001	Hedlund, R A & Susan N	1080 Nw 74 Way	494134140280	Police
Active	44,525.00	Yes	CE11-03581	KOMA0004	Komarmy, John M	910 Sw 42 Ave	504112060100	Building
Active	$ 45,747.60	No	CE13-02353	MOHA0003	Mohamed, Abdalla	890 NW 115 AVE	494036430100	Police
Active	47,200.00	Yes	CE15-02338	BREN0001	Brenke, Kathy	4889 NW 8 Court, Plantation	504101036860	Building
Active	47,700.00	Yes	CE15-02255	WITH0003	Withers, W O & Shirley	4300 NW 3 Court, Plantation	504101050560	Police
Active	48,000.00	No	CE16-02029	OTTI0002	Ottinot, Charlemagne & Willyn	700 NW 48 AVE	504101035480	Police
Active	48,550.30	No	CE10-02030	WILI0002	Wiliams, Fernando	613 Ixora Lane	504102060430	Building
Active	49,000.00	No	CE16-01784	RANJ0001	Ranjika, Nanayakkara	1333 S University Dr	504116080010	Building
Active	49,100.00	No	CE16-01266	AGRE0001	AG Rev IV LLC	872 Garden Court	504102060210	Police
Active	49,200.00	Yes	CE13-02147	MAGI0002	Magill, Derek & Magill, Theodore	5021 SW 10 St	504112080220	Building
Active	51,000.00	No	CE16-01142	DENT0003	Denton II LLC	411 NW 135 WAY	504002030280	Police
Active	51,200.00	No	CE16-00863	CMTR0001	CMTR INC	4302 W Broward Blvd	504112280011	Building
Active	51,930.00	No	1412-04-08	MCIN0001	McIntosh, Michael	4097 SW 9 St	504112000070	Police
Active	52,113.60	No	CE13-01246	KRAF0001	Krafft, Helene Est	845 NW 65 AVE	504103060230	Police
Active	52,800.00	Yes	CE15-01590	KOMA0006	Komarmy, John M	910 Sw 42 Ave	504112060100	Police
Active	52,800.00	Yes	CE14-00604	ROON0001	Roonoe, Bernie	12307 NW 2 Street	504001010663	Police
Active	53,208.20	No	CE10-03849	SPEN0009	Spence, Dwight	5901 W Broward Blvd	504102020090	Police
Active	53,696.00	No	CE09-02790	YEBE0001	Yebes, Jose Cevallos	320 NW 135th Way	504002030430	Police
Active	54,000.00	No	CE16-01588	TRAN0005	Transatlantic Pine Island	1776 N Pine Island Rd 119	494132070010	Building
Active	55,801.73	No	2632-00-02	EZRI0001	E Z Ride Auto Sales of Broward	246 S State Road 7	504207080010	Police
Active	56,300.00	No	CE14-01268	DEUT0012	Deutsche Bank Natl TR CO TRSREE	10701 Cleary Blvd 108, Plantation	504106AC0080	Building
Active	57,600.00	No	CE16-00836	EQRM0001	EQR-Midtown 24 LLC	700 SW 78 Ave	504109250081	Building
Active	57,959.80	Yes	CE11-00197	MILL0015	Miller, Kelly	1450 NW 100 Way	494131030960	Police
Active	58,350.00	Yes	CE15-03204	FORB0004	Forbes, Garfield & Cecille Thompson	4796 NW 6 COURT	504101034810	Police
Active	59,760.00	Yes	CE15-03520	DELU0004	Delucas, Frank T	11201 NW 19 Ct	494025870010	Building
Active	61,502.00	No	CE09-00763	SPEN0003	Spence, Dwight	5901 W Broward Blvd	504102020090	Police
Active	63,114.80	Yes	CE15-01378	LOPE0004	Lopez, Ramon D	5432 SW 2 ST	0111 06 0110	Police
Active	63,700.00	No	CE15-00961	THEV0001	The Village Townhouses-Jacaranda	591 North Universitiy Drive, Plantation	504104AM0010-0370	Police
Active	66,600.00	No	CE16-00382	GILF0001	Gil Family Investments LP	6950 Cypress Road 101	504103DH0010	Building
Active	67,800.00	No	CE13-01153	OSCE0001	Osceola Investment Properties LLC	101 SW 58 AVE	504111050050	Police
Active	68,500.00	No	CE16-00986	ISLA0007	Islandia Condominium Assn Inc	8228 NW 8th Place	504104GD0010-0060	Building
Active	69,600.00	No	CE10-00707	PERE0005	Perez, Ramona	7240 Nw 11 Ct	494134090310	Police
Active	69,842.41	Yes	0881-05-03	MINK0001	Minkowitz, Daniel	921 E Coco Plum Cir	504108270710	Building
Active	72,750.00	Yes	CE15-01771	MAYF0001	Mayfield, Beverly A	4736 NW 3 Court, Plantation	504101031850	Police
Active	74,000.00	No	CE16-01984	WILS0008	Wilson, Ruth	894 NW 97th Ave	504105272020	Building
Active	$ 75,620.10	No	CE13-01881	MOHA0002	Mohamed, Abdalla	890 NW 115 AVE	494036430100	Police
Active	79,748.00	No	CE13-00225	LAKE0008	Lakeshore Terr Rec Mgt Co	5275 NW 10 Ct	494135180011	Building
Active	80,607.00	No	CE11-00736	BONH0004	Bonheur, Enock	7480 NW 14 St	494134230360	Police
Inactive	83,880.84	Yes	3224-03-11	YOUN0009	Young, Maurice D	4053 SW 4 St	504112010450	Police
Active	87,133.30	Yes	CE10-00056	SAND0005	Sandoval, Wenceslao	4818 NW 8 St	504101036370	Police
Active	87,421.20	No	CE14-01059	OSCE0002	Osceola Investment Properties LLC	101 SW 58 AVE	504111050050	Building
Active	87,780.80	Yes	CE11-02655	FARR0003	Farrell, Patricia	1401 SW 54 AVE	504114160030	Building
Active	88,650.00	No	CE14-02469	CHAR0009	Charles, Anne M.	1641 NW 114 Ave, Plantation	494036010160	Building
Active	89,800.00	Yes	CE12-00880	LITT0004	Little John, Glenn C	5241 SW 18 Street	504114180530	Police
Active	92,175.00	No	CE15-01930	BOSS0001	Boss Group Ministries	12050 NW 4 Court, Plantation	504001010375	Police
Active	95,500.00	No	CE14-00681	MOSE0002	Moses, Ramona Ann & Moses, Farrah Sunita	9361 N New River Canal Road	504108100010	Building
Active	95,925.60	No	CE07-02030	BONH0002	Bonheur, Enock	7480 NW 14 St	494134230360	Police
Active	97,655.60	No	CE14-00961	ZACH0002	Zachary, Peter A Est	9711 Sea Turtle Drive	504108060040	Police
Active	99,000.00	No	CE13-02402	THEP0003	The Prieto Estate Limited Partnership	4302 W Broward Blvd	504112280011	Police
Active	99,900.00	No	CE15-03271	PASZ0003	Paszko, Helen M H/E John M	7760 Nw 11 PL	494133071590	Police
Active	100,526.40	No	CE12-02545	SAVC0001	Savchuk, Juliia	1681 Nw 70 Ave #302	494134AH0400	Building
Active	101,823.20	No	CE09-02735	MERE0002	Merenda, Lucille A.	411 NW 135 Way	504002030280	Police
Active	102,292.40	Yes	CE12-00723	BROW0047	Brown, Shelton	345 Nw 49 Ave	504101032850	Police
Active	104,050.00	No	CE09-03045	TOWN0007	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building
Active	104,050.00	No	CE09-03057	TOWN0008	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building
Active	104,050.00	No	CE09-03059	TOWN0010	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building

