BID/CONTRACT DOCUMENTS

REUSE TREATMENT PLANT SODIUM HYPOCHLORITE FEED SYSTEM UPGRADE

BID L-55-15

For the City of Pompano Beach, Florida

OPTIONAL PRE-BID CONFERENCE: SEPTEMBER 15, 2015, 9:00 a.m. (local)
REUSE TREATMENT PLANT
1799 NORTH FEDERAL HIGHWAY
POMPANO BEACH, FL 33062

BID OPENING: October 6, 2015, 2:00 p.m. (local)
PURCHASING DIVISION
1190 N.E. 3RD AVENUE, BUILDING C (FRONT)
POMPANO BEACH, FLORIDA 33060

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INVITATION TO BID

Sealed Proposals for **Bid L-55-15, Reuse Treatment Plant Sodium Hypochlorite Feed System Upgrade** addressed to the City of Pompano Beach, Purchasing Office, 1190 N.E. 3rd Avenue, Building C (front) Pompano Beach, Florida 33060, will be received until **2:00 p.m. (local), on October 6, 2015** and will be publicly opened and read aloud. Any bids received after the time and date will not be considered.

An Optional Pre-Bid Conference will be held on Tuesday September 15, 2015 at 9:00 a.m. (local) at the Reuse Treatment Plant, 1799 North Federal Highway, Pompano Beach, Florida 33062**. Attendance is highly recommended.** A site visit will be conducted immediately following the Pre-Bid Conference.

The work under this Specification includes the furnishing of all design, permitting, labor, materials, equipment, documentation, supply of temporary systems, installation, training and startup services for the supply and installation of an upgrade to the existing sodium hypochlorite feed system at the City of Pompano Beach Utilities Reuse Treatment Plant, The Work is to be done at the City of Pompano Beach Reuse Treatment Plant located at 1799 North Federal Highway, Pompano Beach, Florida 33062. This site has restricted access. Bidders may contact the Utilities Administration Office at 954-545-7016 to schedule a site visit. The project shall be completed within 120 days of the Notice to Proceed being issued.

Bid documents may be obtained at no charge from the City of Pompano Beach website www.pompanobeachfl.gov.

Each proposal must be submitted on the prescribed form and accompanied by a certified check or bid bond executed on the prescribed form, payable to the City of Pompano Beach, Florida, in an amount not less than 5 percent (5%) of the amount bid. The bid form must be filled in completely and accurately, particularly as it pertains to alternate bid items.

All bid bonds, contract bonds, insurance contracts and certificates of insurance shall be either executed by or countersigned by a licensed resident agent of the surety or insurance company having his place of business in the State of Florida, and in all ways complying with the insurance laws of the State of Florida. Further, the said surety or insurance company shall be duly licensed and qualified to do business in the State of Florida. **Insurance is required for all bids.**

In order to perform public work, the successful Bidder shall, as applicable, hold or obtain such Contractor' and Business Licenses as required by State Statutes.

Before a Contract will be awarded for the work contemplated herein, the OWNER will conduct such investigation as is necessary to determine the performance record and ability of the apparent low Bidder to perform the size and type of Work specified under the Contract Documents, and to postpone the award of the Contract for a period of time which, however, shall not exceed 90 Days from the bid opening date.

Dated this 3rd day of September, 2015
CITY OF POMPANO BEACH
By: Cassandra LeMasurier, Purchasing Supervisor

INSTRUCTIONS TO BIDDERS

1. DEFINED TERMS

Terms used in these Instructions to Bidders, which are defined in the Standard GENERAL CONDITIONS of the Construction Contract, have the meanings assigned to them in the GENERAL CONDITIONS. The term "Bidder" means one who submits a Bid directly to OWNER, as distinct from a sub-bidder, who submits a bid to a Bidder. The term "Successful Bidder" means the lowest, qualified, responsible and responsive Bidder to whom OWNER (on the basis of OWNER'S evaluation as hereinafter provided) makes an award. The term "Bidding Documents" includes the Invitation to Bid, Instructions to Bidders, the Bid Proposal, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

2. COPIES OF BIDDING DOCUMENTS

2.1 Complete sets of the Bidding Documents may be obtained from the City of Pompano Beach website at no charge.

2.2 Complete sets of Bidding Documents must be used in preparing Bids; the OWNER assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.3 OWNER, in making copies of Bidding Documents available on the above terms, does so only for the purpose of obtaining Bids on the Work and does not confer a license or grant for any other use.

3. QUALIFICATIONS OF BIDDERS

To demonstrate qualifications to perform the Work, and to be considered for award, each Bidder must submit written evidence, such as previous experience, present commitments and other such data as may be called for in this document.

4. PUBLIC ENTITY CRIMES

In accordance with Florida State Statute 287.133 (2)(a): A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided s. 287.017 for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

5. DRUG FREE WORKPLACE

In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-free Workplace Programs. Bidder should complete and provide Statement Under Section 287.087 Florida Statutes on Drug-Free Workplace.

6. ANTI-KICKBACK ACT

The successful bidder must comply with the Copeland "Anti-Kickback Act" (19 U.S.C. Section 874), as supplemented in U.S. Department of Labor Regulations (29 CFR, Part 3).

7. EXAMINATION OF CONTRACT DOCUMENTS AND SITES

7.1 It is the responsibility of each Bidder before submitting a Bid, to (a) examine the Contract Documents thoroughly, (b) visit the site to become familiar with local conditions that may affect costs, progress, performance or furnishing of the Work, (c) consider federal, state and local Laws and Regulations that may affect cost, progress, performance or furnishing of the Work, (d) study and carefully correlate Bidder's observations with the Contract Documents, and (e) notify OWNER of all conflicts, errors or discrepancies in the Contract Documents.

7.2 Information and data reflected in the Contract Documents with respect to or contiguous to the site is based upon information and data furnished to OWNER by owners of such facilities or others, and OWNER does not assume responsibility for accuracy or completeness thereof unless it is expressly provided otherwise.

7.3 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on subsurface conditions, Underground Facilities and other physical conditions, and possible changes in the Contract Documents due to differing conditions appear in the General Conditions.

7.4 Before submitting a Bid, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the Work and which Bidder deems necessary to determine its Bid for performing and furnishing the work in accordance with the time, price and other terms and conditions of the Contract Documents.

7.5 On request in advance, OWNER will provide each Bidder access to the site to conduct such explorations and tests as each Bidder deems necessary for submission of a Bid. Bidder shall fill all holes, clean up and restore the site to its former condition, or better, upon completion of such explorations.

7.6 The lands upon which the Work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by CONTRACTOR in performing the Work are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by CONTRACTOR. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by OWNER unless otherwise provided in the Contract Documents.

7.7 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this section and the General Conditions, that without exception the Bid is premised upon performing and furnishing the Work required by the Contract Documents and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

8. INTERPRETATIONS AND ADDENDA

8.1 All questions are to be submitted in writing to the Purchasing Office, 1190 N.E. 3rd Avenue, Building C (Front), Pompano Beach, Florida 33060; questions may be submitted by fax to (954) 786-4168, or by email to purchasing@copbfl.com. All questions must include the inquiring firm's name, address, telephone number, and bid name and number.

All written questions must be received by **5:00 p.m. on September 29, 2015** at the above location. No further questions will be accepted after this date. Oral and other interpretations or clarifications will be without legal effect. Questions may be faxed to (954) 786-4168, referencing the bid number on all pages faxed.

8.2 Addenda may also be issued to modify the Bidding Documents as deemed advisable by the OWNER.

9. BID SECURITY

9.1 Each Bid must be accompanied by Bid security made payable to OWNER in an amount of five percent of the Bidder's maximum Bid price and in the form of a certified or bank check or a Bid Bond issued by a surety meeting the requirements stated herein.

9.2 The Bid security of the Successful Bidder will be retained until such Bidder has executed the Agreement and furnished the required contract security, (if provided as a cashier's check or bank officer's check), whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Agreement and furnish the required contract security within 10 days after the Notice of Award, OWNER may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security of other Bidders whom OWNER believes to have reasonable chance of receiving the award may be retained by OWNER until a completed contract has been issued, whereupon Bid security furnished by such Bidders will be returned.

9.3 The Bid Bond, if provided, shall be issued by a Company having a registered agent in the State of Florida. This check or bond shall be retained by the payee as liquidated damages should the bidder refuse or fail to enter into a contract with the payee for the execution of the work embraced in the proposal, in the event the proposal of the bidder is accepted.

10. CONTRACT TIME

The number of days within which, or the dates by which, the Work is to be substantially completed and also completed and ready for final payment (the Contract Time) are set forth in the section entitled Bid Proposal.

11. LIQUIDATED DAMAGES

11.1 Provisions for liquidated damages, if any, are set forth in the Agreement.

11.2 All bidders must state in the Bid Proposal the amount of consideration required by the Bidder in return for the Bidder's promise of indemnity contained in the General Conditions. The amount to be stated shall be no less than $10.00.

12. SUBSTITUTE OR "OR-EQUAL" ITEMS

The Contract, if awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Specifications without consideration of possible substitute or "or-equal" items. Whenever it is indicated in the Drawings or specified in the Specifications that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to OWNER, application for such acceptance will not be considered by OWNER until after the effective date of the agreement.

13. SUBCONTRACTORS, SUPPLIERS AND OTHERS.

13.1 Each Bid must identify the names and address of Subcontractors, Suppliers and other persons and organizations including those who are to furnish the principal items of material and equipment listed in the Bid Proposal section. If requested, the apparent Successful Bidder, and any other Bidder so requested, shall within seven days after the Bid opening submit to OWNER a list of all such Subcontractors, Suppliers and other persons and organizations proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, other persons or organization, if requested by OWNER. If OWNER after due investigation has reasonable objection to any proposed Subcontractor, Supplier, other person or organization, may before the Notice of Award is given request the apparent Successful Bidder to submit an acceptable substitute without an increase in Bid price. If apparent Successful Bidder declines to make any such substitution, Owner may award the contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers and other persons and organizations. The declining to make requested substitutions will not constitute grounds for sacrificing the Bid Security of any Bidder. Any Subcontractor, Supplier, other person or organization listed and to whom OWNER does not make written objection prior to the giving of the Notice of Award will be deemed acceptable to OWNER subject to revocation of each acceptance after the Effective Date of Agreement.

13.2 In contracts where the Contract Price is on the basis of Cost-of-the Work Plus a fee, the apparent Successful Bidder, prior to the Notice Award, shall identify in writing to OWNER those portions of the Work that such Bidder proposes to subcontract and after the Notice of Award may only subcontract other portions of the Work with OWNER'S written consent.

13.3 No CONTRACTOR shall be required to employ any Subcontractor, Supplier, other person or organization against who CONTRACTOR has reasonable objection.

14. BID PROPOSAL

14.1 The Bid Proposal is included with the Bidding Documents.

14.2 All blanks on the Bid Proposal are to be completed in ink or by typewriter. The City requests three (3) copies of the bid be submitted, (one original, and two copies). Bidders are to complete and return pages 12-24.

14.3 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

14.4 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

14.5 All names must be typed or printed below the signature.

14.6 The Bid should contain an acknowledgment of receipt of all Addenda (the numbers of which should be filled in on the Bid Proposal).

14.7 The address and telephone number for communications regarding the Bid must be shown.

14.8 All blank spaces in the bid form must be filled in, both words and figures where required. In case of discrepancy between unit prices and totals, unit prices will prevail.

15. SUBMISSION OF BIDS

15.1 Bids shall be submitted before the time and at the place indicated in the Invitation to Bid and shall be submitted in an opaque sealed envelope. The envelope shall be marked on the exterior with the Project title, City Bid Number, the name and address of the Bidder, and addressed to:

Cassandra LeMasurier, Purchasing Supervisor
City of Pompano Beach, Florida
1190 N.E. 3rd Avenue, Bldg. C (front)
Pompano Beach, Florida 33060

The Bid shall be accompanied by the Bid Security and other required documents. If not mailed, please deliver to the Purchasing Office, 1190 N.E. 3rd Avenue, Building C (front), Pompano Beach, Florida, 33060.

15.2 More than one Bid received for the same work from an individual, firm or partnership, Corporation or Association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one Bid for the same work will cause the rejection of all such Bids in which the Bidder is interested. If there are reasonable grounds for believing that collusion exists among the Bidders, the Bids of participants in such collusion will not be considered.

15.3 If you wish to receive a copy of the bid tabulation sheet after opening, please submit a stamped, self-addressed envelope with your bid. Bid results ***will not*** be read to you over the phone. Bid tabulations are also posted on the City's website.

16. MODIFICATION AND WITHDRAWAL OF BIDS

16.1 Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids.

16.2 After bids are opened, and a contractor defaults on a City contract, the contractor may be banned from doing business with the City for a period of 36 months from the date of default.

17. OPENING OF BIDS

Bids will be opened and (unless obviously non-responsive) read aloud publicly. An abstract of the amounts of the base Bids and major alternates (if any) will be made available to Bidders after the opening of Bids.

18. BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.1 All bids will remain subject to acceptance for ninety (90) days after the day of the Bid opening, but OWNER may, in its sole discretion, release any Bid and return the Bid Security prior to that date.

18.2 Extensions of time when Bids shall remain open beyond the ninety (90) day period may be made only by mutual agreement between OWNER, the Successful Bidder, and the surety, if any, for the Successful Bidder.

19. AWARD OF CONTRACT

19.1 OWNER reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time and changes in the Work and to negotiate contract terms with the Successful Bidder, and the right to disregard all nonconforming nonresponsive, unbalanced or conditional Bids. Also, OWNER reserves the right to reject the Bid of any Bidder if OWNER believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Bid is not responsible or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by OWNER. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum therefor will be resolved in favor of the correct sum.

19.2 In evaluating Bids, OWNER will consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid form or prior to the Notice of Award.

19.3 OWNER may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work as to which the identity of Subcontractor, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. OWNER also may consider the operating costs, maintenance requirements, performance data and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.

19.4 OWNER may conduct such investigations as OWNER deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of Bidders, proposed Subcontractors, Suppliers and other persons and organizations to perform and furnish the Work in accordance with the Contract Documents to OWNER'S satisfaction within the prescribed time.

19.5 If the contract is to be awarded, it will be awarded to the lowest Bidder whose evaluation by OWNER indicates to OWNER that the award will be in the best interests of the Project.

19.6 If the contract is to be awarded, OWNER will give the Successful Bidder a Notice of Award within ninety (90) after the day of the Bid opening.

20. CONTRACT SECURITY

When the Successful Bidder delivers the executed Agreement to OWNER, it must be accompanied by the required Performance and Payment Bonds.

21. SIGNING OF AGREEMENT

When OWNER gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within ten (10) days thereafter, CONTRACTOR shall sign and deliver the required number of counterparts of the Agreement and attached documents to OWNER with the required Bonds. Within fifteen (15) days thereafter OWNER shall deliver one fully signed counterpart to CONTRACTOR. Each counterpart is to be accompanied by a complete set of the Drawings with appropriate identification.

22. TAXES

The CONTRACTOR shall pay all applicable sales, consumer, use and other similar taxes required by law. The CONTRACTOR is responsible for reviewing the pertinent state statutes involving the sales tax and complying with all requirements.

23. NOTICE TO CONTRACTOR

The employment of unauthorized aliens by any contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the Contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the contract.

24. NON DISCRIMINATION

There shall be no discrimination as to race, color, religion, gender, national origin, ancestry, and physical or mental disability in the operations conducted under this contract. Included as applicable activities by the contractor under this section are the solicitation for, or purchase of, goods or services, or the subcontracting of work in performance of this contract.

25. OCCUPATIONAL HEALTH AND SAFETY

In compliance with Chapter 442, Florida Statues, any items included in the latest edition of "Florida Substance List" which are delivered from a contract resulting from this bid must be accompanied by a Material Safety Data Sheet (MSDS). The MSDS must be maintained by the user agency and must include the following information:

(a) The chemical name and the common name of the toxic substance.

(b) The hazards or other risks in the use of toxic substance, including:

1. The potential for fire, explosion, corrosiveness, and reactivity;

2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by exposure to the toxic substance; and

3. The primary routes of entry and symptoms of overexposure.

(c) The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of overexposure.

(d) The emergency procedure for spills, fire disposal, and first aid.

(e) A description in lay terms of the known specific potential health risks posed by the toxic substance intended to alert any person reading this information.

(f) The year and month, if available, that the information was compiled and the name, address, and the emergency telephone number of the manufacturer responsible for preparing the information.

Any questions regarding this requirement should be directed to:

Department of Labor and Employment Security, Division of Safety, 2002 Old St. Augustine Road, Tallahassee, Florida, 32399; telephone: 1-800-367-4378.

ALL TOXIC SUBSTANCES MUST BE LABELED FOR IDENTIFICATION, IN ACCORDANCE WITH O.S.H.A. STANDARDS.

Notice: Federal I.D. Number must be referenced on your invoice for us to process payment. Please note I.D. Number on Bid Response page.

26. PERMITS AND FEES

The Contractor awarded the project which is the scope of this bid document shall be required to obtain and pay for the permits and/or fees indicated on the chart below in the amounts set forth or pursuant to the formula for percent or unit method which is indicated.

Fees cannot be waived and must be collected by the City from the Contractor. Contact the City Department indicated for additional details regarding the required permit and fee.

FEE OR PERMIT	CITY DEPARTMENT	COST (SET FEE OR PERCENT OF PROJECT AMOUNT)
All construction within City right-of-way	Engineering	Waived
All utilities tie-ins to City water, sewers, and drainage	Engineering	Waived
Paving	Engineering	Waived
Fire plan review for new construction, additions and alterations	Building Inspection	See City Code of Ordinances 95.14
Fire alarm and fire sprinkler plan review (new installations)	Fire Plan Review	See City Code of Ordinances 95.14
Fire hydrant flow test	Fire Plan Review	See City Code of Ordinances 95.14
Business Tax Receipt (only if the contractor has a temporary office in the City of Pompano Beach)	Zoning	See City Code of Ordinances
Site plan review	Zoning	See City Code of Ordinances
Rezoning	Zoning	See City Code of Ordinances
Variance	Zoning	See City Code of Ordinances
Tree Permit application fee	Zoning	See Zoning Code/City Code of Ordinances
Landscape reinspection fee	Zoning	See Zoning Code/City Code of Ordinances
Capital recovery fees	Customer Service	See City Code of Ordinances 50.13 and 51.11
Tapping fee	Customer Service	See City Code of Ordinances
Deposits (water bill)	Customer Service	Deposit based upon size of meter (only applies if contractor responsible for water bills during period between meter installation and City acceptance of project.)
Administrative fee	Customer Service	See City Code of Ordinances
Building permit	Building Inspection	See Bldg Fee Schedule/City Code of Ordinances
Building Reinspection fee	Building Inspection	See Bldg Fee Schedule/City Code of Ordinances
Certificate of occupancy	Building Inspection	See Bldg Fee Schedule/City Code of Ordinances
Lien law	Building Inspection	$5.00
Surcharge Bwd. Cty. Bd. of Rules & Appeals	Building Inspection	$0.60 per $1,000 valuation
Surcharge Fla. Statute 553.721	Building Inspection	1.5% of permit fees, minimum $2.00
Surcharge Fla. Statute 468.631	Building Inspection	1.5% of permit fees, minimum $2.00

BID PROPOSAL

PROJECT IDENTIFICATION

Project Name: Reuse Treatment Plant Sodium Hypochlorite Feed System Upgrade

Bid Number: L-55-15

THIS BID IS SUBMITTED TO

OWNER: City of Pompano Beach, Florida

Address: 1190 N. E. 3rd Avenue, Building C, Pompano Beach, Florida 33060

BIDDER-COMPANY NAME

Name: _____

Address: _____

_____

NAME OF PERSON TO CONTACT FOR ADDITIONAL INFORMATION ON THIS BID

Name & Title:_____

Telephone Number: _____

Fax Number: _____

Email: _____

Date: _____

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for ninety (90) Days after the Bid Opening. BIDDER will sign and submit the Agreement with the Bonds and other documents required by Bidding Requirements within ten (10) days after the date of OWNER'S Notice of Award.

