

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

**Meeting Date:** February 4, 2014

**Consent [X]  
Public Hearing [ ]**

**Regular [ ]**

**Department:** Water Utilities Department

**I. EXECUTIVE BRIEF**

**Motion and Title:** Staff recommends motion to approve: Work Authorization No. 4 with Cardinal Contractors, Inc. for the Central Region Reclaimed Water Facility Improvements (CRRWF) in the amount of \$854,451.81.

**Summary:** On January 24, 2012, Palm Beach County Board of County Commissioners approved the Contract for Water, Wastewater and Reclaimed Water Improvements Design/Build Services with Calvin Giordano (R2012-0160). On September 10, 2013, the Contract was assigned from Calvin Giordano to Cardinal Contractors to enable bonding capacity with the same design build team members. Work Authorization No. 4 will authorize installation of an influent strainer with booster pump, piping modifications and a maintenance building at the CRRWF. This Work Authorization is necessary to increase the level of automation as this is typically an unmanned facility. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with Cardinal Contractors, Inc. provides for SBE participation of 26% overall. This Authorization includes 16.47% overall participation. The cumulative SBE participation, including this Work Authorization is 28.31% overall. Cardinal Contractors, Inc. is not a Palm Beach County company. This project is included in the FY13-14 Capital Improvement plan adopted by the Board of County Commissioners. (WUD Project No. 13-009) District 2 (JM)

**Background and Justification:** The CRRWF serves Century Village, Cypress Lakes, Vista Center and Emerald Dunes. Work Authorization No. 4 will install an influent strainer with booster pump, piping modifications and a maintenance building. The former Century Village wastewater treatment plant electrical generator building will be demolished as the Century Village master pump station now has its own generator. The CRWRF has only a small electrical building which is not suitable for storage of maintenance equipment under the fire code. A new pre-fabricated concrete maintenance building is included and will provide on-site bathroom for operations and maintenance personnel. Cardinal Contractors, Inc. will provide builders risk insurance prior to commencement of construction.

**Attachments:**

1. Location Map
2. Two (2) Original Work Authorizations No. 4

Recommended By: \_\_\_\_\_

  
Department Director

1/23/14  
Date

Approved By: \_\_\_\_\_

  
Assistant County Administrator

1/20/14  
Date

## II. FISCAL IMPACT ANALYSIS

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2014	2015	2016	2017	2018
Capital Expenditures	<u>\$854,451</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$854,451</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**Budget Account No.:** Fund 4011 Dept 721 Unit W008 Object 6543

Is Item Included in Current Budget?      Yes   X        No       

Reporting Category N/A

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

The project will be funded by Water Utility Department User fees.

C. Department Fiscal Review: Delia m West

### III. REVIEW COMMENTS

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

OFMB *BN* *SD*  
*1/24* *1/24*

*Dr. J. Jacobs*  
Contract Development and Control  
F-28-14 *Dr. Jacobs*

**B. ~~Legal~~ Sufficiency:**

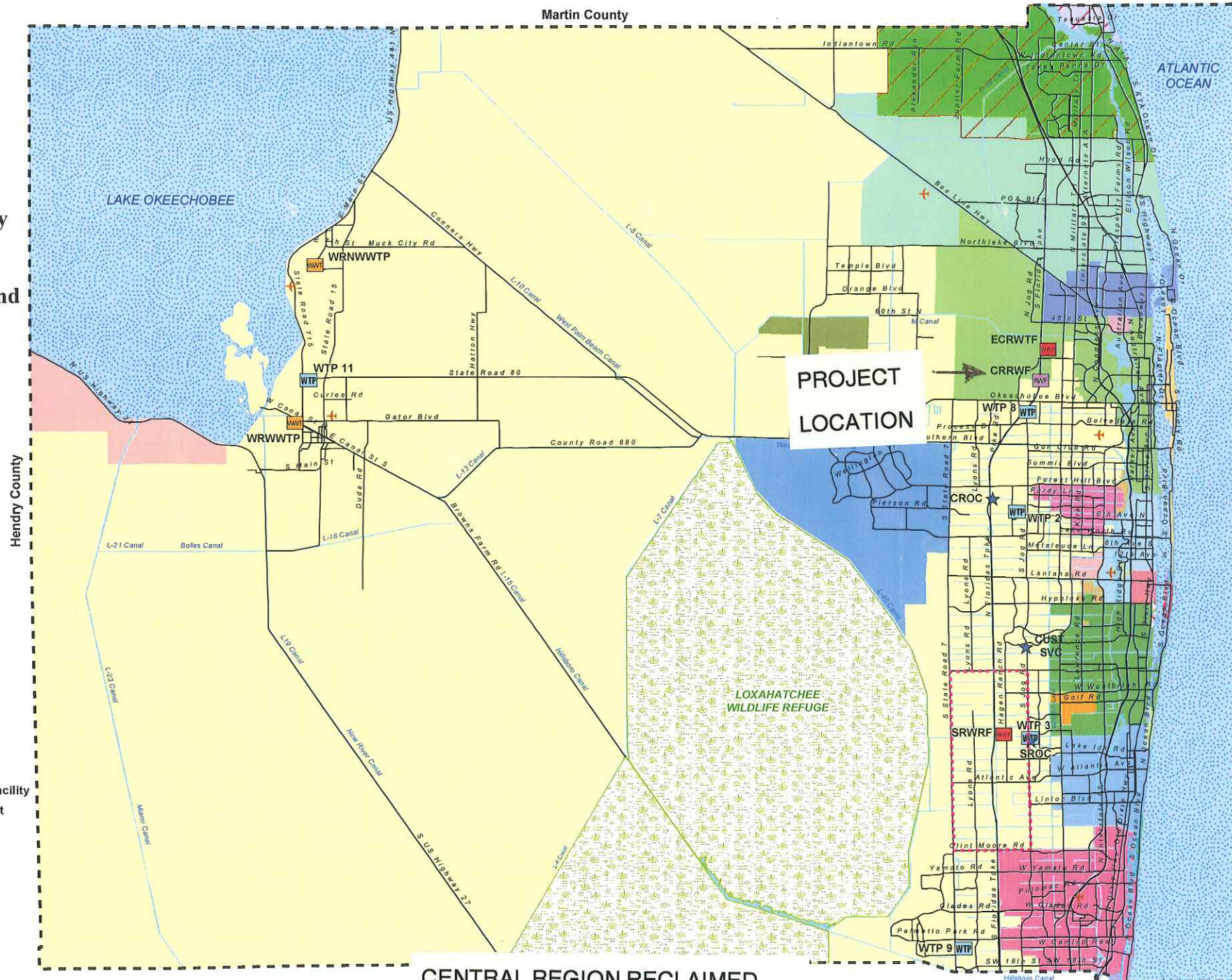
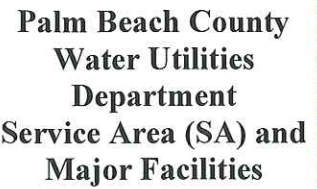
James C. Meyer 1/30/14  
Assistant County Attorney

**C. Other Department Review:**

Department Director

This summary is not to be used as a basis for payment.





## CENTRAL REGION RECLAIMED WATER FACILITY IMPROVEMENTS

**WORK AUTHORIZATION NO. 04**  
**Palm Beach County Water Utilities Department**  
**Water, Wastewater & Reclaimed Water Services**

**Project No. WUD 13-009**

**District: 5**

**Budget Line Item No. 4011-721-W008-6543**

**Project Title: Central Region Reclaimed Water Facility Improvements**

**THIS AUTHORIZATION No. 04** to the Contract for Water, Wastewater & Reclaimed Water Services Design-Build dated January 24, 2012 (R2012-0160), by and between Palm Beach County and the Design Build Entity as assigned to Cardinal Contractors, Inc., is for the Design-Build Services of this Work Authorization. The Contract provides for 26% SBE participation overall. This Work Authorization includes 16.47% overall participation. The cumulative proposed SBE participation, including this authorization is 28.31% overall. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. DESIGN-BUILD ENTITY: Cardinal Contractors, Inc.
2. ADDRESS: 10405 Technology Terrace, Lakewood Ranch, FL 34211
3. Description of Services (Scope of Work) to be provided by the Design Build Entity:

See **ATTACHMENT A.**

4. Services completed by the Design Build Entity to date:

See **ATTACHMENT G.**

5. Design Build Entity shall begin work promptly or deliver ordered materials within the following calendar days from the approval date of the Work Authorization:

Substantial Design Completion 150 Calendar Days Calendar Day after receipt of executed Work Authorization and notice to proceed with design.

Substantial Construction Completion 300 Calendar Days after receipt of all permits and issuance of notice to proceed with construction.

Final Construction Completion 330 Calendar Days after receipt of all permits and notice to proceed with construction.

Liquidated damages will apply as follows:

\$1,000 per day past substantial completion date.

\$500 per day past final completion date.

(For Liquidated Damages Rates see ATTACHMENT B)



The parties hereby agree and acknowledge that County's actual damages in the event of delay would be difficult or impossible to ascertain and that the foregoing liquidated damages amount represents a liquidated sum of damages agreed upon by the parties as a measure of damages in the event of such delay and not as a penalty.

6. The Guaranteed Maximum Price to be paid to the Design Build Entity for providing the requested services in accordance with the Contract shall be \$854,451.81, subject to adjustment in accordance with the terms of the Contract.
7. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 01/24/2012 remain in full force and effect.

WORK AUTHORIZATION NO. 04

Project No. WUD 13-009

Project Title: Central Region Reclaimed Water Facility Improvements

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Sharon R. Bock, Clerk & Comptroller,  
Palm Beach County

Palm Beach County,  
Board of County Commissioners

ATTEST:

Signed: \_\_\_\_\_

Signed: \_\_\_\_\_  
Priscilla A. Taylor, Mayor


Typed Name: \_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
Date

Approved as to Form and Legal  
Sufficiency

Palm Beach County,  
Water Utilities Department


Signed: \_\_\_\_\_

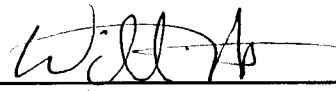
Signed:   
Bevin A. Beaudet, Director

Typed Name: \_\_\_\_\_  
County Attorney

ATTEST:

DESIGN BUILD ENTITY:  
Cardinal Contractors, Inc.

  
\_\_\_\_\_  
Witness

  
\_\_\_\_\_  
(Signature)

Robin C. Wilson, Assistant Secretary  
(Name and Title)

William J. McDevitt, President  
(Name and Title)

(CORPORATE SEAL)

12/12/2013  
Date



## **LIST OF ATTACHMENTS**

### **WORK AUTHORIZATION NO. 04**

#### **Palm Beach County Water Utilities Department**

#### **Water, Wastewater & Reclaimed Water Services Design-Build Contract**

<b>ATTACHMENT – A</b>	Scope of Work
<b>ATTACHMENT – B</b>	Rate for Liquidated Damages
<b>ATTACHMENT – C</b>	Public Construction Bond
<b>ATTACHMENT – D</b>	Form of Guarantee
<b>ATTACHMENT – E</b>	Work Authorization Cost Schedule
<b>ATTACHMENT – F</b>	SBE Schedule 1 and Schedule 2
<b>ATTACHMENT – G</b>	Authorization Status Report - Summary and Status of Authorizations
<b>ATTACHMENT – H</b>	Authorization Status Report - Summary of SBE/Minority Business Tracking
<b>ATTACHMENT – I</b>	Location Map
<b>ATTACHMENT – J</b>	Design-Build Criteria
<b>ATTACHMENT – K</b>	Vendor Quotes

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# **ATTACHMENT A**

## **WORK AUTHORIZATION NO. 04**

### **Palm Beach County Water Utilities Department**

#### **Water, Wastewater & Reclaimed Water Services Design-Build Contract**

### **SCOPE OF WORK FOR**

#### **Central Region Water Facility Improvements**

#### **INTRODUCTION**

Palm Beach County (County) entered into an agreement entitled Water, Wastewater & Reclaimed Water Improvements - Palm Beach County Water Utilities Department Project No. WUD 13-009 (CONTRACT) with Calvin, Giordano & Associates, as assigned to Cardinal Contractors, Inc. (DESIGN BUILD ENTITY) to provide design-build services for various general activities on the Water, Wastewater & Reclaimed Water Services Design-Build Contract dated January 24, 2012 (R2012-0160). This Work Authorization will be performed under that CONTRACT.

This Work Authorization encompasses furnishing all labor, equipment, materials, tools, supervision, and services required to design, construct, permit, test, and startup for influent strainer with booster pump, piping modifications and new building.

#### **SCOPE OF SERVICES**

Design Build Entity shall perform the Scope of Services as described herein:

##### **Task 1 – Data Collection and Survey**

1. Receive NTP for Design
2. Review as-built drawings.
3. Review specifications for the existing S.P. Kinney Strainer.
4. Review pre-fabricated metal building specifications.
5. Determine electrical and instrumentation requirements.
6. Coordinate with existing plant SCADA, confirming available I/O.
7. Conduct field surveys for use in the design.
8. Perform soft dig utility locates on the existing yard piping.
9. Conduct soil surveys
10. Coordinate with Holtz Engineering for connections to lift station

##### **Task 2 – 60% Design**

1. Design of the booster pumps and associated piping utilizing existing 25 hp pump and associated VFD.
-



2. Design of strainer location and backwash drain line to Lift Station 5240.
3. Design of control valve for existing filter.
4. Design of the new check valve and motorized operators on the existing valves on the recirculation/rechlorination process.
5. Design of foundation for precast building.
6. Design water and sewer service for the precast building.
7. Design of road and parking spaces for the precast building.
8. Design electrical and instrumentation associated with the SCADA system relocation.
9. Prepare 60% design drawings and specifications.
10. Provide (3) full size and (3) half size drawing sets of plans and specifications to be submitted for PBCWUD review at the 60% design.
1. Submit for FDEP permit.

### **Task 3 - 90% Design**

1. Provide written response to 60% design comments.
2. Provide (3) full size and (3) half size drawing sets plans and specifications to be submitted for PBC WUD review at the 90% design.

### **Task 4 - 100% Design**

1. Provide written response to 90% design comments
2. Provide (3) half size and (3) full size sets of signed and sealed plans for the PBC Building permit.
3. Provide CAD files and PDF files.
4. Provide (3) half size and (3) full size sets of plans and specifications.

### **Task 5 – Pre-Construction Services**

1. Pre-Construction Meeting.
2. Shop drawing review and approval.

### **Task 6 – Construction Services**

1. Receive NTP for Construction
2. Tree relocations performed by County
3. Construction activities
4. Start up and testing.
5. Restoration

### **Task 7 – Project Close Out**

1. Restoration of SOD and irrigation disturbed by improvements will be performed by PBC.
2. Coordinate preparation of final As-Built Plan.
3. Coordinate and provide all required final certifications.
4. Obtain all final inspections and close out all permits. When possible, provide computer print-out from permitting agency evidencing permits have been properly closed.
5. Prepare project close-out documentation package, including signed-off permits, As-Built drawings, and photographs.

### **ASSUMPTIONS**

1. Re-use existing 25 hp horizontal non-clog pump
  2. New building fed from existing electrical building
-

## **ATTACHMENT B**

### **WORK AUTHORIZATION NO. 04**

#### **Palm Beach County Water Utilities Department**

#### **Water, Wastewater & Reclaimed Water Services Design-Build Contract**

#### **Rates for Liquidated Damages**

Substantial Design Completion 150 Calendar Days after receipt of executed Work Authorization and notice to proceed with design.

Substantial Construction Completion 300 Calendar Days after receipt of all permits and issuance of notice to proceed with construction.

Final Construction Completion 330 Calendar Days after receipt of all permits and notice to proceed with construction.

Liquidated damages will apply as follows:

\$1,000 per day past substantial completion date.

\$500 per day past final completion date.

The parties hereby agree and acknowledge that County's actual damages in the event of delay would be difficult or impossible to ascertain and that the foregoing liquidated damages amount represents a liquidated sum of damages agreed upon by the parties as a measure of damages in the event of such delay and not as a penalty.

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3. SCADA programming and HMI programming excluded (by county)
4. Electrical service is not being increased
5. PBCWUD will make available all existing Record Drawings of the CRRWF in PDF and AutoCAD format.
  - A. Central Region Reclaimed Water Facility (CRRWF)
  - B. East Central Region Water Reclamation Facility 16 inch effluent pipeline.
  - C. On-site Reclaimed Water Pipelines.
  - D. PBC Sanitary Sewer Pump Station 5240.
  - E. Soil Borings
  - F. CRRWF Design Report by Hazen & Sawyer
6. PBCWUD will make available the historic pressure and flow rates of secondary effluent to the existing disc filters.
7. Reconditioning the existing 20 inch S.P. Kinney Strainer is not included in this project.
8. PBCWUD to provide 12 months' worth of FPL power bills for the facility for our use.

### **COMPENSATION**

Compensation for this Work Authorization shall not exceed the Guaranteed Maximum Price.

### **SBE PARTICIPATION**

As described in General Provisions Section A.3 of the Contract, SBE participation is included in ATTACHMENT F under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intent to perform as an SBE).

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**ATTACHMENT C**

**WORK AUTHORIZATION NO. 04**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**PUBLIC CONSTRUCTION BOND**

Original bonds issued: 4

**BOND NUMBER:** 82333248 / 929582332

**BOND AMOUNT:** Eight Hundred Fifty-Four Thousand Four Hundred Fifty-One & 81/100 (\$854,451.81) ---

**CONTRACT AMOUNT:** \$854,451.81

**CONTRACTOR'S NAME:** Cardinal Contractors, Inc.

**CONTRACTOR'S ADDRESS:** 10405 Technology Terrace  
Lakewood Ranch, FL 34211

**CONTRACTOR'S PHONE:** 941-377-8555

**SURETY COMPANY:** Federal Insurance Company and Western Surety Company

**SURETY'S ADDRESS:** Surety Department of Federal Insurance  
15 Mountain View Road  
Warren, NJ 07059  
  
Western Surety Company  
555 Mission Street Suite 200  
San Francisco, CA 94105

**OWNER'S NAME:** PALM BEACH COUNTY

**OWNER'S ADDRESS:** 8100 Forest Hill Boulevard (P. O. Box 16097)  
West Palm Beach, FL 33413

**OWNER'S PHONE:** (561) 493-6000

**DESCRIPTION OF WORK:** Design, permitting, construction, testing and startup for  
influent strainer with booster pump, piping modifications and  
new building.

**PROJECT LOCATION:** Central Region Reclaimed Water Facility (CRRWF)

**LEGAL DESCRIPTION:** PCN# 00-42-43-23-00-000-3010  
Address: 2969 Northampton Street  
West Palm Beach, FL 33417

Attachment C  
**PUBLIC CONSTRUCTION BOND**

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto

Palm Beach County Board of County Commissioners  
301 N. Olive Avenue  
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of

Dollars (\$ 854,451.81)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated \_\_\_\_\_, 20\_\_ entered into a contract with the County for

Project Name: Central Region Water Facility Improvements  
Project No.: WUD 13-009  
Project Description: Design, permitting, construction, testing and startup for influent strainer with booster pump, piping modifications and new building.  
Project Location: Central Region Reclaimed Water Facility (CRRWF)  
2969 Northampton Street, West Palm Beach, FL 33417  
PCN# 00-42-43-23-00-000-3010

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: Palm Beach County Water Utilities Department  
Location of Firm: 8100 Forest Hill Blvd., West Palm Beach, FL 33416  
Phone: (561) 493-6110  
Fax: (561) 493-6008

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated \_\_\_\_\_, 20\_\_ , between Principal and County for the design and construction of Central Region Water Facility Improvements, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and

3. - Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and

4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.

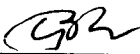
5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.

6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.

7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.

8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.

9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

  
\_\_\_\_\_  
Witness

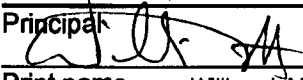
\_\_\_\_\_  
Robin C. Wilson  
Print name

  
\_\_\_\_\_  
Witness

\_\_\_\_\_  
Susan J. McGowan  
Print name

Cardinal Contractors, Inc.

\_\_\_\_\_  
Principal (Seal)


  
\_\_\_\_\_  
Print name William J. McDevitt

\_\_\_\_\_  
President

\_\_\_\_\_  
Title

Federal Insurance Company  
& Western Surety Company

\_\_\_\_\_  
Surety (Seal)

  
\_\_\_\_\_  
Print name

\_\_\_\_\_  
Debbie L. Welsh, Attorney-in-Fact

\_\_\_\_\_  
Title

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

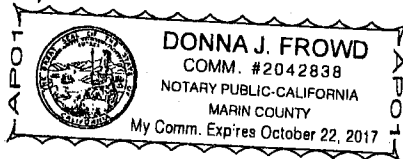
County of MARIN

On December 10, 2013 before me, Donna J. Frowd, Notary Public, personally appeared Debbie L. Welsh who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/~~she~~/~~they~~ executed the same in ~~his~~/~~her~~/~~their~~ authorized capacity(ies), and that by ~~his~~/~~her~~/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)



Signature

Donna J. Frowd





**Chubb  
Surety**

**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

**Attn: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

**Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh of Novato, California -----**

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this **23rd** day of **November, 2011.**

  
Kenneth C. Wendel, Assistant Secretary

  
David B. Norris, Jr., Vice President

STATE OF NEW JERSEY  
County of Somerset

ss.

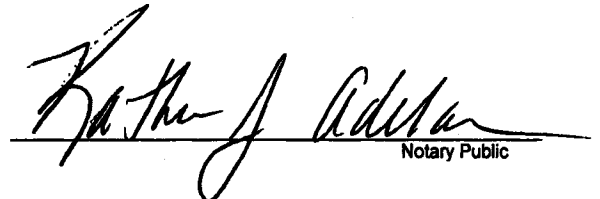
On this **23rd** day of **November, 2011**

before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



**KATHERINE J. ADELAAR  
NOTARY PUBLIC OF NEW JERSEY  
No. 2316685  
Commission Expires July 16, 2014**

  
Notary Public

**CERTIFICATION**

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys- in- Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY  
(the "Companies") do hereby certify that

- (i) the foregoing extract of the By- Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **10th** day of **December, 2013.**



  
Kenneth C. Wendel, Assistant Secretary

**IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656  
e-mail: surety@chubb.com**

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

**Know All Men By These Presents,** That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael Brophy Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually**

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

**In Witness Whereof,** WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 20th day of March, 2013.



WESTERN SURETY COMPANY

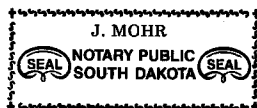
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 20th day of March, 2013, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2015



J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 10th day of December, 2013.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

**ATTACHMENT D**

Bond Nos: 82333248 / 929582332  
Original letters issued: 4

**WORK AUTHORIZATION NO. 04**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**FORM OF GUARANTEE**

**GUARANTEE FOR (Contractor and Surety Name) Cardinal Contractors, Inc. and Federal Insurance Company and Western Surety Company**

We the undersigned hereby guarantee that the Water, Wastewater & Reclaimed Water Improvements Design/Build Contract R2012-0160, Project Number WUD 13-009, Palm Beach County, Florida, will be constructed and bonded, in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within a period of one year from the date of Substantial Completion of all of the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. When correction work is started, it shall be carried through to completion.

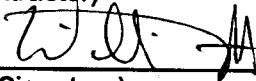
In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

DATED December 10, 2013

**SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY**

Cardinal Contractors, Inc. (Seal)

(Contractor)

By: 

(Signature)

William J. McDevitt, President

(Printed Name)

Federal Insurance Company  
& Western Surety Company

(Seal)

(Surety)

By: 

(Signature)

Debbie L. Welsh, Attorney-in-Fact

(Printed Name)

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of MARIN

On December 10, 2013 before me, Donna J. Frowd, Notary Public, personally appeared Debbie L. Welsh who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(ies), and that by ~~his~~/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

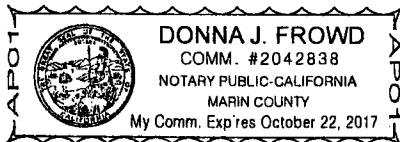
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)

Signature

Donna J. Frowd







**Chubb  
Surety**

**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

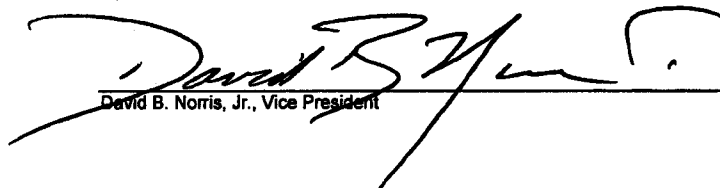
**Attn: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh of Novato, California**

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **23rd** day of **November, 2011**.

  
Kenneth C. Wendel, Assistant Secretary

  
David B. Norris, Jr., Vice President

STATE OF NEW JERSEY  
County of Somerset

ss.

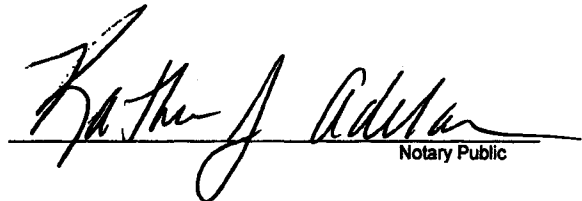
On this **23rd** day of **November, 2011**

before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



**KATHERINE J. ADELAAR**  
**NOTARY PUBLIC OF NEW JERSEY**  
No. 2316685  
Commission Expires July 16, 2014

  
Notary Public

**CERTIFICATION**

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **10th** day of **December, 2013**.



  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656  
e-mail: surety@chubb.com

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

**Know All Men By These Presents,** That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael Brophy Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually**

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

**In Witness Whereof,** WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 20th day of March, 2013.



WESTERN SURETY COMPANY

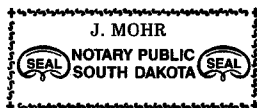
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 20th day of March, 2013, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2015



J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 10th day of December, 2013.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

**ATTACHMENT E**

**WORK AUTHORIZATION NO. 04**

**Palm Beach County Water Utilities Department**

**Water, Wastewater & Reclaimed Water Services Design-Build Contract**

**Work Authorization Cost Schedule**

***(Provide breakdown of materials, labor and subcontractors)***

---

ESTIMATE SUMMARY - COSTS & BID PRICES

Bid#	Client# Bid Description	Quantity	Unit	Manhours	Direct Labor	Perm Matl	Constr Matl	Equip- Ment	Sub- Contr	Direct Total	Indirect Charge	Total Cost	Total Cost Unit Price	Markup	Balanced Bid		Bid Price	Bid Total
															Total	Unit Price		
2		1.00	LS	192	6,341	3,194		2,430	14,350	26,315	6,198	32,513	32,512.78	4,185 12.9 %	36,698	36,697.87	36,697.87	36,697.87
DIVISION 2				192.00														
3		1.00	LS	403	13,298	8,051	850		2,500	24,699	5,817	30,516	30,515.72	3,928 12.9 %	34,444	34,443.75	34,443.75	34,443.75
DIVISION 3				402.65														
4		1.00	LS	136	4,492	4,775		225	2,500	11,992	2,824	14,816	14,816.40	1,907 12.9 %	16,724	16,723.59	16,723.59	16,723.59
DIVISION 11				136.00														
5		1.00	LS	62	2,048	83,575		150		85,773	20,201	105,974	105,973.59	13,641 12.9 %	119,615	119,614.66	119,614.66	119,614.66
DIVISION 13				62.00														
6		1.00	LS	1,620	53,503	161,585		22,150	3,750	240,988	56,757	297,746	297,745.56	38,326 12.9 %	336,072	336,071.80	336,071.80	336,071.80
DIVISION 15				1,620.00														
7		1.00	LS	43	1,420	153		1	90,000	91,574	21,568	113,142	113,142.02	14,564 12.9 %	127,706	127,705.82	127,705.82	127,705.82
DIVISION 16				43.00														
8		1.00	LS						158,194	158,194		158,194	158,194.32	*** PT ***	158,194	158,194.32	158,194.32	158,194.32
ENGINEERING FEES																	MB	
9							25,000			25,000		25,000		*** PT ***	25,000	25,000.00	25,000.00	25,000.00
OWNER'S ALLOWANCE																		
Totals:				2,455	81,101	261,333	25,850	24,956	271,294	664,535	113,365	777,900 752,901		76,551	854,452			854,451.81 [ 10.2 %

Code between Balanced Bid & Bid Price: U=Unbalanced, F=Frozen, C=Closing Biditem (item to absorb unbalancing differences).  
[bracketed numbers represent adjusted quantities]  
\*\* in front of the Biditem indicates a Non-Additive item

Markup % is shown as a percentage of cost

1	GENERAL CONDITIONS	1,444	87,150	533	2,095	1,200	2,820	93,798	11,272									
	Builder's Risk	1.9600 % of TC							8,294									
	Bond from Summary Table																	
	Markup on Resource Costs												76,551					
<hr/>																		
***** TOTAL	JOB ==>	3,899	168,252	261,865	27,945	26,156	274,113	758,333	19,567	777,900		76,551	854,452					829,451.81

Spread Indirects On TOTAL COST      Spread Markups On TOTAL COST      Spread Addons&Bonds On TOTAL COST



Cardinal Contractors, Inc.  
MB-31209-06D 31209 CRWRF AT CENTURY VILLAGE NO PUMP  
Mike Brandao

ESTIMATE SUMMARY - COSTS & BID PRICES

Bid#	Client# Bid Description	Quantity	Unit Manhours	Direct Labor	Perm Matl	Constr Matl	Equip- Ment	Sub- Contr	Direct Total	Indirect Charge	Total Cost	Total Cost Unit Price	Markup	Balanced Bid Total Unit Price	Bid Price	Bid Total
------	----------------------------	----------	------------------	-----------------	--------------	----------------	----------------	---------------	-----------------	--------------------	---------------	--------------------------	--------	----------------------------------	--------------	--------------

Bond Calculations  
Selected Bond Table: C Description: Bond Calc Design-

	Contract Amount	Rate per 1000	Bond Amount
First:	\$ 100,000	10.00	\$ 1,000.00
Next:	\$ 400,000	9.85	\$ 3,940.00
Next:	\$ 2,000,000	9.60	\$ 3,354.74
Next:	\$ 2,500,000	9.50	\$ 0.00
Next:	\$ 5,000,000	8.50	\$ 0.00
Remainder:		4.65	\$ 0.00
Subtotal:			\$ 8,294.74
Time Threshold 1: 0	Extended Time Rate 1: 0.0000 %		\$ 0.00
Time Threshold 2: 0	Extended Time Rate 2: 0.0000 %		\$ 0.00
Length of Job: 10	Total Bond Amount:		\$ 8,294.74

Pass Through Totals  
Total Pass Through Cost: 178,194.32  
Total Pass Through Adjustment: 0.00

Estimate Notes  
Bid Date: 09/20/2013      Owner:  
Estimator in Charge: MB

Engineering Firm:

Desired Bid (if specified)= 0.00      Sort:      Hold Acct: N      Subitem: N      NonAdd: N  
Last Summary on 11/19/2013 at 6:42 AM.  
Last Spread on 11/19/2013 at 6:42 AM.

**ATTACHMENT F**  
**SBE Schedules 1 and 2**

SCHEDULE 1  
LIST OF PROPOSED SBE-M/WBE PARTICIPATION

PROJECT NAME OR BID NAME: Central Region Reclaimed Water Facility Improvements  
NAME OF PRIME BIDDER: Cardinal Contractors, Inc.  
CONTACT PERSON: Michael Brandao  
BID OPENING DATE: n/a

PROJECT NO. OR BID NO.: WUD 13-009  
ADDRESS: 10405 Technology Terrace Lakewood Ranch, FL 34211  
PHONE NO.:941-377-8555 FAX NO.:941-756-3295  
USER DEPARTMENT: Water Utilities Department

THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUBMITTED WITH BID PACKET. PLEASE LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE -M/WBE's ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, PLEASE ALSO LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT. THE PRIME AFFIRMS THAT IT WILL MONITOR THE SBES LISTED TO ENSURE THE SBES PERFORM THE WORK WITH ITS OWN WORKFORCE.

(Check one or both Categories)			DOLLAR AMOUNT AND/OR PERCENTAGE OF WORK				
Name, Address and Phone Number	M/WBE	SBE	Black	Hispanic	Women	Caucasian	Other (Please Specify)
	Minority Business	Small Business					
1. Electrical Design Associates, Inc. 5300 W. Atlantic Avenue, Suite 408 Delray Beach, FL 33484	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			\$33,742.56		
2. Alan Gerwig & Associates, Inc. 12798 W. Forest Hill Blvd. Suite 204 Wellington, FL 33415	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$17,000.00	
3. Energy Efficient Electric, Inc. 1600 Mercer Ave., Unit 6 West Palm Beach, FL 33401	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$90,000.00	
(Please use additional sheets if necessary)							
Total					\$33,742.56	\$107,000.00	

Total Bid Price \$854,451.81

Total SBE-M/WBE Participation Dollar Amount and/or Percentage of Work \$140,742.56

I hereby certify that the above information accurate to the best of my knowledge: \_\_\_\_\_  
Signature Title

- NOTE: 1. The amount listed on this form for a SBE-M/WBE Prime or Subcontractor must be supported by price or percentage listed on the signed Schedule 2 or signed proposal in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount and/or percentage under the appropriate category.
3. M/WBE information is being collected for tracking purposes only.

Attachment F  
OSBA SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE

This document must be completed by ALL SBE-M/WBE's and submitted with this bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: WUD 13-009

PROJECT NAME: Central Region Reclaimed Water Facility Improvements

TO: Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise   X  

Minority Business Enterprise           

Black        Hispanic        Women        Caucasian        Other (Please Specify)                   

Date of Palm Beach County Certification: 9/4/12 to 9/3/15

The undersigned is prepared to perform the following described work in connection with the above project. Additional Sheets May Be Used As Necessary

Line Item/ Lot No.	Item Description	Qty/Units	Unit Price	Total Price/ Percentage
1	Electrical Subcontractor	1 lump sum	\$90,000.00	\$90,000.00

at the following price or percentage \$90,000.00 (SBE Prime or Subcontractor's Quote)

and will enter into a formal agreement for work with you contingent upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE subcontractor, please list the name of that subcontractor and the amount below.

Price or Percentage           n/a          

The Prime affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the work with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE subcontractor affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE subcontractors except as noted above.

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

Energy Efficient Electric

Print name of  
SBE-M/WBE Company

By:   
(Signature)

Rene Viau, Vice President

Print name/title of person executing on behalf  
of SBE-M/WBE

Date: 12/20/13

Attachment F  
OSBA SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE

This document must be completed by ALL SBE-M/WBE's and submitted with this bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: WUD 13-009

PROJECT NAME: Central Region Reclaimed Water Facility Improvements

TO: Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise   x  

Minority Business Enterprise   x  

Black        Hispanic   x   Women   x   Caucasian        Other (Please Specify)       

Date of Palm Beach County Certification: May 26, 2012 to May 25, 2015

The undersigned is prepared to perform the following described work in connection with the above project. Additional Sheets May Be Used As Necessary

Line Item/ Lot No.	Item Description	Qty/Units	Unit Price	Total Price/ Percentage
<u>1</u>	<u>Electrical Design</u>	<u>1 lump sum</u>	<u>\$33,742.56</u>	<u>\$33,742.56</u>

at the following price or percentage \$33,742.56 (SBE Prime or Subcontractor's Quote)

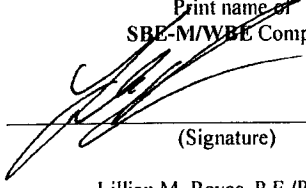
and will enter into a formal agreement for work with you contingent upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE subcontractor, please list the name of that subcontractor and the amount below.

Price or Percentage       n/a      

The Prime affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the work with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE subcontractor affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE subcontractors except as noted above.

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

Electrical Design Associates, Inc.  
Print name of  
SBE-M/WBE Company  
By:   
(Signature)  
Lillian M. Reyes, P.E./President  
Print name/title of person executing on behalf  
of SBE-M/WBE  
Date: 1/02/14



Attachment F  
OSBA SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE

This document must be completed by ALL SBE-M/WBE's and submitted with this bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: WUD 13-009

PROJECT NAME: Central Region Reclaimed Water Facility Improvements

TO: Cardinal Contractors, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise X

Minority Business Enterprise \_\_\_\_\_

Black \_\_\_\_\_ Hispanic \_\_\_\_\_ Women \_\_\_\_\_ Caucasian \_\_\_\_\_ Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: 12/28/12

The undersigned is prepared to perform the following described work in connection with the above project. Additional Sheets May Be Used As Necessary

Line Item/ Lot No.	Item Description	Qty/Units	Unit Price	Total Price/ Percentage
1	Structural Design	1 lump sum	\$17,000.00	\$17,000.00

at the following price or percentage \$17,000.00 (SBE Prime or Subcontractor's Quote)

and will enter into a formal agreement for work with you contingent upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE subcontractor, please list the name of that subcontractor and the amount below.

Price or Percentage n/a

The Prime affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the work with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE subcontractor affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE subcontractors except as noted above.