Active	104,050.00	No	CE09-03061	TOWN0011	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building								
Active	104,050.00	No	CE09-03044	TOWN0012	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building								
Active	104,050.00	No	CE09-03067	TOWN0013	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building								
Active	104,050.00	No	CE09-03068	TOWN0014	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building								
Active	104,050.00	No	CE09-03069	TOWN0015	Townhouses at Jacaranda	8201 NW 8 St	0104100010	Building								
Active	107,400.00	Yes	CE13-02692	YOUN0015	Young, Maurice D	4053 SW 4 St	504112010450	Building								
Active	112,906.80	No	CE09-03622	KIND0004	Kindred, Ricky & Ellis-Kindred, Angela	4725 NW 2 Pl	504101031690	Police								
Active	117,620.40	Yes	CE13-02487	ARTI0001	Artidiello, Roberto H/E Artidiello, Pedro	5040 W Broward Blvd	504112050170	Police								
Active	118,100.00	Yes	CE13-02174	YOUN0014	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	120,000.00	No	CE13-01945	OMEG0003	Omega Condominium #5 Inc	7400 NW 17 ST	494134BD0010-0300	Building								
Active	120,632.80	No	CE14-01672	STOK0001	Stokes, Larry	7480 NW 14 St	494134230360	Police								
Active	121,412.20	No	CE11-00617	WHEA0001	Wheatley, Rosalie	261 El Dorado Pkwy	504110060380	Police								
Active	121,900.00	No	CE10-01452	MCIN0004	McIntosh, Michael	4097 SW 9 St	504112000070	Police								
Active	123,700.00	Yes	CE13-01565	DORS0001	Dorsainvil, Agneau & Carline	5841 W Broward Blvd	504102020040	Police								
Active	124,000.00	No	CE16-01059	BOSS0004	Boss Group Ministries	12050 NW 4 Court, Plantation	504001010375	Building								
Active	128,100.00	No	CE10-01288	WILI0001	Wiliams, Fernando	613 Ixora Lane	504102060430	Police								
Active	131,100.00	Yes	CE15-01431	DAVI0020	Davis, Rosa	4809 NW 8th Ct	504101036960	Police								
Active	131,100.00	Yes	CE13-01309	LORI0002	Lorius, Elsie	4791 NW 2nd Ct	504101031190	Police								
Active	132,816.00	Yes	CE12-02821	FABR0003	Fabrizio, Mark	4732 SW 11 Court	504112121050	Police								
Active	134,450.00	No	CE09-02272	SHAK0003	Shakir, Khalid	324 E Acre Dr	504102010100	Building								
Active	135,050.00	Yes	CE09-01804	ROBE0003	Roberts, Elizabeth	4760 NW 8 Dr	504101035720	Police								
Active	136,584.60	No	CE09-02112	EVAN0004	Evans, Mary Ruth	4764 NW 5 St	504101033610	Police								
Active	141,350.00	No	CE08-02472	BONH0003	Bonheur, Enock	7480 NW 14 St	494134230360	Police								
Active	145,216.80	Yes	CE06-03047	SOBE0003	Sobel, Diana	4040 SW 2 St	504112010370	Building								
Active	146,120.80	No	CE10-01453	MCIN0003	McIntosh, Michael	4097 SW 9 St	504112000070	Police								
Active	148,900.00	No	CE12-02717	SMAL0002	Small, Basil A	7960 Nw 4 Pl	504104210570	Police								
Active	149,300.00	No	CE12-03875	CORD0001	Cordova, Alexis & Delgado, Lydia Etal	5301 Pine Ter	504102080190	Police								
Active	150,100.00	Yes	CE12-01136	MCDO0004	McDonald, Kimberlee J	5660 Cypress Rd	504102011040	Building								
Active	153,009.50	Yes	CE08-02583	CAMA0001	Camano, Manuel Le	9061 NW 15 St	494132041000	Building								
Active	157,900.00	Yes	CE12-02627	FABR0004	Fabrizio, Mark	4732 Sw 11 Ct	504112121050	Police								
Active	158,000.00	No	CE12-02583	DEUT0009	Deutsche Bank Natl TR CO TRSREE	324 East Acre Drive	504102010100	Police								
Active	164,108.00	No	CE07-02059	SANC0003	Sanchez, Jose	421 NW 135 Way	504002030300	Building								
Active	167,100.00	No	CE12-01733	BOOT0002	Boothe, Samuel & Eulalee	842 W Plantation Circle	504104050980	Police								
Inactive	171,050.00	Yes	CE07-02595	YOUN0011	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	171,800.00	Yes	CE11-04087	PASZ0001	Paszko, Helen M H/E John M	7760 Nw 11 PL	494133071590	Building								
Active	180,500.00	Yes	CE12-00546	JOSE0010	Joseph, Rosile	125 Nw 45 Ave	504101021410	Police								
Active	181,900.00	Yes	CE11-02561	KISS0001	Kissoon, Stefanie J & Calab C	4830 Nw 7 St	504101035140	Building								
Active	192,000.00	Yes	CE15-02668	MCDO0005	McDonald, Kimberlee J	5660 Cypress Rd	504102011040	Police								
Active	192,900.00	No	CE13-01408	OTTI0001	Ottinot, Charlemagne & Willyn	700 NW 48 AVE	504101035480	Police								
Active	199,000.00	Yes	CE11-01928	EDWA0004	Edwards, Darlyce Wilson	715 NW 47 Ter	504101035380	Police								
Active	199,000.00	No	CE10-03520	NEIL0001	Neil, Yvonne E	9819 NW 1 Ct	504105AB0090	Building								
Active	202,800.00	No	CE12-03386	DENT0001	Denton II LLC	411 NW 135 WAY	504002030280	Building								
Active	204,500.00	Yes	CE11-01901	EDWA0003	Edwards, Darlyce Wilson	715 NW 47 Ter	504101035380	Police								
Active	222,056.00	No	CE10-03990	CADI0006	Cadillac Fairview Fla Inc	8201 NW 8 STREET	504104100010	Building								
Active	250,200.00	No	CE13-01562	GRAB0001	Graben Investments LLC	6814 NW 15 ST	494134020140	Police								
Active	254,700.00	No	CE12-02444	MONT0003	Montero, Sonia E	890 SW 66 AVE	504110170010	Police								
Active	259,000.00	Yes	CE11-01678	TIVO0001	Tivoli, Andrew	9811 SW 2 St	504108210190	Police								
Active	261,800.00	No	CE14-02223	MIRO0001	Miron One LLC	1380-1400 NW 65 Ave	494134310010	Police								
Active	279,400.00	No	CE13-00429	DUNC0002	Duncan, George & Debbie	4841 Nw 7 St	504101035940	Police								
Active	288,100.00	Yes	CE12-03403	KOMA0005	Komarmy, John M	910 Sw 42 Ave	504112060100	Police								
Active	296,392.60	No	CE07-00469	SPEN0005	Spence, Dwight	5901 W Broward Blvd	504102020090	Police								
Active	296,400.00	Yes	CE08-01835	FINK0003	Finklea, Everett	613 NW 135 Ter	504002200030	Landscape								
Active	302,900.00	No	CE14-01563	MIRO0002	Miron One LLC	1360 NW 65 Ave	494134310020	Police								
Active	308,436.00	No	CE08-00318	SHAK0001	Shakir, Khalid	324 E Acre Dr	504102010100	Building								
Active	314,597.00	No	CE07-03374	RODR0004	Rodriguez, Bibiana & German	5661 SW 2 Ct	504111080310	Building								
Inactive	320,600.00	Yes	CE07-03570	YOUN0012	Young, Maurice D	4053 SW 4 St	504112010450	Building								
Active	325,936.80	No	CE08-02986	MAYM0001	May, Martha	4040 SW 5 St	504112030310	Building								
Inactive	331,600.00	Yes	CE07-03497	YOUN0013	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	350,363.70	No	CE09-03887	ORWI0001	Orwin, John	760 East Acre Dr	504102090070	Police								
Active	356,747.00	No	CE07-00734	SCHO0002	Schoeffer, F.J. & Dorothy	Parcel adjacent to 324 NW 42 Ave	504101110080	Police								
Active	360,956.00	Yes	CE06-03540	MORG0002	Morgan-Grant, Nassoma	800 Garden CT	504102060270	Landscape								
Inactive	432,595.20	Yes	2464-00-10	YOUN0007	Young, Maurice D	4053 SW 4 St	504112010450	Police								
Active	448,062.40	No	CE09-03625	DAVI0010	Davis, Rosa	4809 NW 8th Ct	504101036960	Police								
Active	522,400.00	Yes	CE09-02422	OREF0001	Orefice, Alan D.	10451 NW 3rd St	504106021000	Police								
Inactive	970,037.00	Yes	0203-01-04	DELB0001	Delbrouck, Georges	5321 W Broward Blvd	504102011230	Police								
Inactive	3,158,390.00	Yes	0330-04-05	VERM0001	VERMUT, DANIEL & SUSAN**	829 NW 81 Way	504104CA0080	Police								

23,752,057.30

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Charter Amendments Recommended after the first November General Election

Summary:

Public Hearing and First Reading of an ordinance pertaining to the subject of City of Plantation's Charter; amending or clarifying provisions of the Charter relative to elections that are appropriate in view of prior referenda and new case law; amending provisions of the Charter to ensure that existing elected officials' terms of office expire when newly elected officials' terms of office commence in cases where increased time under State Law is utilized to certify November General Election results; providing clarifying Charter amendments relating to the computation of time; amending the City Charter to add provisions allowing candidates to pay fees and assessments after a qualifying period expires in the event such fees and assessments are not paid during the qualifying period as a result of a banking error; clarifying the Charter elections qualifying requirement for residency; making other miscellaneous amendments to the Charter and Code to implement the foregoing; providing a savings clause; and providing an effective date therefor.

Prepared By:

Susan K. Slattery

ATTACHMENTS:

Description	Upload Date	Type
Cover Memo	4/20/2017	Cover Memo
Proposed Ordinance	4/20/2017	Ordinance

MEMORANDUM

To: Mayor and Members of the City Council

From: Donald J. Lunny, Jr., City Attorney

Date: March 1, 2017

Re: Charter Amendments Recommended after 1st November General Election

Copies: Horace McHugh, Chief Administrative Officer
Susan Slattery, City Clerk

This Ordinance is sponsored by the Administration and City Clerk.

This past general election was the City's first November general municipal election. The following is noted:

1. Under the current provisions of the City Charter, the terms of all elective offices subject to a general election expire at noon, three (3) days after the date of the general election. Thus the former terms for Council Groups 3, 4, and 5 expired at noon, November 14, 2016. Given the date the election results were certified, the subsequent terms of office for newly elected Council Members for Council Groups 3, 4, and 5 began November 21, 2016. This resulted in no Council branch of government for a gap period of 7 days.

   The revised Ordinance establishes the expiry of terms, and the commencement of subsequent terms, at noon, the day after the general election results are certified. This will allow the City to have continuity of governance. See Lines 396-403.

2. In Wright v. Miami Gardens 2016 WL 4945053 (Fla. Sept. 15, 2016), the Florida Supreme Court determined that the application of a statutory provision requiring fees to be paid in a qualifying period was unconstitutional where a candidate tendered checks for the fees and assessments during the qualifying period, the checks were returned after the qualifying period expired because of a banking error, and the statutory provision at issue required the candidate to be disqualified. The Court ordered that the candidate's name be placed on the ballot and if this could not occur, that a Mayoral special election be called.

   Plantation's Charter provisions also require that the qualifying fee and election assessments be paid during the qualifying period or disqualification results. In light of the new case, a new provision is recommended that will allow payment after the

qualifying period runs if a check is returned for any reason; however, the amount(s) due must be paid within 48 hours. See Lines 340-347.

3. During the election, a question arose as to the Charter's meaning concerning the residency requirement, and whether a person could qualify for office if he or she has a vacation residence or "second home" outside of Plantation. A provision is recommended to aid the Charter's reader and clarify that the word "resident" in this context requires that a person seeking to qualify for office must maintain his or her permanent home (i.e. domicile) in Plantation. Thus, having a vacation or second home would not disqualify a person from running for an elective office. See Lines 231-239.

4. There is a provision for the computation of time in the City's Code of Ordinances, but no such provision appears in the City's Charter. Given various deadlines stated in days and hours in the Charter and Code, including, but not limited to those concerning elections, a new provision is recommended to assist the reader in ascertaining how time is computed. A provision has also been added to aid the Charter reader in understanding how the one year residency requirement time period is computed. The rules proposed appear in lines 423-517.

5. Finally, additional edits were made to clarify the Charter and capitalize letters of certain identified positions as requested last year (after the Council's preferences in this regard were communicated to the Code Editor and accepted by the Code Editor).

