

City of North Port



Issued For Construction

No. 2025-43

INFLOW AND INFILTRATION MITIGATION
COMMUNITY DEVELOPMENT BLOCK GRANT-
MITIGATION



**NOTICE OF AVAILABILITY OF BID SPECIFICATIONS
RFB NO. 2025-43
INFLOW AND INFILTRATION MITIGATION
COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION**

The City of North Port is requesting sealed bids to secure the services of an experienced, professional, licensed, and qualified Contractor capable of providing construction services in accordance with the Inflow and Infiltration (I/I) mitigation of sanitary sewers and manholes. The City intends to select one Contractor for I/I rehabilitation services associated with an US Department of Housing and Community Development (HUD) Community Development Block Grant-Mitigation (CDBG-MIT) through FloridaCommerce that the City has received. The types of rehabilitation work anticipated include sewer line cleaning, manhole rehabilitation, manhole lining systems, cured-in-place pipe lining and spot repairs, grouting lateral connections, and post-rehabilitation CCTV inspection.

NON-MANDATORY PRE-BID MEETING: **October 27, 2025, AT 10:00 AM
4970 CITY HALL BOULEVARD, FINANCE DEPARTMENT ROOM 337A, NORTH PORT, FLORIDA 34286**

All potential Bidders are recommended to attend the non-mandatory pre-bid conference; and site visit will be conducted to answer questions regarding the bid requirements. The purpose of the Pre-Bid Meeting is to provide a briefing on the City's expectations and performance requirements for submission of Bid documents. Site visit will follow.

BID OPENING: **December 17, 2025, AT 2:00 PM
4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286**

****ALL BIDS ARE DATE AND TIME STAMPED IN THE FINANCE DEPARTMENT, SUITE 337 FIRST AND THEN ARE OPENED IN SUITE 337A****

Information regarding this project may be viewed and downloaded from Demandstar's website at www.demandstar.com. The only place to obtain the addenda is on www.demandstar.com. Links to DemandStar are also available from the City website at www.Northportfl.gov. Bid specifications, attachments/exhibits are posted on the City FTP site at www.northportfl.gov/filesshare (**select the Purchasing Folder and scroll to Project RFB 2025-XX**). If you have any questions, concerns, or problems accessing the bid package using the link, please contact Keith Raney, Contract Administrator II at 941.429.7103. Requests for additional information or clarification regarding the specifications must be sent via email to purchasing@northportfl.gov. No verbal requests will be honored. All questions and clarifications must be submitted via e-mail by **November 6, 2025**

The City of North Port does not discriminate on the basis of race, color, national origin, sex, age, disability, family or religious status in administration of its programs, activities or services.

This is a federally assisted project and is subject to Federal Labor Standards which include, the Davis-Bacon Act (payment of prevailing wage rates) and the Copeland Act (anti-kickback of wages & submission of weekly certified payroll reports), as well as other provisions including 24 CFR 85.36 (bonding requirements), and Section 3 & M/WBE. Laborers and mechanics employed by primary contractors and sub-contractors performing construction work on this project shall be paid wages at rates not less than the prevailing rates as determined

documentation for the duration of the project and may be held liable for wage restitution. The applicable information regarding the laws and regulations stated above are included in the bid packet.

PUBLISH DATES: October 17, 2025

- Herald Tribune & Department of Labor
- www.Northportfl.gov & www.demandstar.com
- [Small Business Administration, Minority Business Development Agency of the Department of Commerce](#)

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EXHIBITS

ATTACHMENTS:

- 1A. Technical Specifications (236 Pages)
- 1B. Bid Form (1 page, also available in Excel format)
- 1C. Maps

STATEMENT OF NON-SUBMITTAL

If you **do not** intend to submit a bid on this service, please return this form (see information below) immediately.

We, the undersigned, have declined to submit a bid on the requested Request for Bid **2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION**

_____ Insufficient time to respond to the Request for Bid.

_____ We do not offer this product/service.

_____ Our schedule would not permit us to perform.

_____ Unable to meet bond/insurance requirements.

_____ Specifications are unclear (explain below).

_____ OTHER (please specify below).

REMARKS: _____

COMPANY NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE: _____ FAX: _____

E-MAIL ADDRESS: _____

SIGNATURE: _____

DATE: _____

Note: "Statement of No Bid" may be faxed or e-mailed to the Purchasing Division at purchasing@Cityofnorthport.com.

SECTION I. INSTRUCTIONS TO BIDDERS

THESE CONDITIONS ARE STANDARD FOR ALL BIDS FOR COMMODITIES/SERVICES ISSUED BY THE CITY OF NORTH PORT. THE CITY OF NORTH PORT MAY DELETE, SUPERSEDE OR MODIFY ANY OF THESE GENERAL CONDITIONS FOR A PARTICULAR CONTRACT BY INDICATING SUCH CHANGE IN SPECIAL CONDITIONS TO BIDDERS OR IN THE BID SHEETS. ANY AND ALL SPECIAL CONDITIONS THAT MAY VARY FROM THE GENERAL CONDITIONS SHALL HAVE PRECEDENCE. BIDDER AGREES THAT THE PROVISIONS INCLUDED WITH THIS REQUEST FOR BID SHALL PREVAIL OVER ANY CONFLICTING PROVISIONS WITHIN ANY STANDARD FORM CONTRACT OF THE BIDDER REGARDLESS OF ANY LANGUAGE IN BIDDER'S CONTRACT TO THE CONTRARY.

DEFINITIONS: Terms used in these Instructions to Bidders are defined and have the meanings assigned to them.

- **Addenda:** a written change to a solicitation
- **Bid:** any offer submitted in response to this request for Bid.
- **Bidder:** One that submits a bid in response to this Request for Bid.
- **Bid Documents:** Includes the General Terms and Conditions: Special Conditions: Technical Specifications, the Bid Form: Non-Collusive Affidavit: Public Entity Crime Form: Certificate(s) of Insurance, if required: Payment and Performance Bonds, if required: Corporate Resolution: Bid Bond, if required: Local Business Affidavit, Scrutinized Company Affidavit and Certification and all Addendums issued prior to receipt of bids.
- **City:** Shall refer to City of North Port, a municipal corporation of the State of Florida.
- **Contract:** The agreement to perform the services set forth in this solicitation. The Contract will be comprised of the Bid documents signed by both parties including any addenda and other attachments specifically incorporated.
- **Responsible:** Refers to a Bidder that has the capacity and capability to perform the work required under a Request for Bid and is otherwise eligible for award.
- **Responsive:** Refers to a bid that contains no exceptions or deviations from the terms, conditions, and specifications set forth in the Request for Bid.
- **Request for Bid (RFB):** Shall mean this solicitation document, including any and all addenda. A RFB contains well-defined terms, conditions, and specifications, and is awarded to the lowest priced responsive and responsible Bidder.
- **Solicitation:** The written document requesting either bids or proposals from the marketplace.
- **Successful Bidder(s):** The lowest responsive, responsible Bidder(s) to whom City (on basis of City's evaluation) makes an award.
- **Vendor or Contractor:** A general reference to any entity responding to this solicitation or performing under any resulting Contract.

The City has established for purposes of this Request for Bid (RFB) that the words "shall," "must," or "will" are equivalent and indicate a mandatory requirement or condition, the material deviation from which shall not be waived by the City. A deviation is material if, in the City's sole discretion, the deficient response does not substantially satisfy this RFB's mandatory requirements. The words "should" or "may" are equivalent in this RFB and indicate very desirable conditions, or requirements that are permissive in nature.

1. INSTRUCTIONS TO BIDDERS

A. QUALIFICATIONS OF BIDDER: It is intent to the City to award this Contract to the lowest responsible Bidder, qualified by experience and solvency, with proven reliability and the ability to provide the services or items required under this Contract within a reasonable time frame acceptable to the City. Bidder may be required to supply information in writing at the request and discretion of the City prior to award of bids, in order to verify above requirements.

B. EXAMINATION OF BID DOCUMENTS: Prior to submission of a bid form, Bidders shall carefully examine the General

Terms and Conditions, Special Conditions, Technical Specifications, and all other related bid documents, including all modifications thereof, incorporated in the bid package, plus fully informing themselves as to all existing conditions and limitations that effect the work to be performed under this Contract.

Discrepancies, omissions, or questions about the intent of the documents should be submitted to the Purchasing Division in written form as a request for interpretation no later than five business (5) days prior to bid opening (or shall be verbally addressed at the pre-bid conference, if applicable).

It shall be the responsibility of the Bidder, prior to submitting their response, to either visit www.demandstar.com to view the solicitation and download all issued addenda or contact Purchasing to determine if addenda were issued.

Examination of site: Prior to submitting a bid form, each Bidder may examine the site and all conditions thereon. All bid forms shall be presumed to include all such existing conditions as may affect any work to be done on this project. Failure to familiarize himself with such conditions will in no way relieve the successful Bidder from the necessity of furnishing any materials or performing any work that may be required to complete the work in accordance with the Specifications.

C. CLARIFICATION AND ADDITIONAL INFORMATION: Discrepancies, omissions, or questions about the intent of the documents will be submitted to the City of North Port Purchasing Manager, or his/her designee in written form as a request for interpretation no later than five (5) business days prior to the bid opening (or may be verbally addressed at the pre-bid meeting, if applicable).

Interpretations made will be in the form of an addendum to the documents, which will be forwarded to all Bidders. Receipt by each Bidder must be acknowledged on the bid form, indicating the addendum number and date of issue, therein becoming part of the Contract. No oral explanations shall be binding. The City will attempt to notify all prospective Bidders of addenda issued to the bid documents; however, it shall be the responsibility of the Bidder, prior to submitting their bid, to contact the Purchasing Manager, or his/her designee, to determine if addenda were issued, acknowledging and incorporating it into their bid.

D. MODIFICATION OR WITHDRAWAL OF BIDS: Bid modifications will be accepted from a Bidder only if received in writing, properly signed by an officer of the Bidder, and received prior to the opening of bids. Bid modifications must be identified as such and will be opened with the Bidder's bid form.

Bids may be withdrawn by request of the Bidder prior to the time fixed for opening. Error or negligence on the part of the Bidder in preparing the bid confers no right for the withdrawal of the bid after it has been opened.

E. NO BID: A respondent who is on the bid notification list and decides not to submit a response is requested to complete the Statement of Non-Submittal Form and return it to the City.

F. CONFLICTS WITHIN SOLICITATION: Where there appears to be a conflict between the General Terms and Conditions, Special Conditions, the Technical Specifications, the Bid Form, or any addendum issued, the order of precedence shall be: the last addendum issued, the Bid Form, the Technical Specifications, the Special Conditions, and then the General Terms and Conditions. It is incumbent upon the vendor to identify such conflicts to the designated purchasing representative prior to the bid or proposal response date.

G. PROMPT PAYMENT: It is the policy of the City that payment for all purchases by the City shall be made in a timely manner and that interest payments will be made on late payments in accordance with Part VII, Chapter 218, Florida Statutes, known as the Local Government Prompt Payment Act. The Bidder may offer cash discounts for prompt payments; however, such discounts will not be considered in determining the lowest price during bid evaluation.

H. CONTRACTOR'S AFFIDAVIT: When all work contemplated by this Contract has been completed and has been inspected and approved by the City or its authorized agent, the Contractor must furnish the City with a Contractor's Affidavit in a form acceptable to the City. Signed affidavits of payment are required from all subcontractors hired by the Contractor, unless payment is approved by the surety in accordance with Florida Statutes Section 255.05(11). The affidavits

must state whether the subcontractor(s) have been paid in full or whether there are payments remaining. A list of all subcontractors must be furnished to the City prior to any payments against the Contract.

I. SUBCONTRACTORS AND SUPPLIERS: All contracts between the Contractor and any subcontractor that the Contractor hires must conform to the provisions of this Contract and the Contract Documents. The Contractor must incorporate the requirements of this Contract in the subcontracts. The Contractor must furnish the City with a list of all subcontractors and suppliers prior to any payments against the Contract. All subcontractors are subject to the City's approval. No change in subcontractors or suppliers will be made without written consent and approval from the City. All subcontractors must comply with Florida Statutes Section 448.095 for registration and use of the E-Verify system operated by the United States Department of Homeland Security.

2. PREPARATION AND SUBMISSION OF BID FORM

Bid Form: Bids shall be made on forms supplied by the City, or as otherwise specified. Each bid must state the name of the Bidder, the Bidder's full business address and state the type of business entity, followed by the original signature and designation of the officer or other person authorized to bind the corporation. Any erasures or other corrections in the bid form must be explained or noted over the signature of the Bidder. Bid forms containing any conditions, omissions, unexplained erasures, alterations, or irregularities of any kind may be rejected by the City.

Bid Bond: Each bid must be accompanied by a Bidder's bond or Cashier's check with their bid in the amount of NOT LESS THAN 5% of their total amount of the bid. This security shall ensure that the Bidder does not revoke the bid after bid opening or fails to execute any necessary additional documents. Cashier's checks will be returned to all Bidders after award of bid. If using a bid bond use the City of North Port bid bond form.

Bid Documents: Bid documents and forms shall be submitted sealed to the City of North Port, Purchasing, 4970 City Hall Boulevard, Suite 337, North Port, Florida 34286. The envelope/package shall be clearly marked with the Bid Number, Name and Business Address of the Bidder. All interested firms are required to submit one (1) original and one (1) copy of their completed bid offer.

Submission of a response constitutes a binding offer and shall be subject to all terms and conditions specified in the solicitation.

For your bid to be acceptable, **all blank spaces** must be completely annotated where and when requested. All bids must contain a manual signature of the authorized representative of the Bidder in the space provided on the Bid Certification Form.

Responsibility for getting this bid to the City on or before the specified date and time is solely and strictly the responsibility of the Bidder. The City will not be responsible for any delay, for any reason whatsoever. Bids must be received and stamped with the date and time on the outside of the envelope and must be in the City Purchasing Office by the date and time specified for opening.

Bids postmarked prior to said date and time but not received shall not be considered and will be returned to Bidder unopened.

Bid Guarantee: The bid form shall be signed where indicated constituting an agreement that the Bidder will not withdraw his/her bid for a period of ninety (90) days after the opening of the bids.

Source of Supply and Subcontractors: Bidders are to complete the attached Source of Supply and subcontractors form. This form must be completed and included with the bid form. If Bidder does not have a source of supply or subcontractor, insert "to be determined". When source or subcontractor is determined, selection will be subject to City approval.

Bid Opening: All bids received by the date and time so specified shall be opened and **the name of each Bidder and total bid price of each Bidder** read aloud within the designated room at City Hall, at the bid opening. The opening and reading shall be in the presence of the City Clerk and the Purchasing Manager or their designees. Bidders and the general public

are not required to be present but are invited to attend.

Late Bids: Bids received after the date and time of bid opening will not be considered and will not be opened. It will be the Bidder's responsibility to make arrangements for the return of the bid package at their expense.

3. CITY RIGHTS: The City of North Port reserves the right to accept or reject any and/or all bids in whole or in part, to waive irregularities and technicalities, and to request resubmission with or without cause and/or to accept the bid that, in its judgment, will be in the best interest of the City. Also, the City reserves the right to accept all or any part of the bid and to increase or decrease quantities to meet additional or reduced requirement of the City. In the event the City receives only one response: the bid may be either accepted or rejected by the City depending on available competition and the timely needs of the City.

4. AWARD OF BID: The award shall be let to the lowest responsive, responsible Bidder who fulfills all criteria and specifications with consideration to favorable references and local preference and whose evaluation by the City indicates that the award will be in the best interest of the City.

5. ERRORS: For the purpose of the initial evaluation of bids, the following will be utilized in resolving arithmetic discrepancies found on the face of the bidding schedule as submitted by Bidders:
Obviously misplaced decimal points will be corrected.

In case of discrepancy between unit price and extended price, the unit price will govern. Apparent errors in extension will be corrected.

Apparent errors in addition of lump sum and extended prices will be corrected. For the purpose of bid evaluation, the City will proceed on the assumption that the Bidder intends his/her bid be evaluated on the basis of the unit prices, extensions, and totals arrived at by resolution of arithmetic discrepancies as provided above and the bid will be so reflected on the tabulation of bids.

6. BID TABULATIONS: Pursuant to Florida Statute §119.071(1)(b), all bid tabulations shall be posted in the City Hall, 4970 City Hall Boulevard, North Port, Florida and on DemandStar's website at www.demandstar.com within thirty (30) days after bid opening or at such time as the agency provides notice of a decision or intended decision, whichever is earlier.

7. WARRANTY: All warranties express and implied, shall be made available to the City for goods and services covered by this solicitation. All goods furnished shall be fully guaranteed by the vendor against factory and workmanship defects. At no expense to the City, the vendor shall correct any and all apparent and latent defects that may occur within the manufacturer's standard warranty period. The special conditions of the solicitation may supersede the manufacturer's standard warranty.

8. DESCRIPTIVE INFORMATION: Unless otherwise specifically provided in the Technical specifications, all equipment, materials and articles incorporated in the work covered by this Contract are to be new and of the most suitable grade for the purpose intended. Unless otherwise specifically provided in the Technical specifications, reference to any equipment, material, article or patented process, by trade name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. If the Bidder wishes to make a substitution to the specifications, the Bidder shall furnish the City the name of the manufacturer, the model number and other identifying data and information necessary to aid in the City in evaluating the substitution. Such substitution shall be subject to City approval. Substitutions shall be approved only if determined by the City to be equivalent to the specifications. A bid containing substitution is subject to disqualification if the City does not approve the substitution.

9. TAXES/FREIGHT: The bid shall include any freight, handling, delivery, surcharges or other incidental charges. Unless otherwise specified in the solicitation, prices quoted shall be F.O.B. Destination. The City is exempt from the payment of

Federal and State taxes, including sales tax. The bid offer shall not include sales tax to be collected from the City. The City's sales tax exemption is not available to vendor for items vendor purchases, regardless of whether these items will be transferred to the City.

In the event the project is declared a sales tax recovery project by the City, the following procedure shall apply:

- (a) The City representative shall make a recommendation to the Division of Procurement Services regarding the materials to be purchased:
- (b) When those materials are purchased by the City, all purchase orders shall be issued directly from Purchasing:
- (c) The City shall take title to those materials directly from the manufacturer/supplier and shall bear the risk of loss or damage to the materials which are delivered directly from the manufacturer/supplier:
- (d) The City shall be invoiced directly for the materials from the manufacturer/supplier and shall pay the invoices directly to the manufacturer/supplier, presenting its sales tax exemption certificate at the time of payment.

The cost of any materials purchased through the sales tax recovery program shall be deducted from the Contract amount and the vendor shall no longer be responsible for providing those materials. A written change order shall be executed.

10. CONTINUATION OF WORK: Any work that commences prior to and will extend beyond the expiration date of the current Contract period shall, unless terminated by mutual written agreement between the City and the vendor, continue until completion without change to the then current prices, terms and conditions.

11. TERMINATION OF CONTRACT:

Termination With or Without Cause. The City Manager or designee may terminate the work under this Contract with or without cause, in whole or in part, whenever the City Manager or designee determines that termination is in the City's best interest.

- (1) Any termination must be effective by delivery to the Contractor of a written notice of termination at least thirty (30) calendar days before the date of termination, specifying the extent to which performance of the work is terminated and the date upon which the termination becomes effective.
- (2) Except as otherwise directed, the Contractor must cease all work on the date of receipt of the notice of termination or other date specified in the notice; place no further orders or subcontracts for materials, services, or facilities except as necessary for completion of the portion of the work not terminated; terminate all vendors and subcontracts; and settle all outstanding liabilities and claims.
- (3) The Contractor must deliver to the City all documents (including but not limited to reports, designs, specifications, and all other data) prepared or obtained by the Contractor in connection with its services.
- (4) The City must pay the Contractor in full settlement of all claims by it hereunder as the work actually completed bears to the entire work under this Contract, as determined by the City, less payments already made to the Contractor, and any amounts withheld by the City to settle claims or to pay indebtedness of the Contractor in accordance with the provisions of this Contract. The City has no obligation under any circumstance to make any payment to the Contractor for services that have not been performed or that are performed after the termination date.

B. Termination For Convenience: The City reserves the right, in its best interest as determined by the City, to cancel this Contract for convenience by giving written notice to the Contractor at least thirty (30) days prior to the effective date of such cancellation. In the event this Contract is terminated for convenience, Contractor shall be paid for any services performed to the City's satisfaction pursuant to the Contract through the termination date

specified in the written notice of termination. The Contractor acknowledges and agrees that Contractor has received good, valuable, and sufficient consideration from City, the receipt and adequacy of which are hereby acknowledged by the Contractor, for City's right to terminate this Contract for convenience. The Contractor will not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

- C. Termination for Non-Appropriation. The parties acknowledge and agree that the financial obligations of the City in this Contract, or any subsequent contract entered into or referenced when the City is a party, are subject to the provisions of Florida Statutes Section 166.241, as amended, regardless of whether a particular obligation has been expressly so conditioned. Since funds are appropriated annually by the City Commission on a fiscal year basis, the City's legal liability for the payment of any costs must not arise unless and until appropriations for the costs are approved for the applicable fiscal year by the City Commission; nor will liability arise if a request for the appropriations is excluded from the budget approved by the City Commission. Notwithstanding the foregoing, no Commissioner, officer, employee, director, member or other natural person or agent of the City will have any personal liability in connection with a breach of the provisions of this Section or in the event of a default by the City under this Section. This Contract does not constitute an indebtedness of the City nor an obligation of the City to levy or pledge any form of taxation nor an obligation for which the City has levied or pledged any form of taxation.
- D. Termination for Abandonment. If the Contractor abandons performance under this Contract, the City Manager or designee may terminate this Contract upon three (3) calendar days' written notice to the Contractor indicating the intention to do so. The written notice must state the evidence indicating the Contractor's abandonment.
- E. Contractor's Termination. The Contractor may terminate this Contract only in the event of the City failing to pay the Contractor's properly documented and submitted payment request within ninety (90) calendar days of the approval by the City's Administrative Agent, or if the project is suspended by the City for a period greater than ninety (90) calendar days.
- F. Court Proceedings. The City Manager or designee reserves the right to terminate this Contract in the event the Contractor is placed in either voluntary or involuntary bankruptcy, a receiver is appointed for the Contractor, or an assignment is made for the benefit of creditors.
- G. Breach. In the event the Contractor is in breach of this Contract, the City must provide written notice of the breach and the Contractor will have ten (10) calendar days to cure, calculated from the date the Contractor receives the notice. If the Contractor fails to cure within the ten (10) calendar days, the City Manager or designee may immediately terminate the Contract and/or refuse to make any additional payment, in whole or in part, and may demand the return of a portion or the entire amount previously paid to the Contractor due to:
 - (1) The quality of a portion or all the Contractor's work not being in accordance with the requirements of this Contract;
 - (2) The quantity of the Contractor's work not being as represented in the Contractor's payment request, or otherwise;
 - (3) The Contractor's rate of progress is, in the City's opinion, whether substantial or final completion, or both, inexcusably delayed;
 - (4) The Contractor's failure to pay the Contractor's project related obligations including, but not limited to,

subcontractors, laborers, materialmen, equipment, and other suppliers;

(5) Claims made, or likely to be made, against the City or its property;

(6) Loss caused by the Contractor;

(7) The Contractor's failure or refusal to perform any of the obligations to the City, after written notice and a reasonable opportunity to cure, as set forth above; or

(8) Violation of any local, state, or federal law in the performance of this Contract constitutes a breach of this Contract.

H. Waiver. Any delay or failure to enforce any breach of this Contract by either the City or the Contractor will not be binding upon the waiving party unless the waiver is in writing. In the event of a written waiver, the waiver will not affect the waiving party's rights with respect to any other or further breach. The making or acceptance of a payment by either party with knowledge of the existence of a default or breach must not operate or be construed to operate as a waiver of any subsequent default or breach.

I. Payment Adjustments. If the City makes written demand upon the Contractor for amounts previously paid by the City, the Contractor must promptly comply with the demand. The City's rights hereunder survive the term of this Contract and are not waived by final payment and/or acceptance.

J. E-Verify Violation.

(1) If the City has a good faith belief that the Contractor has knowingly violated Florida Statutes Section 448.09(1), then this Contract may be terminated by the City.

(2) If the City has a good faith belief that a subcontractor has knowingly violated Florida Statutes Section 448.09(1), but the Contractor has otherwise complied, then the City must promptly notify the Contractor and order the Contractor to immediately terminate this Contract with the subcontractor.

(3) The Contractor must comply with Florida Statutes Section 448.095(2) for any challenge to termination of this Contract under this Section.

K. Remedies. In the event of a default or breach of the Contract terms, the City may avail itself of every remedy specifically given to it now existing at law or in equity, and every remedy must be in addition to every other remedy so specifically given or otherwise so existing and may be exercised from time to time and as often and in the order as may be deemed expedient by the City. The exercise, or the beginning of the exercise, of one remedy must not be deemed to be a waiver of the right to exercise, at the same time or thereafter, any other remedy. The City's rights and remedies as set forth in this Contract are not exclusive and are in addition to any other rights and remedies available to it in law or in equity.