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

\_\_\_\_\_  
Alan Gerwig & Associates, inc.  
Print name of  
SBE-M/WBE Company

By: \_\_\_\_\_  
(Signature)

Alan Gerwig, President  
Print name/title of person executing on behalf  
of SBE-M/WBE

Date: 12/20/13

# ATTACHMENT G

## AUTHORIZATION STATUS REPORT

SUMMARY AND STATUS OF  
REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Consultant Project No.
	<b>CONSULTANT SERVICE AUTHORIZATIONS</b>					
CSA-1	Emergency Generator Storage at NROC	Approved	\$11,689.09	4/9/2012	11-012	11-4416.3
CSA-2	WTP 3 Chemical Containment Area and Corrosion Inhibitor Storage	Approved	\$49,987.17	4/30/2012	12-003	11-4416.2
CSA-3	Morikami Reclaimed Water Storage and Pumping Facilities Existing Equipment Evaluation	Approved	\$13,355.28	5/14/2012	11-027	11-4416.1
CSA-4	SCADA System Tower Improvements	Approved	\$92,999.24	10/24/2012	12-022	
	Total CSA's		\$168,030.78			
	<b>WORK AUTHORIZATIONS</b>					
WA-1	NROC Emergency Generator Storage	Approved	\$68,860.40	10/11/2012	11-012	11-4416.8
WA-2	SCADA System Tower Improvements	Approved	\$241,597.94	9/10/2013	12-022	31306-5002
WA-3	WTP No. 3 Degasifier No. 3 and Odor Scrubber	Approved	\$1,640,915.97	10/01/13	12-083	31306-5003
WA-4	Central Region Reclaimed Water Facility Improvements		\$854,451.81		13-009	
WA-5	RICE NESHAP Rule Compliance	Approved	\$1,456,144.81	11/19/13	13-075	31306-5005
	Total WA's		\$4,261,970.93			
<b>Total</b>			<b>\$4,430,001.71</b>			

# ATTACHMENT H

## AUTHORIZATION STATUS REPORT

SUMMARY OF  
SBE / MINORITY BUSINESS TRACKING SYSTEM  
Consultant Services Authorizations and Work Authorizations

### WORK AUTHORIZATION NO. 4

	Total	SBE
<b>Current Proposal</b>		
Value of Consultant Service Authorization	\$0.00	
Value of Work Authorization	<u>\$854,451.81</u>	
Value of Consultant Service & Work Authorizations	\$854,451.81	
Value of SBE Letters of Intent	\$140,742.56	\$140,742.56
Actual Percentage	16.47%	16.47%
<b>Signed / Approved Authorizations</b>		
Value of Consultant Service Authorizations	\$168,030.78	
Value of Work Authorizations	<u>\$3,407,519.12</u>	
Value of Consultant Service & Work Authorizations	\$3,575,549.90	
Total Value of SBE Signed Subcontracts	\$1,113,749.83	\$1,113,749.83
Actual Percentage	31.14%	31.14%
<b>Signed / Approved Authorizatons plus Current Proposal</b>		
Value of Consultant Service Authorizations	\$168,030.78	
Value of Work Authorizations	<u>\$4,261,970.93</u>	
Value of Consultant Service & Work Authorizations	\$4,430,001.71	
Total Value of Subcontracts & Letters of Intent	\$1,254,492.39	\$1,254,492.39
Actual Percentage	28.31%	28.31%
<b>GOAL</b>	<b>26.00%</b>	



**Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities**

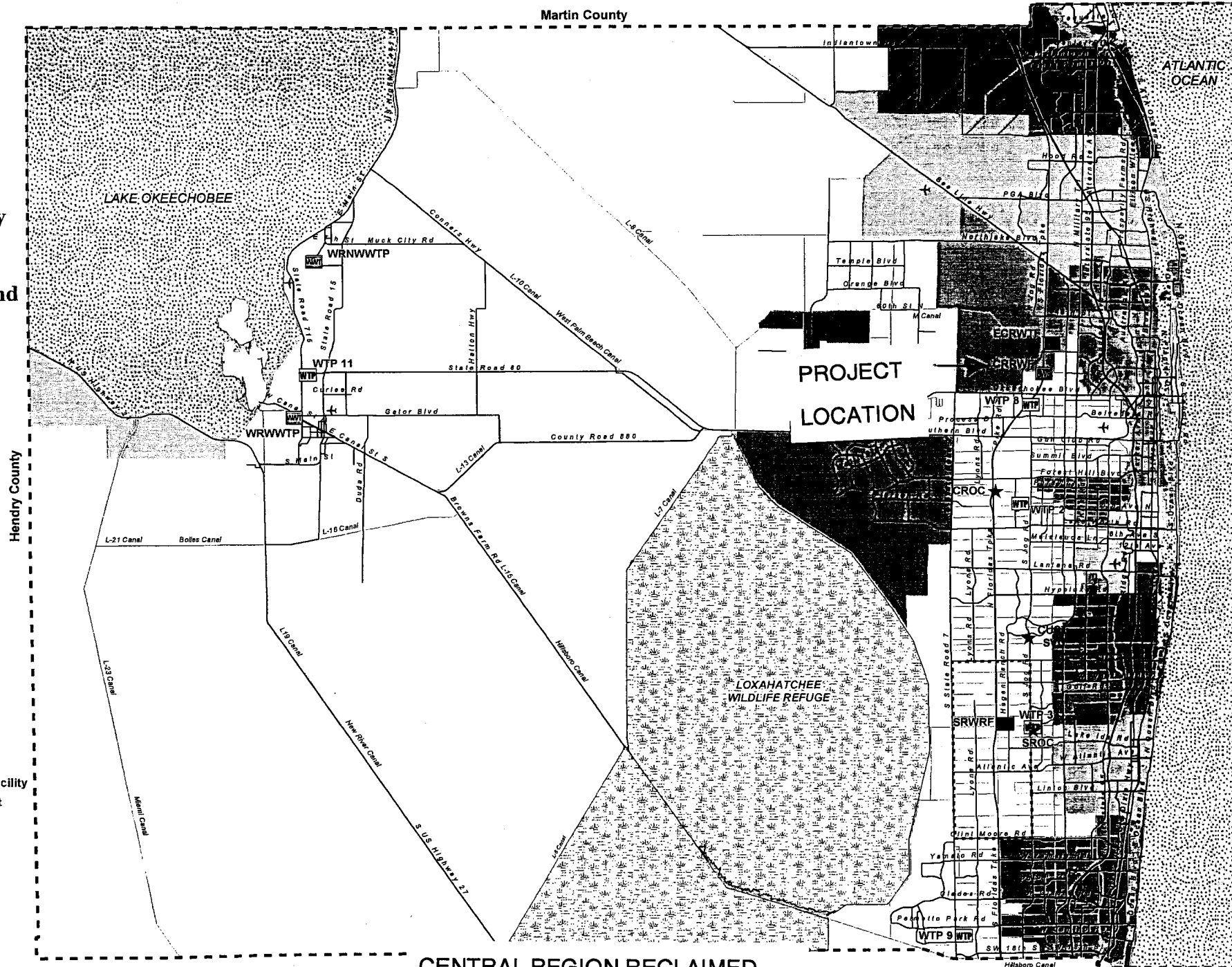
Attachment I

**Legend**

- ★ Administration
- WTP Water Treatment Plant
- RRF Reclamation Facility
- WWRW Wastewater Reclamation Facility
- WWTW Wastewater Treatment Plant
- Mandatory Reclaimed SA
- - - Palm Beach County Limits
- P.B.C.W.U.D. Service Area



NOT TO SCALE

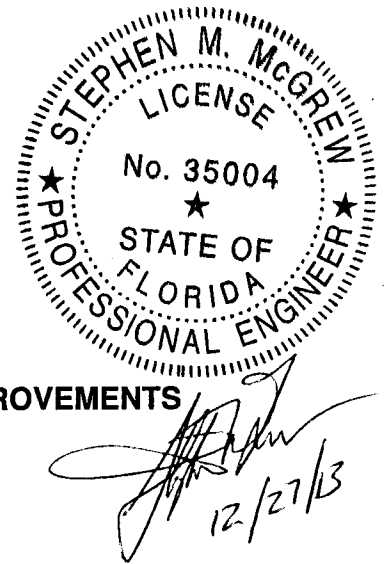


**CENTRAL REGION RECLAIMED  
WATER FACILITY IMPROVEMENTS**

Stephen McGrew, P.E.  
P. E. License #35004  
Palm Beach County  
Water Utilities Department  
8100 Forest Hill Boulevard  
West Palm Beach, FL 33413

ATTACHMENT J  
WORK AUTHORIZATION NO. 04

DESIGN CRITERIA  
FOR  
CENTRAL REGION RECLAIMED WATER FACILITY IMPROVEMENTS



Part 1 General

1.1 Summary of Work

The proposed work to be performed as described below is located at the following facility:

*Central Region Reclaimed Water Facility (CRRWF), 2969 Northampton Street,  
West Palm Beach, FL 33417, PCN 00-42-43-23-00-000-3010.*

Background: The CRRWF treats secondary effluent from the East Central Region Water Reclamation Facility (ECRWF). The FPL reclaimed water system also utilizes the secondary effluent at ECRWF. During high FPL reclaimed flow the pressure in the secondary effluent pipeline from ECRWF to CRRWF is not sufficient for the static lift into the filters and requires a booster pump to maintain constant flow. Additionally the secondary effluent at ECRWF does not have a strainer and the rags increase maintenance of the CRWRF cloth filters which is intended to be an unmanned facility. The proposed work to be performed by the Design-builder generally includes furnishing all labor, equipment, materials, tools, supervision, and services required to design, construct, test, and startup for influent strainer with booster pump, piping modifications and new building as follows:

1. Provide engineering evaluation to establish a system curve for owner provided desired capacity. Evaluation of existing electrical system.
2. Utilize existing reclaimed water jockey pump and VFD as the new Influent Booster Pump. Provide electrical disconnect near the pump. The booster pump shall have a flow paced loop with the VFD using operator adjustable set points from the SCADA system. Concrete equipment pad will be provided to support the proposed booster pump. The booster pump will be located near the northwest corner of the site. Provide full size bypass with check valve. Provide manual isolation valves on the pump so that the bypass can operate with the pump removed for servicing. Provide pressure transmitter on the pump suction. Provide pressure gauges on the pump suction and discharge.
3. The existing motorized plug valve at the filters will remain to provide back pressure to prevent cavitation of the influent booster pump and provide automatic shutdown of flow to the filters in the event of power failure. The pressure sustaining/automatic shutoff valve has been removed from the scope to reduce cost. Modifications/programming to provide emergency power to the existing valve will be performed by the county.
4. Install owner furnished influent strainer on new equipment pad on the discharge side of the influent booster pump near the northwest corner of the site. Rags and

large particles will be removed from the influent and a new pipeline shall be installed to lift station 5240. Lift station 5240 is a dry can station which is being converted to a submersible station under a separate project. Coordinate connection with LS 5240 wet well and pipeline flow requirements with Holtz Engineering. Provide 480V, 3 phase power with disconnect to the strainer. Owner will provide any required maintenance on the existing strainer. Electrical service will originate at the Main Power Panel (PP-1) and shall be extended to the strainer power panel. The panel shall be provided with the necessary starters, control power transformer, necessary breakers, protective devices, and circuitry as stated in the owner furnished strainer O&M. Design Build Entity shall install strainer and provide the manufacturers startup services.

5. Provide a check valve and automatic controls on the existing recirculation/rechlorination process. Additionally, the manually operated valves that are currently used to transition to the recirculation process will be provided with motorized operators (open-closed) with limit switches to provide automatic control with feedback through SCADA of this process.
  6. The electrical design will be based on the understanding that the existing electrical system has the needed spare capacity to support the proposed booster pump, the strainer with the elimination of the existing 25 HP Reuse Distribution pump. PBCWUD to provide 12 months' worth of FPL power bills for the facility for our use.
  7. Demolish the existing generator building from the original Century Village Wastewater Treatment Plant including all electrical equipment, diesel generator, fuel tank and building foundation.
  8. Provide a new building (total approximately 400 SF) partitioned into 2 sections, an office area and a storage area. The building shall either be precast concrete or concrete masonry unit with stucco. The air conditioned office area shall include unisex ADA compliant bathroom, office area with laboratory sink with counter and cabinets. Storage area shall include rollup door for storing golf cart used to transport reclaimed water samples. Building shall be designed for building code with Florida Product approval. Connect to existing water supply and sanitary sewer. Connect electric to the existing electrical building. It is our understanding that the proposed structure will be pre-wired to include a 100A, 3P Disconnect switch, 100A, 3P panelboard, HVAC, wiring devices and lighting and restroom facility.
  9. Provide instrumentation and control system for new equipment with all conduit and wiring to PLC. Provide additional I/O for PLC as necessary. PLC programming shall be contracted separately by Owner. Owner will also modify SCADA IFIX screens and panel view displays. Design is based on the understanding that the control system at the site has the available capacity to support the additional I/O; no I/O modules will be required. PBCWUD to provide the asbuilt panel drawings as prepared by the System Supplier.
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Project deliverables:

- A. Provide 3 full sized and 3 half sized plans at 60%, 90% and 100% design. Respond to all 60% and 90% review comments in writing.
- B. Submit for FDEP permit at 60% design with engineering report, signed and sealed drawings and permit application.
- C. Provide 3 sets of signed and sealed full sized prints for building permit. County will be responsible for site plan modifications and abstracted survey.
- D. Coordination meetings will be held at 60%, 90% and 100% design.
- E. Provide 8 sets of shop drawings beginning at 90% design.
- F. Provide record drawings CAD and PDF formats and 3 full size sets.
- G. Separate Notice to Proceeds will be issued for design and construction
- H. Construction meetings will be held monthly after notice to proceed.
- I. Conform to the Water Utilities Minimum Design and Construction Standards, Engineering Design-Manual and security requirements.
- J. Salvaged materials:
  - a. Scrap metal to be placed in the County's salvage dumpster.
  - b. Non-metal waste such as concrete, PVC, fiberglass etc to be hauled and legally disposed by Design-Builder.

## **1.2 Permits and Fees**

It shall be the Design-builder's responsibility to secure all permits required to complete the work under this contract, except permits obtained by the Owner. The Design-builder shall be responsible for all inspections and requirements to close-out the completed permits. The Owner shall pay all permit fees.

## **1.3 Tests**

The Design-builder shall pay for all required soils and concrete tests.

## **1.4 Site elevations, Lines, and Grades**

The Design-builder shall employ a land surveyor registered in the State of Florida. The Design-builder shall be responsible to establish elevations, lines, and levels, utilizing recognized engineering survey practices. The Design-builder shall provide all labor, instruments and stakes, templates, and other materials necessary for marking and maintaining all lines and grades. The Design-builder shall submit a copy of as-built drawings signed/sealed by the land surveyor that the elevations and locations of the work in Florida State plane coordinates are in conformance with the contract documents.

## **1.5 Work Area**

The Design-builder shall confine his activities to the site(s) designated by Owner for the work or staging areas for materials storage. All debris, materials, piping, and miscellaneous waste products from the proposed work shall be removed from the project as soon as possible. They shall be disposed of in accordance with applicable federal, state, and local regulations. The Design-builder shall be responsible for determining these regulations and shall bear all costs or retain any profit associated with disposal of these items.

The Design-builder shall protect his work throughout its length by the erection of suitable barricades and handrails, where required. The Design-builder shall further

indicate this work at night by the maintenance of suitable lights or flares, especially along or across thoroughfares. Wherever it is necessary to cross a public walk, the Design-builder shall provide suitable safe walkways with hand railings. The Design-builder shall also comply with all laws or ordinances covering the protection of such work and the safety measures to be employed therein. The Design-builder shall carry out his work so as not to deny access to private property. All utility access manholes, valves, and fire hydrants shall be kept accessible at all times. No trenches or holes near walkways, in roadways or road shoulders are to be left open during night hours without the permission of the Owner.

#### **1.6 Underground Utilities**

All water pipes, storm drains, force mains, gas or other piping, telephone or power cables or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from or supported across pipeline excavations. Before disconnecting any pipes or cables, the Design-builder shall obtain permission from the Owner, or shall make suitable arrangements for their disconnection by the Owner. The Design-builder shall be responsible for any damage to any such pipes, conduits or cables, and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power and telephone installations along route of new pipelines or in vicinity of the work are shown on as-built drawings, but must be verified in the field by the Design-builder. The Design-builder shall uncover these pipes, ducts, cables, etc., carefully, by hand, to verify location and depth of cover. Any discrepancies or differences found shall be brought to the attention of the Owner in order that necessary changes may be made. Where fences, walls or other man made obstructions exist illegally in the public right-of-way, the Owner will have them removed upon adequate prior notice by the Design-builder.

All excavation activity shall comply with Florida Statute 553.851 regarding notification of existing gas and oil pipeline company Owners and shall also notify "SUNSHINE STATE" at 1 (800)-432 4770 at least forty-eight (48) hours prior to excavating. Evidence of such notice shall be furnished to the Owner prior to excavating. Provide independent locate firm within plant and pump station boundaries.

Protect existing chemical trench and chemical piping.

#### **1.7 Maintenance of Operations**

The Design-builder's activities or any partial SCADA shutdowns shall minimize disruption to the treatment facilities and conveyance. The Design-builder shall schedule and perform the proposed work in a manner such that the Owner can keep the existing treatment and conveyance facilities in continuous dependable operation. Operation of all existing valves, gates and equipment shall be performed by Owner.

#### **1.8 Plant Shutdowns**

Owner shall approve all SCADA and plant shutdowns.

#### **1.9 Project Coordination**

Design-builder shall be solely responsible for coordination of all of the proposed work. He shall supervise, direct and cooperate fully with all sub-contractors, manufacturers,



fabricators, suppliers, distributors, installers, testing agencies and all others whose services, materials or equipment are required to ensure completion of the proposed work within the contract time.

Design-builder shall cooperate with and coordinate his work with the work of any other contractor, utility service company or Owner's employees performing additional work related to the project at the site. Design-builder shall not be responsible for damage done by Design-builders not under his jurisdiction. Design-builder shall not be liable for any such loss or damage unless it is through the negligence of Design-builder. Design-builder shall also coordinate his work with the work of others to assure compliance with schedules.

Design-builder shall attend and participate in all project coordination or progress meetings and report on the progress of all work and compliance with schedules.

The Design-builder shall provide and maintain a field office with telephone facilities where he or a responsible representative of his organization may be reached at any time while work is in progress.

## **Part 2 Acceptance Test Requirements**

The Design-builder shall be responsible for coordinating and completing the overall system startup and testing. The Design-builder is responsible for providing all labor, equipment, and materials for conducting systems startup and testing.

### **2.1 Starting and Placing Equipment in Operation**

Design-builder shall initially start-up and place all equipment installed into successful operation according to manufacturer's written instructions and as instructed by manufacturer's field representative. Design-builder shall provide all material, labor, tools, equipment, chemicals, lubricants, and expendables required to complete start-up. No system or subsystem shall be started up for continuous operation unless all components of that system or subsystem, including instrumentation, have been tested and proven to be operable as required for proposed work.

General system startup activities include: cleaning; removing temporary protective coatings; flushing and replacing greases and lubricants, where required by manufacturer; lubrication, checking shaft, and coupling alignments and resetting where required; checking and setting motor, pump and other equipment rotation, safety interlocks, and belt tensions; checking and correcting if necessary leveling plates, grout, bearing plates, anchor bolts, fasteners, and alignment of piping which may put stress on pumping equipment; performing any adjustments; providing chemicals and lubricants and all other required operating fluids; providing fuel, electricity, water, filters, and other expendables required for start-up of equipment.

Owner shall provide sufficient personnel to assist Design-builder in the start-up, but the prime responsibility for proper mechanical operation shall belong to Design-builder. Manufacturer's representatives shall be present during initial start-up and operation. Owner shall assume responsibility for operation of the equipment upon completion of start-up and placing equipment in operation.

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## **2.2 Minimum Start-Up Requirements**

- A. After system has been placed in operation the Design-builder shall clean strainers, drives, pockets, orifices, valve seats and headers in fluid system to assure freedom from foreign materials. He shall remove rust, scale and foreign materials from equipment and renew defaced surfaces. All visible leakage shall be repaired.
- B. The Design-builder shall check each electrical control circuit to assure that operation complies with regulations and requirements of proposed work and to provide desired performance. The Design-builder shall vent gasses trapped in any part of systems and verify that liquids are drained from all parts of gas or air systems.
- C. The Design-builder shall inspect for cleanliness, and clean and remove all foreign materials, verify alignment, replace defective bearings and those, which run rough or noisy, and grease as necessary and in accord with manufacturer's recommendations.
- D. The Design-builder shall adjust tension in V-belt drives, and adjust varipitch sheaves and drives for proper equipment speed, adjust drives for alignment of sheaves and V-belts, and clean and remove foreign materials before starting operation.
- E. The Design-builder shall check each motor for comparison to amperage nameplate value and correct conditions which produce excessive current flow and exist due to equipment malfunction.
- F. The Design-builder shall check glands and seals for cleanliness and adjustment before running pump; inspect shaft sleeves for scoring; inspect mechanical faces, chambers, and seal rings, and replace if defective; and verify that piping system is free of dirt and scale before circulating liquid through the pump.

## **2.3 Equipment Startup and Performance Testing**

The Design-builder shall be responsible for performance testing during startup of all mechanical, electrical, instrumentation, and piping equipment and systems.

- A. Provide a testing plan setting forth the sequence in which all testing work required for the proposed upgrades will be implemented.
- B. A documentation the results of all equipment and system tests and submit to the Owner. Provide calibration tags for all equipment certifying the date of calibration.

## **2.4 Instruction of Operations and Maintenance Personnel**

Training shall be provided prior to turning the operation of a system, unit process or piece of equipment. Training shall be scheduled for each plant staff work shift accordingly. No system, unit process or any piece of equipment shall be started up for continuous operation without the approved operation and maintenance manuals being turned over to Owner.

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Design-builder shall provide services of supplier's operation and maintenance training specialists to instruct Owner's personnel in recommended operation and maintenance procedures for products and equipment. Supplier may be required to provide a combination of classroom and field training. All training shall be conducted at the site, unless otherwise stated in the Specifications. Owner reserves the right to videotape training sessions.

Training of plant's personnel shall commence only after acceptable preliminary operation and maintenance data have been provided and starting and placing equipment in operation and equipment and system startup and performance testing, has been completed. Provide written documentation and checklists outlining important training items. Provide spreadsheets needed to document new processes for input by operators.

### **Part 3 Technical Requirements**

#### **3.1 Plant Site / Civil Requirements**

The Design-builder shall be responsible for becoming completely familiar with the site conditions in connection with developing the final site plan including all site investigations, analysis of subsurface conditions, geotechnical conditions, and soil borings.

#### **3.2 Demolitions**

Design-builder shall be responsible for all labor, materials, equipment and incidentals required for demolitions and pay for all disposal fees. Design-builder shall not start removals without the permission of the Owner. At least 48 hours prior to commencement of any demolition activities, the Design-builder shall advise the Owner, in writing, of the proposed schedule.

Design-builder shall carry out operations so as to avoid interference with Owner's operations and work in the existing facilities. Design-builder shall perform all demolition and removal work so as not to interfere with the use and safe passage to and from adjacent structures and shall prevent damage or injury to structures, occupants, and adjacent features, which might result from falling debris or other causes. Design-builder shall erect and maintain barriers, lights, sidewalk sheds, and other necessary protective devices. The Design-builder is responsible for repairing damage to the Owner's property or facilities.

Design-builder shall not bring explosives on site nor use explosives without written consent of authorities having jurisdiction. Design-builder shall use water sprinkling, temporary enclosures, and other suitable methods for dust control within the lowest practical level in compliance with governing regulations.

Surfaces of walls, floors, ceilings, or other areas, which are exposed by any of the removals, and which will remain as architecturally finished surfaces shall be repaired and re-finished by Design-builder with the same or matching materials as the existing adjacent surface. Adjacent structures, facilities, and improvements of dust, dirt, and

debris caused by demolition operations shall be cleaned and returned to pre-construction conditions.

Where piping that is to be removed passes through existing walls, the piping shall be cut off and properly capped on each side of the wall. When underground piping is to be altered or removed, the remaining piping shall be properly capped. Abandoned underground piping may be left in place and grouted under major structures/roadways, unless it interferes with the work. Any changes to potable water piping work shall be made in conformance with all applicable codes and under the same requirements as other underground piping.

All materials and equipment removed from existing work shall become the property of Design-builder, except for those which Owner has identified and marked for their use. All materials and equipment marked by the Owner for its use shall be carefully removed by Design-builder so as not to be damaged, and shall be cleaned and stored in a protected location specified by the Owner. Design-builder shall dispose of all demolition materials, equipment, debris, and all other items not marked by the Owner, off the work site and in conformance with all existing applicable laws and regulations. Upon completion of the work, all materials, equipment, waste, and debris of every sort shall be removed and premises shall be left, clean, neat and orderly.

### **3.3 Excavation and Backfill**

Design-builder shall furnish all labor, materials, equipment and incidentals required to perform all excavating, backfilling and disposing of earth materials required for the purpose of constructing structures, conduits, pipelines, grading, and other facilities required to complete the work in every respect.

Design-builder shall be solely responsible for designing, installing, operating and maintaining whatever system is required to satisfactorily accomplish all necessary sheeting, bracing, protection, underpinning and dewatering.

Design-builder shall be responsible for all field test data and shall submit to Owner copies of the following test reports from his testing laboratory.

Design-builder shall perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction. Design-builder shall obtain all necessary permits for work in roads, rights of way, etc. He shall also obtain permits as required by local, state and federal agencies for discharging water from excavations. The use of explosives will not be permitted.

Data on subsurface conditions will be made available by Owner for the convenience of Design-builder. The reports are not intended as a representation or warranty of continuity of such conditions between soil borings. Owner will not be responsible for interpretations or conclusions drawn by Design-builder. Additional test borings and other exploratory operations may be made by Design-builder at no cost to Owner.

Drawings from existing records showing certain surface and underground structures adjacent to the work will be made available by Owner. It is not guaranteed to be correct or complete and is shown for the convenience of the Design-builder. Design-builder shall explore ahead of the required excavation to determine the exact location of all structures. They shall be supported and protected from injury by the Design-builder. If they are broken or injured, they shall be restored immediately by the Design-builder at its expense.

Design-builder shall locate existing underground utilities in the areas of work. If utilities are to remain in place, Design-builder shall provide adequate means of protection during earthwork operations. If uncharted or incorrectly charted piping or other utilities are encountered during excavation, Design-builder shall consult the Owner immediately for directions as to procedure. Design-builder shall cooperate with Owner and utility companies in keeping respective services and facilities in operation. Design-builder shall repair damaged utilities to the satisfaction of Owner.

Design-builder shall not interrupt existing utilities serving facilities occupied and used by Owner or others, except when permitted in writing by Owner and then only after acceptable temporary utility services have been provided.

### **3.4 Cast-In-Place Concrete**

Design-builder shall be responsible for providing concrete consisting of portland cement, fine and coarse aggregate, water, and approved admixtures; then combined, mixed, transported, placed, finished and cured to accommodate the proposed work. All admixtures, curing compounds, etc. used in concrete or the curing and repair of concrete, which can contact potable water, shall be certified as conforming to the requirements of ANSI/NSF 61 for contact with potable water when in the finished concrete.

### **3.5 Miscellaneous Metals**

All metals shall be non-ferrous except of steel reinforcing and as approved by the Owner. All bolt, nuts and washers shall be 316 stainless steel the nuts shall be coated to prevent galling. Anchor bolts shall be 316 stainless steel. Stanchions, pipe supports, equipment bases, braces and straps shall be 316 stainless steel or aluminum.

### **3.6 Painting**

Design-builder shall provide all labor, materials, tools, equipment, and incidentals as required to furnish and apply paint systems for surface preparation and painting of all new and existing interior and exterior items and surfaces throughout the project areas. Mechanical and process items to be painted include new and existing walls, floors, piping, mechanical equipment, supports, and any pertinent accessory items or area damaged by the construction activity. Owner's approval shall be required for all components of the surface preparation, selection of colors, and paint system application before start of proposed work.

## **Part 4 Electrical Requirements**

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#### **4.1 Basic Requirements**

Design-builder shall design and provide all labor, materials, equipment and incidentals to complete the electrical work. All systems shall be properly grounded. Exterior systems shall have lightning protection.

#### **4.2 Codes**

Material and equipment shall be installed in accordance with the current standards and recommendations of the National Electrical Code, the National Electrical Safety Code, and with local codes, which apply. Where discrepancies arise between codes, the most restrictive regulation shall apply.

#### **4.3 Area Classifications**

##### **A. Wet Locations**

The following areas shall be considered wet locations:

1. All outdoor areas.
2. All indoor areas below grade unless otherwise specified.
3. Materials, equipment and incidentals in areas identified as wet locations shall meet NEC and NEMA requirements for wet locations. Enclosures shall meet NEMA 4 requirements as a minimum. Conduits shall be terminated at enclosures with watertight, threaded hubs.

##### **B. Corrosive Locations**

All chemical storage and pumping areas or rooms. Materials, equipment and incidentals in areas identified as corrosive shall meet NEC and NEMA requirements for corrosive locations. Conduit systems shall be PVC and enclosures shall meet NEMA 4X requirements. Conduits shall be terminated at enclosures with watertight hubs. Independent supports shall be PVC-coated galvanized steel, or fiberglass-reinforced epoxy struts.

#### **4.4 Electrical Equipment**

All new electrical equipment shall be capable of operating successfully at full-rated load, without failure, with an ambient outside air temperature of 0 degrees F to 122 degrees F and an elevation of 400 feet (MSL). All electrical devices and equipment shall have ratings based on 75 degrees C terminations. All electrical equipment enclosures at a minimum shall meet NEMA 12 requirements.

#### **4.5 Schematic Diagrams**

Schematic diagrams shall be prepared by the Design-builder to act as guidance in fulfilling the operational intent of the conceptual documents. It shall be the Design-builder's responsibility to meet all safety and electrical codes, and to provide all equipment, appurtenances and specialty items required to provide for complete and operable systems. Review of control schemes submitted by Design-builder shall not relieve Design-builder of their contractual responsibility to provide complete and successfully operating systems.

#### **4.6 Raceway Systems**

Design-builder shall furnish and install conduit and fittings to form complete, coordinated and grounded raceway systems. Design-builder shall provide for the proper installation of all conduits for each system.

- A. Rigid aluminum conduit for exposed indoor conduit runs in non-corrosive areas and rigid aluminum at all other sites.
- B. PVC Schedule 80 for individual conduit runs direct buried in earth and PVC coated rigid steel at all other sites (minimum 24-inch burial depth).
- C. Schedule 40 PVC for conduit runs embedded in or under structural concrete slabs or in concrete ductbanks (all sites).
- D. PVC schedule 80 conduit for exposed indoor and outdoor runs in corrosive areas and PVC coated rigid steel at all other sites.
- E. Flexible conduit for connections to motors and equipment.

#### **4.7 Inspections, Testing and Adjustments**

Accompany the normal installation tests with inspections to demonstrate to the satisfaction of the required judicial authorities the following:

- A. Connections: All circuits are properly connected in accordance with the drawings and applicable approved shop drawings.
- B. Operation: All circuits and devices are operable.
- C. Identification: All conductors are properly identified at each terminal.

Test each electrical circuit after permanent cables are in place to demonstrate that the circuit and connected equipment perform satisfactorily and that they are free from improper grounds and short circuits. Individually test 600-volt cables for insulation resistance between phases and from each phase to ground. Test after cables are installed and before they are put in service with a Megger whose rating is suitable for the tested circuit. Tests shall meet with the applicable specifications of ICEA S 66 524 and NEMA WC7 1971. The insulation resistance for any given conductor shall not be less than 1 megohm for 600 volt and less service. Any cable not meeting this value or which fails when tested under full load conditions shall be replaced with a new cable for the full length.

Test shielded instrumentation cable shields with an ohmmeter for continuity along the full length of the cable and for shield continuity to ground. Connect shielded instrumentation cables to a calibrated 4-20 milliamp DC signal transmitter and receiver. Test at 4, 12, and 20 milliamp transmitter settings.

Test the completed ground systems for continuity and for resistance to ground using an electrical ground resistance tester. Ground system resistance must be less than 5 ohms. Add up to two additional rods, spaced at 20 feet minimum from other electrodes, until resistance is less than 5 ohms.

Operate all starters, circuit breakers and associated equipment to demonstrate suitability and compliance with Specifications and reference standards, except for short circuit interrupting rating or other inherent design features covered by shop tests. Test all motors for direction of rotation and reverse connections if necessary. Check control

circuits to determine that operation and sequence are correct and adjust limit switches, pressure switches, float switches, timers and other devices to give proper operation.

## **Part 5 Instrumentation and Control Requirements**

### **5.1 General**

Design-builder shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish, install, calibrate, test, start-up and place in satisfactory operation a complete and operating system for proposed work, including programming of the PLC, SCADA, and all required wire terminations. Tag number, equipment number, and description shall match the Owners numbering convention standards.

### **5.2 Calibration, Start-Up and Testing**

Field verify the calibration and performance of each instrument prior to start-up of the associated equipment, and document on a separate sheet for each.

### **5.3 System Check-Out and Start-Up Responsibilities**

Design-builder shall retain the services of the system supplier to supervise and/or perform check out and startup of all system components. As part of these services, the system supplier shall coordinate and include check-out and start-up for those equipment items not manufactured or provided by him. The services of an authorized manufacturer's representative to check the equipment installation and place the equipment in operation may be required. The manufacturer's representative shall be thoroughly knowledgeable about the installation, operation and maintenance of the equipment.

Check and approve the installation of all instrumentation and control system components and all cable and wiring connections between the various system components prior to placing the various processes and equipment into operation. Conduct a complete system checkout and adjustment, including calibration of all instruments, tuning of control loops, checking operation functions, and testing of final control actions. When there are future operational functions included in this work, they should be included in the system checkout. All problems encountered shall be promptly corrected to prevent any delays in startup of the various unit processes.

System supplier shall provide all test equipment necessary to perform the testing during system checkout and start up. Design-builder and system supplier shall be responsible for initial operation of monitoring and control system and shall make any required changes, adjustment or replacements for operation, monitoring and control of the various processes and equipment necessary to perform the functions intended.

Design-builder shall furnish to the Owner certified calibration reports for field instruments and panel mounted devices specified in this Section as soon as calibration is completed. Design-builder shall furnish Owner an installation inspection report certifying that all equipment has been installed correctly and is operating properly. The report shall be signed by authorized representatives of both Design-builder and the system supplier.



#### **5.4 Instrumentation and Control System Field Test**

Following the plant monitoring and control system checkout and initial operation, system supplier, under the supervision of the Design-builder, shall perform a complete system test to verify that all equipment and programmed software is operating properly as a fully integrated system, and that the intended monitoring and control functions are fully implemented and operational. Any defects or problems found during the test shall be corrected by system supplier, and then retested to demonstrate proper operation. Following demonstration of all system functions, the plant monitoring and control system including field sensors/transducers and instruments, and telemetry system shall be running and fully operational for a continuous 72 hour period.

#### **5.5 Control Panels and Enclosures**

Control panels located inside control or electrical room areas shall be NEMA 12 rated unless differently noted on drawings. All others shall be stainless steel or non-metallic NEMA 4 except in corrosive areas, which shall be NEMA 4X. Provide panel ventilation or air conditioning if required by ambient conditions. Use pan type construction for doors. Door widths shall not exceed 36-inches. Exterior panel with displays shall face north. Exterior control panels shall be 316 stainless steel with powder coated white epoxy exterior finish with sunshield.

#### **5.6 Surge Protection**

Surge protection shall be provided to protect all electronic instrumentation from surges propagating along the signal, telephone, and power supply lines. Locate the suppression device as close as possible to the load device. The protection systems shall be such that the protection level shall not interfere with normal operation, but shall be lower than the instrument surge withstand level, and be maintenance free and self-restoring. Instruments shall be housed in suitable metallic cases, properly grounded. Ground wires for all surge protectors shall be connected to a good earth ground and where practical each ground wire run individually and insulated from each other.

#### **5.7 Lightning Protection**

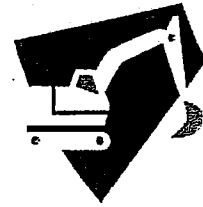
Furnish and install UL certified lightning protection system including grounding system. Grounding grid resistance shall be 5 ohms or less.

---

ATTACHMENT K  
SUPPORTING DOCUMENTATION



GENE CONTRACTING DEMOLITION, INC.  
3831 W. State Road 84, Ste #101, Davie FL 33312  
Office (954) 587-3956 Fax (954) 587-6678  
Email: [genecontracting@bellsouth.net](mailto:genecontracting@bellsouth.net)



August 26, 2013

Cardinal Contractors, Inc.  
5365 Stirling Road  
Ft-Lauderdale, FL 33314

Attn: Vincent Capuozzi, Project Estimator - [vcapuozzi@cardinalco.com](mailto:vcapuozzi@cardinalco.com)  
Phone: (954)587-0520

Re: Central Region RWF – Project No. WUD 13-009  
2969 Northampton Street  
West Palm Beach FL 33417

Bid Item as Listed Below:

- . Demolition; Removal and Disposal of all debris off site as indicated on the site visit with Vincent Capuozzi of Cardinal.
- . To include the following items:
  - Demolish and Remove a CBS building with all associated slab and foundations.
  - Existing generator to be salvage and transported to a destination location no more than 50 mile from site.
  - Generator slab and above fuel tank to be remove and dispose off.
  - If fill is needed , it will be supplied

**PRICE QUOTE: \$ 14,500.00**

- \*All Surveys and/or removal/disposal of asbestos and/or any hazardous; Regulated and contaminated materials by others.
- \*All Permits to be provided by owner and/or General Contractor.
- \*All Lay-out (if any) to be provided by General Contractor or others.
- \*All Disconnects and capping of MEP by General Contractors or others..
- \*All Demolition Salvage to be the property of Gene Contracting Demolition, Inc.

If you have any questions or concerns, please contact Jean Meunier at (954) 205-0384.

“Terms are Proposal Quote is valid for 60 Days from above date”

# THE MACK COMPANY

17088 GULF PINE CIRCLE  
WELLINGTON, FL 33414  
561-798-3131

December 17, 2013

Mr Mike Brandao  
Cardinal Contractors  
5365 Stirling Rd  
Ft Lauderdale, FL 33314

Subject: S P Kinney Strainer Startup Service

Dear John,

The Mack Company will provide startup services for the S P Kinney Automatic Backwashing Strainer, relocated to the Central County Reuse Facility by Century Village in West Palm Beach. Services will include equipment inspection, initial startup, and training of operators

TOTAL PRICE.....\$ 1,500.00 per day. Price does not include any taxes is payable  
100% net 30 upon completion of start up.

Please let me know if you have any questions or need additional information.

Yours Truly,

James R Wahl  
Vice President



[www.oldcastleprecast.com](http://www.oldcastleprecast.com)

27 Amlajack Blvd  
Newnan, GA 30265

Phone (770) 304-4656  
Fax (770) 304-4640  
[tammy.storey@oldcastle.com](mailto:tammy.storey@oldcastle.com)

August 2, 2013

Justin Randolph  
Cardinal Contractors  
10405 Technology Terrace  
Lakewood Ranch, FL 34211

Central Region Reclaimed Water D.B.

**Quote 21-1964**

Oldcastle is pleased to provide **Cardinal Contractors** pricing to manufacture and supply our **RCS1234** precast concrete shelter. We have configured this shelter based on the information and/or specifications submitted to us; however, please review the following scope of work carefully as we are quoting only what is specifically listed in that scope.

With over thirty years of experience in the precast shelter industry, Oldcastle will exceed your expectations in quality and service.

In the event that you require additional information or clarification, please contact me at 770.304.4656 or e-mail: [tammy.storey@oldcastle.com](mailto:tammy.storey@oldcastle.com). I look forward to working with you to satisfy your shelter needs.

Sincerely,

*Tammy Storey*

Tammy Storey  
Account Executive / Sales  
Oldcastle Precast  
Newnan, GA

Delivering Reliability

Enclosures: Scope of Work, Terms and Conditions, Pricing

## SCOPE OF WORK

### I. Precast Structure

#### **A. Structure Engineering**

- ◆ Drawings: Detailed engineering and drawings will be provided for all items in this Scope of Work. The structural drawings will be stamped by a professional engineer registered in the state of building placement.
- ◆ State Approvals: Oldcastle will receive state approval as required. As such, Oldcastle reserves the right to amend the proposed Scope of Work to comply with any code or regulation required to obtain state approval.
- ◆ Exclusions: Local/municipal inspections and approvals, including site inspections, building permits, and zoning approvals (except as discussed herein) are not included. Oldcastle is not responsible for determining such local requirements.

#### **B. Precast Concrete Shell**

- ◆ Size: (1) RCS 1234 concrete shelter  
Outside dimension – 34'-0" Long x 11'-8" Wide x 10'-1" High  
Finished inside dimension – 33'-0" Long x 10'-8" Wide x 9'-0" High
- ◆ Weight: Approximate finished weight: 82,000 pounds
- ◆ Specifications: Floor load: 200 PSF  
Roof load: 60 PSF  
Wind load: 150 MPH, Exp "C"
- ◆ Bullet Resistance: UL752 Level 4 equivalent
- ◆ Seismic Zone: Up to 50% gravity acceleration per IBC2010 specifications ( Higher ratings are available up to 300% gravity acceleration)

#### **C. Finishes**

- Exterior Walls: Solid Precast Concrete, 4" Thick with Exposed aggregate with tinted sealer and Tan trim
- Interior Wall & Ceiling: White 1/2 " FRP in office area, Painted in storage area
- Insulation: R-11 in walls and ceiling in office area, None in storage area
- Telco Board: None Requested
- Floor: Vinyl composition tile with rubber base molding
- Roofing: White Elastomeric coating

**\*\*Note:** Oldcastle standard interior finish is quoted

**\*\*Note:** Many states have adopted or will be adopting new energy codes which may require additional interior insulation. If additional insulation is required, a change order will be needed to cover these additional costs.