If any of you have any questions or comments, please do not hesitate to contact Mr. McHugh, Ms. Slattery or me.

This Ordinance is now ready for consideration at First Reading as a Legislative Item.

DJL:tw
[813]9002-11001,v3

Ordinance No. _____

AN ORDINANCE PERTAINING TO THE SUBJECT OF CITY OF PLANTATION'S CITY CHARTER; AMENDING OR CLARIFYING PROVISIONS OF THE CHARTER RELATIVE TO ELECTIONS THAT ARE APPROPRIATE IN VIEW OF PRIOR REFERENDA AND NEW CASE LAW; AMENDING PROVISIONS OF THE CHARTER TO ENSURE THAT EXISTING ELECTED OFFICIALS' TERMS OF OFFICE EXPIRE WHEN NEWLY ELECTED OFFICIALS' TERMS OF OFFICE COMMENCE IN CASES WHERE INCREASED TIME UNDER STATE LAW IS UTILIZED TO CERTIFY NOVEMEBER GENERAL ELECTION RESULTS; PROVIDING CLARIFYING CHARTER AMENDMENTS RELATING TO THE COMPUTATION OF TIME; AMENDING THE CITY CHARTER TO ADD PROVISIONS ALLOWING CANDIDATES TO PAY FEES AND ASSESSMENTS AFTER A QUALIFYING PERIOD EXPIRES IN THE EVENT SUCH FEES AND ASSESSMENTS ARE NOT PAID DURING THE QUALIFYING PERIOD AS A RESULT OF A BANKING ERROR; CLARIFYING THE CHARTER ELECTIONS QUALIFYING REQUIREMENT FOR RESIDENCY; MAKING OTHER MISCELLANEOUS AMENDMENTS TO THE CHARTER AND CODE TO IMPLEMENT THE FOREGOING; PROVIDING A SAVINGS CLAUSE; AND PROVIDING AN EFFECTIVE DATE THEREFOR.

WHEREAS, by virtue of City Ordinance No. 2480 and the Referendum of November 4, 2014, the Charter of Plantation was changed so as to have the City's municipal general elections to coincide with the Federal, State, and County general elections in November of certain years; and,

WHEREAS, City Ordinance No. 2500 and the Referendum of November 4, 2014 also amended the City Charter, effective November 4, 2014, so as to require a residency of one-year in the City before being able to qualify for a City elective office in a general or special municipal election; and,

WHEREAS, City Ordinance No. 2544 was enacted to implement the aforesaid Charter changes; and

WHEREAS, the City has experienced its first November general election and certain other amendments have become necessary to further implement the aforesaid referenda, clarify the Charter, and conform the Charter to the Florida Supreme Court's opinion in Wright v. City of Miami Gardens, 2016 WL 4945053 (Fla. Sept. 15, 2016);

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF PLANTATION, THAT:

Section 1. Charter Section 7 is hereby amended to read as follows:

"Section 7. - Qualifications of Mmayor and Mmembers of the Ceouncil; filling vacancies in elected office; special elections; general elections.

A. The Mmayor and Mmembers of the Ceouncil shall be residents of the Ceity for a minimum of one (1) year prior to the opening of the qualifying period for any general or special election, and have the qualifications of electors in the municipal elections of the Ceity. When any Mmayor or Mmember of the Ceouncil shall cease to possess the qualifications required herein, he or she shall forthwith forfeit his or her office.

B. Whenever the Mmayor or any Mmember of the Ceouncil shall cease to be the Mmayor or a Mmember of the Ceouncil for any reason prior to the expiration of his or her term of office, including (but not limited to) he or she no longer being a resident of the City, his or her successor to fill out the unexpired term shall be elected by and at a special municipal election to be called by the Mmayor, the Ppresident of the Ceouncil (acting as Mmayor in the absence or disability of the Mmayor), or the Ppresident Ppro Ttem (acting as Mmayor in the absence or disability of the Mmayor and Ppresident of the Ceouncil), within forty-five (45) days of the date of vacancy, unless: (i) said vacancy occurs within less than six (6) months prior to the next general municipal election for such vacant elected office, in which case a majority of the Ceouncil may appoint a person to fill out the unexpired term, with the Mmayor voting in case of a tie, in the event that it is not the Mmayor's office that is vacated, or (ii) ~~otherwise provided in~~ Paragraph C (4) applies ~~or Subsection F below~~.

C. Special Elections called for Vacancies in office.

(1) The date the special election is held, and the qualifying period therefor, shall be determined by the elected officer calling such election (as identified in subsection 7B above) in consultation with the Supervisor of Elections. While the election's date may be after the forty-five (45) day deadline for the election's call, the special election shall be conducted as soon as conveniently possible.

(2) Paragraph C (1) above states that the qualifying period for special elections shall be determined by the elected officer calling the election in consultation with the Supervisor of Elections. This Paragraph C (2) shall apply only when the Supervisor of Elections can reasonably accommodate the deadlines specified in this Paragraph C (2).

The filing date for candidates in such special election shall open at 12:00 noon on any workday and close at noon on the second calendar day

following such opening day [except when the qualifying period is extended for a two (2) calendar day period a provided below]. Unless the Supervisor of Elections requires additional time, the qualifying period shall close no later than 12:00 noon on the thirty-first calendar day preceding the date set for said special election. Whenever at the end of the foregoing special election qualifying period for election to an elected municipal office only one (1) qualified candidate has filed for such elected office, such candidate shall be declared the winner of such election to such office. The prior sentence shall not apply to any elective office (either M~~m~~ayor or a seat on the C~~c~~ity C~~c~~ouncil) in a special election qualifying period conducted pursuant to this Paragraph C (2) where:

(i) the day before the qualifying period expires there are one or more qualified candidates; and,

(ii) on the last day of the qualifying period all candidates who had previously qualified, or all but one (1) of the candidates who had previously qualified, withdraw from qualification; and,

(iii) only one (1) person qualifies or remains qualified for election on the last day of the qualifying period.

Where the preceding sentence is applicable, the special election qualifying period for such affected elective office only (either M~~m~~ayor or the seat number of the seat on the C~~c~~ity C~~c~~ouncil) shall be extended one time for two (2) calendar days so as to expire at noon on the second day, and if at the end of such qualifying period extension there is only one (1) person who has qualified for such elective office, such candidate shall be declared the winner of such election to such office. In the event a two (2) calendar day extension of the special election qualifying period would cause same to expire on a Saturday, the qualifying period extension shall not be further extended to the next business day, and instead, the office of the C~~c~~ity C~~c~~lerk shall be open on such Saturday through the end of the qualifying period. In the event a two (2) calendar day extension of the special election qualifying period would cause same to expire on a Sunday, the qualifying period extension shall not be further extended to the next business day, and instead, the office of the C~~c~~ity C~~c~~lerk shall be open on such Sunday as well as the Saturday immediately preceding such Sunday. In the event a two (2) calendar day extension of the special election qualifying period would cause same to expire on a legal holiday, the qualifying period extension shall not be further extended to the next business day, and instead, the O~~o~~ffice of the C~~c~~ity C~~c~~lerk shall be open on such legal holiday through the end of the qualifying period.

In computing any period of time prescribed by this Paragraph C (2), the day of the act, event, or default from which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included. The word "day" shall always mean a calendar day unless specifically stated otherwise. The provisions of Charter Section 26 as they apply to computing time periods stated in days shall not apply.

(3) For special municipal elections where the provisions of Paragraph C (2) do not apply, whenever at the end of such special municipal election qualifying period for an elected municipal office only one (1) qualified candidate has filed for such elected office, such candidate shall be declared the winner of such election to such office.

(4) In the event the vacancy in office occurs more than six (6) months prior to the next general municipal election for such vacant elected office, and no person remains qualified as a candidate for the vacant office at the expiration of the qualifying period for the called special election, then a majority of the C~~c~~ouncil may appoint a person to fill out the unexpired term, with the M~~m~~ayor voting in case of a tie, in the event that it is not the M~~m~~ayor's office that is vacated.

(5) A special election conducted to fill a vacancy in elective office shall be voted upon city-wide (because the elections for each of the City's elected officers are at large), and the individual receiving the highest number of votes in said special election shall obtain such office.

D. General Elections.

(1) The qualifying period for the City's general municipal elections shall be determined in accordance with state law by the Supervisor of Elections inasmuch as the City's general municipal elections coincide with the Federal and State and County elections in November of 2016, and every two years thereafter. For November general municipal elections, Chapter 75-350, Laws of Florida (as modified by Chapters 76-336, 77-507, 81-349, 2004-443, 2005-318, and 2012-253, Laws of Florida), currently requires that the qualifying period be the same as that for county offices as provided in Section 99.061(2), Florida Statutes. In the absence of state law in the future or a contrary Charter provision, the qualifying period for the City's municipal general elections shall be the same as that for county offices.

(2) Whenever at the end of a general municipal election qualifying period for an elected municipal office only one qualified candidate has filed for such

elected office, such candidate shall be declared the winner of such election to such office.

E. Candidate Vacancies in General and Special Elections.

(1) Whenever two (2) or more qualified candidates qualify in either a general or special election for an elected municipal office and, following the close of the qualifying period, a vacancy or vacancies occur in such qualified candidates caused by death, withdrawal, or removal from the ballot of a qualified candidate, leaving fewer than two (2) candidates for such elective office, then except as provided in ~~the next sentence~~ Paragraph E (3) below (and in Charter Section 17 when applicable), the M~~m~~ayor, P~~p~~resident of the C~~c~~ouncil (acting as M~~m~~ayor during the absence or disability of the M~~m~~ayor), or the P~~p~~resident P~~p~~ro T~~t~~em (acting as M~~m~~ayor in the absence or disability of the M~~m~~ayor and P~~p~~resident of the C~~c~~ouncil) within seventy-two (72) hours of the date of such candidate vacancy shall call a special election; provided however, that the remaining qualified candidate for such elected office shall not have to pay a new qualifying fee and shall be deemed to be already qualified for candidacy for such elected office in the ensuing special election.

(2) The date of the special election provided for in this Paragraph E, ~~and~~ the qualifying periods therefor, and what happens if only one (1) person remains qualified as a candidate at the end of the qualifying period(s), shall be determined in accordance with Paragraphs C (1) and C (3) above [or if the Supervisor of Elections can reasonably accommodate the provisions of Paragraph C (2), then Paragraph C (2) above].