12. PROPRIETARY OR CONFIDENTIAL INFORMATION: Bidders are hereby notified that all information submitted as part of, or in support of bid submittals will be available for public inspection after opening of bids in compliance with Chapter 119 of the Florida Statutes, the Public Record Act. The Bidder should not submit any information in response to this solicitation which the Bidder considers proprietary or confidential. The submission of any information to the City in connection with this solicitation shall be deemed conclusively to be a waiver of any protection from release of the submitted information unless such information is exempt from disclosure under the Public Records Act, and such information is marked as exempt. Failure to mark a trade secret as exempt waives the exemption.

13. LAWS AND REGULATIONS: Violation of any local, state, or federal law in the performance of this Contract constitutes a breach of this Contract. The Contractor must comply with all laws, ordinances, rules, regulations, and orders of all public authorities relating to the performance of the work required. If any of the Contract documents are at variance with any law or regulation, the Contractor must notify the City promptly upon discovery.

When applicable and as required by law, the bidder will provide a material safety data sheet with each delivery of a toxic substance.

The Contractor shall maintain books, records, documents, and other evidence directly pertaining to or connected with the services under this Contract which shall be available and accessible at the vendor's offices for the purpose of inspection, audit, and copying during normal business hours by the CITY, or any of its authorized representatives. Such records shall be retained for a minimum of five (5) years after completion of the services.

14. CODE OF ETHICS: With respect to this bid, if any Bidder violates or is a party to a violation of the Florida Statutes, Chapter 112, Part III, Code of Ethics for Public Officers and Employees, such Bidder may be disqualified from furnishing the goods or services for which the bid is submitted and shall be further disqualified from submitting any future bids for goods or services for the City.

15. COLLUSION: By offering a submission to this RFB, the Bidder certifies that the Bidder has not divulged to, discussed or compared his/her bid with other Bidders and has not colluded with any other Bidder or parties to this bid whatsoever. Also, Bidder certifies, and in the case of a joint bid each party thereto certifies as to his/her own organization, that in connection with this bid: any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices and or cost data, with any other Bidder or with any competitor: any prices and/or data quoted for this bid have not been knowingly disclosed by the Bidder and will not knowingly be closed by the Bidder prior to the scheduled opening directly or indirectly to any other Bidder or to any competitor: no attempt has been made or will be made by the Bidder to induce any other person or firm to person or persons interested in this bid, principal or principals is/are named therein and that no person other than therein mentioned has any interest in this bid or in the Contract to be entered into: and no person or agency has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee excepting bona fide employees of the Bidder.

16. PUBLIC ENTITY CRIMES: In accordance with Florida Statutes Sec. 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/services to public entity, may not submit a bid on a Contract with a public entity for construction or repair of 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 in Sections 287.017, for Category Two, for a period of 36 months from the date of being placed on the convicted vendor list." By submitting a bid, vendor certifies that vendor is not currently prohibited from transacting business with the City due to the above statute. The vendor shall comply with the terms of this statute both before and during the term of this Contract.

17. DRUG FREE WORKPLACE PREFERENCE: The City has adopted a policy in observation of the Drug Free Workplace Act of 1988. Therefore, it is unlawful to manufacture, distribute, dispense, possess, or use any controlled substance in the City workplace.

The City requests that the attached Drug Free Workplace Affidavit accompany the bid response. This form has been adopted by the City in accordance with the Drug Free Workplace Act. The City will not disqualify any Bidder who does not sign the affidavit. The Drug Free Workplace Affidavit is primarily used as a tie breaker when two or more separate entities have submitted bids at the same price, terms and conditions, with preference given to the Bidder who has signed

the affidavit.

18. EQUAL EMPLOYMENT OPPORTUNITY: The City of North Port, Florida, in accordance with the provisions of Title VII of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Department of Commerce (15 CFR, Part 8) issued pursuant to such Act, hereby notifies all Bidders that it will ensure that in any Contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit replies in response to this advertisement and will not be discriminated against on the ground of race, color or national origin in consideration for an award.

19. NON-DISCRIMINATION: The City of North Port does not discriminate on the basis of race, color, national origin, sex, age, disability, family or religious status in administration of its programs, activities or services. Pursuant to F.S §287.134(2)(a), an entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a Contract to provide any goods or services to a public entity: may not submit a bid, proposal, or reply on a Contract with a public entity for the construction or repair of a public building or public work: may not submit bids, proposals, or replies 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.

20. PUBLIC RECORDS AND DECLARATION OF EXEMPTION FROM PUBLIC RECORD: Pursuant to Florida Statute §119.07(1)(b)(2), all bid documents are exempt from public record until such time as the City provides notice of an intended decision or until 30 days after opening the bids, whichever is earlier.

In accordance with Florida Statutes 119.0701, Contractor shall comply with all public records laws, and shall specifically:

20.1. Keep and maintain public records required by the City to perform the service.

a. The timeframes and classifications for records retention requirements must be in accordance with the General Records Schedule GS1-SL for State and Local Government Agencies.
(See <http://dos.state.fl.us/library-archives/records-management/general-records-schedules/>).

b. “Public records” means and includes those items specified in Florida Statutes 119.011(12), as amended from time to time, and currently defined as: All documents, papers, letters, maps, books, tapes, photographs, films, sound recordings, data processing software, or other material, regardless of the physical form, characteristics, or means of transmission, made or received pursuant to law or ordinance or in connection with the transaction of official business with the City. Contractor’s records under this Contract include but are not limited to, supplier/subcontractor invoices and Contracts, project documents, meeting notes, e-mails and all other documentation generated during this Contract.

20.2. Upon request from the City’s custodian of public records, provide the City, at no cost, with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided for by law. All records kept electronically must be provided to the City, upon request from the City’s custodian of public records, in a format that is compatible with the information technology systems of the City.

20.3. Ensure that project records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract term and, if the Contractor does not transfer the records to City following completion of the Contract, for the time period specified in General Records Schedule GS1-SL for State and Local Government Agencies.

20.4. Upon completion of the Contract, transfer, at no cost, to the City all public records in Contractor's possession or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of the Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon the completion of the Contract, the Contractor shall meet all applicable requirements for retaining public records.

20.5. IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CUSTODIAN OF PUBLIC RECORDS, 4970 CITY HALL BOULEVARD, NORTH PORT, FLORIDA 34286, 941.429.7063 OR HOTLINE 941.429.7270: E-MAIL: PUBLICRECORDSREQUEST@NORTHPORTFL.GOV

20.6. Failure of the Contractor to comply with these requirements shall be a material breach of this Contract. Further, Contractor may be subject to penalties under Florida Statutes 119.10.

21. FORCE MAJEURE: Should performance of any obligation created under this Agreement become illegal or impossible by reason of:

- a. A strike or work stoppage, unless caused by a negligent act or omission of either Party;
 - b. An act of God, tornado, hurricane, flood, sinkhole, fire, explosion, landslide, earthquake, epidemic, pandemic, quarantine, pestilence, or extremely abnormal and excessively inclement weather;
 - c. An act of a public enemy, act of war, terrorism, effect of nuclear radiation, blockage, insurrection, riot, civil disturbance, state of martial law, or national or international calamity;
 - d. A declared emergency of the federal, state, or local government; or
 - e. Any other like event that is beyond the reasonable control of the non-performing party;
- then the performance of any such obligation is suspended during the period of, and only to the extent of, such prevention or hindrance, provided that:
- f. The non-performing party provides written notice within five (5) days of the event of *force majeure*, describing the event in sufficient detail, including but not limited to: the nature of the occurrence, a good faith estimate of the duration of the delay, proof of how the event has precluded the non-performing party from performing, and the means and methods for correcting the delay; and continues to furnish timely reports of all actions required for it to commence or resume performance of its obligations under this Agreement;
 - g. The excuse of performance is no greater in scope or duration than required by the event of *force majeure*;
 - h. No obligations of either party that arose before the *force majeure* are excused as a result of the event of *force majeure*; and
 - i. The non-performing party uses all reasonable diligence to remedy its inability to perform.

Economic hardship of a party does not constitute an event of *force majeure*. A party will not be excused from performance due to forces that it could have reasonably prevented, removed, or remediated prior to, during, or immediately after their occurrence.

The non-performing party's affected obligations under this Agreement will be temporarily suspended during, but not longer than, the continuance of the event of *force majeure* and a reasonable time thereafter as may be required to commence or resume performance of its obligations. Notwithstanding the above, performance shall not be excused under this Section for a period exceeding two (2) months, provided that in extenuating circumstances, the City may excuse performance for a longer term.

The term of this Contract will be extended by a period equal to that during which the non-performing party's performance is suspended under this Section.

22. GOVERNING LAWS: The interpretation, effect, and validity of any Contract resulting from this RFB shall be

governed by the laws and regulations of the State of Florida. Exclusive venue of any court action shall be in Sarasota County, Florida.

23. SUBCONTRACTING: Unless otherwise specified in this solicitation, the vendor shall not subcontract any portion of the work without the prior written consent of the City. The ability to subcontract may be further limited by the Special Conditions. Subcontracting without the prior consent of the City may result in termination of the Contract for default.

24. MODIFICATION OF CONTRACT: Any Contract resulting from this solicitation may be modified by mutual consent of duly authorized parties, in writing through the issuance of a modification to the Contract and/or change order as appropriate. This presumes the modification itself is in compliance with all applicable City procedures.

25. SUCCESSORS AND ASSIGNS: The vendor shall not assign any interest in any Contract resulting from this solicitation and shall not transfer any interest in same (whether by assignment or novation) without prior written consent of the City, except that claims for the money due or to become due to the vendor from the City under any Contract may be assigned to a financial institution or to a trustee in bankruptcy without such approval from the City. Notice of such transfer or assignment due to bankruptcy shall be promptly given to the City.

26. CONTRACTING WITH CITY EMPLOYEES OR BOARD MEMBERS: Any City employee, Board member or member of his or her immediate family seeking to Contract with the City shall seek a conflict of interest opinion from the purchasing manager or their designated representative prior to submittal of a response or application of any type to Contract with the City. The affected employee or Board member shall disclose his or her assigned function within the City and interest or the interest of his or her immediate family in the proposed Contract and the nature of the intended Contract.

Florida Statute §112.313(12) Standards of Conduct for Public Officers, Employees of Agencies, and Local Government Attorneys controls Contracting with City employees or board members, and provides as follows:

(12) EXEMPTION. --The requirements of subsections (3) and (7) as they pertain to persons serving on advisory boards may be waived in a particular instance by the body which appointed the person to the advisory board, upon a full disclosure of the transaction or relationship to the appointing body prior to the waiver and an affirmative vote in favor of waiver by two-thirds vote of that body. In instances in which appointment to the advisory board is made by an individual, waiver may be effected, after public hearing, by a determination by the appointing person and full disclosure of the transaction or relationship by the appointee to the appointing person. In addition, no person shall be held in violation of subsection (3) or subsection (7) if:

(b) The business is awarded under a system of sealed, competitive bidding to the lowest or best Bidder and:

1. The official or the official's spouse or child has in no way participated in the determination of the bid specifications or the determination of the lowest or best Bidder:

2. The official or the official's spouse or child has in no way used or attempted to use the official's influence to persuade the agency or any personnel thereof to enter such a Contract other than by the mere submission of the bid: and

3. The official, prior to or at the time of the submission of the bid, has filed a statement with the Commission on Ethics, if the official is a state officer or employee, or with the supervisor of elections of the county in which the agency has its principal office, if the official is an officer or employee of a political subdivision, disclosing the official's interest, or the interest of the official's spouse or child, and the nature of the intended business.

27. GRANT FUNDING: In the event any part of the Contract is to be funded by federal, state, or other local agency monies, the vendor hereby agrees to comply with all requirements of the funding entity applicable to the use of the monies, including full application of requirements involving the use of minority firms, women's business enterprises, and labor surplus area firms. Vendors are advised that payments under the Contract may be withheld pending

completion and submission of all required forms and documents required of the vendor pursuant to the grant funding requirements. A copy of the requirements shall be supplied to the vendor by the City upon request.

28. PERFORMANCE/PAYMENT BOND:

- A. **PERFORMANCE/PAYMENT BOND REQUIREMENTS:** The Contractor must provide a performance and payment bond in the form prescribed in Florida Statutes Section 255.05, in the amount of one hundred percent (100%) of the Contract Price, the costs of which are to be paid by the Contractor. The bond will be acceptable to the City only if the surety company:
1. Is licensed to do business in the State of Florida;
 2. Holds a certificate of authority authorizing it to write surety bonds in the State of Florida;
 3. Has twice the minimum surplus and capital required by the Florida Insurance Code at the time the invitation to bid is issued;
 4. Is otherwise in compliance with the provisions of the Florida Insurance Code;
 5. Holds a currently valid certificate of authority issued by the United States Department of Treasury under 31 U.S.C. §§ 9304-9308;
 6. Has a current rating of at least Excellent (A or A-) as reported in the most current Best Key Rating Guide, published by A.M. Best Company, Inc., of 75 Fulton Street, New York, New York 10038; and
 7. Has an underwriting limitation of at least two times the dollar amount of the Contract Price.
- B. Substitute Bond Required. If the surety company for any bond furnished by the Contractor files for bankruptcy, has a receiver appointed, is declared bankrupt, becomes insolvent, has an assignment made for the benefit of creditors, has its right to do business terminated in the State of Florida, or ceases to meet the requirements imposed by this Contract, the Contractor must, within five (5) calendar days thereafter, substitute another bond and surety company, both of which are subject to the City's approval.
- C. Surety Acceptance of Terms. The Contractor warrants that the Contractor delivered this Contract to the surety prior to execution of the bond, and that the surety company acknowledged that it has read the surety qualifications and surety obligations imposed by this Contract and satisfies all conditions.
- D. Delivery of the Bond. The Contractor must provide the required performance and payment bond to the City within ten (10) calendar days of the Effective Date. The Contractor's failure to provide the bond timely constitutes a default. Pursuant to Section 2-404 of the Code of City of North Port, Florida, upon default, the City may immediately award the bid to the next lowest responsive and responsible bidder and recover from the Contractor the difference in cost between the original winning bid and the next lowest responsive and responsible bidder. The default is only curable at the option of the City.
- E. Recording the Bond. The Contractor is responsible and bears all costs associated with recording the required bond or security with the Sarasota County Clerk of the Circuit Court. The Contractor must furnish the receipt for and certified copy of the recorded bond to the Purchasing Division at the time of the pre-construction meeting. The default is only curable at the option of the City.

29. STATE REGISTRATION REQUIREMENTS: Any Bidder required by Florida law to register to do business in this state shall either be registered or have applied for registration with the Florida Department of State in accordance with the provisions of Chapter 607, 608, 617, or 621, Florida Statutes, unless they are exempt. A copy of the

registration/application may be required prior to award of a Contract. Any partnership submitting a bid in response to this RFB shall have complied with the applicable provisions of Chapter 620, Florida Statutes.

30. NOTICE TO PROCEED/DELIVERY: After award of bid, a Notice to Proceed shall be issued bearing the terms of delivery. Upon receipt of Notice to Proceed, successful Bidder shall acknowledge receipt of same by either fax or mail and shall commence prosecution of the order so that the agreed upon delivery date will be satisfied.

31. PERFORMANCE EVALUATION: At the end of the Contract, the receiving department may evaluate the successful Bidder's performance. This evaluation will become public record.

32. PURCHASING AGREEMENTS WITH OTHER GOVERNMENTAL AGENCIES: All Bidders submitting a response to this RFB agree that such response also constitutes a bid in accordance with the terms of the RFB to all political subdivisions of Sarasota County and the State of Florida, under the same conditions, for the same prices as this bid, unless otherwise stipulated by the Bidder.

33. NONEXCLUSIVE CONTRACT: Award of this Contract shall not require the City to use the Vendor for all work of this type, which may develop during the Contract term. This Contract is non-exclusive. The City reserves the right to concurrently Contract with other entities for similar work if it deems such action to be in the best interests of the City.

34. AUDIT: City shall have the right to audit Vendor's records that relate to this Contract. Records shall be maintained for a period of three (3) years from the date of final payment.

35. UNAUTHORIZED ALIEN WORKERS: The City will not intentionally award publicly-funded Contracts to any Contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in U.S.C. Section 1324a(e) [Section 274A(e) of the Immigration and Nationality Act ("INA")]. The City shall consider employment by any Contractor of unauthorized aliens a violation of Section 274A(e) of the INA. Such violation by the Contractor of the employment provisions contained in Section 274A(e) of the INA shall be grounds for termination of this Agreement by the City.

36. EMPLOYEE BACKGROUND CHECK: If an owner, except a stockholder in a publicly traded corporation, or an employee of the Contractor has been convicted of any offenses requiring registration as a sexual offender or sexual predator, regardless of the location of conviction, the Contractor shall ensure that the offender's or predator's work on the project is consistent with the terms of their probation and registry requirements.

37. PAYMENT: Payment Requests. The Contractor must use a City approved form for all payment requests, along with an updated work schedule reflecting the progress of all work. Payment requests must be accompanied by either written approval and direction of the surety, or receipt of updated affidavits of payment by subcontractors and/or suppliers, in accordance with Florida Statutes Section 255.05(11). The Contractor's payment request must include any changes approved in previous payment requests.

B. Payment. The Contract Price is net, and all payment requests are payable according to the Florida Local Government Prompt Payment Act (Florida Statutes Section 218.70, *et seq.*). The City or its authorized agent will make payment to the Contractor for all services or work completed or materials furnished in accordance with this Contract only upon certification and approval of the payment request.

C. Timing of Payments; Retainage. The City will not make payments to the Contractor more frequently than monthly. Payment must be based on the total value of the work completed and accepted during the preceding month, less five percent (5%) retainage. The City must inform the Contractor's surety of any reduction in retainage. Retainage may be

reduced upon issuance of the Certificate of substantial completion by the City if, in the sole opinion of the City, sufficient progress on the schedule has been accomplished, all required affidavits have been provided, and the City has retained adequate coverage for the project through the achievement of Final Completion.

D. Final Payment. The Contractor must complete the items on the punch list to the satisfaction of the City within the Contract Time and prior to submittal of the application for reduction of retainage or final payment. The Contractor's submittal for final payment must include the Contractor affidavit, final waiver and release of lien for all subcontractors, materialmen and suppliers, warranty of work, and consent of surety in the forms acceptable to the City. The City's or its authorized agent's approval is required before making final payment for all work, materials, or services furnished under this Contract.

38. DISPUTE RESOLUTION -All claims, disputes and other matters in question between the parties to this agreement, arising out of or relating to this Contract or the breach thereof, shall be resolved as follows:

- A. To the extent Chapter 558, F.S., is applicable, the parties expressly opt out of the requirements of Chapter 558, F.S., within the mean of section 558.005(1), F.S.
- B. In the event of a dispute or claim arising out of this Contract, the parties agree first to try in good faith to settle the dispute by direct discussion. If this is unsuccessful, the parties may enter into mediation in Sarasota County, Florida, with the parties sharing equally in the cost of such mediation.
- C. In the event mediation, if attempted, is unsuccessful in resolving a dispute, the parties may proceed to litigation as set for the below.
- D. Any dispute, action or proceeding arising out of or related to this Contract will be exclusively commenced in the state courts of Sarasota County, Florida, or where subject matter jurisdiction exists in the United States District Court for the Middle District of Florida. Each party irrevocably submits and waives any objections to the exclusive personal jurisdiction and venue of such courts, including any objection based on forum non convenience.
- E. The parties agree to waive all rights to trial by jury for any litigation undertaken concerning this Contract.
- F. This Agreement and the rights and obligations of the parties shall be governed by the laws of the State of Florida without regard to its conflict of laws principles.
- G. Unless otherwise agreed in writing, the Contractor shall be required to continue its services and all other obligations under this Contract during the pendency of claim or dispute including, but not limited to, actual period of mediation or judicial proceedings.

39. SWORN STATEMENT, COMPLIANCE WITH FLORIDA TRENCH ACT: Bidder shall be solely responsible for complying with the Florida Trench Safety Act (553.60-553.64 Florida Statutes) and Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 (subpart P) as amended. All costs associated with complying with these requirements shall be included in the separate line items of the bid and shall be as detailed in the Sworn Statement of Compliance with the Florida Trench Safety Act. Bidder shall submit the Statement of Compliance with the Florida Trench Safety Act form provided herein with his bid or with each work assignment.

40. INSURANCE REQUIREMENTS: The successful Bidder shall be required to supply, at their cost, insurance coverage in form and amount as required by the City, as outlined in the bid specifications.

41. CONTACT PROHIBITION: All prospective Bidders are hereby instructed **NOT** to contact any member of the City of North Port Commission, the City Manager, or City of North Port staff member other than the Authorized Contact Persons identified in this Solicitation regarding this solicitation package, Bidder's submittal package, City's Intent to Award, or City's Intent to Reject (if applicable) at any time prior to the FORMAL AWARD for this project. Any such contact shall be cause for rejection of your submittal.

42. SCRUTINIZED COMPANIES:

A. As required by section 287.135(5), Florida Statutes, for Contracts of \$1,000,000.00 or less, when submitting a bid or proposal, and prior to entering into a Contract with the City, every person or entity shall certify on a form provided by the City, that it is not on the Scrutinized Companies that Boycott Israel List, created pursuant to section 215.4725, Florida Statutes, and that it is not engaged in a boycott of Israel.

B. As required by section 287.135(5), Florida Statutes, for Contracts of \$1,000,000.00 or more, when submitting a bid or proposal, and prior to entering into a Contract with the City, every person or entity shall certify on a form provided by the City, that all of the following are true:

1. It is not on the Scrutinized Companies that Boycott Israel List, created pursuant to section 215.4725, Florida Statutes, and that it is not engaged in a boycott of Israel: and
2. It is not on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in Iran Petroleum Energy Sector list, created pursuant to section 215.473, Florida Statutes: and
3. It is not engaged in business operations in Cuba or Syria.

C. **PENALTY:**

1. If a false certification is submitted or the person or entity has been placed on one of the above-noted Lists of Scrutinized Companies or has engaged in business operations in Cuba or Syria, the person or entity will be in breach of the Contract terms and the City may terminate the Contract.
2. A person or entity that has been found to have provided a false certification may be subject to a civil penalty equal to the greater of \$2 million or twice the amount of the Contract, plus all reasonable attorney's fees and costs, including any costs for investigations that led to the finding of the false certification: and
3. A person or entity that has been found to have provided a false certification shall be ineligible to bid on any Contract with the City for three (3) years after the date the City determined that a false certification has been submitted.

43. CONFLICTS OF INTEREST – CITY OFFICERS, EMPLOYEES OR BOARD MEMBERS: The Florida Code of Ethics regulates the ability of the City to Contract with its public officers (including board members), employees, and their immediate relatives. Respondents shall disclose any such potential conflicts on the provided Conflict of Interest Form. Respondents are responsible for reviewing Florida Statute §112.313 to determine whether they may have a conflict. If Respondent is in doubt as to their ability to Contract with the City, they shall seek a conflict of interest opinion from the City Manager or his/her designated representative prior to submittal of a response.

44. RELEASE OF LIENS: The Contractor is required to pay all money due subcontractors and material dealers promptly. The Contractor shall submit releases of liens, satisfactory to the City, certifying that all payrolls, material bills, and other indebtedness incurred by the Contractor in connection with this project have been paid in full.

45. DIRECT PURCHASE: The City reserves the right, at the City's sole option, to utilize the Purchasing Department's direct purchase order system. Direct purchase orders may be issued for applicable supplies and equipment to utilize in this project in order to recover applicable sales tax on these purchase orders.

46. E- VERIFY: The City, contractor and every subcontractor shall register with and use the E-Verify system of the United States Department of Homeland Security to verify the work authorization status of all new employees as required by Section 448.095, Florida Statutes. A contractor who enters into a contract with a subcontractor, must require that the subcontractor provides the contractor a certification by affidavit stating that at the time of such certification and during the term of the contract, the subcontractor does not and will not employ, contract, or subcontract with an unauthorized alien, who is not authorized under federal law to be employed in the United States, as described in 8 U.S.C. S. 1324A(H)(3). The Contractor shall comply with all other federal laws pertaining to the subcontractor.

47. BUY AMERICA: The City is committed to the procurement of products and services that are produced or manufactured in America. The city encourages all contractors and vendors to buy American made materials and products.

48.PROHIBITION AGAINST CONSIDERING SOCIAL, POLITICAL OR IDEOLOGICAL INTERESTS IN GOVERNMENT CONTRACTING F.S. 287.05701: Bidders are hereby notified of the provisions of section 287.05701, Florida Statutes, as amended, that the City will not request documentation of or consider a Bidder's social, political, or ideological interests when determining if the Bidder is a responsible Bidder. Bidders are further notified that the City's governing body may not give preference to a Bidder based on the Bidder's social, political, or ideological interests.

49. LICENSES AND PERMITS: The Contractor must pay all taxes required by law in connection with the activities done in furtherance of this Contract including sales, use, and similar taxes, and unless otherwise mutually agreed to in writing, must secure all licenses and permits necessary for proper completion of the work, and pay any related fees.

50. PRICING/AUDIT: The Contractor shall establish and maintain a reasonable accounting system, which enables ready identification of Contractor's cost of goods and use of funds.