3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:

A. BIDDER has examined copies of all the bidding Documents and of the following Addenda (receipt of all which is hereby acknowledged):

Date	Number
_____	_____
_____	_____
_____	_____
_____	_____

B. BIDDER has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

C. BIDDER has studied carefully all reports and drawings of physical conditions which are identified in the bid.

D. BIDDER has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests and studies (in addition to or to supplement those referred to in (C) above) which pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance or furnishing of the Work as BIDDER considers necessary for the performance or furnishing of the Work at the Contract Price within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by BIDDER for such purposes.

E. Bidder has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing site conditions and assumes responsibility for such. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said site are or will be required by Bidder in order to perform and furnish the Work at Work Contract Price, within the Contract Time and in accordance with other terms and conditions of the Contract Documents.

F. BIDDER has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

G. BIDDER has given OWNER written notice of all conflicts, errors or discrepancies that it has discovered in the Contract Documents and the written resolution thereof by Owner is acceptable to Bidder.

H. This Bid is genuine and not made in the interest or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or

corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other Bidding or over OWNER.

4. BIDDER agrees that the construction of the Project will be **substantially complete within ____** calendar days after the date when the Contract Time commences to run as provided in the GENERAL CONDITIONS, and **completed and ready for final payment within ____** calendar days after the date when the Contract Time commences to run.

   BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

5. BIDDER agrees that all Federal, State and local sales and use taxes are included in the stated bid prices for the Work.

6. BIDDER further proposes to accept as full payment for the work proposed herein the amounts computed under the provisions of the Contract Documents and based on the following unit prices (if applicable) represent a true measure of the labor, materials, equipment and any other incidentals required to perform the work, including all allowances for overhead and profit for each type and unit of work called for in these Contract Documents.

7. **BID PROPOSAL**

The work under this Specification includes the furnishing of all permitting, labor, materials, equipment, documentation, supply of temporary systems, installation, training and startup services for the supply and installation of an upgrade to the existing sodium hypochlorite feed system at the City of Pompano Beach Utilities Reuse Treatment Plant, according to the plans and as specified herein:

(The rest of the page has been left blank intentionally.)

Item	Description	Unit	Amount
1.	Furnish all design, permitting, labor, materials, equipment, documentation, supply of temporary systems, installation, training and startup services for the supply and installation of an upgrade to the existing sodium hypochlorite feed system at the City of Pompano Beach Utilities Reuse Treatment Plant	LS	$_____
2.	Indemnification	LS	**$10.00**
	GRAND TOTAL		**$**_____

8. The above includes all the necessary excavation, backfill, grading, restoration, and removal of materials attendant upon the construction of the work, complete in place, and the disposal of all excess materials, and the final cleaning up of the work.

DATE _____ BIDDER: _____
(Corporation Name) (Partnership Name) (Trade Name)

BY: _____
Name & Title of Signer

_____
Manual Signature

Company Name: _____

Company Address: _____

_____(Zip) _____

Telephone #: (_____)_____

Email Address _____

Federal I.D. #_____

State of Florida Contractor's license #_____

Broward County Certificate of Competency #:_____
Expiration Date: _____

9. At the preconstruction conference, the BIDDER shall submit a complete detailed schedule of shop drawing submittals which will show lead time for:

Date of Planned submittal.
Date of anticipated receipt of review (usually three weeks after submittal).
Delivery lead time.
Anticipated installation date.

10. Qualifications Of Bidders

To demonstrate qualifications to perform the Work, and to be considered for award, each Bidder must submit written evidence, such as previous experience, present commitments and other such data as may be called for below (or in SUPPLEMENTARY CONDITIONS). Each Bid must contain evidence of Bidder's qualification to do business in the State where the Project is located or covenant to obtain such qualification prior to executing the Agreement.

10.1 How many years has your organization been in business as a General Contractor?
_____

10.2 What is the last project of this nature that you have completed?
_____

10.3 Have you ever failed to complete work awarded to you? If Yes, where and why?
_____

_____

10.4 List all work performed over the last year.

Project Name _____

Owner's Name _____

Owner's Address _____

_____

Phone Number _____

Nature of Work _____

Original Contract Completion Time (Days) _____

Original Contract Completion Date _____

Actual Final Contract Completion Date _____

Original Contract Price _____

Actual Final Contract Price _____

(Attach additional information as required)

10.5 List all work of similar type, complexity, and comparable value over the past five (5) years and the nature of work performed. (Attach additional information on separate sheet)

Project Name _____

Owner's Name _____

Owner's Address _____

_____

Phone Number _____

Nature of Work _____

Original Contract Completion Time (Days) _____

Original Contract Completion Date _____

Actual Final Contract Completion Date _____

Original Contract Price _____

Actual Final Contract Price _____

10.6 The following are names as five (5) individuals or corporations for which you have performed work of this nature and to which you list as references, excluding the City of Pompano Beach.

NAME	ADDRESS	TELEPHONE	CONTACT PERSON

10.7 Have you personally inspected the proposed work and have you a complete plan for it performance?

_____

10.8 Will you sub-contract any part of this work? _____ Yes _____ No
If Yes, list all proposed subcontractors to be used on this project if the Bidder is awarded the Contract for this project. The successful Bidder shall submit a COMPLETE list of any work that he proposes to subcontract and the proposed subcontractors prior to execution of the contract.

CLASSIFICATION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR
_____	_____
_____	_____
_____	_____
_____	_____

(Submit any additional contractors to be used on a separate sheet.)

10.9 The following information shall be provided for this project:

(a) Estimated total construction manhours _____

(b) Percent manhours to be performed by Contractor's permanent staff _____

(c) Percent manhours to be performed by direct hire employees _____

(d) Percent manhours to be performed by Subcontractors _____

11. Equipment

11.0 What equipment do you own that is available for the proposed work?

_____

_____

_____

11.1 What equipment will you rent for the proposed work?

_____

_____

11.2 What equipment will you purchase for the proposed work?

_____

_____

12. Conflict Of Interest

For purposes of determining any possible conflicts of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business.

Indicate either "yes" (a City employee is also associated with your business), or "no". If yes, give person(s) names and position(s) with your business.

Yes _____ Name(s) and Position(s) _____

No _____

(Note: If answer is "yes", you must file a statement with the supervisor of Elections, pursuant to Florida Statutes 112.313).

13. If the BIDDER is:

An Individual

By

_____(SEAL)

(Individual's Name)

doing business as

_____

Business address:

_____

_____

Phone No.:

_____

A Partnership

By

_____(SEAL)

(Firm Name)

_____

(General Partner)

Business address:

_____

Phone No.:

_____

A Corporation

By

_____

(Corporation Name)

_____

(State of Incorporation)

By

_____

(Name of Person Authorized to sign)

_____

(Title)

(Corporate Seal)

Attest

_____

(Secretary)

Business address:

_____

_____

Phone No.: _____

A Joint Venture

By

_____

(Name)

_____

(Address)

By

_____

(Name)

_____

(Address)

(Each joint venturer must sign. The name for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

END OF SECTION

STATEMENT UNDER SECTION 287.087
FLORIDA STATUTES, ON DRUG-FREE WORKPLACE

TO BE RETURNED WITH BID

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Florida Statutes, Section 287.087. This requirement affects all public entities of the State and becomes effective January 1, 1991.

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that his firm complies with the above requirements.

_____ _____
CONTRACTOR'S SIGNATURE CONTRACTOR'S PRINTED NAME

Date: _____

BID BOND

STATE OF FLORIDA)
ss
)

KNOW ALL MEN BY THESE PRESENTS, that we , _____

_____ as principal, and

_____

hereinafter called Surety, are held and firmly bound unto The City of Pompano Beach, Pompano Beach, Florida, a political subdivision of the State of Florida, and represented by its City Commission hereinafter called OWNER, in the sum of _____ Dollars ($ _____) lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigned, jointly and severally, by these presents.

WHEREAS, the Principal contemplates submitting or has submitted a Bid to the OWNER for the furnishing of all labor, materials, equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the Proposal and the detailed Drawings and Specifications, entitled:

(Bid Name) _____

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check or bid bond in the amount of 5 percent of the base bid be submitted with said bid as a guarantee that the Bidder would, if awarded the Contract, enter into a written Contract with the OWNER for the performance of said Contract, within 10 consecutive calendar days after written notice having been given of the award of the Contract.

NOW, THEREFORE, the conditions of this obligation are such that is the Principal within 10 consecutive calendar days after written notice of such award being given to Principal, enters into the contract to such award and gives a Performance and Payment Bond, each in an amount equal to 100 percent of the base bid, satisfactory to the OWNER, then this obligation shall be void; in the event of the failure of Principal to enter into such contract and bond, the sum herein stated shall be due and payable to the OWNER and the Surety herein agrees to pay the sum immediately upon demand of the OWNER in good and lawful money of the United States of America, as liquidated damages for failure thereof of said Principal; otherwise, it shall remain in full force and effect.

IN WITNESS WHEREOF, the said _____,

as Principal herein, has caused these presents to be signed in the name by its _____

_____ and attested by its _____ under its corporate seal,

and the said _____

_____ as Surety herein, has caused these presents to be signed in its name by

its _____

under its corporate seal, this _____ day of _____ A.D. _____ (year)

Signed, sealed and delivered in
the presence of:

_____
Principal -

By: _____

_____

_____
As to Principal

_____

Surety
By:_____
Attorney-in-Fact
(Power-of-Attorney to be attached)

_____

_____

By: _____
Resident Agent

END OF SECTION

SAMPLE AGREEMENT

THIS AGREEMENT is dated as of the _____ day of _____ in the year _____ by and between CITY OF POMPANO BEACH, FLORIDA (hereinafter call OWNER) and _____ (hereinafter called CONTRACTOR).

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1. **WORK**

The project consist of the furnishing of all labor, equipment and materials for:
_____
_____
_____
_____
_____
_____

The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows: (Bid Name)_____.

Article 2. ENGINEER

The Project has been designed by _____ who is hereinafter called ENGINEER and who is to act as OWNER'S representative, assume all duties and responsibilities and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

Article 3. CONTRACT TIME

The Work will be substantially completed within _____ days from the date the Contract Time commences to run as provided in the GENERAL CONDITIONS, and completed and ready for final payment in accordance with the GENERAL CONDITIONS within _____ days from the date the Contract Time commences to run.

Article 4. LIQUIDATED DAMAGES

OWNER and CONTRACTOR recognize that time is of the essence of the Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in Article 3, above, plus any extensions thereof allowed in accordance with the GENERAL CONDITIONS. They also recognize the delays, expense and difficulties involved in the proving in a legal or arbitration proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER two hundred and 00/100 dollars ($200.00) for each day that expires after the time specified in Article 3 for Substantial Completion, plus any monies paid by the

OWNER to the ENGINEER for additional engineering and inspection services until the Work is substantially complete. After Substantial Completion if CONTRACTOR shall neglect, refuse or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay the OWNER one hundred and 00/100 ($100.00) for each day that expires after the time specified in Article 3 for completion of Work and readiness for final payment, plus any monies paid by the OWNER to the ENGINEER for additional engineering and inspection services.

Article 5. CONTRACT PRICE

OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents in current funds as follows:

See BID PROPOSAL attached from bid/contract documents.

Article 6. PAYMENT PROCEDURES

6.1 CONTRACTOR shall submit Applications for Payment in accordance with the GENERAL CONDITIONS. Applications for Payment will be processed by ENGINEER as provided in the GENERAL CONDITIONS.

6.2 Progress Payments. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR'S Applications for Payment as recommended by ENGINEER, on or about the 1st day of each month during construction as provided below. All progress payments will be on the basis of the progress of the Work measured by the schedule of values established in the GENERAL CONDITIONS (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements.

6.2.1 Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and such amounts as ENGINEER shall determine, or OWNER may withhold, accordance with the GENERAL CONDITIONS.

10% of Work completed will be withheld by OWNER as retainage.

6.2.2 Upon Substantial Completion, in an amount sufficient to increase total payments to CONTRACTOR to 90% of the Contract Price, less such amounts as ENGINEER shall determine, or OWNER may withhold, in accordance with the GENERAL CONDITIONS.

6.3 Final Payment. Upon final completion and acceptance of the Work in accordance with the GENERAL CONDITIONS, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said GENERAL CONDITIONS.

Article 7. CONTRACTOR'S REPRESENTATIONS

In order to induce OWNER to enter into this Agreement, CONTRACTOR makes the following representations:

7.1 CONTRACTOR has familiarized itself with the nature and extent of the Contract documents,

Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

7.2 CONTRACTOR has studied carefully all reports of explorations and tests of subsurface conditions and drawings of physical conditions which are identified in the bid, and accepts the determination set forth in the bid of the extent of the technical data contained in such reports and Drawings upon which CONTRACTOR is entitled to reply.

7.3 CONTRACTOR has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, reports and studies in addition to or to supplement physical conditions at or contiguous to the site or otherwise may affect the cost, progress, performance or furnishing of the Work as CONTRACTOR considers necessary for the performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with other terms and conditions of the Contract Documents, including specifically the provisions of the GENERAL CONDITIONS; and no additional examinations, investigations, explorations, tests, reports, studies or similar information or data are or will be required by CONTRACTOR for such purposes.

7.4 CONTRACTOR has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, or investigations, explorations, tests, reports, studies or similar information or data in respect of said Underground Facilities are or will be required by CONTRACTOR in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents.

7.5 CONTRACTOR has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

7.6 CONTRACTOR has given ENGINEER written notice of all conflicts, errors or discrepancies that he has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.

Article 8. CONTRACT DOCUMENTS

The Contract Documents which comprise the entire agreement between OWNER and CONTRACTOR concerning the Work consist of the following:

8.1 This Agreement.

8.2 Exhibits to this Agreement.

8.3 Performance and other Bonds, identified as exhibits Performance and Payment Bond.

8.4 Notice of Award.

8.5 GENERAL CONDITIONS.

8.6 SUPPLEMENTARY CONDITIONS.

8.7 Specifications bearing the title (Bid Name _____ consisting of (# of sections ____) and (_____)pages, as listed in table of contents thereof.

8.8 Drawings, consisting of a cover sheet and sheets numbered (___) through (____) inclusive with each sheet bearing the following general title:

(Bid Name)_____

8.9 Addenda numbers _____ to _____, inclusive.

8.10 Contractor's Bid pages.

8.11 Contractor's Sworn Statement on Drug-Free Workplace Section 287.087, Florida Statutes, on Drug-Free Workplace and consisting of one (1) page.

8.12 Documentation submitted by CONTRACTOR prior to Notice of Award (Pages _____ to _____, inclusive).

8.13 The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto: All Written Amendments and other documents amending, modifying, or supplementing the Contract Documents pursuant to the GENERAL CONDITIONS.

8.14 The documents listed in paragraphs 8.2 et seq. above are attached to this Agreement (except as expressly noted otherwise above). There are no Contract Documents other than those listed above in the Article 8.

8.15 The insurance certificate detailing terms and provisions of coverage as required by the bid and approved by the City of Pompano Beach Risk Manager.

The Contract Documents may only be amended, modified or supplemented as provided in the GENERAL CONDITIONS.

Article 9. MISCELLANEOUS

9.1 Terms used in this Agreement which are defined in the GENERAL CONDITIONS will have the meanings indicated in the GENERAL CONDITIONS.

9.2 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction my be limited by law), and unless specifically stated to the Contrary in any written consent to an assignment no

assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

9.3 OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

Witnesses:

CITY OF POMPANO BEACH

_____

By: _____
Lamar Fisher, Mayor

_____

By: _____
Dennis W. Beach, City Manager

Attest:

_____
Asceleta Hammond, City Clerk

(SEAL)

Approved as to form:

_____
Gordon B. Linn, City Attorney

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this _____ day of _____, 20___ by **LAMAR FISHER**, as Mayor, **DENNIS W. BEACH** as City Manager and **ASCELETA HAMMOND**, as City Clerk of the City of Pompano Beach, Florida, a municipal corporation, on behalf of the municipal corporation, who are personally known to me.

NOTARY'S SEAL:

_____
NOTARY PUBLIC, STATE OF FLORIDA

_____
(Name of Acknowledger Typed, Printed or Stamped)

_____
Commission Number

CONTRACTOR

_____
(Print name of company

Witnesses:

By:_____

_____

Print Name:_____

_____

Title:_____

ACKNOWLEDGMENT OF CONTRACTOR, IF AN INDIVIDUAL

STATE OF }
} ss:
COUNTY OF }

On this _____ day of _____, _____, before me personally came and appeared _____, to me known to me to be the person described in and who executed the foregoing contract and acknowledged that he executed the same.

Witness my hand and official notarial seal at _____ _____ the day and year above written.

_____
Notary Public

My Commission Expires: _____

ACKNOWLEDGMENT OF CONTRACTOR, IF A PARTNERSHIP

STATE OF }
} ss:
COUNTY OF }

On this _____ day of _____, _____, before me personally came and appeared _____, known to me to be one of the members of the partnership of _____ _____ described in and who executed the foregoing instrument and he acknowledged that he executed the same on behalf of said partnership and that same is the act and deed of said partnership.

Witness my hand and official notarial seal at _____ _____ the day and year above written.

_____
Notary Public

My Commission Expires: _____

ACKNOWLEDGMENT OF CONTRACTOR, IF A CORPORATION

STATE OF }
} ss:
COUNTY OF }

On this _____ day of _____, _____, before me personally came and appeared _____, to me known, who, being by me duly sworn, did depose and say that he resides at _____ _____, that he is the _____ of _____, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that one of the impressions affixed to said instrument is an impression of such seal; that he is the proper official of said corporation designated to execute such contract, that he has authority so to do, that he executed same for and in behalf of said corporation, and this his act is the act and deed of said corporation.

Witness my hand and official notarial seal at _____ _____ the day and year above written.

_____
Notary Public

My Commission Expires: _____

General Conditions of the Contract

ARTICLE 1. DEFINITIONS.

1.01 **The Contract Documents:** The Contract Documents consist of the Agreement Form, Addenda, Supplementary Conditions, General Conditions, Documents contained in the Project Manual, Drawings, Plans, Specifications, and all modifications issued after execution of the Contract.

1.02 **The Owner, the Contractor, and the Project Consultant:** are those mentioned as such in the Contract Documents.

1.02.01 **Owner**: The City of Pompano Beach, Florida, (also referred to as the "City").

1.02.02 **Contractor**: The "party of the second part" to the Contract. The person, firm or corporation with whom a contract has been made with the Owner for the performance of the Work defined by the Contract Documents.

1.02.03 **Project Consultant:** The individual, partnership, corporation, association, joint venture, or any combination thereof, of properly registered professional architects, engineers or other design professionals who has entered into a contract with the Owner to provide professional services for development of the design and Contract Documents for the Work of this Project and provide Construction Contract Administration as described in the Contract Documents.

1.03 **City Engineer:** City Engineer of the City of Pompano Beach, Florida.

1.04 **Final Completion**: Means that date subsequent to the date of Substantial Completion at which time the Contractor has completed all of the Work (or designated portion thereof) in accordance with the Contract Documents as certified by the Project Consultant and/or approved by the Owner. In addition, Final Completion shall not be deemed to have occurred until any and all governmental bodies, boards, entities, etc., which regulate or have jurisdiction of the Work, have inspected, approved and certified the Work.

1.06 **Inspector:** An employee(s) of The City of Pompano Beach, Florida, referred to hereinafter as the "**Inspector,**" who(m) is/are assigned by the City Engineer to periodically inspect the Project during the construction process, and who assist(s) the City Engineer in reviewing field performance and its compliance with the Contract Documents.

1.06.01 **Resident Inspector:** An employee or subconsultant of the **Project Consultant** employed to perform either periodic or full-time specific inspection duties.

1.07 **Other Contractors**: Any person, firm or corporation with whom a Contract has been made by the Owner for the performance of any work on the site, which work is not a portion of the Work covered by the Contract.