(3) In the event the candidate vacancy occurs in a special election called as a result of a vacancy in office and such candidate vacancy occurs within less than six (6) months prior to the next general municipal election for such office, the majority of the C~~c~~ouncil may then appoint a person to fill out the vacant seat's unexpired term, with the M~~m~~ayor voting in case of a tie, in the event it is not the Mayor's office that is vacated. ~~The date of the special election provided for herein and the qualifying periods therefor shall be determined in accordance with Paragraphs C (1) and C (3) above [or if the Supervisor of Elections can reasonably accommodate the provisions of Paragraph C (2), then Paragraph C (2) above].~~

(4) In the event the candidate vacancy occurs in a general election and a special election cannot be conducted on or before the date of the general election for other elective offices in the same general election cycle, then the office affected shall be deemed vacant as of the date the other elected officials elected in the same general election cycle assume their office, and the procedures set forth in this Charter for special elections called to fill

the unexpired term of a vacant office shall apply. ~~The appointment privileges if no person remains qualified as a candidate at the expiration of the qualifying period for such called special election shall be determined consistent with Paragraph C (4) above.~~

F. Section 17 of this Charter contains additional requirements for becoming candidates for elective office and controlling provisions for being adjudicated not qualified ~~by reason of lack of residency~~ for the reason that a person was not a resident of the City for a minimum of one (1) year prior to the opening of the qualifying period. For purposes of qualification, being a resident of the City means having one's legal residence (i.e. domicile) within Plantation, which is the place where such person has fixed his or her abode with the intention of making such place his or her permanent home. A person may have one or more residence, but only one permanent home (which permanent home must be within Plantation). Charter Section 26 contains provisions concerning the computation of time for the one (1) year period.

~~G. In computing any period of time prescribed by this Section of the Charter, the day of the act, event, or default from which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included. The word "day" shall always mean a calendar day unless specifically stated otherwise.~~"

Section 2. Charter Section 16 is hereby amended to read as follows:

"Section 16. Registration of voters, city-conducted special elections that do not involve a Plantation elective office.

A. To entitle a resident of Plantation to vote in the City's elections, he or she shall possess the qualifications of an elector and register in the registration books and records of the Supervisor of Elections of Broward County, Florida, in the manner and at such times and places as provided by law for registering of electors to vote in state and county elections. The City of Plantation, in municipal elections, shall use the same voting precincts, or parts thereof, lying within the corporate limits of the City of Plantation, as are now or may hereafter be designated for use in Broward County, State of Florida, elections.

B. Nothing herein contained shall be construed to require the governing body of Plantation to adopt the polling places of the County of Broward for certain municipal special elections that do not involve an election of a Plantation elected official, and which are solely conducted by the City without the assistance of the Supervisor of Elections of Broward County, Florida, and the governing body shall continue to have such power to establish the polling places and designate the location of the polling places for the holding of such municipal special elections.

C. The Supervisors of Elections of Broward County shall be entitled to reasonable compensation for services rendered to the City in connection with municipal elections.

D. The Ceity Celerk of the City of Plantation shall be the official representative of the Ceity and the Ceity Ceouncil in all transactions with the Supervisor of Elections of Broward County, Florida; in relation to matters pertaining to the use of the registration books and records herein mentioned for holding such municipal elections.

E. For special elections that do not involve an election of a Plantation elected official (i.e. referenda), and which are solely conducted by the City without the assistance of the Supervisor of Elections of Broward County, Florida, and in the absence of an agreement by the Supervisor and Ccity Celerk with respect to a different procedure, not later than 10:00 a.m. on the day immediately preceding the date of such special municipal election, the Supervisor of Elections of Broward County, Florida, shall deliver into the custody of the Ceity Celerk of the City of Plantation the Broward County registration books and records showing the registration of the duly qualified electors entitled to vote in such municipal special elections of the City of Plantation, and the Ccity Celerk shall henceforth be responsible for safeguarding such books and records until the Ceity Celerk shall return them to the Ssupervisor of Elections ~~registration~~ of Broward County, Florida, not later than 5:00 p.m. on the day following the date of such municipal election.

F. Nothing contained in this Charter shall be construed to confer any jurisdiction, power or authority in the Board of County Commissioners of Broward County over the holding and conducting of any municipal election of the City of Plantation, Florida. All present Charter provisions of the City of Plantation, Florida, pertaining to electors and elections not in conflict herewith shall remain in full force and effect.

G. The City of Plantation, Florida, is hereby authorized to use voting machines in the holding of all Ceity elections, general or special, if it so desires."

Section 3. Charter Section 17 is hereby amended to read as follows:

"Section 17. - Procedure for becoming candidates; payment of the municipal qualifying fee.

(a) The name of any elector of the Ceity shall be submitted by the Ceity Celerk to the Supervisor of Elections to be printed upon the ballot after:

(1) the elector has provided proof of residency in the city for a minimum of one (1) year prior to the opening of the qualifying period in the form of an Affidavit made under oath; and,

(2) has paid to the Ccity Celerk a qualifying fee in the amount of two hundred fifty dollars ($250.00) for a seat on the Ceity Ceouncil and five hundred dollars ($500.00) for the Ooffice of Mmayor, which shall be non-refundable at the end of the qualifying period; and,

(3) has paid the state election assessment and all other state fees and assessments as may be provided by law (which shall not be refundable by the City, but which may or may not be refundable by the State after the City remits such funds to the State); and,

(4) has filed with the Ceity Celerk his or her written acceptance of such candidacy, which acceptance shall state that, if elected, the elector will qualify and serve in such office during the term for which he or she is elected.

(b) It shall be the duty of the Ceity Celerk forthwith, on the paying of said qualifying fee, state assessments and fees, submission of such residency affidavit, and filing of such acceptance, to make and deliver to such candidate a written certificate acknowledging the receipt of said qualifying fee, state fees and assessments, residency affidavit, and such acceptance, and stating the date of receipt of the foregoing. The payment of said qualifying fee, state election assessments and fees, and the filing of such residency affidavit and acceptance (together with any other oaths or forms then required of municipal candidates by state law) for general and special elections must be done during the applicable qualifying period. If a candidate pays a fee or assessment (or both) by check before the end of the qualifying period and the check is returned for any reason, then in the absence of an applicable controlling statutory provision, the City Clerk shall immediately notify the candidate and the candidate shall, the end of the qualifying period notwithstanding, have forty-eight (48) hours from the time notification is received to pay the required sum with a cashier's check purchased from funds of the campaign account. Failure to pay the required amounts as provided in this paragraph (b) shall disqualify the candidate.

(c) In the event a Court of competent jurisdiction should determine in a final adjudication that a candidate was not a resident of the City for a period of one year prior to the opening of the qualifying period, then:

(i) in the event the candidate was elected unopposed, the candidate's elective office shall be deemed vacated as of the date of the final adjudication; or

(ii) the Ceity Celerk shall request the Supervisor of Elections to remove the candidate's name from the ballot (if such final adjudication occurs after the qualifying period closes but before the election and there were more than three (3) candidates for the elective office before such final adjudication); or,

(iii) the C~~c~~ity C~~c~~lerk shall request the Supervisor of Elections to cancel the election (if such final adjudication occurs after the qualifying period closes but before the election and there were only two (2) candidates for the elective office before such final adjudication), and the remaining candidate shall be deemed to be elected unopposed.

(iv) In the event the Court should Order relief different that one of the above, the City shall comply with same.

(d) Should the amount of the qualifying fee be judicially declared invalid in the future as being in conflict with or preempted by state law pertaining to candidates for elective offices in municipalities as such may be amended, then the qualifying fee for such elective municipal offices shall be those qualifying fees set forth in such conflicting or preemptive state law.

(e) See Charter Subsections 7F and Section 26 B.

~~(e) In computing any period of time prescribed by this Section of the Charter, the day of the act, event, or default from which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included. The word "day" shall always mean a calendar day unless specifically stated otherwise.~~"

Section 4. Charter Section 19 is amended and clarified as follows:

"Section 19. Elections.

The terms of office for the M~~m~~ayor and M~~m~~embers of the C~~c~~ouncil shall be four (4) years, except as provided below and for transitioning the City's general elections from March to November.

Each elected official shall take office at noon on the ~~third day after the date of his or her election, unless the election results for such election are not certified within such three (3) day period, in which event: (i) he or she shall take office at noon on the~~ day after his or her election results are certified. ~~, and (ii)~~ ~~t~~The term for the office to which he or she is elected shall ~~nevertheless~~ ~~expire at noon on the third day after the date of the next ensuing general election for such office as provided below~~ expire at noon the day after the next ensuing general election results for the office in question (Mayor or Council Group) are certified.

The M~~m~~ayor shall be elected on ~~the second Tuesday in March, 2015, and then shall be elected on~~ the first Tuesday after the first Monday in November, 2018, and then shall be elected every four (4) years thereafter. The O~~o~~ffice of M~~m~~ayor shall be voted upon city-wide because the election is at large, and the individual receiving the highest number of votes shall obtain office.

The Ceity Ceouncil shall be divided into five (5) groups to be voted upon city-wide because each such group election is at large, as follows: Groups One (1) and Two (2) shall be elected ~~on the second Tuesday in March, 2015, and then shall be elected~~ on the first Tuesday after the first Monday in November, 2018, and every four (4) years thereafter, and the individual receiving the highest number of votes in each group shall obtain office. Groups Three (3) and Four (4) and Five (5) shall be elected on the first Tuesday after the first Monday in November, 2016, and every four (4) years thereafter, and the individual receiving the highest number of votes in each group shall obtain office."

Section 5. Section 26 of the City Charter is amended to create a general Charter provision concerning how time is computed, and so as to read as follows:

"Section 26. Computation of Time.

A. The following rules of construction apply in computing time periods specified in any provision of this Charter, the Code of Ordinances, an uncodified ordinance, or a resolution, which does not specify a method of computing time:

1. *Period Stated in Days or a Longer Unit.* When the period is stated in days or a longer unit of time:

a. exclude the day of the event that triggers the period;

b. count every day, including intermediate Saturdays, Sundays, and legal holidays; and

c. include the last day of the period, but if the last day is a Saturday, Sunday, or legal holiday, or falls within any period of time extended through an order of the Governor, County Mayor, or Mayor under Chapter 252, Florida Statutes (or the Mayor or public safety directors under Article XII, Chapter 2, Plantation City Code) which pertain to Emergency Management, the period continues to run until the end of the next day that is not a Saturday, Sunday, or legal holiday, or which does not fall within any period of time extended through an order of the Governor, County Mayor, or Mayor under Chapter 252, Florida Statutes (or the Mayor or public safety directors under Article XII, Chapter 2, Plantation City Code) which pertains to Emergency Management.