#### **D. Doors and Openings**

- Doors: (1) 3'-0" x 7'-0" 16 gauge steel door with 14 gauge steel frame  
(1) 7'-0" x 7'-0" Steel manual rollup door
- Locks: Lockset with changeable core
- Other Door Hardware: (1) NRP Stainless steel hinges, anti pick plate; door holder, hydraulic door closure, weather strip, aluminum threshold; door sweep
- Door Hood: (1) Door drip cap – 2 1/2" wide
- Openings: Floor and wall block-outs to be determined by customer, but cannot exceed the structure's design limitations

**E. Power**

- Power Service: Not Supplied (will be connected to existing building service)
- Disconnect Switch: (1) SqD 100A 1Ø 120/240V Exterior Disconnect Switch
- Generator: None Requested
- Automatic Transfer Switch: None Requested
- Generator Receptacle: None Requested
- Manual Transfer Switch: None Requested
- Main Distribution Panel: (1) SqD 100A 1Ø 120/240V, 24 space
- DC Distribution Panel: None Requested
- Sub Distribution Panel: None Requested
- Surge Suppression: None Requested
- Convenience Receptacles: (10) 20A, 125V
- Exterior GFI Receptacle: (1) 20A, 125V
- UPS / DC Power: None Requested
- Other: None Requested

**F. Environmental System**

- HVAC: (1) 4 Ton 1Ø HVAC Units with 5kw heater and economizer
- Controls: (1) 7-day Programmable Thermostat
- Heater: None Requested
- Vents: None Requested

**G. Alarms** **None Requested****H. Lighting**

- Interior: (12) 4ft.- 2 Lamp (32W each) fluorescent light fixtures with acrylic lens covers
- DC Lights: None Requested
- Exterior: (1) 100W Incandescent Exterior light with motion sensor and photocell
- Emergency: (1) Emergency fixture with dual flood lights
- Switches: (4) 20A light switches
- Timer: None Requested

**I. Cable Ladder** **None Requested****J. Grounding** **None Requested****K. Bathroom and Office Items**

- Toilet: ADA compliant Vitreous China Toilet package (4TMG8,4TMH1,4TMH8)
- Sink: ADA compliant Vitreous China wall hung sink (10J133)
- Mirror: 18" x 30" (6MXY7)
- Wall Light: Dual bulb 60W downlight wall fixture (4UZH3)
- Bathroom Accessories: SS Grab bar, toilet tissue dispenser
- Laboratory Sink: SS Single Bowl – 25"W (13G621)
- Laboratory Faucet: Gooseneck single supply (5UTT4)
- Cabinets: (1) 35"H x 36"W x 24"D White Laminated Sink Base Cabinet  
(5) 35"H x 36"W x 24"D White Laminated Door & Drawer Base Cabinet  
(5) 30"H x 36"W x 12"D White Laminated Double Door Wall Cabinet

**L. Additional Items**

- Fire Extinguisher: (2) 10 LB. ABC Fire extinguisher
- Chemical Station: None Requested
- Tie Down Kit; Tie down kit with anchors.
- Fire Suppression: None Requested
- First Aid Kit: None Requested
- Eye Wash Station: None Requested
- Battery Safety Kit: None Requested
- Other: (1) Shelter Manual

**\*\*Note:** Plumbing and Electrical connections to existing utilities will be made on site by others



**II. Delivery / Freight**

- A. Precast structure price is quoted FOB plant
- B. The delivery price quoted is to the indicated location only and is only good for 60 days from the date of quote.
- C. Delivery is to occur on weekdays during normal daylight working hours.
- D. Proper site conditions, including clear access roads and a reasonably level surface, so that vehicles, trucks, and cranes can safely maneuver under their own power.
  - i. All roads, crossing, and load bearing surfaces to be able to accommodate a vehicle with a gross weight of 160,000 pounds.
  - ii. Required turning radius for a 70-foot tractor-trailer and minimum 150-ton crane.
  - iii. No overhead power lines, obstructions or overhanging trees that could block the maneuverability of equipment.
- E. Routing: If for any reason the original directions are changed, Oldcastle reserves the right to revise the charges for additional mileage and or additional permit fees.
- F. Fuel Surcharges: Oldcastle reserves the right to adjust freight charges in the event a fuel surcharge is imposed after the original quote date.

**III. Crane Service**

- A. All crane charges will be invoiced at cost plus 25%. The pricing for crane service is only an estimate. It is based on product weight and the proper sizing of the crane assuming the crane can get within the normal working radius of the "center point."

**IV. Field Setting Service**

- A. By others, Oldcastle can provide this service for an additional fee.

**V. Services**

- A. The following items are **excluded** and need to be provided by others.
  - i. Overall project management and on-site supervision
  - ii. Real estate services
  - iii. Site design and permitting and obtaining building codes
  - iv. Site work, fencing and landscaping
  - v. On-site soils investigation and foundations
  - vi. On-site electrical and mechanical
    - a. Utility transformer (confirmation of phase and type of electrical service), transformer pad / pole, right of way work, boring / street excavation and duct bank work, meter base installation and all final electrical connections
    - b. External grounding systems
    - c. Sewer and water work, if needed
  - vii. Electronic equipment integration
  - viii. On-going repair and maintenance and upgrades
- B. If needed, Oldcastle can provide some or all of these services as part of a turn-key installation.

## TERMS AND CONDITIONS

### Approved Drawings

1. **Preliminary Drawings:** Preliminary drawings will be furnished within two weeks from receipt of an acceptable executed copy of this quotation contract and a Purchase Order
2. **Customer Approved Drawings:** Customer must sign and return approved drawings.
3. **State Approved Drawings/Product Lead Times:** Oldcastle will submit for state approvals immediately after receipt of Customer Approved Drawings, as required. Please note that Oldcastle has no control over time lines for state approvals. In the past 12 months, the average time for state approvals has been 4 weeks. The product delivery date will be dependent on current production demands after State approval and will be estimated at time of receipt of Purchase Order.

### Change Orders

1. **Change Orders:** Any change after Customer Approved Drawings will be considered a change order and will jeopardize the delivery date of the structure and be subject to additional charges, including:
  - a. **Additional Engineering / CAD Work:** To be charged at \$65.00 per hour.
  - b. **Additional Project Management Time:** To be charged at \$85.00 per hour.

### Conditions of Sale

1. This proposal is offered for acceptance and shall be valid for sixty (60) days from the date of quote.
2. Oldcastle will review customer's credit and reserves the right to require special payment terms or reject Purchase Orders due to poor credit history.
3. Executed orders are not subject to cancellation by buyer except by written agreement with the seller.
4. The information contained herein is proprietary and strictly confidential.
5. This Scope of Work and Pricing supersedes all prior proffers, both written and verbal.

### Inspection and Acceptance

1. All precast structures must be inspected and signed for by the customer at delivery for visible signs of damage to the structure and/or items inside the structure.
2. All applicable state and local inspections of the precast structure and/or approvals by third parties must take place at delivery. Otherwise, the structure will be considered to be acceptable at delivery.
3. All service work must be inspected and accepted immediately upon completion.

### Warranty

1. Oldcastle provides a limited warranty (available on request) which can be summarized as follows:
  - a. Ten (10) year structural precast concrete limited warranty
  - b. One (1) year limited warranty for quality and workmanship of any services performed by Oldcastle
  - c. One (1) year limited warranty for equipment manufactured and/or installed by Oldcastle
  - d. Warranties on equipment (HVAC, electrical and lighting devices, etc.) not manufactured by Oldcastle will be passed through Oldcastle from the manufacturer to the customer
2. All other warranties, express or implied, with respect to the shelter, including without limitation, warranties of merchantability and fitness or suitability for a particular purpose are hereby disclaimed.

### Payment

1. Invoices will be submitted at the time the precast structure ships. Payment is due within 30 days. All sums not paid when due shall be subject to a 1.5% per month interest charge on past due balances.
2. If the precast structure is completed on the agreed to ship date and the buyer cannot receive it for any reason, the customer may be invoiced for the structure and payment will be due in 30 days.
3. If the structure still has not shipped 30 days after the scheduled ship date, storage charges of \$10.00 per day per section will be assessed. Additional maintenance charges may also be incurred at time of delivery.
4. If payment is not made on a timely basis, Oldcastle reserves a security interest in the precast structure as well as the right to take repossession and title to the structure if payment is not forthcoming.
5. Payment due Oldcastle shall not be dependent upon payment from any other party except where it can be shown that funds were withheld due to the workmanship of Oldcastle.
6. No retainage shall be deducted from payment.
7. Any applicable Federal, State or Local Taxes are not included.

Based on the attached Scope of Work and subject to the Terms and Conditions, our pricing is as follows:

QUANTITY	PRODUCT / SERVICE DESCRIPTION	UNIT PRICE	EXT. PRICE
1	RCS1234 Precast Equipment Shelter	\$55,145	\$ 55,145
1	Wet Stamped Engineering Drawings(Qty of up to three with each shelter)	No Charge	
	Additional Wet Stamped Drawings (Qty three or less)	\$350 Each	
1	Freight charges to jobsite in West Palm Beach, FL	\$5,601	\$ 5,601
	<b>TOTAL</b>		<b>\$ 60,746</b>

QUANTITY	OPTIONAL PRODUCTS/SERVICES	UNIT PRICE	EXT. PRICE
1	Crane and Set Fee	\$14,314	\$ 14,314
	<b>TOTAL</b>		

**Clarifications**

- **Taxes:** Any applicable Federal, State or Local Taxes are not included.
- **Transportation Pricing:** Based on fluctuating fuel costs, Oldcastle reserves the right to amend the quoted freight pricing. In the event of fuel cost escalation, we reserve the right to re-quote freight pricing based on current fuel cost at time of shipment.

*To accept this proposal, Please initial and sign this quotation and fax back with your Purchase Order and a sketched floor plan to Oldcastle Precast Communications.*

Accepted By: \_\_\_\_\_

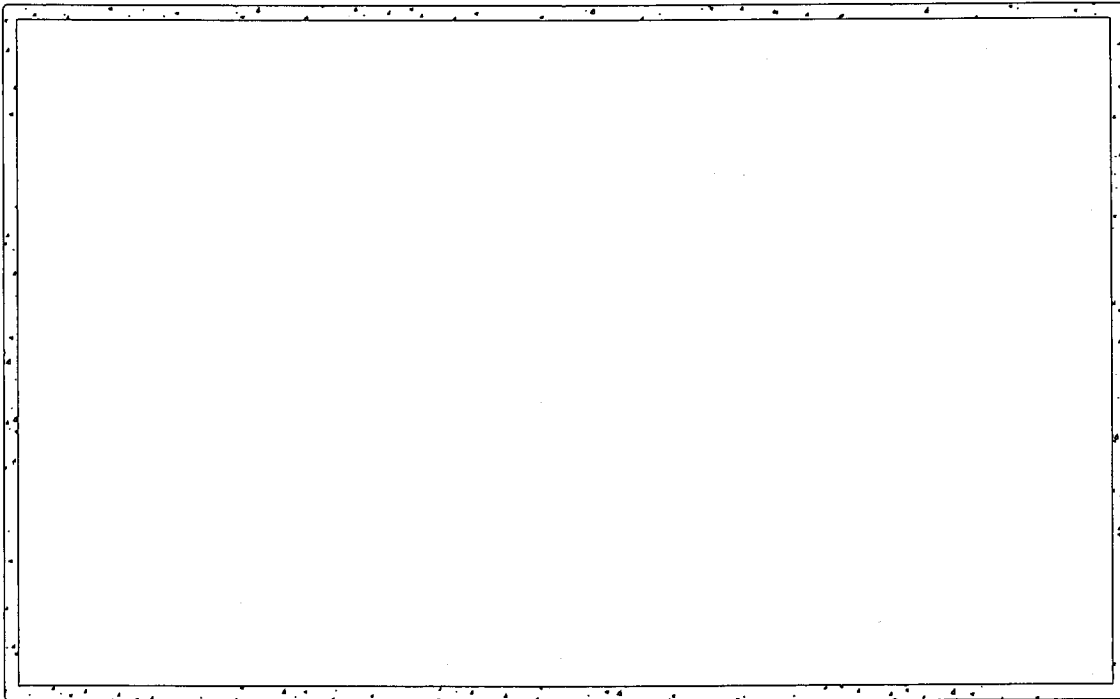
Date: \_\_\_\_\_

## FLOOR PLAN LAYOUT

Using the plan view diagram below, sketch out the location of the following items:

- Power entry
- Doors
- HVAC's
- Block-outs
- Major electrical / power equipment
- Lights
- Receptacles

Floor Plan



COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS	
								LABOR	MH	LABOR	TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
	Central Regional R.W.F.			UP	TOTAL	UP	TOTAL	UNIT		RATE							
	PROJECT TOTALS				\$7,097		\$149,929		1620		\$0		\$3,750		\$22,150		\$182,926
																	\$182,926
	Mechanical Piping				\$7,097		\$149,929		1,620		\$0		\$3,750		\$22,150		\$182,926
																	\$182,926
	MATERIALS / LABOR TAKEOFF SHT	LS	1		\$0		\$140,779		1029	0.00	\$0		\$0		\$0		\$140,779
	EMO START-UP & TRAINING	EA	3		\$0		\$0		0	0.00	\$0		\$3,460		\$0		\$3,460
	PIPE DISINFECT, TEST	LF	520	0.5	\$260		\$0		64	0.00	\$0		\$0		\$0		\$260
	TIE-INS	EA	6	75.0	\$450		\$0		96	0.00	\$0		\$0	125	\$750		\$1,200
	EX PIPE DEMOLITION	LF	40		\$0		\$0		32	0.00	\$0		\$0		\$0		\$0
	PIPE BEDDING 67 STONE / SAND	TON	60	22.6	\$1,126		\$0		0	0.00	\$0		\$0		\$0		\$1,126
	DEWATERING GRAVEL	TON	18	22.2	\$399		\$0		0	0.00	\$0		\$0		\$0		\$399
	BACKFLOW CERTIFY	EA	1		\$0		\$0		0	0.00	\$0		\$300		\$0		\$300
	POTHOLE UNLOAD PIPE	LS	1		\$0		\$0		80	0.00	\$0		\$0		\$0		\$0
					\$0		\$0			0.00	\$0		\$0		\$0		\$0
	EXCAVATOR	MOS	2.0		\$0		\$0		160	0.00	\$0		\$0	4800	\$9,600		\$9,600
	VIB ROLLER	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	WALK BEHIND	MOS	2.0		\$0		\$0			0.00	\$0		\$0	1200	\$2,400		\$2,400
	LOADER 3YD	MOS	2.0		\$0		\$0		160	0.00	\$0		\$0	3800	\$7,600		\$7,600
	STAKE BODY	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	JOB PICK-UP	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	STORAGE TRAILER	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	TRENCH BOX	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	DEWATERING OPEN PUMPING	MOS	1		\$0		\$0			0.00	\$0		\$0	1800	\$1,800		\$1,800
										0.00							
	FUEL, OIL, LUBE	LS	1	4430.0	\$4,430		\$0		0	0.00	\$0		\$0		\$0		\$4,430
	SALES TAX	PCT	0.005		\$433		\$9,161			0.00	\$0		\$0		\$0		\$9,084
	SMALL TOOLS & SUPPLIES	LS	1	0.0	\$0		\$0			0.00	\$0		\$0		\$0		\$0

12:14 PM

Page 2

12:14 PM





New Building																														
Potable Water																														
15067	PVC 3M DIA PIPE																													
	PVC SCH 80 SW PIPE	1"	20	0.12	0.85	\$13	2	80	10.00	10.00	12.00	8.00	1.50	2.50	2.50	11	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 SW PIPE	2"	80	0.15	1.50	\$90										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
15067	PVC 3M DIA FITTINGS:																													
	PVC SCH 80 90 90 BEND	1"	2	0.19	1.13	\$2										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 45 BEND	1"	2	0.19	2.13	\$4										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 TEE	1"	1	0.25	3.33	\$3										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 COUPLING	1"	1	0.19	2.76	\$3										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 MALE / FEMALE ADAPTOR	1"	2	0.25	2.82	\$5										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 MISC REDUCER	1"	8	0.19	0.68	\$0										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 UNION	1"	8	0.25	4.53	\$0										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 90 BEND	2"	6	0.48	4.91	\$24										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 45 BEND	2"	2	0.48	9.48	\$19										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 90 TEE	2"	1	0.84	14.27	\$14										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 90 COUPLING	2"	2	0.48	4.98	\$10										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 90 UNION	2"	8	0.84	16.78	\$0										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 MALE / FEMALE ADAPTOR	2"	1	0.84	11.02	\$11										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC SCH 80 90 90 90 MISC REDUCER	2"	2	0.48	8.72	\$11										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
15104	BALL VALVES:																													
	PVC UNION TYPE SW B.V. VITON	1"	1	0.25	49.00	\$49										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	PVC UNION TYPE SW B.V. VITON	2"	1	0.54	128.00	\$128										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
15141	BACKFLOW PREVENTOR:																													
	RPZ BACKFLOW ASSEMBLY	2"	1	8.00	485.00	\$485										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
15002	PIPE SUPPORTS:																													
	SST 316 ADJUSTABLE PIPE SUPPORT	2"	2	3.45	165.00	\$330										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	SST UNISTRUT SPRING NUT ASSY	3/8"	88	0.00	2.00	\$136										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	SST 316 UNISTRUT SERIES P-1000 x 10'	EA	1	8.00	95.00	\$95										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	SST 316 UNISTRUT P-1045 Z FITTING	EA	12	0.05	8.00	\$96										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	SST 316 UNISTRUT PIPE CLAMP P-2024	1"	5	0.05	4.75	\$24										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
	SST 316 UNISTRUT PIPE CLAMP P-2024	2"	3	0.05	8.00	\$24										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
15008	NUTS,BOLTS,GASKETS:																													
	SST MISC WEDGE,CHEMICAL ANCHORS	EA	12	0.10	8.00	\$96										0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
																0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
DWG:	CJA G-2															0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0
NOTE:																0	yd	0	yd	0	yd	0	0	0	0	0	0	0	0	0

New Building																													
Sanitary Sewer																													
16060	PVC LG DIA PIPE:					\$0																							
	PVC SDR-35 GSKT SEWER PIPE / GRES	4"	60	0.30	4.00	\$240	4	40	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
16060	PVC FITTINGS:					\$0																							
	PVC SDR-35 GSKT 4W WYE	4"	1	6.00	12.00	\$12																							
	PVC SDR-35 GSKT 45 BEND	4"	8	4.00	7.00	\$42																							
	PVC SDR-35 CLEAN OUT ADAPTOR	4"	1	4.00	4.00	\$4																							
16020	PVC SDR-35 CLEAN OUT PLUG	4"	1	2.00	6.00	\$5																							
	DIP FITTINGS:					\$0																							
	DI MJ C-110 6W WYE	6"	1	4.50	125.00	\$125																							
	DI MJ SOLID SLEEVES	6"	1	3.00	84.00	\$84																							
15036	MEGALUG:					\$0																							
	EBAA MEGA-LUG SERIES 1100 DIP	4"	1	1.00	29.00	\$29																							
	EBAA MEGA-LUG SERIES 1100 DIP	6"	2	1.00	44.00	\$58																							
	DI MJ ASSEY SET	4"	1	0.50	11.00	\$11																							
15018	DI MJ ASSEY SET	6"	1	0.75	14.00	\$14																							
	SPECIALTIES:					\$0																							
	DI / PVC SDR-35 TRANS GSKT	4"	1	0.25	4.00	\$4																							
						\$0																							
DWG:	CJA G-2					\$0																							
NOTE:						\$0																							
						\$0																							
						\$0																							
						\$0																							

Energy Efficient Electric, Inc.  
1600 Mercer Ave. Unit 6  
West Palm Beach, FL. 33401  
Phone (561) 655-7211 Fax (561) 655-9661  
Mobile (561) 722-1381  
E-Mail Address: rene@energyeff.com  
**State License #EC 0001096**

September 4, 2013

**Electrical Scope of Work  
Central Regional Reclaimed Water Facility**

We are pleased to provide your firm with our scope and proposal for the necessary electrical work on the above referenced project. Our scope and budget is based on the drawings G1 and G2 prepared by Calvin Giordano and Associates.

**Included:**

1. Furnish and install a 30 amp 480 volt SS NF disconnects for the strainer, and (2) motorized actuators furnished by others. Furnish and install breakers in the existing I-Line panelboard.
2. Furnish and install a 60 amp 480 volt SS NF disconnects for the new 30 HP pump furnished by others. Reuse existing VFD.
3. Furnish and install a 60 amp 480 volt SS NF disconnect, 50 amp breaker in the existing I-Line panel and 25 KVA transformer to feed the new prefab building with 100 amp 240 volt service next to the existing filters structure.
4. Furnish and install conduit and wire from the existing electrical room for the pump, strainer, motorized actuators, pressure transmitter and prefab building.
5. Furnish and install grounding and lightning protection for the prefab building.
6. Assist with startup for the strainer and pump with manufacture.
7. Furnish PIT and (2) I/O cards for the PLC.

**Excluded:**

1. Pumps, magmeter, solenoids, limit switches, MOV's, clay valve, pressure gauges, strainer and control panel.
2. Permit fees.
3. Temporary power for any office trailers.
4. PLC programming.
5. Scada programming.
6. Pneumatic impulse piping, test traps or shut-off valves.
7. Pipe taps or pipe saddles.

**Lump Sum**                      **\$90,000**

We appreciate the opportunity to quote your organization on this project. If you have any questions, please call me at the office.

Thank You Very Kindly,

*Rene Viau*

Vice President

Residential ----- Lighting Systems ----- Commercial ----- Industrial

C:\USERS\DANIEL.ALONSO\DOCUMENTS\CARDINAL CONTRACTORS\31209 PALM BEACH DESIGN BUILD\WA #4 CRWR\PTO SUBMIT\QUOTES\ENERGY EFFICIENT QUOTE.DOC



Calvin, Giordano & Associates, Inc.  
EXCEPTIONAL SOLUTIONS  
560 Village Blvd., Suite 340, West Palm Beach, Florida 33409  
Phone: 561.684.6161 • Fax: 561.684.6360

ATTACHMENT E - WORK AUTHORIZATION  
SCHEDULE OF BID ITEMS

Certificate of Authorization No. 514		DATE August 30, 2013
Project Title	CGA PROJECT NO.	
CRRWF Improvements	11-4416.14	
WA Number	PBC WUD Project No.	
WA-4	13-009	

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #1	Data Collection and Survey			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	28	\$ 145.00	\$ 4,060.00
	Project Engineer (III)	18	\$ 125.00	\$ 2,250.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	4	\$ 95.00	\$ 380.00
	CADD Technician (Surveying)	12	\$ 95.00	\$ 1,140.00
	Senior Registered Surveyor	3	\$ 145.00	\$ 435.00
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	20	\$ 135.00	\$ 2,700.00
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	16	\$ 205.00	\$ 3,280.00
	Engineering Task Labor Subtotal	101.00		\$ 14,245.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	Fee \$ 2,659.80	Markup (10%) \$ 265.98	\$ 2,925.78
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 1,500.00	\$ 150.00	\$ 1,650.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 4,159.80	\$ 415.98	\$ 4,575.78
	Task #1 Total			\$ 18,820.78

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #2	60% Design Submittal			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	2	\$ 190.00	\$ 380.00
	Director, Engineering (V)	2	\$ 165.00	\$ 330.00
	Project Manager (IV)	82	\$ 145.00	\$ 11,890.00
	Project Engineer (III)	47	\$ 125.00	\$ 5,875.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	2	\$ 95.00	\$ 190.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	135.00		\$ 18,665.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	Fee \$ 13,636.48	Markup (10%) \$ 1,363.65	\$ 15,000.13
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 5,700.00	\$ 570.00	\$ 6,270.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 19,336.48	\$ 1,933.65	\$ 21,270.13
	Task #2 Total			\$ 39,935.13

Work Activity	Employee Classification	Hours	Hourly Rate	Total
<b>Task #3</b>	<b>90% Design Submittal</b>			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	6	\$ 190.00	\$ 1,140.00
	Director, Engineering (V)	2	\$ 165.00	\$ 330.00
	Project Manager (IV)	124	\$ 145.00	\$ 17,980.00
	Project Engineer (III)	59.5	\$ 125.00	\$ 7,437.50
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	2	\$ 95.00	\$ 190.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	<b>Engineering Task Labor Subtotal</b>	<b>193.50</b>		<b>\$ 27,077.50</b>
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	Fee \$ 1,870.72	Markup (10%) \$ 187.07	\$ 2,057.79
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 2,900.00	\$ 290.00	\$ 3,190.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	<b>Engineering Task Subconsultant Subtotal</b>	<b>\$ 4,770.72</b>	<b>\$ 477.07</b>	<b>\$ 5,247.79</b>
	<b>Task #3 Total</b>			<b>\$ 32,325.29</b>

Work Activity	Employee Classification	Hours	Hourly Rate	Total
<b>Task #4</b>	<b>100% Design Submittal</b>			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	8	\$ 190.00	\$ 1,520.00
	Director, Engineering (V)	4	\$ 165.00	\$ 660.00
	Project Manager (IV)	78	\$ 145.00	\$ 11,310.00
	Project Engineer (III)	27	\$ 125.00	\$ 3,375.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	4	\$ 95.00	\$ 380.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	<b>Engineering Task Labor Subtotal</b>	<b>121.00</b>		<b>\$ 17,245.00</b>
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	Fee \$ 3,374.80	Markup (10%) \$ 337.48	\$ 3,712.28
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 1,400.00	\$ 140.00	\$ 1,540.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	<b>Engineering Task Subconsultant Subtotal</b>	<b>\$ 4,774.80</b>	<b>\$ 477.48</b>	<b>\$ 5,252.28</b>
	<b>Task #4 Total</b>			<b>\$ 22,497.28</b>

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #5	Pre-Construction Meeting and Shop Drawing Review			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	36	\$ 145.00	\$ 5,220.00
	Project Engineer (III)	4	\$ 125.00	\$ 500.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	40.00		\$ 5,720.00

Subconsultants (10% Markup)		Fee	Markup (10%)		
EDA (Electrical)	SBE	\$ 5,931.64	\$ 593.16	\$ -	\$ 6,524.80
RADISE (Geotech)	SBE	\$ -	\$ -	\$ -	\$ -
AGA (Structural)	SBE	\$ 900.00	\$ 90.00	\$ -	\$ 990.00
Colome' (Architectural)	SBE	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -
Engineering Task Subconsultant Subtotal		\$ 6,831.64	\$ 683.16	\$ -	\$ 7,514.80

Engineering Task Total \$ 13,234.80

Construction Services					
Cardinal Construction		Fee	Markup (0%)		Total
Guaranteed Maximum Price (Excluding subcontractors below)		\$	-	0%	\$ -
Subcontractors (10% Markup)					
		Fee	Markup (10%)		Total
Electrical	SBE	\$	-	\$	-
Instrumentation & Controls	SBE	\$	-	\$	-
Sod	SBE	\$	-	\$	-
Miscellaneous	SBE	\$	-	\$	-
Subcontractor Subtotal		\$	-	\$	-
Construction Task Total		\$	-	\$	-

Task #6 Total \$ 13,234.80

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #6	Construction Services			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	108	\$ 145.00	\$ 15,660.00
	Project Engineer (III)	0	\$ 125.00	\$ -
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	12	\$ 95.00	\$ 1,140.00
	Senior Registered Surveyor	3	\$ 145.00	\$ 435.00
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	20	\$ 135.00	\$ 2,700.00
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
Engineering Task Labor Subtotal		143.00	\$	19,935.00

Subconsultants (10% Markup)		Fee	Markup (10%)	Total
EDA (Electrical)	SBE	\$ 5,319.60	\$ 531.96	\$ 5,851.56
RADISE (Geotech)	SBE	\$ -	\$ -	\$ -
AGA (Structural)	SBE	\$ 3,700.00	\$ 370.00	\$ 4,070.00
Colome' (Architectural)	SBE	\$ -	\$ -	\$ -
Engineering Task Subconsultant Subtotal		\$ 9,019.60	\$ 901.96	\$ 9,921.56

Engineering Task Total

\$ 29,856.56

Construction Services				
Cardinal Construction		Fee	Markup	Total
Guaranteed Maximum Price (Excluding subcontractors below)			0%	\$0.00

Subcontractors (10% Markup)		Fee	Markup (10%)	Total
Electrical	SBE	\$ -	\$ -	\$0.00
Instrumentation & Controls	SBE	\$ -	\$ -	\$0.00
Sod	SBE	\$ -	\$ -	\$0.00
Miscellaneous	SBE	\$ -	\$ -	\$0.00
Subcontractor Subtotal		\$ -	\$ -	\$0.00

Construction Task Total

\$ -

Task #7 Total

\$ 29,856.56



Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #7	Project Close-Out			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	22	\$ 145.00	\$ 3,190.00
	Project Engineer (III)	32	\$ 125.00	\$ 4,000.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	54.00		\$ 7,190.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	\$ 949.52	\$ 94.95	\$ 1,044.47
	RADISE (Geotech) SBE	-	-	-
	AGA (Structural) SBE	\$ 900.00	\$ 90.00	\$ 990.00
	Colome' (Architectural) SBE	-	-	-
	Engineering Task Subconsultant Subtotal	\$ 1,849.52	\$ 184.95	\$ 2,034.47
	Engineering Task Total			\$ 9,224.47
	Construction Services			
	Cardinal Construction			
	Guaranteed Maximum Price (Excluding subcontractors below)		0%	\$0.00
	Subcontractors (10% Markup)			
	Electrical SBE	\$ -	\$ -	\$0.00
	Instrumentation & Controls SBE	\$ -	\$ -	\$0.00
	Sod SBE	\$ -	\$ -	\$0.00
	Miscellaneous SBE	\$ -	\$ -	\$0.00
	Subcontractor Subtotal	\$ -	\$ -	\$0.00
	Construction Task Total	\$ -	\$ -	\$ -
	Task #8 Total			\$ 9,224.47

Work Activity	Employee Classification	Hours	Hourly Rate	Total
<b>Totals</b>				
<b>Engineering Services</b>				
<b>Calvin, Giordano &amp; Associates</b>				
Associate, Engineering (VI)		16 \$	190.00 \$	3,040.00
Director, Engineering (V)		8 \$	165.00 \$	1,320.00
Project Manager (IV)		478 \$	145.00 \$	69,310.00
Project Engineer (III)		187.5 \$	125.00 \$	23,437.50
Engineer (II)		0 \$	105.00 \$	-
CADD Technician (Engineering)		12 \$	95.00 \$	1,140.00
CADD Technician (Surveying)		24 \$	95.00 \$	2,280.00
Senior Registered Surveyor		6 \$	145.00 \$	870.00
Registered Surveyor		0 \$	130.00 \$	-
Survey Crew		40 \$	135.00 \$	5,400.00
Soft Dig (per hole)		0 \$	480.00 \$	-
Utility Locates (per hour)		16 \$	205.00 \$	3,280.00
<b>Engineering Project Labor Subtotal</b>		<b>787.50</b>	<b>\$</b>	<b>110,077.50</b>

Subconsultants (10% Markup)		Fee	Markup (10%)	Total
EDA (Electrical)	SBE	\$ 33,742.56	\$ 3,374.26	\$ 37,116.82
RADISE (Geotech)	SBE	\$ -	\$ -	\$ -
AGA (Structural)	SBE	\$ 17,000.00	\$ 1,700.00	\$ 18,700.00
Colome' (Architectural)	SBE	\$ -	\$ -	\$ -
<b>Engineering Project Subconsultant Subtotal</b>		<b>\$ 50,742.56</b>	<b>\$ 5,074.26</b>	<b>\$ 55,816.82</b>

**Engineering Task Total** **\$ 165,894.32**

<b>Construction Services</b>				
<b>Cardinal Construction</b>				
Guaranteed Maximum Price (Excluding subcontractors below)		\$ -	0%	\$ -

Subcontractors (10% Markup)		Fee	Markup (10%)	Total
Electrical	SBE	\$ -	\$ -	\$ -
Instrumentation & Controls	SBE	\$ -	\$ -	\$ -
Sod	SBE	\$ -	\$ -	\$ -
Miscellaneous	SBE	\$ -	\$ -	\$ -
<b>Subcontractor Subtotal</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**Construction Project Total** **\$ -**

<b>Construction Total</b>	<b>\$ -</b>
<b>Engineering Total</b>	<b>\$ 165,894.32</b>
<b>Project Sub-Total</b>	<b>\$ 165,894.32</b>
<b>Allowance</b>	

**WA GRAND TOTAL** **\$ 165,894.32**

Vincent Capuozzi

From: Gary.Morgan2@Ferguson.com  
Sent: Thursday, November 07, 2013 9:32 AM  
To: Vincent Capuozzi  
Subject: PBC

Vince,

See the quote below with your changes and additions. I highlighted what changed or was added. Thanks!

Thank You,

Gary Morgan  
Sales - Ferguson Plant Division  
1950 NW 18th St | Pompano Beach, FL 33069  
Tel (954) 973-8100 | Cell (954) 707-1058  
Fax (954) 917-3134 | Gary.Morgan2@Ferguson.com



Price Quotation # B231678

FEI-POMPANO BEACH WW #125

1950 NW 18TH STREET  
POMPANO BEACH, FL 33069-1394

Phone : 954-973-8100  
Fax : 954-917-3134

Bid No.....: B231678	Cust Phone: 954-973-8100
Bid Date...: 08/25/13	Terms.....: NET 10TH PROX
Quoted By: GM	Ship To.....: **BID PLANT CONTRACTOR**
Customer.: **BID PLANT CONTRACTOR**	FOR BIDDING PURPOSES ONLY
FOR BIDDING PURPOSES ONLY	POMPANO BEACH, FL 33069
POMPANO BEACH, FL 33069	

Cust PO#...: PBC - DESIGN BUILD                      Job Name.: CRRWF

Item	Description	Quantity	Net Price	UM	Total
	DESIGN BUILD:				
	CENTRAL REGION RECLAIMED				
	WATER FACILITY IMPROVEMENT				

	PROJECT No. WUD 13-009				
	CARDINAL CONTRACTORS				
	6 MGD BOOSTER PUMP &				
	STRAINER				
	TIE TO EXIST REUSE W/BYPAS				
AFT350P16	16 CL350 CL DI FASTITE PIPE	40	73.000	FT	2920.00
AFGRGSKT16	16 FAST GRIP GSKT	1	502.000	EA	502.00
MJLSLA16	16X15 MJ C153 LONG SLV L/A	3	424.000	EA	1272.00
MJTLA16	16 MJ C153 TEE L/A	2	924.000	EA	1848.00
MJYLA16	16 MJ C153 WYE L/A	1	1577.000	EA	1577.00
MJ9LA16	16 MJ C153 90 BEND L/A	1	659.000	EA	659.00
FPP16X	16X8'0 FLGXPE CL BT DI SPL	3	1392.000	EA	4176.00
F916	16 DI 125# C110 FLG 90 BEND	3	899.000	EA	2697.00
FCR16X	16X8 DI 125# C110 FLG CONC RED	2	508.000	EA	1016.00
SP-FGP16K	16" X 2'0 FLG X GRV CL DIP	6	603.000	EA	3618.00
FFP16M	16X3'0 FLGXFLG CL BT DI SPL	2	1049.000	EA	2098.00
FT16	16 DI 125# C110 FLG TEE	1	1400.000	EA	1400.00
FFP16P	16X4'0 FLGXFLG CL BT DI SPL	2	1052.000	EA	2104.00
FFP16Y	16X9'0 FLGXFLG CL BT DI SPL	1	1665.000	EA	1665.00
FFP16U	16X6'0 FLGXFLG CL BT DI SPL	4	1290.000	EA	5160.00
FCR2016	20X16 DI 125# C110 FLG CONC RED	2	1007.000	EA	2014.00
FFP16K	16X2'0 FLGXFLG CL BT DI SPL	2	785.000	EA	1570.00
E1116DEC	16 MEGALUG EBAASEAL ACCY PKG F/ DI	17	173.000	EA	2941.00
	HDG W/TORUSEAL				
SFASX	8 STD FLG ACC KIT	2	31.000	EA	62.00
SP-SFAS16	16 STD FLG ACC SET	26	116.000	EA	3016.00
SFAS20	20 STD FLG ACC KIT	2	174.000	EA	348.00
HGHF16	16 FLG BFV	2	2319.000	EA	4638.00
SP-16FLGBFVEMO	16" FLG BFV W/EMO	2	13900.000	EA	27800.00
SP-VLVSTARTUP	START UP & TRAINING FOR VLV	1	1715.000	EA	1715.00
SP-16SWGCHKSB	16" SURGEBUSTER FLG CHK VLV	2	18500.000	EA	37000.00
V48AK	2 SEWAGE AIR RELEASE VLV	1	405.000	EA	405.00

SP-1SSSTRAP	1" SS OFFSET PIPE SUPPORT	4	42.000	EA	168.00
SP-16SSSTP	16" SS PIPE STRAP	4	222.000	EA	888.00
VC160031PM0	16 CPL 31 W/ FS-M T37-77 31	3	522.000	EA	1566.00
D461SR	2PC SC CI VLV BX 19-22 REUSE	1	113.000	EA	113.00
PS41106	6 FT GATE VLV STEM EXT	1	54.000	EA	54.00
BVTM	3 BRS VLV ID TAG	1	16.000	EA	16.00
DS46NKP	2X4 SS S40 316 NIP	2	11.000	EA	22.00
DS46NGP	1X4 SS S40 316 NIP	21	6.000	EA	126.00
IS6CT9G	1 SS 316 150# THRD 90 ELL	4	5.000	EA	20.00
FNW200AK	2 SS 1000# THRD 2PC FP BV LL	1	152.000	EA	152.00
R202N189072	16X2 IP DBL SS STRAP-NYLON	1	184.000	EA	184.00
DS46NDM	1/2X3 SS S40 316 NIP	6	3.000	EA	18.00
IS6CT9D	1/2 SS 316 150# THRD 90 ELL	3	3.000	EA	9.00
FNW200AD	1/2 SS 1000# THRD 2PC FP BV LL	6	29.000	EA	174.00
WEA14060	4-1/2 PRES GA 0 - 60 PSI	3	425.000	EA	1275.00
	SUBTOTAL				119006.00
	DRAIN/FLUSH FILTER TO LS				
AFT350PU	6 CL350 CL DI FASTITE PIPE	260	21.000	FT	5460.00
E1606TDSS4	6 SPLT HRNS F/ C900 PVC/DI	11	106.000	EA	1166.00
FPPUX	6X8'0 FLGXPE CL BT DI SPL	1	385.000	EA	385.00
FPPUG	6X1'0 FLGXFLG CL BT DI SPL	1	183.000	EA	183.00
MJ9LAU	6 MJ C153 90 BEND L/A	2	93.000	EA	186.00
MJ4LAU	6 MJ C153 45 BEND L/A	4	76.000	EA	304.00
MJTLAU	6 MJ C153 TEE L/A	1	135.000	EA	135.00
MJSPU	6 MJ C153 SLD PLUG	1	50.000	EA	50.00
SSLDE6AP	6 DI WDG REST *ONELOK W/A	14	44.000	EA	616.00
IMJBGPU	6 MJ C153 BOLT GSKT PK L/ GLAND	1	17.000	EA	17.00
SFASU	6 STD FLG ACC KIT	3	24.000	EA	72.00
SP-SSSTRAPU	6" SS PIPE STRAP	2	70.000	EA	140.00
	SUBTOTAL				8714.00
	EXISTING REUSE PUMPS				
	ADD EMO'S TO VALVES				
SP-12EMO	EMO F/12" BFV	2	12143.000	EA	24286.00
	INCLUDES ADAPTORS/PLATES ETC				
SP-VLVSTARTUP	START UP & TRAINING FOR VLV	1	1715.000	EA	1715.00

	SUBTOTAL				26001.00
	MODIFY EXIST PIPING				
BF12	12 DI 125# C110 BLIND FLG	2	267.000	EA	534.00
FFP16U	16X6"0 FLGXFLG CL BT DI SPL	1	1350.000	EA	1350.00
SP-16TDCV	16" TILTED DISC CHK VLV	1	32176.000	EA	32176.00
	W/TOP MOUNTED DASHPOT & LIMIT SWTCH				
	ALTERNATE PBC APPROVED SURGEBUSTER				
	\$18,500/EA				
SFAS12	12 STD FLG ACC KIT	2	40.000	EA	80.00
SP-SFAS16	16 STD FLG ACC SET	3	116.000	EA	348.00
E2116	16 MEGAFLANGE FLG ADPT	1	916.000	EA	916.00
	SUBTOTAL				35404.00
	PRESSURE SUSTAINING VLV				
FFP12K	12X2"0 FLGXFLG CL BT DI SPL	1	512.000	EA	512.00
SP-BA730S12	12" PRV W/LIMIT SWITCH	1	17429.000	EA	17429.00
	GLOBES STYLE, DI BODY, 316SS SEAT				
	& STEM				
	ANTI-CAVITATION ADDER \$6300				
	LIMIT SWITCH ADDER \$800				
	FLOW METERING ADDER \$12000				
SFAS12	12 STD FLG ACC KIT	2	40.000	EA	80.00
E2112	12 MEGAFLANGE FLG ADPT	1	367.000	EA	367.00
	SUBTOTAL				18388.00
	NEW BUILDING - POT WATER				
P80BG	1 X 20 FT PVC S80 BE PIPE	20	86.000	C	17.20
P80BK	2 X 20 FT PVC S80 BE PIPE	60	183.000	C	109.80
P80S9G	1 PVC S80 SXS 90 ELL	2	3.000	EA	6.00
P80S4G	1 PVC S80 SXS 45 ELL	2	5.000	EA	10.00
P80STG	1 PVC S80 SXSXS TEE	1	4.000	EA	4.00
P80SCG	1 PVC S80 SXS COUP	1	3.000	EA	3.00
P80SFAG	1 PVC S80 SXF ADPT	2	4.000	EA	8.00
P80SBGD	1X1/2 PVC S80 SXS BUSH	1	2.000	EA	2.00

	4" STRAINER BACKWASH ----				
AFT350PP	4 CL350 CL DI FASTITE PIPE	40	21.000	FT	840.00
AFGRGSKTP	4 FAST GRIP GSKT	1	59.000	EA	59.00
MJ9LAP	4 MJ C153 90 BEND L/A	1	57.000	EA	57.00
MJ4LAP	4 MJ C153 45 BEND L/A	1	47.000	EA	47.00
MJTLA12P	12X4 MJ C153 TEE L/A	1	273.000	EA	273.00
MJLSLA12	12X12 MJ C153 LONG SLV L/A	1	222.000	EA	222.00
FPPP12	4X12'0 FLGXPE CL BT DI SPL	1	399.000	EA	399.00
F4P	4 DI 125# C110 FLG 45 BEND	1	100.000	EA	100.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	7	29.000	EA	203.00
E111200IAP	12 MEGALUG F/DI W/ IMJBGPP12	4	97.000	EA	388.00
SFASP	4 STD FLG ACC KIT	2	10.000	EA	20.00
D461SW	2PC SC CI VLV BX 18-24 WTR W/ W LID	1	113.000	EA	113.00
BVTM	3 BRS VLV ID TAG	1	16.000	EA	16.00
	6" SE FM ----				
AFGRGSKTU	6 FAST GRIP GSKT	1	84.000	EA	84.00
MJ9LAU	6 MJ C153 90 BEND L/A	1	93.000	EA	93.00
FFPUG	6X1'0 FLGXFLG CL BT DI SPL	1	164.000	EA	164.00
BFU	6 DI 125# C110 BLIND FLG	1	79.000	EA	79.00
	SAN SWR ----				
MJYLAUP	6X4 MJ C153 WYE L/A	1	126.000	EA	126.00
MJLSLAU	6X12 MJ C153 LONG SLV L/A	1	84.000	EA	84.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	1	29.000	EA	29.00
IMJBGPP	4 MJ C153 BOLT GSKT PK L/ GLAND	1	11.000	EA	11.00
IMJBGPU	6 MJ C153 BOLT GSKT PK L/ GLAND	1	14.000	EA	14.00
IMJTGP	4 SBR MJ IPS TRANS GSKT	1	4.000	EA	4.00

Subtotal: \$214344.00

Inbound Freight: \$0.00

Tax: \$12860.64

Order Total: \$227204.64

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at [http://wolselevna.com/terms\\_conditionsSale.html](http://wolselevna.com/terms_conditionsSale.html). Govt Buyers: All items quoted are open market unless noted otherwise.