1.08 **Owner's Representative**: The City Official who has been delegated responsibility by the City Manager to act as the City's project coordinator. (In most cases, the City Engineer shall be assigned this duty.)

1.09 **Phase**: A designated subdivision of the Work, usually with its own requirements for Substantial and Final Completion, and liquidated damages. A Phase may be designated for completion by the Owner's own forces, or by Other Contractors.

1.10 **The Project**: The total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner or by separate contractors.

1.11 **Punch List**: A list of items of work required to render complete, satisfactory, and acceptable the construction services provided for in the Contract Documents and created pursuant to Florida Statute 218.735(7)(a).

1.12 **Subcontractor**: A person or entity other than a materialman or laborer who enters into a Contract with Contractor for the performance of any part of Contractor's Work. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

1.13 **Sub-subcontractor**: A person or entity other than a materialman or laborer who enters into a contract with a Subcontractor for the performance of any part of such Subcontractor's contract. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor. The term "Sub-subcontractor" does not include separate subcontractors of a separate contractor.

1.14 **Submittals**: Are prepared by the Contractor or those working on his behalf (subcontractors, material suppliers, and others) to show how a particular aspect of the Work is to be fabricated and installed. The Contractor's submittals include shop drawings, product data, samples, mock-ups, test results, warranties, maintenance agreements, workmanship bonds, project photographs, record documents, field measurement data, operating and maintenance manuals, reports, certifications, periodic and final "as-builts", surveys, videos and other types of information described in the specifications.

1.15 **Substantial Completion**: The term Substantial Completion as used herein, shall mean that point at which, as certified in writing by the Project Consultant, the Work, or a designated portion thereof, is at a level of completion in substantial compliance with the Contract Documents such that the Owner or its designee can enjoy use or occupancy and can use or operate it in all respects for its intended purpose. In the event the Work includes more than one Phase, the Owner, at its discretion, may set Substantial Completion dates for each Phase and may impose provisions for liquidated damages for each Phase.

1.16 **Subconsultant:** A person or organization of properly registered professional architects, engineers or other design professionals who has entered an agreement with the Project Consultant to furnish professional services in support of the Project Consultants agreement with the Owner.

1.17 **Superintendent**: The executive representative for the Contractor present on the work at all times during progress, authorized to receive and fulfill instructions from the Owner and the Project Consultant and capable of superintending the work efficiently.

1.18 **Work**: The totality of the obligations, including construction and other services, imposed on the Contractor by the Contract Documents, whether completed or partially completed, and including all labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

1.19 **Written Notice**: Shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, if delivered at or sent by registered mail or other traceable delivery service to the last business address known to him who gives notice. Electronic, FAX or other telephonic transmission shall not be considered as written notice.

ARTICLE 2. THE WORK.

2.01 The Contractor shall perform all of the Work required by the Contract Documents and shall provide materials, supplies, tools, equipment, labor and services directly related to the Work, and shall perform the Work in a good and workmanlike manner with sufficient manpower to perform the Work in accordance with the time requirements set forth in the Contract Documents, and shall perform all other acts and supply all other things necessary to complete the Work in strict accordance with the Contract Documents.

2.02 When completed the Work shall conform to the requirements of the Contract Documents and be completely ready for occupancy and finally completed.

2.03 The Contractor represents and warrants to the Owner that:

2.03.01 It is financially solvent and has sufficient working capital to perform the obligations under this Construction Contract;

2.03.02 It is experienced and skilled in the construction of the type of project described in the Contract Document;

2.03.03 It is able to provide the labor, materials, equipment and machinery necessary to complete the Work for the agreed upon price;

2.03.04 It is fully licensed under all applicable laws and authorized to do business in the State of Florida in the name of the entity identified as the "Contractor" in the Construction Contract, and is legally permitted to perform all the work set forth in this Construction Contract.

2.03.05 It has visited the jobsite and examined its nature and location, including without limitation: the surface conditions of the site and any structure or obstruction both natural or man-made; the surface water conditions and water ways of the site and surrounding area; the subsurface conditions of the land as disclosed by soil test borings; and the location of electric and utility lines and water, sanitary, sewer and storm drain lines, as well as site ingress and egress. The Contractor acknowledges receipt and has reviewed the site geotechnical report provided for the Owner.

2.03.06 It will comply with all federal, state and local governmental laws, rules and regulations relating to its responsibilities as set forth in the Contract Documents.

ARTICLE 3. COORDINATION AND CORRELATION OF DRAWINGS AND SPECIFICATIONS.

3.01 The Contractor represents that:

3.01.01 The Contractor and Subcontractors have fully examined and compared all Drawings, Specifications and other Contract Documents including but not limited to those relating to the architectural, structural, mechanical, electrical, civil engineering and plumbing elements and have compared and reviewed all general and specific details on the Drawings and the various technical and administrative requirements of the Specifications.

3.01.02 All construction materials, labor, methods, means, techniques, sequences and procedures required to carry out the Work, all safety precautions and programs required in connection with carrying out the Work, all conflicts, discrepancies, errors and omissions that Contractor is aware of as a result of the examination and comparison of the Contract Documents have been either corrected or clarified to the satisfaction of the Contractor prior to execution of this Construction Contract.

3.01.03 The Contract Sum is reasonable compensation and represents the total lump sum cost for the Work and that all systems and Work shall be functional and in accordance with the requirements of the Contract Documents.

3.01.04 The Contract Time is adequate for the performance of the Work.

3.02 The Contractor is responsible for all means, methods, techniques and sequencing of construction.

3.03 If, after execution of this Construction Contract, the Contractor detects a conflict, discrepancy, error or omission in the Contract Documents then it shall immediately notify Project Consultant and Owner prior to proceeding with the specific portion of the Work.

ARTICLE 4. INTENT AND INTERPRETATION.

4.01 With the respect to the intent and interpretation of this Contract, the Owner and the Contractor agree as follows:

4.01.01 The Contractor shall have a continuing duty to read, examine, review, compare and contrast each of the documents which make up this Contract and shall immediately give written notice to the Owner and the Project

Consultant of any conflict, ambiguity, error or omission which the Contractor may find with respect to these documents before proceeding with the affected Work.

4.01.02 The Contract Documents are complementary, and what is called for by one shall be as binding as if called for by all.

4.01.03 The intent of the Contract Documents is to include all labor, materials, equipment services and transportation necessary for the proper execution of the Work. The Contractor shall continually refer to drawing, specifications and other Contract Documents in this regard.

4.01.04 In the event of a conflict among the Contract Documents, the most stringent requirement to the Contractor shall control.

4.02 The Project Consultant shall be the initial interpreter of the requirements of the Contract Documents and the judge of the performance thereunder.

4.02.01 The Project Consultant shall render interpretations necessary for the proper execution or progress of the Work with reasonable promptness on written request of either the Owner or the Contractor, and shall render written decisions, within a reasonable time, on all claims, disputes, change order requests, substitution requests, requests for interpretation and other matters in question between the Owner and the Contractor relating to the execution or progress of the Work or the interpretation of the Contract Documents.

4.02.02 Interpretations and decisions of the Project Consultant shall be consistent with the intent of and reasonably inferable from the Contract Documents.

4.02.03 In the capacity of interpreter the Project Consultant shall endeavor to secure faithful performance by both the Owner and the Contractor, and shall not show partiality to either.

ARTICLE 5. OWNERSHIP OF THE CONTRACT DOCUMENTS WHICH MAKE UP THE CONTRACT

5.01 Subject to any rights the Project Consultant may have, the Contract Documents and each of them, as well as any other documents, intellectual property, software, computer-assisted material or disks relating to or regarding the Work, shall be and remain the property of the Owner. This shall be the case even if prepared, created or provided by the Project Consultant, Contractor, Subcontractor or others.

5.02 The Contractor shall have the right to keep copies of same upon completion of the Work; provided, however, that in no event shall the Contractor use, or permit to be used, any portion or all of same on other projects without the Owner's prior written authorization.

5.03 The Contractor agrees to provide any and all items referred to in this Paragraph to Owner upon demand by Owner. In the event Contractor fails to provide same to Owner as demanded, Contractor acknowledges that the Owner will need same and will be irreparably harmed and be subject to an injunction to provide same.

ARTICLE 6. TEMPORARY UTILITIES.

6.01 Water For Execution of the Work: The Contractor shall provide temporary water lines sufficient to supply all water needed for the construction and other services required by the Contract Documents and shall pay for all service connections and water used by the Contractor or Subcontractors unless the contrary is provided for elsewhere in the Contract Documents.

6.02 Electrical Energy: The Contractor shall provide temporary electrical energy and power lines sufficient to supply all electricity needed for the construction and other services required by the Contract Documents and shall pay for all service connections and electricity used by the Contractor or Subcontractors unless the contrary is provided for elsewhere in the Contract Documents.

6.03 Temporary Sanitary Facilities And Sewers:

6.03.01 The Contractor shall provide and maintain in a neat and sanitary condition such accommodations and facilities for the use of his employees as may be necessary to comply with the regulations of any governmental agencies, departments, etc. which address or govern these issues.

6.03.02 No nuisance will be permitted.

6.03.03 Upon completion of Work, such facilities shall be removed and the premises left in a sanitary condition.

6.03.04 Contractor is not permitted to use restrooms or other sanitary facilities within the Owner's existing building or on-site facilities unless the contrary is provided for elsewhere in the Contract Documents.

ARTICLE 7. PROGRESS.

7.01 Contractor shall provide the Owner with full information in advance as to its plans for performing each part of the Work. This shall include, but not be limited to, schedules provided to the Owner as Post-Award Information and subsequently updated schedules submitted to the Owner on a monthly basis as required in Article 10 below, as a condition precedent to payment(s).

7.01.01 Such schedule shall be in a form acceptable to the Owner.

7.01.02 The Contractor's schedule shall be updated no less frequently than monthly (unless the parties otherwise agree in writing) and shall be updated to reflect conditions encountered from time to time and shall apply to the total Project.

7.01.03 Each such revision shall be provided to the Owner and the Project Consultant.

7.01.04 Compliance with the requirements of this Subparagraph shall be a condition precedent to payment to the Contractor, and failure by the Contractor to comply with said requirements shall constitute a material breach of this Contract.

7.01.05 By providing these Schedules to Owner, Owner does not in any way acknowledge or consent that the Schedules are acceptable or reasonable, but it is simply reviewing same for its own informational purposes.

7.02 If at any time during the progress of Work, the Contractor's actual progress is inadequate to meet the requirements of the Contract Documents, such as the required completion dates, the Owner may so notify Contractor who shall thereupon take such steps as may be necessary to improve its progress so as to complete the Work on or before the required Substantial Completion Date.

7.02.01 If within a reasonable period as determined by Owner, the Contractor does not improve performance to meet the requirements of the Contract Documents, such as the required completion dates, then the Owner may require an increase in any or all of the following: Contractor's Subcontractor crews and Contractor's own labor force, the number of shifts, overtime operation, Contractor's supervision and additional days of work per week, all without cost to Owner.

7.02.02 Neither such notice by Owner nor Owner's failure to issue such notice shall relieve Contractor of its obligation to achieve the quality of work and rate of progress required by the Contract Documents.

7.03 Failure of Contractor to comply with the instructions of the Owner may be grounds for determination by Owner that Contractor is not prosecuting its Work with such diligence as will assure completion within the time specified.

7.04 Upon such determination, Owner, in addition to any and all other rights set forth in the Contract Documents and remedies afforded Owner under the Contract Documents or at law, may:

7.04.01 Elect to proceed with the Work with its own employees, agents, contractors, subcontractors, suppliers and assess all costs, expenses or fees for same against contractors and/or

7.04.02 Terminate for cause Contractor's right to proceed with the performance pursuant to the Contract Documents, or any separable part thereof, in accordance with the applicable provisions of the Contract Documents.

ARTICLE 8. EXPEDITING

8.01 The Work, equipment and material provided under this Contract may be subject to expediting by Owner.

8.02 Owner shall be allowed reasonable access to the shops, factories and other places of business of the Contractor and/or Subcontractors for expediting purposes.

8.03 As required by Owner, Contractor shall supply schedules and progress reports for Owner's use in expediting, and Contractor shall cooperate with Owner and require Subcontractors to cooperate with Owner in such expediting.

8.04 Any expediting performance by Owner shall not relieve Contractor of its sole and primary responsibility for timeliness of delivery of the equipment and material to be provided under the Contract Document.

ARTICLE 9. COMPLETION

9.01 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Project Consultant a comprehensive Punch List of items to be completed or corrected prior to final payment. Failure to include an item on the Punch List does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

9.01.01 For a Project with an estimated cost of less than $10 million, the Punch List shall be completed within thirty (30) calendar days after Substantial Completion of the Project, as same is defined in the Contract Documents. If Substantial Completion is not defined in the Contract Documents, the list shall be completed upon reaching beneficial occupancy or use.

9.01.02 For a Project with an estimated cost of $10 million or more, the Punch List shall be completed within thirty (30) calendar days, unless otherwise extended elsewhere in the Contract Documents, but not to exceed sixty (60) calendar days, after reaching Substantial Completion, as same is defined in the Contract Documents. If Substantial Completion is not defined in the Contract Documents, the list shall be completed upon reaching beneficial occupancy or use.

9.02 For a Project involving the construction of more than one building or structure, or involving a multiphased project, a Punch List shall be created for each building, structure, or phase of the Project pursuant to the limitations provided for above in 9.01.01 and 9.01.02, as applicable.

9.03 The failure to include any corrective work or pending items not yet completed on the List does not alter the responsibility of the Contractor to complete all the construction services purchased pursuant to the contract. All items that require correction under the Contract Documents and that are identified after the preparation and delivery of the Punch List remain the obligation of the Contractor as defined by the Contract Documents.

9.04 Upon completion of all of the items on the Punch List, the Contractor may submit a payment request for all remaining retainage withheld by the local governmental entity pursuant to this section. If a good faith dispute exists as to whether one or more items identified on the list have been completed pursuant to the Contract Documents, the Owner may continue to withhold an amount not to exceed 150 percent of the total costs to complete the outstanding item.

9.05 In the event that the Contractor fails, in whole or in part, to comply with the obligations and responsibilities required hereunder in paragraph 9.01, the Owner need not pay or process any payment request for remaining retainage.

ARTICLE 10. CONTRACT PAYMENTS

10.01 Schedule of Values:

10.01.01 The Contractor shall maintain and update the Schedule of Values originally provided to the Owner as Post-Award Information.

10.01.02 The Contractor's Schedule of Values apportions the Contract Price among the different elements of the required Work for purposes of periodic and final payments and shall be submitted as detail in support of the Contractor's monthly Application for Payment.

10.01.03 The Schedule of values shall be presented with such detail, and supported with whatever information the Project Consultant or the Owner reasonably requests.

10.01.04 The Contractor shall not imbalance its Schedule of Values nor artificially inflate or exaggerate any element thereof. Contractor's failure to comply with this provision shall be grounds for Owner to terminate Contractor, as provided for elsewhere herein.

10.02 The Owner shall pay the Contract Price to the Contractor in accordance with the procedures provided herein.

10.02.01 On or before the **15th** day of each month after commencement of performance, but no more frequently than once monthly, the Contractor may submit an Application for Payment to the Owner for the period ending the last day of the previous month or other pay period as mutually defined and agreed to by the Contractor and Owner and as provided for in the Contract Documents. The Contractor shall also deliver a copy of the Application for Payment to the Project Consultant.

10.02.02 Said Application for Payment shall be in the format required elsewhere in the Contract Documents and include whatever supporting information as may be required by the Project Consultant, the Owner, or both.

10.02.03 The Owner shall not be required to pay for stored materials or equipment except as set forth in Article 25 below.

10.02.04 Each Application for Payment shall be signed by the Contractor and shall constitute the Contractor's representation that the quantity of work has reached the level for which payment is requested, that the Work has been properly installed or performed in substantial compliance with the requirements of the Contract Documents, and that the Contractor knows of no reason why payment should not be made as requested.

10.02.05 Upon receipt of the Application for Payment, the Project Consultant shall:

a. Within ten (10) days review the Application for Payment and may also review the Work at the Project site or elsewhere to determine whether the quantity and quality of the Work is as represented in the Application for Payment and is as required by the Contract Documents.

b. Approve in writing the amount which, in the opinion of the Project Consultant, is properly owing to the Contractor.

10.02.06 The Owner shall make payment to the Contractor within fifteen (15) days following the Project Consultant's written approval of the Application for Payment but in no event later than twenty-five (25) days after the invoice was received by the Owner.

10.02.07 The Owner may reject the Application for Payment within twenty (20) business days after the date on which the Application for Payment is stamped as received. The rejection shall be in writing and shall specify the deficiency in the payment request or invoice and the action necessary to make the payment request or invoice proper.

10.02.08 If the Owner disputes a portion of an Application for Payment, the undisputed portion must be timely paid.

10.02.09 The Contractor may submit a corrected Application for Payment which corrects the deficiency or deficiencies specified in writing by the Owner. The Owner shall either pay or reject the corrected Application for Payment within ten (10) business days after receipt of same.

10.02.10 If a dispute regarding the Application for Payment cannot be resolved pursuant to the process outlined herein, it must be resolved in accordance with the dispute resolution procedures outlined in Article 45.

10.02.11 The amount of each monthly payment shall be the amount approved for payment by the Project Consultant less such amounts, if any, otherwise owing by the Contractor to the Owner or which the Owner shall have the right to withhold as authorized by the Contract Documents or reasonable business practices. In the event of a dispute with regard to a portion of the Application for Payment, the Owner shall pay the undisputed portion pursuant to the timeline established in this Section.

10.02.12 The Project Consultant's approval of the Contractor's Applications for Payment shall not preclude the Owner from the exercise of any of its rights as set forth in the Contract Documents.

10.02.13 The submission by the Contractor of an Application for Payment also constitutes an affirmative representation and warranty that all Work for which the Owner has previously paid is free and clear of any lien, claim, or other encumbrance by any person whatsoever.

10.02.14 As a condition precedent to payment, the Contractor shall, as required elsewhere in the Contract Documents and as required by the Owner, also provide to the Owner documents relating to the Project, including but not limited to, updated schedules and daily logs, properly executed documents that all subcontractors, materialmen, suppliers or others having rights, acknowledge receipt of all sums due pursuant to all prior Payment Requests and waive and relinquish any rights or other claims of any nature relating to the Project.

10.02.15 Furthermore, the Contractor warrants and represent that, upon payment of the Application for Payment submitted, title to all work included in such payment shall be vested in the Owner.

10.02.16 Dollar Value/Time Graphs: Each of the Contractor's Application for Payment shall be accompanied by a graph, prepared by the Contractor, that consecutively tracks the percentage of completion of both the Application for Payment's dollar value attained and the contract time (calendar days) elapsed, all coinciding with the date of the Application for Payment.

10.03 When payment is received from the Owner, the Contractor shall within five (5) days pay all subcontractors, materialmen, laborers and suppliers the amounts they are due for all work covered by such payment. In the event such payments are not made in a timely manner the Owner may, in its discretion, invoke reasonable procedures in order to protect Owner's interest or Owner's desire to assist in having subcontractors, laborers, suppliers, materialmen or others paid.

10.04 It is mutually agreed that payments made under this Contract shall not constitute acceptance of defective or improper materials or workmanship nor shall same act as a waiver or release of future performance in accordance with the Contract Documents.

ARTICLE 11. WITHHOLDING PAYMENT TO CONTRACTOR

11.01 The Owner may withhold as retainage ten (10) percent of the payment owed to the Contractor until fifty-percent (50%) completion of the Project. After fifty-percent (50%) completion is reached, the Owner will reduce the amount of retainage withheld from each subsequent progress payment to five percent.

11.01.01 Fifty-percent (50%) completion shall be defined in the Contract Documents. If not defined, fifty-percent (50%) completion shall be the point at which the Owner has expended fifty-percent (50%) of the total cost of the construction services purchased with all costs associated with existing change orders and any other additions or modifications to the construction services provided for in the Contract Documents.