2. *Period Stated in Hours.* When the period is stated in hours:

a. begin counting immediately on the occurrence of the event that triggers the period;

b. count every hour, including hours during intermediate Saturdays, Sundays, and legal holidays; and

c. if the period would end on a Saturday, Sunday, or legal holiday, or falls within any period of time extended through an order of the Governor, County Mayor, or Mayor under Chapter 252, Florida Statutes (or the Mayor or public safety directors under Article XII, Chapter 2, Plantation City Code) which pertains to Emergency Management, the period continues to run until the same time on the next day that is not a Saturday, Sunday, or legal holiday, or which does not fall within any period of time extended through an order of the Governor, County Mayor, or Mayor under Chapter 252, Florida Statutes (or the Mayor or public safety directors under Article XII, Chapter 2, Plantation City Code) which pertains to Emergency Management.

3. *Period stated in days less than seven days.* When the period stated in days is less than 7 days, intermediate Saturdays, Sundays, and legal holidays shall be excluded in the computation.

4. *"End of Last Day" Defined.* Unless a different time is stated in a provision of this Charter, the Code, an ordinance, or a resolution, the last day ends:

a. where an electronic act, response, filing, or submission is solely required, at midnight; and

b. where an electronic act, response, filing, or submission is not solely required, when the City Clerk's Office is scheduled to close.

5. *"Day" defined.* A day shall mean a calendar day.

6. *"Next Day" Defined.* The next day is determined by continuing to count forward when the period is measured after an event and backward when measured before an event.

7. *"Legal Holiday" Defined.* Legal holiday means:

a. the day set aside by Section 110.117, Florida Statutes, for observing New Year's Day, Martin Luther King, Jr.'s Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, or Christmas Day, and

b. any day observed as a holiday by City Hall being closed as designated by the City's governing body.

8. *Additional Time after Service by Mail or E-mail.* When a person or other respondent may or must act within a specified time after "service" and service is made by mail or email, 5 days are added after the period that would otherwise expire under Paragraph A1 or A2."

B. For the purposes of measuring the period of time which comprises a minimum of one (1) year prior to the opening of the qualifying period, the last day of the period shall be the date of the calendar day prior to the day the qualifying period opens, and the first day of such period shall be the calendar day before the same date of the prior year. For example, if qualifying for an election opens on June 20, 2016. The last day of the minimum one (1) year period shall be June 19, 2016 and the first day shall be June 18, 2015. To qualify, a person must be a resident of the City as defined by Charter Subsection 7 F during this minimum one (1) year time frame.

. . .

Section 6. Should any section, paragraph, sentence, clause, phrase or other part of this Ordinance be declared by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of this Ordinance as a whole or any portion or part thereof, other than the part so declared to be invalid.

[INTENTIONALLY LEFT BLANK]

PASSED ON FIRST READING by the City Council this____ day of _____, 2017.

PASSED AND ADOPTED ON SECOND READING by the City Council this ____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____
MAYOR

ATTEST

_____
CITY CLERK

APPROVED DATE

REQUESTED BY:_____

DEPT. OK:_____

ADMIN. OK:_____

ATTY. OK:_____ 3/1/2017
AS TO FORM ONLY

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing signed Ordinance was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 2017.

_____
Susan Slattery, City Clerk

[811]9002-11001, v7

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Resolution approving the Pool Parcel Site Data Record located at 11311 N.W. 4th Street (PP16-0029)

Summary:

A RESOLUTION APPROVING THE POOL PARCEL SITE DATA RECORD.

ATTACHMENTS:

Description	Upload Date	Type
Staff Report	4/19/2017	Backup Material
Aerial Map	4/18/2017	Backup Material
Zoning Map	4/18/2017	Backup Material
Resolution	4/18/2017	Resolution Letter

Plantation
the grass is greener®

Planning, Zoning & Economic Development Memorandum

DATE: April 26, 2017

TO: Mayor and Members of the City Council

THRU: Danny A. Holmes, AICP
Planning, Zoning & Economic Dev Director

FROM: Gayle Easterling, AICP
Senior Planner

I. PROJECT SUMMARY

A. Project Name: Pool Parcel – Site Data Record / PP16-0029

B. Request: Site Data Record approval

C. Recommendation: **APPROVAL** subject to conditions noted in Section V. B. of this staff report

II. APPLICATION SUMMARY

A. Owner: Nathaniel and Nancy Pool

B. Agent: Mikki Ulrich

C. Location: 11311 N.W. 4th Street (See Exhibit B)

D. Size: 2.34 acres (gross)

E. Folio: 504001440010

F. Legal Description: See Exhibit C

G. Future Land Use Plan Designation, Current Zoning and Use of Subject Property:

Existing Use & Zoning		Future Land Use Map
Subject Property: Vacant land zoned RS-1EP (Estate District)		Estate (1 du/ac)
North:	Single Family Residential zoned RS-1EP (Estate District)	Estate (1 du/ac)
South:	NW 4th Street, Single Family Residential zoned RS-1EP (Estate District)	Estate (1 du/ac)
East:	North Old Hiatus Road	Right-of-way
West:	Single Family Residential zoned RS-1EP (Estate District)	Estate (1 du/ac)

III. BACKGROUND

A. Subject Property

The subject property is zoned RS-1EP and consists of 2.19 net acres. The site was previously platted as Parcel B of the Carosella Plat (Plat book 93, page 43). The site is bound by single family residential uses to the north and west, NW 4th Street to the south, and Old Hiatus Road to the east. Refer to Exhibits A and B for the location and zoning maps.

B. Synopsis

The applicant requests site data record approval to subdivide Parcel B of the Carosella Plat into two single family home lots with Site 1 having a lot size of approximately 46,976 square feet and Site 2 having a lot size of approximately 47,372 square feet. The proposed lot sizes meet the minimum lot size requirements of the RS-1EP zoning district and are consistent with the Estate (1 du/ac) Residential land use designation on the adopted Future Land Use Map.

C. Applicable Criteria

The applicant has met the requirements of Article II Section 20-16 to Section 20-20, Site Data Records, of the City Code.

IV. PROJECT ANALYSIS, CRITERIA AND FINDINGS

A. Comprehensive Plan Considerations

The proposed residential use is consistent with the Estate (1 du/ac) land use designation.

B. Zoning Considerations

The applicant is fulfilling the site data record approval requirement to submit a record prepared by a licensed Florida land surveyor, approved by the City Review Committee and the legal department.

C. Citizen Comments

The Planning, Zoning, & Economic Development Department has not received any written citizen comments nor phone calls about this application.

D. Concerns, Issues and other Pertinent Information

Code Violations: There are no violations issued for the subject site at this time.

V. RECOMMENDATIONS:

A. Boards and Committee Recommendations:

August 23, 2016 Development Review Committee - **NO OBJECTION**

B. Staff Recommendation:

APPROVAL of the request for site data record approval.

PLANNING AND ZONING:
Planning:
1. Payment of a local Impact Fee in the amount of **$2,667.21** (adjusted annually) is required for **each** lot prior to permitting (Sec. 19-85).

Zoning: No objection.
Landscape: Staff has no objection to the Site Data Record.
ENGINEERING DEPARTMENT: No objection.
1. Please refer to Engineering Department approval letter dated April 13, 2017.

TRAFFIC CONSULTANT: No objection.
BUILDING DEPARTMENT: No objection.
FIRE DEPARTMENT: No objection as to this site data record request.
POLICE DEPARTMENT: No objection.
UTILITIES: No objection.
1. No structures are allowed in utility easements

O.P.W.C.D: No comment.
WASTE MANAGEMENT: No comment.

VI. CONCLUSION:

The applicant is requesting site data record approval to subdivide Parcel B into two single family lots which meet the minimum lot size requirements of the RS-1EP zoning district and are consistent with the land use designation on the adopted Future Land Use Map.

Staff has reviewed the proposed request and recommends **APPROVAL**.