Such accounting system shall also include adequate records and documents to justify all prices for all items invoiced as well as all charges, expenses and costs incurred in providing the goods for at least five (5) years after completion of this contract. The City or its designee shall have access to such books, records, subcontract(s), financial operations, and documents of the Contractor or its subcontractors, as required to comply with this section for the purpose of inspection or audit anytime during normal business hours at the Contractor's place of business. This right to audit shall include the Contractor's subcontractors used to procure goods under the contract with the City. Contractor shall ensure the City has these same rights with subcontractors and suppliers.

51. DEBARMENT AND SUSPENSION STATUS: The Bidder is not currently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any government agency, nor is the Bidder an agent of any person or entity that is currently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from the covered transaction by any government agency.

The Bidder has not within three (3) years preceding this solicitation been convicted of or had a civil suit judgment rendered against the Bidder for the commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making a false statement, or receiving stolen property.

The Bidder is not presently indicted for or otherwise criminally or civilly charged by a government entity (federal, state, or local) with the commission of any of the offenses enumerated above.

The Bidder has not, within three (3) years preceding this Solicitation, had any government (federal, state, or local) transactions terminated for cause or default.

52. FLORIDA CONVICTED/SUSPENDED/DISCRIMINATORY COMPLAINTS: By submission of an offer, the respondent affirms that it is not currently listed in the Florida Department of Management Services Convicted/Suspended/Discriminatory Complaint Vendor List.

53. FOREIGN ENTITY OF CONCERN COMPLIANCE WITH FLORIDA STATUTE 287.138

(1) As used in this section, the term:

a) "Controlling interest" means possession of the power to direct or cause the direction of the management or policies of a company, whether through ownership of securities, by contract, or otherwise. A person or entity that directly or indirectly has the right to vote 25 percent or more of the voting interests of the company or is entitled to 25 percent or more of its profits is presumed to possess a controlling interest.

b) "Department" means the Department of Management Services.

c) "Foreign country of concern" means the People's Republic of China, the Russian Federation, the Islamic Republic of Iran, the Democratic People's Republic of Korea, the Republic of Cuba, the Venezuelan regime of Nicolás Maduro, or the Syrian Arab Republic, including any agency of or any other entity of significant control of such foreign country of concern.

d) "Governmental entity" means any state, county, district, authority, or municipal officer, department, division, board, bureau, commission, or other separate unit of government created or established by law including, but not limited to, the Commission on Ethics, the Public Service Commission, the Office of Public Counsel, and any other public or private agency, person, partnership, corporation, or business entity acting on behalf of any public agency.

(2) A governmental entity may not knowingly enter into a contract with an entity which would give access to an individual's personal identifying information if:

(a) The entity is owned by the government of a foreign country of concern;

(b) The government of a foreign country of concern has a controlling interest in the entity; or

(c) The entity is organized under the laws of or has its principal place of business in a foreign country of concern.

(3) Beginning July 1, 2025, a governmental entity may not extend or renew a contract with an entity listed in paragraphs (2)(a)-(c) if the contract would give such entity access to an individual's personal identifying information.

(4)(a) Beginning January 1, 2024, a governmental entity may not accept a bid on, a proposal for, or a reply to, or enter into, a contract with an entity which would grant the entity access to an individual's personal identifying information unless the entity provides the governmental entity with an affidavit signed by an officer or representative of the entity under penalty of perjury attesting that the entity does not meet any of the criteria in paragraphs (2)(a)-(c).

(b) Beginning July 1, 2025, when an entity extends or renews a contract with a governmental entity which would grant

the entity access to an individual's personal identifying information, the entity must provide the governmental entity with an affidavit signed by an officer or representative of the entity under penalty of perjury attesting that the entity does not meet any of the criteria in paragraphs (2)(a)- (c).

54. HUMAN TRAFFICKING - Florida Statutes Section 787.06(13)

(13) When a contract is executed, renewed, or extended between a nongovernmental entity and a governmental entity, the nongovernmental entity must provide the governmental entity with an affidavit signed by an officer or a representative of the nongovernmental entity under penalty of perjury attesting that the nongovernmental entity does not use coercion for labor or services as defined in this section. For purposes of this subsection, the term "governmental entity" has the same meaning as in s. 287.138(1).

END OF SECTION I

SECTION II. GENERAL PROVISIONS

1. SCOPE OF WORK

1.1 *Intent of Contract:* Bid forms shall set forth firm bid unit prices for furnishing all necessary materials and completing all work, including but not limited to labor, transportation, supervision, electricity, water, equipment, startup, testing, training and all other work needed for a complete and operational gravity main collection system including CIPP lining and lateral chemical grouting for I&I abatement efforts, as described in the Technical Specifications and/or shown on the Contract Drawings (If applicable) attached herewith. The City reserves the right to establish the exact limits of work in the field and to add or delete from the Project, as it deems necessary.

The intent of the Technical Specifications and Contract Drawings, as applicable, is to describe a complete project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between the City and the Contractor. They may be altered only by addendum or change order approved by the City.

1.2 *Definitions:*

1.2.1 The Department as used within the Contract Documents refers to the City.

1.2.2 The successful Bidder for this Contract will be referred to as the **CONTRACTOR**: Department Director or his/her representative, acting personally or through an assistant duly authorized for such act by the City will be referred to as City. For the purposes of this Contract, the word "Project" shall mean the services limits of **CONTRACTOR**.

1.2.3 The Contract documents consist of the Request for Bids, Instructions to Bidders, Bid Forms, Technical Specifications, Construction Drawings, General Provisions, Special Provisions, Insurance Requirements, and all other related documents, including all modifications thereof incorporated in the documents before their execution. These form the Contract.

1.2.4 Written notice shall be deemed to have been duly served three days after date of postmark, and upon receipt, if delivered to the individual or member of the firm or an officer of the corporation for whom it is intended.

1.2.5 Subcontractor(s), as employed herein, includes only those having a direct Contract with the Contractor and it includes one who furnishes material worked to a special design according to the plans and specifications of this work, but does not include one who merely furnishes material not so worked.

1.2.6 The term "work" of the Contractor includes labor or materials or both, equipment, transportation, or other facilities necessary to complete the Contract.

1.2.7 All time limits stated in the Contract documents are of essence to the Contract.

1.2.8 The words "furnish," furnish and install," "install," and "provide" or words with similar meaning shall be interpreted, unless otherwise specifically stated, to mean "furnish and install complete in place and ready for service."

1.2.9 Engineer refers to the City, acting directly or through duly authorized representatives; such representatives acting within the scope of the duties and authority assigned to them.

Note: In order to avoid cumbersome and confusing repetition of expressions in the Contract Documents, it is provided that whenever anything is, or is to be done, if, as, or, when, or where "acceptable, accepted, approval, approved, authorized, condemned, considered necessary, contemplated, deemed necessary,

designated, determined, directed, disapproved, established, given, indicated, insufficient, ordered, permitted, rejected, required, reserved, satisfactory, specified, sufficient, suitable, suspended, unacceptable, or unsatisfactory," it shall be understood as if the expression were followed by the words "by the Engineer," "to the Engineer," or "of the Engineer."

1.3 Time of Completion: The Contractor shall complete the work within the time set forth in the Contract. The Contractor shall complete each portion of the work within such time as set forth in the Contract for such portion. The time of completion of the Contract shall be expressed in calendar days.

All work for this project shall be performed during regular business hours. A regular workday shall be considered to be a maximum of ten (10) hours duration. The cost for inspection time for work performed on weekends, holidays, or in excess of ten (10) hours may be billed to the Contractor at the prevailing wage plus overhead costs for those persons involved.

A working day is any day within the period between the start of the Contract time and the date provided in the Contract for completion or upon field acceptance by the City of all work provided for in the Contract, or as stipulated in the Technical Specifications, or whichever comes first, other than: **Saturday, Sunday, any day designated as a holiday by the City, any day the Contractor is prevented from working during the first five (5) hours of the work day, with at least sixty percent (60%) of the normal work force, due to inclement weather.**

Request for planned overtime by the Contractor must be submitted in writing to the City, forty-eight (48) hours in advance, and may not proceed without the City's approval.

1.4. Quality of Work: The Contractor agrees to do the work covered under this Contract to the best of his/her ability and conforming to this Contract and specifications and of a quality acceptable to the trades. The Contractor further agrees to follow proper and appropriate instructions by the City.

2.PROSECUTION AND PROGRESS

2.1 Subletting or Assigning of Contracts: The Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract or any portion thereof, or his right, title, or interest therein, without written consent of the City.

2.2 Preconstruction Meeting: After the Contract has been awarded, the City will schedule a preconstruction meeting to be held before any work is begun to review the construction aspects of the Project. The meeting will be between the City and the Contractor.

2.3 Performance and Payment Bond: The awarded Contractor shall furnish a certified recorded copy from Sarasota County Clerk's Office of the Performance and Payment Bond in the amount of 100% of the total project price within ten (10) calendar days after notification of award to the Purchasing Department. The undersigned shall be responsible and bear all costs associated to record Performance and Payment Bond with Sarasota County Clerk's Office. Receipt of said recording and a certified copy of the Bond shall be furnished to the Purchasing Department at the time of the pre-construction meeting.

2.4 Submission of Work Schedule/Order of Completion: At the preconstruction meeting, the successful Bidder shall have on hand a working schedule for the Project, showing in detail the order in which the Contractor proposes to perform the work. He/she shall indicate the dates on which major equipment will be delivered and various major items of work will start and the estimated completion dates of the major items. Construction Schedule provides additional information for ongoing scheduling requirements associated with this Contract.

2.5 Submission of Schedule of Values: A Schedule of Values to reflect value of equipment, materials and work performed per unit price, with totals shall be submitted at preconstruction meeting. Both parties are to agree on proposed schedule of values prior to any work being performed.

2.6 Provisions for Convenience of Public: The Contractor shall schedule his/her operations so as minimize any inconvenience to adjacent businesses for residences. Where necessary, the City may require the Contractor to construct first the work in any areas along the Project where restrictions caused by construction operations would represent a more serious handicap, before beginning construction in the less affected areas.

3. CONTROL OF THE WORK AND MATERIALS

3.1 Control of Work:

3.1.1 Plans and Contract Documents: If required for the project, the Contractor will be furnished a universal serial bus flash drive and four (4) signed and sealed building permit 11"x17" copies of the Plans, Technical Specifications, General and Special Provisions. Additional signed & sealed copies, if needed to obtain permits for the Work associated with this Contract, will be submitted upon written request. Other copies that may be needed by the Contractor shall be produced by the Contractor at his own expense.

3.1.2 Detail Drawings and Instructions: The City may furnish, with reasonable promptness, additional instructions by means of drawings or otherwise, necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the Contract documents, true developments thereof, and reasonably inferable there from.

3.1.3 Order of Precedence: These documents are integral parts of the Contract, and a requirement occurring on one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In cases of discrepancy, the governing order of documents shall be as follows:

3.1.3.1 Permits from Agencies as required by law

3.1.3.2 Change Orders

3.1.3.3 Contract Documents, General Provisions and Special Provisions in that order

3.1.3.4 Technical Specifications

3.1.3.5 Construction Plans

3.1.3.5.1 Dimensions given in figures govern scaled dimensions.

3.1.3.5.2 Detail drawings govern over general drawings.

3.1.3.5.3 Addenda/Change order drawings govern over Contract documents.

3.1.3.6 FDOT Roadway and Traffic Design Standards, January, latest edition (if applicable).

3.1.3.7 FDOT Standard Specifications, for Road & Bridge Construction, latest edition (if applicable).

3.1.3.8 North Port Utilities Standard Details and Specifications

3.1.4 Conformity of Work with Plans: All work performed and all materials furnished shall be in reasonably close conformity with lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown on the Plans or indicated in the Technical Specifications or Special Provisions.

3.1.5 Authority of the City: All work shall be done under the supervision of the City or the City's representative and performed to its satisfaction. It is agreed by the parties hereto that the City shall decide all questions and disputes which may arise relative to the interpretation of the plans, construction,

prosecution, and fulfillment of the Contract, and as to the character, quality, amount, and value of any work done, and material furnished, under or by reason of the Contract.

3.1.6 City's Status: The City and/or the City's Representative shall examine and inspect the work to assure compliance with the requirements of these Contract Documents. The City and/or the City's Representative shall determine the quality and acceptability of materials and workmanship relative to the requirements of the Plans and Technical Specifications.

The City has the authority to:

3.1.6.1 Stop the work whenever such stoppage may be necessary to insure the proper execution of the Contract.

3.1.6.2 Reject all work that does not conform to the Contract.

3.1.6.3 Resolve questions that arise in the execution of the work.

The City's Representative has the authority to:

3.1.6.4 Reject all work that does not conform to the Contract.

3.1.6.5 Resolve questions that arise in the execution of the work.

3.1.7 Suspension of Work: The City may at any time suspend work by giving ten (10) calendar days notice to the Contractor in writing. The City shall reimburse the Contractor for expenses incurred by the Contractor in connection with work under the Contract as a result of such suspension, unless such suspension was caused by actions of the Contractor. However, if the work or any part thereof shall be stopped by a notice in writing aforesaid, and if the City does not give written notice to the Contractor to resume work within thirty (30) calendar days of the date fixed in the written notice to suspend, then the Contractor will be entitled to the estimates and payment for all work done, unless such suspension was caused by actions of the Contractor.

3.1.8 The City's Right to do Work: If the Contractor should neglect to prosecute the work properly or fail to perform in accordance with the provisions of this Contract, the City, after three days written notice, may without prejudice to any other remedy it may have, make good any deficiencies and deduct from the payment due the Contractor.

3.1.9 The City's Right to Terminate Contract: If the Contractor refuses or fails to complete the work within the time specified for this Contract, or any extension thereof, the City may terminate the Contractor's right to proceed. In such event, the City may take over the work and prosecute the same to completion by the Contract or otherwise and the Contractor will be liable for any excess cost occasioned by the City. The City may take possession of and utilize in completing the work such materials and equipment as may be on the site of the work and necessary, therefore:

If the Contractor should be adjudged bankrupt, or should make a general assignment for the benefit of his/her creditors, or if a receiver should be appointed due to insolvency, or if he/she should refuse or fail, except in cases which a time extension is provided to supply enough personnel, or if he/she should fail to make payment to subcontractors for labor and/or material, or disregard laws, ordinances or the instructions of the City, or be guilty of a violation of a provision of the Contract, then the City may, without prejudice to any other right or remedy and after giving seven (7) calendar days' notice, terminate employment of the Contractor and possess materials, tools, and appliances thereon and finish work by methods it may deem expedient. Expenses incurred by the City and the damage incurred through the Contractor's default shall be borne by the Contractor.

In any circumstance, the City shall have the right to unilaterally cancel, terminate or suspend this Contract, in whole or in part, by providing the Contractor thirty (30) calendar days written notice by certified mail.

In the event of termination, the Contractor shall be entitled to compensation for services rendered and costs incurred through the effective date of termination. All finished or unfinished documents, material, or work shall become the property of the City and shall be delivered to the City without reservation.

3.1.10 City May Stop the Work: If the Work is defective, or the Contractor fails to supply sufficient skilled supervisory personnel or workers or suitable materials or equipment or the work area is deemed unsafe, the City may order the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated: however, this right of the City to stop the Work shall not give rise to any duty on the part of the City to exercise this right for the benefit of the Contractor or any other party. The City will not award any increase in Contract Price or Contract Time if the Work is stopped due to the circumstances described herein.

3.1.11 City's Decision: The City shall, within a reasonable time after their presentation, make decisions in writing on claims by the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the Contract Documents.

3.1.12 Authority and Duties of City's Inspectors: The City's Inspectors shall be authorized to inspect all work done and all materials furnished. They shall be authorized to call to the attention of the Contractor any failure of the work or materials to conform to the Technical Specifications and Contract. The presence of the Inspector shall in no way lessen the responsibility of the Contractor.

3.1.13 Inspection of Work: The City and its representative shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide proper facilities for such access and inspection. If the Specifications/Conditions, the City's instruction, laws, ordinances or any public authority require any work to be specially tested or approved, the Contractor shall give to the City timely notice of its readiness for inspection and, if the inspection is by an authority other than the City, the date fixed for such inspection. Inspections by the City shall be promptly made and, where practicable, at the source of supply. If any work should be covered up without approval or consent of the City, it must, if required by the City, be uncovered for examination at the Contractor's expense. Re-examination of questioned work may be ordered and the work must be uncovered by the Contractor.

3.1.14 Contractor's Supervision and Employees: The Contractor shall supervise, inspect, and direct the work completely and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the work in accordance with the Contract Documents. The Contractor shall be solely responsible for the means, methods, techniques, sequence and procedures necessary for the orderly progress of the work, and to maintain all safety precautions and programs incidental thereto. The Contractor shall at all times enforce strict discipline and good order among his/her employees and shall not employ any unfit person or anyone unskilled in the work assigned to him/her. The Contractor shall be responsible to see that the completed work complies fully with the Contract Documents.

The Contractor will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor.

As the work progresses, the Contractor shall keep on the job at all times an English-speaking Supervisor, Superintendent or designee, technically qualified, who is an employee of the Contractor and who shall not be replaced without written notice and approval of the City. The Superintendent or his/her qualified designee shall be present at the job site and direct the work of subcontractors, as well as employees of the Contractor. This supervisor will be equipped with a communication device enabling him/her to contact suppliers, subcontractors or his/her office who in turn can convey necessary communications to others. The Contractor shall issue all communications to the City or his/her representative.

The Contractor's Superintendent shall be present on the job site **at all times** while work is in progress and shall be available by phone for emergencies twenty-four hours per day, seven days per week. Failure to observe this requirement shall be considered suspension of the work by the Contractor until such time as such Superintendent is again present on the job.

If the Contractor, in the course of the work, finds any discrepancy between the drawing and the physical conditions of the site, or any errors or omissions in drawing, or in the construction layout points and instructions, he/she shall immediately inform the City, in writing, and the City shall promptly verify same. Any work done after such discovery will be done at the Contractor's risk.

Neither party shall employ or hire any employee of the other party without the concurrence of each party.

3.1.15 Contractor's Understanding: It is understood and agreed that the Contractor has, by careful examination, satisfied himself/herself as to the nature and locations of the work, the conformation of the ground, the character, quality, and quantity of materials to be encountered, the character of equipment and facilities needed prior to and during prosecution of the work under this Contract. No verbal agreement or conversation with any officer, agent, or employee of the City, either before or after execution of this Contract, shall affect or modify the terms or obligations herein contained.

3.1.16 Permits and Regulations: Permits and licenses necessary for the prosecution of the work shall be secured by the Contractor unless otherwise specified. The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the specifications and drawings are at variance therewith, Contractor shall promptly notify the City in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the City, he/she shall bear all costs arising there from.

3.1.17 Protection of Work and Property: The Contractor shall continuously maintain protection of all his/her work from damage and shall protect the City's property from injury or loss arising in connection with this Contract. He/she shall adequately protect adjacent property as provided by law and the Contract Documents. He/she shall provide and maintain all passageways, guard fences, lights, and other facilities for protection required by public authority or local conditions. In an emergency affecting the safety of life or of the work, or of adjoining property, the Contractor, without special instruction or authorization from the City, is hereby permitted to act, at their discretion, to prevent such threatened loss or injury, and he/she shall so act, without appeal, if so instructed or authorized. Any compensation claimed by the Contractor on account of emergency work shall be determined by agreement between the Contractor and the City.

The Contractor shall not occupy private land outside of any easements or rights of way unless a written authorization has been signed by the property owner. It shall be the Contractor's responsibility to obtain and provide these agreements prior to construction, if required. Prior to the use of private lands, the Contractor

shall submit a copy of the agreement(s) to the City. In the event the Contractor uses private property for any purpose without first having obtained the necessary approvals from the property owner and provided the necessary agreements to the City, the City will direct the Contractor in writing to immediately cease using such property.

Prior to application for final payment, the Contractor shall provide documentation from the owner of each piece of private property for which an agreement for use was provided, or for which the City has issued written notification to the Contractor, that each owner is satisfied with the manner in which the Contractor has restored the property. Final payment or reduction in retainage shall not be paid until such documentation is received by the City.

3.1.18 *Changes in the Work:* The City, without invalidating the Contract, may order extra work or make changes by altering, adding to or deducting from the work, the Contract sum being adjusted accordingly. Such work shall be executed under the conditions of the original Contract. The change and amount of compensation must be agreed upon in writing in a document of equal dignity herewith prior to any deviation from the terms of this Contract.

In giving instructions, the City shall have authority to make minor changes in the work, not involving extra cost, and not inconsistent with the purposes of the work. Except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the City: and no claim for an addition to the Contract sum shall be valid, unless ordered. Value of any such extra work or change shall be determined in one or more of the following ways:

- 3.1.18.1** By estimate and acceptance in a lump sum.
- 3.1.18.2** By unit prices named in the Contract or subsequently agreed upon.
- 3.1.18.3** By cost and percentage or by cost and a fixed fee.
- 3.1.18.4** By Change Order executed by City Manager.

If none of the previous methods are agreed upon, the Contractor, provided he/she receives an order as above, shall proceed with the work. In such case and also under case, he/she shall keep amendment in such form as the City may direct, a correct amount of the net cost of labor and materials, together with vouchers. The City shall certify to the amount, including reasonable allowance for overhead and profit, due to the Contractor. Pending final determination of value, no payment on changes shall be made. When requiring a change in the scope of services the Contractor shall notify the City by written notice that a change order is requested within five (5) days of any occurrence.

3.1.19 *Contingency:* An amount added to an estimate to allow for items, conditions, or events for which the state, occurrence, or effect is uncertain and that experience shows will likely result, in aggregate, in additional costs. All contingency items will require approval from the Purchasing Manager or designee, the Finance Director and City Manager prior to any work being performed.

3.1.20 *Deductions for Uncorrected Work:* If the City deems it inexpedient to correct work injured or done not in accordance with the Contract, some equitable deductions from the Contract price shall be made thereof.

3.1.21 *Delays and Extension of Time:* If the Contractor should be delayed at any time in the progress of work by any act of negligence by the City or its employees or by any other Contractor employed by the City, or by changes ordered in the work, or by such causes beyond the Contractor's control, or by delay authorized by the City, or by any cause which the City shall decide to justify the delay, then the time of completion shall

be extended for such reasonable time as the City may decide. However, no time delay shall be allowed if judged by the City to be caused by the Contractor's negligence.

No such extension shall be made for delay occurring more than seven (7) calendar days before claim therefore is made in writing to the City. In the case of a continuing cause of delay only one (1) claim is necessary. This article does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

3.1.22 Correction of Work Before Final Payment: All work, materials, whether incorporated in the work or not, all processes of manufacturer, and all methods of construction shall be at all times and places subject to the inspection of the City who shall be the final judge of quality and suitability of the work, materials, processes of manufacture, and methods of construction for the purposes for which they are used. Should they fail to meet City's approval: they shall be forthwith reconstructed, made good, replaced, and/or corrected, as the case may be, by the Contractor at his/her own expense. Rejected material shall be immediately removed from the site. If, in the opinion of the City, any portion of the work injured or not performed in accordance with the Contract Documents, the compensation to be paid to the Contractor hereunder shall be reduced by such amount as the City, in its judgement, finds to be equitable.

3.1.23 Contractor Right to Stop Work or Cancel Contract: If the work should be stopped under an order of any court or other public authority for a period of three (3) months through no act or fault of the Contractor or of anyone employed by him, or if the City fails to pay the Contractor within thirty (30) calendar days of maturity and presentation of any sum certified by the City, then the Contractor may, upon seven (7) calendar days written notice to the City, stop work and terminate this Contract.

3.1.24 Removal of Equipment: In the case of annulment of this Contract before completion from any cause whatever, the Contractor, if notified to do so by the City, shall promptly remove any part or all of his equipment and supplies from property of the City and/or site of work, failing which the City has the right to remove such equipment and supplies at the Contractor's expense.

3.1.25 Use of Completed Portions: The City has the right to take possession of and use any completed or partially completed portions of the work, notwithstanding the time for completing the entire work of such portions may not have expired, but taking possession and use shall not be deemed an acceptance of any work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the work, the Contractor shall be compensated as the City may determine and the City approves.

3.1.26 Payments Withheld: The City may withhold payment to the Contractor from loss on account of:

- 3.1.26.1** Defective Work not remedied.
- 3.1.26.2** Claims filed or evidence indicating probable filing of claims.
- 3.1.26.3** Failure of the Contractor to make payment properly to Subcontractors or for material/labor.
- 3.1.26.4** A reasonable doubt that the Contract can be completed for the balance then unpaid.
- 3.1.26.5** Damage to another Contractor.
- 3.1.26.6** When the above grounds are removed, payment shall be made for amounts withheld because of them.

3.1.27 Damages: Any claim for damage arising under this Contract shall be made in writing to the party liable within a reasonable time of the first observance of such damage and not later than the time of final payment, except as expressly stipulated otherwise in the case of faulty work, and shall be adjusted by agreement.

3.1.28 Assignment: Neither party to the Contract shall assign the Contract or sublet it as a whole without the written consent of the other, nor shall the Contractor assign any monies due or to become due to him/her hereunder without the previous written consent of the City.

3.1.29 Right of Various Interests: Before work being done by the City's forces or by other Contractor's forces, contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the City before such commencement, to secure the completion of the various portions of the work in general harmony.