11.01.02 After fifty-percent (50%) completion of the Project, the Contractor may present to the Owner an Application for Payment of up to one-half of the retainage retained by the Owner prior to the fifty-percent completion date. The Owner shall promptly make such payment unless the Owner has grounds for withholding the payment retainage as provided herein.

11.02 If the City pays the retainage amount upon the Contractor's request which is attributable to the labor, services, or materials supplied by one or more contractors or suppliers, the Contractor shall timely remit payment of such retainage to those subcontractors or suppliers.

11.03 Regardless of the provisions in this Article, in no event shall the Owner be required to pay or release any amounts that are the subject of a good faith dispute, a claim brought pursuant to Fla. Stat. § 255.05, or otherwise the subject of a claim or demand by the Owner.

11.04 In addition to the Retainage, payments, including but not limited to Final Payment, may be withheld or reduced by the Owner in its sole discretion if any of the following exists:

11.04.01 The Work is not proceeding in accordance with the Construction Documents Schedule as anticipated by the Project Consultant or the Owner. In that event, the Project Consultant or the Owner will assess the anticipated delay and the Owner will use the amounts specified for Liquidated Damages as the basis for amounts withheld. Said funds shall be held until such time as the Project Consultant or Owner determine that the Work is back on schedule. By making said funds available to Contractor, Owner does not waive its right to assess liquidated damages at the completion of the Project;

11.04.02 Liquidated Damages as set forth in this Contract;

11.04.03 Defective Work unremedied;

11.04.04 Punch-List items unremedied;

11.04.05 Subject to Owner's written notice to Contractor in accordance with the Contract Documents back charge items for work performed by Owner or another contractor at the request of Owner, which work is within the scope of the Work under this Construction Contract;

11.04.06 Claims filed by subcontractors, laborers, suppliers, materialmen or others;

11.04.07 Failure to comply with any and all insurance requirements;

11.04.08 Failure of the Contractor to make payment properly to Subcontractors or others;

11.04.09 Damage to the Owner or another contractor;

11.04.10 Reasonable evidence that the Work will not be completed on or before the Substantial Completion or Final Completion Date;

11.04.11 Failure of the Contractor to carry out any of its obligations in accordance with the Contract Documents;

11.04.12 Failure of the Contractor to submit the information or documents required by this Contract or reasonably required by Owner, including but not limited to schedules and daily logs.

ARTICLE 12. CONTRACTOR'S RIGHT UPON NONPAYMENT.

12.01 If within thirty (30) days of the date payment to the Contractor is due, the Owner, without cause or basis hereunder, fails to pay the Contractor any amounts then due and payable to the Contractor, the Contractor shall have the right to cease work until receipt of proper payment after first providing ten (10) days written notice of its intent to cease work to the Owner.

ARTICLE 13. INFORMATION AND MATERIAL SUPPLIED BY THE OWNER.

13.01 The Owner shall furnish to the Contractor, prior to the execution of the Contract, any and all written and tangible material, including but not limited to surveys and other information concerning existing conditions on the Site.

13.02 The Owner shall also furnish, if appropriate, the legal description of the Project site, and any required survey.

ARTICLE 14. LICENSES AND PERMITS.

14.01 All licenses and permits necessary to commence and prosecute the Work to completion shall be procured and paid for by the Contractor, unless expressly provided for elsewhere in the Contract Documents.

14.03 All easements and rights-of-way will be procured and paid for by the Owner unless otherwise specifically provided within the Contract Documents.

ARTICLE 15. CEASE AND DESIST ORDER.

15.01 In the event the Contractor fails or refuses to perform the Work as required herein, the Owner may instruct the Contractor to cease and desist from performing the Work in whole or in part. Upon receipt of such instruction, the Contractor shall immediately cease and desist as instructed by the Owner and shall not proceed further until the cause for the Owner's instructions has been corrected and the Owner instructs that the Work may resume.

15.02 In the event the Owner issues such instruction to cease and desist, and in the further event the Contractor fails and refuses within seven (7) days of receipt of same to provide adequate assurance to the Owner that the cause of such instructions will be eliminated or corrected, then the Owner shall have the right, but not the obligation, to carry out the Work with its own forces, or with the forces of another contractor, and the Contractor shall be fully responsible and liable for the costs of performing such work by the Owner.

15.03 The rights set forth herein are in addition to, and without prejudice to, any other rights or remedies the Owner may have against the Contractor.

ARTICLE 16. DUTIES, OBLIGATIONS AND RESPONSIBILITIES OF THE CONTRACTOR.

16.01 The Contractor shall perform the Work in accordance with the Contract Documents.

16.02 The Contractor shall supervise the Work and bear full responsibility for any and all acts or omissions of those engaged in the Work on behalf of the Contractor.

16.03 The Contractor hereby warrants that all labor provided under this Contract shall be competent to perform the tasks undertaken, that the product of such labor shall yield only first-class results, that all material and equipment provided shall be new and of high quality, that the Work will be complete, of high quality, without defects, and in compliance with the requirements of the Contract Documents. Any Work not complying with the requirements of this Subparagraph shall constitute a breach of the Contractor's warranty.

16.04 Unless expressly provided for elsewhere in the Contract Documents, the Contractor shall obtain and pay for all required permits, fees, and licenses and shall comply with all legal requirements applicable to the Work.

16.05 The Contractor shall prepare and submit schedules and supporting documentation as required elsewhere in the Contract Documents.

16.06 Record Keeping on Site:

16.06.01 The Contractor shall keep a daily log, an updated copy of the Contract Documents, approved shop drawings and other submittals, and other documents and materials as required by the Contract Documents at the site.

16.06.02 All of these items shall be available to the Owner and the Project Consultant at all regular business hours.

16.06.03 Upon final completion of the Work, all of these items shall be finally updated and provided to the Owner and shall become the property of the Owner.

16.07 Shop Drawings And Other Submittals:

16.07.01 The Contractor shall submit for approval with reasonable promptness and in a timely manner so as to cause no delay in the Work, various submittals including shop drawings as required for the Work of the various trades.

16.07.02 These shop drawings and other submittals shall be in accordance with the requirements of the Contract Documents and shall be carefully checked in every respect and signed by the Contractor before submitting same to the Project Consultant.

16.07.03 Shop drawings and other submittals from the Contractor are not part of the Contract Documents but are documents prepared and utilized by the Contractor to coordinate the Work.

16.07.04 The Contractor shall not do any Work requiring shop drawings or other submittals unless such have been approved in writing by the Project Consultant.

16.07.05 All Work requiring approved shop drawings or other submittal shall be done in compliance with such approved documents. However, approval by the Project Consultant or the Owner shall not be evidence that Work installed pursuant thereto conforms with the requirements of the Contract Documents.

16.07.06 The Owner and the Project Consultant shall have no duty to review partial submittal or incomplete submittal except as may be provided otherwise within the Contract Documents.

16.07.07 The Contractor shall maintain a submittal log which shall include, at a minimum, the date of each submittal, the date of any resubmittal, the date of any approval or rejection, and the reason for any approval or rejection.

16.07.08 The Contractor shall have the duty to carefully review, inspect and examine any and all submittal and resubmittals before submission of same to Owner or the Project Consultant.

16.08 The Contractor shall maintain the Project site in a reasonably clean condition during performance of the Work. Upon final completion, the Contractor shall thoroughly clean the Project site of debris, trash and excess materials or equipment. In the event the Project is located at or near occupied facilities, then Owner may establish additional rules and regulations regarding condition at the Project, including but not limited to, keeping the Project and the occupied premises clean, safe and secure.

16.09 At all times, the Contractor shall permit the Owner and the Project Consultant to enter upon the Project site and to review or inspect the Work.

ARTICLE 17. SUBCONTRACTS.

17.01 The Contract Documents make no attempt to fix the scope of the Work of any Subcontractor nor the responsibilities of any such Subcontractor, it being understood that the Contractor shall fix the scope of all Work and responsibilities of the Subcontractor. Contractor shall not replace Subcontractor without good cause.

17.02 The Contractor shall continuously update information concerning Subcontractors submitted to the Owner as Post-Award Information by submitting:

17.02.01 The general form of Subcontract Agreement used by the Contractor within thirty (30) days of execution of the Construction Contract.

17.02.02 Updated listings of Subcontractors denoting changes to the list submitted as Post-Award Information within ten (10) days of said change.

17.02.03 Copies of executed Subcontractor Contracts within ten (10) days of their execution.

17.02.04 A complete accounting of all payments made to Subcontractors and the balances owed to the Subcontractors with each Application For Payment submitted by the Contractor.

17.03 All contracts with Subcontractors shall incorporate by reference the terms and conditions of this Construction Contract.

17.04 The Contractor shall cause and require to be included in all Subcontracts a provision for the benefit of the Owner binding the Subcontractors to remain bound by the Subcontracts in the event the Contractor is replaced by another contractor pursuant to the terms of the Contract Documents. The Contractor shall also include in all Subcontracts a provision requiring the Subcontractor, in the event of the Contractor's termination, to consent to the assignment of their Subcontracts to the Owner.

17.05 The Owner may at any time request from the Subcontractors, or any of them, a sworn statement of account with the Contractor and the Contractor shall cause to be included in all Subcontracts a requirement that the Subcontractors provide said sworn statement upon Owner's request.

17.06 Each Subcontractor and supplier must agree to assign all of its warranties to Owner. In addition each Subcontractor and supplier must warrant all of its Work, equipment, materials and labor to Owner in accordance with the terms and provisions of its contractual obligations to Contractor and any legal or statutory provisions that apply to its work, materials or equipment.

17.07 Owner may at its discretion require Contractor to have major sub-subcontractors or suppliers comply with the requirements of this Article 16 or other provisions of the Contract Documents.

ARTICLE 18. CONTRACTOR'S SUPERINTENDENT

18.01 Before starting the Work, Contractor shall designate an English speaking, competent, authorized representative (hereinafter Superintendent), acceptable to the Owner, to represent and act for the Contractor. The Contractor shall:

18.01.01 Inform Owner, in writing, of the name and address of such representative together with a clear definition of the scope of his authority to represent and act for Contractor and shall specify any and all limitation on such authority.

18.01.02 Keep the Owner informed of any subsequent changes in the foregoing.

18.02 The Superintendent shall be present (or be temporarily represented by a person familiar with the project work activities and schedule) at the site of the Work at all times when the Work is actually in progress.

18.04 All notices, determinations, instructions and other communications given to the Contractor's Superintendent shall be binding upon the Contractor.

18.05 The Superintendent shall maintain a daily log/report which shall include at least the following information: weather conditions; trades at site; manpower totals by trade; heavy equipment in use; activities in progress; and inspections at site. Copies of the daily entries shall be provided to the Owner once per month, or as required elsewhere in the Contract Documents.

ARTICLE 19. COOPERATION WITH OTHERS.

19.01 The Owner and other contractors and subcontractors may be working at the site during the performance of the Construction Contract, and Contractor's work may be interfered with as a result of such concurrent activities. Contractor shall fully cooperate with Owner and other contractors to avoid any delay or hindrance of the Work. Owner may require that certain facilities be used concurrently by Contractor and other parties and Contractor shall comply with such requirements.

19.02 If any part of the Contractor's work depends on proper execution or results from any work performed by the Owner or any separate contractor, the Contractor shall, prior to proceeding with the Work, promptly report to the Owner any apparent discrepancies or defects in such work that render it unsuitable for such proper execution and results. Failure of the Contractor to so report shall constitute an acceptance of the Owner or separate contractor's work as fit and proper to receive Contractor's Work, except as to defects which may subsequently become apparent in such work performed by others.

ARTICLE 20. SITE CONDITIONS.

20.01 Contractor shall have the sole responsibility to conduct reasonable inspection of the site and to satisfy itself concerning the nature and location of the Work and the general and local conditions, and particularly, but without limitation, with respect to the following: those affecting transportation, access, disposal, handling and storage of material; availability and quality of labor, water and electric power; availability and condition of roads; climatic conditions; location of underground utilities as depicted in the Contract Documents; governmental processes and requirements for obtaining permits other than issuance of the original building permits, certificates of occupancy and other regulatory/utility approvals; physical conditions at the work sites and the Project area as a whole; topography and ground surface conditions; subsurface geology, and nature and quality of surface and subsurface materials to be encountered; equipment and facilities needed preliminary to and during performance of the Construction Contract; and all other matter which can in any way affect performance of the Construction Contract, or the cost associated with such performance.

20.02 The failure of Contractor to acquaint itself with any applicable condition will not relieve it from the responsibility for properly estimating either the duration, difficulties, or the costs of successfully performing the Work.

20.03 Contractor may reasonably rely upon site documentation provided by the Owner. In the event that during the course of the Work Contractor encounters an underground utility facility that was not shown on the Contract Documents; or subsurface or concealed conditions at the Project site which differ materially from those shown on the Contract Documents and from those ordinarily encountered and generally recognized as inherent in work of the character called for in the Contract Documents; or unknown physical conditions of the Project site, of an unusual nature, which differ materially from that ordinarily encountered and generally recognized as inherent in work of the character called for in the Contract Documents, Contractor, without disturbing the conditions and before performing any work affected by such conditions, shall, within forty-eight (48) hours of their discovery, notify Owner and Project Consultant in writing of the existence of the aforesaid conditions. Project Consultant and Owner shall, within two (2) business days after receipt of Contractor's written notice, investigate the site conditions identified by Contractor. If, in the sole opinion of Project Consultant, the conditions do materially so differ and cause an increase or decrease in Contractor's cost of, or the time required for, the performance of any part of the Work, whether or not changed as a result of the conditions, Project Consultant shall recommend an equitable adjustment to the Contract Price, or the Contract Time, or both. If Owner and Contractor cannot agree on an adjustment in the Contract price or the Contract time, the adjustment shall be referred to Project Consultant for determination. Should Project Consultant determine that the conditions of the Project site are not so materially different to justify a change in the terms of the Contract, Project Consultant shall so notify Owner and Contractor in writing, stating the reasons, and such determination shall be final and binding upon the parties hereto. No request by Contractor for an equitable adjustment to the Contract under this provision shall be allowed unless Contractor has given written notice in strict accordance with the provisions of this Article. No request for an equitable adjustment or change to the Contract Price or Contract Time for differing site conditions shall be allowed if made after the date certified by Project Consultant as the date of substantial completion.

ARTICLE 21. RESPONSIBILITY FOR WORK SECURITY.

21.01 Contractor shall at all times conduct, at its expense, all operations under the Construction Contract in a manner to avoid the risk of loss, theft or damage by vandalism, sabotage or other means to any property.

21.01.01 Contractor shall promptly take such reasonable precautions as are necessary and adequate against any conditions which involve risk of a loss, theft or damage to its property.

21.01.02 Contractor shall continuously inspect all of its Work, materials, equipment and facilities to discover and determine any such conditions and shall be solely responsible for discovery, determination and correction of any such condition.

21.02 Contractor shall comply with all applicable laws and regulations.

21.02.01 Contractor shall cooperate with Owner on all security matters as set forth elsewhere in the Contract Documents and shall promptly comply with any project security requirements established by Owner.

21.02.02 These security requirements may be more stringent in the event portions of the facilities or project are occupied or otherwise being used.

21.02.03 Such compliance with these security requirements shall not relieve Contractor of its responsibility for maintaining property security for the above noted items, nor shall it be constructed as limiting in any manner Contractor's obligation to undertake reasonable action as required to establish and maintain secure conditions at the site.

21.03 Contractor shall prepare and maintain accurate reports of incidents of loss, theft or vandalism and shall provide these reports to Owner in a timely manner.

ARTICLE 22. PROTECTION OF WORK IN PROGRESS, MATERIALS AND EQUIPMENT.

22.01 Contractor shall be responsible for and shall bear any and all risks of loss or damage to Work in progress, all materials delivered to the site, and all materials and equipment involved in the Work until completion and final acceptance of the Work under this Contract.

22.02 Permanent openings for the introduction of work and materials to the structure and construction site shall be protected so that upon completion, the Work will be delivered to the Owner in proper, whole and unblemished condition.

ARTICLE 23. ADMINISTRATION OF THE CONTRACT.

23.01 The Project Consultant will provide Administration of the Contract.

23.01.01 For those projects for which the City Engineer serves as the Project Consultant, all references to the Project Consultant shall be considered to be the City Engineer.

23.01.02 In the event the Owner should find it necessary to replace the Project Consultant, the Owner shall retain a replacement and the role of the replacement shall be the same as the role of the original Project Consultant.

23.02 Unless otherwise directed by the Owner in writing, the Project Consultant will perform those duties and discharge those responsibilities allocated to the Project Consultant by the Owner.

23.03 Neither the Project Consultant nor the Owner will be responsible for construction means, methods, techniques, sequences or procedures, safety precautions and programs in connection with the Work or for the acts of omission or commission of the Contractor, its Subcontractors or their agents or employees.

23.04 The Project Consultant and Owner will each have the authority to reject Work which does not conform to the Contract Documents and to require special inspection or testing with prior approval by the Owner. Neither the Project Consultant's nor the Owner's authority to act under this Paragraph, nor any decision made by them in good faith either to exercise or not to exercise such authority, shall give rise to any duty or responsibility of the Project Consultant or the Owner to the Contractor, any Subcontractor, any of their agents or employees, or any other person performing any of the Work.

23.05 The Contractor shall forward all communications to the Project Consultant, with simultaneous copies to the Owner.

23.06 The Project Consultant will review and certify the Contractor’s Application for Payments which the Owner must subsequently approve prior to Payment of the Contractor.

23.07 The Project Consultant shall approve shop drawings for design only, the Contractor being responsible for all dimensions, quantities, etc., necessary to complete the Work in compliance with the Drawings and Specifications and other Contract Documents.

23.08 The duties, responsibilities and limitations of authority of the Project Consultant and the Owner will not be modified nor extended without written consent of the Contractor, the Project Consultant, and the Owner.

23.09 Notwithstanding anything to the Contrary in these General Conditions or any other “Contract Document” as that term is defined in the Professional Services Agreement between the City of Pompano Beach, Florida and the Project Consultant, it is not the intention nor shall any of the provisions of those documents act as a release, limitation or discharge of the obligations or responsibilities of the Project Consultant pursuant to its agreement with the Owner.

ARTICLE 24. MATERIALS.

24.01 The Contractor shall provide materials and equipment as required in the Contract Documents. No substitution will be permitted except in the instance where a material is no longer available during the progress of the Work or is deemed by the Owner to be no longer suitable or appropriate for incorporation into the Work or for obvious economic benefits accruable to the Owner.

24.01.01 Any such substitution must be approved by the Project Consultant and Owner prior to incorporation of the proposed substitution into the Work.

24.01.02 Proposed substitutions must be submitted for consideration from the Contractor to the Project Consultant and the Owner. Documentation for the proposed substitution must include, but is not limited to substantiation of the Contractor's efforts to obtain the originally specified materials including documentary evidence from the original materials' manufacturer that such materials are not available.

24.01.03 Product delivery lead times shall not serve as a basis for any substitution request except for where approved in advance by the Owner.

24.01.04 All additional costs incurred by the Owner as the result of any substitution will be the direct responsibility of and borne by the Contractor.

24.02 The Contractor shall make written request to the Project Consultant for and obtain his written approval of the use of any materials proposed for use when "approval" materials are specified or a performance type specification is utilized without mentioning any standard by name.

24.03 If, in the opinion of the Project Consultant, a specified product or equipment no longer meets the quality of the products or equipment required for the Work, Project Consultant shall request a Change Order Proposal from the Contractor for modifying the Contract to incorporate the respective changes to the Work required, the Contract amount, and the Contract Time as beneficial to the Owner.

ARTICLE 25. STORED MATERIALS.

25.01 Contractor shall, at its expense, receive, unload, store in a secure place, and deliver from storage to the construction site all materials and equipment required for the performance of the Contract.

25.01.01 Contractor is not entitled to payment for same except for those materials which in Owner's discretion are properly stored and are going to be installed or incorporated into the construction of the Project within thirty (30) days of delivery to the construction site.

25.01.02 The storage facilities and methods of storing shall meet Owner's approval and shall be in accordance with manufacturer's recommendations, or Owner will not be obligated to pay for same.