P80SUG	1 PVC S80 SXS UNION EPDM	1	6.000	EA	6.00
P80S9K	2 PVC S80 SXS 90 ELL	6	4.000	EA	24.00
P80S4K	2 PVC S80 SXS 45 ELL	2	9.000	EA	18.00
P80STK	2 PVC S80 SXSXS TEE	1	14.000	EA	14.00
P80SCK	2 PVC S80 SXS COUP	2	5.000	EA	10.00
P80SUK	2 PVC S80 SXS UNION EPDM	1	18.000	EA	18.00
P80SMAK	2 PVC S80 SXM ADPT	1	11.000	EA	11.00
P80SBKG	2X1 PVC S80 SXS BUSH	2	6.000	EA	12.00
FNW340NVG	1 PVC VITON T/U BV	1	24.000	EA	24.00
FNW340NVK	2 PVC VITON T/U BV	1	64.000	EA	64.00
W975XL2K	LF 2 RED PRES BFP W/ BV	1	484.000	EA	484.00
	SUBTOTAL				845.00
	SANITARY SEWER				
SDR35PP14	4X14 SDR35 PVC GJ SWR PIPE	42	2.000	FT	84.00
SDR35PU14	6X14 SDR35 PVC GJ SWR PIPE	70	4.000	FT	280.00
MUL063304	4 PVC SWR GXGXG WYE	2	12.000	EA	24.00
MUL063504	4 PVC SWR GXG 45 BEND	2	7.000	EA	14.00
MUL040949	4 PVC SWR HUB FEM CO ADPT	2	4.000	EA	8.00
MUL040492	4 PVC SWR REC THRD CO PLUG	2	5.000	EA	10.00
MUL063306	6 PVC SWR GXGXG WYE	2	27.000	EA	54.00
MUL063506	6 PVC SWR GXG 45 BEND	2	14.000	EA	28.00
MUL040952	6 PVC SWR HUB FEM CO ADPT	2	16.000	EA	32.00
MUL040958	6 PVC SWR REC THRD CO PLUG	2	10.000	EA	20.00
	SUBTOTAL				554.00
	ADDER SYSTEMS:				
	4" STRAINER DRAIN				
AFT350PP	4 CL350 CL DI FASTITE PIPE	40	21.000	FT	840.00
AFGRGSKTP	4 FAST GRIP GSKT	1	59.000	EA	59.00
MJ4LAP	4 MJ C153 45 BEND L/A	2	47.000	EA	94.00
MJYLAUP	6X4 MJ C153 WYE L/A	1	126.000	EA	126.00
MJLSLAU	6X12 MJ C153 LONG SLV L/A	1	84.000	EA	84.00
FPPP12	4X12"0 FLGXPE CL BT DI SPL	1	399.000	EA	399.00
F4P	4 DI 125# C110 FLG 45 BEND	1	100.000	EA	100.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	5	29.000	EA	145.00
E110600IAP	6 MEGALUG F/DI W/ IMJBGPU	4	35.000	EA	140.00
SFASP	4 STD FLG ACC KIT	2	10.000	EA	20.00



Laurie Labanowitz

## QUOTE NOT USED

**From:** Justin Randolph  
**Sent:** Monday, August 05, 2013 11:22 AM  
**To:** Laurie Labanowitz  
**Subject:** FW: Central Region DB Project

*Justin Randolph*



10405 Technology Terrace  
Lakewood Ranch, FL 34211  
941-377-8555 – Office  
941-377-8542 – Fax  
941-302-5567 – Cell

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**From:** Kirk Rouse [mailto:krouse@leesburgconcrete.com]  
**Sent:** Thursday, July 25, 2013 3:49 PM  
**To:** Justin Randolph  
**Cc:** 'Brian Stock'; Susan Kindle  
**Subject:** RE: Central Region DB Project

Ok, as described and with delivery/setting/tax/stamped drawings---budget \$78,000. This is an EasiSet building with patented post tensioned floor and roof. I excluded site preparation (granular sub base) and any on-site hook ups such as plumbing/electrical (building will have plumbing/electrical with panel and HVAC). I re-checked as number seemed high but with fit out that's accurate. Good luck and please let me know how we compare. Please verify competitors apples to apples with fit out/equipment/architectural etc....The post tensioning is a big deal as well. This building will be built in a state of the art NPCA certified plant with roof which is also important. My colleague Brian will be getting Anthony his budget price this afternoon. Thanks, I look forward to working with you.

Kirk Rouse  
Vice President



1335 Thomas Avenue  
Leesburg, FL 34748

Office: (352) 787-4177  
Cell: (352) 408-6066  
Fax: (352) 787-7935  
[www.leesburgconcrete.com](http://www.leesburgconcrete.com)

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**From:** Justin Randolph [mailto:jrandolph@cardinalco.com]  
**Sent:** Thursday, July 25, 2013 2:42 PM  
**To:** Kirk Rouse  
**Subject:** Central Region DB Project

8/5/2013

Per our discussion please figure a 12' x 34' precast building per the following description. The project is located at 2969 Northampton ST West Palm Beach, FL 33417

**QUOTE NOT USED**

1. Provide a new building (total approximately 400 SF) partitioned into 2 sections, an office area and a storage area. The building shall either be precast concrete or concrete masonry unit with stucco. The air conditioned office area shall include unisex ADA compliant bathroom, office area with laboratory sink with counter and cabinets. Storage area shall include rollup door for storing golf cart used to transport reclaimed water samples. Building shall be designed for building code with Florida Product approval. Connect to existing water supply and sanitary sewer. Connect electric to the existing electrical building.

Please quote all

1. Painting
2. HVAC (office area only)
3. Overhead door
4. Man Door
5. ADA Compliant Bathroom (wall partitions, toilet and accessories)
6. Partition Wall Between Storage and Office Space
7. Laboratory sink and counter with cabinets
8. Delivery and install
9. We should probably add (2) fire extinguishers

Thanks,

*Justin Randolph*



10405 Technology Terrace  
Lakewood Ranch, FL 34211  
941-377-8555 – Office  
941-377-8542 – Fax  
941-302-5567 – Cell

8/5/2013



QUOTE NOT USED

CONCRETE MODULAR SYSTEMS, INC.



## PROPOSAL

Cardinal Contractors, Inc.  
2201 Cantu Court Suite 202  
Sarasota, FL 34232

Date: August 5, 2013  
PH#: 1-941-377-8555  
Fax#: 1-941-377-8542

Attn: Justin Randolph

### RE: Central Region Water Treatment Operations Building Design Build

Concrete Modular Systems, Inc. is pleased to provide a quote to supply 1ea Precast Concrete Building for the above-mentioned job. The building will be designed to meet 2010 Florida Building Code and ACI-318-08 and ACI-318R-08. The scope of work per building will exclude anything not specifically listed below:

#### Design Loads:

Roof Live Load	65 PSF	Wind Load	150 MPH
Floor Live Load	125 PSF	Floor Dead Load	63 PSF

#### Operations Building

- 1ea DCA Approved Shop Drawings and Submittal Data
- 1ea 29'-0"x 15'-0"x 11'-10" Precast Concrete Building "Stucco or Standard Finish"
- 1ea Marvair 2 Ton Wall Mount A/C 241-A05 w/ "J" Package, Duct and T-Stat (Electronic)
- 1ea 3'x7' 18ga Imp. Door R-14.9 w/ Lockset, Dripcap, Window, Door Closer and Sweep
- 1ea 3'-0"x7'-0" Solid Core Wooden Door with Lockset and Hardware
- 1ea Roll-Lite Wind Loaded Overhead Coiling Door Model # 650 (6'-0"x8'-0")
- 2ea 26"H x 36"W Single Hung Sliding Window with Screen
- 1ea Interior 5/8" Gypsum R-14 on Walls, Gypsum Board R-21 on Ceiling "Knock-Down"
- 1ea Panel LP-10-1 200 Amp 1P 208/120v 42 Spaces NEMA 1 w/ Breakers
- 7ea 2'x2' Interior Lights Mounted in Drop Ceiling with Light Switch
- 9ea Bryant CR20BI SP 20A Receptacles and 8ea GFI
- 2ea RAB Mini Wall pack WP1SN70 100W with Photocell
- 2ea Surelite # Combo Pak Emergency Light and Exit Light
- 1lt Laboratory Design & Supply designed Casework and Desk Set-up
- 1ea Pro Line Carbon Dioxide Fire Extinguisher # PRO10CDM
- 1ea All Openings and Penetrations per Owners Recommendation Prior to Casting
- 1ea Ten Year Masonry Paint Color by Owner

#### Restroom Section

- 1ea Aerovent T100 Exhaust Fan with Wall Cap and Damper
- 1ea Int. 1/2" FRP Finish R-14 walls, 5/8" Gypsum R-21 Ceiling, Epoxy Floor
- 1ea Water Closets, Lavatories and 36" and 40" Grab Bars (External Hook-up By other)
- 1ea All required Steel Bath Accessories Satin Stainless Where Required

"Solutions Cast In Concrete"

P.O. Box 531573 \* St Petersburg, FL \* 33747-1573 \* 727-945-1864 \* FX 727-945-9756 \* 866-CMS-HUTS (267-4887)  
Central Region DB Operational Card.doc ■ WWW.CMSHuts.com

## QUOTE NOT USED

The total cost for the scope of work for Operations Building will be \$ 125,622.59, , FOB to the jobsite Off-loaded by Concrete Modular Systems Inc. personnel. Access: The contractor must provide level unobstructed area large enough for 75 ton crane and tractor-trailer to park adjacent to pad. Crane must be able to place outriggers within 3'-0" of edge of pad and truck and crane must be able to get side-by-side under their own power. Firm roadbed with turns that allow 65'+ low bed tractor-trailer, must be provided directly to site.

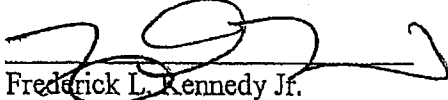
The price does not include Federal, State, or Local Taxes. The pricing of this proposal is valid 30 days from the date of proposal. Terms are NET 30 Days upon Completion, Delivered or Stored.

Concrete Modular System Inc, is a vendor not a sub contractor. Our payments terms are net 30 days with credit approval from Concrete Modular System Inc. Lead time varies from 6 to 8 weeks depending on production schedules and or material availability at time of order. Material cannot be ordered until submittals have been approved.

**Exclusions:** Any and All Grounding, Electrical and Plumbing Hook-ups "by others" \*Foundation, Vapor Barrier, and Foundation Grout By Others If Applicable

Building size or orientation may change due to fact that ADA layout may not be to current code any additional change may result in change order.

Proposal prepared and submitted by:

  
Frederick L. Kennedy Jr.  
General Manager

Proposal accepted by:

\_\_\_\_\_

"Solutions Cast In Concrete"

P.O. Box 531573 \* St Petersburg, FL \* 33747-1573 \* 727-945-1864 \* FX 727-945-9756 \* 866-CMS-HUTS (267-4887)  
Central Region DB Operational Card.doc ■ WWW.CMSHuts.com

# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

NOT USED - REUSE EXISTING PUMP

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 1

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

Item: 25 HP Filter Booster Pump	Flow (US gpm)	Head (ft)	Eff. (%)	Power (hp)	Speed (RPM)
Model: Peerless Vertical - 24HH	4164	18	85.4	22.7	585
	Liquid	Temp. (°F)	Sp. Gravity	Visc. (cSt)	Dia. (inch)
	Water	68	1.000	1.007	13.17

## Summary Quotation:

Item No	Description	Weight (lb)	Qty
1	24HH, 2 Stage Bowl Assembly, Material Group A , Flanged Column 16/1.69, L6, Suction Bell, Flanged Discharge Bowl, OLS	0	1
2	Impeller, trimmed, surface finish Ra75, vane exit Std. Fig 4-0.063x3.5	0	2
3	Top Bowl	795	1
4	Bowl, Intermediate	795	1
5	Collar, Sand, lower and upper	0	2
6	Fastener, Bowl, Material 316ss	0	32
7	Fastener, Bowl / Column, 316ss	0	16
8	Nut, Fastener, 316ss	0	16
9	Gasket, Bowl / Column	0	1
10	Dynamic Balanced Impeller	0	2
11	Charge for Polishing (Premium Efficiency)	0	2
12	Ring, Split, Impeller, Material 316ss	0	2
13	Key, Impeller, Material 316ss	0	2
14	Retainer, Split Ring, Material 316ss	0	2
15	Screw, Retainer, Split Ring, Material 316ss	0	4
16	Ring, Seal, Lateral	0	2
17	Suction	1105	1
18	Plug, Pipe (Suction)	0	1
19	Shaft, Pump, D = 2.44 inch, step down to 1.69 inch, L = 66.3 inch, Keyed, Material 416ss	0	1
20	Coupling, Threaded, Shaft, 410ss	2	1
21	Suppressor, Vortex, Material 316Lss	29	1
22	OLS Flanged column 16.0 inch / 1.69 inch shaft / 5ft bearing spacing, length base to bowl 67 inch , p-class 3	0	1
23	Pipe, column flanged 16.0 inch, bottom, length 34 inch, Material plain steel	211	1
24	Pipe, column flanged 16.0 inch, top, code length 33 inch, Material plain steel	206	1
25	Shaft critical speed analysis (provide min - max pump speed)	0	1
26	Shaft-Group of Column	0	1
27	Shaft, line, top, threaded , <2-Piece-Top-Shaft>, D=1.69 inch, L=91.00 inch, Material 416ss	57	1
28	Bearing, Open Line Shaft	0	1
29	Retainer, Bearing, Open Line Shaft	17	1
30	Screw, intermediate flange, Material 316ss	0	14
31	Nut, intermediate flange, Material 316ss	0	14
32	Oring, intermediate flange	0	1
33	Shaft, Head (Top shaft for VHS motor), <2-Piece-Top-Shaft>, Assembly	0	1
34	Coupling, Shaft, Line, Top, Standard, Material Steel, 1215 CD	2	1

Quote valid for 45 days

Grundfos - RAPID v8.25.6 - 23rd March 2007.



# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, FL 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 2

35	Shaft, Head, VHS motor, D=1.69 inch, L=8.00 inch, Mat. 416ss , RTF- NO MOTOR	5	1
36	Shaft, Line, Diameter 1.69 inch, Material 416ss	0	1
37	Mechanical sealing type II, gland: Flush, carbon/ceramic	0	1
38	Stuffing box	0	1
39	T-Bolt, Gland, Standard Material	0	2
40	Nut, Gland	0	2
41	Gasket, Stuffing Box	0	1
42	Ring, Seal	0	1
43	Fastener, Stuffing Box	0	4
44	Fitting, tube compression	0	2
45	Tubing	0	36
46	Washer, Seal gland	0	2
47	Discharge head assembly 16x16x20FRA36, steel	0	1
48	Pump operates at Variable Speed	0	1
49	Head, Discharge 16x16x20FRA36, Motor Base Diameter BD= inch	1226	1
50	Discharge Flange 150 lb	93	1
51	INFO: Dimension C (discharge head shaft stick down) = 6.880 inches	0	1
52	Name Plate, Pump Data	0	1
53	Name Plate, pp Data Screws	0	4
54	Name Plate, Rotation Direction	0	1
55	Name Plate, Warning	0	1
56	Wedge, Leveling	0	4
57	Plug 1, Discharge Head	0	2
58	Plug 2, Discharge Head	0	3
59	Plug 3, Discharge Head	0	1
60	Plug 4, Discharge Head	0	1
61	Plug 5, Discharge Head	0	1
62	Plug 6, Discharge Head	0	1
63	Plug 7, Discharge Head	0	1
64	Guard 1, Coupling	0	1
65	Guard 2, Coupling	0	1
66	Screw, Guard	0	8
67	Washer, Guard	0	8
68	Stud, Flanged Column - Fabricated Head, Material 316ss	0	16
69	Nut, Flanged Column - Fabricated Head, Material 316ss	0	16
70	Gasket, Top Segment, Flanged Column	0	1
71	Painting - Coating	0	1
72	Epoxy coating Class III of Discharge Head, Internal, External PEERLESS blue, enameled (add 2 weeks lead time to Head)	0	1
73	Epoxy coating Class III of column, Internal and External (add 2 weeks lead time to Column)	0	1
74	Epoxy coating Class III of bowl assembly, External (add 2 weeks lead time to bowls)	0	1
75	Laboratory Performance Test, non-witnessed (increases lead time of bowl assembly by 1 week!)	0	1
76	Tolerance Type: Hyd Inst-Peerless Std	0	1
77	Curve Approval (customer approval prior shipping)	0	1
78	Test Units US	0	1
79	Shipping Condition: Pump ASSEMBLED	0	1

Quote valid for 45 days

Grundfos - RAPID v8.25.6 - 23rd March 2007.



# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, FL 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 3

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

80	Factory Assembly at overall length of pump 30ft and less - actual length = 161 inch (= 13.430 ft)	0	1
81	Add for 25 HP TEFC Motor, Vertical Solid Shaft (budget)	700	1
82	Add for 410 Series Stainless Steel Spacer Coupling (budget)	0	1
83	add for 136" long-x 36" diameter steel suction Barrel with 30" suction flange and epoxy coatings (budget)	2000	1
84	Spare seal (budget)	0	1
85	Spare stuffing box complete (budge)	0	1
86	Shipping to Site (budget)	0	1
87	Start Up assistance (budget)	0	1
88	Critical Seed Engineering (budget)	0	1
89	Add for 18" Flange Break and bearing under stuffing box (budget)	0	1
90	BUDGET SETIMATE ONLY (BUDGET)	0	1

## Terms of Payment:

Shipment Terms (INCOTERM)

Total (minus R. F.) (\$): 127,297.23

Estimated Schedule (week[s]):

14

Plus Applicable Taxes

Net Weight Total (lb):

7244

Payment Terms:

Prices quoted subject to acceptance of the Company's  
Terms, Conditions, Warranty and our acceptance within 45 days  
from the date quoted herein.



QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

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Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
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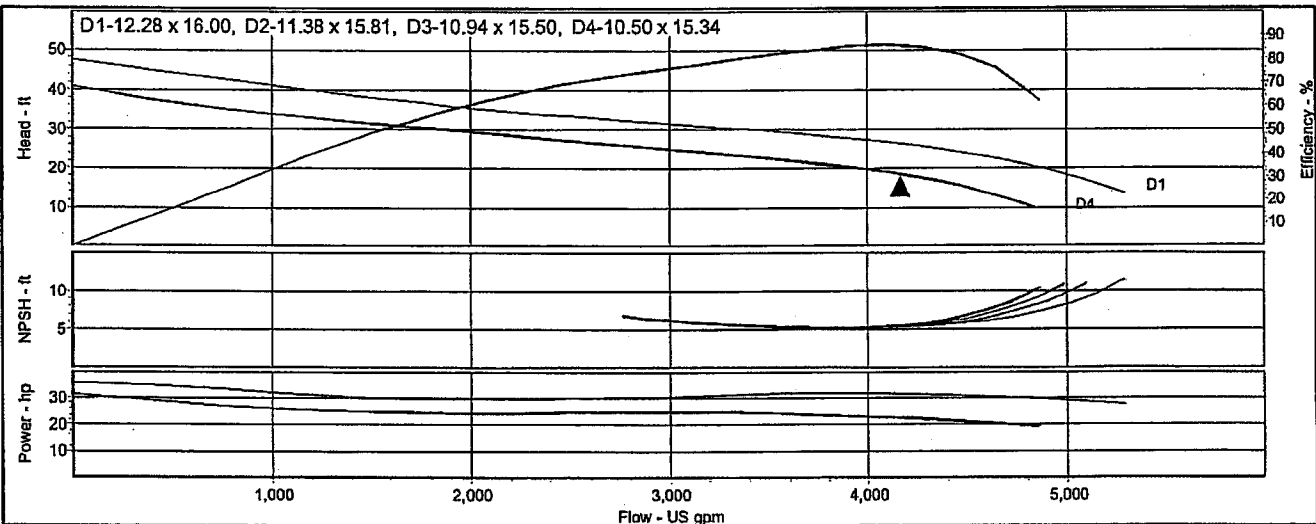
Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621

Page No : 4

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

Pump Model: Peerless Vertical - 24HH 2 Stages  
Nom. Speed: 585 RPM, 60 Hz Electric  
Markel : Vertical Turbine Pump  
Impeller No.: 2621597 / LC  
Material Spec. Group: A - B: CIE; I: Brz = Standard  
Item : 25 HP Filter Booster Pump Fluid: Water  
Your Ref. :  
Temperature: 68 °F  
Viscosity: 1.007 cSt  
Sp. Gravity: 1.000 (base temp. 68 °F)  
Flow rate Q: 4164 US gpm  
Bowl Total Head: 18 ft  
Bowl Efficiency: 85.4 %  
Bowl Power Required: 22.7 hp  
NPSH Required 5 ft

Performance curve according to Hyd Inst-Peerless Std



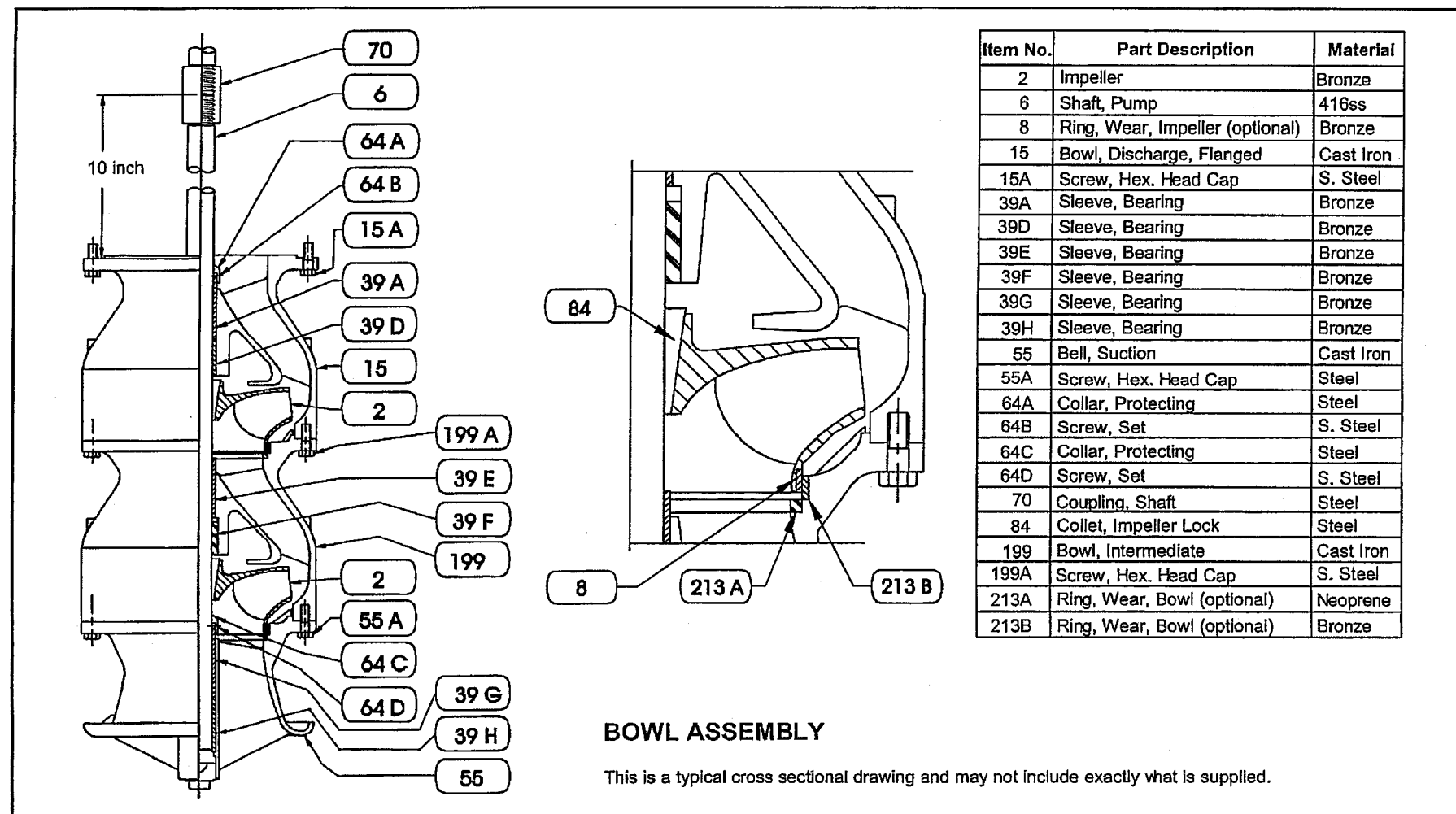
Comments

Refer to factory for all single point bowl performance guarantees. Pumps must be selected with Hydraulic Institute-Peerless Std. See Std Hydraulic Performance document in RAPID for testing tolerances & contractual guarantees.

Flow (US gpm)	Head (ft)	Efficiency (%)	Power Required (hp)	NPSH Required (ft)	Thrust (lb)
0.0	40.9	0.0	31.8		2999
607.9	36.1	19.7	28.1		2686
1215.8	32.9	39.5	25.6		2482
1823.8	30.2	56.5	24.6		2306
2431.7	27.4	68.3	24.7		2119
3039.6	24.7	76.3	24.9	6.2	1908
3647.5	21.8	82.8	24.3	5.3	1660
4255.5	17.7	85.0	22.3	5.7	1342
4863.4	9.7	62.0	19.3		878







QUOTE NOT USED

Project :	Palm Beach County CRRWF Boos	Capacity:	4164 (US gpm)	Frame/Model:	
Customer:	Cardinal Contractors, Inc.	Total Head:	18 (ft)	Elec. Spec.:	
Item No.:	25 HP Filler Booster Pump	Pump Speed:	585 (RPM)	Service Factor:	
Quote No. :	US-2695-621	Impeller Dia.:	13.17 (Inch)	Rotation:	
Pump Model:	Peerless Vertical - 24HH	Power:		Enclosure/Type:	

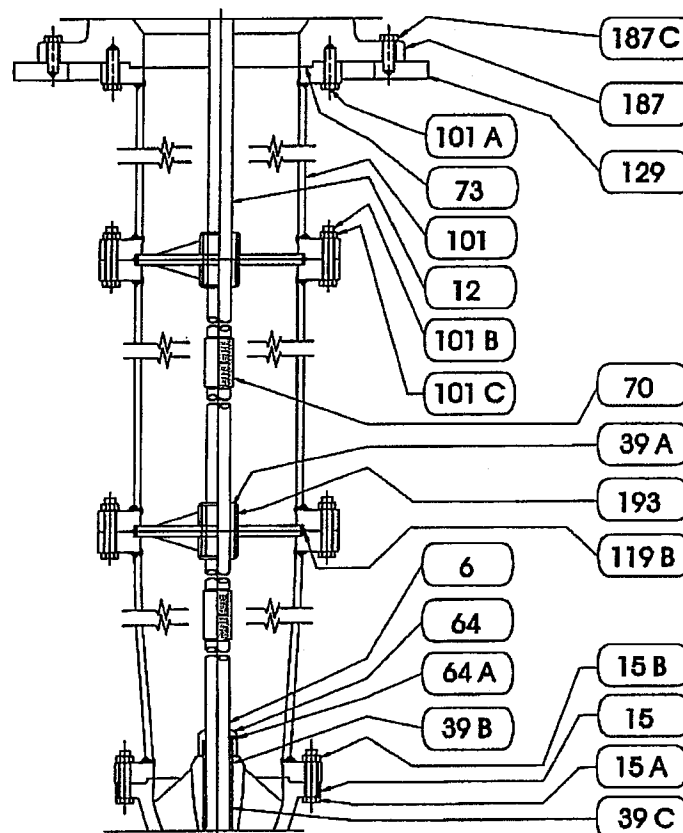


Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Date : Thursday, August 08, 2013

Page No : 5

Grundfos - RAPID v8.25.6 - 23rd March 2007.



Item No.	Part Description	Material
6	Shaft, Pump	416ss
12	Shaft, Line	416ss
15	Bowl, Discharge	Cast Iron
15A	Screw, Hex. Head Cap	Steel
15B	Nut, Hex. Head	Steel
39A	Sleeve, Bearing	Bronze
39B	Sleeve, Bearing	Bronze
39C	Sleeve, Bearing	Bronze
64	Collar, Protecting	Steel
64A	Screw, Set	Steel
70	Coupling, Shaft	Steel
73	Gasket	Vellumoid
101	Column Pipe	Steel
101A	Screw, Hex. Head Cap	Steel
101B	Screw, Hex. Head Cap	S. Steel
101C	Nut, Hex. Head	S. Steel
119B	O-Ring	Buna N
129	Sole Plate	Steel
187	Head, Discharge	Cast Iron
187C	Screw, Hex. Head Cap	Steel
193	Retainer, Bearing	Bronze

### COLUMN PIPE ASSEMBLY FLANGED CONSTRUCTION

This is a typical cross sectional drawing and may not include exactly what is supplied.

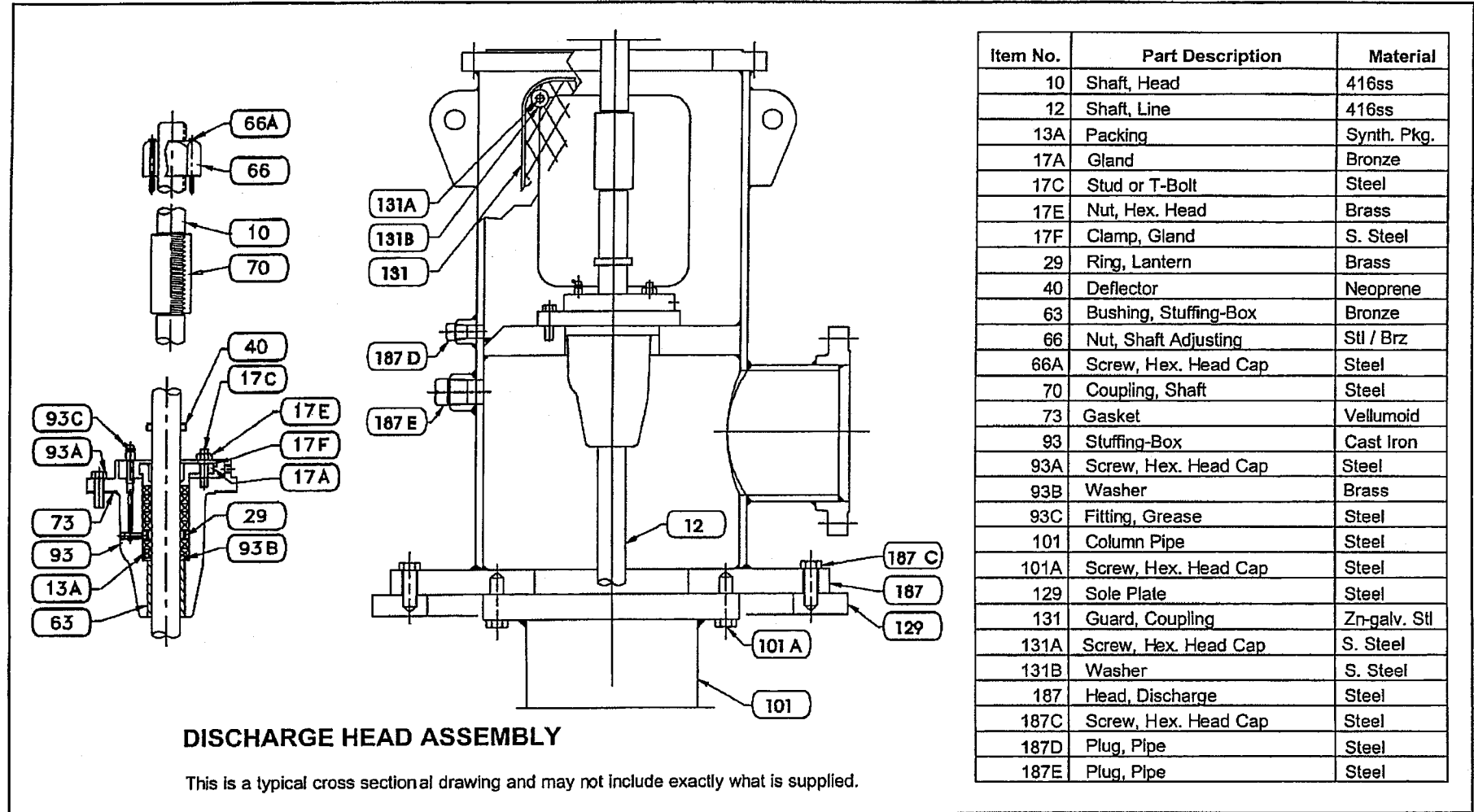
<b>Project :</b>	Palm Beach County CRRWF Boost	<b>Capacity:</b>	4164 (US gpm)	<b>Frame/Model:</b>	
<b>Customer:</b>	Cardinal Contractors, Inc.	<b>Total Head:</b>	18 (ft)	<b>Elec. Spec.:</b>	
<b>Item No.:</b>	25 HP Filter Booster Pump	<b>Pump Speed:</b>	585 (RPM)	<b>Service Factor:</b>	
<b>Quote No. :</b>	US-2695-621	<b>Impeller Dia.:</b>	13.17 (inch)	<b>Rotation:</b>	
<b>Pump Model:</b>	Peerless Vertical - 24HH	<b>Power:</b>		<b>Enclosure/Type:</b>	



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**Date :** Thursday, August 08, 2013  
**Page No :** 6

QUOTE NOT USED

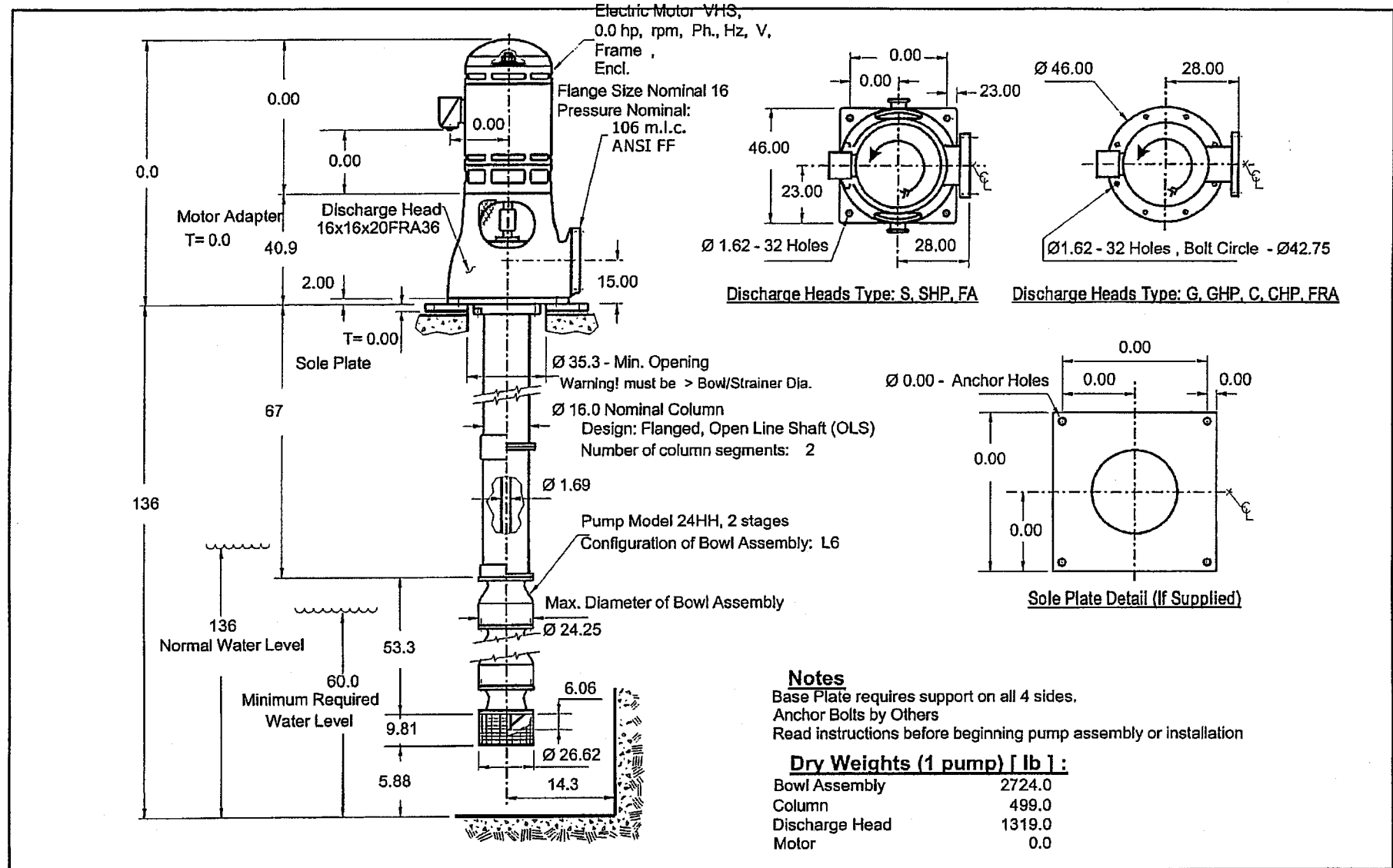


Project :	Palm Beach County CRRWF Boos	Capacity:	4164 (US gpm)	Frame/Model:	
Customer:	Cardinal Contractors, Inc.	Total Head:	18 (ft)	Elec. Spec.:	
Item No.:	25 HP Filler Booster Pump	Pump Speed:	585 (RPM)	Service Factor:	
Quote No. :	US-2695-621	Impeller Dia.:	13.17 (inch)	Rotation:	
Pump Model:	Peerless Vertical - 24HH	Power:		Enclosure/Type:	



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Date : Thursday, August 08, 2013  
Page No : 7



Dimensions in (Inch)

Project :	Palm Beach County CRRWF Booster	Capacity:	4164 (US gpm)	Frame/Model:	
Customer:	Cardinal Contractors, Inc.	Total Head:	18 (ft)	Elec. Spec.:	
Item No.:	25 HP Filler Booster Pump	Pump Speed:	585 (RPM)	Service Factor:	
Quote No. :	US-2695-621	Impeller Dia.:	13.17 (inch)	Rotation:	
Pump Model:	Peerless Vertical - 24HH	Power:		Enclosure/Type:	



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Date : Thursday, August 08, 2013  
Page No : 8

# QUOTE NOT USED

Page No : 9

## Losses of Head and Power in Pump



### Hydraulic Head Losses

In Column due to Friction	0.054 ft
In Tapered Bottom Column Pipe	0.000 ft
In Discharge Head	1.248 ft
Losses Total	1.303 ft

### Power Losses

In Column due to Friction of Line Shaft with Water	0.027 hp
In Thrust Bearing	0.000 hp
Losses Total	0.027 hp

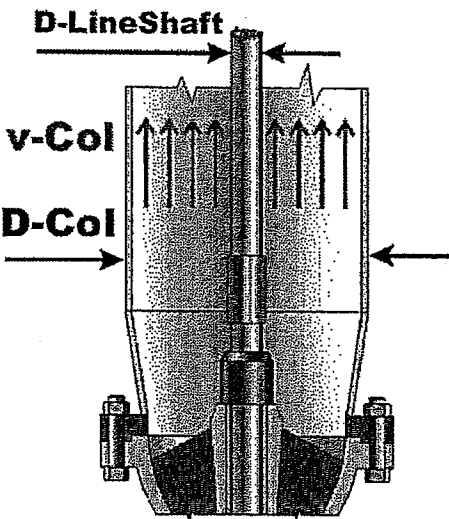
### Efficiency of BOWL and Efficiency of PUMP

Efficiency of Bowl in Duty Point	85.41%
Efficiency of Pump / Field in Duty Point (approximately), reduction caused by losses of head and power	79.54%

Column - Supplement Information



Nominal Diameter of Column D-Col =	16.0 inch
Diameter of Line Shaft D-LineShaft =	1.69 inch
Flow Velocity in Column v-Col =	6.7 ft/s



## QUOTE NOT USED WARRANTY

New equipment manufactured by Peerless Pump Company. (Seller) is warranted to be free from defects in material and workmanship under normal use and service for a period of one year from date of shipment, Seller's obligation under this warranty being limited to repairing or replacing at its option any part found to be so defective provided that such part is, upon request, returned to Seller's factory from which it was shipped, transportation prepaid.