VII. EXHIBITS:

A. Aerial Photograph
B. Zoning Map
C. Legal Description
D. Resolution

EXHIBIT A

AERIAL MAP

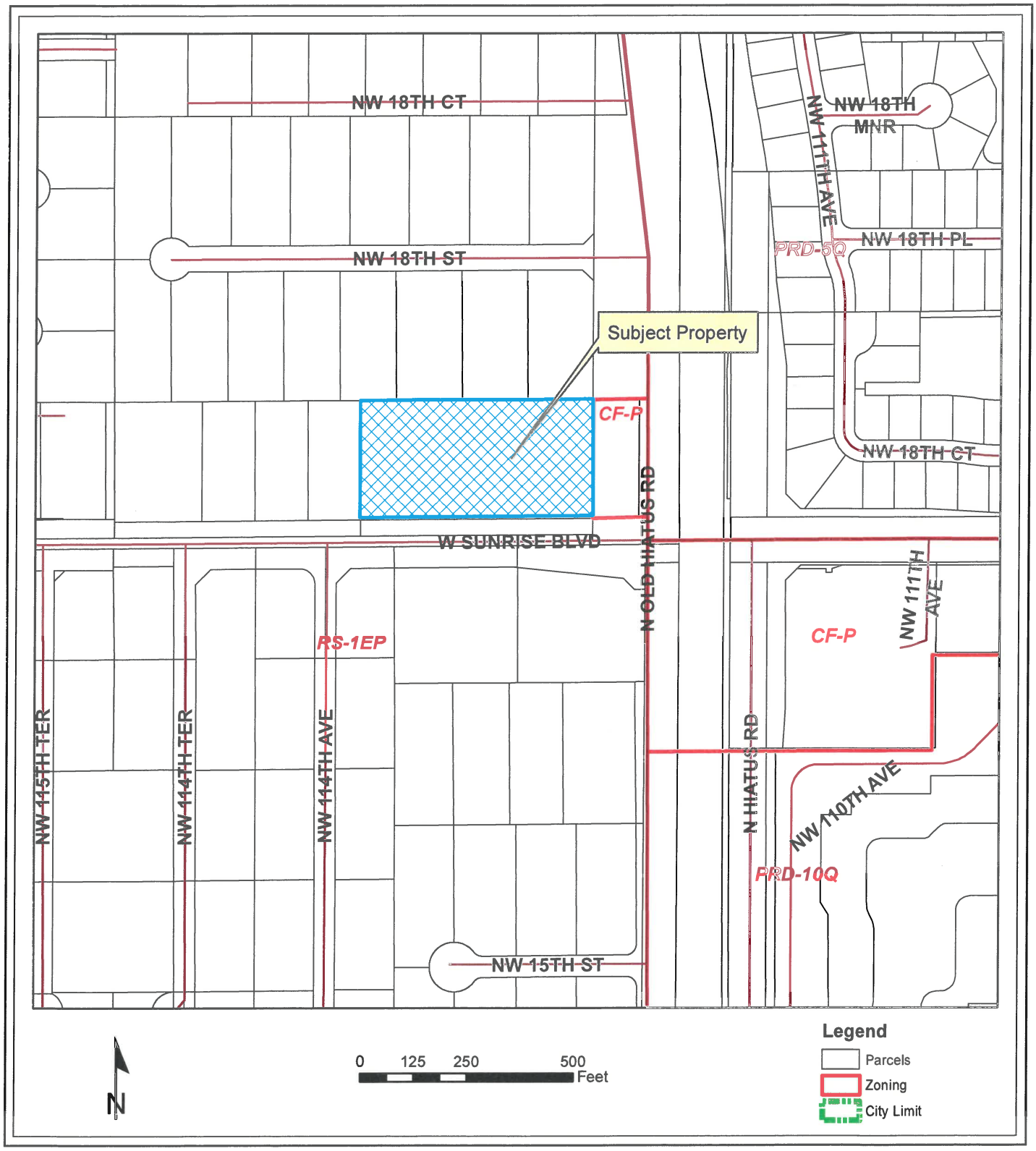
11311 NW 4th Street

CASE # PP 16-0029

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

ZONING MAP



11311 NW 4th Street

CASE # PP 16-0029

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

EXHIBIT C
Legal Description

DESCRIPTION:

Parcel B, CAROSELLA PLAT, according to the plat thereof, as recorded in Plat Book 93, Page 43 of the Public Records of Broward County, Florida.

EXHIBIT D

RESOLUTION NO.

A RESOLUTION APPROVING THE POOL PARCEL SITE DATA RECORD.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, THAT:

SECTION 1: The attached Pool Parcel site data record, consists of approximately 2.34 gross acres and 2.19 net acres after right-of-way dedications associated with NW 4th Street, more or less, and as prepared by Deni Land Surveyors, Inc., be and the same is hereby approved with the proviso that no building permit shall issue thereon until a local concurrency review is completed (and until all items, if any, identified in such local concurrency review are adequately addressed), all requirements of the City's approval are met, all utility charges are paid, and upon the further limitation that no Certificate of Occupancy shall be granted on any such building permit unless and until the structure to be C.O.'d is connected to the City water system, if the City water system is available at that time. This site data record shall not be recorded.

PASSED AND ADOPTED by the City Council this _____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____
MAYOR

ATTEST:

_____
CITY CLERK

[322]9002-11002

APPROVED DATE

REQUESTED BY:_____

DEPT. OK:_____

ADMIN. OK:_____

ATTY. OK: Quentin E. Morgan
AS TO FORM ONLY

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing document was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 20___.

_____

Susan Slattery, City Clerk

AERIAL MAP

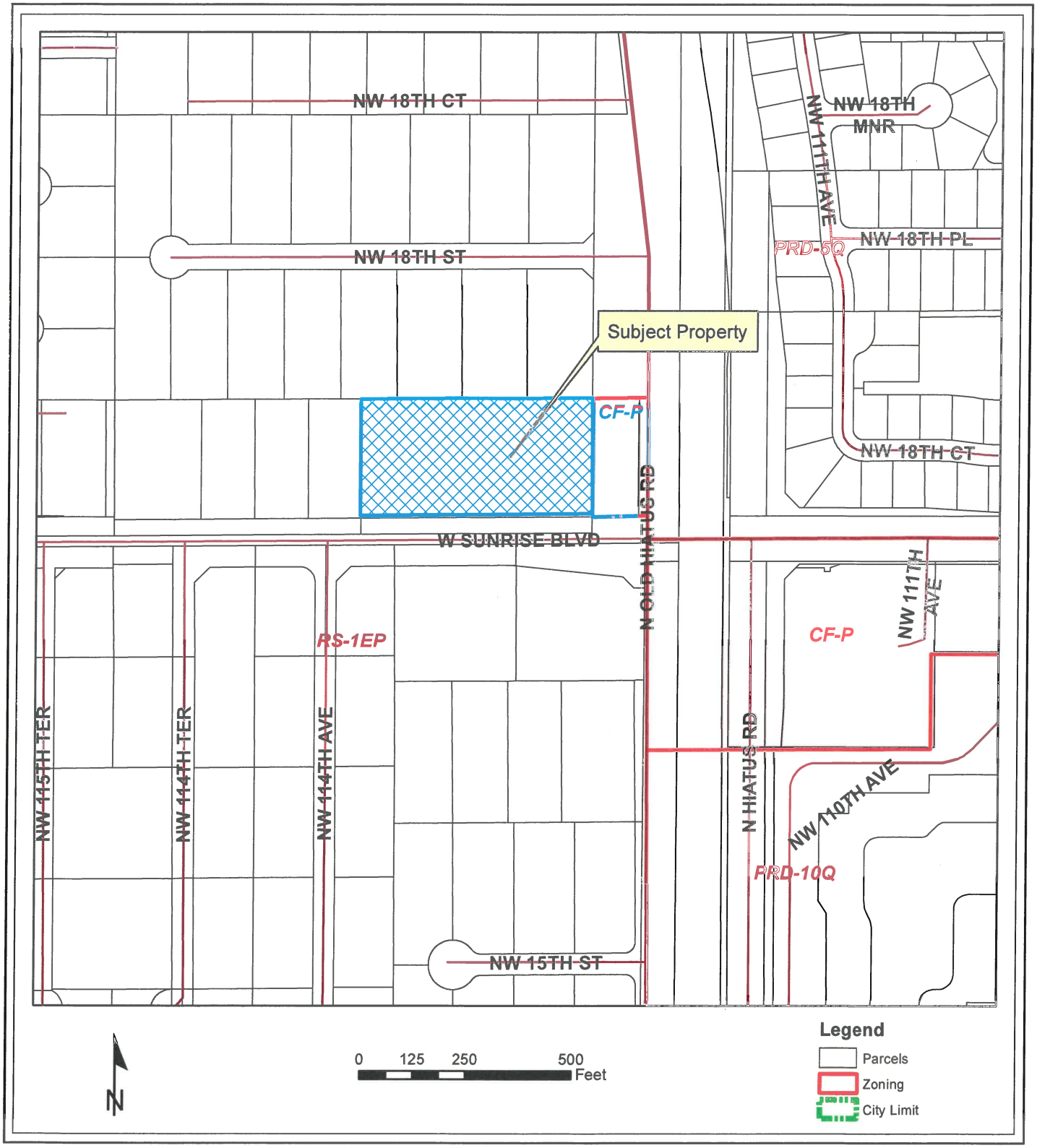
11311 NW 4th Street

CASE # PP 16-0029

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

ZONING MAP



11311 NW 4th Street

CASE # PP 16-0029

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

RESOLUTION NO.

A RESOLUTION APPROVING THE POOL PARCEL SITE DATA RECORD.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF PLANTATION, FLORIDA, THAT:

SECTION 1: The attached Pool Parcel site data record, consists of approximately 2.34 gross acres and 2.19 net acres after right-of-way dedications associated with NW 4th Street, more or less, and as prepared by Deni Land Surveyors, Inc., be and the same is hereby approved with the proviso that no building permit shall issue thereon until a local concurrency review is completed (and until all items, if any, identified in such local concurrency review are adequately addressed), all requirements of the City's approval are met, all utility charges are paid, and upon the further limitation that no Certificate of Occupancy shall be granted on any such building permit unless and until the structure to be C.O.'d is connected to the City water system, if the City water system is available at that time. This site data record shall not be recorded.

PASSED AND ADOPTED by the City Council this _____ day of _____, 2017.

SIGNED by the Mayor this _____ day of _____, 2017.

_____
MAYOR

ATTEST:

_____
CITY CLERK

[322]9002-11002

APPROVED DATE

REQUESTED BY:_____

DEPT. OK:_____

ADMIN. OK:_____

ATTY. OK: Quentin E. Morgan
AS TO FORM ONLY

RECORD ENTRY:

I HEREBY CERTIFY that the Original of the foregoing document was received by the Office of the City Clerk and entered into the Public Record this _____ day of _____, 20___.

_____

Susan Slattery, City Clerk

Plantation City Council Meeting Agenda

Notice of City Council Meeting

Wednesday, April 26, 2017 ~ 7:30 PM

City of Plantation
City Council Chambers

Subject:

Request to approve sign special exception for First Watch Restaurant located at 7620 Peters Road (PP17-0010)

ATTACHMENTS:

Description	Upload Date	Type
Staff Report	4/19/2017	Backup Material
Aerial Map	4/18/2017	Backup Material
Zoning Map	4/18/2017	Backup Material

Plantation
the grass is greener®

Planning, Zoning & Economic Development Memorandum

DATE: April 26, 2017

TO: Mayor and Members of the City Council

THRU: Danny A. Holmes, AICP
Planning, Zoning & Economic Dev Director

FROM: Gayle Easterling, AICP
Senior Planner

I. PROJECT SUMMARY

A. Project Name: Sign Special Exception – First Watch Restaurant / PP17-0012

B. Sign Special Exception request:

1. From: Section 22-20(b) requires wall signs to have uniform sign attributes and limits the number of sign colors for centers having between ten and twenty tenants to three colors. Sign attributes include sign style, materials, returns, construction, trim caps, textures, colors, text format, font style, character size/sign area ratios, lighting methods, and fastening method;
   To: Allow one additional color, white;
   To: Allow First Watch branding font;
   To: Allow a backer panel behind the channel letters.