25.01.03 Materials and equipment subject to degradation by outside exposure shall be stored in a weather tight enclosure provided by Contractor at its expense.

25.01.04 Owner may at its discretion require material to be stored in an air-conditioned location.

25.02 Provided the above conditions are met, the stored materials may be included in a subsequent Application for Payment if the Contractor also complies with the following:

25.02.01 An applicable purchase order is provided listing the materials in detail and identifying the Contract Documents, by name, with verification that the total value of the purchase order amount reconciles with the corresponding application for payment stored materials line item value.

25.02.02 Evidence that proper storage security is provided.

25.02.03 The Owner is provided legal title (free of liens or encumbrances of any kind) to the material that is stored or stockpiled.

25.02.04 The Contractor and/or its Subcontractor have provided insurance for the Stored Materials against loss, damage (from whatever source), or disappearance, including loss or theft prior to incorporation into the Work. By execution of the Contract, Contractor releases Owner from any responsibility for Stored Materials and assumes all liability for and risk of loss or damage, by whatever means, including Owner's alleged negligence, regardless of whether the Owner has paid for said Stored Materials.

25.03 Once any Stored Material is paid for by Owner, it shall not be removed from the designated storage area except for incorporation into the Project or upon subsequent written approval by Owner.

25.04 No Applications for Payment shall be submitted nor payments made based on the value of materials stored at locations other than the Project, unless otherwise approved in writing by the Owner.

25.05 It is further agreed between the parties that the transfer of title and the Owner's payment for any Stored Material pursuant to the Contract Documents shall in no way relieve the Contractor of the responsibility for providing and installing such material in accordance with the requirements of the Contract Documents.

25.06 The Contractor warrants that title to all of the Work or Stored Materials covered by the Application for Payment will pass to the Owner either by incorporation in the Project or upon receipt of payment by the Contractor, whichever occurs first, free and clear of all liens, claims, security, interest or encumbrance; and that none of the Work and none of the Stored Materials covered by the Application for Payments will have been acquired by the Contractor, or by any other person performing the Work at the site or providing materials and equipment to the Project, subject to an agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such person.

25.07 In the event stored materials which Owner is paying for in advance of their being installed or incorporated into the Project pursuant to this Paragraph are not installed or incorporated into the Project within thirty (30) days of when they are delivered to the site, Contractor shall not be entitled to payment for any future stored materials on this Project and the amounts previously approved for payment for said materials shall be deducted from the Contractor’s next application for payment..

ARTICLE 26. INSPECTION: REJECTION OF MATERIALS AND WORKMANSHIP.

26.01 All material and equipment provided and work performed shall be properly inspected by Contractor, at its expense, and shall at all times be subject to quality surveillance, inspections, observations or quality audit by Owner, Project Consultant and any inspectors conducting an inspection pursuant to code, law, regulations, etc.

26.01.01 Contractor shall provide safe and adequate facilities, and all samples, drawings, lists and documents necessary for such quality surveillance, observation or quality audit.

26.01.02 The Contractor shall permit and facilitate inspection of the Work by the Owner, Project Consultant, Inspectors for any governmental agency, authority, or board.

26.01.03 Owner also reserves the right to designate others such as consultants, commissioning authorities, test and balance agents, forensic specialists, etc. to conduct inspections during or subsequent to the Work as Owner in its discretion desires.

26.01.04 Owner and Project Consultant shall be afforded full and free access to the shops, factories or places of business of Contractor and its Subcontractors for such quality surveillance, observation or quality audit and to determine the status of the Work.

26.01.05 In the event the Project Consultant or Owner requires a factory inspection, the Contractor shall notify the suppliers that the material shall not be produced or fabricated without due notice to the Project Consultant and Owner and an opportunity for such inspection.

26.02 If any Work should be covered up without approval or consent of the Project Consultant or Owner, it must, if required by the Project Consultant or Owner, be uncovered for examination at the Contractor's expense.

26.03 If any material, equipment or workmanship is determined by Owner, City Engineer, Project Consultant or Inspector either during performance of the Work or on final quality surveillance, or during any applicable warranty period, to be defective or not complying with the requirements of this Construction Contract, Owner, City Engineer, Project Consultant or Inspector will notify Contractor in writing that such material, equipment or portions of the Work is rejected and Owner reserves the right to withhold payment on any such item or seek compensation from Contractor for same. Thereupon, Contractor shall, at its own expense, immediately remove, replace or correct such defective material, equipment or portions of the Work by making the same comply strictly with all requirements of the Contract Documents. The Contractor shall be responsible for the costs of any additional site observations, special inspections and/or testing, or other activities of either the Project Consultant or the Owner made necessary by the correction of such defective materials, equipment or portions of the Work.

26.04 Neither the failure to make such quality surveillance, observation or quality audit, nor to discover defective workmanship, materials, or equipment, shall prejudice the rights of Owner to correct or reject the same as hereinafter provided.

ARTICLE 27. WARRANTY.

27.01 Unless otherwise provided elsewhere in the Contract Documents, all material and equipment incorporated into any Work covered by the Contract Documents shall be new and, where not specified, of the most suitable grade of their respective kinds for their intended use, and all workmanship shall be in accordance with construction practices acceptable to Owner and Project Consultant.

27.02 Unless otherwise provided in the Contract Documents, Contractor warrants all Work, equipment, materials and workmanship to be in accordance with the Contract Documents, any and all applicable codes, proper and workmanlike, first class and free from defects for a period of twelve (12) months (unless longer guarantees or warranties are provided for elsewhere in the Contract Documents in which case the longer periods of time shall prevail) from and after Final Completion of the Work under the Contract Documents, regardless of whether the same were provided or performed by Contractor or by any Subcontractor.

27.03 Contractor’s warranty with respect to latent defects shall be in accordance with Chapter 95, Florida Statutes, and other applicable provisions of State law.

27.04 In the event of damage or injury to persons or property or other consequential or resultant damages result from Contractor's breach of any warranties, then the Contractor will be responsible for same.

ARTICLE 28. OFFICE SPACE FOR THE OWNER'S PERSONNEL.

28.01 The Contractor shall provide, at Contractor’s expense, for the duration of the Work, a suitable lockable office for any Owner designated personnel.

ARTICLE 29. PROJECT RECORD DOCUMENTS AND SURVEY.

29.01 A marked up record set of the Contract Documents and other project records as required elsewhere within the Contract Documents will be kept up to date by the Contractor on the jobsite at all times. These documents will be given to the Project Consultant at the completion of the Work as required by the Contract Documents, and properly labeled as "Project Record Documents."

29.02 In addition to the "Project Record Documents", the Contractor will cause to have prepared by a Surveyor, registered in the State of Florida, a site survey clearly representing all Work done under this Contract and updating the original survey as may have been provided by the Owner.

29.03 The Contractor shall submit Project Record Documents and Survey in the manner and format specified elsewhere in the Contract Documents.

29.04 This is a critical item and final payment will be withheld from the Contractor until "Project Record Documents" and survey are provided by the Contractor and approved by the Project Consultant.

ARTICLE 30. SALVAGE.

30.01 Any salvage resulting from clearing, grubbing, grading, draining, remodeling or altering any existing facilities on this site shall be the property of the Owner; and this material shall be piled or stacked on the site if the Owner desires this material.

30.02 If this material is not desired by the Owner, it shall be disposed of by the Contractor at his expense.

ARTICLE 31. CLAIMS BY THE CONTRACTOR.

31.01 Although Contractor acknowledges the No Damage for Delay clause set forth in Article 6 of the Agreement between Owner and Contractor, in the event the Contractor is entitled to assert any other claim against Owner for any reason, claims by the Contractor against the Owner (except for claims asserted under Article 20 which are treated as set forth therein), are subject to the following terms and conditions:

31.01.01 All Contractor claims against the Owner shall be initiated by a written claim submitted to the Owner, c/o the City Engineer, and the Project Consultant. Such claim shall be received by the Owner and the Project Consultant no later than fifteen (15) calendar days after the event, or the first appearance of the circumstances causing the claim, and same shall set forth in detail all known facts and circumstances supporting the claim and the actual damages or injuries suffered;

31.01.02 The Contractor shall continue diligently with its performance hereunder regardless of the existence of any claims submitted by the Contractor;

31.01.03 In the event the Contractor seeks to make a claim, as a condition precedent to any such claim the Contractor shall strictly comply with the notice requirements above and such claim shall be made by the Contractor before proceeding to execute any additional or changed Work. Failure of the condition precedent to occur, i.e., providing notice as required in Article 31.01.01 above, shall constitute a complete waiver by the Contractor of any claim for additional compensation or extension of time. This written notice requirement may not be waived by verbal representations or the acts of representatives of the Owner or Project Consultant;

31.01.04 In connection with any claim by the Contractor against the Owner for compensation in excess of the Contract Price, any liability of the Owner for the Contractor's cost shall be strictly limited to direct cost of labor and materials incurred by the Contractor at the jobsite and shall in no event include indirect cost, overhead, loss of profit, or consequential damages of the Contractor. The Owner shall not be liable to the Contractor for claims of third parties including, but not limited to, subcontractors, suppliers, laborers, etc.

ARTICLE 32. CHANGE ORDERS.

32.01 One or more changes to the Work within the general scope of this Contract may be ordered by the Owner by Change Order, Project Consultant's Supplementary Instructions, and Construction Change Directives.

32.02 The Contractor shall proceed with any extra Work or changes which alter the Contract by adding to, or deducting from the Contract Sum or Contract Time in strict accordance with the following terms and conditions:

32.02.01 Change Order shall mean a written order to the Contractor executed by the Owner and the Project Consultant after execution of this Contract, directing a change in the Work and may include a change in the Contract Price or the time for the Contractor's performance, or any combination thereof;

32.02.02 Any change in the Contract Price or time resulting from a Change Order shall be determined as follows:

a. By mutual agreement between the Owner and the Contractor as evidenced by (a) the change in the Contract Price or time being set forth in Change Order in accordance with Article 32.02.08 below, and (b) the execution of the Change Order; or,

b. If no mutual agreement occurs between the Owner and the Contractor, the change in the Contract Price, if any, shall be derived based upon the Cost Plus Price basis (as set forth in Article 32.02.08 below) by determining the "total actual costs" (in accordance with Article 32.02.09 below), incurred or savings achieved, resulting from revisions in the Work. Such total actual costs or savings shall include a component for direct jobsite overhead and profit but under no circumstances shall it include non-job site overhead expenses or costs or any other indirect costs or components. Any such costs or savings shall be documented in the format, and with such content and detail as the Owner or the Project Consultant requires. If agreement is not reached as to the change in time, Contractor shall be given a reasonable time based upon the scope of Work required by the change.

32.02.03 The execution of a Change Order by the Contractor shall constitute conclusive evidence of the Contractor's agreement to the ordered changes in the Work and the change in the Contract Price and the time for performance by the Contractor. The Contractor, by executing the Change Order, waives and forever releases any claim against the Owner for additional time or compensation for issues or matters relating to or arising out of or resulting from the Work included within or affected by the executed Change Order.

32.02.04 The Contractor shall notify and obtain the consent and approval of the Contractor's surety with reference to all Change Orders if such notice, consent or approval are required by the Owner, the Project Consultant, the Contractor's surety or by law. The Contractor's execution of the Change Order shall constitute the Contractor's warranty to the Owner that the surety has been notified of, and consents to, such Change Order and the surety shall be conclusively deemed to have been notified of such Change Order and to have expressly consented thereto, and that the penal sums of the performance and payment bonds furnished by Contractor and Surety are adjusted coextensively with the amount of the Change Order.

32.02.05 The Owner, without invalidating the Contract, may require the change for any reason whatsoever. All such Work shall be executed under the terms of the original Contract.

32.02.06 All change orders and adjustments shall be in writing and executed by the Contractor and Owner; otherwise, no claim for additional compensation or time will be allowed.

32.02.07 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change which results in a net decrease in the Contract Sum shall be the total actual cost (as set forth in Article 32.02.09 below) saved as confirmed by the Project Consultant. The amount shall not include an amount for the overhead and profit of the Contractor which the Owner is not required to pay as a result of the deletion or decrease. When both additions and credits covering related Work or substitutions are involved in a change, the overhead and profit shall be calculated on the basis of net increase, if any, with respect to that change.

32.02.08 The value of any change ordered under the Contract for extra Work and/or any reductions in Work required, shall be determined under one or more of the following procedures before a written Change Order is issued.

a. By **UNIT PRICES** named in the Contract or subsequently agreed upon by the Owner and the Contractor, which prices shall include Contractor's overhead and profit.

b. By **LUMP SUM PRICE** agreed upon actual reasonable costs and direct job site overhead by the Owner and the Contractor, which price shall include Contractor's overhead and profit but under no circumstances shall it include non job site overhead, expenses or costs or any other indirect costs; a breakdown of the estimated costs comprising the lump sum price may be required by the Project Consultant for his review. Percentage for overhead and profit shall be determined in accordance with the method listed for COST PLUS PRICE, subparagraph (c.) below.

c. By a **COST PLUS PRICE** based on total actual costs as defined in Article 32.02.09 below, plus an added percentage, all determined as follows:

OVERHEAD AND PROFIT:

JOB SITE OVERHEAD, including supervision and the furnishing, use and maintenance of small tools and ordinary equipment incidental to and required for the work of subcontractors (whether performed by them or others) shall be considered to be just and fully compensated for, by adding an amount equal to five percent (5%) of the sum of material costs (as defined under Article 34.08.09(a) below) and labor costs (as defined under Article 34.08.09(b) below), and rentals (as defined under Article 32.08.09(c) below). There shall be no compensation for any non job site overhead, expenses or costs.

PROFIT, may then be added by the subcontractor to the above material costs and labor costs, including the JOB SITE OVERHEAD allowance, at the rate of 10% of the sum of those costs.

JOB SITE OVERHEAD, including general supervision and the furnishing, use and maintenance of small equipment incidental to and required for the Work of the General Contractor (including that of his subcontractors) shall be considered to be just and fully compensated for by adding an amount equal to ten percent (10%) of the sum of material costs (as defined under Article 32.08.09(a) below and labor costs (as defined under Article 32.08.09(b) below) and rentals (as defined under Article 32.08.09(c) below). There shall be no compensation for any non job site overhead expenses or costs.

PROFIT may then be added by the Contractor to the above material costs and labor costs, including the JOB-SITE OVERHEAD allowance, at the rate of five percent (5%) of the sum of those costs.

d. BOND ALLOWANCE, for maintaining the Performance Bond at 100% of the contract amount, a sum of one percent (l%) of the total cost of the change, (including material, labor, overhead and profit, and equipment rentals) shall be allowed on all change orders.

32.02.09 The total actual costs of materials, labor and equipment rentals may include the following only:

a. Material costs actually recorded by the Contractor and/or subcontractors as they are delivered to the site and as evidenced from originally receipted invoices, listing appropriate quantities and unit prices. Records in proper form shall be maintained and available to the Project Consultant at all times.

b. Labor costs represented by the actual wages paid to all laborers, apprentices, journeymen, and foremen involved in and necessary to completing the particular construction operations, for each day and every hour such labor teams and foremen are actually employed and on the extra Work required, including the net cost of insurance, Social Security and Workmen's Compensation. The furnishing, use and maintenance of small tools and ordinary equipment normal to the work of individual workmen in the trades will be considered part of the labor costs. Records in proper form shall be maintained and available to the Project Consultant at all times.

c. Rentals for special equipment or machinery such as power driven roller, tractors, trucks, shovels, drills, mixers, pumps, hoists, etc., required for the economical performance of the Work, at reasonable rental prices agreed upon before work commences, shall be allowed the Contractor and/or his subcontractors by the Project Consultant for each and every hour such special equipment is in use on the particular work.

32.02.10 The Contractor is obligated to proceed with the Work for a Change Order, even though there has not been an agreement reached with the Owner as to an adjustment to the Contract Price or time, and even if there is a dispute as to same. In such instances the Owner, City Engineer or Project Consultant will issue a Construction Change Directive to Contractor providing for the scope of work to be performed and the payment therefore based on 32.02.09 above. A Change Order or proposed Change Order shall not be the basis of the Contractor not performing pursuant to the Contract Documents.

32.02.11 The Contractor, Owner and Project Consultant shall administer and document the Change Order process by utilizing the documentation specified elsewhere in the Contract Documents, including a Construction Change Directive.

32.03 The Project Consultant will have authority to order minor changes in the Work not involving an adjustment to the Contract Sum or Contract Time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order of the Project Consultant and such changes shall be binding on the Owner and the Contractor.

32.04 The Owner has authorized the following approval thresholds for Change Orders in the Name of The City of Pompano Beach, Florida under its General Services Manual, the rules of which are incorporated below:

A. The City Manager is authorized to approve change orders up to the cumulative total of 10 percent of the original construction contract amount, not to exceed $10,000 in the aggregate.

B. When the cumulative total of all change orders on a project has exceeded the ceiling established in 32.04A above, all subsequent change orders will require prior City Commission approval, except in emergency cases as declared by the City Manager, or where the change order in question would be in the form of a credit, thereby reducing the adjusted contract amount.

C. Approval of change orders under this policy shall be for the purposes of expediting the work in progress and shall be confirmed by City Commission action at the next regular meeting of the City Commission.

ARTICLE 33. DISCOVERING AND CORRECTING DEFECTIVE OR INCOMPLETE WORK.

33.01 In the event that the Contractor covers, conceals or obscures its work in violation of this Contract or in violation of a directive from the Owner or the Project Consultant, such work shall be uncovered and displayed for the Owner's or Project Consultant's inspection upon request, and shall be reworked at no cost in time or money to the Owner.

33.02 If any of the work is covered, concealed or obscured in a manner not covered by Subparagraph (A) above, it shall, if directed by the Owner or the Project Consultant, be uncovered and displayed for the Owner's or Project Consultant's inspection. If the uncovered work conforms substantially with this Contract, the costs incurred by the Contractor to uncover and subsequently replace such work shall be borne by the Owner; otherwise, such costs shall be borne by the Contractor.

33.03 The Contractor shall, at no additional cost in money to the Owner or extension of time correct work rejected by the Owner or by the Project Consultant as defective or failing to conform to this Contract. Additionally, the Contractor shall reimburse the Owner for all testing, inspections and other expenses incurred as a result thereof.

33.04 In addition to its warranty obligations set forth elsewhere herein, the contractor shall be specifically obligated to correct any and all defective or nonconforming work for a period of twenty-four (24) months following final completion upon written direction from the Owner.

33.05 The Owner may, but shall in no event be required to, choose to accept defective or nonconforming work.

33.05.01 In such event, the Contract Price shall be reduced, at Owner's option, by the greater of (i) the reasonable costs of removing and correcting the defective or nonconforming work, or (ii) the difference between the fair market value of the Project as constructed and the fair market value of the Project had it not been constructed in such a manner as to include defective or nonconforming work.

33.05.02 If the remaining portion of the unpaid Contract Price, if any, is insufficient to compensate the Owner for the acceptance of defective or nonconforming work, the Contractor shall, upon written demand from the Owner, pay the owner such remaining compensation for accepting defective or nonconforming work.

ARTICLE 34. SAFETY, PROTECTION OF WORK AND PROPERTY.

34.01 Contractor shall be fully and solely responsible for conducting all operations under this Construction Contract at all times in such a manner as to avoid the risk of bodily harm to persons and damage to property. Contractor shall continuously and diligently inspect all Work, material and equipment to discover any conditions which might involve such risks and shall be solely responsible for discovery and correction of any such conditions.

34.02 Contractor shall instruct its personnel on the requirements of the Contractor's safety program and shall coordinate with other contractors and subcontractors on safety matters.

34.03 Contractor shall provide safety equipment and enforce the use of such equipment by its employees.

34.04 Contractor shall maintain accurate accident and injury reports and shall provide to Owner a monthly summary of injuries and man hours lost due to injuries.