3.1.30 Separate Contracts: The City reserves the right to let other Contracts in connection with this work. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and execution of the work and shall properly connect and coordinate his/her work with theirs. If any part of the Contractor's work depends on proper execution or results upon the work of any other Contractor, the Contractor shall inspect and promptly report to the City any defects in such work that render it unsuitable for such proper execution and results. His/her failure to so inspect and report shall constitute an acceptance of the other Contractor's work as fit and proper for the reception of his work, except as to defects, which may develop on the other Contractor's, work after execution of his work.

3.1.31 Subcontractors: The Contractor shall provide a list of Subcontractors with his/her proposal for approval. The Contractor shall be fully responsible for all acts and omissions of his Subcontractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that Contractor is responsible for the acts and omissions of persons directly employed by Contractor. Nothing in the Contract Documents shall create any Contractual relationship between City or City's Engineer of Record and any Subcontractor or other person or organization having a direct Contract with Contractor, nor shall it create any obligation on the part of City or City's Engineer of Record to pay or to see to the payment of any moneys due any Subcontractor or other person or organization, except as may otherwise be required by law. City or City's Engineer of Record may furnish to any Subcontractor or other person or organization, to the extent practicable, evidence of amounts paid to Contractor on account of specific Work done in accordance with the schedule of values.

Substitutions must be submitted in writing and shall be subject to the approval by the City. To ensure proper execution of his/her subsequent work, the Contractor shall measure work already in place and shall at once report to the City any discrepancy between the executed work and the drawings.

Acceptance of any such Subcontractor, person or organization shall not constitute a waiver of any right of the City, City's Representative, or Engineer to reject defective Work, material or equipment: or, Work, material or equipment not in conformance with the requirements of the Contract Documents.

The divisions and sections of the Specifications and the identifications of any Drawings shall not control the Contractor in dividing the Work among Subcontractors or delineating the Work to be performed by any specific trade.

The Contractor agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the City.

All Work performed for the Contractor by a Subcontractor shall be pursuant to an appropriate agreement between the Contractor and the Subcontractor.

The Contractor shall be responsible for the coordination of the trades, Subcontractors and suppliers engaged upon his Work.

- The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the Contractor by the terms of these General Conditions and other Contract Documents insofar as applicable to the Work of Subcontractors, and to give the Contractor the same power in regard to terminating any subcontract that the City may exercise over the Contractor under any provisions of the Contract Documents.
- The City, City's Representative, or Engineer will not undertake to settle any differences between the Contractor and his Subcontractors or between Subcontractors.
- If in the opinion of the City, City's Representative, or Engineer, any Subcontractor on the Project proves to be incompetent or otherwise unsatisfactory, Subcontractor shall be replaced if and when directed in writing.

3.1.32 Horizontal and Vertical Control: Unless noted otherwise in the Contract documents, the Contractor shall be responsible for the layout of all Contract work. The Contractor shall employ or retain any/all professional services that are required by the Contract to complete the work. The Contractor shall carefully preserve benchmarks, reference points and stakes, and, in case of willful or careless destruction, be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

3.1.33 Lands for Work: The City shall provide the lands upon which the work under this Contract is to be done, except that the Contractors shall provide land required for the erection of temporary construction facilities and storage of material, together with the right of access to same.

3.1.34 Cleaning Up: The Contractor shall, at such times as may be required by the City, remove from the City's property and from all public and private property, at his/her own expense, all temporary structures, used materials and equipment, rubbish and waste materials resulting from his/her operations. All damaged areas will be restored by the Contractor to their original conditions and approved by the City. By submission of a bid, the Contractor assumes full responsibility for the associated expenses. There shall not be an increase in time or price associated with such removal, and payment to Contractor may be withheld until such work is completed.

3.1.35 Guarantee: The Contractor shall warrant all equipment furnished and work performed by him/her for a period of one (1) year from the date of written acceptance of the work, final completion by the City or as may be otherwise specified. Any faulty work or equipment will be fully corrected at no cost to the City and restored work will be warranted for one year from the date of acceptance, or as may be otherwise specified. This will not release additional warranties required by other sections or provided by individual suppliers.

The making and acceptance of final payment shall not waive any claim for faulty work appearing after final payment or for failure to adhere strictly to the Contract documents. If any part of the project is guaranteed for a longer period, such longer period shall prevail. Except as otherwise specified, all work shall be guaranteed by the Contractor against defects resulting from use of inferior materials, equipment or

workmanship for one (1) year from the date of completion or written acceptance by the City, whichever is later.

3.1.36 Responsibility Regarding Existing Utilities and Structures: The existence and location of underground utilities indicated on the plans are not guaranteed and shall be investigated and verified in the field by the Contractor before submitting a bid. Excavation in the vicinity of existing structures and utilities shall be done by hand. The Contractor shall be responsible for any damage to, and for maintenance and protection of, existing utilities and structures from any damage resulting from said excavation. The Contractor is to include within his line-item bid prices the costs to protect, support, relocate, or move (whether shown or not shown on the proposed project set of plans) all underground utilities, which may be in conflict with the construction of the proposed project.

3.1.37 Accidents: The Contractor shall provide equipment and medical facilities as necessary to supply first aid to anyone who is injured in connection with the work. The Contractor must promptly report in writing to the City accidents arising out of, or in conjunction with the performance of the work, whether in, or adjacent to, the site, which causes death, personal injury, or property damages, giving full details and statements of witnesses. If death or serious injuries or serious damages are caused, the accident shall be reported immediately by telephone or messenger to the City. If a claim is made by anyone against the Contractor or Subcontractor on account of an accident, the Contractor shall promptly report the facts in writing to the City, giving full details of the claim.

3.1.38 Stage Plans: Stage plans of structural alterations, cofferdams, dredging, furnished or approved by the City, shall be adhered to unless objected to in writing by the Contractor, but the submission or approval of stage plans by the City shall not relieve the Contractor of full responsibility for the work.

3.1.39 Measurement of Quantities: The quantities of work performed will be computed by the City on the basis of measurement taken by the City or its assistants, and these measurements shall be final and binding. All work computed under the Contract shall be measured by the City according to the United States Standard Measurement and Weights. The City does not assume any responsibility that the final quantities will remain in accord with estimated quantities, nor shall the Contractor claim misunderstanding or deception because of such estimate of quantities.

The estimated quantities of work to be done and material to be provided may be increased, decreased, or omitted, as provided herein. Any increase in quantities shall be approved by the City prior to any work.

3.1.40 Reference to Other Specifications: Where reference is made to specifications such as ASTM, AWWA or AASHTO, the latest edition shall be used.

3.1.41 Sanitary Facilities: The Contractor shall provide and maintain, in a sanitary condition, facilities for his/her employees as are required by local and state boards of health.

3.1.42 Quality of Equipment and Materials: To establish standards of quality, the City may, in the specifications, refer to products by name and/or catalog number. This procedure is not to be construed as eliminating from competition other products of equal quality by other manufacturers where fully suitable in design.

3.1.42.1 The Contractor shall furnish a complete list of proposed desired substitutions prior to signing of the Contract together with such engineering and catalog data as the City may require.

3.1.42.2 The Contractor shall abide by the City's judgment when proposed substitute items of equipment are judged unacceptable and shall furnish the specified item of equipment in such case. All proposals for substitutions shall be submitted in writing by the General Contractor. The City will approve or disapprove proposed substitutions in writing within a reasonable time.

3.1.43 Codes and Laws: The successful Bidder shall comply with all Federal, State, Local Laws and Ordinances that affect the Contract in any way.

3.1.44 Traffic Control: The Contractor shall comply with the National Committee on Uniform Traffic Control and Devices (NCUTCD) standards established by the Federal Highway Commission and the most current FDOT Standards for Traffic Control Through Work Zones and maintain safe conditions at all times.

3.1.45 Exploration and Reports: If reference is made to identification of reports of explorations and tests of subsurface, or other project specific, conditions at the site that have been used in preparing the Contract documents, it should be understood that these reports are not part of the Contract documents. The Contractor shall have full responsibility with respect to subsurface, or other project specific, conditions at the site. Technical data, made available only at the Contractor's request, may not be sufficient for construction purposes. Additional investigations may be necessary for the purposes of carrying out the construction project. If the Contractor desires additional subsurface, or other applicable project specific, investigation, it will be done at his/her expense, prior to bidding. Limited Subsurface, or other project specific, reports for this project are available through North Port Department of Public Works.

If the Contractor has elected not to make subsurface, or other project specific, investigation prior to bidding, he/she shall not be entitled to any extra compensation or Contract change orders due to conditions encountered.

3.1.46 Existing Structures: Drawing of physical conditions in or relating to existing surface and subsurface structures which are at or contiguous to the site that have been utilized by the consultant and/or the City in preparation of the Contract documents. The Contractor may rely upon the accuracy of the technical data contained in such drawing but not for the completeness thereof for the purpose of preparing or submitting a bid. Except as previously indicated, the Contractor shall have full responsibility with respect to physical conditions in or relating to such structures.

3.1.47 Report of Differing Conditions: If the Contractor believes that any technical data on which he/she relies is inaccurate, or if any physical conditions uncovered or revealed at the site differ materially from that indicated, reflected, or referred to in the Contract documents, the Contractor shall promptly, after becoming aware and before performing any work in connection therewith (except in emergency situations), notify the City in writing about the inaccuracy of difference. The City will promptly review the pertinent conditions, determine the necessity of obtaining additional explorations or tests with respect thereto and advise the City in writing (with a copy to the Contractor) of the City's findings and conclusion. Contractor's cost of, or the time required for, performance of any part of the work under this Contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the Contract modified in writing accordingly.

No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required: provided, however, the time prescribed therefore may be extended by the City.

No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

3.1.48 Not Shown or Indicated: If an underground facility is uncovered or revealed at or contiguous to the site, which was not shown or indicated and of which the Contractor could not reasonably have been

expected to be aware, the Contractor shall promptly, before performing any work (except in emergencies), identify the owner of such underground facility and give written notice thereof to that owner and to the City. The *Contractor* will review the underground facility to determine the extent to which the documents should be modified to reflect and substantiate the consequences of the existence of the underground facility. With City approval, the Contract documents will be amended or supplemented to the extent necessary. During such time, the Contractor shall be responsible for the safety and protection of such underground facility. The Contractor shall be allowed an increase or an extension of time, or both, to the extent that they are attributable.

3.1.49 *Progress Meeting:* Progress meetings will be conducted bi-weekly or as required if requested by Contractor or the City.

3.2 *Storage of Materials*

3.2.1 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.

3.2.2 Contractor is not entitled to payment for same except for those materials which in City'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.

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

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

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

3.2.6 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:

3.2.6.1 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.

3.2.6.2 Evidence that proper storage security is provided.

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

3.2.6.4 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 City from any responsibility for Stored Materials and assumes all liability for and risk of loss or damage, by whatever means, including City's alleged negligence, regardless of whether the City has paid for said Stored Materials.

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

3.2.8 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 City.

- 3.2.9** It is further agreed between the parties that the transfer of title and the City'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.
- 3.2.10** The Contractor warrants that title to all of the Work or Stored Materials covered by the Application for Payment will pass to the City 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.
- 3.2.11** In the event stored materials which the City 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.

END OF SECTION II

SECTION III. SPECIAL PROVISIONS

SP-01 INTENT: The purpose of this project is to obtain a competent, experienced and responsible Contractor to construct the project in accordance with the plans and specifications, in an expeditious manner that reasonably protects the public and adjacent property from the construction of the project.

The Contract Documents comprise the entire agreement between City and Contractor concerning the work. The Contract Documents are complementary; what is called for by one is as binding as if called for by all. The Contract Documents will be construed in accordance with the law of the place of the project. The work specified herein shall consist of furnishing all supervision, labor, equipment, material and any incidentals required for the successful completion of all work as specified herein. All work shall conform within the limits as specified and shown and be in conformance with the appropriate Technical Specifications contained herein.

The plans, technical specifications, and other documents provided are intended to provide the Contractor with known conditions of the existing site and proposed work area. The Contractor is responsible to conduct any and all investigation, survey, or other activities required to fully understand the existing site and conditions that will be encountered during the project, and on which their bid will be based. Additional investigations may be necessary for the purposes of carrying out the construction project. The City of North Port will not consider or approve any claim for additional time or monetary compensation submitted by the Contractor caused by unknown site conditions or a failure by the Contractor to fully investigate and understand the full extent and nature of the work. This includes, but is not limited to, existing utilities as well as subsurface conditions.

SP-02 EQUIPMENT: The Contractor shall only use equipment, machines, or combination of machines that are in good and safe working condition. The equipment shall produce results that meet or exceed the Technical Specifications stated herein.

Equipment incapable of providing this will not be acceptable for use on this Project. The Contractor shall not use equipment which is unsafe or in need of repair. Work completed with equipment, which is not properly functioning, shall be deemed unacceptable.

SP-03 CONSTRUCTION SCHEDULE: The work will be substantially complete within **270 calendar days** with final completion within **30 calendar days** after attaining Substantial Completion as established by the City. The date for **Final Completion** of the Project shall be established as **300 calendar days after** Notice to Proceed.

The Contractor shall furnish copies of the Construction Schedule to the City when requested to perform the work as outlined in the Bid Form. The City will notify the Contractor of such as needed work and the Contractor will provide a Construction Schedule to the City within thirty (30) days of the City's notification. A project update meeting will be held bi-weekly, or as required during contract.

SP-04 PRE-CONSTRUCTION CONFERENCE: A Pre-Construction Conference will be held, at which time the Contractor shall submit the following for the City's approval or acceptance:

A telephone list specifying the name, address, office phone number and cell phone numbers of all subcontractors or suppliers to be used on this project. If the Contractor proposes to subcontract any survey work that may be required, the Contractor shall include the registration number of the surveyor. The telephone list shall also include emergency telephone numbers. The Contractor shall include a 24-hour emergency telephone for the City's use, which the Contractor shall update as necessary throughout the

project. The Contractor shall request, in writing, any changes in subcontractors or suppliers.

No change in subcontractors or suppliers shall be made without written consent and approval from the City.

- In addition to the telephone and facsimile numbers, the Contractor shall provide an e-mail address where emails can be sent. The e-mail address must be monitored at least daily and capable of transferring electronic files.
- The Contractor shall submit to the City a list of equipment the Contractor proposes to utilize on this project.
- The Contractor shall submit for City approval a paper copy and electronic copy of a Construction Schedule prepared using City approved software, and a Schedule of Progress Payment Requests.
- The Contractor shall also submit all other materials or mix designs, which will be used by the Contractor for this Contract.

Mobilization may not start until all submittals have been accepted by the City and/or City's Representative. Once approved, no changes will be allowed without the written approval of the City and/or the City's Representative.

The Contractor shall also provide, on a monthly basis, an update to the Construction Schedule reflecting changes made as a result of such reasons as weather, breakdowns, and unanticipated delays, as a means of better monitoring the project.

SP-05 PROGRESS MEETING: For this project, progress meetings shall be bi-weekly, or as requested by the Contractor or the City. The Contractor shall designate a representative to attend Progress Meetings held at the North Port Utilities Field Office, 6644 West Price Boulevard, North Port, Florida. The Contractor shall submit, at each meeting, up-to-date schedule information, a written projected schedule for the next two weeks, written claims for additional compensation, written claims for weather days to extend the Contract, results of all testing and Value Engineering Proposals. The City will use the updated schedule information to monitor the Contractor's production rate. Upon written notice from the City, the Contractor shall dedicate additional resources to increase the production rate such that the Contractor will be back on schedule. Failure to comply with the approved Construction Schedule shall result in the Contractor being considered in default and subject to suspension of this Contract. Contractor may request progress meetings be on a different schedule than bi-weekly provided the City can confirm work is proceeding expeditiously. City may require a return to bi-weekly progress meetings at any time.

SP-06 COOPERATION WITH UTILITIES: The Contractor shall notify all utility owner(s) affected by the construction prior to beginning work. Any expense of utility repair or other damage due to Contractor's operations shall be borne by the Contractor. Exploratory work prior to construction and protection of utilities shall be the responsibility of the Contractor, who shall provide adequate protection to maintain proper service.

NOTE: The Contractor is to include within his bid prices, the costs to protect, and/or support, all above ground, overhead and underground utilities, which may be in conflict with the construction of this proposed project. No separate payment will be made for protection to existing utilities or for exploratory excavations.

Attention is called to the Florida Underground Facility Damage Prevention and Safety Act defined in Florida Statute. This act provides for a "One Call Toll Free" telephone number to be used by all parties doing excavation, demolition or other underground construction.

SP-07 CONTRACT TIME: The Contractor specifically agrees that it will commence operations within a mutually agreed upon time following notification by the City to commence work and that all work to be performed under the provisions of this Contract shall be completed not more than **300 calendar days after** Notice to Proceed; subject

only to delays caused through no fault of the Contractor or acts of God. Time is of the essence in the performance of this Contract. The contract time includes up to fourteen (14) calendar days for City and/or City's Engineer of Record review of each submittal and resubmittal. There shall be no extension of time provided for modification and corrections or re-submittals to address deficiencies therein identified during the review by the City and/or City's Engineer of Record.

The work will be substantially complete within **270 calendar days**; with final completion within **30 calendar days** after attaining Substantial Completion as established by the City. City shall provide the Contractor with a listing of items to be corrected or completed (punch list) after Substantial Completion is issued. The punch list will identify the remaining items that must be addressed to the satisfaction of the City by the Contractor to meet his/her obligations under the Contract. The Contractor shall complete all items on the punch lists to the satisfaction of the City prior to submittal of the application for final payment.

All extensions to the Contract time for permitted delays shall be by Change Order and signed by the City.

SP-08 PROJECT COMPLETION: Project final completion shall be defined as "the stage in the progress of the Work where the Work is complete in accordance with the Contract Documents so that the City can begin to utilize the Work for its intended use, all punch list items are complete, and the Contractor has completely demobilized from the project area." Project final completion shall not be more than **300 calendar days**.

SP-09 LIQUIDATED DAMAGES: The work shall be completed within the contract time as required by SP-08 "PROJECT COMPLETION." The contract time shall include the preparation, submittal, review and approval of submittals, delivery of materials, and construction, assembly, adjustment and placement into service for beneficial use of all facilities covered under this Contract. The City of North Port shall issue a Notice of Completion when it has determined that the work identified in the contract has been completed per SP-08 "PROJECT COMPLETION."

The City and the Contractor hereby agree that time is of the essence on this Contract and the City will suffer damages if the work is not completed within the contract time as required by SP-07 "Contract Time". It is further recognized and agreed by the City and the Contractor that the determination of the exact value of the damages the City would suffer due to a delay in the Completion of the work would be a difficult, time consuming and costly process. It is therefore hereby agreed by the City and the Contractor that it is in their mutual interest to establish a figure **SEVEN AND FIFTY-ONE DOLLARS (\$751.00)** as Liquidated Damages (but not as a penalty) to be paid by the Contractor to the City for each calendar day that Completion is delayed beyond the Contract Time. It is mutually agreed by the City and the Contractor that neither shall make any claim to increase or reduce the amount to be paid under Liquidated Damages as the result of any calculation of actual damages suffered by the City as the result of delay in the Completion of the work.

For all contracts, regardless of whether the contract time is stipulated in calendar days or working days, the City will count default days in calendar days. If the Contractor or, in case of his default, the surety fails to complete the work within the time stipulated in the Contract, or within such extra time that the City may have granted the Contractor or, in case of his default, the surety shall pay to the City, not as a penalty, but as liquidated damages, in the amount of **\$751.00** per calendar day in which work is not completed.

The City has the right to apply, as payment on such liquidated damages, any money the City owes the Contractor.

The City does not waive its right to liquidated damages due under the Contract by allowing the Contractor to continue and finish the work, or any part of it, after the expiration of the Contract Time including granted time extensions.

In the case of default of the Contract and the completion of the work by the City, the Contractor and his surety are liable for the liquidated damages under the Contract, but the City will not charge liquidated damages for any delay in the final completion of the City's performance of the work due to any unreasonable action or delay on the part of the City.

The City considers the Contract complete when the Contractor has completed all work and the City has accepted the work. The City will then release the Contractor from further obligation except as set forth in his bond.

SP-10 DAMAGES: Areas adjacent to the construction that are damaged shall be repaired at the Contractor's expense. Restoration of adjoining areas shall be equal to or better than original condition and to the satisfaction of the City. Protection of personal property, utilities, structures, access drives, conduits, pavement, curbs, sidewalks, trees, and shrubs shall be the responsibility of the Contractor, who shall provide adequate protection to maintain proper service.

SP-11 CONTINUOUS PROSECUTION OF WORK: The Contractor shall continuously prosecute the work in accordance with the Contract Documents. Upon written direction from the City, the Contractor shall remove any personnel for the duration of the Contract, who fails to comply with the Contract Documents.

Once commencing the project, the operation must be continuously prosecuted during normal hours to its completion. At no time, shall the Contractor suspend work, for any reason for more than seven (7) calendar days, excluding delays granted for inclement weather. Should the Contractor fail to perform any work on the project for three (3) or more work days, the Contractor shall submit a written request to the City, no less than twenty-four (24) hours in advance of the restart of work, to allow the City to schedule the required inspection personnel. No work may restart, prior to the expiration of the twenty-four (24) hour notice without the City's approval.

Correction of safety concerns will be given priority and shall be corrected as soon as practicable, but not later than 24 hours after discovery by the City and notification to the Contractor. Failure to comply with these Provisions and/or Technical Specifications shall result in the Contractor being considered in default and subject to suspension of this contract.

SP-12 SAFETY AND PROTECTION:

- A. Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. Contractor shall take all necessary precautions for the safety of and shall provide the necessary protection to prevent damage, injury or loss to:
 - i. All employees on the work and other persons or organizations who may be affected thereby.
 - ii. All the work and materials and equipment to be incorporated therein, whether in storage on or off the site.
- B. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and underground facilities not designated for removal, relocation or replacement in the course of construction. Contractor shall comply with all applicable Laws and Regulations of any public body having jurisdiction for the safety of person or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection.
- C. All personnel working within the City's right-of-way shall at all times wear City approved safety vests, including personnel who may only briefly be out of their vehicle (i.e., supervisors, truck drivers).
- D. No open excavations are allowed on the project. Any pipe installation shall be backfilled properly the same day of work on such pipe area to allow safe passing of pedestrians and vehicles. The Contractor shall immediately remove any personnel who fail to conform to this requirement.

E. Contractor shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be the contractor's superintendent unless otherwise designated in writing by Contractor to City.

SP-13 CHANGES IN THE WORK: The City, without invalidating the Contract, may order extra work or make changes by altering, adding to or deducting from the work, the Contract sum being adjusted accordingly. Such work will be an **amendment to the contract** and shall require approval by the City Manager prior to prosecution of the additional work. The change and amount of compensation must be agreed upon in writing in a document of equal dignity herewith prior to any deviation from the terms of this Contract. In giving instructions, the City shall have authority to make minor changes in the work, not involving extra cost, and not inconsistent with the purposes of the work. Except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the City; and no claim for an addition to the Contract sum shall be valid, unless ordered.

Contingency: An amount added to an estimate to allow for items, conditions, or events for which the state, occurrence, or effect is uncertain and that experience shows will likely result, in aggregate, in additional costs. All contingency items will require approval from the Purchasing Manager or designee, the Finance Director and City Manager prior to any work being performed.

Value of any such extra work or change shall be determined in one or more of the following ways:

1. By estimate and acceptance in a lumpsum.
2. By unit prices named in the contract or subsequently agreed upon.
3. By cost and percentage or by cost and a fixed fee.
4. By Change order executed by CityManager
5. By Contingency Authorization (executed by City Manager).

If none of the previous methods are agreed upon, the Contractor, provided he receives an order as above, shall proceed with the work. In such case and also under case, he shall keep amendment in such form as the City may direct, a correct amount of the net cost of labor and materials, together with vouchers. The City shall certify to the amount, including reasonable allowance for overhead and profit, due to the Contractor. Pending final determination of value, no payment on changes shall be made.

SP-14 SUBCONTRACTING, SUBLETTING AND/OR ASSIGNMENT: Do not, sell, transfer, assign or otherwise dispose of the Contract or Contracts or any portion thereof, or of the right, title, or interest therein, without written consent of the City. If the Contractor chooses to sublet any portion of the Contract, the Contractor must provide a written request to sublet work to the City for approval. With the City's acceptance of the request, the Contractor may sublet a portion of the work, but shall perform with its own organization work amounting to **not less than 40%** of the total Contract amount. The request will be deemed acceptable by the City, for purposes of the City's consent, unless the City notifies the Contractor within five (5) business days of receipt of the request that the City is not consenting to the requested subletting.

Include in the total Contract amount the cost of materials and manufactured component products, and their transportation to the project site. For the purpose of meeting this requirement the City will not consider off-site commercial production of materials and manufactured component products that the Contractor purchases, or their transportation to the project, as subcontracted work.

If the Contractor sublets a part of a Contract item, the City will use only the sublet proportional cost in determining the percentage of subcontracted normal work. Execute all agreements to sublet work in writing and include all

pertinent provisions and requirements of the Contract. All other agreements must be in writing and reference all applicable Contract provisions. Upon request, furnish the City with a copy of the subcontract and agreement. The subletting of work does not relieve the Contractor or the surety of their respective liabilities under the Contract.