2. From: Section 22-20(f), which limits subordinate messages (describing a service or product) to 15% of the allowable wall sign area, 9 square feet;
   To: Allow the subordinate message "Breakfast Lunch Brunch" to be 10 square feet in area.

C. Recommendation: **PARTIAL APPROVAL** of Request #1 and **APPROVAL** of Request #2 subject to conditions noted in Section VI of this staff report.

II. APPLICATION SUMMARY

A. Owner: Kimco Realty Corporation

B. Agent: Eddie Jarrard

C. Location: 7620 Peters Road (See Exhibit B)

D. Size: 4.59-acres

E. Folio Number: 504116140010

F. Legal Description: See Exhibit C

G. Future Land Use Plan Designation, Current Zoning and Use of Subject Property:

Existing Use & Zoning		Future Land Use Map
Subject Property:	Commercial uses zoned SPI-3 (Plantation Midtown)	Commercial
North:	Peters Road	n/a
South:	Commercial uses zoned SP1-3 - (Plantation Midtown)	Commercial
East:	Commercial uses zoned SP1-3 - (Plantation Midtown)	Commercial
West:	SW 78th Avenue, Office Park zoned OP-P (Office Park Plantation)	Office Park (Limited Commercial)

III. BACKGROUND

A. Subject Property

The subject property is zoned SPI-3 (Plantation Midtown), 4.59 acres in area, and developed with a 60,414 square foot shopping center. The shopping center includes two buildings; a three tenant outparcel building at the northeast corner of the property, and a larger multi-tenant building with a supermarket anchor (Lucky's Market) on the west side of the property.

B. Synopsis

First Watch Restaurant intends to occupy a 3,500 square foot tenant space on the north endcap of the outparcel building and currently has interior alteration permits in review.

Based on the size of the storefront, city code allows one 60 square foot wall sign on the front (north) building elevation and one 30 square foot wall sign on side (west) building elevation. The applicant is requesting approval to allow a 42.5 square foot sign on the north elevation and a 32.5 square foot sign on the west elevation.

The applicant is also requesting a sign special exception to deviate from the shopping center's uniform sign agreement to allow:

- a 32.5 square foot brown "wood grain" backer panel (behind the channel letters);
- white face channel letters in lieu of red, blue, or green; and
- a branding font in lieu of standard block lettering.

C. Applicable Criteria

Pursuant to Section 22-10(c) of the Code, if an application for a permanent sign permit is denied as a result of not being in compliance with the requirements of Chapter 22, the applicant may file a request for a sign special exception with the city governing body within thirty (30) business days of written notice of the permit denial. Section 22-11(b) provides criteria to be evaluated in the review of a special exception request. See section IV. B.

IV. PROJECT ANALYSIS, CRITERIA AND FINDINGS

A. Comprehensive Plan Considerations

Not applicable.

B. Zoning Considerations

Where applicable, the review of a Sign Special Exception request should include consideration of the criteria noted in Section 27-11(b) of the Land Development Code.

Sign Special Exception Criteria:

1. That special conditions and circumstances exist such as, but not limited to, building orientation, vehicular circulation or vision obstructions (not to include landscaping) that are peculiar to the land, structure, or building that create a site specific justification for the exception;

   Applicant response: There are no exceptions being applied for related to the above statement, only exceptions to the Uniform Sign Agreement related to letter style, face color and the use of a wood backer that meets branding standards that promote national recognition.

   Staff response: There are no special conditions or circumstances that create a site specific justification for the exception. The request is specific to allow brand identity.

2. That a literal interpretation of the provisions of this Chapter would deprive the applicant of rights commonly enjoyed by other property of lands, structures or buildings of similar character with identical special circumstances (nonconforming

signs shall not be grounds for issuing sign special exceptions), or alternatively , that a special exception from the provisions of this Chapter is warranted and justified to protect, preserve, or enhance the City's tax base or to prevent or eradicate conditions of economic blight;

Applicant response: The exceptions being applied for will promote the Applicant's restaurant consistently as a national brand which will in turn support the national marketing efforts of First Watch and ultimately attract more business to the location to support the City's tax base.

Staff response: Application of the code does not deprive the applicant of rights commonly enjoyed by other property, land, structures or buildings of similar character as many national brands must work within the parameters of uniform sign agreements especially within multi-tenant buildings. The backer panel is a significant deviation from the uniform sign agreement as compared to the color and font change. Staff has included pictures under Section V below of First Watch locations in nearby communities that have channel letters without a backer panel.

3. That the special conditions and circumstances do not result from the action of the applicant;

   Applicant response: The First Watch sign will not deface the building or bring down the value to the City's tax base. The exceptions are for the color, letter style and use of a backer panel.

   Staff response: There are no special conditions and circumstances that do not result from the action of the applicant.

4. That the sign special exception to be granted is the minimum measure needed to address the special conditions and circumstances that justify the special exception;

   Applicant response: Requested exceptions are the minimum measures to maintain the brand appearance the marketing efforts support. The signs meet code in square footage. The Uniform Sign Agreement will not allow the national branding to occur.

   Staff response: The applicant can maintain branding appearance utilizing the logo and branding font without the application of the backer panel. The backer panel measures 156-inches by 30-inches (32.5 square feet) and visually makes the signage appear larger and unique when compared to other signs in the plaza.

5. That the sign special exception will be in harmony with the general purpose and intent of this Chapter and will not be injurious to the neighborhood, or surrounding property, and will not otherwise detrimental to safe and convenient use of nearby rights-of-way;

Applicant response: These are wall mounted signs and will not affect neighborhood, or surrounding property detrimentally.

Staff response: The signs as proposed will not be injurious to the neighborhood or surrounding property, and will not otherwise be detrimental to safe and convenient use of nearby rights-of-way.

6. That all other signage on the property is in substantial compliance with this Chapter, as applied.

   Applicant response: This particular building has two other tenants and they comply, First Watch is seeking exception to the Uniform Sign Agreement to set itself apart from other business in the center.

   Staff response: The signage on this property is in general compliance with the City Code and the shopping center's uniform sign agreement. Lucky's Market is in process of coming into compliance after installing signs (including a white and red backer panel) without the benefit of permits. Lucky's Market is removing the backer panels and other signage not approved by City Council.

C. Citizen Comments

The Planning, Zoning & Economic Development Department has not received any written citizen comments nor phone calls about this application.

D. Concerns, Issues and other Pertinent Information

Code Violations: Lucky's has been notified regarding the sign violations and is responding appropriately.

V. STAFF COMMENTS:

PLANNING AND ZONING:

1. The Jbox and the conduit to the Jbox shall either be relocated to the backside of the parapet or be painted to match the building color.
2. The applicant is requesting a special exception to increase the size of the subordinate message from 9 square feet in area to 10 square feet in area. The subordinate message of "Breakfast Lunch Brunch" can easily be reduced to 9 square feet in area by reducing the height of the proposed letters from 10" to 9".
3. The applicant is requesting a special exception to deviate from the uniform sign attributes for center. Sign attributes include sign style, materials, returns, construction, trim caps, textures, colors, text format, font style, character size/sign area ratios, lighting methods, and fastening method. Staff has no objection to the request for one additional color and use of a branding font; however, staff does not support the applicant's request for the proposed backer panel. The following First Watch locations, in nearby communities, do not have the backer panel.

Deerfield Beach

Pembroke Pines (no branding font)

Sunrise

Boca Raton

4. The corporate signage package provided by the applicant indicates a matte black steel panel is acceptable branding. The existing building has two wall colors (gold and light gold), two brick colors (red and beige mottled), two types of awnings (black and cream stripes and dark beige and cream stripes), and black/dark bronze fixtures. Should the City Council elect to approve use of a backer panel, staff recommends the panel be a matte black steel material (also an approved corporate branding material) in lieu of the proposed brown faux wood.

First Watch storefront (West elevation)

Partial Building elevation (West)

Proposed faux wood backer panel

If approved, recommended matte black steel panel

VI. RECOMMENDATION:

Request #1: To deviate from the uniform sign attributes.

- **PARTIAL APPROVAL** to include color and font but not to include a backer panel; OR
- **APPROVAL** to include color and font and a matte black steel backer panel.

Request #2: To increase the size of the subordinate message.