34.05 Contractor shall maintain all portions of the Work in a neat, clean and sanitary condition at all times.

34.06 Contractor shall assure that all Subcontractors shall, without expense to Owner, comply with the foregoing.

34.07 Contractor shall comply with any and all rules, regulations, laws, etc., which apply to safety requirements, including but not limited to OSHA requirements.

34.08 Safety Precautions and Programs:

34.08.01 The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

34.08.02 In the event the Contractor encounters on the site material reasonably believed to be asbestos or polychlorinated biphenyl (PCB) which has not been rendered harmless, the Contractor shall immediately stop Work in the area affected and report the condition to the Owner and Project Consultant in writing. The Work in the affected area shall not thereafter be resumed except by written notice from the Owner. The Work in the affected area shall be resumed in the absence of asbestos or polychlorinated biphenyl (PCB), or when it has been rendered harmless, by written agreement of the Owner, Contractor and Project Consultant.

34.08.03 The Contractor shall not be required to perform without consent any Work relating to asbestos or polychlorinated biphenyl (PCB).

34.09 Safety of Persons and Property

34.09.01 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to:

a. Employees on the Work and other persons who may be affected thereby;

b. The Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and

c. Other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

34.09.02 The Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations and lawful orders of public authorities bearing on safety of person or property or their protection from damage, injury or loss.

a. The Contractor and his Subcontractors shall comply with and conform in all respects to the standard set forth in the Occupational Safety and Health Act (OSHA) of 1970.

b. The Contractor shall prominently post and maintain on the jobsite:

1) OSHA 200: Log and summary of occupational injuries and illnesses.

2) OSHA 2203: Provisions of the Act poster.

34.09.03 The Contractor shall implement and maintain a continuing safety program applicable to all Contractor employees, Subcontractors, and Sub-subcontractors, to include:

a. Designating a responsible member of the Contractor's organization at the site as the Contractor's "Safety Officer" whose duty shall be the prevention of accidents, safety inspections, and accident documentation. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and the Project Consultant.

b. Holding weekly safety meetings with employees and Subcontractors.

c. Implementing OSHA Voluntary Protection Programs.

d. Ensuring the presence of an American Red Cross (or other organization acceptable to the Owner) certified Cardiopulmonary Resuscitation (CPR) and first-aid trained individual on site at all times.

e. Compliance with the Drug Free Work Place Act of 1988, the Federal Omnibus Transportation Employee Testing Act of 1991, and the certification of compliance with the same as required by the Owner in Document 00457, Drug-Free Workplace Certification.

f. Erecting and maintaining reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

g. Ensuring that employees are not discriminated against or discharged for filing reasonable safety or health complaints or for otherwise exercising their rights in these regards.

34.09.04 When use of hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

34.09.05 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to properly caused in whole or in part by the Contractor, a Subcontractor or a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is reasonable, except damage or loss attributable to acts or omissions of the Owner or Project Consultant or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault of negligence of the Contractor.

34.09.06 The Contractor shall not load or permit any part of the construction or site to be loaded so as to endanger its safety.

34.09.07 Building materials, Contractor's equipment and other supplies may be stored on the premises, but the placing of same shall be in substantial, watertight storage sheds upon the premises where directed in which he shall store all materials which would be damaged by weather. This shall in no manner relieve the Contractor from full responsibility for such materials. Sheds and other storage structures must be secured and anchored in a manner sufficient to withstand hurricane force winds as defined by applicable codes but not less than a 120 mile per hour wind uplift force.

34.10 **Emergencies:** In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss.

ARTICLE 35. ROYALTIES AND PATENTS.

35.01 The Contractor shall pay all royalties and license fees.

35.02 The Contractor shall be responsible for all infringement of patent rights and shall assume the defense, including payment of attorney fees and costs, of any suit brought against Contractor and/or Owner for infringement of any United States patent or for wrongful use of proprietary information of any third party.

35.03 Contractor hereby indemnifies and shall defend and hold harmless Owner and its representatives, respectively, from and against all claims, losses, costs, damages, and expenses, including attorney's fees, incurred by Owner and its representatives, respectively, as a result of or in connection with any claims or actions based upon infringement or alleged infringement of any patent, and arising out of the use of the equipment or materials provided under this Construction Contract by Contractor, or out of the process of actions employed by, or on behalf of Contractor in connection with the performances of this Construction Contract. Contractor shall, at its sole expense, promptly defend against any such claim or action unless directed otherwise by Owner or its representatives; provided that Owner or its representatives shall have notified Contractor upon becoming aware of such claims or actions, and provided further, that Contractor's aforementioned obligations shall not apply to equipment, materials, or processes furnished or specified by Owner or its representatives.

35.04 Contractor shall have the right, in order to avoid such claims or actions, to substitute at its expense non-infringing equipment, materials, or processes, or to modify such infringing equipment, materials and processes so they become non-infringing, or obtain the necessary licenses to use the infringing equipment, materials or processes, provided that such substituted and modified equipment, materials and processes shall meet all the requirements and be subject to all the provisions of the Contract Documents.

35.05 The indemnification pursuant to Florida Statute 725.06 and other Florida laws, etc., shall have a separate consideration of $1.00, receipt of which is hereby acknowledged and incorporated into the project sum. This is incorporated by reference into the Bid Documentation and Specifications if any.

ARTICLE 36. TAXES.

36.01 Contractor shall pay all taxes, levies, duties and assessments of every nature which may be applicable to any Work under this Contract.

36.02 The Contract Sum and any agreed changes thereto shall include all taxes imposed by law. Contractor shall make any and all payroll deductions as required by law.

36.03 Contractor herein indemnifies and holds the Owner harmless from any liability on account of any and all such taxes, levies, duties, assessments and deductions.

ARTICLE 37. INDEMNITY AND HOLD HARMLESS.

37.01 To the fullest extent permitted by law, the Contractor shall defend, indemnify and hold harmless the Owner, its agents and employees and each of them hereinafter collectively referred to as the Owner, from and against any and all judgments, demands, claims, causes of action, liability, expenses, losses, costs, fines, and damages (including reasonable attorney’s fees and expert’s fees) of every kind and character brought against the Owner by any person,

party or entity of any kind or nature whatsoever arising out of, incident to, relating or regarding the Contractor's performance under this Agreement, the condition of the premises, and/or the Contractor's acts of omission or commission.

37.02 Contractor, however, shall not be responsible to Owner for damages resulting out of bodily injury or damages to property which a Court of competent jurisdiction determines as being attributed to the negligence of Owner, its respective agents, servants, employees or officers.

37.03 Said indemnifications by Contractor shall be extended to include all "Subcontractors", deliverers, suppliers, furnishers of material or anyone acting for, on behalf of, or at the request of the Contractor.

37.04 Contractor recognized the broad nature of this indemnifications and hold harmless clause and voluntarily makes this covenant and expressly acknowledge the receipt of Ten ($10.00) Dollars, which payment is incorporated into the Contract Sum, and such other good and valuable consideration provided by Owner in support of this indemnification in accordance with the laws of the State of Florida.

37.05 This clause shall survive termination of this Agreement and pursuant to Florida Statute 725.06 be incorporated by reference into any and all Bid Documentation or Specifications.

ARTICLE 38. TERMINATION BY THE CONTRACTOR.

38.01 If the Owner repeatedly fails to perform its material obligations to the Contractor for a period of 30 days after receiving written notice from the Contractor of its intent to terminate hereunder, the Contractor may terminate performance under this Contract by written notice to the Owner and the Project Consultant.

38.02 In such event, the Contractor shall be entitled to recover from the Owner as though the Owner had terminated the Contractor's performance for convenience pursuant to the terms and conditions of this Contract.

ARTICLE 39. OWNER'S RIGHT TO SUSPEND CONTRACTOR'S PERFORMANCE.

39.01 The Owner shall have the right at any time to direct the Contractor to suspend its performance, or any designated part thereof, for any reason whatsoever, or without reason. If any such suspension is directed by the Owner, the Contractor shall immediately comply with same;

39.02 In the event the Owner directs a suspension of performance under this Paragraph through no fault of the Contractor, the Owner shall pay the Contractor as full compensation for such suspension the Contractor's reasonable costs, actually incurred and paid, of the following items only:

39.02.01 Demobilization and remobilization, including such costs paid to subcontractors;

39.02.02 Preserving and protecting Work in place;

39.02.03 Storage of materials or equipment purchased for the Project, including insurance thereon;

39.02.04 Performing in a later, or during a longer, time frame than that contemplated by this Contract.

ARTICLE 40. TERMINATION BY THE OWNER.

40.01 The Owner may, at the Owner's option, for any reason and at any time terminate for convenience, any work under this Contract, in whole or, from time to time, in part, in accordance with the following terms and conditions:

40.02 The Owner shall give written notice of such termination to Contractor 7 days before it becomes effective.

40.02.01 The Contractor shall incur no further obligations in connection with the Work and the Contractor shall stop work when such termination becomes effective.

40.02.02 The Contractor shall also terminate outstanding orders and subcontracts.

40.02.03 The Contractor shall settle the liabilities and claims arising out of the termination of subcontracts and orders.

40.02.04 The Owner may direct the Contractor to assign the Contractor's right, title and interest under termination orders or subcontracts to the Owner or its designee.

40.02.05 The Contractor shall transfer title and deliver to the Owner such completed or partially completed Work and materials, equipment, parts, fixtures, information and Contract rights as the Contractor has.

40.02.06 When terminated for convenience, the Contractor shall be compensated as follows:

a. The Contractor shall submit a termination claim within one year to the Owner and the Project Consultant specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the Owner or the Project Consultant. If the Contractor fails to file a termination claim with the Owner's Project Consultant within one (1) year from the effective date of termination, the Owner shall have no further obligation to the Contractor and Contractor waives any and all rights for compensation based upon the termination.

b. The Owner and the Contractor may agree to the compensation, if any, due to the Contractor hereunder;

c. Absent agreement to the amount due to the Contractor, the Owner shall pay the Contractor the following amounts:

1. Contract prices for labor, materials, equipment and other services accepted under this Contract;

2. Reasonable costs incurred in preparing to perform and in performing the terminated portion of the Work, and in terminating the Contractor's performance, plus a fair and reasonable allowance for direct jobsite overhead (and not home office or other overhead) and profit thereon (such profit shall not include anticipated profit or consequential damages); provided, however, that if it appears that the Contractor would have not profited or would have sustained a loss if the entire Contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

3. Reasonable costs of settling and paying legitimate claims arising out of the termination of subcontractors or orders pursuant to this Paragraph. These costs shall not include amounts paid in accordance with other provisions hereof.

4. The total sum to be paid the Contractor under this Subparagraph shall not exceed the total Contract Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

40.03 The Owner may terminate this Contract for cause in accordance with the following terms and conditions:

40.03.01 If the Contractor does not perform the Work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Contract, then the Owner, in addition to any other rights it may have against the Contractor or others, may terminate the performance of the Contractor for cause upon seven (7) day written notice and assume possession of the Project site and of all materials and equipment at the site and may complete the Work.

40.03.02 In such case, the Contractor shall not be paid further until the Work is complete.

40.03.03 After final completion has been achieved, if any portion of the Contract Price (as it may be modified hereunder) remains after the cost to the Owner of completing the Work, including all costs and expenses of every nature incurred, has been deducted by the Owner, such remainder shall be paid to the Contractor. Otherwise, the

Contractor shall pay the Owner any and all costs, fees, damages or expenses which the Owner has paid or is obligated to pay in excess of the contract price (as it may be modified hereunder). This obligation for payment shall survive the termination of the Contract. In the event the employment of the Contractor is terminated by the Owner for cause pursuant to this Subparagraph and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience and the terms of Article 40.02 shall apply.

ARTICLE 41. CONTRACTOR'S INSURANCE

41.01 The Contractor shall maintain such insurance as will protect the Contractor and Owner from claims under Workmen's Compensation Acts, and from any other claims or damages for personal injury, including death and property damage, which may arise from operations under this Contract, whether such operations be by himself or by any subcontractor or anyone directly or indirectly employed by either, as more fully set forth below and in the amounts provided herein. Prior to commencement of the Work, all Certificates of Insurance executed by authorized representatives of the insurance company shall be filed with the Owner and shall be subject to its approval for accuracy of protection. In addition, the Owner may at any time require that Contractor or its insurer provide any other documentation regarding insurance to Owner including, but not limited to, the policy. The Contractor shall not commence Work under this Contract until the provisions of this paragraph have been complied with. Owner may withhold payments due to Contractor in accordance with this Contract or terminate or suspend this Contract with all costs or expenses associated with same to be paid by Contractor in the event Contractor fails to comply with any requirement in the Contract regarding insurance. In the event of cancellation of any policy, Contractor is obligated to immediately notify Owner of same and obtain policy(s) in accordance with the Contract Documents.

41.02 Contractor shall comply with any and all insurance obligation required by law, rules, regulations, etc., including but not limited to those required by State Regulations for Educational Facilities.

41.03 The Contractor will be required to provide a Certificate of Insurance indicating that Workers' Compensation has been provided for all employees in compliance with Chapter 440, Florida Statutes.

41.04 The Contractor shall procure and carry Comprehensive General Liability insurance including contractual and indemnification liability covering this Contract and Products/Completed Operations Liability Insurance covering personal injury and bodily injury in limits of not less than $1,000,000 for injury or death to any one person and not less than $2,000,000 each occurrence; and shall carry insurance against property damage in limits of not less than $1,000,000 per claimant and $2,000,000 per occurrence as a minimum coverage. The Contractor shall also procure and carry Owner's and Contractor's protective liability insurance. In the event that work to be performed hereunder by Contractor involves the removal and disposal of asbestos-related materials, Contractor shall, in addition to the foregoing coverages, also provide and carry Asbestos Liability-Occurrence form only, with $1,000,000 per occurrence, $2,000,000 aggregate. All insurance shall name the Owner as an additional insured, and shall remain in full force and effect for two (2) years following Contractor’s completion of the work.

41.05 The Contractor shall carry at no additional expense to the Owner, Builders' Risk Insurance for the perils of fire, vandalism, malicious mischief and those included in extended coverage in the amount of one hundred percent (100%) of the values at risk. Such policies shall be written to protect the Contractor and the Owner as their interest may appear.

41.06 All Contractors shall maintain automobile liability insurance against bodily injury and property damage in at least the amounts of one million dollars ($1,000,000) per claimant, one million dollars ($1,000,000) per occurrence.

41.07 The insurance coverage amounts provided for in this Section are the minimum required insurance amounts. The Owner may require additional insurance or coverage on a case-by-case basis. Any insurance or coverage amounts in addition to those provided for herein shall be specified in the Contract Documents.

41.07 The Owner is not maintaining any insurance on behalf of Contractor covering against loss or damage to the Work or to any other property of Contractor. In the event Contractor maintains insurance against physical loss

or damage to Contractor's construction equipment and tools, such insurance shall include an insurer's waiver or rights of subrogation in favor of Owner.

41.08 The requirements contained herein as to types and limits, as well as Owner's approval of insurance coverage to be maintained by Contractor, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under the Contract.

41.09 The policies of such insurance in force, shall be issued by companies qualified to do business in the State of Florida and be acceptable to the Owner and shall provide that the Owner be given thirty (30) days advance written notice of the cancellation, expiration or any material change in the coverage afforded thereunder. The companies must be rated at least A-VI by AM Best or Aa3 by Moody's Investor Service. All policies must remain in effect during performance of the Work and for a period of one year after final completion.

41.10 Uninsured Claims. If any action by any person, firm or corporation is brought or threatened against the Owner or against the Contractor and the Owner for any alleged loss, damage or injury arising out of or in the consequence of the performance or nonperformance of the Contract which, in the reasonable opinion of the Owner, may not be covered by the contingent liability, public liability or property damage insurance policy, or, which together with other such actions or claims seeks a recovery in excess of the amount payable under such policies, the amount of such recovery sought or so much thereof as the Owner reasonably deems necessary, may be withheld by the Owner from any money due the Contractor. The Owner in its sole discretion may permit the Contractor to substitute other satisfactory security in lieu of the monies so withheld. If the liability of the Owner is determined by judgment or award of a court or other tribunal of competent jurisdiction, or if such recovery sought shall have been admitted by the Contractor to be valid, the Owner may pay such judgment, award of admitted recovery out of the monies retained by the Owner under the provisions of this subparagraph and return the remaining balance, if any, to the Contractor.

41.11 Adequate funds shall be retained for the insurance costs listed in the Schedule of Values attached to the Contractor’s respective Applications for Payment to account for insurance coverage renewals on multi-year projects coupled with invoices to substantiate the annual costs.

ARTICLE 42. PERFORMANCE BOND AND PAYMENT BOND

42.01 For a Project with an estimated cost of $200,000.00 or more, the Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as specifically required in the Contract Documents on the date of execution of the Contract.

ARTICLE 43. RIGHT TO AUDIT PROVISIONS

43.01 Contractor's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, subcontract files (including proposals of successful and unsuccessful bidders), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during normal working hours, by Owner's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the contractor or any of his payees pursuant to the execution of the contract. Such records subject to examination shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this contract.

43.02 For the purpose of such audits, inspections, examinations and evaluations, the Owner's agent or authorized representative shall have access to said records from the effective date of this contract, for the duration of the Work, and until 5 years after the date of final payment by Owner to Consultant pursuant to this contract.

43.03 Owner's agent or its authorized representative shall have access to the Contractor's facilities, shall have access to all necessary records, and shall be provided adequate and appropriate work space, in order to conduct audits in

compliance with this article. Owner's agent or its authorized representative shall give auditees reasonable advance notice of intended audits.

43.04 Contractor shall require all subcontractors, insurance agents, and material suppliers (payees) to comply with the provisions of this article by insertion of the requirements hereof in any written contract agreement. Failure to obtain such written contracts which include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the Contractor pursuant to this contract.

43.05 If an audit inspection or examination in accordance with this article, discloses overcharges (of any nature) by the Contractor to the Owner in excess of 10% percent of the total contract billings, the actual cost of the Owner's audit shall be paid by the Contractor.

ARTICLE 44. LAWS AND REGULATIONS

44.01 Contractor and its employees and representative shall at all times, comply with all applicable laws, ordinances, statutes, rules and regulations in effect at the time Work is performed pursuant to the Contract Documents.

44.02 If, during the term of this Construction Contract, there are any changed or new laws, ordinances or regulations not in existence at the time of signing this Construction Contract which become effective and which affect the cost or time of performance of the Construction Contract, Contractor shall within fifteen (15) days of the discovery of said law, ordinance or regulation, notify Owner in writing and submit detailed documentation of such effect in terms of both time and cost of performing the Construction Contract. Upon concurrence by Owner as to the effect of such changes, an adjustment in the compensation and/or time of performance may be made at Owner's discretion.

44.03 If any discrepancy or inconsistency should be discovered between the Contract Documents and any law, ordinance, regulation, order or decree, Contractor shall within fifteen (15) days of discovery of same report the same in writing to Owner who will issue such instructions as may be necessary.

ARTICLE 45. DISPUTE RESOLUTION.

45.01 The Owner and Contractor agree that, in the event of a dispute, the parties will attempt to resolve such dispute without litigation and that resolution through mediation procedures will be encouraged.

45.02 The existence of a dispute between the parties shall not be the basis of the Contractor unilaterally electing not to continue performance pursuant to the terms of the Contract Documents.

ARTICLE 46. GOVERNING LAW AND ATTORNEYS FEES.

46.01 The Construction Contract shall be governed by the laws of the State of Florida.

46.02 In the event either party institutes litigation regarding or relating to this Contract or for breach of any of its terms all litigation and appeals shall have venue in Broward County, Florida or in the U.S. District Court for the Southern District of Florida.

46.03 To the fullest extent permitted by law, Owner, Contractor, and Contractor’s Surety do hereby each waive the right to trial by jury in any action or proceeding, including any counterclaims/crossclaims/third (or more remote) party complaints which may be brought by Owner, Contractor, or Surety, jointly and/or severally, arising out of or in any way related to this Construction Contract and/or attendant suretyship including, without limiting the generality thereof, any claim for damages resulting from any act or omission of Owner, Contractor, or Surety, jointly or severally, in any way connected with this Construction Contract.