This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, accident, neglect, or from improper operation, maintenance, installation, modification or adjustment.

This warranty does not cover parts repaired outside Seller's factory without prior written approval. Seller makes no warranty as to starting equipment, electrical apparatus or other material not of its manufacture, since the same are usually covered by warranties of the respective manufacturers thereof.

In the event, notwithstanding the terms of this agreement, it is determined by a court of competent jurisdiction that an express warranty has been given by Seller to Purchaser with respect to the head, capacity or other like performance characteristics of said equipment, Seller's liability for breach of the same shall be limited to accepting return of such equipment F.O.B. plant of manufacture, refunding any amount paid thereon by Purchaser (less depreciation at the rate of 15% per year if Purchaser has used equipment for more than thirty (30) days) and canceling any balance still owing on the equipment.

**Peerless Pump Company. in no event will be liable for indirect or consequential damages.**

**This warranty is expressly in lieu of any other warranties, expressed or implied, and seller specifically disclaims any implied warranty of merchantability or fitness for a particular purpose.**

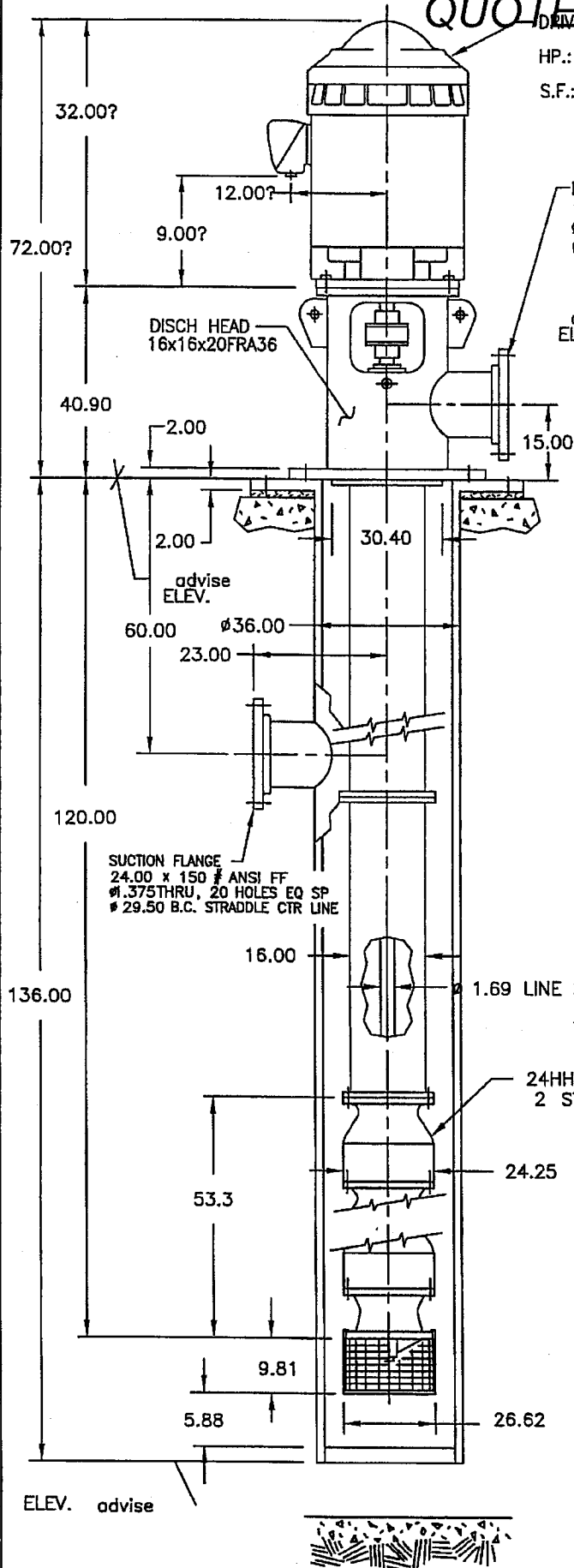


Peerless Pump Company  
2005 Dr. Martin Luther King Jr. Street  
P. O. Box 7026  
Indianapolis, Indiana 46207-7026

Phone (317) 925-9661      Fax (317) 924-7388

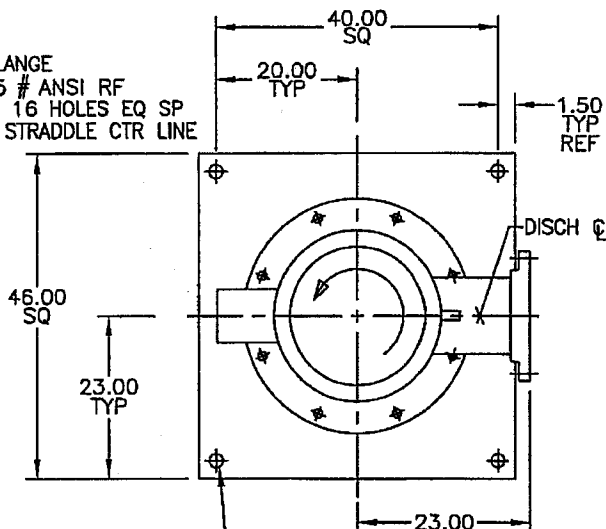
QUOTE NOT USED

DRIVER: Noted DRIVER SHAFT TYPE: VSS  
 HP.: 25 RPM.: 585 PH.: 3 HZ.: 60 VOLTS: 460  
 S.F.: 1.15 FRAME: 264 est ENCL.: TEFC



DISCHARGE FLANGE  
 16.00 x 125 # ANSI RF  
 16 HOLES EQ SP  
 21.25 B.C. STRADDLE CTR LINE

advise  
 ELEV.



NOTES:

1. BASE PLATE REQUIRES SUPPORT ON ALL 4 SIDES.
2. READ INSTRUCTIONS BEFORE BEGINNING PUMP ASSEMBLY OR INSTALLATION.

Ø0.875 THRU, 4 HOLES  
 SPACED AS SHOWN

PRELIMINARY DWG ONLY  
 DIMENSIONS SUBJECT TO CHANGE  
 AFTER ENGINEERING REVIEW

Peerless Pump Company, Inc.

Tom Evans Environmental, Inc.  
 3605 Ventura Drive East, Lakeland  
 Florida 33811 863-619-3789

PREPARED BY: Tom Evans  
 DATE: August 8, 2013

S.O. NO.:  
 SOLD TO: Palm Beach County  
CRRWRF  
 USER: PBC Water  
Boca Raton FL  
 ORDER NO.:  
 ITEM NO: Booster Pump  
 END USE: Filter Feed  
 PUMP SERIAL NO: \_\_\_\_\_

PUMP RATING:  
 FLOW: 4164  
 HEAD: 18

UNLESS OTHERWISE SPECIFIED,  
 ALL DIMENSIONS ARE IN INCHES.

SCALE: NONE DO NOT SCALE DRAWING

THIS PRINT CERTIFIED FOR:  
☒ PROPOSAL ☐ CONSTRUCTION  
☐ APPROVAL CONSTRUCTION DWGS CAN ONLY  
 BE CERTIFIED BY FACTORY  
 BY: TRE DATE: 8/8/2013

DRAWING NUMBER  
US-2695-621

APPROXIMATE DRY WEIGHT (Lbs.)	
DRIVER	700
PUMP	2724
Column and Head	1818
TOTAL	4,542

LET	REVISIONS	DATE	BY
-	-	-	-



QUOTE NOT USED  
ROAD REMOVED FROM SCOPE  
PROPOSAL / CONTRACT

8/23/2013 4:12:02PM

Florida Blacktop, Inc.

1287 W. Atlantic Boulevard

Pompano Beach, FL 33069

Contact: Paul Emmans

Phone / Fax:: PH: (954) 943-9700 / Fax: (954) 943-9222

E-Mail: paul@floridablacktopinc.com

Quote To: Vincent Capuozzi  
Company: CARDINAL CONTRACTORS, INC  
Address: 10405 TECHNOLOGY TERRACE  
LAKEWOOD RANCH, FL 34211  
Phone: 941-377-8555  
Fax: 941-377-8542  
Email: vcapuozzi@cardinalco.com

Job Name: Central Regional RWF Improvements  
Job Location: 2969 Northampton Street  
West Palm Beach, FL. 33417  
Date of Plans: None shown  
Revision Date: na

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
5	Mobilization	1.00	EA	1,200.00	1,200.00
10	Strip grass & dispose, 3"	735.00	SY	3.71	2,726.85
12	Excavate to install 1.5" asphalt + 8" base	159.00	CY	15.46	2,458.14
	Work in this proposal is limited to the items necessary for asphalt pavement installation. Tree & Root removal By others. Adjusting existing utility conflicts by others.				
20	Stabilize existing subgrade 12"	735.00	SY	6.50	4,777.50
30	F&I 8" Limerock Base	735.00	SY	14.46	10,628.10
39	Prime coat base	735.00	SY	0.50	367.50
40	F&I 1.5" Type S asphalt, 1 Lift	735.00	SY	11.99	8,812.65
100	F&I 2 carstops & paint 2 Stalls	1.00	LS	464.60	464.60
GRAND TOTAL					\$31,435.34

NOTES:

Exclusions: Bond, Maintenance of Traffic (MOT), Engineering, Layout, Testing, & Permit Fees.

FBT is Florida Blacktop, Inc.

We cannot be responsible for breakage of car stops upon removal due to prior condition, but will replace broken car stops at a unit price of \$35.00 each, not included in proposal. We will attempt to improve the existing site drainage, but due to the existing conditions and elevations of the asphalt, we cannot guarantee to eliminate all standing water. Existing cracks with vegetation growing should be prepared with a weed killer such as "Round Up" for several treatments before we arrive on the job. All material and workmanship is warranted for one year from the date of invoice. Large cracks in the existing asphalt may reflect through the new asphalt in time. It is the customer's responsibility to have the cars stop pressure-cleaned before paving is to start. Due to the uncertainty of the liquid index for asphalt, our prices may be subject to re-negotiation upon more than 5% movement in the liquid price. The liquid asphalt price will be based on the current F.D.O.T. Index

42 94

MOT, if included in this bid, pertains to work items by Florida Blacktop, Inc. Florida Blacktop, Inc. is not responsible for maintaining mot for any other trades or work items other than those items specified in this contract.



# QUOTE NOT USED ROAD REMOVED FROM SCOPE

CARDINAL CONTRACTORS, INC  
10405 TECHNOLOGY TERRACE  
LAKEWOOD RANCH, FL 34211  
PHONE: 941-377-8555  
FAX: 941-377-8542

August 23, 2013

Please complete and return per the instructions below

Florida Blacktop
Contact: Paul
Phone: 954-943-9700
E-Mail: paul@floridablacktopinc.com

Request for Proposal for:

Design Build Central Regional RWF Improvements  
Project No. WUD 13-009

Project Location:

2969 Northampton Street  
West Palm Beach, FL. 33417

Project Description: (General Description of Work) Paving

Divisions of Work Include the Following: Site Work

Cardinal Contractors, Inc. requests a quotation from your firm on the above referenced project.

Please check: Yes \_\_\_\_\_ or No \_\_\_\_\_ if you plan on sending us your quote and fax back to our office along with all pertinent information needed as soon as possible.

Plans, Specifications attached.

If you need any assistance or if you have any direct scope related questions, please contact the following:

Vincent Capuozzi, Project Estimator  
Phone: (954) 587-0520 ext. 753  
Fax: (954) 587-6653  
Email: [vcapuozzi@cardinalco.com](mailto:vcapuozzi@cardinalco.com)

Bid File 4030-13-209

*Lakewood Ranch Office:*

10405 Technology Terrace, Lakewood Ranch, FL 34211 PH: (941) 377-8555 FX: (941) 377-8542

*Ft. Lauderdale Office:*

5365 Stirling Road Ft. Lauderdale, FL 33314 PH: (954) 587-0520 FX: (954) 587-6653

# QUOTE NOT USED

**Dale C. Rossman, Inc.**

Electrical • Instrumentation • Engineering  
Electrical Contractor License No. EC13002327

P.O. Box 1021  
502 County Rd. 640 East  
Mulberry, Florida 33860  
941.428.9500

7231 Southern Blvd.  
Suite C-1  
West Palm Bch., FL 33413  
561.683-7066

## P R O P O S A L

Proposal Submitted To:

**CARDINAL CONTRACTORS, INC.**

Street:

**5365 STIRLING RD.**

City, State and Zip Code:

**DAVIE, FL. 33314**

Attention:

**VINCE CAPUOZZI**

Job Name:

**S. CENTRAL REGIONAL RECLAIM  
WATER FACILITY**

Job Location:

**PALM BEACH COUNTY**

Job Description:

**VARIOUS ELECTRICAL MODS.**

Date:

**12/10/13**

Proposal No:

**999-SCRRWF**

We are pleased to submit our quotation to furnish the necessary labor, material, tools, and equipment for the above referenced project in accordance with your request and as follows:

**FURNISH AND INSTALL ALL CONDUIT, WIRE, TERMINATIONS, AND GROUNDING FOR MODIFICATIONS TO THE ELECTRICAL SYSTEM AS SHOWN ON CALVIN GIORDANO & ASSOCIATES DRAWINGS. INCLUDES ALL START-UP AND (2) PLC I/O CARDS AS REQUIRED.**

### NOT INCLUDED:

**SAWCUTTING OR PATCHING OF PAVEMENT OR CONCRETE, PUMPS, VFDS, INSTRUMENTATION OR IMPULSE PIPING, FINAL RESTORATION OR SODDING. ELECTRICAL PERMIT AND TEMPORARY POWER NOT INCLUDED, BUT AVAILABLE FOR EXTRA COSTS.**

Price is based on a normal 40 hour work week. Premium time is not included. Thank you for the opportunity to submit our proposal and we look forward to serving you.

For the sum of:

**ONE HUNDRED SIXTEEN THOUSAND DOLLARS**

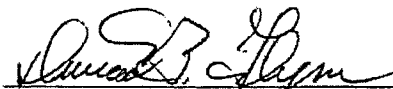
Dollars(\$):

**\$116,000**

Payment to be made as follows: **PROGRESS PAYMENTS - MATERIALS STORED ON SITE - NET FIFTEEN (15) DAYS**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized  
Signature



David Flynn Project Manager

Note: This proposal may be withdrawn if not accepted within  
THIRTY (30) days.

Acceptance of proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. Dale C. Rossman, Inc., is authorized to do the work as specified. Payment will be as outlined above.

Signature: \_\_\_\_\_

Date of Acceptance: \_\_\_\_\_

Signature: \_\_\_\_\_



large particles will be removed from the influent and a new pipeline shall be installed to lift station 5240. Lift station 5240 is a dry can station which is being converted to a submersible station under a separate project. Coordinate connection with LS 5240 wet well and pipeline flow requirements with Holtz Engineering. Provide 480V, 3 phase power with disconnect to the strainer. Owner will provide any required maintenance on the existing strainer. Electrical service will originate at the Main Power Panel (PP-1) and shall be extended to the strainer power panel. The panel shall be provided with the necessary starters, control power transformer, necessary breakers, protective devices, and circuitry as stated in the owner furnished strainer O&M. Design Build Entity shall install strainer and provide the manufacturers startup services.

5. Provide a check valve and automatic controls on the existing recirculation/rechlorination process. Additionally, the manually operated valves that are currently used to transition to the recirculation process will be provided with motorized operators (open-closed) with limit switches to provide automatic control with feedback through SCADA of this process.
6. The electrical design will be based on the understanding that the existing electrical system has the needed spare capacity to support the proposed booster pump, the strainer with the elimination of the existing 25 HP Reuse Distribution pump. PBCWUD to provide 12 months' worth of FPL power bills for the facility for our use.
7. Demolish the existing generator building from the original Century Village Wastewater Treatment Plant including all electrical equipment, diesel generator, fuel tank and building foundation.
8. Provide a new building (total approximately 400 SF) partitioned into 2 sections, an office area and a storage area. The building shall either be precast concrete or concrete masonry unit with stucco. The air conditioned office area shall include unisex ADA compliant bathroom, office area with laboratory sink with counter and cabinets. Storage area shall include rollup door for storing golf cart used to transport reclaimed water samples. Building shall be designed for building code with Florida Product approval. Connect to existing water supply and sanitary sewer. Connect electric to the existing electrical building. It is our understanding that the proposed structure will be pre-wired to include a 100A, 3P Disconnect switch, 100A, 3P panelboard, HVAC, wiring devices and lighting and restroom facility.
9. Provide instrumentation and control system for new equipment with all conduit and wiring to PLC. Provide additional I/O for PLC as necessary. PLC programming shall be contracted separately by Owner. Owner will also modify SCADA IFIX screens and panel view displays. Design is based on the understanding that the control system at the site has the available capacity to support the additional I/O; no I/O modules will be required. PBCWUD to provide the asbuilt panel drawings as prepared by the System Supplier.

Project deliverables:

- A. Provide 3 full sized and 3 half sized plans at 60%, 90% and 100% design. Respond to all 60% and 90% review comments in writing.
- B. Submit for FDEP permit at 60% design with engineering report, signed and sealed drawings and permit application.
- C. Provide 3 sets of signed and sealed full sized prints for building permit. County will be responsible for site plan modifications and abstracted survey.
- D. Coordination meetings will be held at 60%, 90% and 100% design.
- E. Provide 8 sets of shop drawings beginning at 90% design.
- F. Provide record drawings CAD and PDF formats and 3 full size sets.
- G. Separate Notice to Proceeds will be issued for design and construction
- H. Construction meetings will be held monthly after notice to proceed.
- I. Conform to the Water Utilities Minimum Design and Construction Standards, Engineering Design-Manual and security requirements.
- J. Salvaged materials:
  - a. Scrap metal to be placed in the County's salvage dumpster.
  - b. Non-metal waste such as concrete, PVC, fiberglass etc to be hauled and legally disposed by Design-Builder.

### **1.2 Permits and Fees**

It shall be the Design-builder's responsibility to secure all permits required to complete the work under this contract, except permits obtained by the Owner. The Design-builder shall be responsible for all inspections and requirements to close-out the completed permits. The Owner shall pay all permit fees.

### **1.3 Tests**

The Design-builder shall pay for all required soils and concrete tests.

### **1.4 Site elevations, Lines, and Grades**

The Design-builder shall employ a land surveyor registered in the State of Florida. The Design-builder shall be responsible to establish elevations, lines, and levels, utilizing recognized engineering survey practices. The Design-builder shall provide all labor, instruments and stakes, templates, and other materials necessary for marking and maintaining all lines and grades. The Design-builder shall submit a copy of as-built drawings signed/sealed by the land surveyor that the elevations and locations of the work in Florida State plane coordinates are in conformance with the contract documents.

### **1.5 Work Area**

The Design-builder shall confine his activities to the site(s) designated by Owner for the work or staging areas for materials storage. All debris, materials, piping, and miscellaneous waste products from the proposed work shall be removed from the project as soon as possible. They shall be disposed of in accordance with applicable federal, state, and local regulations. The Design-builder shall be responsible for determining these regulations and shall bear all costs or retain any profit associated with disposal of these items.

The Design-builder shall protect his work throughout its length by the erection of suitable barricades and handrails, where required. The Design-builder shall further

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indicate this work at night by the maintenance of suitable lights or flares, especially along or across thoroughfares. Wherever it is necessary to cross a public walk, the Design-builder shall provide suitable safe walkways with hand railings. The Design-builder shall also comply with all laws or ordinances covering the protection of such work and the safety measures to be employed therein. The Design-builder shall carry out his work so as not to deny access to private property. All utility access manholes, valves, and fire hydrants shall be kept accessible at all times. No trenches or holes near walkways, in roadways or road shoulders are to be left open during night hours without the permission of the Owner.

#### **1.6 Underground Utilities**

All water pipes, storm drains, force mains, gas or other piping, telephone or power cables or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from or supported across pipeline excavations. Before disconnecting any pipes or cables, the Design-builder shall obtain permission from the Owner, or shall make suitable arrangements for their disconnection by the Owner. The Design-builder shall be responsible for any damage to any such pipes, conduits or cables, and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power and telephone installations along route of new pipelines or in vicinity of the work are shown on as-built drawings, but must be verified in the field by the Design-builder. The Design-builder shall uncover these pipes, ducts, cables, etc., carefully, by hand, to verify location and depth of cover. Any discrepancies or differences found shall be brought to the attention of the Owner in order that necessary changes may be made. Where fences, walls or other man made obstructions exist illegally in the public right-of-way, the Owner will have them removed upon adequate prior notice by the Design-builder.

All excavation activity shall comply with Florida Statute 553.851 regarding notification of existing gas and oil pipeline company Owners and shall also notify "SUNSHINE STATE" at 1 (800)-432 4770 at least forty-eight (48) hours prior to excavating. Evidence of such notice shall be furnished to the Owner prior to excavating. Provide independent locate firm within plant and pump station boundaries.

Protect existing chemical trench and chemical piping.

#### **1.7 Maintenance of Operations**

The Design-builder's activities or any partial SCADA shutdowns shall minimize disruption to the treatment facilities and conveyance. The Design-builder shall schedule and perform the proposed work in a manner such that the Owner can keep the existing treatment and conveyance facilities in continuous dependable operation. Operation of all existing valves, gates and equipment shall be performed by Owner.

#### **1.8 Plant Shutdowns**

Owner shall approve all SCADA and plant shutdowns.

#### **1.9 Project Coordination**

Design-builder shall be solely responsible for coordination of all of the proposed work. He shall supervise, direct and cooperate fully with all sub-contractors, manufacturers,

fabricators, suppliers, distributors, installers, testing agencies and all others whose services, materials or equipment are required to ensure completion of the proposed work within the contract time.

Design-builder shall cooperate with and coordinate his work with the work of any other contractor, utility service company or Owner's employees performing additional work related to the project at the site. Design-builder shall not be responsible for damage done by Design-builders not under his jurisdiction. Design-builder shall not be liable for any such loss or damage unless it is through the negligence of Design-builder. Design-builder shall also coordinate his work with the work of others to assure compliance with schedules.

Design-builder shall attend and participate in all project coordination or progress meetings and report on the progress of all work and compliance with schedules.

The Design-builder shall provide and maintain a field office with telephone facilities where he or a responsible representative of his organization may be reached at any time while work is in progress.

## **Part 2 Acceptance Test Requirements**

The Design-builder shall be responsible for coordinating and completing the overall system startup and testing. The Design-builder is responsible for providing all labor, equipment, and materials for conducting systems startup and testing.

### **2.1 Starting and Placing Equipment in Operation**

Design-builder shall initially start-up and place all equipment installed into successful operation according to manufacturer's written instructions and as instructed by manufacturer's field representative. Design-builder shall provide all material, labor, tools, equipment, chemicals, lubricants, and expendables required to complete start-up. No system or subsystem shall be started up for continuous operation unless all components of that system or subsystem, including instrumentation, have been tested and proven to be operable as required for proposed work.

General system startup activities include: cleaning; removing temporary protective coatings; flushing and replacing greases and lubricants, where required by manufacturer; lubrication, checking shaft, and coupling alignments and resetting where required; checking and setting motor, pump and other equipment rotation, safety interlocks, and belt tensions; checking and correcting if necessary leveling plates, grout, bearing plates, anchor bolts, fasteners, and alignment of piping which may put stress on pumping equipment; performing any adjustments; providing chemicals and lubricants and all other required operating fluids; providing fuel, electricity, water, filters, and other expendables required for start-up of equipment.

Owner shall provide sufficient personnel to assist Design-builder in the start-up, but the prime responsibility for proper mechanical operation shall belong to Design-builder. Manufacturer's representatives shall be present during initial start-up and operation. Owner shall assume responsibility for operation of the equipment upon completion of start-up and placing equipment in operation.



## **2.2 Minimum Start-Up Requirements**

- A. After system has been placed in operation the Design-builder shall clean strainers, drives, pockets, orifices, valve seats and headers in fluid system to assure freedom from foreign materials. He shall remove rust, scale and foreign materials from equipment and renew defaced surfaces. All visible leakage shall be repaired.
- B. The Design-builder shall check each electrical control circuit to assure that operation complies with regulations and requirements of proposed work and to provide desired performance. The Design-builder shall vent gasses trapped in any part of systems and verify that liquids are drained from all parts of gas or air systems.
- C. The Design-builder shall inspect for cleanliness, and clean and remove all foreign materials, verify alignment, replace defective bearings and those, which run rough or noisy, and grease as necessary and in accord with manufacturer's recommendations.
- D. The Design-builder shall adjust tension in V-belt drives, and adjust varipitch sheaves and drives for proper equipment speed, adjust drives for alignment of sheaves and V-belts, and clean and remove foreign materials before starting operation.
- E. The Design-builder shall check each motor for comparison to amperage nameplate value and correct conditions which produce excessive current flow and exist due to equipment malfunction.
- F. The Design-builder shall check glands and seals for cleanliness and adjustment before running pump; inspect shaft sleeves for scoring; inspect mechanical faces, chambers, and seal rings, and replace if defective; and verify that piping system is free of dirt and scale before circulating liquid through the pump.

## **2.3 Equipment Startup and Performance Testing**

The Design-builder shall be responsible for performance testing during startup of all mechanical, electrical, instrumentation, and piping equipment and systems.

- A. Provide a testing plan setting forth the sequence in which all testing work required for the proposed upgrades will be implemented.
- B. A documentation the results of all equipment and system tests and submit to the Owner. Provide calibration tags for all equipment certifying the date of calibration.

## **2.4 Instruction of Operations and Maintenance Personnel**

Training shall be provided prior to turning the operation of a system, unit process or piece of equipment. Training shall be scheduled for each plant staff work shift accordingly. No system, unit process or any piece of equipment shall be started up for continuous operation without the approved operation and maintenance manuals being turned over to Owner.

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Design-builder shall provide services of supplier's operation and maintenance training specialists to instruct Owner's personnel in recommended operation and maintenance procedures for products and equipment. Supplier may be required to provide a combination of classroom and field training. All training shall be conducted at the site, unless otherwise stated in the Specifications. Owner reserves the right to videotape training sessions.

Training of plant's personnel shall commence only after acceptable preliminary operation and maintenance data have been provided and starting and placing equipment in operation and equipment and system startup and performance testing, has been completed. Provide written documentation and checklists outlining important training items. Provide spreadsheets needed to document new processes for input by operators.

### **Part 3 Technical Requirements**

#### **3.1 Plant Site / Civil Requirements**

The Design-builder shall be responsible for becoming completely familiar with the site conditions in connection with developing the final site plan including all site investigations, analysis of subsurface conditions, geotechnical conditions, and soil borings.

#### **3.2 Demolitions**

Design-builder shall be responsible for all labor, materials, equipment and incidentals required for demolitions and pay for all disposal fees. Design-builder shall not start removals without the permission of the Owner. At least 48 hours prior to commencement of any demolition activities, the Design-builder shall advise the Owner, in writing, of the proposed schedule.

Design-builder shall carry out operations so as to avoid interference with Owner's operations and work in the existing facilities. Design-builder shall perform all demolition and removal work so as not to interfere with the use and safe passage to and from adjacent structures and shall prevent damage or injury to structures, occupants, and adjacent features, which might result from falling debris or other causes. Design-builder shall erect and maintain barriers, lights, sidewalk sheds, and other necessary protective devices. The Design-builder is responsible for repairing damage to the Owner's property or facilities.

Design-builder shall not bring explosives on site nor use explosives without written consent of authorities having jurisdiction. Design-builder shall use water sprinkling, temporary enclosures, and other suitable methods for dust control within the lowest practical level in compliance with governing regulations.

Surfaces of walls, floors, ceilings, or other areas, which are exposed by any of the removals, and which will remain as architecturally finished surfaces shall be repaired and re-finished by Design-builder with the same or matching materials as the existing adjacent surface. Adjacent structures, facilities, and improvements of dust, dirt, and

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debris caused by demolition operations shall be cleaned and returned to pre-construction conditions.

Where piping that is to be removed passes through existing walls, the piping shall be cut off and properly capped on each side of the wall. When underground piping is to be altered or removed, the remaining piping shall be properly capped. Abandoned underground piping may be left in place and grouted under major structures/roadways, unless it interferes with the work. Any changes to potable water piping work shall be made in conformance with all applicable codes and under the same requirements as other underground piping.

All materials and equipment removed from existing work shall become the property of Design-builder, except for those which Owner has identified and marked for their use. All materials and equipment marked by the Owner for its use shall be carefully removed by Design-builder so as not to be damaged, and shall be cleaned and stored in a protected location specified by the Owner. Design-builder shall dispose of all demolition materials, equipment, debris, and all other items not marked by the Owner, off the work site and in conformance with all existing applicable laws and regulations. Upon completion of the work, all materials, equipment, waste, and debris of every sort shall be removed and premises shall be left, clean, neat and orderly.

### **3.3 Excavation and Backfill**

Design-builder shall furnish all labor, materials, equipment and incidentals required to perform all excavating, backfilling and disposing of earth materials required for the purpose of constructing structures, conduits, pipelines, grading, and other facilities required to complete the work in every respect.

Design-builder shall be solely responsible for designing, installing, operating and maintaining whatever system is required to satisfactorily accomplish all necessary sheeting, bracing, protection, underpinning and dewatering.

Design-builder shall be responsible for all field test data and shall submit to Owner copies of the following test reports from his testing laboratory.

Design-builder shall perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction. Design-builder shall obtain all necessary permits for work in roads, rights of way, etc. He shall also obtain permits as required by local, state and federal agencies for discharging water from excavations. The use of explosives will not be permitted.

Data on subsurface conditions will be made available by Owner for the convenience of Design-builder. The reports are not intended as a representation or warranty of continuity of such conditions between soil borings. Owner will not be responsible for interpretations or conclusions drawn by Design-builder. Additional test borings and other exploratory operations may be made by Design-builder at no cost to Owner.

Drawings from existing records showing certain surface and underground structures adjacent to the work will be made available by Owner. It is not guaranteed to be correct or complete and is shown for the convenience of the Design-builder. Design-builder shall explore ahead of the required excavation to determine the exact location of all structures. They shall be supported and protected from injury by the Design-builder. If they are broken or injured, they shall be restored immediately by the Design-builder at its expense.

Design-builder shall locate existing underground utilities in the areas of work. If utilities are to remain in place, Design-builder shall provide adequate means of protection during earthwork operations. If uncharted or incorrectly charted piping or other utilities are encountered during excavation, Design-builder shall consult the Owner immediately for directions as to procedure. Design-builder shall cooperate with Owner and utility companies in keeping respective services and facilities in operation. Design-builder shall repair damaged utilities to the satisfaction of Owner.

Design-builder shall not interrupt existing utilities serving facilities occupied and used by Owner or others, except when permitted in writing by Owner and then only after acceptable temporary utility services have been provided.

### **3.4 Cast-In-Place Concrete**

Design-builder shall be responsible for providing concrete consisting of portland cement, fine and coarse aggregate, water, and approved admixtures; then combined, mixed, transported, placed, finished and cured to accommodate the proposed work. All admixtures, curing compounds, etc. used in concrete or the curing and repair of concrete, which can contact potable water, shall be certified as conforming to the requirements of ANSI/NSF 61 for contact with potable water when in the finished concrete.

### **3.5 Miscellaneous Metals**

All metals shall be non-ferrous except of steel reinforcing and as approved by the Owner. All bolt, nuts and washers shall be 316 stainless steel the nuts shall be coated to prevent galling. Anchor bolts shall be 316 stainless steel. Stanchions, pipe supports, equipment bases, braces and straps shall be 316 stainless steel or aluminum.

### **3.6 Painting**

Design-builder shall provide all labor, materials, tools, equipment, and incidentals as required to furnish and apply paint systems for surface preparation and painting of all new and existing interior and exterior items and surfaces throughout the project areas. Mechanical and process items to be painted include new and existing walls, floors, piping, mechanical equipment, supports, and any pertinent accessory items or area damaged by the construction activity. Owner's approval shall be required for all components of the surface preparation, selection of colors, and paint system application before start of proposed work.

## **Part 4 Electrical Requirements**

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#### **4.1 Basic Requirements**

Design-builder shall design and provide all labor, materials, equipment and incidentals to complete the electrical work. All systems shall be properly grounded. Exterior systems shall have lightning protection.

#### **4.2 Codes**

Material and equipment shall be installed in accordance with the current standards and recommendations of the National Electrical Code, the National Electrical Safety Code, and with local codes, which apply. Where discrepancies arise between codes, the most restrictive regulation shall apply.

#### **4.3 Area Classifications**

##### **A. Wet Locations**

The following areas shall be considered wet locations:

1. All outdoor areas.
2. All indoor areas below grade unless otherwise specified.
3. Materials, equipment and incidentals in areas identified as wet locations shall meet NEC and NEMA requirements for wet locations. Enclosures shall meet NEMA 4 requirements as a minimum. Conduits shall be terminated at enclosures with watertight, threaded hubs.

##### **B. Corrosive Locations**

All chemical storage and pumping areas or rooms. Materials, equipment and incidentals in areas identified as corrosive shall meet NEC and NEMA requirements for corrosive locations. Conduit systems shall be PVC and enclosures shall meet NEMA 4X requirements. Conduits shall be terminated at enclosures with watertight hubs. Independent supports shall be PVC-coated galvanized steel, or fiberglass-reinforced epoxy struts.

#### **4.4 Electrical Equipment**

All new electrical equipment shall be capable of operating successfully at full-rated load, without failure, with an ambient outside air temperature of 0 degrees F to 122 degrees F and an elevation of 400 feet (MSL). All electrical devices and equipment shall have ratings based on 75 degrees C terminations. All electrical equipment enclosures at a minimum shall meet NEMA 12 requirements.

#### **4.5 Schematic Diagrams**

Schematic diagrams shall be prepared by the Design-builder to act as guidance in fulfilling the operational intent of the conceptual documents. It shall be the Design-builder's responsibility to meet all safety and electrical codes, and to provide all equipment, appurtenances and specialty items required to provide for complete and operable systems. Review of control schemes submitted by Design-builder shall not relieve Design-builder of their contractual responsibility to provide complete and successfully operating systems.

#### **4.6 Raceway Systems**

Design-builder shall furnish and install conduit and fittings to form complete, coordinated and grounded raceway systems. Design-builder shall provide for the proper installation of all conduits for each system.

- A. Rigid aluminum conduit for exposed indoor conduit runs in non-corrosive areas and rigid aluminum at all other sites.
- B. PVC Schedule 80 for individual conduit runs direct buried in earth and PVC coated rigid steel at all other sites (minimum 24-inch burial depth).
- C. Schedule 40 PVC for conduit runs embedded in or under structural concrete slabs or in concrete ductbanks (all sites).
- D. PVC schedule 80 conduit for exposed indoor and outdoor runs in corrosive areas and PVC coated rigid steel at all other sites.
- E. Flexible conduit for connections to motors and equipment.

#### **4.7 Inspections, Testing and Adjustments**

Accompany the normal installation tests with inspections to demonstrate to the satisfaction of the required judicial authorities the following:

- A. Connections: All circuits are properly connected in accordance with the drawings and applicable approved shop drawings.
- B. Operation: All circuits and devices are operable.
- C. Identification: All conductors are properly identified at each terminal.

Test each electrical circuit after permanent cables are in place to demonstrate that the circuit and connected equipment perform satisfactorily and that they are free from improper grounds and short circuits. Individually test 600-volt cables for insulation resistance between phases and from each phase to ground. Test after cables are installed and before they are put in service with a Megger whose rating is suitable for the tested circuit. Tests shall meet with the applicable specifications of ICEA S 66 524 and NEMA WC7 1971. The insulation resistance for any given conductor shall not be less than 1 megohm for 600 volt and less service. Any cable not meeting this value or which fails when tested under full load conditions shall be replaced with a new cable for the full length.

Test shielded instrumentation cable shields with an ohmmeter for continuity along the full length of the cable and for shield continuity to ground. Connect shielded instrumentation cables to a calibrated 4-20 milliamp DC signal transmitter and receiver. Test at 4, 12, and 20 milliamp transmitter settings.

Test the completed ground systems for continuity and for resistance to ground using an electrical ground resistance tester. Ground system resistance must be less than 5 ohms. Add up to two additional rods, spaced at 20 feet minimum from other electrodes, until resistance is less than 5 ohms.

Operate all starters, circuit breakers and associated equipment to demonstrate suitability and compliance with Specifications and reference standards, except for short circuit interrupting rating or other inherent design features covered by shop tests. Test all motors for direction of rotation and reverse connections if necessary. Check control

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circuits to determine that operation and sequence are correct and adjust limit switches, pressure switches, float switches, timers and other devices to give proper operation.

## **Part 5 Instrumentation and Control Requirements**

### **5.1 General**

Design-builder shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish, install, calibrate, test, start-up and place in satisfactory operation a complete and operating system for proposed work, including programming of the PLC, SCADA, and all required wire terminations. Tag number, equipment number, and description shall match the Owners numbering convention standards.

### **5.2 Calibration, Start-Up and Testing**

Field verify the calibration and performance of each instrument prior to start-up of the associated equipment, and document on a separate sheet for each.

### **5.3 System Check-Out and Start-Up Responsibilities**

Design-builder shall retain the services of the system supplier to supervise and/or perform check out and startup of all system components. As part of these services, the system supplier shall coordinate and include check-out and start-up for those equipment items not manufactured or provided by him. The services of an authorized manufacturer's representative to check the equipment installation and place the equipment in operation may be required. The manufacturer's representative shall be thoroughly knowledgeable about the installation, operation and maintenance of the equipment.

Check and approve the installation of all instrumentation and control system components and all cable and wiring connections between the various system components prior to placing the various processes and equipment into operation. Conduct a complete system checkout and adjustment, including calibration of all instruments, tuning of control loops, checking operation functions, and testing of final control actions. When there are future operational functions included in this work, they should be included in the system checkout. All problems encountered shall be promptly corrected to prevent any delays in startup of the various unit processes.