- **APPROVAL**

VII. EXHIBITS:

A. Aerial Photograph
B. Zoning Map
C. Legal Description

AERIAL MAP

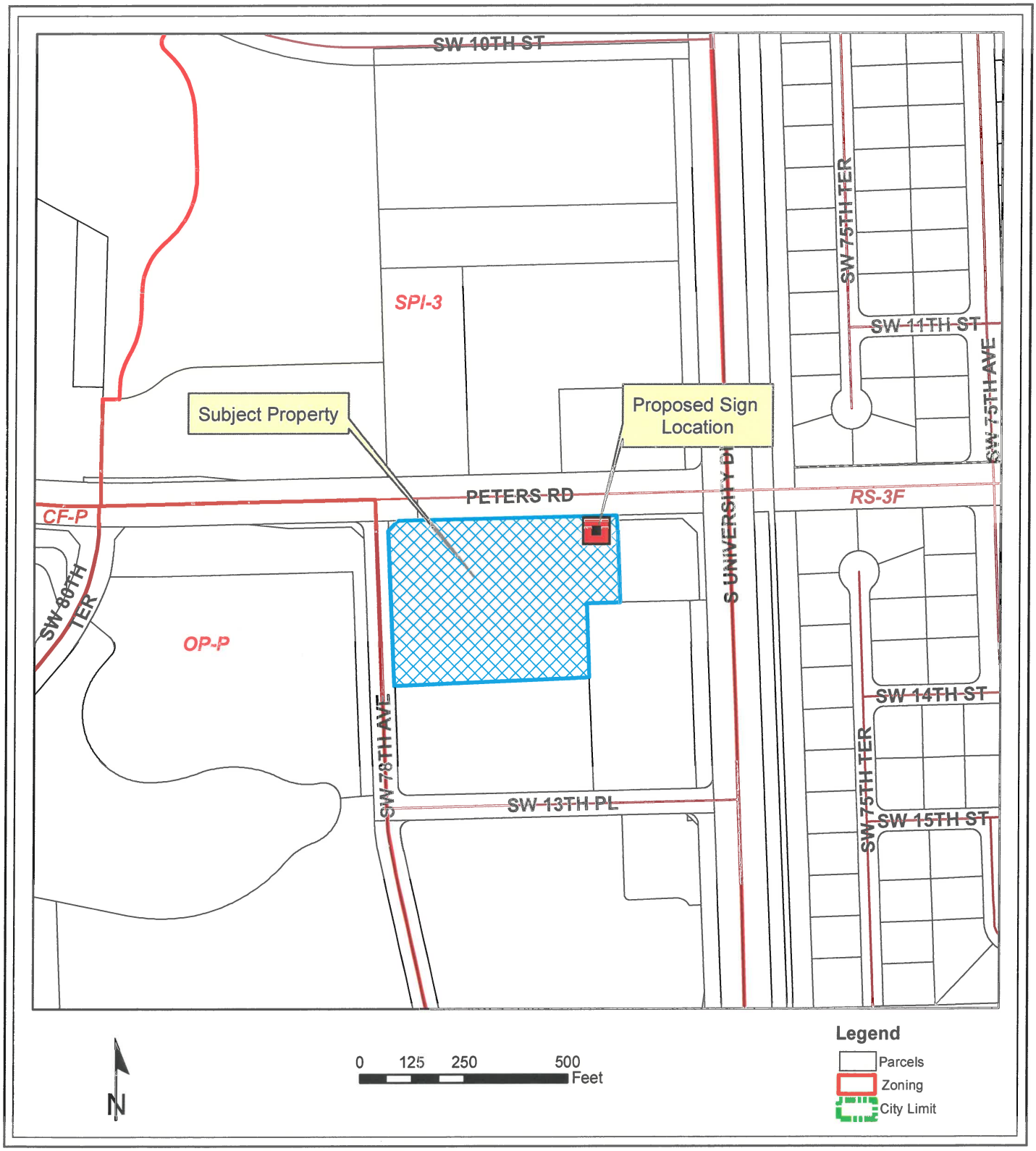
7620 Peters Road

CASE # PP17-0012

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

ZONING MAP



7620 Peters Road

CASE # PP17-0012

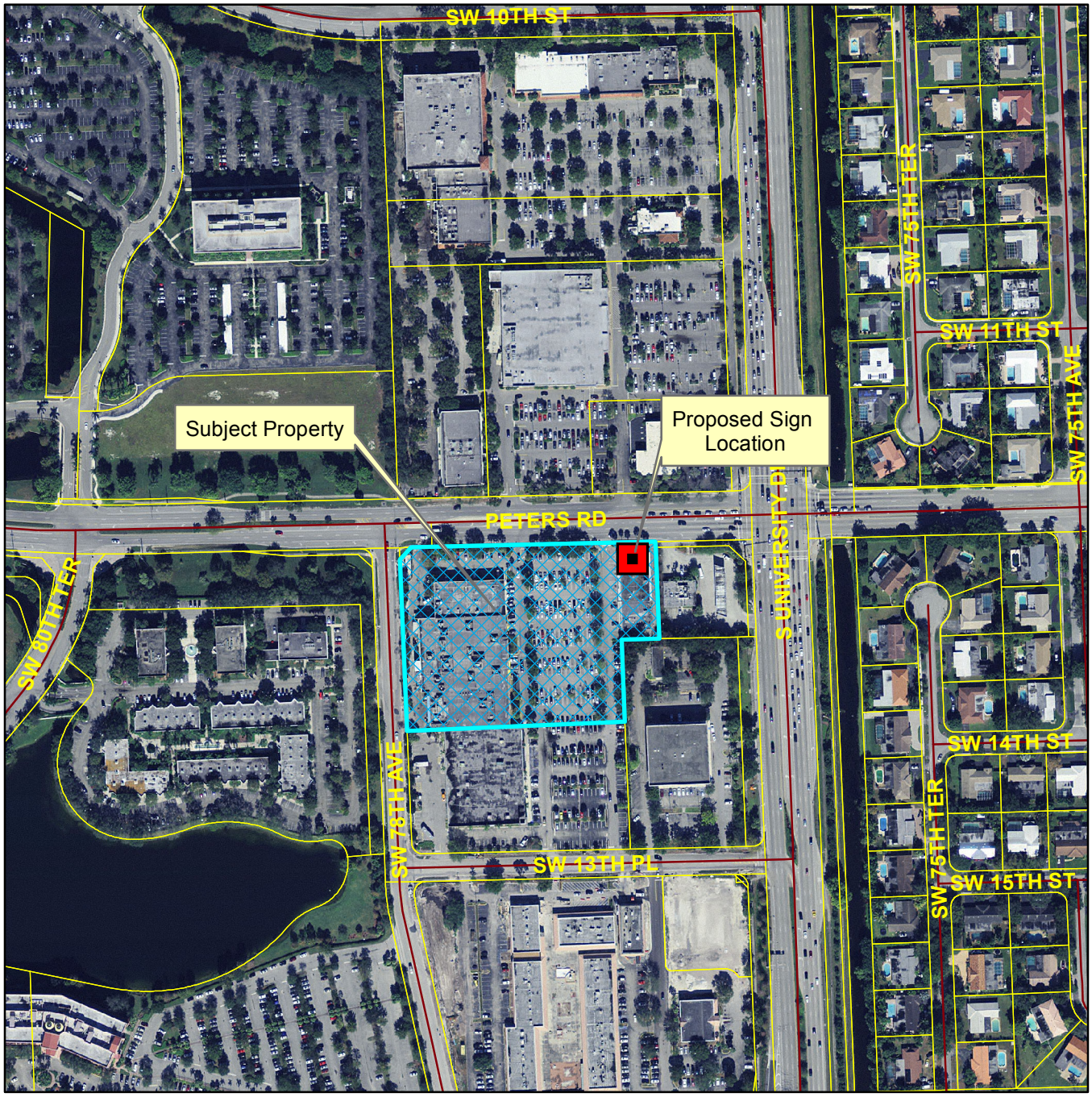
Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

EXHIBIT C
Legal Description

LEGAL DESCRIPTION:
TRACT "A", "KIMCO-PETERS CO., LTD. PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 101, PAGE 20, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

AERIAL MAP



N

0 125 250 500 Feet

Legend

Parcels

City Limit

7620 Peters Road

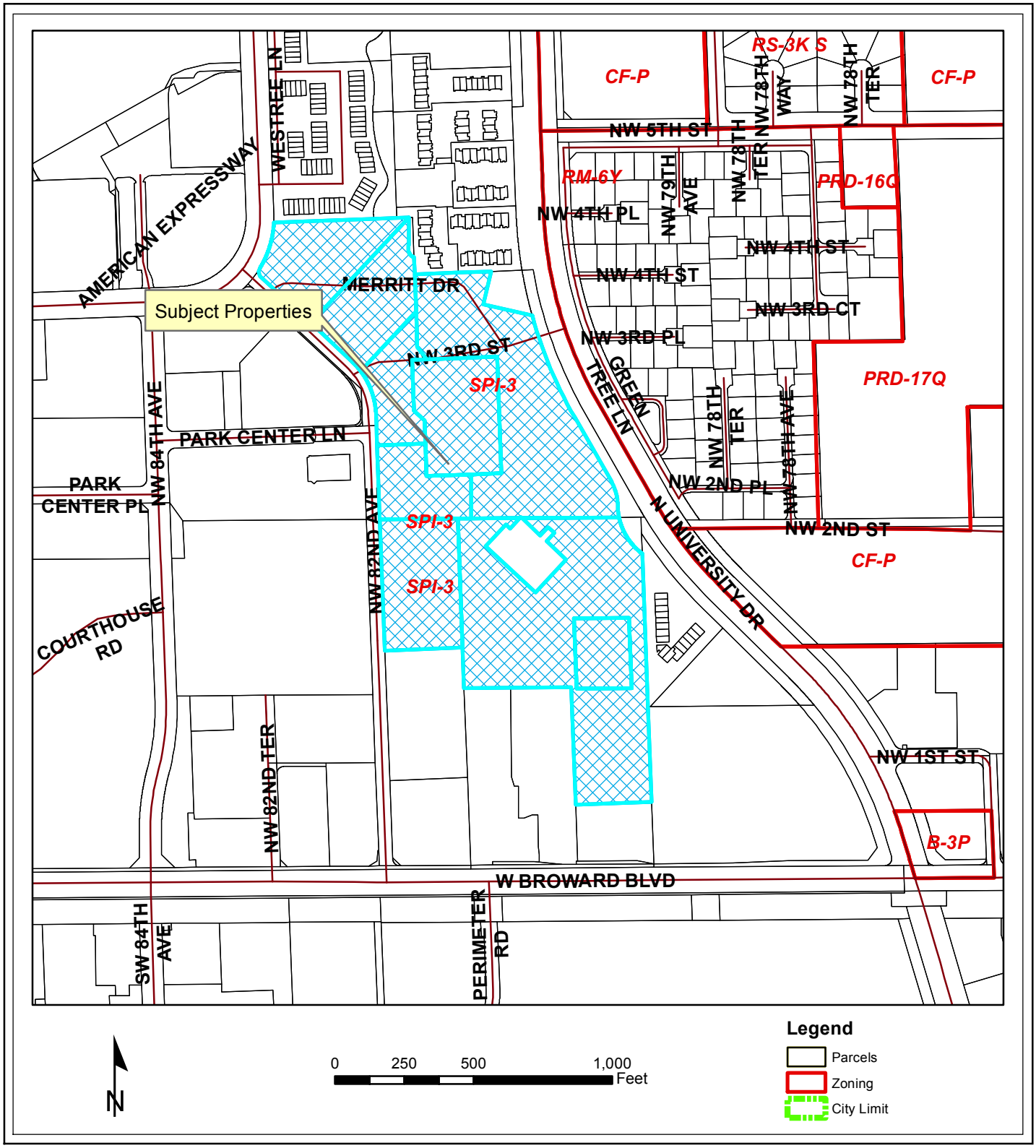
CASE # PP17-0012

Plantation
the grass is greener®

PLANNING, ZONING & ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
4/18/17

ZONING MAP



321 N. University Drive
CASE # PP17-0010

Plantation
the grass is greener®
PLANNING, ZONING &
ECONOMIC DEVELOPMENT

PLANTATION, FLORIDA
03/14/17