ARTICLE 47. RIGHTS AND REMEDIES.

47.01 The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

ARTICLE 48. SUCCESSORS, ASSIGNS AND ASSIGNMENT.

48.01 The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party in respect to all covenants, agreements and obligations contained in the Construction Contract. It is agreed that the Contractor shall not assign, transfer, convey or otherwise dispose of the contract or its right, title and interest in and to the same or any part thereof, without previous consent of the Owner and concurred to by the Sureties.

48.02 If requested by Owner the Contractor agrees to assign all Subcontracts required for performance of this Contract to the Owner upon the Owner or Project Consultant's determination that Contractor has defaulted under the Contract Documents. The Contractor shall include in all Subcontracts, equipment leases and purchase orders a provision requiring the subcontractor, equipment lessor or supplier, in the event of Contractor's default under this Contract, to consent to the assignment of their subcontracts to the Owner.

ARTICLE 49. PUBLIC RECORDS.

49.01 The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law. Specifically, the Contractor shall:

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

b. Provide the public with access to such public records on the same terms and conditions that the City would provide the records and at a cost that does not exceed that provided in chapter 119, Fla. Stat., or as otherwise provided by law;

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

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

49.02 The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the City shall enforce the Default in accordance with the provisions set forth in Article 40.

SUPPLEMENTARY CONDITIONS

1. RELEVANT PROJECT EXPERIENCE

Bidders shall show specific project experience as a prime contractor for a minimum of three projects within the last three years of similar or greater complexity and construction cost. Reference contact information must be furnished for all drainage projects claimed as relevant experience under this requirement including: Project Name and Number, the municipality or government agency for whom the project was done, total project cost, when the project commenced and was completed, project manager with phone number, whether or not there were any changes to the contract cost or time, a complete list of warranty items that required attention after the completion of the project.

TECHNICAL SPECIFICATIONS

1. GENERAL

1.1. Scope of Work

The work under this Specification includes the furnishing of all design, permitting, labor, materials, equipment, documentation, supply of temporary systems, installation, training and startup services for the supply and installation of an upgrade to the existing sodium hypochlorite feed system at the City of Pompano Beach Utilities Reuse Treatment Plant, The Work is to be done at the City of Pompano Beach Reuse Treatment Plant located at 1799 North Federal Highway, Pompano Beach, Florida 33062. This site has restricted access. Bidders may contact the Utilities Administration Office at 954-545-7016 to schedule a site visit. The project shall be completed within 120 days of the Notice to Proceed being issued.

1.2. Work Specified Herein

A. Equipment

1. Bulk Storage Tanks
2. Chemical Metering Skids and Accessories
3. Chemical Metering Pump Controls
4. Piping
5. Spare Parts
6. One Prominent Metering Pump (spare)-Optional

B. Execution

1. Permitting (Including FDEP Permitting)
2. Supply of temporary chemical storage and feed equipment system
3. Installation of new equipment
4. Demolition of existing piping and equipment
5. Testing
6. Documentation (Record Drawings and O&M Manuals)

7. Startup and Training Services

1.3. Detailed Description of the Work

A. Background Information:

The City of Pompano Beach Reuse facility gets treated wastewater effluent from Broward County, treats it then stores it for distribution. The facility is rated for 7.5 MGD. The incoming water goes through headworks and then two sets of filters, is disinfected before being pumped to two on-site ground storage tanks of 2-million gallons and 4-million gallons. The water from the ground storage tanks is pumped out to the reuse distribution system for irrigation of medians, parks and residential properties. The plant typically supplies between 2.5 – 4 MGD of reuse for irrigation.

Sodium hypochlorite is added to the piping between the headworks and the filters and also to the inline piping between the filters and ground storage tanks. Both application points are in the ground inside vaults. The sodium hypochlorite system consists of: three Ace bulk storage tanks, two of which are rated for 3,000 gallons and one of which is rated for 7,000 gallons; three Prominent Sigma II pumps rated for 93 gph@58 psi and the associated piping between them. The discharge piping goes through two Rosemount flowmeters where it transitions to 1" tubing to go out to the two injection points. The sodium hypochlorite system is housed inside a large building. There are three large openings with louvers which would have to be removed to replace the tanks. The openings are 14'8" wide and 13'10" tall.

The purpose of this project is to upgrade the sodium hypochlorite system by replacing the existing bulk storage tanks, chemical feed equipment and all of the piping inside the Sodium Hypochlorite Room from the tanks to the flowmeters. Additionally, the contractor shall replace the sodium hypochlorite piping at each vault where the injection point is located including the injection quill.

B. Detailed Description of the Work:

The Owner agrees to remove and replace the louvers that provide access to change out the chemical storage tanks. The Contractor shall be responsible for all FDEP permitting and/or notification with the Broward County Health Department prior to starting any work. The Contractor shall setup a temporary sodium hypochlorite system to include a temporary double-walled storage tank of at least 2,500-gallon capacity and a triplex pump skid and temporary piping to the flowmeters. Once the temporary system is in place, the Contractor shall demolish and remove all of the existing sodium hypochlorite tanks, chemical feed equipment (saving the existing Prominent feed pumps to be re-used on the new duplex pump skids) and piping inside the sodium hypochlorite building. The Contractor shall then install the new tanks, new chemical feed equipment and all new piping inside the building up to the existing flow-meters. Additionally, the contractor shall replace the piping inside each injection vault including the injection quills.

1.4. Quality Assurance

A. Acceptable Suppliers

1. All of the equipment supplied hereunder shall be as specified. The supply of the chemical metering equipment shall be by Blue Planet Environmental. The existing Prominent Sigma II 93 gph metering pumps shall be re-used on the new chemical feed pump skids. One additional Prominent Sigma II 93 gph metering pump shall be supplied as an optional spare. The chemical feed skid shall be manufactured by Blue Planet Environmental to match the equipment at the other Pompano Beach facilities. All ball valves shall be Asahi Type 21 (viton o-rings for the hypochlorite) to match the other chemical feed systems at the Pompano Beach Utility facilities. The tanks may be manufactured by either Poly Processing, Assmann or Snyder. All equipment shall be manufactured by the vendor specified herein. If a manufacturer or fabricator is named in this Specification, there IS NO EXCEPTIONS OR APPROVED EQUALS TO USING THIS MANUFACTURER AS POMPANO BEACH UTILITIES DESIRES TO STANDARDIZE TO MINIMIZE THE AMOUNT OF SPARE PARTS AND REQUIRED OPERATOR TRAINING.

2. The Contractor shall be responsible for providing all permitting, equipment, accessories, spare parts, installation labor, documentation and startup and training services required for a complete and operational chemical feed system and thus shall demonstrate satisfactory experience in providing this level of support on at least ten other similar projects. **All installation work shall be performed by a licensed plumbing contractor who is experienced in chemical system installations.**

Equipment Testing

3. The chemical metering skids and feed equipment shall be assembled and water tested by the manufacturer prior to delivery. All functionality shall be tested.

4. The injection piping shall be pressure tested for four hours at 100 psi with less than 2 psi loss.

5. The chemical storage tanks shall be water tested for 24 hours prior to being placed into service.

B. Warranty

1. The Contractor shall provide a two (2) year parts and labor warranty for all of the Work supplied hereunder from the date of commercial operation. This warranty shall be in addition to and not in lieu of any warranties provided by the manufacturer of any of the equipment itself or any subcontractors.

1.5. Bid Submittals

A. Firm lump sum price to do the Work as specified herein.

B. List of any subcontractors and major equipment suppliers.

C. Submit a minimum of five separate references with contact names and phone numbers, where

substantially similar installations for the equipment and same chemical application as specified has been in satisfactory operation for a minimum of one year.

D. Submit a copy of Contractor's General Contractor's and Plumbing Contractor's license (or its subcontractor's Plumbing Contractor's license).

E. Submit a simple Bar Chart Schedule showing the Contractor's proposed schedule for the Work.

F. Installation Drawing showing how all equipment is to be installed in the Chemical Building.

G. Any Other Relevant Information from Contractor or its Subcontractors with respect to their qualifications or suitability to perform the Work

1.6. After Award Submittals

A. Submit and prepare all required permitting documents. The Contractor shall include the cost of all permits in their proposal price.

B. Submit equipment cut sheets for all of the equipment provided hereunder.

C. Submit Equipment layout drawings for the sodium hypochlorite system in the Chlorine Room.

D. Submit AUTOCAD shop drawings and product data for chemical feed equipment along with any other relevant product information.

E. Drawing Approval

1. Shop drawings shall be approved by the City of Pompano Beach Utilities prior to any manufacturing of the pump skids. Approval of drawings by Engineer shall not release the Contractor of responsibility of compliance with these Specifications. All proposed changes to these Specifications shall be stated in writing.

F. O&M Manuals

1. Three Copies of Operating and Maintenance (O&M) manuals prepared specifically for this project shall be provided. Manuals shall include all procedures, drawings, parts lists, special tools, recommended spare parts, sodium hypochlorite information, operational instructions, warranty statement and subcontractor warranties, etc. required to instruct personnel unfamiliar with such equipment to operate the system.

1.7. Service Conditions

A. Chemical name: Sodium Hypochlorite (NaOCl)

a. Concentration: 12.5 Trade Percent

b. Specific Gravity: 1.165

c. Maximum Temperature: 100˚ F

2. EQUIPMENT

2.1. General

The chemical metering systems shall be completely self-contained and designed to safely feed metered amounts of the chemicals as listed in subsection 1.7 Service Conditions. Each chemical metering skid shall include chemical metering pumps, accessories, controls and options as indicated in the Design Summary portion of this section. The chemical metering skids will be completely assembled and tested prior to delivery to the job site. All equipment shall be of materials selected specifically for use with all chemicals as listed in subsection 1.7 Service Conditions. The manufacturer shall supply the following pump skids and re-use three of the Owner's existing Prominent diaphragm pumps and provide an optional price to provide a fourth pump:

Skid Number	#1	#2
Chemical	Sodium Hypochlorite (NaOCl)	Sodium Hypochlorite (NaOCl)
# Pumps	Two – Prominent (*)	Two – Prominent (**)
Pump Motors	120 VAC Wash-Down Duty	120 VAC Wash-Down Duty
Primary Injection Points	Pre	Post
Type Pump	Mechanical	Mechanical
Separate Controller	No (Part of Pump)	No (Part of Pump)
Stroke Length	Manual	Manual
Stroke Rate	Automatic	Automatic
Pump Capacity (GPH)	93	93
Pump Pressure (PSI)	58	58
Piping Material	Schedule 80 PVC	Schedule 80 PVC
Type Valves	Asahi Type 21 Ball	Asahi Type 21 Ball
Gaskets / O-rings	Viton	Viton
Skid Piping Outputs	Two	Two
Options	HOA Panel	HOA Panel

(*) Metering pumps to be supplied by Owner.

(**) One metering pump to be supplied by Owner and one to be supplied by Contractor (OPTIONAL)

All other piping and ancillary materials shall be as described below.

2.2. Chemical Metering Skids

A. Chemical Metering Skids General Description

1. The chemical metering skid shall be constructed from white PVC sheets with a minimum trade thickness of 1/2". HDLPE OR POLYPROPYLENE IS NOT ACCEPTABLE MATERIALS OF CONSTRUCTION. The design of the skid shall include gussets and supports as required for all components and shall be self-supporting. All components of the chemical metering system shall be contained within the skid. The skids shall be manufactured using continuous welding technology; bolted construction is not acceptable. Pedestals shall be provided to elevate the metering pumps above the skid base for the sodium hypochlorite.

2. For each metering pump the piping system shall include the following: (1) pressure relief valve; (2) backpressure valve; (3) diaphragm protected pressure gauge; (4) flushing inlet; (5) flushing outlet; (6) pulsation dampener; (7) strainer; and (8) all required piping, valves and supports. Piping shall include isolation valves and unions for all serviceable components. The chemical supply piping shall allow for dual chemical inlets and a calibration column shall be provided and designed for use with any of the metering pumps. The discharge piping shall allow for each pump to serve two individual loads or a common load with backup (sodium hypochlorite only). The piping shall be attached to the chemical metering skid with a non-metallic corrosion resistant support system. All support channels shall be welded to the chemical metering skid, bolted or screwed supports are not acceptable. The straps shall be removable and reusable to allow for servicing of the system. All inlet/outlet connections, valves and pump accessories shall be clearly labeled on the skid.

3. A NEMA 4X terminal box shall be provided for the pump skids to be mounted on the wall for termination of all wiring. A power outlet with weatherproof cover shall be provided for any metering pumps or accessories that require an outlet. The inside cover of the terminal box shall include a wiring diagram detailing the function of all terminals. The NEMA 4X panel shall include a terminal board with surge suppression for the following I/O points: (1) 4/20 ma input signal; (2) 4/20 ma output signal; (3) Fault Relay; (4) remote ON/OFF; and (5) HOA switch not in remote. The power side of the panel shall contain an inlet 15 Amp breaker which feeds EDCO HSP121BT-1RU (120 VAC) Surge Suppression Unit which will feed the aforementioned outlets. The outside of the panel shall include a Hand/Off/Automatic (HOA) switch for each pump.

4. The chemical metering skids shall be completely assembled and tested by the

manufacturer prior to delivery to the job site. Each skid shall include FRP mounting brackets.

Accessories

5. Calibration Columns

a. A clear calibration column shall be provided in the chemical supply piping of each system. The piping shall be designed for the calibration column to be used with any of the metering pumps. The top of the calibration column shall allow for connection to rigid piping for "vent" return to supply container. The Contractor shall pipe the top of the calibration column on each skid back to a common vent back to the bulk storage tank. Calibration columns may also be used as de-gassing chambers. All materials shall be compatible with chemicals as listed in the Design Summary.

6. Pressure Relief Valves

a. Pressure relief valves shall be provided in the discharge piping of each sodium hypochlorite metering pump, prior to any valves, to eliminate the buildup of excess pressure in the system. The pressure relief valves shall be fully adjustable from 0 – 150 psi with bodies compatible with chemicals as listed in the Design Summary, Teflon diaphragm and have no metal parts in contact with the chemical. Output of the pressure relief shall return to suction side of the pumps.

7. Pulsation Dampeners

a. Gas charged pulsation dampeners shall be provided and sized for a minimum of 90% dampening for the sodium hypochlorite pumps. Pulsation dampeners shall include gas charge fitting and pressure gauge. The dampeners shall be installed in the discharge piping of each metering pump, as close to the metering pump discharge check valve as possible. *The pulse dampeners shall be a bolted flange design to the pump skid*. All materials shall be compatible with chemicals as listed in the Design Summary.

8. Diaphragm Protected Pressure Gauges

a. 2" liquid filled pressure gauges with isolators shall be provided for indication of system pressure in the discharge piping of each metering pump. Industrial quality all 316 Stainless Steel gauges shall be utilized. The isolators shall have housings compatible with chemicals as listed in the Design Summary with a Teflon diaphragm and suitable liquid fill.

9. Back Pressure Valves

a. Back pressure valves shall be provided in the discharge piping of each sodium hypochlorite metering pump to provide a constant back pressure at the chemical metering pump discharge. The back pressure valves shall be fully adjustable from 0 – 150 psi with bodies compatible with chemicals as listed in the Design

Summary, Teflon diaphragm and have no metal parts in contact with the chemical

Piping

10. Polyvinylchloride (PVC)

a. This specification covers pipe and fittings for pressurized pipe systems manufactured of Rigid Poly (Vinylchloride) (PVC) material as described below. Fittings covered under this specification include heavy-duty Schedule 80 fittings molded of the material described below. Fittings covered under this specification are tees, elbows, couplings, reducer bushings, crosses, adapters, plugs, caps and flanges.

b. All pipe and fittings shall bear the company's name or trademark, material designation, size, applicable IPS schedule, and the NSF mark as indicative of compliance with this specification.

c. All fittings shall be injection molded of PVC fitting compound of cell classification 12454-B as described in ASTM D- 1784 Standard Specification for Rigid Poly (Vinylchloride) Compounds.

d. All material used in pipe and fittings for potable water supply shall be listed for such applications by National Sanitation Foundation Laboratories, Inc. (NSF). Workmanship shall be in accordance with good commercial practice. Fittings shall be homogeneous throughout and free from visible cracks, holes, foreign inclusions or other injurious defects. The fittings shall be commercially uniform in color, opacity, density and other physical properties.

e. All molded threads, internal or external, shall be "blunt start" threads. All threads shall conform to thread standard ANSI/ASME B1 .20.1 for tapered pipe threads. Threads shall measure not more than 11/2 threads large or small when checked with a plug gauge or ring gauge.

f. Dimensions and tolerances of sockets shall conform to PVC IPS Schedule 40/80 Socket Dimensions. All reducer bushings shall be designed so as to provide for a positive and sufficient grip for cementing bushings in place. 4.3.2 Waterways shall be smooth and commercially free of flash and irregularities. On tees and 90° elbows, bond lines shall not coincide with the maximum stress area (crotch).

g. Assembly shall be performed in a controlled shop environment by the skid manufacturer. All pipes shall be squarely cut on precision equipment with the ends chamfered and deburred. All socket welded connections shall follow the guidelines set by the pipe/fitting manufacturer for proper cleaning, priming and gluing procedures. A heavy bodied solvent suitable for use with all chemicals as listed in the Design Summary shall be used. All threaded connections will utilize Teflon tape, a suitable thread sealant or a combination of both. Threaded

connections shall utilize stainless steel reinforcement rings where applicable to reduce the risk of cracking.

Valves

11. Type 21 Ball Valve

a. All TYPE 21 Ball Valves, sizes 1/2” to 4”, shall be of true union design with two-way blocking capability. All O-rings shall be viton (a.k.a. FKM) with PTFE seats for the hypochlorite and EPDM for the ammonia. PTFE seats shall have elastomeric backing cushion of the same material as the valve seals. Stem shall have double O-rings and be of blowout-proof design. The valve handle shall double as carrier removal and/or tightening tool. ISO mounting pad shall be integrally molded to valve body for actuation. The ball valves shall have a pressure rating of 230 psi for sizes”1/2” to 3” and 150 psi for 4” at 70 º F. Type 21 Ball Valves must carry a two-year guarantee, as manufactured by Asahi/America, Inc.

b. All ball valves used for sodium hypochlorite service shall be vented to avoid entrapment of vapors.

2.3. Chemical Metering Pumps – Three of Four To Be Supplied By Owner

A. Mechanical Chemical Metering Pumps

1. The chemical metering pump(s) shall be motor-driven, reciprocating, mechanically-actuated diaphragm type. The pump shall include motor, oil-lubricated gear reducer and cam-and-spring drive mounted in aluminum housing, coated with a chemical resistant two-part epoxy finish. The pump shall be of a modular design to accommodate add-on pumps powered by a single electric motor.

2. The chemical metering pump manufacturer shall provide a two year warranty on the pump drive and one year warranty on the pump liquid end, including diaphragm and O-rings.

3. The pump shall be fully tested to meet rated flow and pressure by the manufacturer.

4. The pumps shall be equipped with a wash-down, inverter duty TEFC motor. The power supply for the motor shall be 120 VAC, 60 Hz, Three Phase. The HP of the motor shall be compatible with the existing VFD.

5. The liquid end shall be physically separated from the drive unit by back plate with weep hole creating an air gap. An elastomer shaft wiper seal shall prevent contamination of the solenoid if the primary diaphragm fails. The diaphragm shall be nylon-reinforced EPDM with PTFE-faced fluid contact surface.

6. The liquid end, suction and discharge valves and valve balls shall be compatible with chemicals as listed in the Design Summary.

7. For all pumps supplied without any analog or digital input or output capability, fixed speed, wash-down duty motors of the appropriate HP and voltage shall be provided. For all pumps supplied with any analog or digital input or output capability, inverter rated, wash-down duty motors of the appropriate HP and voltage shall be provided.

8. The pump's motor shall be regulated by an existing internal controller. Stroke length shall be adjustable manually by means of a stroke length know, in increments of 1%, from 0% to 100% of stroke length.