The City recognizes a subcontractor only in the capacity of an employee or agent of the Contractor and the Engineer may require the Contractor to remove the subcontractor as in the case of an employee.

All sublets will be in continued compliance with all Contract provisions and the Contractor will continue to perform the minimum percentage of Contract work with its own organization, as required by said Contract. It is recognized and agreed that the prime contractor remains responsible for the proper performance of all requirements of said contract and use of sublet does not relieve or release the Contractor and his surety or either of them of any liability under the contract bond. A false statement or omission made in connection with subletting is sufficient cause for suspension, revocation, or denial of qualification to bid, and a determination of non-responsibility, and may subject the person and/or entity making the false statement to any and all civil and criminal penalties available pursuant to applicable Federal and State Law.

SP-15 AVAILABILITY OF LANDS: Work is planned to occur within rights of way or existing utility easements. The Contractor will be held responsible to obtain right of way use permit(s) from the City of North Port. NPU will pay the permit fee directly to the Neighborhood Development Services Department. Any additional or repeat inspection or testing charges shall be paid by the Contractor. See Special Provision SP-17.

SP-16 COORDINATION OF THE SPECIFICATIONS: Where conflicts between the City of North Port General Provisions, Special Provisions, Technical Specifications and Construction Plans, references, should they exist, it is the responsibility of the bidding Contractor to bring those conflicts to the attention of the Purchasing Agent prior to the bid date. After bids, have been received, the contractor will be held to the most stringent requirement.

The Contractor shall take no advantage of any apparent error or omission in the plans or specifications. If the Contractor discovers such an error or omission, he shall immediately notify the City. The City will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the plans and specifications.

SP-17 CONSTRUCTION PERMITS: Florida Department of Environmental Protection/Department of Health permits are not required for this work.

The City will pay for all permit fees determined by the Neighborhood Development Services Department and the City of North Port Public Works Department. For this project, Right of Way (ROW) permit(s) will not be required. The City will make payment directly to the Neighborhood Development Services Department for any miscellaneous fees assessed for the necessary permits and related inspections. Additional or re-inspection fees shall be paid for by the Contractor. Pressure testing the system, if required, shall be paid for by the Contractor. Permits and licenses necessary for the prosecution of the work shall be secured by the Contractor.

SP-18 NOTICE-OF-INTENT (NOI): If necessary, the Contractor for the project shall submit a Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, along with the permit fee with the Florida Department of Environmental Protection.

SP-19 SPECIFICATIONS AND PLANS: Information regarding this project may be viewed and downloaded from DemandStar's website at www.demandstar.com. Links to DemandStar are also available from the city website at www.cityofnorthport.com. Bid documents are posted on the City FTP site at <https://www.cityofnorthport.com/filesshare>.

SP-20 CONTRACTOR'S UNDERSTANDING: It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and locations of the work, the conformation of the ground, the character, quality, and quantity of materials to be encountered, the character of equipment and facilities needed prior to and during prosecution of the work under this Contract. No verbal agreement or conversation with any officer, agent, or employee of the City, either before or after execution of this Contract, shall affect or modify the terms or obligations herein contained.

SP-21 ERRORS OR OMISSIONS IN PERMITS, PLANS OR SPECIFICATIONS: The Bidder shall take no advantage of any apparent error or omission, which may be discovered in the Permits, Plans or Specifications but shall forthwith notify the City Representative of such discovery, who will then make such correction and interpretations as deemed necessary for reflecting the actual spirit and intent of the Permits and Specifications.

SP-22 ROAD/LANE CLOSURE: No road closures are allowed. A lane closure request must be submitted in writing five (5) business days in advance of the requested lane closure. The time and length of closure(s) shall be approved by the City of North Port. The Contractor shall provide a Maintenance of Traffic (MOT) Plan for the requested lane closure(s) for review and approval by the City of North Port.

SP-23 MAINTENANCE OF TRAFFIC: The contractor shall be responsible for all maintenance of traffic and obtaining approval of a Maintenance of Traffic (MOT) Plan from the City for work within the ROW of any City Road. The Contractor shall maintain traffic at all times during construction.

SP-24 DEWATERING: The Contractor shall request approval from the City of North Port Project Manager before applying for a permit from the Southwest Florida Water Management District.

SP-25 PRIVATE PROPERTY: The Contractor shall not occupy private land outside of any easements or rights of way unless a written authorization has been signed by the property owner. It shall be the Contractor's responsibility to obtain these agreements prior to construction, if required. Prior to the use of private lands, the Contractor shall submit a copy of the agreement(s) to the City. In the event that the Contractor uses private property for any purpose without first having obtained the necessary approvals from the property owner or provided the necessary agreement to the City, the City will direct the Contractor in writing to immediately cease using such property.

Prior to application for final payment, the Contractor shall provide documentation from the owner of each piece of private property for which an agreement for use was provided, or for which the City has issued written notification to the Contractor, that each owner is satisfied with the manner in which the Contractor has restored the property. Final payment or reduction in retainage shall not be paid until such documentation is received by the City.

Any areas, outside of the rights-of-way or easements that are impacted or damaged by the Contractor's activities shall be repaired at the Contractor's expense to the property owner's satisfaction. Restoration of impacted areas shall be equal to or better than original condition and to the satisfaction of the property owner. The Contractor shall be responsible to secure written approval of the restoration of the property from the property owner and submitting a copy to the City prior to requesting Substantial Completion. The City shall not release retainage to the Contractor until such time as the approvals are submitted by the Contractor.

SP-26 RESIDENTS CONCERNS: During the work of this Contract, residents may contact the City to question the progress of the work or express concerns regarding the work. These concerns are responded by City's Utilities Department, but normally the Contractor will have more detailed information on the actual scheduling of the work or corrective measures required. Therefore, the Contractor will provide a telephone number and email address where City's Utilities Department can fax or email inquiries. The Contractor shall respond to these inquiries within two (2)

business days detailing how the inquiry will be addressed and the time frame the Contractor will take in addressing this inquiry. City's Utilities Department will maintain a log of inquiries, which will be reviewed at each progress meeting.

SP-27 TESTING: Any and all testing requirements born out of, but not limited to contract requirements and permits, for the installation of utility piping, including but not limited to, pressure testing, will be included in the Contractor's bid price. Testing shall include all utilities installed as part of the work of these Contract Documents. Testing will be arranged in advance with an independent testing firm (also included in the bid price) for the testing of concrete and compaction. The City requests to be notified three (3) business days in advance of any test in order to have a City representative and the Engineer of Record, if required, present. Where less time for notice is specified in the specifications or plans, this special provision shall prevail.

SP-28 MISCELLANEOUS ITEMS: Miscellaneous items and accessories which are not specifically mentioned, but which are essential to produce a complete and properly operating installation, or usable structure or plant, providing the indicated function, shall be furnished and installed without change in the Contract Price. Such miscellaneous items and accessories shall be of the same quality standards, including material, style, finish, strength, class, weight and other applicable characteristics, as specified for the major component of which the miscellaneous items or accessory is an essential part, and shall be approved by the City's Engineer of Record before installation. The above requirement is not intended to include major components not covered by or inferable from the Drawings and Specifications.

SP-29 SOURCES OF WATER FOR TESTING, CLEANING, AND OTHER CONSTRUCTION PURPOSES: Reclaimed water piping pressure and flow testing and flushing may be done with reclaimed water. All Contractors' connection(s) to the City reclaimed water supply shall allow the City to meter the amount of reclaimed water used in testing, flushing, and other miscellaneous purposes during construction, etc. The Contractor is responsible for obtaining meter(s) and associated appurtenances, and paying all appropriate fees/deposits. Contractor shall not use any water until meter is installed. The actual reclaimed water used will be provided at no cost to the Contractor by Utilities. Any fees/deposits due back to the Contractor will be returned after the project is completed and the meter is removed.

If potable water is required for the Work of this Contract, all Contractors' connection(s) to the City potable water supply shall allow the City to meter the amount of water used. All potable water connections shall include a reduced pressure zone backflow preventer. The Contractor is responsible for obtaining meter(s), backflow preventers, and associated appurtenances, and paying all appropriate fees/deposits. Contractor shall not use any potable water until meter and backflow preventer are installed. The Contractor will set up an account with the City and will be billed at the City's normal rates for actual potable water used. Any fees/deposits due back to the Contractor will be returned after the project is completed and the meter is removed.

SP-30 POTABLE WATER AND WASTEWATER FORCE MAIN OVER-DEPTH AND PLACEMENT: Potable water mains and wastewater force mains shall be installed with a minimum of thirty-six (36") inches of cover over the pipe. Any required over-depth, whether shown on the plans or not, will be considered to be incidental to the main installation and no additional compensation will be made therefore.

SP-31 PRE-INSTALLATION VIDEO: No construction shall take place prior to the City's acceptance of the Pre-Installation Video. The video shall thoroughly capture the intended work area as outlined in the Contract Documents. The Pre-Installation Video will be used to protect all parties involved in the project.

SP-32 PERIODIC CLEAN UP AND RESTORATION: During construction, the Contractor shall regularly remove from site and properly dispose of all accumulated debris and surplus material of any kind that result from their operations. The Contractor shall remove unsightly mounds of earth, large stones, boulders, and debris so the site presents a neat

appearance. Burial of construction debris is not permitted. Unused tools and equipment shall be stored at the Contractor's yard or base of operations for the project. When the contract work involves ROWs, private property, roadways, private driveways or access roads, easements and sidewalks, and any site work that may impede pedestrian or vehicular traffic while the installation work is in progress, the Contractor shall backfill, grade, compact, and otherwise restore the area to the basic condition which existed prior to work in order to allow vehicular and pedestrian use. All areas should be restored to their original design grade to facilitate drainage.

SP-33 CONNECTION TO EXISTING POTABLE WATER AND WASTEWATER FORCE MAIN(S): The connections to the existing potable water and wastewater force mains shall be paid at the contract bid price per each which shall include the cost of connection, satisfactory coordination of utility construction, labor, material, equipment and all other associated appurtenances required to complete the project in accordance with the Contract Documents. Tie-ins to existing main(s) shall be coordinated with City Utilities.

It shall be the express responsibility of the Contractor to connect his Work to each part of the existing work or of work previously installed as required by the Drawings and Specifications to provide a complete installation.

Connections/modifications to existing piping requires coordination with City Utilities staff. The Contractor shall not operate any existing valves.

SP-34 MAINTENANCE OF FLOW: It is the Contractor's responsibility to maintain the flow of the existing potable water, wastewater gravity flows, wastewater force mains, and lift stations during the construction. Acceptable methods for maintenance of flow are detailed further in the technical specifications. Maintenance of flow is considered incidental to the work and shall be done at no additional cost to the City.

SP-35 CITY RIGHT-OF-WAY RESTORATION: The ROW restoration includes all procedures to restore the ROW to a condition equal to or better than the original condition to the satisfaction of the City. The Contractor shall be responsible for restoration of items including but not limited to existing structures, stabilized roads, and ground areas damaged during construction.

During installation of new utilities, the Contractor shall maintain, an undisturbed existing buffer strip of ground cover measuring a minimum of one foot (1') in width from the edge-of- pavement (EOP) in order to minimize potential erosion along the pavement edge. The Contractor shall be responsible for all costs to restore this buffer strip if disturbed during construction.

SP-36 LABOR, MATERIALS AND EQUIPMENT: The Contractor will provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the site.

The Contractor will furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, local telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of the Work.

All materials and equipment will be new, except as otherwise provided in the Contract Documents. When special makes or grades of material which are normally packaged by the supplier or manufacturer are specified or approved, such materials shall be delivered to the site in their original packages or container with seals unbroken and labels intact.

All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in

accordance with the instructions of the applicable manufacturer, fabricator or processors, except as otherwise provided in the Contract Documents.

SP-37 MATERIALS, EQUIPMENT, PRODUCTS, AND SUBSTITUTIONS: Materials, equipment and products incorporated in the Work must be approved for use before being purchased by the Contractor. The Contractor shall submit to the City a list of proposed materials, equipment or products, together with such samples as may be necessary of him to determine their acceptability and obtain his approval. No request for payment for "or equal" equipment will be approved until this list has been received and approved by the City.

Whenever a material, article or piece of equipment is identified on the Drawings or Specifications by reference to brand name or catalog number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered per 40 CFR 33.255(c) as referenced in Chapter 62-552, FAC. The Contractor may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the Contract Documents be reference to brand name or catalog number, and if, in the opinion of the City, such material, article, or piece of equipment is of equal substance and function to that specified, the City may approve its substitution and use by the Contractor. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a change in the Contract Price or Contract Time.

No substitute shall be ordered or installed without the written approval of the City who shall be the judge of equality. Delay caused by obtaining approvals for substitute materials will not be considered justifiable grounds for an extension of construction time.

Should any work or materials, equipment or products not conform with requirements of the Drawings and Specifications or become damaged during the progress of the Work, such Work or materials shall be removed and replaced, together with any work disarranged by such alteration, at any time before completion and acceptance of the Project. All such work shall be done at the expense of the Contractor.

No materials or supplies for the Work shall be purchased by the Contractor or by any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the Seller. The Contractor warrants that he has good title to all materials and supplies used by him in the Work.

SP-38 USE OF PREMISES: The Contractor shall confine his apparatus, storage of materials, and operations of his workmen to limits indicated by law, ordinances, permits, and directions of City, and shall not unnecessarily encumber any part of the site.

Contractor shall not overload or permit any part of any structure to be loaded with such weight as will endanger its safety, nor shall he subject any part of the Work to stresses or pressures that will endanger it.

Contractor shall enforce City's instructions in connection with signs, advertisements, fires and smoking.

Contractor shall arrange and cooperate with City in routing and parking of automobiles of his employees, Subcontractors and other personnel, and in routing material delivery truck and other vehicles to the Project site.

SP-39 SURVEY: All survey monuments and benchmarks that may be disturbed during construction shall be referenced and replaced by the Contractor. All monuments and benchmarks disturbed or destroyed by the Contractor or any of his forces through accident or negligence shall be replaced by a Florida Licensed Professional Land Surveyor at the Contractor's expense.

SP-40 MANUFACTURER'S LITERATURE: Manufacturer's literature, when referenced, shall be dated and numbered and is intended to establish the minimum requirements acceptable. Whenever reference is given to codes, or standard specifications or other data published by regulating agencies or accepted organizations, including but not limited to National Electrical Code, applicable State Building Code, Federal Specifications, ASTM Specifications, various institute specifications, and the like, it shall be understood that such reference is to the latest edition including addenda in effect on the date of Bid.

SP-41 BRAND NAMES: Brand names where used in the technical specifications, are intended to denote the standard of quality and performance required of the particular material or product. The term "equal" or "equivalent", when used in connection with brand names, shall be interpreted to mean a material or product that is similar and equal in type, quality, size, capacity, composition, finish, color and other applicable characteristics to the material or product specified by trade name, and that is suitable for the same use and capable of performing the same function, in the opinion of the City's Engineer of Record, as the material or product so specified. The City's Engineer of Record must approve proposed equal items before they are purchased or incorporated in the Work.

SP-42 RECORD DRAWINGS: The Contractor will keep one record copy of all Specifications, Drawings, Addenda, Modifications, and Shop Drawings at the site in good order and annotated to show all changes made during the construction process. Record Drawings shall list all equipment removed from existing facilities. These shall be available to the City, City's Representative, City's Engineer of Record, and to the State of Florida Department of Environmental Protection (FDEP) and shall be delivered by him to the City upon completion of the Project. It shall be used for this purpose only. Final payment will not be made until receipt and approval by the City of Record Drawings.

SP-43 RECORD DRAWINGS CERTIFICATION: The certification statement shall be as follows:

"I hereby certify that the as-built location information of the water and wastewater facilities shown on these drawings conforms to the Minimum Technical Standards for Land Surveying in the State of Florida, chapter 5J-17.052 (Florida Administrative Code), as adopted by the Department of Agriculture and Consumer Services, Division of Consumer Services, Board of Professional Surveyors and Mappers in 2010, and that said as-builts are true and correct to the best of my knowledge and belief as surveyed under my direction."

SP-44 COMPLETION OF THE PROJECT: The Completion of the project shall be accomplished and finalized prior to submittal of the application for final payment by the Contractor. The City shall determine the date of completion for the project when at the minimum, the following are met as well as all other conditions defined in the Contract Documents:

- All punch list items have been addressed to the satisfaction of the City;
- All testing has been completed and results are satisfactory (including but not limited to air test, hydrostatic (exfiltration) test, Pipe Pressure Test, Concrete, and Compaction Tests, etc.);
- Record Drawing requirements have been accepted and approved by the City and all other governmental agencies, if applicable;
- All associated equipment and facilities necessary for the reliable operation of the project are complete in accordance with contract requirements; and,
- All release of liens have been submitted and are satisfactory to the City, certifying that all payrolls, material bills, and other indebtedness incurred by the Contractor in connection with this project have been paid in full.

SP-45 STORED MATERIALS: Payment for stored materials will made in accordance with Section 3.2 of the General Provisions.

SP-46 PAYMENT ADJUSTMENT: The following will apply: This Contract will *not* provide for fuel or other payment adjustments due to increase in material costs during the life of the contract.

SP-47 TERMINOLOGY: Throughout the Contract Documents, references to City or Owner shall, where appropriate, refer to the City of North Port, a municipal corporation of the State of Florida. References to Utilities Department and North Port Utilities refer to the City of North Port's Utilities Department and are used interchangeably. References to Engineer or "Resident Project Representative" may, where appropriate, refer to either the City's Engineer of Record for the Project, which is CDM Smith, or to the City's Utilities Engineering Manager.

The terms General Conditions and General Provisions are used interchangeably in the Contract Documents. The terms Special Conditions and Special Provisions are used interchangeably in the Contract Documents.

The term "Contract Documents" is used interchangeably with "Agreement."

SP-48 WORK HOURS: The Contractor shall conduct work between 7 A.M. and 3:30 P.M. Monday through Friday, which is defined as regular work hours. The Contractor shall not conduct work on Saturdays, Sundays, legal holidays or holidays observed by the City. Work conducted outside of the regular work hours and days shall be permitted only with written permission from the City. Any additional cost incurred by North Port Utilities and/or the Engineer of Record for work outside these hours will be paid by the Contractor.

SP-49 NOTIFICATIONS OF 48 HOURS: Wherever the technical specifications or plans indicate a minimum of 48 hours' notice to Owner/City or Engineer, this special provision shall prevail dictating a minimum of three (3) business days' notice to Owner/City or Engineer.

SP-50 QUALIFICATIONS/REFERENCES: Contractor shall submit a minimum of four (4) recent (within the past five (5) years) references of projects of similar size and scope involving cleaning and CCTV, cured-in-place pipe liners, cured-in-place pipe liner spot repair, manhole rehabilitations and grouting or any combination of services being offered to the City. Each reference shall include a project description, project location, name and phone number of a contact person, total project amount, and completion date.

The City reserves the right to contact references. Bidder is referred to MINIMUM QUALIFICATIONS AND REFERENCE FORM included later herein. Please provide accurate telephone and e-mail address for contact person.

SP-51 LICENSE(S) REQUIREMENT: Certified General Contractor OR Certified Underground Utilities Contractor.

SP-52 CITY'S STATUS: The City shall examine and inspect the work to assure compliance with the requirements of these Contract Documents. The City shall determine the quality and acceptability of materials and workmanship relative to the requirements of the Plans and Technical Specifications. The City has the authority as follows:

1. To stop the work whenever such stoppage may be necessary to insure the proper execution of the Contract.
 2. To reject all work which does not conform to the Contract.
 3. To resolve questions which arise in the execution of the work.
 4. To stop work whenever materials or shop drawings have not been approved prior to placement.
- No additional time or compensation will be added to the Contract when stopping the work for the above listed reasons.

SP-53 CRITERIA FOR AWARD: The award of this bid shall be to the lowest responsive, responsible bidder in whole or in part whichever is determined to be in the best interest of the City, meeting the requirements of the specifications, grant requirements and provisions set forth herein. Other consideration(s) of award shall be references, and equipment list.

Any unfavorable references may be cause to deem bidder non-responsive.

The City reserves the right to reject the bid proposal of any bidder who has previously failed to perform properly, or on time, contracts of similar nature; or who is not in a position to satisfactorily perform the contract.

SP- 54 Procurement of Recovered Materials

(a) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—

competitively within a timeframe providing for compliance with the contract performance schedule;

meeting contract performance requirements; or at a reasonable price. Information about this requirement, along with the list of EPA-designated items, is available at EPA's Comprehensive Procurement Guidelines webpage: <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

(b) The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

END OF SECTION III

Section IV
Small Cities Community Development Block Grant Program Form SC-66
Supplemental Conditions for Construction Contracts

The supplemental conditions contained in this section are intended to cooperate with, to supplement, and to modify the general conditions and other specifications. In case of disagreement with any other section of this contract, the Supplemental Conditions shall govern.

1. Termination (Cause and Convenience)
2. Access to Records
3. Retention of Records
4. Remedies
5. Buy America Preference
6. Environmental Compliance (Clean Air Act and Federal Water Pollution Control Act)
7. Energy Efficiency
8. Conflict of Interest
9. Utilization of Minority- and Women-Owned Business Enterprises (M/WBEs)
10. Davis-Bacon Act
11. Contract Work Hours and Safety Standards Act
12. Health and Safety
13. E-Verify
14. Equal Opportunity Provisions

1. Termination (Cause and Convenience)

A. This contract may be terminated in whole or in part in writing by either party in the event of substantial failure by the other party to fulfill its obligations under this contract through no fault of the terminating party, provided that no termination may be affected unless the other party is given:

(1) not less than ten (10) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate; and

(2) an opportunity for consultation with the terminating party prior to termination.

B. This contract may be terminated in whole or in part in writing by the local government for its convenience, provided that the other party is afforded the same notice and consultation opportunity specified in I(a) above.

C. If termination for default is affected by the local government, an equitable adjustment in the price for this contract shall be made, but

(I) no amount shall be allowed for anticipated profit on unperformed services or other work, and

(2) any payment due to the contractor at the time of termination may be adjusted to cover any additional costs to the local government because of the contractor's default.

If termination for convenience is affected by the local government, the equitable adjustment shall include a reasonable profit for services or other work performed for which profit has not already been included in an invoice.

For any termination, the equitable adjustment shall provide for payment to the contractor for services rendered and expenses incurred prior to receipt of the notice of intent to terminate, in addition to termination settlement costs reasonably incurred by the contractor relating to commitments (e.g., suppliers, subcontractors) which had become firm prior to receipt of the notice of intent to terminate.

D. Upon receipt of a termination action under paragraphs (a) or (b) above, the contractor shall (1) promptly discontinue all affected work (unless the notice directs otherwise) and (2) deliver or otherwise make available to the local government all data, drawings, reports specifications,

summaries and other such information, as may have been accumulated by the contractor in performing this contract, whether completed or in progress.

E. Upon termination, the local government may take over the work and may award another party a contract to complete the work described in this contract.

F. If, after termination for failure of the contractor to fulfill contractual obligations, it is determined that the contractor had not failed to fulfill contractual obligations, the termination shall be deemed to have been for the convenience of the local government. In such event, adjustment of the contract price shall be made as provided in paragraph (c) above.

2. Access to Records

The Florida Department of Commerce, the Chief Financial Officer of the State of Florida, the Auditor General of the State of Florida, the Florida Office of Program Policy Analysis and Government Accountability, the U.S. Department of the Treasury, the Comptroller General of the United States, and any of their duly authorized representatives, shall have access to any books, documents, papers, and records, including electronic storage media, as they may relate this contract, for the purposes of conducting audits or examinations or making excerpts or transcriptions.

3. Retention of Records

The contractor shall retain all records relating to this contract for six years after the local government makes final payment and all other pending matters are closed.

4. Remedies

Unless otherwise provided in this contract, all claims, counter-claims, disputes and other matters in question between the local government and the contractor, arising out of or relating to this contract, or the breach of it, will be decided by arbitration, if the parties mutually agree, or in a Florida court of competent jurisdiction.

5. Buy America Preference

A. All iron and steel used in this project must be produced in the United States. This means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

B. All manufactured products used in this project must be produced in the United States. This means the manufactured product was manufactured in the United States, and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation.

C. All constructed materials used in this project must be manufactured in the United States. This means that all manufacturing processes for the construction material occurred in the United States.

D. The Buy America Preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project.

6. Environmental Compliance

If this contract exceeds \$150,000, the contractor shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the U.S. Department of the Treasury and the Atlanta Regional Office of the Environmental Protection Agency (EPA). The contractor shall include this clause in any subcontracts over \$150,000.

7. Energy Efficiency

The contractor shall comply with any mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Public Law 94-163).

8. Conflict of Interest

No officer or employee of the local jurisdiction or its designees or agents, no member of the governing body, and no other public official of the locality who exercises any function or responsibility with respect to this contract, during his/her tenure or for one year thereafter, shall have any interest, direct or indirect, in any contract or subcontract, or the proceeds thereof, for work to be performed. Further, the contractor shall incorporate the language set forth in this paragraph prohibiting conflict of interest in all subcontracts.