System supplier shall provide all test equipment necessary to perform the testing during system checkout and start up. Design-builder and system supplier shall be responsible for initial operation of monitoring and control system and shall make any required changes, adjustment or replacements for operation, monitoring and control of the various processes and equipment necessary to perform the functions intended.

Design-builder shall furnish to the Owner certified calibration reports for field instruments and panel mounted devices specified in this Section as soon as calibration is completed. Design-builder shall furnish Owner an installation inspection report certifying that all equipment has been installed correctly and is operating properly. The report shall be signed by authorized representatives of both Design-builder and the system supplier.

#### **5.4 Instrumentation and Control System Field Test**

Following the plant monitoring and control system checkout and initial operation, system supplier, under the supervision of the Design-builder, shall perform a complete system test to verify that all equipment and programmed software is operating properly as a fully integrated system, and that the intended monitoring and control functions are fully implemented and operational. Any defects or problems found during the test shall be corrected by system supplier, and then retested to demonstrate proper operation. Following demonstration of all system functions, the plant monitoring and control system including field sensors/transducers and instruments, and telemetry system shall be running and fully operational for a continuous 72 hour period.

#### **5.5 Control Panels and Enclosures**

Control panels located inside control or electrical room areas shall be NEMA 12 rated unless differently noted on drawings. All others shall be stainless steel or non-metallic NEMA 4 except in corrosive areas, which shall be NEMA 4X. Provide panel ventilation or air conditioning if required by ambient conditions. Use pan type construction for doors. Door widths shall not exceed 36-inches. Exterior panel with displays shall face north. Exterior control panels shall be 316 stainless steel with powder coated white epoxy exterior finish with sunshield.

#### **5.6 Surge Protection**

Surge protection shall be provided to protect all electronic instrumentation from surges propagating along the signal, telephone, and power supply lines. Locate the suppression device as close as possible to the load device. The protection systems shall be such that the protection level shall not interfere with normal operation, but shall be lower than the instrument surge withstand level, and be maintenance free and self-restoring. Instruments shall be housed in suitable metallic cases, properly grounded. Ground wires for all surge protectors shall be connected to a good earth ground and where practical each ground wire run individually and insulated from each other.

#### **5.7 Lightning Protection**

Furnish and install UL certified lightning protection system including grounding system. Grounding grid resistance shall be 5 ohms or less.

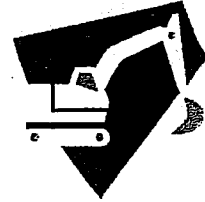
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ATTACHMENT K  
SUPPORTING DOCUMENTATION



GENE CONTRACTING DEMOLITION, INC.  
3831 W. State Road 84, Ste #101, Davie FL 33312  
Office (954) 587-3956 Fax (954) 587-6678  
Email: [genecontracting@bellsouth.net](mailto:genecontracting@bellsouth.net)



August 26, 2013

Cardinal Contractors, Inc.  
5365 Stirling Road  
Ft-Lauderdale, FL 33314

Attn: Vincent Capuozzi, Project Estimator - [vcapuozzi@cardinalco.com](mailto:vcapuozzi@cardinalco.com)  
Phone: (954)587-0520

Re: Central Region RWF – Project No. WUD 13-009  
2969 Northampton Street  
West Palm Beach FL 33417

Bid Item as Listed Below:

- . Demolition; Removal and Disposal of all debris off site as indicated on the site visit with Vincent Capuozzi of Cardinal.
- . To include the following items:
  - Demolish and Remove a CBS building with all associated slab and foundations.
  - Existing generator to be salvage and transported to a destination location no more than 50 mile from site.
  - Generator slab and above fuel tank to be remove and dispose off.
  - If fill is needed , it will be supplied

**PRICE QUOTE: \$ 14,500.00**

- \*All Surveys and/or removal/disposal of asbestos and/or any hazardous; Regulated and contaminated materials by others.
- \*All Permits to be provided by owner and/or General Contractor.
- \*All Lay-out (if any) to be provided by General Contractor or others.
- \*All Disconnects and capping of MEP by General Contractors or others..
- \*All Demolition Salvage to be the property of Gene Contracting Demolition, Inc.

If you have any questions or concerns, please contact **Jean Meunier at (954) 205-0384.**

“Terms are Proposal Quote is valid for 60 Days from above date”

# THE MACK COMPANY

17088 GULF PINE CIRCLE  
WELLINGTON, FL 33414  
561-798-3131

December 17, 2013

Mr Mike Brandao  
Cardinal Contractors  
5365 Stirling Rd  
Ft Lauderdale, FL 33314

Subject: S P Kinney Strainer Startup Service

Dear John,

The Mack Company will provide startup services for the S P Kinney Automatic Backwashing Strainer, relocated to the Central County Reuse Facility by Century Village in West Palm Beach. Services will include equipment inspection, initial startup, and training of operators

TOTAL PRICE.....\$ 1,500.00 per day. Price does not include any taxes is payable 100% net 30 upon completion of start up.

Please let me know if you have any questions or need additional information.

Yours Truly,

James R Wahl  
Vice President



[www.oldcastleprecast.com](http://www.oldcastleprecast.com)

27 Amlajack Blvd  
Newnan, GA 30265

Phone (770) 304-4656  
Fax (770) 304-4640  
[tammy.storey@oldcastle.com](mailto:tammy.storey@oldcastle.com)

August 2, 2013

Justin Randolph  
Cardinal Contractors  
10405 Technology Terrace  
Lakewood Ranch, FL 34211

Central Region Reclaimed Water D.B.

**Quote 21-1964**

Oldcastle is pleased to provide **Cardinal Contractors** pricing to manufacture and supply our **RCS1234** precast concrete shelter. We have configured this shelter based on the information and/or specifications submitted to us; however, please review the following scope of work carefully as we are quoting only what is specifically listed in that scope.

With over thirty years of experience in the precast shelter industry, Oldcastle will exceed your expectations in quality and service.

In the event that you require additional information or clarification, please contact me at 770.304.4656 or e-mail: [tammy.storey@oldcastle.com](mailto:tammy.storey@oldcastle.com). I look forward to working with you to satisfy your shelter needs.

Sincerely,

*Tammy Storey*

Tammy Storey  
Account Executive / Sales  
Oldcastle Precast  
Newnan, GA

Delivering Reliability

Enclosures: Scope of Work, Terms and Conditions, Pricing

## SCOPE OF WORK

### I. Precast Structure

#### **A. Structure Engineering**

- ♦ Drawings: Detailed engineering and drawings will be provided for all items in this Scope of Work. The structural drawings will be stamped by a professional engineer registered in the state of building placement.
- ♦ State Approvals: Oldcastle will receive state approval as required. As such, Oldcastle reserves the right to amend the proposed Scope of Work to comply with any code or regulation required to obtain state approval.
- ♦ Exclusions: Local/municipal inspections and approvals, including site inspections, building permits, and zoning approvals (except as discussed herein) are not included. Oldcastle is not responsible for determining such local requirements.

#### **B. Precast Concrete Shell**

- ♦ Size: (1) RCS 1234 concrete shelter  
Outside dimension – 34'-0" Long x 11'-8" Wide x 10'-1" High  
Finished inside dimension – 33'-0" Long x 10'-8" Wide x 9'-0" High
- ♦ Weight: Approximate finished weight: 82,000 pounds
- ♦ Specifications: Floor load: 200 PSF  
Roof load: 60 PSF  
Wind load: 150 MPH, Exp "C"
- ♦ Bullet Resistance: UL752 Level 4 equivalent
- ♦ Seismic Zone: Up to 50% gravity acceleration per IBC2010 specifications ( Higher ratings are available up to 300% gravity acceleration)

#### **C. Finishes**

- Exterior Walls: Solid Precast Concrete, 4" Thick with Exposed aggregate with tinted sealer and Tan trim
- Interior Wall & Ceiling: White 1/2 " FRP in office area, Painted in storage area
- Insulation: R-11 in walls and ceiling in office area, None in storage area
- Telco Board: None Requested
- Floor: Vinyl composition tile with rubber base molding
- Roofing: White Elastomeric coating

**\*\*Note:** Oldcastle standard interior finish is quoted

**\*\*Note:** Many states have adopted or will be adopting new energy codes which may require additional interior insulation. If additional insulation is required, a change order will be needed to cover these additional costs.

#### **D. Doors and Openings**

- Doors: (1) 3'-0" x 7'-0" 16 gauge steel door with 14 gauge steel frame  
(1) 7'-0" x 7'-0" Steel manual rollup door
- Locks: Lockset with changeable core
- Other Door Hardware: (1) NRP Stainless steel hinges, anti pick plate; door holder, hydraulic door closure, weather strip, aluminum threshold; door sweep
- Door Hood: (1) Door drip cap – 2 1/2" wide
- Openings: Floor and wall block-outs to be determined by customer, but cannot exceed the structure's design limitations

**E. Power**

- Power Service: Not Supplied (will be connected to existing building service)
- Disconnect Switch: (1) SqD 100A 1Ø 120/240V Exterior Disconnect Switch
- Generator: None Requested
- Automatic Transfer Switch: None Requested
- Generator Receptacle: None Requested
- Manual Transfer Switch: None Requested
- Main Distribution Panel: (1) SqD 100A 1Ø 120/240V, 24 space
- DC Distribution Panel: None Requested
- Sub Distribution Panel: None Requested
- Surge Suppression: None Requested
- Convenience Receptacles: (10) 20A, 125V
- Exterior GFI Receptacle: (1) 20A, 125V
- UPS / DC Power: None Requested
- Other: None Requested

**F. Environmental System**

- HVAC: (1) 4 Ton 1Ø HVAC Units with 5kw heater and economizer
- Controls: (1) 7-day Programmable Thermostat
- Heater: None Requested
- Vents: None Requested

**G. Alarms** **None Requested****H. Lighting**

- Interior: (12) 4ft.- 2 Lamp (32W each) fluorescent light fixtures with acrylic lens covers
- DC Lights: None Requested
- Exterior: (1) 100W Incandescent Exterior light with motion sensor and photocell
- Emergency: (1) Emergency fixture with dual flood lights
- Switches: (4) 20A light switches
- Timer: None Requested

**I. Cable Ladder** **None Requested****J. Grounding** **None Requested****K. Bathroom and Office Items**

- Toilet: ADA compliant Vitreous China Toilet package (4TMG8,4TMH1,4TMH8)
- Sink: ADA compliant Vitreous China wall hung sink (10J133)
- Mirror: 18" x 30" (6MX Y7)
- Wall Light: Dual bulb 60W downlight wall fixture (4UZH3)
- Bathroom Accessories: SS Grab bar, toilet tissue dispenser
- Laboratory Sink: SS Single Bowl – 25"W (13G621)
- Laboratory Faucet: Gooseneck single supply (5UTT4)
- Cabinets: (1) 35"H x 36"W x 24"D White Laminated Sink Base Cabinet  
(5) 35"H x 36"W x 24"D White Laminated Door & Drawer Base Cabinet  
(5) 30"H x 36"W x 12"D White Laminated Double Door Wall Cabinet



**L. Additional Items**

- Fire Extinguisher: (2) 10 LB. ABC Fire extinguisher
- Chemical Station: None Requested
- Tie Down Kit; Tie down kit with anchors.
- Fire Suppression: None Requested
- First Aid Kit: None Requested
- Eye Wash Station: None Requested
- Battery Safety Kit: None Requested
- Other: (1) Shelter Manual

**\*\*Note:** Plumbing and Electrical connections to existing utilities will be made on site by others

**II. Delivery / Freight**

- A. Precast structure price is quoted FOB plant
- B. The delivery price quoted is to the indicated location only and is only good for 60 days from the date of quote.
- C. Delivery is to occur on weekdays during normal daylight working hours.
- D. Proper site conditions, including clear access roads and a reasonably level surface, so that vehicles, trucks, and cranes can safely maneuver under their own power.
  - i. All roads, crossing, and load bearing surfaces to be able to accommodate a vehicle with a gross weight of 160,000 pounds.
  - ii. Required turning radius for a 70-foot tractor-trailer and minimum 150-ton crane.
  - iii. No overhead power lines, obstructions or overhanging trees that could block the maneuverability of equipment.
- E. Routing: If for any reason the original directions are changed, Oldcastle reserves the right to revise the charges for additional mileage and or additional permit fees.
- F. Fuel Surcharges: Oldcastle reserves the right to adjust freight charges in the event a fuel surcharge is imposed after the original quote date.

**III. Crane Service**

- A. All crane charges will be invoiced at cost plus 25%. The pricing for crane service is only an estimate. It is based on product weight and the proper sizing of the crane assuming the crane can get within the normal working radius of the "center point."

**IV. Field Setting Service**

- A. By others, Oldcastle can provide this service for an additional fee.

**V. Services**

- A. The following items are **excluded** and need to be provided by others.
  - i. Overall project management and on-site supervision
  - ii. Real estate services
  - iii. Site design and permitting and obtaining building codes
  - iv. Site work, fencing and landscaping
  - v. On-site soils investigation and foundations
  - vi. On-site electrical and mechanical
    - a. Utility transformer (confirmation of phase and type of electrical service), transformer pad / pole, right of way work, boring / street excavation and duct bank work, meter base installation and all final electrical connections
    - b. External grounding systems
    - c. Sewer and water work, if needed
  - vii. Electronic equipment integration
  - viii. On-going repair and maintenance and upgrades
- B. If needed, Oldcastle can provide some or all of these services as part of a turn-key installation.



## TERMS AND CONDITIONS

### Approved Drawings

1. **Preliminary Drawings:** Preliminary drawings will be furnished within two weeks from receipt of an acceptable executed copy of this quotation contract and a Purchase Order
2. **Customer Approved Drawings:** Customer must sign and return approved drawings.
3. **State Approved Drawings/Product Lead Times:** Oldcastle will submit for state approvals immediately after receipt of Customer Approved Drawings, as required. Please note that Oldcastle has no control over time lines for state approvals. In the past 12 months, the average time for state approvals has been 4 weeks. The product delivery date will be dependent on current production demands after State approval and will be estimated at time of receipt of Purchase Order.

### Change Orders

1. **Change Orders:** Any change after Customer Approved Drawings will be considered a change order and will jeopardize the delivery date of the structure and be subject to additional charges, including:
  - a. **Additional Engineering / CAD Work:** To be charged at \$65.00 per hour.
  - b. **Additional Project Management Time:** To be charged at \$85.00 per hour.

### Conditions of Sale

1. This proposal is offered for acceptance and shall be valid for sixty (60) days from the date of quote.
2. Oldcastle will review customer's credit and reserves the right to require special payment terms or reject Purchase Orders due to poor credit history.
3. Executed orders are not subject to cancellation by buyer except by written agreement with the seller.
4. The information contained herein is proprietary and strictly confidential.
5. This Scope of Work and Pricing supersedes all prior proffers, both written and verbal.

### Inspection and Acceptance

1. All precast structures must be inspected and signed for by the customer at delivery for visible signs of damage to the structure and/or items inside the structure.
2. All applicable state and local inspections of the precast structure and/or approvals by third parties must take place at delivery. Otherwise, the structure will be considered to be acceptable at delivery.
3. All service work must be inspected and accepted immediately upon completion.

### Warranty

1. Oldcastle provides a limited warranty (available on request) which can be summarized as follows:
  - a. Ten (10) year structural precast concrete limited warranty
  - b. One (1) year limited warranty for quality and workmanship of any services performed by Oldcastle
  - c. One (1) year limited warranty for equipment manufactured and/or installed by Oldcastle
  - d. Warranties on equipment (HVAC, electrical and lighting devices, etc.) not manufactured by Oldcastle will be passed through Oldcastle from the manufacturer to the customer
2. All other warranties, express or implied, with respect to the shelter, including without limitation, warranties of merchantability and fitness or suitability for a particular purpose are hereby disclaimed.

### Payment

1. Invoices will be submitted at the time the precast structure ships. Payment is due within 30 days. All sums not paid when due shall be subject to a 1.5% per month interest charge on past due balances.
2. If the precast structure is completed on the agreed to ship date and the buyer cannot receive it for any reason, the customer may be invoiced for the structure and payment will be due in 30 days.
3. If the structure still has not shipped 30 days after the scheduled ship date, storage charges of \$10.00 per day per section will be assessed. Additional maintenance charges may also be incurred at time of delivery.
4. If payment is not made on a timely basis, Oldcastle reserves a security interest in the precast structure as well as the right to take repossession and title to the structure if payment is not forthcoming.
5. Payment due Oldcastle shall not be dependent upon payment from any other party except where it can be shown that funds were withheld due to the workmanship of Oldcastle.
6. No retainage shall be deducted from payment.
7. Any applicable Federal, State or Local Taxes are not included.

Based on the attached Scope of Work and subject to the Terms and Conditions, our pricing is as follows:

QUANTITY	PRODUCT / SERVICE DESCRIPTION	UNIT PRICE	EXT. PRICE
1	RCS1234 Precast Equipment Shelter	\$55,145	\$ 55,145
1	Wet Stamped Engineering Drawings(Qty of up to three with each shelter)	No Charge	
	Additional Wet Stamped Drawings (Qty three or less)	\$350 Each	
1	Freight charges to jobsite in West Palm Beach, FL	\$5,601	\$ 5,601
	<b>TOTAL</b>		<b>\$ 60,746</b>

QUANTITY	OPTIONAL PRODUCTS/SERVICES	UNIT PRICE	EXT. PRICE
1	Crane and Set Fee	\$14,314	\$ 14,314
	<b>TOTAL</b>		

#### Clarifications

- **Taxes:** Any applicable Federal, State or Local Taxes are not included.
- **Transportation Pricing:** Based on fluctuating fuel costs, Oldcastle reserves the right to amend the quoted freight pricing. In the event of fuel cost escalation, we reserve the right to re-quote freight pricing based on current fuel cost at time of shipment.

*To accept this proposal, Please initial and sign this quotation and fax back with your Purchase Order and a sketched floor plan to Oldcastle Precast Communications.*

Accepted By: \_\_\_\_\_

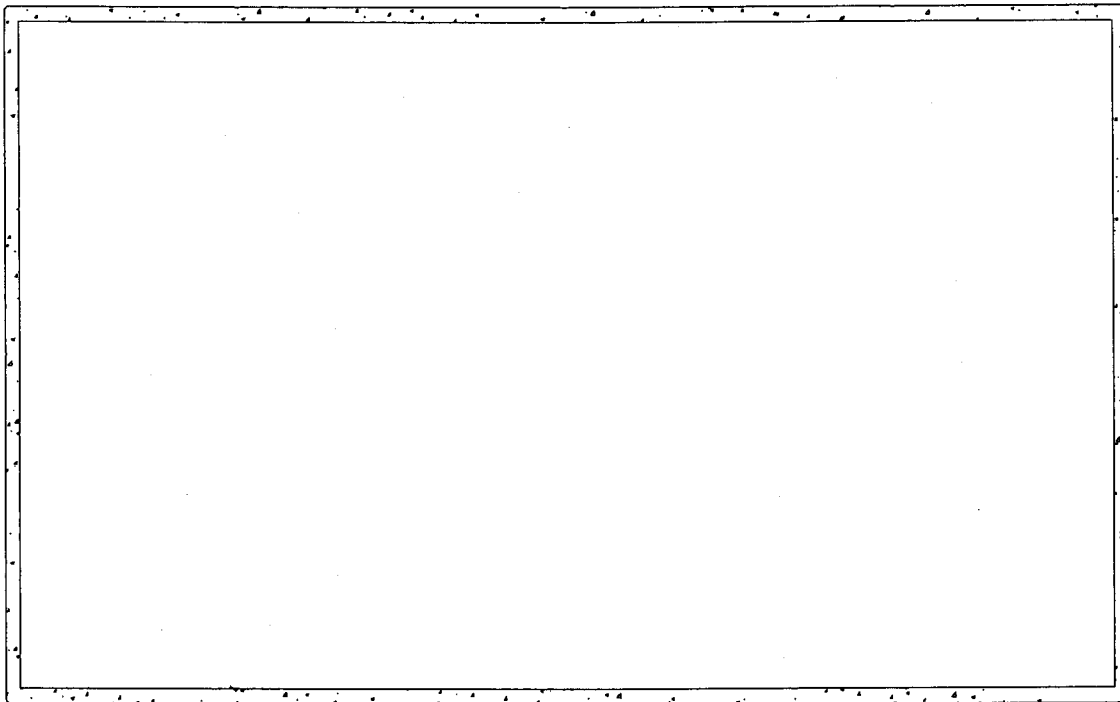
Date: \_\_\_\_\_

## FLOOR PLAN LAYOUT

Using the plan view diagram below, sketch out the location of the following items:

- Power entry
- Doors
- HVAC's
- Block-outs
- Major electrical / power equipment
- Lights
- Receptacles

Floor Plan



COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS	
				UP	TOTAL	UP	TOTAL	LABOR UNIT	MH	LABOR RATE	TOTAL	UP	TOTAL	UP	TOTAL	UP	TOTAL
	Central Regional R.W.F.																
	PROJECT TOTALS				\$7,097		\$149,929		1620		\$0		\$3,750		\$22,150		\$182,926
																	\$182,926
	Mechanical Piping				\$7,097		\$149,929		1,520		\$0		\$3,750		\$22,150		\$182,926
																	\$182,926
	MATERIALS / LABOR TAKEOFF SHY	LS	1		\$0		\$140,779		1028	0.00	\$0		\$0		\$0		\$140,779
	EMO START-UP & TRAINING	EA	3		\$0		\$0		0	0.00	\$0		\$3,450		\$0		\$3,450
	PIPE DISINFECT, TEST	LF	520	0.5	\$260		\$0		64	0.00	\$0		\$0		\$0		\$260
	TIE-INS	EA	6	75.0	\$450		\$0		66	0.00	\$0		\$0	125	\$750		\$1,200
	EX PIPE DEMOLITION	LF	40		\$0		\$0		32	0.00	\$0		\$0		\$0		\$0
	PIPE BEDDING 57 STONE / SAND	TON	60	22.6	\$1,125		\$0		0	0.00	\$0		\$0		\$0		\$1,125
	DEWATERING GRAVEL	TON	18	22.2	\$399		\$0		0	0.00	\$0		\$0		\$0		\$399
	BACKFLOW CERTIFY	EA	1		\$0		\$0		0	0.00	\$0		\$300		\$0		\$300
	POTHOLE UNLOAD PIPE	LS	1		\$0		\$0		80	0.00	\$0		\$0		\$0		\$0
					\$0		\$0			0.00	\$0		\$0		\$0		\$0
	EXCAVATOR	MOS	2.0		\$0		\$0		160	0.00	\$0		\$0	4800	\$9,600		\$9,600
	VIB ROLLER	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	WALK BEHIND	MOS	2.0		\$0		\$0			0.00	\$0		\$0	1200	\$2,400		\$2,400
	LOADER 3YD	MOS	2.0		\$0		\$0		160	0.00	\$0		\$0	3800	\$7,600		\$7,600
	STAKE BODY	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	JOB PICK-UP	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	STORAGE TRAILER	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	TRENCH BOX	MOS	1.9		\$0		\$0			0.00	\$0		\$0		\$0		\$0
	DEWATERING OPEN PUMPING	MOS	1		\$0		\$0			0.00	\$0		\$0	1800	\$1,800		\$1,800
										0.00							
	FUEL, OIL, LUBE	LS	1	4430.0	\$4,430		\$0		0	0.00	\$0		\$0		\$0		\$4,430
	SALES TAX	PCT	0.005		\$433		\$9,151			0.00	\$0		\$0		\$0		\$9,584
	SMALL TOOLS & SUPPLIES	LS	1	0.0	\$0		\$0			0.00	\$0		\$0		\$0		\$0

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4" Strainer Drain													4" Strainer Backwash												
Strainer to Existing													Strainer to Existing												
15020	DUCTILE IRON PIPE:				\$0								15020	DUCTILE IRON PIPE:											
	DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00		DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00
	DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59								DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59						
	DI MJ C-110 45 BEND	4"	2	2.50	47.00	\$94								DI MJ C-110 45 BEND	4"	2	2.50	47.00	\$94						
	DI MJ C-110 60 WYE	8"	1	4.50	128.00	\$128								DI MJ C-110 60 WYE	8"	1	4.50	128.00	\$128						
	DI MJ SOLID SLEEVE	8"	1	3.00	84.00	\$84								DI MJ SOLID SLEEVE	8"	1	3.00	84.00	\$84						
	DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399								DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399						
	DI FLG 45 BEND	4"	1	1.80	100.00	\$100								DI FLG 45 BEND	4"	1	1.80	100.00	\$100						
	MEGALUG:					\$0								MEGALUG:					\$0						
	EBAA MEGA-LUG SERIES 1100 DIP	4"	8	0.40	28.00	\$145								EBAA MEGA-LUG SERIES 1100 DIP	4"	8	0.40	28.00	\$145						
15006	EBAA MEGA-LUG SERIES 1100 PVC	8"	4	0.80	44.00	\$178							15006	EBAA MEGA-LUG SERIES 1100 PVC	8"	4	0.80	44.00	\$178						
	NUTS,BOLTS,GASKETS:					\$0								NUTS,BOLTS,GASKETS:					\$0						
DWG:	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20							DWG:	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20						
	CJA G-1 / G-2					\$0								CJA G-1 / G-2					\$0						
NOTE:						\$0							NOTE:						\$0						
						\$0													\$0						
4" Strainer Drain													4" Strainer Backwash												
Strainer to Existing													Strainer to Existing												
15020	DUCTILE IRON PIPE:				\$0								15020	DUCTILE IRON PIPE:											
	DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00		DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00
	DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59								DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59						
	DI MJ C-110 45 BEND	4"	1	2.50	47.00	\$47								DI MJ C-110 45 BEND	4"	1	2.50	47.00	\$47						
	DI MJ C-110 60 WYE	12"	1	6.00	273.00	\$273								DI MJ C-110 60 WYE	12"	1	6.00	273.00	\$273						
	DI MJ SOLID SLEEVE	12"	1	4.00	222.00	\$222								DI MJ SOLID SLEEVE	12"	1	4.00	222.00	\$222						
	DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399								DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399						
	DI FLG 45 BEND	4"	1	1.80	100.00	\$100								DI FLG 45 BEND	4"	1	1.80	100.00	\$100						
	MEGALUG:					\$0								MEGALUG:					\$0						
	EBAA MEGA-LUG SERIES 1100 DIP	4"	7	0.40	28.00	\$203								EBAA MEGA-LUG SERIES 1100 DIP	4"	7	0.40	28.00	\$203						
15000	EBAA MEGA-LUG SERIES 1100 DIP	12"	4	1.00	97.00	\$308							15000	EBAA MEGA-LUG SERIES 1100 DIP	12"	4	1.00	97.00	\$308						
	PLUG VALVE:					\$0								PLUG VALVE:					\$0						
15006	CIMJ P.V. w / Z" NUT	4"	1	3.00	500.00	\$500							15006	CIMJ P.V. w / Z" NUT	4"	1	3.00	500.00	\$500						
	NUTS,BOLTS,GASKETS:					\$0								NUTS,BOLTS,GASKETS:					\$0						
15019	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20							15019	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20						
	SPECIALTIES:					\$0								SPECIALTIES:					\$0						
DWG:	CI ADJUSTABLE VALVE BOX	EA	1	1.50	113.00	\$113							DWG:	CI ADJUSTABLE VALVE BOX	EA	1	1.50	113.00	\$113						
	STL VAL NUT EXTENSION	EA	1	0.80	54.00	\$54								STL VAL NUT EXTENSION	EA	1	0.80	54.00	\$54						
NOTE:	BRONZE VALVE ID DISK	EA	1	0.35	16.00	\$16							NOTE:	BRONZE VALVE ID DISK	EA	1	0.35	16.00	\$16						
						\$0													\$0						
4" Strainer Drain													4" Strainer Backwash												
Strainer to Existing													Strainer to Existing												
15020	DUCTILE IRON PIPE:				\$0								15020	DUCTILE IRON PIPE:											
	DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00		DI RJ CL 350 CEMENT LINED PIPE	4"	40	0.25	21.00	\$840	4	40	6.00	6.00	12.00	12.00
	DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59								DI RESTRAIN JOINT ADDER	4"	1	0.10	59.00	\$59						
	DI MJ C-110 45 BEND	4"	1	2.50	47.00	\$47								DI MJ C-110 45 BEND	4"	1	2.50	47.00	\$47						
	DI MJ C-110 60 WYE	12"	1	6.00	273.00	\$273								DI MJ C-110 60 WYE	12"	1	6.00	273.00	\$273						
	DI MJ SOLID SLEEVE	12"	1	4.00	222.00	\$222								DI MJ SOLID SLEEVE	12"	1	4.00	222.00	\$222						
	DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399								DI FLG x MJ PE SPL 12"-0" LG (discrete)	4"	1	1.80	399.00	\$399						
	DI FLG 45 BEND	4"	1	1.80	100.00	\$100								DI FLG 45 BEND	4"	1	1.80	100.00	\$100						
	MEGALUG:					\$0								MEGALUG:					\$0						
	EBAA MEGA-LUG SERIES 1100 DIP	4"	7	0.40	28.00	\$203								EBAA MEGA-LUG SERIES 1100 DIP	4"	7	0.40	28.00	\$203						
15000	EBAA MEGA-LUG SERIES 1100 DIP	12"	4	1.00	97.00	\$308							15000	EBAA MEGA-LUG SERIES 1100 DIP	12"	4	1.00	97.00	\$308						
	PLUG VALVE:					\$0								PLUG VALVE:					\$0						
15006	CIMJ P.V. w / Z" NUT	4"	1	3.00	500.00	\$500							15006	CIMJ P.V. w / Z" NUT	4"	1	3.00	500.00	\$500						
	NUTS,BOLTS,GASKETS:					\$0								NUTS,BOLTS,GASKETS:					\$0						
15019	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20							15019	FAS HDG CS / GR-A w / TORUSEAL GSKT	4"	2	0.00	10.00	\$20						
	SPECIALTIES:					\$0								SPECIALTIES:					\$0						
DWG:	CI ADJUSTABLE VALVE BOX	EA	1	1.50	113.00	\$113							DWG:	CI ADJUSTABLE VALVE BOX	EA	1	1.50	113.00	\$113						
	STL VAL NUT EXTENSION	EA	1	0.80	54.00	\$54								STL VAL NUT EXTENSION	EA	1	0.80	54.00	\$54						
NOTE:	BRONZE VALVE ID DISK	EA	1	0.35	16.00	\$16							NOTE:	BRONZE VALVE ID DISK	EA	1	0.35	16.00	\$16						
						\$0													\$0						

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Existing Booster Pump & Strainer																			
Sewer Water System																			
16082	STAINLESS STEEL PIPE:																		
	SST 316 SCH 40S THD PIPE	1"	40	0.15	3.75	\$160													
16082	STAINLESS STEEL FITTING:																		
	SST 316 THD CL 150 90 BEND	1"	8	0.72	7.43	\$59													
	SST 316 THD CL 150 TEE	1"	2	1.18	13.00	\$26													
	SST 316 THD CL 150 UNION	1"	2	1.18	21.12	\$42													
	SST 316 SCH 40S THD MISO NIPPLE	1"	12	0.25	8.00	\$72													
	SST 316 THD CL 150 RED BUSHING	1"	2	0.72	9.00	\$18													
16087	PVC PIPE:																		
	PVC SCH 80 SW PIPE	1"	40	0.12	0.54	\$22													
16087	PVC FITTING:																		
	PVC SCH 80 SxS 90 BEND	1"	8	0.22	2.32	\$19													
	PVC SCH 80 SxS COUPLING	1"	2	0.22	2.83	\$6													
	PVC SCH 80 MALE / FEMALE ADAPTOR	1"	1	0.29	4.54	\$5													
16104	BALL VALVE:																		
	SST 316 THD CL 150 B.V. w / LEVER	1"	1	0.79	38.48	\$38													
16110	CHECK VALVE:																		
	BRONZE THD SWING TYPE C.V.	1"	1	0.79	120.00	\$120													
16119	CONTROL VALVE:																		
	SST 316 THD SOLENOID VLV (open close)	1"	1	0.79	\$75.00	\$375													
	SST / BRONZE 316 THD NEEDLE VALVE	1"	1	0.79	139.00	\$139													
	SST / BRONZE 316 PRESS REG VALVE	1"	1	0.79	105.00	\$105													
16002	PIPE SUPPORTS:																		
	SST 316 UNISTRUT SERIES P-1000 x 10'	EA	1	8.00	88.00	\$88													
	SST 316 UNISTRUT P-1045 Z FITTING	EA	8	0.06	8.25	\$66													
	SST 316 POST BASE	EA	2	0.05	26.00	\$112													
	SST 316 UNISTRUT PIPE CLAMP P-2024	1"	6	0.05	4.75	\$38													
	SST 316 UNISTRUT SPRING NUT ASSY	3/8"	24	0.00	1.00	\$24													
	SST 316 OFFSET PIPE CLAMPS	1"	2	0.36	42.00	\$84													
16002	NUTS,BOLTS,GASKETS:																		
	SST 316 MISC CHEM WEDGE ANCHORS	EA	24	0.10	4.00	\$96													
16016	SPECIALTIES:																		
	SST/PVC ROTOMETER ASSEMBLY	EA	1	1.75	225.00	\$225													
	SST PRESSURE GAUGE ASSEMBLY	EA	1	1.75	325.00	\$325													
	FLOW SWITCH ASSEMBLY	EA	1	1.75	495.00	\$495													
DWG:	CJA G-1																		
NOTE:																			
Existing Reuse Pumps																			
Add Motorized Operator Ex Valve																			
16126	VALVE OPERATORS:																		
	EMO (open close w / limit switch)	16"	1	18.00	12143.00	\$12,143													
	EMO ADAPTOR PLATES / KITS	EA	1	8.40	1715.00	\$1,715													
DWG:	CJA G-1																		
NOTE:	START UP w / CARD SUM																		



New Building																													
Potable Water																													
15067	PVC 5M DIA PIPE					\$0																							
	PVC SCH 80 SW PIPE	1"	20	0.12	0.85	\$13	2	80	10.00	10.00	12.00	8.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	PVC SCH 80 SW PIPE	2"	80	0.15	1.50	\$93																							
15067	PVC 5M DIA FITTING:					\$0																							
	PVC SCH 80 6x6 90 BEND	1"	2	0.19	1.13	\$2																							
	PVC SCH 80 6x6 45 BEND	1"	2	0.19	2.13	\$4																							
15067	PVC SCH 80 5x5 TEE	1"	1	0.25	3.33	\$3																							
	PVC SCH 80 5x5 COUPLING	1"	1	0.19	2.76	\$3																							
	PVC SCH 80 MALE / FEMALE ADAPTOR	1"	2	0.25	2.82	\$5																							
15067	PVC SCH 80 5x5 MISC REDUCER	1"	0	0.19	0.66	\$0																							
	PVC SCH 80 5x5 UNION	1"	0	0.25	4.53	\$0																							
	PVC SCH 80 5x5 90 BEND	2"	6	0.48	4.01	\$24																							
15067	PVC SCH 80 5x5 45 BEND	2"	2	0.48	9.46	\$19																							
	PVC SCH 80 5x5 TEE	2"	1	0.84	14.27	\$14																							
	PVC SCH 80 5x5 COUPLING	2"	2	0.48	4.98	\$10																							
15067	PVC SCH 80 5x5 UNION	2"	0	0.84	18.79	\$0																							
	PVC SCH 80 MALE / FEMALE ADAPTOR	2"	1	0.84	11.02	\$11																							
	PVC SCH 80 5x5 MISC REDUCER	2"	2	0.48	8.72	\$11																							
15194	BALL VALVES:					\$0																							
	PVC UNION TYPE SW B.V. VITON	1"	1	0.25	49.00	\$49																							
	PVC UNION TYPE SW B.V. VITON	2"	1	0.54	128.00	\$128																							
16141	BACKFLOW PREVENTOR:					\$0																							
	RPZ BACKFLOW ASSEMBLY	2"	1	8.00	485.00	\$485																							
	PIPE SUPPORTS:					\$0																							
15092	SST318 ADJUSTABLE PIPE SUPPORT	2"	2	3.45	165.00	\$330																							
	SST UNISTRUT SPRING NUT ASSY	3/8"	88	0.00	2.00	\$136																							
	SST 318 UNISTRUT SERIES P-1000 x 10'	EA	1	8.00	85.00	\$95																							
15092	SST 318 UNISTRUT P-1048 Z FITTING	EA	12	0.05	8.00	\$96																							
	SST 318 UNISTRUT PIPE CLAMP P-2024	1"	5	0.05	4.75	\$24																							
	SST 318 UNISTRUT PIPE CLAMP P-2024	2"	3	0.05	8.00	\$24																							
15098	NUTS,BOLTS, WASHERS:					\$0																							
	SST MISC WEDGE,CHEMICAL ANCHORS	EA	12	0.10	8.00	\$96																							
						\$0																							
DWG:	CJA G-2					\$0																							
						\$0																							
						\$0																							
NOTE:						\$0																							
						\$0																							
						\$0																							

Control Region D.B (CSA-6)A2.xls

Page 6

Energy Efficient Electric, Inc.  
1600 Mercer Ave. Unit 6  
West Palm Beach, FL. 33401  
Phone (561) 655-7211 Fax (561) 655-9661  
Mobile (561) 722-1381  
E-Mail Address: rene@energyeff.com  
**State License #EC 0001096**

September 4, 2013

**Electrical Scope of Work  
Central Regional Reclaimed Water Facility**

We are pleased to provide your firm with our scope and proposal for the necessary electrical work on the above referenced project. Our scope and budget is based on the drawings G1 and G2 prepared by Calvin Giordano and Associates.

**Included:**

1. Furnish and install a 30 amp 480 volt SS NF disconnects for the strainer, and (2) motorized actuators furnished by others. Furnish and install breakers in the existing I-Line panelboard.
2. Furnish and install a 60 amp 480 volt SS NF disconnects for the new 30 HP pump furnished by others. Reuse existing VFD.
3. Furnish and install a 60 amp 480 volt SS NF disconnect, 50 amp breaker in the existing I-Line panel and 25 KVA transformer to feed the new prefab building with 100 amp 240 volt service next to the existing filters structure.
4. Furnish and install conduit and wire from the existing electrical room for the pump, strainer, motorized actuators, pressure transmitter and prefab building.
5. Furnish and install grounding and lightning protection for the prefab building.
6. Assist with startup for the strainer and pump with manufacture.
7. Furnish PIT and (2) I/O cards for the PLC.

**Excluded:**

1. Pumps, magmeter, solenoids, limit switches, MOV's, clay valve, pressure gauges, strainer and control panel.
2. Permit fees.
3. Temporary power for any office trailers.
4. PLC programming.
5. Scada programming.
6. Pneumatic impulse piping, test traps or shut-off valves.
7. Pipe taps or pipe saddles.

**Lump Sum**                      **\$90,000**

We appreciate the opportunity to quote your organization on this project. If you have any questions, please call me at the office.