2.4. Chemical Storage Tanks

A. Scope of Work

1. This subsection covers the supply of an upright, single wall, flat bottom high density linear polyethylene resin (e.g., HDLPE) 5,500-gallon bulk storage tank for storage of sodium hypochlorite. The tank shall be a molded in one-piece seamless construction by rotational molding. The tank shall be designed for above-ground, vertical installation and capable of containing chemicals at atmospheric pressure. Included in this specification are requirements for material properties, design, construction, dimensions, tolerances, workmanship, and appearance. The tank shall have approximate dimensions of 10’ in diameter and 12’ high.

2. The use of a manufacturer’s name and model or catalog number is for the purpose of establishing the standard of quality and general configuration desired.

3. Like items of materials, equipment shall be the end products of one manufacturer in order to provide standardization for appearance, operation, maintenance, spare parts, and manufacturer’s service.

B. Applicable Documents

1. ASTM (American Society for Testing and Materials) Standards:

D618 Conditioning Plastics and Electrical Insulating Materials for Testing
D638 Tensile Properties of Plastics
D790 Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
D883 Definitions of Terms Relating to Plastics
D1505 Density of Plastics by the Density-Gradient Technique
D1525 Test Method for Vicat Softening Temperature of Plastics
D1693 Test Method for Environmental Stress-Cracking of Ethylene Plastics
D1998 Standard Specification for Polyethylene Upright Storage Tanks
D2765 Degree of Crosslinking in Crosslinked Ethylene Plastics as Determined by Solvent Extraction
D2837 Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials
D3892 Practice for Packaging/Packing of Plastics
F412 Definitions of Terms Relating to Plastic Piping Systems

2. ARM (Association of Rotational Molders) Standards:

   Low Temperature Impact Resistance (Falling Dart Test Procedure)

3. ANSI Standards:

   B-16.5 Pipe Flanges and Flanged Fittings

4. OSHA Standards:

   29 CFR 1910.106 Occupational Safety and Health Administration, Flammable and Combustible Liquids

5. UBC CODE:

   Uniform Building Code 1997 Edition

C. Chemical Compatibility

1. Chemical compatibility shall be according to the following chemical resistance guides:

   Pruett, Kenneth M., “Chemical Resistance Guide for Elastomers", Compass Publications.

   Pruett, Kenneth M., "Compass Corrosion Guide II", Compass Publications.

2. These references shall be considered as general guidelines only. In many cases, combinations of these chemicals are used in such a way that only the customer (by testing molded product samples) can make a determination in regards to acceptability.

D. Materials

1. The material used shall be virgin polyethylene resin as compounded and certified by the manufacturer. The tanks shall be made from linear polyethylene resin as manufactured by Exxon Chemical, or resin of equal physical and chemical properties.

2. All polyethylene resin material shall contain a minimum of a U.V. 8 stabilizer as compounded by the resin manufacturer. Pigments may be added at the purchaser's request, but shall not exceed 0.25% (dry blended) of the total weight.

3. Mechanical Properties of Type II tank material:

PROPERTY	ASTM	VALUE
Density (Resin)	D1505	0.940-0.947 g/cc
Tensile (Yield Stress 2"/min)	D638	2700 PSI
Elongation at Break (2"/min.)	D638	350%
ESCR (100% Igepal, Cond. A, F50)	D1693	400-1000 hours
ESCR (10% Igepal, Cond. A, F50)	D1693	200-500 hours

Vicat Softening Degrees F. Temperature	D1525	235
Flexural Modulus	D790	97,000 – 103,000 PSI

E. Design Requirements

1. The minimum required wall thickness of the cylindrical shell at any fluid level shall be determined by the following equation, but shall not be less than 0.187 in. thick.

   T = P x O.D. /2 SD = 0.433 x S.G. x H x O.D. /2 SD

   T = wall thickness
   SD = hydrostatic design stress, PSI
   P = pressure (.433 x S.G. x H), PSI
   H = fluid head, ft.
   S.G. = specific gravity, g/cm^3
   O.D. = outside diameter, in.

   a. The hydrostatic design stress shall be determined by multiplying the hydrostatic design basis, determined by ASTM D2837 using rotationally molded samples, with a service factor selected for the application. The hydrostatic design stress is 600 PSI at 73 degrees Fahrenheit for Type I and Type II materials. In accordance with the formula in 6.1, the tank shall have a stratiform (tapered wall thickness) wall.

   b. The hydrostatic design stress shall be derated for service above 100 degrees Fahrenheit and for mechanical loading of the tank.

   c. The standard design specific gravity shall be 1.9.

2. The minimum required wall thickness for the cylinder straight shell must be sufficient to support its own weight in an upright position without any external support.

F. Dimensions and Tolerances

1. All dimensions will be taken with the tank in the vertical position, unfilled. Tank dimensions will represent the exterior measurements.

   a. The tolerance for the outside diameter of the primary tank, including out of roundness, shall be per ASTM D1998.

   b. The tolerance for fitting placements shall be +/- 0.5 in. in elevation and 2 degrees radial at ambient temperature.

G. Test Methods

1. Test specimens shall be taken from fitting location areas or piggy-back test molds.

2. Low Temperature Impact Test

   a. Test specimens shall be conditioned at -40 degrees Fahrenheit for a minimum of 2 hours.

b. The test specimens shall be impacted in accordance with the standard testing methods as found in ASTM D1998. Test specimens < 1/2" thickness shall be tested at 100 ft.-lb. Test specimens > 1/2" thickness shall be tested at 200 ft.-lb.

3. Ultrasonic Tank Thickness Test

a. All tanks shall be measured for tank wall thickness at 6", 1ft., 2ft. and 3ft. on the tank sidewall height at 0° and 180° around the tank circumference with 0° being the tank manway and going counter-clockwise per ANSI standard drafting specifications. A copy of this test report can be ordered when placing the original tank order. All tanks shall meet design thickness requirements and tolerances.

4. Hydrostatic Water Test

a. The hydrostatic water test shall consist of filling the tank to brim full capacity for a minimum of four hours and conducting a visual inspection for leaks. A hydrostatic water test will be conducted if ordered by the customer.

5. The tank shall be visually inspected to determine such qualities as are discussed in below under subsection H. Workmanship.

H. Workmanship

1. The finished tank wall shall be free, as commercially practicable, of visual defects such as foreign inclusions, air bubbles, pinholes, pimples, crazing, cracking and delamination's that will impair the serviceability of the vessel. Fine bubbles are acceptable to the degree in which they do not interfere with proper fusion of the resin melt.

2. All cut edges where openings are cut into the tanks shall be trimmed smooth.

I. Tank Fittings (Nozzles)

1. Top Fittings - Threaded Bulkhead

The bulk storage tanks shall be supplied with 2 separate 4" bulkhead fitting on the top for a vent and level indicator connections and a 2" bulkhead fitting on top for a fill connection. The bulkhead fittings shall be constructed of PVC. Gaskets shall be a minimum of 1/4" thickness and constructed of 60-70 durometer Viton.

2. Side Fittings – Bolted Flanged Connection

a. A 2" titanium Bolted Flanged Connection with a viton gasket shall provide a seal for the bottom fitting. The heads of the bolts shall be encapsulated in HDLPE. Gaskets shall be a minimum of 1/4" thickness. Siphon tubes shall be added to the flanged fittings specified above. A siphon tube will allow these fittings, when used as drainage fittings, to provide better tank drainage.

J. Tank Attachments

1. Tank Attachments - Manway

a. Manways shall be a minimum opening of 22" safe surge or pop-up style. All manways shall be constructed of polyethylene material.

K. Tank Accessories

1. None.

L. Marking, Packing and Packaging

1. The tanks shall be marked to identify the product, date (month and year) of manufacture, capacity, and serial number. The tank shall be shipped with a 3 of 9, HRI bar code label containing tank description, manufacturing order number, part number, serial number, manufacturer, and date.
2. The proper caution or warning signs as prescribed by OSHA standard 29 CFR 1910.106 shall be customer determined and supplied.
3. All packing, packaging, and marking provisions of ASTM Practice D3892 shall apply to this standard.
4. All fittings shall be installed, removed and shipped separately.

M. Installation

1. Install the high density linear polyethylene tanks in accordance with the Drawings and the manufacturer's instructions.
2. All fitting connections must be installed with flexible type connections as per the Manufacturers recommendations.
3. Make all pipe connections to tanks as shown on the Drawings.
4. Following the field test, tanks and support members shall be anchored in their final position according to the manufacturer's recommendations.

N. Field Testing

1. After installation, each tank connecting pipes, and valving shall be field tested by filling with water. The tank and fittings shall hold water without loss, evidence of weeping or capillary action for a period of 24 hours prior to acceptance. The Owner may also inspect each tank for defects, damage, and conformance with the Specifications.
2. Should any defects become evident during inspection, testing, or within the guarantee period, the Contractor shall repair or replace the defective tank or fitting as approved by the Owner.

2.5. Miscellaneous Equipment

A. Chemical Feed Piping

1. The Contractor shall furnish and install all chemical feed piping for the storage tanks and between the storage tanks and the pump skid (that was not replaced this previous Fall) and between the pump skid and the injection point including all valves, ball check valves and pipe supports. All valves shall be the ASAHI valves described previously. All piping and socket welding shall be as described previously. All pipe supports shall be FRP uni-strut with PVC clips or PVC clicks on minimum of 48" centers. All piping shall be Schedule 80 PVC. Contractor shall install flexible PVC piping on the discharge of the sodium hypochlorite bulk storage tank to allow for expansion and contraction of the tanks upon filling and emptying.

2.6. Spare Parts

A. Spare Parts

Provide the following spare parts to Pompano Beach upon delivery and installation of the equipment. Spare parts shall include all parts required for (2) years of normal maintenance of all components of the chemical metering system. All parts shall be in one box labeled with the Project Information:

a. (1) Maintenance kit for each chemical metering pump. Maintenance kits shall include but not be limited to diaphragm, check valve seats, gaskets and o-rings.

b. (4) spare backpressure/pressure relief valve diaphragms

c. (1) Spare pulse dampener boot

d. (1) Spare 1" ball valve

e. (1) Spare 1" Spears union slit to slip

f. (1) Spare 2" ball valve

3. EXECUTION

3.1. Permitting

(FDEP Permitting): The Contractor shall prepare all required Florida Department of Environmental Protection (FDEP) permitting and/or notification documents. The Contractor shall be responsible for any and all activities relating to obtaining any required permits. Upon completion of the work, the Contractor shall prepare all documents relating obtaining any required FDEP Clearance including the record drawings and O&M manuals. The Contractor shall pay the costs for any permitting.

3.2. Installation

A. (System Demolition) The Contractor shall be responsible for demolition and disposal of the existing sodium hypochlorite storage and chemical feed equipment and its associated piping.

B. (Temporary Feed Equipment Installation and Piping) The Contractor shall furnish and install a temporary 2,550-gallon double-walled tank outside the Chemical Building and a three pump skid outside of the Chemical Building and tie them together and into the existing chemical injection line flowmeters. The Contractor shall satisfactorily test this system and place it into operation. Once the plant personnel are satisfied with the operation of the temporary system (approximately one week), the Contractor shall then demolish the existing storage and feed equipment and its associated piping and replace it.

C. (Tank Installation) The sodium hypochlorite tanks shall be placed on the existing housekeeping pads. The 4" vent for each tank should be run out to the ceiling and tied together for each tank and run outside the building. The end of the common vent line should have a bug screen. The 2" fill line for each tank should be run along the south wall and around to the east wall and tied together in a common manifold. The 2" outlet on each tank should be tied together to a common manifold to feed the new pump skid. Each tank should have an isolation valve, flexible connection, a second isolation valve and a drain valve on the header from each tank. The Owner reserves the right to delay the Contractor's installation of the new tanks for up to sixty days after the tank demolition in the event that the Owner wants to make repairs and/or recoat the containment area. There will be no additional monies paid by the Owner to the Contractor for such delay and Contractor should build the potential of this delay into their pricing.

D. (Pump Skid Installation) The sodium hypochlorite chemical pump skids shall be installed in the Chlorine Room adjacent to its associated bulk storage tanks. The skids shall be installed in compliance with the manufacturer's instructions. The Contractor shall be responsible for the electrical wiring to the chemical feed pumps on the skid from the existing VFD and TBJ panels (new wiring shall be installed from the SCADA RTU to the Control Panel for the fourth pump). The Contractor shall run a 1" Schedule 80 PVC line from the top of the calibration column back to the top of the nearest bulk storage tank.

E. (Injection Piping) The Contractor shall run the permanent 1" Schedule 80 PVC chlorination lines out of the sodium hypochlorite pump skid to the two existing flowmeters going out to the injection points. Contractor shall replace the piping inside each injection vault at the end of the injection piping. The end of the injection lines shall be reduced and have a ½" isolation ball valve and a ½" backpressure valve going to an injection quill. The end of the line extending into each of these locations shall be on a ½" union to facilitate removal of the line for cleaning any calcification on the end of the line. All valves, piping and pipe supports shall be as previously specified.

3.3. Services

A. The piping shall be pressure tested for a minimum of four hours at 100 psi before being placed into service. The acceptable pressure gage movement is less than 2 psi or the test shall be re-performed.

B. Upon completion of the entire installation, a full operating test shall be performed in the presence of the Pompano Beach Utilities designated personnel. The Contractor shall furnish all labor, materials and equipment required for such test and shall correct any deficiencies noted.

C. The Contractor shall provide two four hour training sessions for Pompano Beach Utilities personnel to include two hours of classroom training on disinfection and chemical handling, safety and basic system operations.

D. The Contractor shall provide unlimited startup services as required to startup and operate the system.

E. The Contractor shall provide one electronic and three hard copies of O&M manuals for the entire sodium hypochlorite system to include the existing equipment.

*****END OF TECHNICAL SPECIFICATION*****

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SECTION 01720

PROJECT RECORD DOCUMENTS

PART 1 GENERAL

1.01 THE REQUIREMENT

A. The CONTRACTOR shall at all times maintain at the site of the project a record copy of:

1. Drawings
2. Specifications
3. Addenda
4. Change Orders and other modifications to the Contract.
5. Approved Shop Drawings, Product Data and Samples.
6. Field Test Records.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. All applicable sections of the Specifications.

B. General conditions.

1.03 MAINTENANCE OF DOCUMENTS AND SAMPLES

A. Store documents and samples in CONTRACTOR'S field office apart from documents used for construction.

1. Provide files and racks for storage of documents.
2. Provide locked cabinet or secure storage space for storage of samples.

B. File documents and samples in accordance with CSI format.

C. Maintain documents in a clean, dry, legible condition and in good order. Do not use record documents for construction purposes.

D. Make documents and samples available at all times for inspection by CITY'S Representatives.

1.04 MARKING DEVICES

A. Provide felt tip marking pens for recording information in the color code designated by PROGRAM MANAGER.

1.05 RECORDING

Definition: The Project Record is the updated and revised plans and specifications, including a running account of all known revisions and changes made to the original plans

and specifications, complete with copies of any field sketches and clarifications, issued over the course of construction. The Project Record is the responsibility of the CONTRACTOR.

A. The CONTRACTOR shall label each document, "PROJECT RECORD" in neat large printed letters, or by rubber stamp.

B. Record information concurrently with construction progress. Do not conceal any work until required information is recorded.

C. Drawings: Legibly mark to record actual construction:

1. Horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
2. Location of internal utilities and appurtenances concealed in the construction, referenced to visible and accessible features of the structure.
3. Field changes of dimension and detail.
4. Changes made by Field Order or by Change Order.
5. Details not on original Contract Drawings.
6. The Record Drawing set shall show benchmark positions and their vertical values. Benchmarks are optional for Plan Views, but required for Profile Views.

D. Specifications and Addenda; Legibly mark each Section to record:

1. Manufacturer, trade name, catalog number, and supplier of each produce and item of equipment actually installed.
2. Changes made by field order or by Change Order.

1.06 RECORD DRAWINGS

Definition: The Record Drawings are a revised set of drawing submitted by a contractor upon completion of a project. They reflect all changes made in the specifications and working drawings during the construction process, and show the exact dimensions, geometry, and location of all elements of the work completed under the contract.

A. The CONTRACTOR shall maintain full size (24"X 36") project record to reflect the "record" items of work as the work progresses. Upon completion of the work, the CONTRACTOR shall prepare a set of record drawings on full-size, reproducible material and an electronic file in (DWG format, AutoCAD, Version 2011 or more recent version OR GIS). The record drawings will, in the greatest possible detail, reproduce the exact final conditions of the entire project. Including, but not limited to, final survey, utilities, architecture, structural, civil conditions, electrical, mechanical, paving, landscaping, irrigation, updating all details and all notes, parking, and any other plans related to a specific project. For the purpose of producing the final record drawings, based on the project record, the CONSULTANT will furnish one set of full size design drawings on reproducible material and an electronic file (DWG format, AutoCAD, Version 2011 or more recent version OR GIS) to the CONTRACTOR on compact disk or any other electronic means.

Definition: Design drawings or construction drawings, are drawings that are subject to clarifications, but are complete with enough information (plan, sections, dimensions,

details, and notes, ect.) to enable the depicted item's construction or replication without additional information.

B. At a minimum the project record shall be reviewed on the 20th working day of every third month, or more often, as deemed necessary by PROGRAM MANAGER, after the month in which the final Notice-to Proceed is given as well as on completion of WORK. Failure to maintain the project record up-to-date shall be grounds for withholding monthly progress payments until such time as the record drawings are brought up-to date.

C. The project record shall be accessible to the CITY at all times during construction period.

D. The cost of maintaining record changes, and preparation of the record drawings shall be included in the unit prices bid for the affected items. Upon completion of the WORK, the CONTRACTOR shall furnish the PROGRAM MANAGER the set of record drawings on full-size, reproducible material and an electronic file in (DWG format, AutoCAD, Version 2011 or more recent version OR GIS) Pay request quantities must match this same set of record drawings . The completed Record drawings shall be delivered to the PROGRAM MANAGER at least 48 hours prior to final inspection of the work. The Final Inspection will not be conducted unless the Record Drawings are in the possession of the PROGRAM MANGER.

E. The completed (or final) record drawings shall be certified by a Professional Land Surveyor, a registered and licensed Architect, a registered and licensed Engineer, a registered and licensed Landscape Architect, registered in the State of Florida. This certification shall consist of the professional discipline official's embossed seal bearing the professional discipline official's registration number, signature and date on each sheet of the drawing set. In addition, the key sheet, cover sheet or first sheet of the plans set shall list the business address and telephone number for all of the professional discipline officials.

F. Representative items of work that should be shown on the record drawings as verified, changed or added are shown below:

1. All deviations from condition shown in the Construction Documents including Change Orders, Field Orders and other varying conditions.
2. Every utility (gas, telephone, power, water, force main, etc.) encountered and/or crossing drainage, water or sanitary sewer facilities (whether it is a conflict or has sufficient clearances) shall be located, both horizontally and vertically. The clearance between the facilities horizontal and vertical shall be noted. For instance, if a 2-inch gas main crosses over the top of a 6-inch potable water main, the bottom elevation of the gas main shall be noted and the top of the water main shall be noted. The difference between the two facilities will be the clearance between the two facilities. Parallel mains shall note the clearance between the outside of the mains. It shall be the CONTRACTOR's responsibility to note these crossings on a daily basis and insure that this information is reflected on the Record Drawing plan set. Crossings will not require state plane coordinates.
3. Pipelines that are "dead" or have been abandoned shall be located during construction and shall be annotated Record Drawing Plans.
4. As-built survey drawings shall meet applicable minimum technical standards for land surveys as outlined in Section 61G17 of the Florida Administrative Code.

NOTE: For technical information on AutoCAD and GIS, please refer to the "Electronic As Built Requirements" located on the City Engineering Website.
http://pompanobeachfl.gov/pages/department_directory/public_works/engineering_division/engineering division.html.php

PART 2 -PRODUCTS (Not Applicable)

PART 3 -EXECUTION (Not Applicable)

END OF SECTION -01720