9. Utilization of Minority- and Women-Owned Business Enterprises (M/WBEs)

The contractor shall take all necessary affirmative steps to assure that M/WBE firms are utilized when possible as suppliers and/or subcontractors, as applicable. Prior to contract award, the contractor shall document efforts to utilize M/WBE firms, including identifying what firms were solicited as suppliers and/or subcontractors, as applicable. Information regarding certified M/WBE firms can be obtained from:

- Florida Department of Management Services, Office of Supplier Diversity,
- Florida Department of Transportation (construction services, particularly highway),
- Minority Business Development Center in most major cities, and
- Local government M/WBE programs in many large counties and cities.

A firm recognized as an M/WBE by any of the above agencies is acceptable for the CDBG program.

10. Davis-Bacon Act (Applicable to contracts/subcontracts \$2,000 or more)

1. Minimum Wages

(i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such

laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) (A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination, and which is to be employed under the contract shall be classified in

conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

1. The work to be performed by the classification requested is not performed by a classification in the wage determination.
2. The classification is utilized in the area by the construction industry.
3. The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably

anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account asset for the meeting of obligations under the plan or program.

2. Withholding

The Department of Commerce shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract

subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the Department of Commerce may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Department of Commerce if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Department of Commerce. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead, the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired.

Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the U.S. Department of the Treasury if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the Department of Commerce, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

a. That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete.

b. That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3.

c. That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the Department of Commerce or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees

(i) *Apprentices.* Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually

performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) *Trainees*. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be

permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) *Equal Employment Opportunity*. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

5. Compliance with Copeland Act requirements

The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts

The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the U.S. Department of the Treasury may by appropriate instructions

require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment

A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

11. Contract Work Hours and Safety Standards Act (Applicable to contracts/subcontracts \$100,000 or more)

1. Overtime requirements

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages

In the event of any violation of the clause set forth in paragraph (1.) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of

Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$31 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages

The Department of Commerce shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

12. Health and Safety

(1) No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 (formerly part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54.83 State 96).

(3) The contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontract as the Secretary of the Treasury or the Secretary of Labor shall direct as a means of enforcing such provisions.

13. E-Verify

A. Section 448.095, Florida Statutes, requires the following:

1. Every public agency and its contractors and subcontractors shall register with and use the E-Verify system to verify the work authorization status of all newly hired employees. A public agency or a contractor or subcontractor thereof may not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

2. An employer shall verify each new employee's employment eligibility within three (3) business days after the first day that the new employee begins working for pay as required

under 8 CFR 274a. Beginning July 1, 2023, a private employer with 25 or more employees shall use the E-Verify system to verify a new employee's employment eligibility.

B. E-Verify is an Internet-based system that allows an employer, using information reported on an employee's Form I-9, Employment Eligibility Verification, to determine the eligibility of all new employees hired to work in the United States. There is no charge to employers to use E-Verify. The Department of Homeland Security's E-Verify system can be found at:

<https://www.e-verify.gov/>.

C. If the contractor does not use E-Verify, the contractor shall enroll in the E-Verify system prior to hiring any new employee or retaining any contract employee after the effective date of this contract.

14. Equal Opportunity Provisions

A. Standard Federal Equal Employment Opportunity Construction Contract Specifications (Applicable to contracts/subcontracts above \$10,000)

1. As used in these specifications:

(a). "Covered area" means the geographical area described in the solicitation from which this contract resulted.

(b). "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.

(c). "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

(d). "Minority" includes:

(i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin).

(ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race).

(iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands).

(iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these

specifications and the Notice which contains the applicable goals for minority and female participation, and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions

of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 (a) through (p) of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the *Federal Register* in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

(a). Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

(b). Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

(c). Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and

was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

(d). Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

(e). Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7(b) above.

(f). Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

(g). Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

(h). Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

(i). Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

(j). Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

(k). Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.

(l). Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

(m). Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

(n). Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

(o). Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

(p). Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, or national origin.

11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

B. Contracts Not Subject to Executive Order 11246, as Amended (Applicable to contracts/subcontracts \$10,000 and under)

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

(2) The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

(3) Contractors shall incorporate foregoing requirements in all subcontracts.

C. Equal Opportunity Clause (Applicable to contracts/subcontracts above \$10,000)

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in

conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided*, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

D. Civil Rights Act of 1964

Under Title VI of the Civil Rights Act of 1964, no person shall, on the grounds of race, color, religion, sex, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

E. Age Discrimination in Employment Act of 1967, as Amended

It shall be unlawful for an employer-

(1) To fail or refuse to hire or to discharge any individual or otherwise discriminate against any individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's age.

(2) To limit, segregate, or classify his employees in any way which would deprive or tend to deprive any individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's age.

(3) To reduce the wage rate of any employee in order to comply with this section.

F. Title II of the Genetic Information Nondiscrimination Act of 2008

(1) Under Title II of the Genetic Information Nondiscrimination Act (GINA), it is illegal to discriminate against employees or applicants because of genetic information. Employers are prohibited from using genetic information in making employment decisions. GINA restricts employers and other entities covered by Title II (employment agencies, labor organizations and joint labor-management training and apprenticeship programs - referred to as "covered entities") from requesting, requiring or purchasing genetic information, and strictly limits the disclosure of genetic information.

The law forbids discrimination on the basis of genetic information when it comes to any aspect of employment, including hiring, firing, pay, job assignments, promotions, layoffs, training, fringe benefits, or any other term or condition of employment.

(2) "Genetic information" includes information about an individual's genetic tests and the genetic tests of an individual's family members, as well as information about the manifestation of a disease or disorder in an individual's family members (i.e. family medical history). Family medical history is included in the definition of genetic information because it is often used to determine whether someone has an increased risk of getting a disease, disorder, or condition in the future.

G. Section 3 of the Housing and Urban Development Act of 1968

(1) The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3), contributes to the establishment of stronger, more sustainable communities by ensuring that employment and other economic opportunities generated by Federal financial assistance for housing and community development programs are, to the greatest extent feasible, directed toward low- and very low-income persons, particularly those who receive Federal financial assistance for housing and those residing in communities where the financial assistance is expended.

(2) The parties to this contract agree to comply with HUD's regulations in 24 CFR part 75, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 75 regulations.

(3) The contractor agrees to send to each labor organization or representative or workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's

commitments under this Section 3 clause and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

(4) The Contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 75, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 75. The Contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 75.

(5) The Contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the Contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 75 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 75.

(6) Noncompliance with HUD's regulations in 24 CFR part 75 may result in sanctions, termination of this Contract for default, and debarment or suspension from future HUD assisted contracts. End of Special Provisions

END OF SECTION IV

SECTION V: PREVAILING WAGE RATES

"General Decision Number: FL20250133 12/05/2025

Superseded General Decision Number: FL20240133

State: Florida

Construction Type: Heavy

County: Sarasota County in Florida.

HEAVY CONSTRUCTION PROJECTS (Including Sewer and Water Lines)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022: | Executive Order 14026 | generally applies to the | contract. |
The contractor must pay | all covered workers at | least \$17.75 per hour (or | the applicable wage rate | listed on this wage | determination, if it is | higher) for all hours | spent performing on the | contract in 2025. |

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022: | Executive Order 13658 | generally applies to the | contract. |
The contractor must pay all | covered workers at least | \$13.30 per hour (or the | applicable wage rate listed | on this wage determination, |

	if it is higher) for all
	hours spent performing on
	that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	12/05/2025

ELEC0915-003 12/01/2025

	Rates	Fringes
ELECTRICIAN.....	\$ 36.23	15.93

ENGI0487-034 06/01/2023		

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1		
150 ton lattice, 250 ton hydro, friction, tower and luffing cranes, 300+ ft boom.....	\$ 39.01	16.85
Group 2		
Lattice under 150 ton, 100 ton up to 250 ton hydro cranes.....	\$ 38.01	16.85
Group 3		
Cranes not described above, Drill Rig, Horizontal Directional		

Drill Operator,
Horizontal Direction
Drill Locator.....\$ 37.01 16.85

Journeyman Oiler shall be paid: 90% of Group 3's rate.

IRON0397-006 07/01/2024

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 35.25 17.32

LABO0517-002 05/01/2023

Rates Fringes

LABORER: Grade Checker.....\$ 22.61 11.59

PAIN0088-008 06/01/2021

Rates Fringes

PAINTER: Brush, Roller and
Spray.....\$ 20.21 12.38

SUFL2009-172 06/24/2009

Rates Fringes

CARPENTER.....\$ 14.95 ** 2.92

CEMENT MASON/CONCRETE FINISHER...\$ 14.77 ** 3.50

LABORER: Common or General.....\$ 9.50 ** 1.69

LABORER: Landscape.....\$ 7.25 ** 0.00

LABORER: Pipelayer.....\$ 13.75 ** 2.06

LABORER: Power Tool Operator
(Hand Held Drills/Saws,
Jackhammer and Power Saws
Only).....\$ 10.63 ** 2.20

OPERATOR: Asphalt Paver.....\$ 11.59 ** 0.00

OPERATOR: Backhoe Loader Combo.....	\$ 16.10 **	2.44
OPERATOR: Backhoe/Excavator.....	\$ 15.00 **	0.52
OPERATOR: Bulldozer.....	\$ 17.00 **	0.00
OPERATOR: Grader/Blade.....	\$ 16.00 **	2.84
OPERATOR: Loader.....	\$ 14.75 **	0.00
OPERATOR: Mechanic.....	\$ 14.32 **	0.00
OPERATOR: Roller.....	\$ 10.76 **	0.00
OPERATOR: Scraper.....	\$ 11.00 **	1.74
OPERATOR: Trackhoe.....	\$ 20.92	5.50
OPERATOR: Tractor.....	\$ 10.54 **	0.00
TRUCK DRIVER, Includes Dump Truck.....	\$ 11.00 **	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 12.73 **	0.00
TRUCK DRIVER: Off the Road Truck.....	\$ 12.21 **	1.97

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher
minimum wage under Executive Order 14026 (\$17.75) or 13658
(\$13.30). Please see the Note at the top of the wage
determination for more information. Please also note that the
minimum wage requirements of Executive Order 14026 are not
currently being enforced as to any contract or subcontract to
which the states of Texas, Louisiana, or Mississippi, including
their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council

number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as

conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

End of Prevailing Wage Rates

END OF SECTION V

Section VI

HUD-4010 U.S. Department of Housing and Urban Development Federal Labor Standards Provisions Office of Davis-Bacon and Labor Standards

A. APPLICABILITY

The Project or Program to which the construction work covered by this Contract pertains is being assisted by the United States of America, and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

1. Minimum wages and fringe benefits

i. All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in 29 CFR 5.5(d) and (e), the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(v) of these contract clauses; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under 29 CFR 5.5(a)(1)(iii)) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

ii. Frequently recurring classifications

A. In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to 29 CFR 5.5(a)(1)(iii), provided that:

1. The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;
2. The classification is used in the area by the construction industry; and
3. The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

B. The Administrator will establish wage rates for such classifications in accordance with 29 CFR 5.5(a)(1)(iii)(A)(3). Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

iii. Conformance

A. The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be

classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

1. The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 2. The classification is used in the area by the construction industry; and
 3. The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- B.** The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.
- C.** If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- D.** In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- E.** The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under 29 CFR 5.5 (a)(1)(iii)(C) and (D). The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to 29 CFR 5.5 (a)(1)(iii)(C) or (D) must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

iv. Fringe benefits not expressed as an hourly rate

Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

v. Unfunded plans

If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in 29 CFR 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

vi. Interest In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding

i. Withholding requirements

The U. S. Department of Housing and Urban Development may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in 29 CFR 5.5(a) for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in 29 CFR 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work (or otherwise working in construction or development of the project under a development statute) all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in 29 CFR 5.5(a)(3)(iv), HUD may on its own initiative and after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

ii. Priority to withheld funds

The Department has priority to funds withheld or to be withheld in accordance with 29 CFR 5.5(a)(2)(i) or (b)(3)(i), or both, over claims to those funds by:

- A.** A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- B.** A contracting agency for its procurement costs;
- C.** A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- D.** A contractor's assignee(s);
- E.** A contractor's successor(s); or
- F.** A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901-3907.

3. Records and certified payrolls

i. Basic record requirements

A. Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

B. Information required Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

C. Additional records relating to fringe benefits. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(v) that the wages of any laborer or mechanic include the amount of any

costs reasonably anticipated in providing benefits under a plan or program described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

D. Additional records relating to apprenticeship Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

ii. Certified payroll requirements

A. Frequency and method of submission The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to HUD if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the certified payrolls to the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records, for transmission to HUD. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system

B. Information required The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i)(B), except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.*, the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the sponsoring government agency (or the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records).

C. Statement of Compliance Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

1. That the certified payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information and basic records are being maintained under 29 CFR 5.5 (a)(3)(i), and such information and records are correct and complete;
2. That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly

from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3; and

3. That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

D. Use of Optional Form WH-347 The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the “Statement of Compliance” required by 29 CFR 5.5(a)(3)(ii)(C).

E. Signature The signature by the contractor, subcontractor, or the contractor’s or subcontractor’s agent must be an original handwritten signature or a legally valid electronic signature.

F. Falsification The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 3729.

G. Length of certified payroll retention The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

iii. Contracts, subcontracts, and related documents The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

iv Required disclosures and access

A. Required record disclosures and access to workers The contractor or subcontractor must make the records required under 29 CFR 5.5(a)(3)(i)–(iii), and any other documents that HUD or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by 29 CFR 5.1, available for inspection, copying, or transcription by authorized representatives of HUD or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

B. Sanctions for non-compliance with records and worker access requirements If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to 29 CFR 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

C. Required information disclosures Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to HUD if the agency is a party to

the contract, or to the Wage and Hour Division of the Department of Labor. If the Federal agency is not such a party to the contract, the contractor, subcontractor, or both, must, upon request, provide the full Social Security number and last known address, telephone number, and email address of each covered worker to the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records, for transmission to HUD, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity

i. Apprentices

A. Rate of pay Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

B. Fringe benefits Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

C. Apprenticeship ratio The allowable ratio of apprentices to journeymen on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to 29 CFR 5.5(a)(4)(i)(D). Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in 29 CFR 5.5(a)(4)(i)(A), must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

D. Reciprocity of ratios and wage rates Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

ii Equal employment opportunity The use of apprentices and journeymen under this part must be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

5 Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6 Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (11), along with the applicable wage determination(s) and such other clauses or contract modifications as the U.S. Department of Housing and Urban Development may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate.

7 Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8 Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9 Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

- i. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of 40 U.S.C. 3144(b) or 29 CFR 5.12(a).
- ii. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or 29 CFR 5.12(a).
- iii. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.

11 Anti-retaliation It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- i. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, or 29 CFR parts 1, 3, or 5;
- ii. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, or 29 CFR parts 1, 3, or 5;
- iii. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, or 29 CFR parts 1, 3, or 5; or
- iv. Informing any other person about their rights under the DBA, Related Acts, or 29 CFR parts 1, 3, or 5.

B. Contract Work Hours and Safety Standards Act (CWHSSA)

The Agency Head must cause or require the contracting officer to insert the following clauses set forth in 29 CFR 5.5(b)(1), (2), (3), (4), and (5) in full, or (for contracts covered by the Federal Acquisition Regulation) by reference, in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses must

be inserted in addition to the clauses required by 29 CFR 5.5(a) or 4.6. As used in this paragraph, the terms “laborers and mechanics” include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in 29 CFR 5.5(b)(1) the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchpersons and guards, employed in violation of the clause set forth in 29 CFR 5.5(b)(1), in the sum of \$31 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in 29 CFR 5.5(b)(1).

3. Withholding for unpaid wages and liquidated damages

i. Withholding process The U.S Department of Housing and Urban Development or the recipient of Federal assistance may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in 29 CFR 5.5(b) on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in 29 CFR 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

ii Priority to withheld funds The Department has priority to funds withheld or to be withheld in accordance with 29 CFR 5.5(a)(2)(i) or (b)(3)(i), or both, over claims to those funds by:

- A.** A contractor’s surety(ies), including without limitation performance bond sureties and payment bond sureties;
- B.** A contracting agency for its procurement costs;
- C.** A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor’s bankruptcy estate;
- D.** A contractor’s assignee(s);
- E.** A contractor’s successor(s); or
- F.** A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901-3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in 29 CFR 5.5(b)(1) through (5) and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in 29 CFR 5.5(b)(1) through (5). In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss,

due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5 Anti-retaliation It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- i. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in 29 CFR part 5;
- ii. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or 29 CFR part 5;
- iii. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or 29 CFR part 5; or
- iv. Informing any other person about their rights under CWHSSA or 29 CFR part 5.

C. CWHSSA required records clause In addition to the clauses contained in 29 CFR 5.5(b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other laws referenced by 29 CFR 5.1, the Agency Head must cause or require the contracting officer to insert a clause requiring that the contractor or subcontractor must maintain regular payrolls and other basic records during the course of the work and must preserve them for a period of 3 years after all the work on the prime contract is completed for all laborers and mechanics, including guards and watchpersons, working on the contract. Such records must contain the name; last known address, telephone number, and email address; and social security number of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid; daily and weekly number of hours actually worked; deductions made and actual wages paid. Further, the Agency Head must cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph must be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview workers during working hours on the job.

D. Incorporation of contract clauses and wage determinations by reference Although agencies are required to insert the contract clauses set forth in this section, along with appropriate wage determinations, in full into covered contracts, and contractors and subcontractors are required to insert them in any lower-tier subcontracts, the incorporation by reference of the required contract clauses and appropriate wage determinations will be given the same force and effect as if they were inserted in full text.

E. Incorporation by operation of law The contract clauses set forth in this section (or their equivalent under the Federal Acquisition Regulation), along with the correct wage determinations, will be considered to be a part of every prime contract required by the applicable statutes referenced by 29 CFR 5.1 to include such clauses, and will be effective by operation of law, whether or not they are included or incorporated by reference into such contract, unless the Administrator grants a variance, tolerance, or exemption from the application of this paragraph. Where the clauses and applicable wage determinations are effective by operation of law under this paragraph, the prime contractor must be compensated for any resulting increase in wages in accordance with applicable law.

F. HEALTH AND SAFETY

The provisions of this paragraph (F) are applicable where the amount of the prime contract exceeds **\$100,000**.

1. No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his or her health and safety, as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

2. The contractor shall comply with all regulations issued by the Secretary of Labor pursuant to 29 CFR Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96), 40 U.S.C. § 3701 et seq.

3. The contractor shall include the provisions of this paragraph in every subcontract, so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

END OF SECTION VI

SECTION VII

Appendix II to Part 200

Appendix II to Part 200—Contract Provisions for Non-Federal Entity Contracts Under Federal Awards

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

I Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

I Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201).

(I) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide Excluded Parties List System in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1986 Comp., p. 189) and 12689 (3 CFR Part 1989 Comp., p. 235), “Debarment and Suspension.” The Excluded Parties List System in SAM contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(J) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award of \$100,000 or more must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

(K) See § 200.322 Procurement of recovered materials.

END OF SECTION VII

SECTION VIII

60-300.5 EQUAL OPPORTUNITY CLAUSE EQUAL OPPORTUNITY FOR VEVRAA PROTECTED VETERANS

1. The contractor will not discriminate against any employee or applicant for employment because he or she is a disabled veteran, recently separated veteran, active duty wartime or campaign badge veteran, or Armed Forces service medal veteran (hereinafter collectively referred to as “protected veteran(s)”) in regard to any position for which the employee or applicant for employment is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified individuals without discrimination based on their status as a protected veteran in all employment practices, including the following:

- i. Recruitment, advertising, and job application procedures.
- ii. Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff and rehiring.
- iii. Rates of pay or any other form of compensation and changes in compensation.
- iv. Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists.
- v. Leaves of absence, sick leave, or any other leave.
- vi. Fringe benefits available by virtue of employment, whether or not administered by the contractor.
- vii. Selection and financial support for training, including apprenticeship, and on-the-job training under [38 U.S.C. 3687](#), professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training.
- viii. Activities sponsored by the contractor including social or recreational programs.
- ix. Any other term, condition, or privilege of employment.

2. The contractor agrees to immediately list all employment openings which exist at the time of the execution of this contract and those which occur during the performance of this contract, including those not generated by this contract and including those occurring at an establishment of the contractor other than the one where the contract is being performed, but excluding those of independently operated corporate affiliates, with the appropriate employment service delivery system where the opening occurs. Listing employment openings with the state workforce agency job bank or with the local employment service delivery system where the opening occurs will satisfy the requirement to list jobs with the appropriate employment service delivery system. In order to satisfy the listing requirement described herein, contractors must provide information about the job vacancy in any manner and format permitted by the appropriate employment service delivery system which will allow that system to provide priority referral of veterans protected by VEVRAA for that job vacancy. Providing information on employment openings to a privately run job service or exchange will satisfy the contractor's listing obligation if the privately run job service or exchange provides the information to the

appropriate employment service delivery system in any manner and format that the employment service delivery system permits which will allow that system to provide priority referral of protected veterans.

3. Listing of employment openings with the appropriate employment service delivery system pursuant to this clause shall be made at least concurrently with the use of any other recruitment source or effort and shall involve the normal obligations which attach to the placing of a *bona fide* job order, including the acceptance of referrals of veterans and nonveterans. The listing of employment openings does not require the hiring of any particular job applicants or from any particular group of job applicants, and nothing herein is intended to relieve the contractor from any requirements in Executive orders or regulations regarding nondiscrimination in employment.

4. Whenever a contractor, other than a state or local governmental contractor, becomes contractually bound to the listing provisions in paragraphs 2 and 3 of this clause, it shall advise the employment service delivery system in each state where it has establishments that: (a) It is a Federal contractor, so that the employment service delivery systems are able to identify them as such; and (b) it desires priority referrals from the state of protected veterans for job openings at all locations within the state. The contractor shall also provide to the employment service delivery system the name and location of each hiring location within the state and the contact information for the contractor official responsible for hiring at each location. The "contractor official" may be a chief hiring official, a Human Resources contact, a senior management contact, or any other manager for the contractor that can verify the information set forth in the job listing and receive priority referrals from employment service delivery systems. In the event that the contractor uses any external job search organizations to assist in its hiring, the contractor shall also provide to the employment service delivery system the contact information for the job search organization(s). The disclosures required by this paragraph shall be made simultaneously with the contractor's first job listing at each employment service delivery system location after the effective date of this final rule. Should any of the information in the disclosures change since it was last reported to the employment service delivery system location, the contractor shall provide updated information simultaneously with its next job listing. As long as the contractor is contractually bound to these provisions and has so advised the employment service delivery system, there is no need to advise the employment service delivery system of subsequent contracts. The contractor may advise the employment service delivery system when it is no longer bound by this contract clause.

5. The provisions of paragraphs 2 and 3 of this clause do not apply to the listing of employment openings which occur and are filled outside of the 50 states, the District of Columbia, the Commonwealth of Puerto Rico, Guam, the Virgin Islands, American Samoa, the Commonwealth of the Northern Mariana Islands, Wake Island, and the Trust Territories of the Pacific Islands.

6. As used in this clause: i. *All employment openings* includes all positions except executive and senior management, those positions that will be filled from within the contractor's organization, and positions lasting three days or less. This term includes full-time employment, temporary employment of more than three days' duration, and part-time employment.

ii. *Executive and senior management* means: (1) Any employee (a) compensated on a salary basis at a rate of not less than \$455 per week (or \$380 per week, if employed in American Samoa by employers other than the Federal Government), exclusive of board, lodging or other facilities; (b) whose primary duty is management of the enterprise in which the employee is employed or of a customarily recognized department or subdivision thereof; (c) who customarily and regularly directs the work of two or more other employees; and (d) who has the authority to hire or fire other employees or whose suggestions and recommendations as to the hiring, firing,

advancement, promotion or any other change of status of other employees are given particular weight; or (2) any employee who owns at least a bona fide 20-percent equity interest in the enterprise in which the employee is employed, regardless of whether the business is a corporate or other type of organization, and who is actively engaged in its management.

iii. *Positions that will be filled from within the contractor's organization* means employment openings for which no consideration will be given to persons outside the contractor's organization (including any affiliates, subsidiaries, and parent companies) and includes any openings which the contractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of his or her own organization.

7. The contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.

8. In the event of the contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.

9. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, Office of Federal Contract Compliance Programs, provided by or through the contracting officer. Such notices shall state the rights of applicants and employees as well as the contractor's obligation under the law to take affirmative action to employ and advance in employment qualified employees and applicants who are protected veterans. The contractor must ensure that applicants or employees who are disabled veterans are provided the notice in a form that is accessible and understandable to the disabled veteran (e.g., providing Braille or large print versions of the notice, posting the notice for visual accessibility to persons in wheelchairs, providing the notice electronically or on computer disc, or other versions). With respect to employees who do not work at a physical location of the contractor, a contractor will satisfy its posting obligations by posting such notices in an electronic format, provided that the contractor provides computers that can access the electronic posting to such employees, or the contractor has actual knowledge that such employees otherwise are able to access the electronically posted notices. Electronic notices for employees must be posted in a conspicuous location and format on the company's intranet or sent by electronic mail to employees. An electronic posting must be used by the contractor to notify job applicants of their rights if the contractor utilizes an electronic application process. Such electronic applicant notice must be conspicuously stored with, or as part of, the electronic application.