Thank You Very Kindly,

*Rene Viau*

Vice President

Residential ----- Lighting Systems ----- Commercial ----- Industrial

C:\USERS\DANIEL.ALONSO\DOCUMENTS\CARDINAL CONTRACTORS\31289 PALM BEACH DESIGN BUILD\WA #4 CRW\FIT TO SUBMIT\QUOTES\ENERGY EFFICIENT QUOTE.DOC



Calvin, Giordano & Associates, Inc.  
EXCEPTIONAL SOLUTIONS  
560 Village Blvd., Suite 340, West Palm Beach, Florida 33409  
Phone: 561.684.6161 • Fax: 561.684.6360

ATTACHMENT E - WORK AUTHORIZATION  
SCHEDULE OF BID ITEMS

Certificate of Authorization No. 514		DATE August 30, 2013
Project Title	CGA PROJECT NO.	
CRRWF Improvements	11-4416.14	
WA Number	PBC WUD Project No.	
WA-4	13-009	

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #1	Data Collection and Survey			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	28	\$ 145.00	\$ 4,060.00
	Project Engineer (III)	18	\$ 125.00	\$ 2,250.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	4	\$ 95.00	\$ 380.00
	CADD Technician (Surveying)	12	\$ 95.00	\$ 1,140.00
	Senior Registered Surveyor	3	\$ 145.00	\$ 435.00
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	20	\$ 135.00	\$ 2,700.00
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	16	\$ 205.00	\$ 3,280.00
	Engineering Task Labor Subtotal	101.00		\$ 14,245.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	\$ 2,659.80	\$ 265.98	\$ 2,925.78
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 1,500.00	\$ 150.00	\$ 1,650.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 4,159.80	\$ 415.98	\$ 4,575.78
	Task #1 Total			\$ 18,820.78

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #2	60% Design Submittal			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	2	\$ 190.00	\$ 380.00
	Director, Engineering (V)	2	\$ 165.00	\$ 330.00
	Project Manager (IV)	82	\$ 145.00	\$ 11,890.00
	Project Engineer (III)	47	\$ 125.00	\$ 5,875.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	2	\$ 95.00	\$ 190.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	135.00		\$ 18,665.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	\$ 13,636.48	\$ 1,363.65	\$ 15,000.13
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 5,700.00	\$ 570.00	\$ 6,270.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 19,336.48	\$ 1,933.65	\$ 21,270.13
	Task #2 Total			\$ 39,935.13

Work Activity	Employee Classification	Hours	Hourly Rate	Total
<b>Task #3</b>	<b>90% Design Submittal</b>			
	<b>Engineering Services</b>			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	6	\$ 190.00	\$ 1,140.00
	Director, Engineering (V)	2	\$ 165.00	\$ 330.00
	Project Manager (IV)	124	\$ 145.00	\$ 17,980.00
	Project Engineer (III)	59.5	\$ 125.00	\$ 7,437.50
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	2	\$ 95.00	\$ 190.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	<b>Engineering Task Labor Subtotal</b>	<b>193.50</b>		<b>\$ 27,077.50</b>
	<b>Subconsultants (10% Markup)</b>	<b>Fee</b>	<b>Markup (10%)</b>	
	EDA (Electrical) SBE	\$ 1,870.72	\$ 187.07	\$ 2,057.79
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 2,900.00	\$ 290.00	\$ 3,190.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	<b>Engineering Task Subconsultant Subtotal</b>	<b>\$ 4,770.72</b>	<b>\$ 477.07</b>	<b>\$ 5,247.79</b>
	<b>Task #3 Total</b>			<b>\$ 32,325.29</b>

Work Activity	Employee Classification	Hours	Hourly Rate	Total
<b>Task #4</b>	<b>100% Design Submittal</b>			
	<b>Engineering Services</b>			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	8	\$ 190.00	\$ 1,520.00
	Director, Engineering (V)	4	\$ 165.00	\$ 660.00
	Project Manager (IV)	78	\$ 145.00	\$ 11,310.00
	Project Engineer (III)	27	\$ 125.00	\$ 3,375.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	4	\$ 95.00	\$ 380.00
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	<b>Engineering Task Labor Subtotal</b>	<b>121.00</b>		<b>\$ 17,245.00</b>
	<b>Subconsultants (10% Markup)</b>	<b>Fee</b>	<b>Markup (10%)</b>	
	EDA (Electrical) SBE	\$ 3,374.80	\$ 337.48	\$ 3,712.28
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 1,400.00	\$ 140.00	\$ 1,540.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Cardinal (Contractor)	\$ -	\$ -	\$ -
	<b>Engineering Task Subconsultant Subtotal</b>	<b>\$ 4,774.80</b>	<b>\$ 477.48</b>	<b>\$ 5,252.28</b>
	<b>Task #4 Total</b>			<b>\$ 22,497.28</b>

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #5	Pre-Construction Meeting and Shop Drawing Review			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (IV)	0	\$ 165.00	\$ -
	Project Manager (IV)	36	\$ 145.00	\$ 5,220.00
	Project Engineer (III)	4	\$ 125.00	\$ 500.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	40.00		\$ 5,720.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	\$ 5,931.64	\$ 593.16	\$ 6,524.80
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 900.00	\$ 90.00	\$ 990.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 6,831.64	\$ 683.16	\$ 7,514.80
	Engineering Task Total			\$ 13,234.80
	Construction Services			
	Cardinal Construction			
	Guaranteed Maximum Price (Excluding subcontractors below)	\$ -	0%	\$ -
	Subcontractors (10% Markup)			
	Electrical SBE	\$ -	\$ -	\$ -
	Instrumentation & Controls SBE	\$ -	\$ -	\$ -
	Sod SBE	\$ -	\$ -	\$ -
	Miscellaneous SBE	\$ -	\$ -	\$ -
	Subcontractor Subtotal	\$ -	\$ -	\$ -
	Construction Task Total	\$ -	\$ -	\$ -
	Task #6 Total			\$ 13,234.80

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #6	Construction Services			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	108	\$ 145.00	\$ 15,660.00
	Project Engineer (III)	0	\$ 125.00	\$ -
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	12	\$ 95.00	\$ 1,140.00
	Senior Registered Surveyor	3	\$ 145.00	\$ 435.00
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	20	\$ 135.00	\$ 2,700.00
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	143.00	\$	19,935.00
	Subconsultants (10% Markup)	Fee	Markup (10%)	Total
	EDA (Electrical) SBE	\$ 5,319.60	\$ 531.96	\$ 5,851.56
	RADISE (Geotech) SBE	\$ -	\$ -	\$ -
	AGA (Structural) SBE	\$ 3,700.00	\$ 370.00	\$ 4,070.00
	Colome' (Architectural) SBE	\$ -	\$ -	\$ -
	Engineering Task Subconsultant Subtotal	\$ 9,019.60	\$ 901.96	\$ 9,921.56
	Engineering Task Total			\$ 29,856.56
	Construction Services			
	Cardinal Construction	Fee	Markup	Total
	Guaranteed Maximum Price (Excluding subcontractors below)		0%	\$0.00
	Subcontractors (10% Markup)	Fee	Markup (10%)	Total
	Electrical SBE	\$ -	\$ -	\$0.00
	Instrumentation & Controls SBE	\$ -	\$ -	\$0.00
	Sod SBE	\$ -	\$ -	\$0.00
	Miscellaneous SBE	\$ -	\$ -	\$0.00
	Subcontractor Subtotal	\$ -	\$ -	\$0.00
	Construction Task Total	\$ -	\$ -	\$ -
	Task #7 Total			\$ 29,856.56

Work Activity	Employee Classification	Hours	Hourly Rate	Total
Task #7	Project Close-Out			
	Engineering Services			
	Calvin, Giordano & Associates			
	Associate, Engineering (VI)	0	\$ 190.00	\$ -
	Director, Engineering (V)	0	\$ 165.00	\$ -
	Project Manager (IV)	22	\$ 145.00	\$ 3,190.00
	Project Engineer (III)	32	\$ 125.00	\$ 4,000.00
	Engineer (II)	0	\$ 105.00	\$ -
	CADD Technician (Engineering)	0	\$ 95.00	\$ -
	CADD Technician (Surveying)	0	\$ 95.00	\$ -
	Senior Registered Surveyor	0	\$ 145.00	\$ -
	Registered Surveyor	0	\$ 130.00	\$ -
	Survey Crew	0	\$ 135.00	\$ -
	Soft Dig (per hole)	0	\$ 480.00	\$ -
	Utility Locates (per hour)	0	\$ 205.00	\$ -
	Engineering Task Labor Subtotal	54.00		\$ 7,190.00
	Subconsultants (10% Markup)			
	EDA (Electrical) SBE	\$ 949.52	\$ 94.95	\$ 1,044.47
	RADISE (Geotech) SBE	-	-	-
	AGA (Structural) SBE	\$ 900.00	\$ 90.00	\$ 990.00
	Colome' (Architectural) SBE	-	-	-
	Engineering Task Subconsultant Subtotal	\$ 1,849.52	\$ 184.95	\$ 2,034.47
	Engineering Task Total			\$ 9,224.47
	Construction Services			
	Cardinal Construction			
	Guaranteed Maximum Price (Excluding subcontractors below)		0%	\$0.00
	Subcontractors (10% Markup)			
	Electrical SBE	\$ -	\$ -	\$0.00
	Instrumentation & Controls SBE	\$ -	\$ -	\$0.00
	Sod SBE	\$ -	\$ -	\$0.00
	Miscellaneous SBE	\$ -	\$ -	\$0.00
	Subcontractor Subtotal	\$ -	\$ -	\$0.00
	Construction Task Total	\$ -	\$ -	\$ -
	Task #8 Total			\$ 9,224.47



Work Activity	Employee Classification	Hours	Hourly Rate	Total
Totals				
Engineering Services				
Calvin, Giordano & Associates				
Associate, Engineering (VI)		16	\$ 190.00	\$ 3,040.00
Director, Engineering (V)		8	\$ 165.00	\$ 1,320.00
Project Manager (IV)		478	\$ 145.00	\$ 69,310.00
Project Engineer (III)		187.5	\$ 125.00	\$ 23,437.50
Engineer (II)		0	\$ 105.00	\$ -
CADD Technician (Engineering)		12	\$ 95.00	\$ 1,140.00
CADD Technician (Surveying)		24	\$ 95.00	\$ 2,280.00
Senior Registered Surveyor		6	\$ 145.00	\$ 870.00
Registered Surveyor		0	\$ 130.00	\$ -
Survey Crew		40	\$ 135.00	\$ 5,400.00
Soft Dig (per hole)		0	\$ 480.00	\$ -
Utility Locates (per hour)		16	\$ 205.00	\$ 3,280.00
Engineering Project Labor Subtotal		787.50	\$	110,077.50
Subconsultants (10% Markup)				
		Fee	Markup (10%)	Total
EDA (Electrical)	SBE	\$ 33,742.56	\$ 3,374.26	\$ 37,116.82
RADISE (Geotech)	SBE	\$ -	\$ -	\$ -
AGA (Structural)	SBE	\$ 17,000.00	\$ 1,700.00	\$ 18,700.00
Colome! (Architectural)	SBE	\$ -	\$ -	\$ -
Engineering Project Subconsultant Subtotal		\$ 50,742.56	\$ 5,074.26	\$ 55,816.82
Engineering Task Total				\$ 165,894.32
Construction Services				
Cardinal Construction				
Guaranteed Maximum Price (Excluding subcontractors below)		Fee	Markup	Total
		\$ -	0%	\$ -
Subcontractors (10% Markup)				
		Fee	Markup (10%)	Total
Electrical	SBE	\$ -	\$ -	\$ -
Instrumentation & Controls	SBE	\$ -	\$ -	\$ -
Sod	SBE	\$ -	\$ -	\$ -
Miscellaneous	SBE	\$ -	\$ -	\$ -
Subcontractor Subtotal		\$ -	\$ -	\$ -
Construction Project Total		\$ -	\$ -	\$ -
Construction Total				\$ -
Engineering Total				\$ 165,894.32
Project Sub-Total				\$ 165,894.32
Allowance				
WA GRAND TOTAL				\$ 165,894.32

Vincent Capuozzi

From: Gary.Morgan2@Ferguson.com  
Sent: Thursday, November 07, 2013 9:32 AM  
To: Vincent Capuozzi  
Subject: PBC

Vince,

See the quote below with your changes and additions. I highlighted what changed or was added. Thanks!

Thank You,

Gary Morgan  
Sales - Ferguson Plant Division  
1950 NW 18th St | Pompano Beach, FL 33069  
Tel (954) 973-8100 | Cell (954) 707-1058  
Fax (954) 917-3134 | Gary.Morgan2@Ferguson.com



Price Quotation # B231678

FEI-POMPANO BEACH WW #125

1950 NW 18TH STREET  
POMPANO BEACH, FL 33069-1394

Phone : 954-973-8100  
Fax : 954-917-3134

Bid No.....: B231678	Cust Phone: 954-973-8100
Bid Date....: 08/25/13	Terms.....: NET 10TH PROX
Quoted By: GM	Ship To.....: **BID PLANT CONTRACTOR**
Customer.: **BID PLANT CONTRACTOR**	FOR BIDDING PURPOSES ONLY
FOR BIDDING PURPOSES ONLY	POMPANO BEACH, FL 33069
POMPANO BEACH, FL 33069	

Cust PO#..: PBC - DESIGN BUILD                      Job Name.: CRRWF

Item	Description	Quantity	Net Price	UM	Total
	DESIGN BUILD:				
	CENTRAL REGION RECLAIMED				
	WATER FACILITY IMPROVEMENT				

	PROJECT No. WUD 13-009				
	CARDINAL CONTRACTORS				
	6 MGD BOOSTER PUMP &				
	STRAINER				
	TIE TO EXIST REUSE W/BYPAS				
AFT350P16	16 CL350 CL DI FASTITE PIPE	40	73.000	FT	2920.00
AFGRGSKT16	16 FAST GRIP GSKT	1	502.000	EA	502.00
MJLSLA16	16X15 MJ C153 LONG SLV L/A	3	424.000	EA	1272.00
MJTLA16	16 MJ C153 TEE L/A	2	924.000	EA	1848.00
MJYLA16	16 MJ C153 WYE L/A	1	1577.000	EA	1577.00
MJ9LA16	16 MJ C153 90 BEND L/A	1	659.000	EA	659.00
FPP16X	16X8'0 FLGXPE CL BT DI SPL	3	1392.000	EA	4176.00
F916	16 DI 125# C110 FLG 90 BEND	3	899.000	EA	2697.00
FCR16X	16X8 DI 125# C110 FLG CONC RED	2	508.000	EA	1016.00
SP-FGP16K	16" X 2'0 FLG X GRV CL DIP	6	603.000	EA	3618.00
FFP16M	16X3'0 FLGXFLG CL BT DI SPL	2	1049.000	EA	2098.00
FT16	16 DI 125# C110 FLG TEE	1	1400.000	EA	1400.00
FFP16P	16X4'0 FLGXFLG CL BT DI SPL	2	1052.000	EA	2104.00
FFP16Y	16X9'0 FLGXFLG CL BT DI SPL	1	1665.000	EA	1665.00
FFP16U	16X6'0 FLGXFLG CL BT DI SPL	4	1290.000	EA	5160.00
PCR2016	20X16 DI 125# C110 FLG CONC RED	2	1007.000	EA	2014.00
FFP16K	16X2'0 FLGXFLG CL BT DI SPL	2	785.000	EA	1570.00
E1116DEC	16 MEGALUG EBAASEAL ACCY PKG F/DI	17	173.000	EA	2941.00
	HDG W/TORUSEAL				
SFASX	8 STD FLG ACC KIT	2	31.000	EA	62.00
SP-SFAS16	16 STD FLG ACC SET	26	116.000	EA	3016.00
SFAS20	20 STD FLG ACC KIT	2	174.000	EA	348.00
HGHF16	16 FLG BFV	2	2319.000	EA	4638.00
SP-16FLGBFVEMO	16" FLG BFV W/EMO	2	13900.000	EA	27800.00
SP-VLVSTARTUP	START UP & TRAINING FOR VLV	1	1715.000	EA	1715.00
SP-16SWGCHKSB	16" SURGEBUSTER FLG CHK VLV	2	18500.000	EA	37000.00
V48AK	2 SEWAGE AIR RELEASE VLV	1	405.000	EA	405.00

SP-1SSSTRAP	1" SS OFFSET PIPE SUPPORT	4	42.000	EA	168.00
SP-16SSSTP	16" SS PIPE STRAP	4	222.000	EA	888.00
VC160031PM0	16 CPL 31 W/ FS-M T37-77 31	3	522.000	EA	1566.00
D461SR	2PC SC CI VLV BX 19-22 REUSE	1	113.000	EA	113.00
PS41106	6 FT GATE VLV STEM EXT	1	54.000	EA	54.00
BVTM	3 BRS VLV ID TAG	1	16.000	EA	16.00
DS46NKP	2X4 SS S40 316 NIP	2	11.000	EA	22.00
DS46NGP	1X4 SS S40 316 NIP	21	6.000	EA	126.00
IS6CT9G	1 SS 316 150# THRD 90 ELL	4	5.000	EA	20.00
FNW200AK	2 SS 1000# THRD 2PC FP BV LL	1	152.000	EA	152.00
R202N189072	16X2 IP DBL SS STRAP-NYLON	1	184.000	EA	184.00
DS46NDM	1/2X3 SS S40 316 NIP	6	3.000	EA	18.00
IS6CT9D	1/2 SS 316 150# THRD 90 ELL	3	3.000	EA	9.00
FNW200AD	1/2 SS 1000# THRD 2PC FP BV LL	6	29.000	EA	174.00
WEA14060	4-1/2 PRES GA 0 - 60 PSI	3	425.000	EA	1275.00
	SUBTOTAL				119006.00
	DRAIN/FLUSH FILTER TO LS				
AFT350PU	6 CL350 CL DI FASTITE PIPE	260	21.000	FT	5460.00
E1606TDSS4	6 SPLT HRNS F/ C900 PVC/DI	11	106.000	EA	1166.00
FPPUX	6X8"0 FLGXPE CL BT DI SPL	1	385.000	EA	385.00
FFPUG	6X1"0 FLGXFLG CL BT DI SPL	1	183.000	EA	183.00
MJ9LAU	6 MJ C153 90 BEND L/A	2	93.000	EA	186.00
MJ4LAU	6 MJ C153 45 BEND L/A	4	76.000	EA	304.00
MJTLAU	6 MJ C153 TEE L/A	1	135.000	EA	135.00
MJSPU	6 MJ C153 SLD PLUG	1	50.000	EA	50.00
SSLDE6AP	6 DI WDG REST *ONELOK W/A	14	44.000	EA	616.00
IMJBGPU	6 MJ C153 BOLT GSKT PK L/ GLAND	1	17.000	EA	17.00
SFASU	6 STD FLG ACC KIT	3	24.000	EA	72.00
SP-SSSTRAPU	6" SS PIPE STRAP	2	70.000	EA	140.00
	SUBTOTAL				8714.00
	EXISTING REUSE PUMPS				
	ADD EMO'S TO VALVES				
SP-12EMO	EMO F/12" BFV	2	12143.000	EA	24286.00
	INCLUDES ADAPTORS/PLATES ETC				
SP-VLVSTARTUP	START UP & TRAINING FOR VLV	1	1715.000	EA	1715.00

	SUBTOTAL				26001.00
	MODIFY EXIST PIPING				
BF12	12 DI 125# C110 BLIND FLG	2	267.000	EA	534.00
FFP16U	16X6'0 FLGXFLG CL BT DI SPL	1	1350.000	EA	1350.00
SP-16TDCV	16" TILTED DISC CHK VLV	1	32176.000	EA	32176.00
	W/TOP MOUNTED DASHPOT & LIMIT SWTCH				
	ALTERNATE PBC APPROVED SURGEBUSTER				
	\$18,500/EA				
SFAS12	12 STD FLG ACC KIT	2	40.000	EA	80.00
SP-SFAS16	16 STD FLG ACC SET	3	116.000	EA	348.00
E2116	16 MEGAFLANGE FLG ADPT	1	916.000	EA	916.00
	SUBTOTAL				35404.00
	PRESSURE SUSTAINING VLV				
FFP12K	12X2'0 FLGXFLG CL BT DI SPL	1	512.000	EA	512.00
SP-BA730S12	12" PRV W/LIMIT SWITCH	1	17429.000	EA	17429.00
	GLOBES STYLE, DI BODY, 316SS SEAT				
	& STEM				
	ANTI-CAVITATION ADDER \$6300				
	LIMIT SWITCH ADDER \$800				
	FLOW METERING ADDER \$12000				
SFAS12	12 STD FLG ACC KIT	2	40.000	EA	80.00
E2112	12 MEGAFLANGE FLG ADPT	1	367.000	EA	367.00
	SUBTOTAL				18388.00
	NEW BUILDING - POT WATER				
P80BG	1 X 20 FT PVC S80 BE PIPE	20	86.000	C	17.20
P80BK	2 X 20 FT PVC S80 BE PIPE	60	183.000	C	109.80
P80S9G	1 PVC S80 SXS 90 ELL	2	3.000	EA	6.00
P80S4G	1 PVC S80 SXS 45 ELL	2	5.000	EA	10.00
P80STG	1 PVC S80 SXSXS TEE	1	4.000	EA	4.00
P80SCG	1 PVC S80 SXS COUP	1	3.000	EA	3.00
P80SFAG	1 PVC S80 SXF ADPT	2	4.000	EA	8.00
P80SBGD	1X1/2 PVC S80 SXS BUSH	1	2.000	EA	2.00

	4" STRAINER BACKWASH ---				
AFT350PP	4 CL350 CL DI FASTITE PIPE	40	21.000	FT	840.00
AFGRGSKTP	4 FAST GRIP GSKT	1	59.000	EA	59.00
MJ9LAP	4 MJ C153 90 BEND L/A	1	57.000	EA	57.00
MJ4LAP	4 MJ C153 45 BEND L/A	1	47.000	EA	47.00
MJTLA12P	12X4 MJ C153 TEE L/A	1	273.000	EA	273.00
MJLSLA12	12X12 MJ C153 LONG SLV L/A	1	222.000	EA	222.00
FPPP12	4X12"0 FLGXPE CL BT DI SPL	1	399.000	EA	399.00
F4P	4 DI 125# C110 FLG 45 BEND	1	100.000	EA	100.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	7	29.000	EA	203.00
E111200IAP	12 MEGALUG F/DI W/ IMJBGPP12	4	97.000	EA	388.00
SFASP	4 STD FLG ACC KIT	2	10.000	EA	20.00
D461SW	2PC SC CI VLV BX 18-24 WTR W/ W LID	1	113.000	EA	113.00
BVTM	3 BRS VLV ID TAG	1	16.000	EA	16.00
	6" SE FM ---				
AFGRGSKTU	6 FAST GRIP GSKT	1	84.000	EA	84.00
MJ9LAU	6 MJ C153 90 BEND L/A	1	93.000	EA	93.00
FFPUG	6X1"0 FLGXFLG CL BT DI SPL	1	164.000	EA	164.00
BFU	6 DI 125# C110 BLIND FLG	1	79.000	EA	79.00
	SAN SWR ---				
MJYLAUP	6X4 MJ C153 WYE L/A	1	126.000	EA	126.00
MJLSLAU	6X12 MJ C153 LONG SLV L/A	1	84.000	EA	84.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	1	29.000	EA	29.00
IMJBGPP	4 MJ C153 BOLT GSKT PK L/ GLAND	1	11.000	EA	11.00
IMJBGPU	6 MJ C153 BOLT GSKT PK L/ GLAND	1	14.000	EA	14.00
IMJTGP	4 SBR MJ IPS TRANS GSKT	1	4.000	EA	4.00

Subtotal: \$214344.00

Inbound Freight: \$0.00

Tax: \$12860.64

Order Total: \$227204.64

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at [http://wolselevna.com/terms\\_conditionsSale.html](http://wolselevna.com/terms_conditionsSale.html). Govt Buyers: All items quoted are open market unless noted otherwise.

P80SUG	1 PVC S80 SXS UNION EPDM	1	6.000	EA	6.00
P80S9K	2 PVC S80 SXS 90 ELL	6	4.000	EA	24.00
P80S4K	2 PVC S80 SXS 45 ELL	2	9.000	EA	18.00
P80STK	2 PVC S80 SXSXS TEE	1	14.000	EA	14.00
P80SCK	2 PVC S80 SXS COUP	2	5.000	EA	10.00
P80SUK	2 PVC S80 SXS UNION EPDM	1	18.000	EA	18.00
P80SMAK	2 PVC S80 SXM ADPT	1	11.000	EA	11.00
P80SBKG	2X1 PVC S80 SXS BUSH	2	6.000	EA	12.00
FNW340NVG	1 PVC VITON T/U BV	1	24.000	EA	24.00
FNW340NVK	2 PVC VITON T/U BV	1	64.000	EA	64.00
W975XL2K	LF 2 RED PRES BFP W/ BV	1	484.000	EA	484.00
	SUBTOTAL				845.00
	SANITARY SEWER				
SDR35PP14	4X14 SDR35 PVC GJ SWR PIPE	42	2.000	FT	84.00
SDR35PU14	6X14 SDR35 PVC GJ SWR PIPE	70	4.000	FT	280.00
MUL063304	4 PVC SWR GXGXG WYE	2	12.000	EA	24.00
MUL063504	4 PVC SWR GXG 45 BEND	2	7.000	EA	14.00
MUL040949	4 PVC SWR HUB FEM CO ADPT	2	4.000	EA	8.00
MUL040492	4 PVC SWR REC THRD CO PLUG	2	5.000	EA	10.00
MUL063306	6 PVC SWR GXGXG WYE	2	27.000	EA	54.00
MUL063506	6 PVC SWR GXG 45 BEND	2	14.000	EA	28.00
MUL040952	6 PVC SWR HUB FEM CO ADPT	2	16.000	EA	32.00
MUL040958	6 PVC SWR REC THRD CO PLUG	2	10.000	EA	20.00
	SUBTOTAL				554.00
	ADDER SYSTEMS:				
	4" STRAINER DRAIN				
AFT350PP	4 CL350 CL DI FASTITE PIPE	40	21.000	FT	840.00
AFGRGSKTP	4 FAST GRIP GSKT	1	59.000	EA	59.00
MJ4LAP	4 MJ C153 45 BEND L/A	2	47.000	EA	94.00
MJYLAUP	6X4 MJ C153 WYE L/A	1	126.000	EA	126.00
MJLSLAU	6X12 MJ C153 LONG SLV L/A	1	84.000	EA	84.00
FPPP12	4X12'0 FLGXPE CL BT DI SPL	1	399.000	EA	399.00
F4P	4 DI 125# C110 FLG 45 BEND	1	100.000	EA	100.00
E110400IAP	4 MEGALUG F/DI W/ IMJBGPP	5	29.000	EA	145.00
E110600IAP	6 MEGALUG F/DI W/ IMJBGPU	4	35.000	EA	140.00
SFASP	4 STD FLG ACC KIT	2	10.000	EA	20.00

Laurie Labanowitz

## QUOTE NOT USED

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**From:** Justin Randolph  
**Sent:** Monday, August 05, 2013 11:22 AM  
**To:** Laurie Labanowitz  
**Subject:** FW: Central Region DB Project

*Justin Randolph*



10405 Technology Terrace  
Lakewood Ranch, FL 34211  
941-377-8555 – Office  
941-377-8542 – Fax  
941-302-5567 – Cell

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**From:** Kirk Rouse [mailto:krouse@leesburgconcrete.com]  
**Sent:** Thursday, July 25, 2013 3:49 PM  
**To:** Justin Randolph  
**Cc:** 'Brian Stock'; Susan Kindle  
**Subject:** RE: Central Region DB Project

Ok, as described and with delivery/setting/tax/stamped drawings---budget \$78,000. This is an EasiSet building with patented post tensioned floor and roof. I excluded site preparation (granular sub base) and any on-site hook ups such as plumbing/electrical (building will have plumbing/electrical with panel and HVAC). I re-checked as number seemed high but with fit out that's accurate. Good luck and please let me know how we compare. Please verify competitors apples to apples with fit out/equipment/architectural etc....The post tensioning is a big deal as well. This building will be built in a state of the art NPCA certified plant with roof which is also important. My colleague Brian will be getting Anthony his budget price this afternoon. Thanks, I look forward to working with you.

Kirk Rouse  
Vice President



1335 Thomas Avenue  
Leesburg, FL 34748

Office: (352) 787-4177  
Cell: (352) 408-6066  
Fax: (352) 787-7935  
[www.leesburgconcrete.com](http://www.leesburgconcrete.com)

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**From:** Justin Randolph [mailto:jrandolph@cardinalco.com]  
**Sent:** Thursday, July 25, 2013 2:42 PM  
**To:** Kirk Rouse  
**Subject:** Central Region DB Project

8/5/2013



Per our discussion please figure a 12' x 34' precast building per the following description. The project is located at 2969 Northampton ST West Palm Beach, FL 33417

**QUOTE NOT USED**

1. Provide a new building (total approximately 400 SF) partitioned into 2 sections, an office area and a storage area. The building shall either be precast concrete or concrete masonry unit with stucco. The air conditioned office area shall include unisex ADA compliant bathroom, office area with laboratory sink with counter and cabinets. Storage area shall include rollup door for storing golf cart used to transport reclaimed water samples. Building shall be designed for building code with Florida Product approval. Connect to existing water supply and sanitary sewer. Connect electric to the existing electrical building.

Please quote all

1. Painting
2. HVAC (office area only)
3. Overhead door
4. Man Door
5. ADA Compliant Bathroom (wall partitions, toilet and accessories)
6. Partition Wall Between Storage and Office Space
7. Laboratory sink and counter with cabinets
8. Delivery and install
9. We should probably add (2) fire extinguishers

Thanks,

*Justin Randolph*



10405 Technology Terrace  
Lakewood Ranch, FL 34211  
941-377-8555 – Office  
941-377-8542 – Fax  
941-302-5567 – Cell

8/5/2013



QUOTE NOT USED

CONCRETE MODULAR SYSTEMS, INC.



## PROPOSAL

Cardinal Contractors, Inc.  
2201 Cantu Court Suite 202  
Sarasota, FL 34232

Date: August 5, 2013  
PH#: 1-941-377-8555  
Fax#: 1-941-377-8542

Attn: Justin Randolph

### RE: Central Region Water Treatment Operations Building Design Build

Concrete Modular Systems, Inc. is pleased to provide a quote to supply 1ea Precast Concrete Building for the above-mentioned job. The building will be designed to meet 2010 Florida Building Code and ACI-318-08 and ACI-318R-08. The scope of work per building will exclude anything not specifically listed below:

#### Design Loads:

Roof Live Load	65 PSF	Wind Load	150 MPH
Floor Live Load	125 PSF	Floor Dead Load	63 PSF

#### Operations Building

- 1ea DCA Approved Shop Drawings and Submittal Data
- 1ea 29'-0"x 15'-0"x 11'-10" Precast Concrete Building "Stucco or Standard Finish"
- 1ea Marvair 2 Ton Wall Mount A/C 241-A05 w/ "J" Package, Duct and T-Stat (Electronic)
- 1ea 3'x7' 18ga Imp. Door R-14.9 w/ Lockset, Dripcap, Window, Door Closer and Sweep
- 1ea 3'-0"x7'-0" Solid Core Wooden Door with Lockset and Hardware
- 1ea Roll-Lite Wind Loaded Overhead Coiling Door Model # 650 (6'-0"x8'-0")
- 2ea 26"H x 36"W Single Hung Sliding Window with Screen
- 1ea Interior 5/8" Gypsum R-14 on Walls, Gypsum Board R-21 on Ceiling "Knock-Down"
- 1ea Panel LP-10-1 200 Amp 1P 208/120v 42 Spaces NEMA 1 w/ Breakers
- 7ea 2'x2' Interior Lights Mounted in Drop Ceiling with Light Switch
- 9ea Bryant CR20BI SP 20A Receptacles and 8ea GFI
- 2ea RAB Mini Wall pack WP1SN70 100W with Photocell
- 2ea Surelite # Combo Pak Emergency Light and Exit Light
- 1lt Laboratory Design & Supply designed Casework and Desk Set-up
- 1ea Pro Line Carbon Dioxide Fire Extinguisher # PRO10CDM
- 1ea All Openings and Penetrations per Owners Recommendation Prior to Casting
- 1ea Ten Year Masonry Paint Color by Owner

#### Restroom Section

- 1ea Aerovent T100 Exhaust Fan with Wall Cap and Damper
- 1ea Int. 1/2" FRP Finish R-14 walls, 5/8" Gypsum R-21 Ceiling, Epoxy Floor
- 1ea Water Closets, Lavatories and 36" and 40" Grab Bars (External Hook-up By other)
- 1ea All required Steel Bath Accessories Satin Stainless Where Required

"Solutions Cast In Concrete"

P.O. Box 531573 \* St Petersburg, FL \* 33747-1573 \* 727-945-1864 \* FX 727-945-9756 \* 866-CMS-HUTS (267-4887)  
Central Region DB Operational Card.doc ■ WWW.CMSHuts.com

## QUOTE NOT USED

The total cost for the scope of work for Operations Building will be \$ 125,622.59, , FOB to the jobsite Off-loaded by Concrete Modular Systems Inc. personnel. Access: The contractor must provide level unobstructed area large enough for 75 ton crane and tractor-trailer to park adjacent to pad. Crane must be able to place outriggers within 3'-0" of edge of pad and truck and crane must be able to get side-by-side under their own power. Firm roadbed with turns that allow 65'+ low bed tractor-trailer, must be provided directly to site.

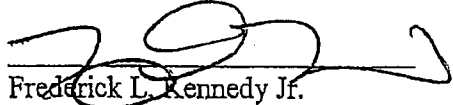
The price does not include Federal, State, or Local Taxes. The pricing of this proposal is valid 30 days from the date of proposal. Terms are NET 30 Days upon Completion, Delivered or Stored.

Concrete Modular System Inc, is a vendor not a sub contractor. Our payments terms are net 30 days with credit approval from Concrete Modular System Inc. Lead time varies from 6 to 8 weeks depending on production schedules and or material availability at time of order. Material cannot be ordered until submittals have been approved.

**Exclusions:** Any and All Grounding, Electrical and Plumbing Hook-ups "by others" \*Foundation, Vapor Barrier, and Foundation Grout By Others If Applicable

Building size or orientation may change due to fact that ADA layout may not be to current code any additional change may result in change order.

Proposal prepared and submitted by:

  
Frederick L. Kennedy Jr.  
General Manager

Proposal accepted by:

\_\_\_\_\_

"Solutions Cast In Concrete"

P.O. Box 531573 \* St Petersburg, FL \* 33747-1573 \* 727-945-1864 \* FX 727-945-9756 \* 866-CMS-HUTS (267-4887)  
Central Region DB Operational Card.doc ■ WWW.CMSHuts.com

# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Fl Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

NOT USED - REUSE EXISTING PUMP

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 1

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

Item:	25 HP Filter Booster Pump	Flow (US gpm)	Head (ft)	Eff. (%)	Power (hp)	Speed (RPM)
Model :	Peerless Vertical - 24HH	4164	18	85.4	22.7	585
		Liquid	Temp. (°F)	Sp. Gravity	Visc. (cSt)	Dia. (Inch)
		Water	68	1.000	1.007	13.17

## Summary Quotation:

Item No	Description	Weight (lb)	Qty
1	24HH, 2 Stage Bowl Assembly, Material Group A , Flanged Column 16/1.69, L6, Suction Bell, Flanged Discharge Bowl, OLS	0	1
2	Impeller, trimmed, surface finish Ra75, vane exit Std. Fig 4-0.063x3.5	0	2
3	Top Bowl	795	1
4	Bowl, Intermediate	795	1
5	Collar, Sand, lower and upper	0	2
6	Fastener, Bowl, Material 316ss	0	32
7	Fastener, Bowl / Column, 316ss	0	16
8	Nut, Fastener, 316ss	0	16
9	Gasket, Bowl / Column	0	1
10	Dynamic Balanced Impeller	0	2
11	Charge for Polishing (Premium Efficiency)	0	2
12	Ring, Split, Impeller, Material 316ss	0	2
13	Key, Impeller, Material 316ss	0	2
14	Retainer, Split Ring, Material 316ss	0	2
15	Screw, Retainer, Split Ring, Material 316ss	0	4
16	Ring, Seal, Lateral	0	2
17	Suction	1105	1
18	Plug, Pipe (Suction)	0	1
19	Shaft, Pump, D = 2.44 inch, step down to 1.69 inch, L = 66.3 inch, Keyed, Material 416ss	0	1
20	Coupling, Threaded, Shaft, 410ss	2	1
21	Suppressor, Vortex, Material 316Lss	29	1
22	OLS Flanged column 16.0 inch / 1.69 inch shaft / 5ft bearing spacing, length base to bowl 67 inch , p-class 3	0	1
23	Pipe, column flanged 16.0 inch, bottom, length 34 inch, Material plain steel	211	1
24	Pipe, column flanged 16.0 inch, top, code length 33 inch, Material plain steel	206	1
25	Shaft critical speed analysis (provide min - max pump speed)	0	1
26	Shaft-Group of Column	0	1
27	Shaft, line, top, threaded , <2-Piece-Top-Shaft>, D=1.69 inch, L=91.00 inch, Material 416ss	57	1
28	Bearing, Open Line Shaft	0	1
29	Retainer, Bearing, Open Line Shaft	17	1
30	Screw, intermediate flange, Material 316ss	0	14
31	Nut, intermediate flange, Material 316ss	0	14
32	O-ring, intermediate flange	0	1
33	Shaft, Head (Top shaft for VHS motor), <2-Piece-Top-Shaft>, Assembly	0	1
34	Coupling, Shaft, Line, Top, Standard, Material Steel, 1215 CD	2	1

Quote valid for 45 days

Grundfos - RAPID v8.25.6 - 23rd March 2007.



# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 2  
Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

35	Shaft, Head, VHS motor, D=1.69 inch, L=8.00 inch, Mat. 416ss , RTF- NO MOTOR	5	1
36	Shaft, Line, Diameter 1.69 inch, Material 416ss	0	1
37	Mechanical sealing type II, gland: Flush, carbon/ceramic	0	1
38	Stuffing box	0	1
39	T-Bolt, Gland, Standard Material	0	2
40	Nut, Gland	0	2
41	Gasket, Stuffing Box	0	1
42	Ring, Seal	0	1
43	Fastener, Stuffing Box	0	4
44	Fitting, tube compression	0	2
45	Tubing	0	36
46	Washer, Seal gland	0	2
47	Discharge head assembly 16x16x20FRA36, steel	0	1
48	Pump operates at Variable Speed	0	1
49	Head, Discharge 16x16x20FRA36, Motor Base Diameter BD= inch	1226	1
50	Discharge Flange 150 lb	93	1
51	INFO: Dimension C (discharge head shaft stick down) = 6.880 inches	0	1
52	Name Plate, Pump Data	0	1
53	Name Plate, pp Data Screws	0	4
54	Name Plate, Rotation Direction	0	1
55	Name Plate, Warning	0	1
56	Wedge, Leveling	0	4
57	Plug 1, Discharge Head	0	2
58	Plug 2, Discharge Head	0	3
59	Plug 3, Discharge Head	0	1
60	Plug 4, Discharge Head	0	1
61	Plug 5, Discharge Head	0	1
62	Plug 6, Discharge Head	0	1
63	Plug 7, Discharge Head	0	1
64	Guard 1, Coupling	0	1
65	Guard 2, Coupling	0	1
66	Screw, Guard	0	8
67	Washer, Guard	0	8
68	Stud, Flanged Column - Fabricated Head, Material 316ss	0	16
69	Nut, Flanged Column - Fabricated Head, Material 316ss	0	16
70	Gasket, Top Segment, Flanged Column	0	1
71	Painting - Coating	0	1
72	Epoxy coating Class III of Discharge Head, Internal, External PEERLESS blue, enameled (add 2 weeks lead time to Head)	0	1
73	Epoxy coating Class III of column, Internal and External (add 2 weeks lead time to Column)	0	1
74	Epoxy coating Class III of bowl assembly, External (add 2 weeks lead time to bowls)	0	1
75	Laboratory Performance Test, non-witnessed (increases lead time of bowl assembly by 1 week!)	0	1
76	Tolerance Type: Hyd Inst-Peerless Std	0	1
77	Curve Approval (customer approval prior shipping)	0	1
78	Test Units US	0	1
79	Shipping Condition: Pump ASSEMBLED	0	1

Quote valid for 45 days

Grundfos - RAPID v6.25.6 - 23rd March 2007.



# QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Ft Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621 Page No : 3  
Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

80	Factory Assembly at overall length of pump 30ft and less - actual length = 161 Inch (= 13.430 ft)	0	1
81	Add for 25 HP TEFC Motor, Vertical Solid Shaft (budget)	700	1
82	Add for 410 Series Stainless Steel Spacer Coupling (budget)	0	1
83	add for 136" long-x 36" diameter steel suction Barrel with 30" suction flange and epoxy coatings (budget)	2000	1
84	Spare seal (budget)	0	1
85	Spare stuffing box complete (budge)	0	1
86	Shipping to Site (budget)	0	1
87	Start Up assistance (budget)	0	1
88	Critical Seed Engineering (budget)	0	1
89	Add for 18" Flange Break and bearing under stuffing box (budget)	0	1
90	BUDGET SETIMATE ONLY (BUDGET)	0	1

Terms of Payment:

Shipment Terms (INCOTERM)

Total (minus R. F.) (\$): 127,297.23

Estimated Schedule (week[s]):

14

Plus Applicable Taxes

Net Weight Total (lb):

7244

Payment Terms:

Prices quoted subject to acceptance of the Company's  
Terms, Conditions, Warranty and our acceptance within 45 days  
from the date quoted herein.