10. The contractor will notify each labor organization or representative of workers with which it has a collective bargaining agreement or other contract understanding that the contractor is bound by the terms of VEVRAA, and is committed to take affirmative action to employ and advance in employment, and shall not discriminate against, protected veterans.

11. The contractor will include the provisions of this clause in every subcontract or purchase order of \$100,000 or more, unless exempted by the rules, regulations, or orders of the Secretary issued pursuant to VEVRAA so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Director, Office of Federal Contract Compliance Programs, may direct to enforce such provisions, including action for noncompliance.

12. The contractor must, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to their protected veteran status.

^[3] The definitions set forth in [41 CFR 60-300.2](#) apply to the terms used throughout this Clause, and they are incorporated herein by reference.

SECTION IX

CITY FORMS

EXECUTE, NOTARIZE AND RETURN WITH SUBMITTAL

ATTACHMENT A- BIDDER CHECKLIST

BIDDER: submit one (1) original hard copy labeled "ORIGINAL", one labeled "COPY", and a digital version on a USB flash drive. The bid schedule should be in excel format, while all other documents should be in PDF format.

ATTACHMENTS: A THROUGH I

- ☒ **ATTACHMENT A:** Bidder checklist
- ☒ **ATTACHMENT B:** Sealed Bid Label (if not using the provided label on the next page, please make sure all information is provided on envelope as label).
- ☒ **ATTACHMENT C:** Bid Schedule (Excel format, separate document) – DO NOT RECREATE SPREADSHEET
 - Must complete the entire schedule, print original, copy, and save on USB drive in excel format.
- ☒ **ATTACHMENT D:** Bid Form
- ☒ **ATTACHMENT E:** Statement of Organization
- ☒ **ATTACHMENT F:** Addenda Acknowledgement and Bid Bond Terms
- ☒ **ATTACHMENT G:** City Bid Bond Form (DO NOT RECREATE AND ONLY USE THIS FORM)
- ☒ **ATTACHMENT H:** Equipment and Source of Supply/Subcontractor List
- ☒ **ATTACHMENT I:** Qualifications and Experience Form

ATTACHMENTS: 1.1, 2.2 AND 5 THROUGH 14

- ☒ **ATTACHMENT 1.1:** Insurance – Bidder to acknowledge by initialing the bottom of page.
- ☒ **ATTACHMENT 2.2:** Construction Indemnification
- ☒ **ATTACHMENT 5:** Certification Regarding Lobbying
- ☒ **ATTACHMENT 6:** Non-Collusive Affidavit
- ☒ **ATTACHMENT 7:** Conflict of Interest Form
- ☒ **ATTACHMENT 8:** Public Entity Crime Information Form
- ☒ **ATTACHMENT 9:** Drug-Free Workplace Form
- ☒ **ATTACHMENT 10:** The Florida trench Safety Act
- ☒ **ATTACHMENT 11:** Scrutinized company Certification Form
- ☒ **ATTACHMENT 12:** Vendor's Certification For E-Verify System
- ☒ **ATTACHMENT 13:** Human Trafficking Affidavit
- ☒ **ATTACHMENT 14:** Affidavit of Compliance Foreign Entity
- ☒ **ATTACHMENT 15:** Certification by Bidder – Executive Order 11246

☒ **ATTACHMENT 16:** Certification Regarding Debarment, Suspension, and Other Responsibility Matters Primary Covered Transactions

☒ **ATTACHMENT 17:** Certifications and Representations

☒ **ATTACHMENT 18:** Acknowledgement of Terms, Conditions, And Grant Clauses

☒ **ATTACHMENT 19:** Federal Non Collusion

☒ **ATTACHMENT 20:** Federal Funding Accountability and Transparency Act

☒ **ATTACHMENT 21:** Executive Compensation Form

☒ **ATTACHMENT 22:** Contract Changes

☒ **ATTACHMENT 23:** Sanctions and Penalties

☒ **ATTACHMENT 24:** Performance and Payment Bond Terms - Bidder to acknowledge by initialing the bottom of page.

☒ **ATTACHMENT 25:** Payment and Performance Bond Form – AWARDED VENDOR MUST USE THIS FORM. DO NOT NEED TO SUBMIT WITH BID. ***THIS PAGE MUST BE COMPLETED AND SUBMITTED***

THIS PAGE MUST BE COMPLETED AND SUBMITTED

ATTACHMENT B

SEALED RFB ENVELOPE LABEL

PLEASE NOTE: Courier Packages (Fedex, UPS, etc.) shall be clearly marked.

If not using label provided below, please include the following on the outside envelope: COMPANY NAME, RFB #, RFB TITLE, DATE DUE, TIME DUE, SUBMITTED BY, NAME OF COMPANY, E-MAIL ADDRESS, TELEPHONE.

PLEASE PRINT CLEARLY

Cut along the outer border and affix this label to your sealed solicitation envelope to identify it as a "Sealed RFB".	
SEALED RFB DOCUMENTS - DO NOT OPEN	
RFB #: 2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION	
DATE DUE: 12/17/2025	
TIME DUE: 2:00 PM	
SUBMITTED BY: Inliner Solutions, LLC	
(Name of Company)	
chris.currie@puriscorp.com	407-421-5283
e-mail address	Telephone
Deliver to:	
City of North Port	
Finance Department - Purchasing Division	
Keith Raney, Senior Contract Administrator	
4970 City Hall, 3 RD Floor, Suite 337	
North Port, Florida 34286	
2025-XX INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION	

Note: Submissions received after the time and date stated on the Notice of Availability will not be accepted.

ATTACHMENT 1:

BID SCHEDULE IN EXCEL FORMAT

SEPARATE ATTACHMENT

- DO NOT RECREATE
- SUBMIT AN (1) ORIGINAL AND (1) HARD COPY
- DO NOT PDF EXCEL SPREADSHEET SAVE IN EXCEL FORMAT ON USB DRIVE

It is understood that the estimated summary of pay item quantities are approximate only and are solely for the purpose of facilitating the comparison of bids, and that the Contractor's compensation shall be computed upon the basis of the actual quantities in the completed work, whether they be more or less than those shown.

Preparation of Bid Schedules: Contractor MUST use the City provided excel spreadsheet. DO NOT RECREATE FORM. All GREEN spaces in the Bid Form to be filled. *Bidder should not reference the words "No Charge, N/A, included, dash, etc." in any of the spaces. Bidder must identify a monetary amount for each UNIT COST (unless the unit price is "x" out by the City). UNIT COST prevails over EXTENDED COST. Failure to identify a monetary amount in any of the UNIT COST line items shall cause Bidder to be deemed non-responsive and bid response be rejected.* In case of discrepancy between unit price and extended price, the unit price will govern. Apparent errors in extension will be corrected.

RFB 2025-43 Inflow and Infiltration (Florida Department of Economic Opportunity's Rebuild Florida linfrastructure Repair Program)					
Bid Schedule					
No.	Description	Quantity (2)	Unit	Unit Cost	Item Cost
REHABILITATION (1)					
	CURED-IN-PLACE LINER				
1	Cured in Place Liner - 8" Dia. (6 mm thick)	3937	LF	44	173,228
2	Cured in Place Liner - 10" Dia. (6 mm thick)	3249	LF	46	149,454
3	Reinstate Service Lateral Connection	101	EA	50	5,050
4	Sealing Service Lateral Connection via Chemical Grouting	101	EA	400	40,400
				GRAND TOTAL:	368,132

Note 1 Rehabilitation unit costs include all work to construct, test and inspect (including but not limited to maintenance of traffic, taking samples and having them tested at a lab, cleaning/preparing pipe and manholes, pre and post rehabilitation CCTV, and bypass pumping).

Note 2 Quantities shown are estimated to establish unit pricing for each specific item and give a general scope of the project. Final project quantities may be increased or decreased based on actual quantities and/or budget dollars available.

Date: 12/16/2025

Authorized to Bind Company
Name (printed) Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

ATTACHMENT D:

BID FORM

Company Name: Inliner Solutions, LLC

Business Address: 2531 Jewett Lane, Sanford, FL 32771

To the City Commission of the City of North Port pursuant to and in compliance with your notice inviting sealed bids (Invitation to Bid), Instructions to Bidders, and the other documents relating thereto, the undersigned Bidder, having familiarized himself/herself with the terms of the Contract documents, local conditions affecting the performance of the Contract, and the cost of the work at the place where the work is to be done, hereby proposes and agrees to perform within the time stipulated in the Contract, including all of its component parts and everything required to be performed, and to provide and furnish any and all of the labor, material, tools, expendable equipment, and all utility and transportation services and design of certain items necessary to perform the Contract and complete in a workmanlike manner, all of the work required in connection with the construction of said work all in strict conformity with the plans and specifications and other Contract documents for the prices hereinafter set forth.

The undersigned, as Bidder, does hereby declare that he has read the Addend, Request for Bids, Instructions to Bidders, General Provisions, Special Provisions, Technical Specifications & Conditions, Bid Form, City Forms, Contract Drawings and or Plans, Attachments and Exhibits to this solicitation, Insurance Requirements, Permit Fees, Plan Revisions, Plans, and any other reports or documentation for: **RFB NO. 2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION** and further agrees to furnish all items listed on the attached Bid Form in accordance with the unit price line items as indicated on the bid schedule form(s) submitted. The above specified documents are herein incorporated into the Bid Form.

The undersigned as Bidder, declares that the only persons or parties interested in this submittal as principals are those named herein: that this submittal is made without collusion with any person, firm, or corporation: and he/she proposes and agrees, if the proposal is accepted, that he/she will execute a Contract with the City in the form set forth in the Contract documents and that he/she will accept in full payment thereof the following prices, to wit:

PROJECT TOTAL:

Three hundred sixty-eight thousand one hundred thirty-two dollars and zero cents \$ 368,132.00

PRINT

NUMERICAL

Through the signing of this Bid Form, Bidder attests his/her bid is guaranteed for a period of not less than **NINETY (90) DAYS** from the date of the official bid opening.

Date: 12/16/2025

Signed (Person authorized to bind the company): 

Name (printed): Justin Harris Title: Assistant Secretary

THIS PAGE MUST BE COMPLETED AND SUBMITTED

ATTACHMENT E:

STATEMENT OF ORGANIZATION

The following information will be provided to the City of North Port for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, and capitalization is exactly as registered with the state or federal government.

Company Name Inliner Solutions, LLC

407-421-5283	chris.currie@puriscorp.com	N/A
Telephone #	E-Mail	Fax #
2531 Jewett Lane		
Main Office Address		
Sanford	FL	32771
City	State	Zip Code

Address of Office Servicing City of North Port, if different than above: ☒ SAME AS ABOVE

Office Address

City	State	Zip Code
Telephone #		
E-mail		
Thomas Gottsegen - Chief Legal Officer & Asst. Secretary		
Fax #		

Name & Title of Firm Representative

Federal Identification Number: 01-0684682

Bidder shall submit proof that it is authorized to do business in the State of Florida unless registration is not required by law.

(Please Check One)

Is this a Florida Corporation: ☐ Yes or ☒ No

If not a Florida Corporation,

In what state was it created: Indiana
Name as spelled in that State: Inliner Solutions, LLC

What kind of corporation is it: ☒ "For Profit" or ☐ "Not for Profit"

Is it in good standing: ☒ Yes or ☐ No

Authorized to transact business in Florida: ☒ Yes or ☐ No
State of Florida Department of State Certificate of Authority Document No.: M02000001646

Does it use a registered fictitious name: ☐ Yes or ☒ No

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Names of Officers:

President: Michael Fegen Secretary: Robert Hille
Vice President: Shaun Kologinczak Treasurer: Laurie Rainey
Director: Terry Bell Director: Andrew Warner
Other: Thomas Gottsegen Other: Denise McClanahan

Name of Corporation (As used in Florida):

Inliner Solutions, LLC

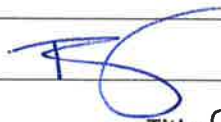
(Spelled exactly as it is registered with the state or federal government)

Corporate Address:

Post Office Box: N/A
City, State Zip:
Street Address: 8686 New Trails Drive, Suite 115
City, State, Zip: The Woodlands, TX 77381

Date: 11/13/2025

Signed (Person authorized to bind the company):



Name (printed): Thomas Gottsegen

Title: Chief Legal Officer & Asst. Secretary

THIS PAGE MUST BE COMPLETED AND SUBMITTED

ATTACHMENT F:

ADDENDA ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following addenda, and the cost, if any, of such revisions has been included in the bid price.

Addendum No.	1	Dated	10/29/2025	Addendum No.	5	Dated	11/12/2025
Addendum No.	2	Dated	10/27/2025	Addendum No.	6	Dated	11/13/2025
Addendum No.	3	Dated	10/30/2025	Addendum No.	7	Dated	11/14/2025
Addendum No.	4	Dated	11/04/2025	Addendum No.	8	Dated	11/20/2025

BID BOND TERMS (SEE FORM NEXT PAGE)

BID BOND: ACCOMPANYING THIS PROPOSAL IS \$18,406.60
(insert: "cash", "Bidder's bond", or "certified check", as the case may be) in an amount equal to at least 5% of the total amount of the bid, payable to the City of North Port. Cashier's checks will be returned to all Bidders after award of bid. If supplying a bid bond please use the attached bid bond form. **Note: Failure to submit a bid bond will be cause for rejection of bid.**

The undersigned deposits the above-named security as a proposal guarantee and agrees that it shall be forfeited to the City as liquidated damages in case this proposal is accepted by the City and the undersigned fails to execute a Contract with the City as specified in the Contract documents accompanied by the required labor and material and faithful performance bonds with sureties satisfactory to the City, and accompanied by the required certificates of insurance coverage. Should the City be required to engage the services of an attorney in connection with the enforcement of this bid, Bidder promises to pay City's reasonable attorneys' fees incurred with or without suit.

The undersigned agrees, if awarded this bid, to furnish a **PERFORMANCE AND PAYMENT BOND** in the amount of 100% of the total project price within ten (10) calendar days after notification of award to the Purchasing Department. The undersigned shall be responsible and bear all costs associated to record Performance and Payment Bond with Sarasota County Clerk's Office. Receipt of said recording and a certified copy of the Bond shall be furnished to the Purchasing Division at the time of the pre-construction meeting.

All Contract documents (i.e.: performance and payment bond, cashier's check, bid bond) shall be in the name of "City of North Port".

Date: 11/19/2025

Signed (Person authorized to bind the company):

Name (printed): Thomas Gottsegen

Title: Chief Legal Officer & Asst. Secretary

THIS PAGE MUST BE COMPLETED AND SUBMITTED

ADDENDA ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following addenda, and the cost, if any, of such revisions has been included in the bid price.

Addendum No.	9	Dated	12/01/2025	Addendum No.		Dated	
Addendum No.	10	Dated	12/01/2025	Addendum No.		Dated	
Addendum No.	11	Dated	12/5/2025	Addendum No.		Dated	
Addendum No.		Dated		Addendum No.		Dated	

Date: 12/4/2025

Signed (Person authorized to bind the company):



Name (printed): Thomas Gottsegen

Title: Chief Legal Officer and Asst. Secretary

THIS PAGE MUST BE COMPLETED AND SUBMITTED

ATTACHMENT G

CITY OF NORTH PORT BID BOND

In Compliance with F.S. Chapter 255.051

STATE OF FLORIDA, CITY OF NORTH PORT

KNOW ALL BY THESE PRESENTS, that Inliner Solutions, LLC, authorized by law to do business as a Contractor in the State of Florida, as Principal, and Everest Reinsurance Company, a Corporation chartered and existing under the laws of the State of DE, as Surety, with its principal offices in the City of Warren, NJ, and authorized to do business in the State of Florida, and in accordance with Section 255.051, Florida Statutes, are held and firmly bound unto the City of North Port, Florida, in the full and just sum of 5% of the Total Bid Price, in good and lawful money of the United States of America, to be paid upon demand by the City of North Port, to which payment well and truly to be made, we bind ourselves, our heirs, executors, administrators, and assigns, joint and severally and firmly by these presents.

The condition of the obligation is such, that whereas the Principal has submitted the attached Bid, dated 12/17/2025, for **2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION.**

NOW, THEREFORE, if the Principal shall withdraw said bid prior to the date of opening the same, or shall within 10 days after the prescribed forms are presented to him for signature enter into a written Contract with City of North Port, Florida, in accordance with the bid as accepted and give a Performance and Payment Bond with good and sufficient surety or sureties as may be required for the faithful performance and proper fulfillment of such Contract and for the prompt payment of all persons furnishing labor or materials in connection therewith or, in the event of failure to enter into such Contract and give such bond within the time specified, if the Principal shall pay the City the difference between the amount specified in said bid and the amount for which the City may procure the required work and/or supplies provided the latter amount to be excess of the amount specified in said bid, then the above obligations shall be void; otherwise, to remain in full force and effect.

IN THE WITNESS WHEREOF, the above written parties have executed this instrument under their several seals dated 12/4/2025, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness as to Principal:

Samuel Lee

(By)

Witness as to Surety:

Emily Donovan
Emily Donovan



(Principal) Inliner Solutions, LLC (SEAL)

Thomas Gottsegen - CWO: ASSE Secretary
Printed Name

Everest Reinsurance Company (SEAL)
(Surety's Name)

Victoria P. Lyons
(By-As Attorney-in-Fact, Surety)



Affix Corporate Seals and attach proper Power of Attorney for Surety.

THIS PAGE MUST BE COMPLETED AND SUBMITTED



**POWER OF ATTORNEY
EVEREST REINSURANCE COMPANY**

KNOW ALL PERSONS BY THESE PRESENTS: That Everest Reinsurance Company, a corporation of the State of Delaware ("Company") having its principal office located at Warren Corporate Center, 100 Everest Way, Warren, New Jersey, 07059, do hereby nominate, constitute, and appoint:

***Russell M. Canterbury, Jessica L. Piccirillo, Steven E. Susanin, Woodrow M. Baird, Diane Moraski, Victoria P. Lyons,
Richard A. Leveroni, Megan B. Donovan***

its true and lawful Attorney(s)-in-fact to make, execute, attest, seal and deliver for and on its behalf, as surety, and as its act and deed, where required, any and all bonds and undertakings in the nature thereof, for the penal sum of no one of which is in any event to exceed UNLIMITED, reserving for itself the full power of substitution and revocation.

Such bonds and undertakings, when duly executed by the aforesaid Attorney(s)-in-fact shall be binding upon the Company as fully and to the same extent as if such bonds and undertakings were signed by the President and Secretary of the Company and sealed with its corporate seal.

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Board of Directors of Company ("Board") on April 21, 2016:

RESOLVED, that the President, any Executive Vice President, and any Senior Vice President are hereby appointed by the Board as authorized to make, execute, seal and deliver for and on behalf of the Company, any and all bonds, undertakings, contracts or obligations in surety or co-surety with others and that the Secretary or any Assistant Secretary of the Company be and that each of them hereby is authorized to attest to the execution of any such bonds, undertakings, contracts or obligations in surety or co-surety and attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the President, any Executive Vice President, and any Senior Vice President are hereby authorized to execute powers of attorney qualifying the attorney named in the given power of attorney to execute, on behalf of the Company, bonds and undertakings in surety or co-surety with others, and that the Secretary or any Assistant Secretary of the Company be, and that each of them is hereby authorized to attest the execution of any such power of attorney, and to attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the signature of such officers named in the preceding resolutions and the corporate seal of the Company may be affixed to such powers of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be thereafter valid and binding upon the Company with respect to any bond, undertaking, contract or obligation in surety or co-surety with others to which it is attached.

IN WITNESS WHEREOF, Everest Reinsurance Company has caused their corporate seals to be affixed hereto, and these presents to be signed by their duly authorized officers this 10th day of September 2025.



Everest Reinsurance Company

By: Anthony Romano, Senior Vice President

On this 10th day of September 2025, before me personally came Anthony Romano, known to me, who, being duly sworn, did execute the above instrument; that he knows the seal of said Company; that the seal affixed to the aforesaid instrument is such corporate seal and was affixed thereto; and that he executed said instrument by like order.

LINDA ROBINS
Notary Public, State of New York
No 01R06239736
Qualified in Queens County
Term Expires April 25, 2027

Linda Robins, Notary Public

I, Sylvia Semerdjian, Secretary of Everest Reinsurance Company do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the bylaws and resolutions of said Corporation as set forth in said Power of Attorney, with the ORIGINALS ON FILE IN THE HOME OFFICE OF SAID CORPORATION, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company, this 4th day of December, 2025.



By: Sylvia Semerdjian, Secretary

ATTACHMENT H

EQUIPMENT

Equipment is located at: 2531 Jewett Lane, Sanford, FL 32771

Please make sure your list of equipment contains the following: Description of equipment, inclusive of manufacturer, year and condition.

List the condition of equipment/vehicles utilized for this project in accordance with the following scale:

1-Excellent: 2-Good: 3-Fair: 4-Poor. (Attach additional sheets, if required.)

Description	Manufacturer	Year	Condition	Leased/Owned
1. *See Attached Equipment List*				
2. _____				
3. _____				

SOURCE OF SUPPLY AND SUBCONTRACTOR FORM

The following sources of supply and subcontractors shall be used for the **2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION**. If Bidder does not have a source of supply or subcontractor, insert "to be determined". When a source or subcontractor is determined, selection will be subject to City approval. (If not applicable, state N/A).

SUBCONTRACTOR(S)

(PLEASE INCLUDE ADDRESS/TELEPHONE NUMBER & E-MAIL)

1. National Water Main Cleaning Company - 15551 Okeechobee Boulevard Loxahatchee Groves, FL 33470 / Tel: (561) 855-6905 / cmaring@nwmcc.com
2. _____
3. _____

SUPPLIER(S)

1. Inliner Solutions, LLC does not currently have any Supplier needs
2. _____
3. _____

Date: 12/16/2025

Signed (Person authorized to bind the company):

Name (printed): Justin Harris

Title: Assistant Secretary

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
03.33597	KIDRON 32' REEFER TRAILER	TRAILERS	1K9133216X1054398
03.33702	BROOKS BROTHERS LAUNCHER TRLR	TRAILERS	1B9US1312GM274137
03.33704	BROOKS BROTHERS LAUNCHER TRLR	TRAILERS	1B9US1319GM274460
03.744029	INVERSION TRAILER	TRAILERS	MVIN339858IND
04.35526	FREIGHTLINER VAC-CON 4212LHAE	PFMTRUCK	1FVHG3FE8KHKC3118
1155	99 TKG LOWBOY TR	TRAILERS	1TKJ04921XB095367
1254	00 PET 330 REEFER	REEFERTRK	1NPNHD7X5YS493157
13.33916	AIR COMPRESSOR APRX VS22A	AIRCOMP	
1304	00 MAC CH613 ROAD TRACTOR	RDTRACTOR	1M1AA18Y8YW126925
1305	00 PET 330 REEFER TK	REEFERTRK	2NPNHD7X9YM536137
1368	01 ATM 8X14 DUMP TR	TRAILERS	1A9FB14261L429072
139322	PROKASRO KASRO 1.7 ROBOT	CAMERAEQ	270141
139324	VERICURE TEMP MONITORING SYS	VERICURE	DE47503265
139386	IST CUTTER SYSTEM	CAMERAEQ	
139421	CHEVROLET IMPALA	PUTRUCK	2G1115S34G9175222
139441	FL M2106 3AX REFRIG TRUCK	REEFERTRK	1FVHCYBS99HAH6034
139443	KENWORTH T800 3AX BOILER TRUCK	HEATERTRK	1NKDX4TX86J157421
139449	FL M2106 2AX STEAM TRUCK	STEAMTRK	1FVACXDC27HX25995
139450	INTL DURASTAR 4300 2AX STEAM	STEAMTRK	1HTMMAAN8DH300742
139454	HYSTER H330XL FORKLIFT	FORKLIFT	C019D01507K
139460	MANAC 3AX 53' STEP DECK TRAILER	TRAILERS	2M5131617W1054599
139464	UTILITY 36' REFRIG TRAILER	TRAILERS	1UYVS253XDM675613
139502	ISUZU CUTTER TRUCK	TVTRUCK	JALE5W163A7901027
139503	UNITED 2AX 14' CARGO TRAILER	TRAILERS	56JTE1421JA159376
139508	INVERSION FRAME 96" ROLLER	INVUNIT	
139509	INVERSION FRAME 168" ROLLER	INVUNIT	
139510	INVERSION TRAILER 36"	TRAILERS	MVIN343081IND
139511	INVERSION TOWER 90"	INVUNIT	
139512	INVERSION TRAILER 36"	TRAILERS	
139515	HYDRATECH HYDRAULIC POWER UNIT	MISCLGEQ	
139518	VERICURE TEMP MONITORING SYS	VERICURE	DE47503345
139526	CONVEYOR ASSEMBLY	WETOUT	
139527	NJR SCRM STATIC MIXER	WETOUT	
139528	NJR MARK XXV RESIN STORAGE	WETOUT	
139529	PROFAB CATALYST MIXING SYSTEM	WETOUT	
139531	NJR 160" WETOUT CONVEYOR	WETOUT	
139532	NJR 96" WETOUT CONVEYOR	WETOUT	
139533	DEKKER VACUUM PUMP	WETOUT	
139535	VERICURE TEMP MONITORING SYS	VERICURE	DE47501271
139992	FORD F150 SUPER CAB 4X4	PUTRUCK	1FTEX1EP6JKE08389
139993	FORD F150 SUPER CAB 4X4	PUTRUCK	1FTEX1EP7JKE40462
140454	PIPEHUNTER EASEMENT MACHINE	ESMTMACH	08193623
140455	PIPEHUNTER EASEMENT TRAILER	TRAILERS	1T91T1311KP391623