QUOTE NOT USED



Customer : Cardinal Contractors, Inc.  
Fl Lauderdale, Florida

Tom Evans Environmental, Inc. 3605 Ventura Drive East  
Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

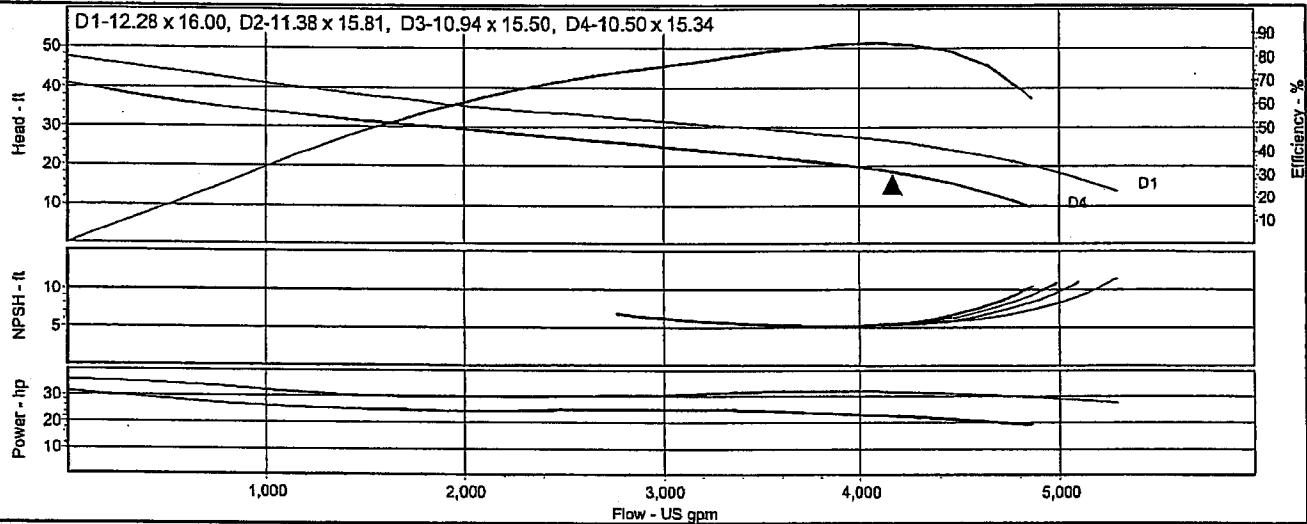
Project : Palm Beach County CRRWF Booster Pump  
Quote No. : US-2695-621

Page No : 4

Contact : Mr. Vincent Capuozzi  
Phone : 954-587-0520 Fax : 954-587-6653  
Date : Thursday, August 08, 2013

Pump Model:	Peerless Vertical - 24HH 2 Stages	Imp. Dia. (inch)	
Nom. Speed:	585 RPM, 60 Hz Electric	Stage No.	Trim Status
Market :	Vertical Turbine Pump	1 - 2	Full Trimmed P
Impeller No.:	2621597 / LC		
Material Spec. Group:	A - B: CIE; I: Brz = Standard		
Item :	25 HP Filter Booster Pump	Flow rate Q:	4164 US gpm
Your Ref. :	Fluid: Water	Bowl Total Head:	18 ft
	Temperature: 68 °F	Bowl Efficiency:	85.4 %
	Viscosity: 1.007 cSt	Bowl Power Required:	22.7 hp
	Sp. Gravity: 1.000 (base temp. 68 °F)	NPSH Required	5 ft

Performance curve according to Hyd Inst-Peerless Std

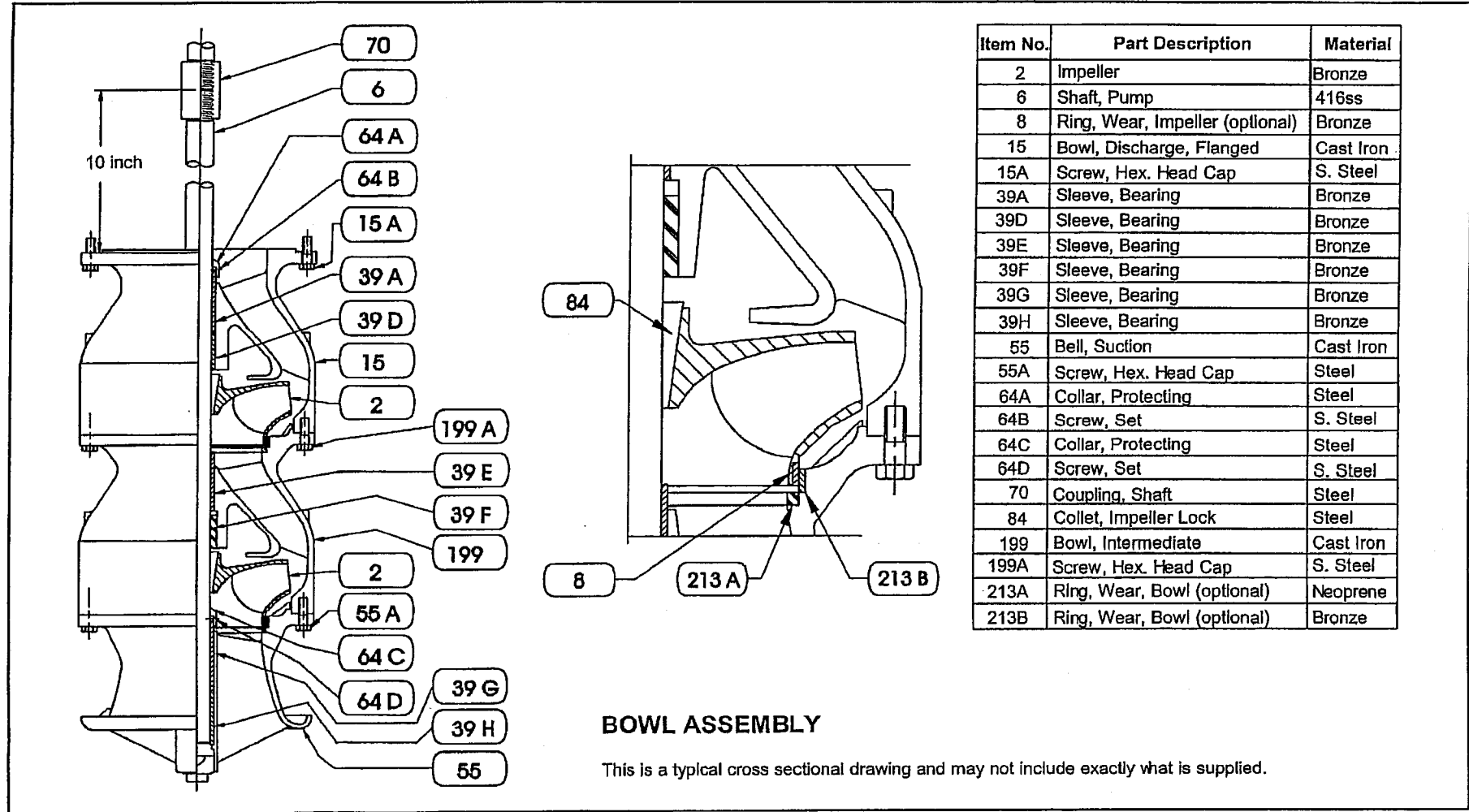


Comments

Refer to factory for all single point bowl performance guarantees. Pumps must be selected with Hydraulic Institute-Peerless Std. See Std Hydraulic Performance document in RAPID for testing tolerances & contractual guarantees.

Flow (US gpm)	Head (ft)	Efficiency (%)	Power Required (hp)	NPSH Required (ft)	Thrust (lb)
0.0	40.9	0.0	31.8		2999
607.9	36.1	19.7	28.1		2686
1215.8	32.9	39.5	25.6		2482
1823.8	30.2	56.5	24.6		2306
2431.7	27.4	68.3	24.7		2119
3039.6	24.7	76.3	24.9	6.2	1908
3647.5	21.8	82.8	24.3	5.3	1660
4255.5	17.7	85.0	22.3	5.7	1342
4863.4	9.7	62.0	19.3		878





QUOTE NOT USED

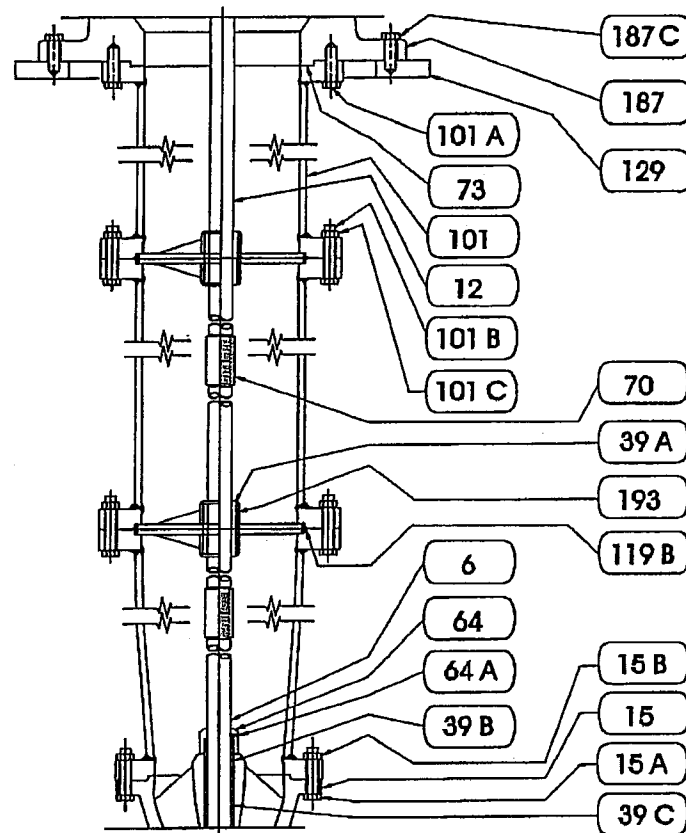
Project :	Palm Beach County CRRWF BoosCapacity:	4164 (US gpm)	Frame/Model:
Customer:	Cardinal Contractors, Inc.	Total Head: 18 (ft)	Elec. Spec.:
Item No.:	25 HP Filter Booster Pump	Pump Speed: 585 (RPM)	Service Factor:
Quote No. :	US-2695-621	Impeller Dia.: 13.17 (Inch)	Rotation:
Pump Model:	Peerless Vertical - 24HH	Power:	Enclosure/Type:



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Lakeland, Fl 33811 863-619-3789 office  
Thomas R. Evans, President  
Phone 305-588-6761 mobile  
Fax 863-619-8098

Date : Thursday, August 08, 2013  
Page No : 5





Item No.	Part Description	Material
6	Shaft, Pump	416ss
12	Shaft, Line	416ss
15	Bowl, Discharge	Cast Iron
15A	Screw, Hex. Head Cap	Steel
15B	Nut, Hex. Head	Steel
39A	Sleeve, Bearing	Bronze
39B	Sleeve, Bearing	Bronze
39C	Sleeve, Bearing	Bronze
64	Collar, Protecting	Steel
64A	Screw, Set	Steel
70	Coupling, Shaft	Steel
73	Gasket	Vellumold
101	Column Pipe	Steel
101A	Screw, Hex. Head Cap	Steel
101B	Screw, Hex. Head Cap	S. Steel
101C	Nut, Hex. Head	S. Steel
119B	O-Ring	Buna N
129	Sole Plate	Steel
187	Head, Discharge	Cast Iron
187C	Screw, Hex. Head Cap	Steel
193	Retainer, Bearing	Bronze

# COLUMN PIPE ASSEMBLY FLANGED CONSTRUCTION

This is a typical cross sectional drawing and may not include exactly what is supplied.

Project :	Palm Beach County CRRWF Boos	Capacity:	4164 (US gpm)	Frame/Model:	
Customer:	Cardinal Contractors, Inc.	Total Head:	18 (ft)	Elec. Spec.:	
Item No.:	25 HP Filter Booster Pump	Pump Speed:	585 (RPM)	Service Factor:	
Quote No. :	US-2695-621	Impeller Dia.:	13.17 (inch)	Rotation:	
Pump Model:	Peerless Vertical - 24HH	Power:		Enclosure/Type:	

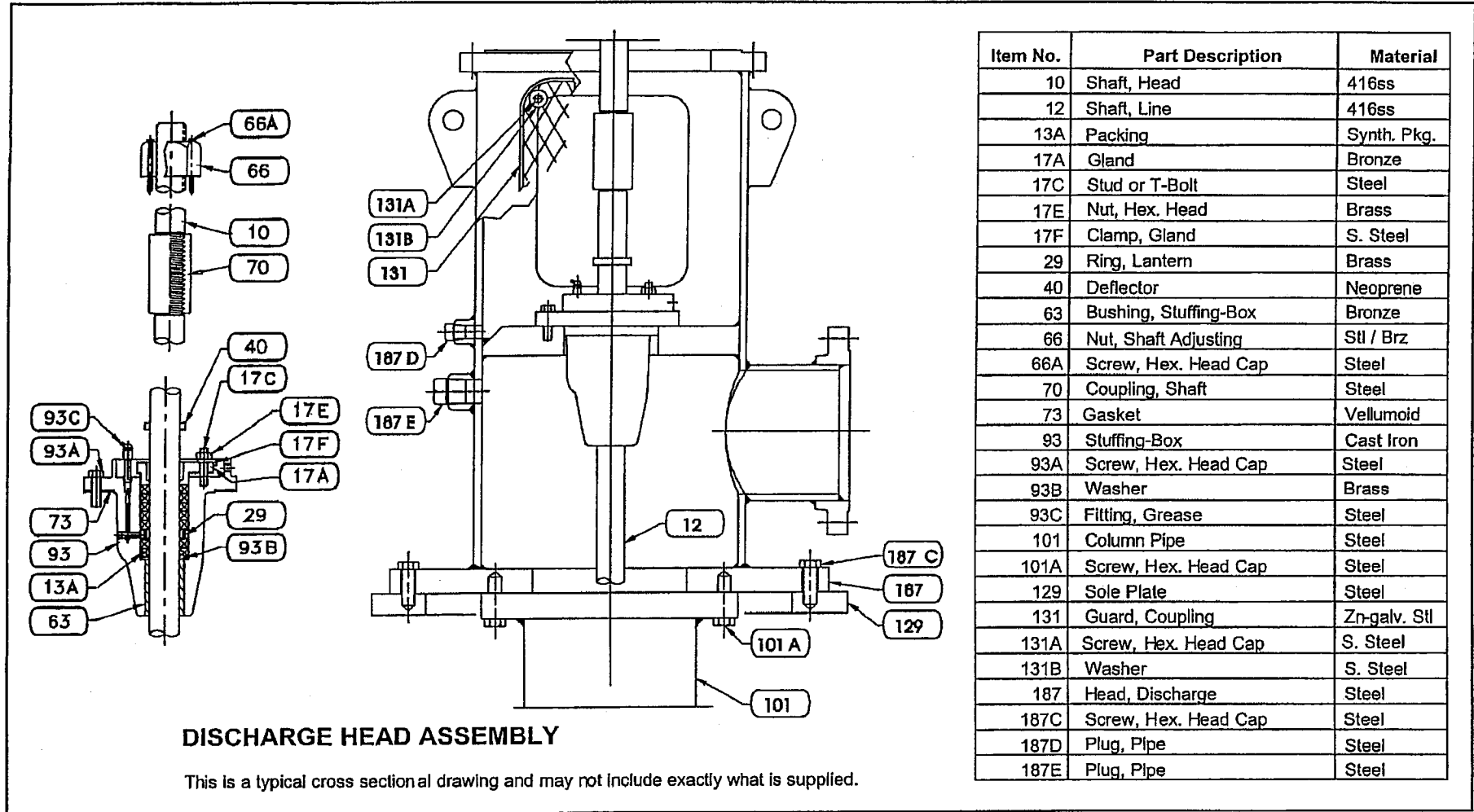


Tom Evans Environmental, Inc. 3605 Ventura Drive East  
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Phone 305-588-6761 mobile  
Fax 863-619-8098

Date : Thursday, August 08, 2013

Page No : 6

Grundfos - RAPID v8.25.6 - 23rd March 2007.



**DISCHARGE HEAD ASSEMBLY**

This is a typical cross sectional drawing and may not include exactly what is supplied.

Item No.	Part Description	Material
10	Shaft, Head	416ss
12	Shaft, Line	416ss
13A	Packing	Synth. Pkg.
17A	Gland	Bronze
17C	Stud or T-Bolt	Steel
17E	Nut, Hex. Head	Brass
17F	Clamp, Gland	S. Steel
29	Ring, Lantern	Brass
40	Deflector	Neoprene
63	Bushing, Stuffing-Box	Bronze
66	Nut, Shaft Adjusting	Stl / Brz
66A	Screw, Hex. Head Cap	Steel
70	Coupling, Shaft	Steel
73	Gasket	Vellumoid
93	Stuffing-Box	Cast Iron
93A	Screw, Hex. Head Cap	Steel
93B	Washer	Brass
93C	Fitting, Grease	Steel
101	Column Pipe	Steel
101A	Screw, Hex. Head Cap	Steel
129	Sole Plate	Steel
131	Guard, Coupling	Zn-galv. Stl
131A	Screw, Hex. Head Cap	S. Steel
131B	Washer	S. Steel
187	Head, Discharge	Steel
187C	Screw, Hex. Head Cap	Steel
187D	Plug, Pipe	Steel
187E	Plug, Pipe	Steel

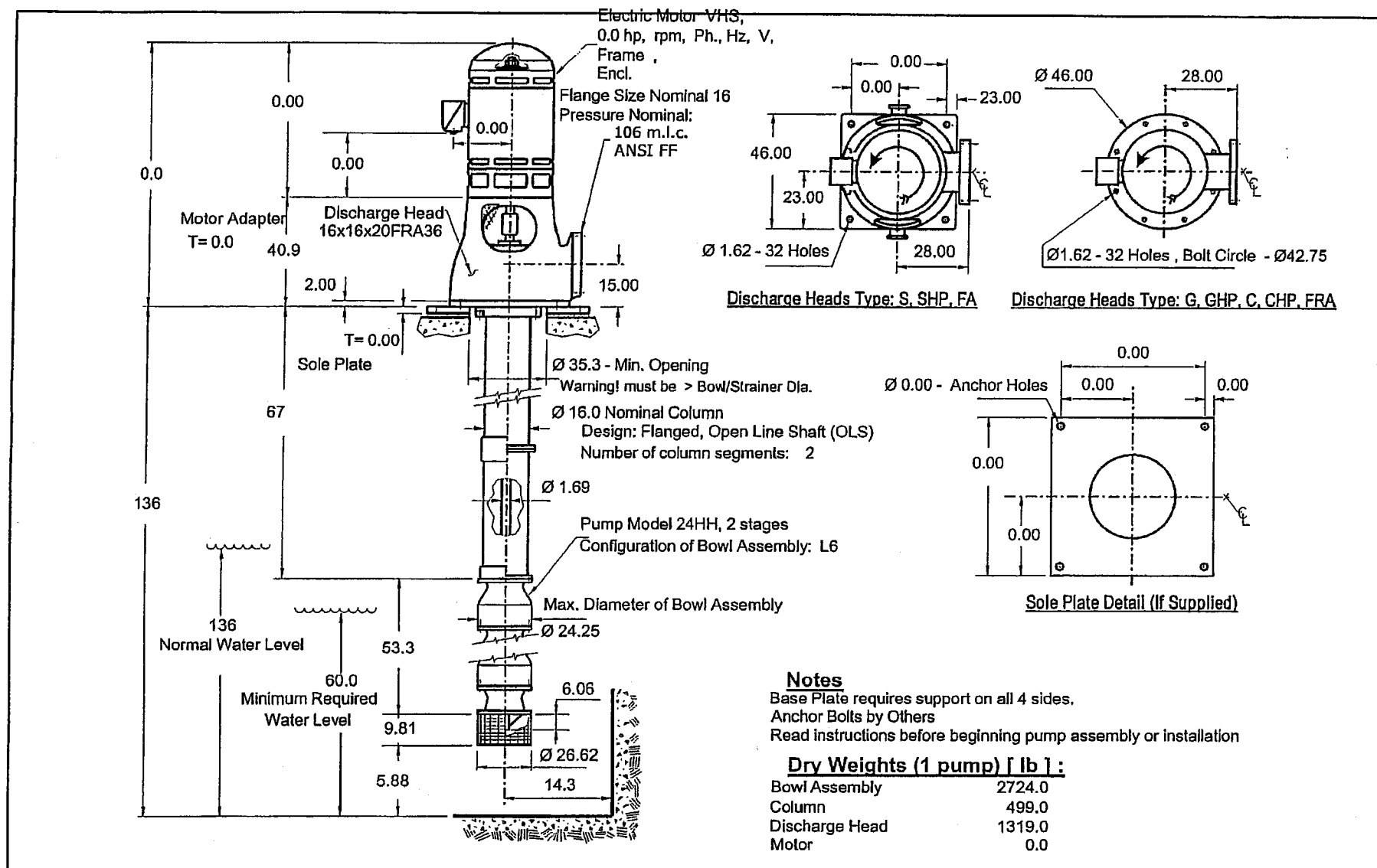
Project :	Palm Beach County CRRWF BoosCapacity:	4164 (US gpm)	Frame/Model:
Customer:	Cardinal Contractors, Inc.	Total Head: 18 (ft)	Elec. Spec.:
Item No.:	25 HP Filler Booster Pump	Pump Speed: 585 (RPM)	Service Factor:
Quote No. :	US-2695-621	Impeller Dia.: 13.17 (inch)	Rotation:
Pump Model:	Peerless Vertical - 24HH	Power:	Enclosure/Type:



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Fax 863-619-8098

Date : Thursday, August 08, 2013  
Page No : 7

QUOTE NOT USED



Dimensions in (Inch)

Project :	Palm Beach County CRRWF Booster	Capacity:	4164 (US gpm)	Frame/Model:	
Customer:	Cardinal Contractors, Inc.	Total Head:	18 (ft)	Elec. Spec.:	
Item No.:	25 HP Filter Booster Pump	Pump Speed:	585 (RPM)	Service Factor:	
Quote No. :	US-2695-621	Impeller Dia.:	13.17 (Inch)	Rotation:	
Pump Model:	Peerless Vertical - 24HH	Power:		Enclosure/Type:	



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Date : Thursday, August 08, 2013

Page No : 8

QUOTE NOT USED

QUOTE NOT USED

Page No : 9

Losses of Head and Power in Pump



Hydraulic Head Losses

In Column due to Friction	0.054 ft
In Tapered Bottom Column Pipe	0.000 ft
In Discharge Head	1.248 ft
Losses Total	1.303 ft

Power Losses

In Column due to Friction of Line Shaft with Water	0.027 hp
In Thrust Bearing	0.000 hp
Losses Total	0.027 hp

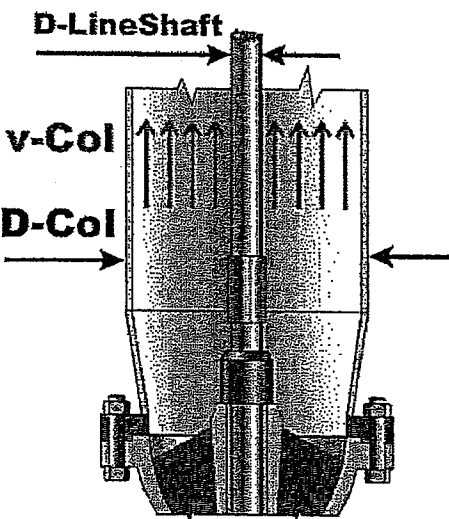
Efficiency of BOWL and Efficiency of PUMP

Efficiency of Bowl in Duty Point	85.41%
Efficiency of Pump / Field in Duty Point (approximately), reduction caused by losses of head and power	79.54%

Column - Supplement Information



Nominal Diameter of Column D-Col =	16.0 inch
Diameter of Line Shaft D-LineShaft =	1.69 inch
Flow Velocity in Column v-Col =	6.7 ft/s



## QUOTE NOT USED WARRANTY

New equipment manufactured by Peerless Pump Company. (Seller) is warranted to be free from defects in material and workmanship under normal use and service for a period of one year from date of shipment, Seller's obligation under this warranty being limited to repairing or replacing at its option any part found to be so defective provided that such part is, upon request, returned to Seller's factory from which it was shipped, transportation prepaid.

This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, accident, neglect, or from improper operation, maintenance, installation, modification or adjustment.

This warranty does not cover parts repaired outside Seller's factory without prior written approval. Seller makes no warranty as to starting equipment, electrical apparatus or other material not of its manufacture, since the same are usually covered by warranties of the respective manufacturers thereof.

In the event, notwithstanding the terms of this agreement, it is determined by a court of competent jurisdiction that an express warranty has been given by Seller to Purchaser with respect to the head, capacity or other like performance characteristics of said equipment, Seller's liability for breach of the same shall be limited to accepting return of such equipment F.O.B. plant of manufacture, refunding any amount paid thereon by Purchaser (less depreciation at the rate of 15% per year if Purchaser has used equipment for more than thirty (30) days) and canceling any balance still owing on the equipment.

Peerless Pump Company. in no event will be liable for indirect or consequential damages.

This warranty is expressly in lieu of any other warranties, expressed or implied, and seller specifically disclaims any implied warranty of merchantability or fitness for a particular purpose.

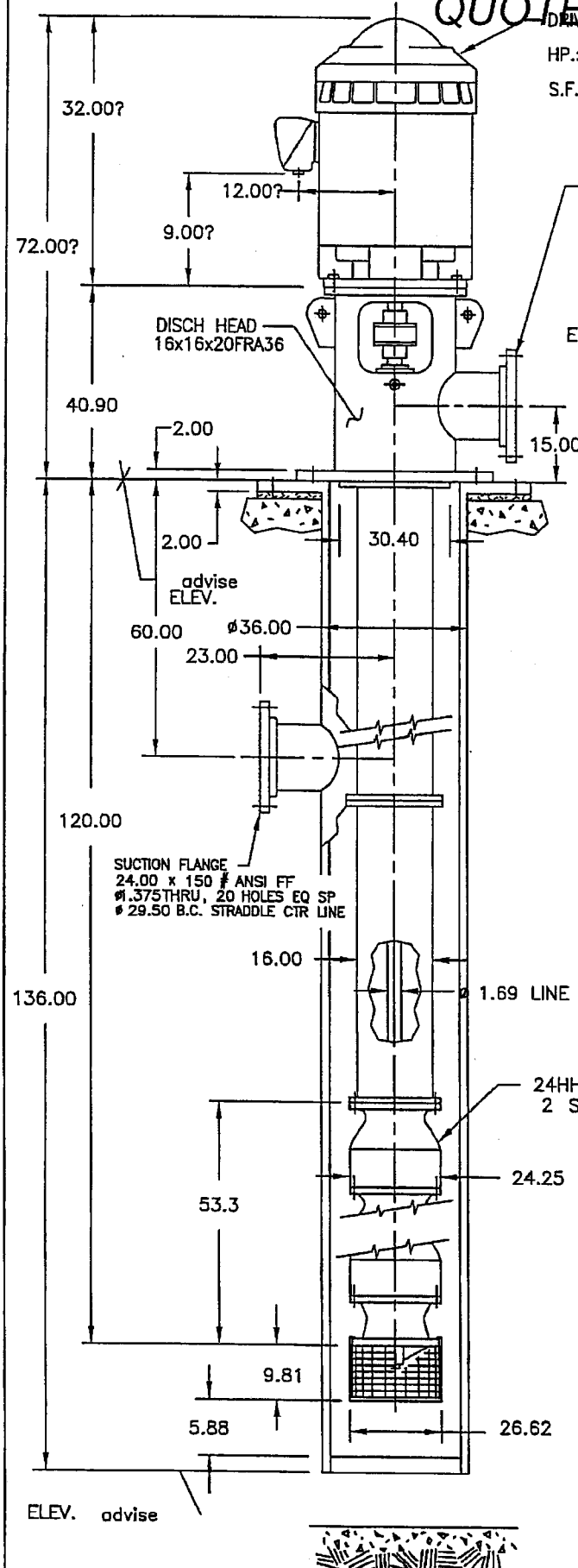


Peerless Pump Company  
2005 Dr. Martin Luther King Jr. Street  
P. O. Box 7026  
Indianapolis, Indiana 46207-7026

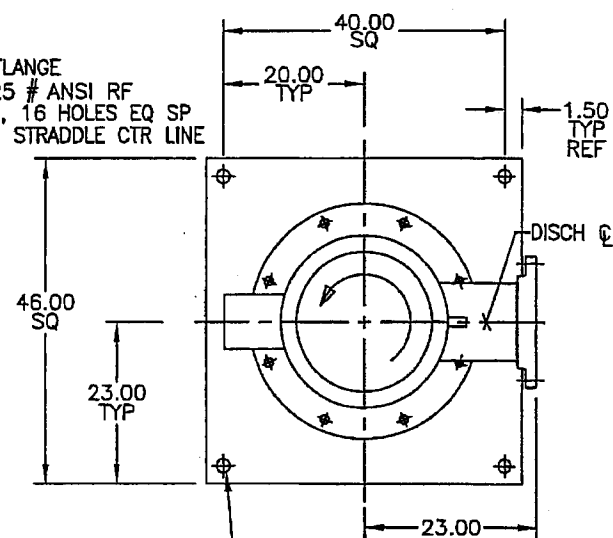
Phone (317) 925-9661      Fax (317) 924-7388

**QUOTE NOT USED**

DRIVER: Noted VSD DRIVER SHAFT TYPE: VSS  
 HP.: 25 RPM.: 585 PH.: 3 HZ.: 60 VOLTS: 460  
 S.F.: 1.15 FRAME: 264 est ENCL.: TEFC



DISCHARGE FLANGE  
 16.00 x 125 # ANSI RF  
 Ø1.12 Thru, 16 HOLES EQ SP  
 Ø 21.25 B.C. STRADDLE CTR LINE



- NOTES:
1. BASE PLATE REQUIRES SUPPORT ON ALL 4 SIDES.
  2. READ INSTRUCTIONS BEFORE BEGINNING PUMP ASSEMBLY OR INSTALLATION.

Peerless Pump Company, Inc.  
 Tom Evans Environmental, Inc.  
 3605 Venture Drive East, Lakeland  
 Florida 33811 863-619-3789

PREPARED BY: Tom Evans  
 DATE: August 8, 2013

S.O. NO.:  
 SOLD TO: Palm Beach County  
CRRWRF  
 USER: PBC Water  
Boca Raton FL

ORDER NO.:  
 ITEM NO: Booster Pump  
 END USE: Filter Feed  
 PUMP SERIAL NO: \_\_\_\_\_

PUMP RATING:  
 FLOW: 4164  
 HEAD: 18

UNLESS OTHERWISE SPECIFIED,  
 ALL DIMENSIONS ARE IN INCHES.

SCALE: NONE DO NOT SCALE DRAWING

THIS PRINT CERTIFIED FOR:  
☒ PROPOSAL ☐ CONSTRUCTION  
☐ APPROVAL CONSTRUCTION DWGS CAN ONLY  
 BE CERTIFIED BY FACTORY  
 BY: TRE DATE: 8/8/2013

DRAWING NUMBER  
US-2695-621

PRELIMINARY DWG ONLY  
 DIMENSIONS SUBJECT TO CHANGE  
 AFTER ENGINEERING REVIEW

APPROXIMATE DRY WEIGHT (Lbs.)	
DRIVER	700
PUMP	2724
Column and Head	1818
TOTAL	4,542

LET	REVISIONS	DATE	BY

# QUOTE NOT USED ROAD REMOVED FROM SCOPE PROPOSAL / CONTRACT

8/23/2013 4:12:02PM

## Florida Blacktop, Inc.

1287 W. Atlantic Boulevard

Pompano Beach, FL 33069

Contact: Paul Emmans

Phone / Fax:: PH: (954) 943-9700 / Fax: (954) 943-9222

E-Mail: paul@floridablacktopinc.com

Quote To:

Vincent Capuozzi

Job Name:

Central Regional RWF Improvements

Company:

CARDINAL CONTRACTORS, INC

Job Location:

2969 Northampton Street

Address:

10405 TECHNOLOGY TERRACE

West Palm Beach, FL. 33417

LAKEWOOD RANCH, FL 34211

Phone:

941-377-8555

Date of Plans:

None shown

Fax:

941-377-8542

Revision Date:

na

Email:

vcapuozzi@cardinalco.com

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
5	Mobilization	1.00	EA	1,200.00	1,200.00
10	Strip grass & dispose, 3"	735.00	SY	3.71	2,726.85
12	Excavate to install 1.5" asphalt + 8" base	159.00	CY	15.46	2,458.14
	Work in this proposal is limited to the items necessary for asphalt pavement installation. Tree & Root removal By others. Adjusting existing utility conflicts by others.				
20	Stabilize existing subgrade 12"	735.00	SY	6.50	4,777.50
30	F&I 8" Limerock Base	735.00	SY	14.46	10,628.10
39	Prime coat base	735.00	SY	0.50	367.50
40	F&I 1.5" Type S asphalt, 1 Lift	735.00	SY	11.99	8,812.65
100	F&I 2 carstops & paint 2 Stalls	1.00	LS	464.60	464.60
GRAND TOTAL					531,435.34

NOTES:

Exclusions: Bond, Maintenance of Traffic (MOT), Engineering, Layout, Testing, & Permit Fees.

FBT is Florida Blacktop, Inc.

We cannot be responsible for breakage of car stops upon removal due to prior condition, but will replace broken car stops at a unit price of \$35.00 each, not included in proposal. We will attempt to improve the existing site drainage, but due to the existing conditions and elevations of the asphalt, we cannot guarantee to eliminate all standing water. Existing cracks with vegetation growing should be prepared with a weed killer such as "Round Up" for several treatments before we arrive on the job. All material and workmanship is warranted for one year from the date of invoice. Large cracks in the existing asphalt may reflect through the new asphalt in time. It is the customer's responsibility to have the cars stop pressure-cleaned before paving is to start. Due to the uncertainty of the liquid index for asphalt, our prices may be subject to re-negotiation upon more than 5% movement in the liquid price. The liquid asphalt price will be based on the current F.D.O.T. Index

42 94

MOT, if included in this bid, pertains to work items by Florida Blacktop, Inc. Florida Blacktop, Inc. is not responsible for maintaining mot for any other trades or work items other than those items specified in this contract.





# QUOTE NOT USED ROAD REMOVED FROM SCOPE

CARDINAL CONTRACTORS, INC  
10405 TECHNOLOGY TERRACE  
LAKEWOOD RANCH, FL 34211  
PHONE: 941-377-8555  
FAX: 941-377-8542

August 23, 2013

Please complete and return per the instructions below

Florida Blacktop
Contact: Paul
Phone: 954-943-9700
E-Mail: paul@floridablacktopinc.com

Request for Proposal for:

Design Build Central Regional RWF Improvements  
Project No. WUD 13-009

Project Location:

2969 Northampton Street  
West Palm Beach, FL. 33417

Project Description: (General Description of Work) Paving

Divisions of Work Include the Following: Site Work

Cardinal Contractors, Inc. requests a quotation from your firm on the above referenced project.

Please check: Yes \_\_\_\_\_ or No \_\_\_\_\_ if you plan on sending us your quote and fax back to our office along with all pertinent information needed as soon as possible.

Plans, Specifications attached.

If you need any assistance or if you have any direct scope related questions, please contact the following:

Vincent Capuozzi, Project Estimator  
Phone: (954) 587-0520 ext. 753  
Fax: (954) 587-6653  
Email: [vcapuozzi@cardinalco.com](mailto:vcapuozzi@cardinalco.com)

Bid File 4030-13-209

---

*Lakewood Ranch Office:*

10405 Technology Terrace, Lakewood Ranch, FL 34211 PH: (941) 377-8555 FX: (941) 377-8542

*Ft. Lauderdale Office:*

5365 Stirling Road Ft. Lauderdale, FL 33314 PH: (954) 587-0520 FX: (954) 587-6653

QUOTE NOT USED

Dale C. Rossman, Inc.

Electrical • Instrumentation • Engineering  
Electrical Contractor License No. EC13002327

P.O. Box 1021  
502 County Rd. 640 East  
Mulberry, Florida 33860  
941.428.9500

7231 Southern Blvd.  
Suite C-1  
West Palm Bch., FL 33413  
561.683-7066

P R O P O S A L

Proposal Submitted To:

CARDINAL CONTRACTORS, INC.

Street:

5365 STIRLING RD.

City, State and Zip Code:

DAVIE, FL. 33314

Attention:

VINCE CAPUOZZI

Job Name:

S. CENTRAL REGIONAL RECLAIM  
WATER FACILITY

Job Location:

PALM BEACH COUNTY

Job Description:

VARIOUS ELECTRICAL MODS.

Date:

12/10/13

Proposal No:

999-SCRRWF

We are pleased to submit our quotation to furnish the necessary labor, material, tools, and equipment for the above referenced project in accordance with your request and as follows:

FURNISH AND INSTALL ALL CONDUIT, WIRE, TERMINATIONS, AND GROUNDING FOR MODIFICATIONS TO THE ELECTRICAL SYSTEM AS SHOWN ON CALVIN GIORDANO & ASSOCIATES DRAWINGS. INCLUDES ALL START-UP AND (2) PLC I/O CARDS AS REQUIRED.

NOT INCLUDED:

SAWCUTTING OR PATCHING OF PAVEMENT OR CONCRETE, PUMPS, VFDS, INSTRUMENTATION OR IMPULSE PIPING, FINAL RESTORATION OR SODDING. ELECTRICAL PERMIT AND TEMPORARY POWER NOT INCLUDED, BUT AVAILABLE FOR EXTRA COSTS.

Price is based on a normal 40 hour work week. Premium time is not included. Thank you for the opportunity to submit our proposal and we look forward to serving you.

For the sum of:

ONE HUNDRED SIXTEEN THOUSAND DOLLARS

Dollars(\$):

\$116,000

Payment to be made as follows: PROGRESS PAYMENTS - MATERIALS STORED ON SITE - NET FIFTEEN (15) DAYS

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized  
Signature



David Flynn Project Manager

Note: This proposal may be withdrawn if not accepted within  
THIRTY (30) days.

Acceptance of proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. Dale C. Rossman, Inc., is authorized to do the work as specified. Payment will be as outlined above.

Signature: \_\_\_\_\_

Date of Acceptance: \_\_\_\_\_

Signature: \_\_\_\_\_

# Telephone Bid

**JOB NAME:**

WUD 13-009

**TIME:**

AM

PM

DATE: 12/4/2013

## FIRM QUOTING

POWERLINE OF SOUTH FLORIDA, INC.

**BID GIVEN BY:**

### JOB LOCATION

PALM BEACH COUNTY

**ADDRESS:**

711 COMMERCE WAY SUITE 6

ESTIMATE NO.

JUPITER, FL 33458

BID TAKEN BY

CLASS OF WORK

## ELECTRICAL SUBCONTRACTOR

## ACKNOWLEDGEMENT OF ADDENDA

## WORK TO BE PERFORMED

AMOUNT OF BID

1. FURNISH & INSTALL NEW DISCONNECTS FOR STRAINER
2. FURNISH & INSTALL (2) MOTORIZED ACTUATORS & BREAKERS
3. FURNISH & INSTALL DISCONNECTS FOR NEW PUMP & REUSE EXISTING VFD.
4. FURNISH & INSTALL NEW DISCONNECT, BREAKER & TRANSFORMER FOR NEW PREPAB BUILDING
5. CONDUIT & WIRE
6. GROUNDING & LIGHTNING PROTECTION
7. ASSIST WITH START-UP

QUOTE NOT USED

TOTAL BID

NO BID

**BOND INCLUDED**

☐ YES ☐ NO

SALES TAX INCLUDED

☐ YES ☒ NO

DELIVERED TO JOB SITE

☐ YES ☐ NO

DELIVERY DATE

MISC.

## ALTERNATES, EXCLUSIONS OR QUALIFICATIONS

PERSONS - NEWS the (CIS) Mass. D. 471 To Order PHONE TOLL FREE 5-850 225 6200

ADJUSTED TOTAL