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
140456	MTC RFM MACHINE	RFMMACH	
140457	MTC MINI RFM MACHINE	RFMMACH	
140458	MTC RFM TRAILER	TRAILERS	7K7US1314KM001022
140479	PETE 348 3AX STEAM	STEAMTRK	2NP3LJ9X3LM720550
140480	PETE 567 3AX BOILER	HEATERTRK	1NPCXP0X3LD720428
140656	VERICURE TEMP MONITORING SYS	VERICURE	DE47503344
140661	FORD F650 CUES SP CUTTER TRUCK	TVTRUCK	1FDNF6DCXKDF01433
140662	FORD F650 CUES SP CUTTER TRUCK	TVTRUCK	1FDNF6DC4KDF01430
140663	HALLI CURING MONITORING SYS	VERICURE	0004277773
140754	FORD F650 TOOL TRUCK	TVTRUCK	3FDNF65YX3MB02327
140872	REED B20HP CONCRETE PUMP	TRAILERS	19-4108
140995	FORD F150 SUPERCREW 4X4	PUTRUCK	1FTEW1EP1KKE25122
140997	FORD F150 SUPERCREW 4X4	PUTRUCK	1FTEW1EP3KKE25123
141344	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BTXKEF73189
141346	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT6KEF73190
141347	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT8KEF73191
141349	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT1KEF73193
141685	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ9X6EM244409
141687	PETE 377 3AX BOILER	HEATERTRK	1XPCDR9X2KN270454
142683	FORD .5 TON PICKUP	PUTRUCK	1FTFX1CF4DKF74655
142684	FORD .5 TON PICKUP	PUTRUCK	1FTFX1CFXEKD76390
142686	FORD .5 TON PICKUP	PUTRUCK	1FTFX1CF3EKE33772
142688	FORD .5 TON PICKUP	PUTRUCK	1FTFX1CF7EKE33774
142689	FORD F250 CREW 4X4	PUTRUCK	1FT7W2B67FEB32341
142690	FORD ESCAPE	PUTRUCK	1FMCU0F70EUC76681
142691	FORD F250 PICKUP 4X4	PUTRUCK	1FT7W2B6XFE54589
142696	FORD .5 TON CREWCAB 4X4	PUTRUCK	1FTFW1EF7EKF78250
142698	FORD F250 CREWCAB 4X4	PUTRUCK	1FT7W2B67FEB54596
142700	TRAILMAX TD-40-T TILTBED TRLR	TRAILERS	5UCPT3223EA002073
142704	CHEVY COLORADO	PUTRUCK	1GCHSDFE1B8113824
142705	OSW CUSTOM WET OUT TRAILER	TRAILERS	1Z9SF3529GW163042
142711	QLS GEOPOLYMER SPRAY TRAILER	TRAILERS	5WPB3FW26GP003261
142712	FORD F150 CREW PICKUP	PUTRUCK	1FTEX1CMXCFA54297
142713	REED B20HP CONCRETE PUMP	TRAILERS	18-3954
142715	.75 TON PICKUP	PUTRUCK	1FT7W2A61CED23721
142717	FORD F250 PICKUP	PUTRUCK	1FT7W2A68CEB56791
142718	FORD F250 PICKUP	PUTRUCK	1FT7W2A66CEC49051
142725	XTREME XR1245 TELEHANDLER	MISCLGEQ	XR1245081492357
142726	CAT LB FORKLIFT	FORKLIFT	71L00444
142727	6" PIONEER CENTRIFUGAL PUMP	TRAILERS	1P9PSHD1XGCG22162
142728	NISSAN LP FORKLIFT	FORKLIFT	9R0380
142729	DOOSAN G35C-5LPG 3.5K FORKLIFT	FORKLIFT	FGA0E-1790-01427
142730	MULTIQUIP 45KW DCA45SS GEN SET	GENERATOR	7251332

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Asset ID	Description	Asset Class	Serial Number
142731	MULTIQUIP 45KW DCA45SS GEN SET	GENERATOR	7251319
142732	6" PIONEER CENTRIFUGAL PUMP	TRAILERS	1P9PSHD11GC622163
142733	MULTIQUIP 60KW GENERATOR	GENERATOR	370-8271
142734	QUADEX SPRAYMASTER TRLR MT SYS	TRAILERS	1T9BU1226GA694340
142737	24" CIPP STEAM SHOOTER TRAILER	TRAILERS	1E9BS1214HW267150
142738	RESIN STORAGE TANK SYS	WETOUT	
142739	12" CIPP STEAM SHOOTER CART	TRAILERS	ESI-S12RB-U-5133
142742	12" CIPP STEAM SHOOTER CART	TRAILERS	ESI-S12RB-U-5132
142743	SCHWALM CUTTER	CAMERA EQ	154
142744	12" CIPP STEAM SHOOTER CART	TRAILERS	ESI-S12RB-U-5134
142745	SCHWALM CUTTER	CAMERA EQ	153
142746	SCHWALM CUTTER	CAMERA EQ	147
142747	TOWMASTER T-12DT TILT TRAILER	TRAILERS	4KNTT162X5L160533
142748	WET OUT CONVEYOR 120"	WETOUT	HS-2166
142749	TRL REFRIG TRLR	TRAILERS	1UYVS253XWM421032
142751	WET OUT CONVEYOR 120"	CONVEYORS	
142752	GREAT DANE STEPDECK	TRAILERS	1GRDM902BPM025201
142753	CONVEYOR	WETOUT	
142754	FORD F650 2AX DUMP	TVTRUCK	3FRWF6FC9CV357348
142755	SCHWALM CUTTER W/CAMERA	CAMERA EQ	170
142756	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMMML3FH061518
142757	SCHWALM TALPA FSR 2060 CUTTER	CAMERA EQ	171K
142758	TALPA FSR 1330/6 ROBOTIC CUTTR	CAMERA EQ	
142759	FORD F750 22' BOX TRUCK	MISCTRUCK	3FRXF7FE6DV796844
142760	VERICURE TEMP MONITORING SYS	VERICURE	DE47501249
142761	VERICURE TEMP MONITORING SYS	VERICURE	DE47501769
142762	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ9X1EM242891
142763	VERICURE TEMP MONITORING SYS	VERICURE	DE47501770
142764	VERICURE TEMP MONITORING SYS	VERICURE	DE47501771
142765	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	3HAMMMML0FL571416
142766	VERICURE TEMP MONITORING SYS	VERICURE	DE47501766
142767	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ9X6FM267173
142768	SCHWALM TALPA FSR 2060 CUTTER	CAMERA EQ	204
142769	SCHWALM TALPA FSR 2060 CUTTER	CAMERA EQ	210
142770	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ9X8FM267174
142771	VERICURE TEMP MONITORING SYS	VERICURE	DE47501962
142772	PETE 367 3AX BOILER	HEATERTRK	1NPTL40X6FD267100
142773	FORD F750 22' BOX TRUCK	MISCTRUCK	3FRXF7FC5DV018033
142775	FORD F750 22' BOX TRUCK	MISCTRUCK	3FRXF7FEXDV770781
142777	FLYGT 10" MODEL 3301 PUMP	MISCSMEQ	3301.185-1660006
142779	FLYGT 10" MODEL 3301 PUMP	MISCSMEQ	3301.185-1660007
142780	PETE 567 10YD 3AX DUMP	MISCTRUCK	1NPCL79X5FD271465
142781	XP50 HEATED SPRAY SYSTEM	MISCTRUCK	07-00287

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Asset ID	Description	Asset Class	Serial Number
142782	SCHWALM TALPA FSR 1330 CUTTER	CAMERAEQ	000135-18
142783	FORD F550 MECH TRUCK	TVTRUCK	1FDUF5GT4EEB54083
142784	SCHWALM TALPA FSR 2060 CUTTER	CAMERAEQ	000338-06
142785	VERICURE TEMP MONITORING SYS	VERICURE	DE47502689
142786	VERICURE TEMP MONITORING SYS	VERICURE	DE47502746
142787	TRYTEK EZ2 INVERSION UNIT	INVUNIT	1007
142788	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	3HAMMMML5FL509719
142789	TRYTEK EZ2 INVERSION UNIT	INVUNIT	1011
142790	FORD F750 22' BOX TRUCK	MISCTRUCK	3FRXF7FE4FV000482
142793	PETE 567 3AX REEFER TRUCK	REEFERTRK	1NPCL79X8HD419840
142796	PETE 337 2AX JETTER	JETTRUCK	2NP2HM7X7HM444608
142797	BEAVER C165 CUTTER	CAMERAEQ	BGC02506
142798	160" WET OUT CONVEYOR	CONVEYORS	1273
142799	BOILER BODY FOR ASSET 143986	MISCTRUCK	RLU8491/1NPCL70X6HD444684
142801	PETE 337 2AX JETTER	JETTRUCK	2NP2HM7X7JM487660
142802	RESIN TANK STORAGE SYSTEM	WETOUT	
142803	KENWORTH T880 3AX BOILER	HEATERTRK	1NKZLK0X4JJ187776
142805	FLT M2 DUMP TRUCK	MISCTRUCK	1FVACXAK74HM33881
142806	1600A ROBOTIC CUTTER	CAMERAEQ	132K
142807	FTL FLD112 BOILER	HEATERTRK	1FUY3EDB8RP570408
142808	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	142
142810	PUTZ PLASTER PUMP	MISCSMEQ	
142811	FREIGHTLINER BOILER TRUCK	HEATERTRK	1FUJC6CK36LW98928
142813	GMC C6500 TV/CUTTER	TVTRUCK	1GDJ6C1366F433076
142814	GMC C5500 VIDEO TRUCK	TVTRUCK	1GDE5C1246F422413
142815	INTL 4400 REFRIG TRK	REEFERTRK	1HTMSAZR55J032871
142821	GMC 5500 2.5 TN FB	MISCTRUCK	J8DE5B16757300119
142822	KNW T800 BOILER	HEATERTRK	1NKDL00X7BJ279867
142823	INTERNATIONAL 4300 TOOL TRUCK	MISCTRUCK	1HTMMAAN84H659363
142824	INTL 4300 BOX TRUCK	MISCTRUCK	1HTMMAALX6H221123
142825	GMC C5500 VIDEO TRUCK	TVTRUCK	1GDE5C1949F407881
142826	ARS MAINLINE INSPECT SYS	CAMERAEQ	CFG-VEV-0089
142827	FTL M2 REFRIG TRK	REEFERTRK	1FVACWDC57HX24351
142828	FTL M2 BOX TRK	MISCTRUCK	1FVACWDCX4HN07907
142829	MAC CX600 BOILER	HEATERTRK	1M1AE07Y4YW002229
142830	FTL M2 BOX TRK	MISCTRUCK	1FVACWDC96HW75055
142831	FREIGHTLINER M2 TV/CUTTER	TVTRUCK	1FVAC4DA56HV89129
142832	FREIGHTLINER JETTER TRK	JETTRUCK	1FVACXDT7EHFK9891
142833	KNW T800T 3 AX TRACTOR	RDTRACTOR	1XKDDBOX8SR674432
142834	FORD F250 PICKUP 4X4	PUTRUCK	1FTNF2B50AEA03185
142835	FORD .75 TON PICKUP	PUTRUCK	1FTBF2A62BEB18482
142838	FORD .5 TON PICKUP	PUTRUCK	1FTEX1CM2BFD27926
142843	PROKASRO KASRO 1.7 ROBOT	CAMERAEQ	270140

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Asset ID	Description	Asset Class	Serial Number
142848	PROKASRO KASRO 1.7 ROBOT	CAMERAEQ	270142
143496	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X7MM724714
143496T	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X7MM724714T
143497	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X9MM724715
143497T	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X9MM724715T
143986	KENWORTH T800 3AX BOILER	HEATERTRK	3BKDL70X7KF346958
145010	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X2MM753909
145012	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X9MM753910
145200	FORD F650 TV/CUTTER/GROUT TRK	TVTRUCK	1FDWF6DC3MDF08683
145200T	FORD F650 TV/CUTTER/GROUT TRK	TVTRUCK	1FDWF6DC3MDF08683T
145312	FORD F150 CREWCAB 4X4	PUTRUCK	1FTEW1EP9LKD68430
145313	FORD F150 CREWCAB 4X4	PUTRUCK	1FTEW1EP6LKD68434
1454	01 MAC TRUCK-HEATER RB688S	HEATERTRK	1M2AM08C01M005910
145402	GREAT DANE 48' REEFER TRAILER	TRAILERS	1GRAA96287W702790
1459	01 DOR 48FT PLATFORM TR	INVUNIT	1DTP10Z291G057118
146300	VERICURE TEMP MONITORING SYS	VERICURE	DE47503513
146301	VERICURE TEMP MONITORING SYS	VERICURE	DE47504055
146302	VERICURE TEMP MONITORING SYS	VERICURE	DE47504083
146303	VERICURE TEMP MONITORING SYS	VERICURE	DE47504082
146304	VERICURE TEMP MONITORING SYS	VERICURE	DE47504052
146305	VERICURE TEMP MONITORING SYS	VERICURE	DE47504054
146306	VERICURE TEMP MONITORING SYS	VERICURE	DE47504053
146308	VERICURE TEMP MONITORING SYS	VERICURE	DE47504113
146309	VERICURE TEMP MONITORING SYS	VERICURE	DE47504119
146310	VERICURE TEMP MONITORING SYS	VERICURE	DE47504116
146311	VERICURE TEMP MONITORING SYS	VERICURE	DE47504114
146312	VERICURE TEMP MONITORING SYS	VERICURE	DE47504118
146313	VERICURE TEMP MONITORING SYS	VERICURE	DE47504115
146314	VERICURE TEMP MONITORING SYS	VERICURE	DE47504117
146428	VERICURE TEMP MONITORING SYS	VERICURE	DE47501217
146429	VERICURE TEMP MONITORING SYS	VERICURE	DE47501546
1465	03 PET 379 ROAD TRACTOR	RDTRACTOR	1XP5DB0X43N802981
146517	RESIN TANK 1	WETOUT	
146518	RESIN TANK 2	WETOUT	
146519	RESIN TANK 3	WETOUT	
146520	RESIN TANK 4	WETOUT	
146521	RESIN TANK 5	WETOUT	
146522	RESIN TANK 6	WETOUT	
146523	RESIN TANK 7	WETOUT	
146524	RESIN TANK 8	WETOUT	
146525	RESIN TANK 9	WETOUT	
146526	RESIN TANK 10	WETOUT	
146584	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT7MEC32545

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Asset ID	Description	Asset Class	Serial Number
146585	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT9MEC32546
146586	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT0MEC32547
146587	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT2MEC32548
146588	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT4MEC32549
146589	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT0MEC32550
146590	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT2MEC32551
146591	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT4MEC32552
146592	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT6MEC32553
146593	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT8MEC32554
146641	FORD F350 FLATBED 4X4	PUTRUCK	1FD8W3FT4MEC92261
146759	FREIGHTLINER M2 UV CURE TRUCK	MISCTRUCK	3ALACWFC0LDKU8300
1468	97 UTL 48FT REEFER TR	TRAILERS	1UYVS487VU995802
146800	FORD F650 ARIES 2.0 SP CUT TRK	TVTRUCK	1FDWF6DC1MDF08682
146800T	FORD F650 ARIES 2.0 SP CUT TRK	TVTRUCK	1FDWF6DC1MDF08682T
146801	FORD F650 ARIES 2.0 SP CUT TRK	TVTRUCK	1FDWF6DC5MDF08684
146801T	FORD F650 ARIES 2.0 SP CUT TRK	TVTRUCK	1FDWF6DC5MDF08684T
147409	DOOSAN D140S-7 31K FORKLIFT	FORKLIFT	FDC0A-2300-00014
147594	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0XXNM794922
147594T	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0XXNM794922T
147596	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X1NM794923
147596T	PETE 348 3AX REEFER TRUCK	REEFERTRK	2NP3LJ0X1NM794923T
147703	CATALYST HEATER	WETOUT	
147875	FORD F150 CREWCAB 4X4	PUTRUCK	1FTFW1EF2EKF39789
148070	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-404-2844
148071	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-412-2869
148072	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-405-2845
148073	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-414-2873
148074	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-400-2840
148075	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-416-2882
148076	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-402-2842
148077	TALPA 2060 ROBOTIC CUTTER	CAMERAEQ	2060-6D-403-2843
148599	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT0NEC26765
148600	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT6NEC26768
148601	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT4NEC26770
148765	FORD F250 CREWCAB 4X4	PUTRUCK	1FT7W2B63FEB32336
148781	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT2NEC26766
148782	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT4NEC26767
148783	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT8NEC26769
148784	FORD F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT6NEC26771
149241	DOOSAN G45S-5 LPG 10K FORKLIFT	FORKLIFT	FGB03-1280-01330
149471	TALPA 1330 ROBTIC CUTTER	CAMERAEQ	287
149472	TALPA 1330 ROBTIC CUTTER	CAMERAEQ	288
1495	03 ESD 10X12FT DUMP TR	TRAILERS	4YZDT122731006526

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Asset ID	Description	Asset Class	Serial Number
1509	03 STL L7500 VAC CON TK	JETTRUCK	2FZHATAK13AL70323
152131	CAT 308 EXCAVATOR	EXCAVATOR	GG805878
152132	CAT 308 EXCAVATOR	EXCAVATOR	GG805963
152133	CAT 308 EXCAVATOR	EXCAVATOR	GG806091
152134	CAT 308 EXCAVATOR	EXCAVATOR	GG806209
152561	FORD E450 CUTWAY VAN	MISCTRUCK	1FDXE4FS3GDC10347
152563	INTERNATIONAL 4300 BOX VAN	MISCTRUCK	1HTMMAAN06H196931
1527	03 MAC RD688S HEATER TK	HEATERTRK	1M2P267C73M066775
1528	03 MAC CV713 HEATER TK	HEATERTRK	1M2AG11C23M004882
1531	03 STL L7500 HOT SHOT JET TK	JETTRUCK	2FZHATAK73AL70326
1559	INTERNATIONAL STEAM TRUCK	STEAMTRK	1HTMKAANS54H608747
1565	03 PET 330 JET TK	JETTRUCK	2NPNLZ9X23M809727
15736	08 CRANE-10 TON BRIDGE	WETOUT	26852
1596	04 INT 4300 TV/CUT RE: 2012	TVTRUCK	1HTMMAAM64H608693
161081	Miller Weldmaster	MISCLGEQ	CIPP-0116-4313
161082	Quincy Compressor	AIRCOMP	CAI640210
161083	Union Special #1	MISCSMEQ	
161084	Heat Welder	MISCSMEQ	
161085	Union Special #2	MISCSMEQ	
161086	8" Nip Roller	MISCSMEQ	
161087	Pallet Racks	MISCSMEQ	
161088	Sweeper	MISCSMEQ	
161089	Marconi Printer	MISCSMEQ	
161091	100" Nip Roller	MISCSMEQ	
161092	Crane Scale	MISCSMEQ	
161093	81500 Modification	MISCSMEQ	
161094	Projector	MISCSMEQ	
161095	Union Special 89045	MISCSMEQ	
161096	Slitter Modification	MISCSMEQ	
161098	Thwing-Albert Quality Control Tester	MISCSMEQ	
161099	Omega Datalogger	MISCSMEQ	
161105	120-inch Slitting Machine	MISCLGEQ	
161106	CCTV System	MISCSMEQ	
161108	(4) Stands with SS Hooks	MISCSMEQ	
161109	CIPP Modifications - Linear Actuation for CIPP Line	MISCSMEQ	
161110	Security System	MISCSMEQ	
161111	Conveyor Belt for QA/QC Line	CONVEYORS	
161112	Stacker Conveyor Extension for Miller Weldmaster	CONVEYORS	
161113	Sewing Turf Machine	MISCSMEQ	
161114	Leister Uniroof 230V and Leister Variant 230V Welding Machines	MISCSMEQ	
161115	Linear Actuation Tape Weld	MISCSMEQ	
161116	Cascade Roll Paper Roll Clamp - Forklift Attachment	FORKLIFT	

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Asset ID	Description	Asset Class	Serial Number
161117	Conduit and Wire Installation, Equipment Relocation	MISCSMEQ	
161118	Roller Stands	MISCSMEQ	
161121	Miller Weldmaster Modifications	MISCLGEQ	
161123	Cascade Roll Paper Roll Clamp - Forklift Attachment	FORKLIFT	
161124	Hydraulic leg support	MISCSMEQ	
161125	R2511 Roller Assembly A6204 Bearing	MISCSMEQ	CVS00005-A6204-65-V98
161126	Repairs on VFD Motor Controller	MISCSMEQ	
161128	Inventory Computer System	MISCSMEQ	
161129	Mower - Davis Farm	MISCSMEQ	
161130	Model 34TM-10 Table Top Universal Test System	MISCLGEQ	
161132	TR45 JOHNSON PCARD	MISCSMEQ	
161134	185 CFM Air Compressors	AIRCOMP	
161135	AJ1236 WETOUT TABLE	MISCSMEQ	
161136	Roller Tables Safey Equip install	MISCSMEQ	
161137	2 Refrigeration Units	MISCSMEQ	
161138	Heavy Haul Refer rebuild	MISCSMEQ	
161139	Reefer Loading System	REEFERTRK	
161140	550 Gal liquitote containers	MISCSMEQ	
161141	Tank	TANKS	
161145	WET-OUT MD# 300-72	MISCSMEQ	
161146	Liquitote Center Drain unit(550 gallon)	MISCSMEQ	
161147	Forklift	MISCSMEQ	AT29B00428
161148	KVT 3.14 Vacuum Pump	MISCSMEQ	D2836179
161150	RS LINING CANNON	MISCSMEQ	
161151	REPLACE REEFER UNIT IN RS	MISCSMEQ	
161153	2011 Ken Straight Tk	MISCTRUCK	2NKHLN9X3BM281643
161154	RS LINING TRUCK RETROFITTING	MISCTRUCK	
161155	AJ1328 - RS NEW 24' FIFTH WHEEL TRAILER	TRAILERS	
161156	AJ1331 - WETOUT TABLE	MISCSMEQ	
161158	9 Hoover Resin totes	MISCSMEQ	
161159	AJ1237 CA SHOOTR	MISCSMEQ	
161160	2 BLOWERS	MISCSMEQ	
161161	PUSH CAMERA	CAMERAEQ	
161162	TANDEM CARGO TRAILER	TRAILERS	
161163	New Brakes/Wheel Cylinders on Shop Forklift	MISCSMEQ	AT29B00428
161164	Static Resin Mixer	MISCSMEQ	
161165	T880R 50SR Reefer Unit for RF003	REEFERTRK	
161166	Installation of New Hydraulic Roller System in Reefer Trailer	MISCSMEQ	
161167	Installation of New Hydraulic Roller System in Reefer Trailer	MISCSMEQ	
161168	Thermo King Reefer Unit SB 210 with Tempu-Trak	REEFERTRK	

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Asset ID	Description	Asset Class	Serial Number
161169	Siemens PLC and Automation Direct Touchscreen for Static Mixer	MISCSMEQ	
161171	Siemens Winn CC Advance 512 Runtime Software Data Collection System	MISCSMEQ	
161172	Pony Motor Replacement in R002	MISCSMEQ	
161174	Reefer Repair - RF002	REEFERTRK	
161175	Catalyst Pump and Coupling for Resin Mixer	MISCSMEQ	
161176	Data Collection for Static Mixer	MISCSMEQ	
161177	8' Inversion Roller	MISCSMEQ	
161178	New 30x56x10 white cover unibar and laced belt	MISCSMEQ	
1622	05 PET 330 JET TK	JETTRUCK	2NPNLZ9X55M843678
162545	Winch	MISCLGEQ	W09W102035KB13518
162565	Boiler Rebuild 2 L605	MISCLGEQ	1XPHD49X89D774418
162567	Duo Mixx 2000-EN Plaster Machine	MISCSMEQ	
162575	2009 Peterbilt Boiler Truck	MISCTRUCK	1XPHD49X89D774418
162595	Trash Pumps	MISCSMEQ	
162614	Grundocrack Ram 7" straight	MISCSMEQ	PCG180225V338
162617	Plug Locators	MISCSMEQ	
162624	Allied 500XFS Compactor for Kubota KX121	MISCSMEQ	
162628	TSURUMI 4" Gas Powered Pump	MISCSMEQ	EPT3-100HA
162634	Hydraulic Adjust Trench Box	MISCSMEQ	
162637	CWP Inversion unit w/Platform	MISCSMEQ	CO-0058
162639	Salalift 2 Winch 60' and Tripod	MISCLGEQ	
162643	Tool Truck Engine Overhaul L500	MISCTRUCK	1NKDLU9X23J396381
162649	2020 American Utility Trailer	TRAILERS	17YGN20241B021771
162655	GRUNDOCRACK/RAM	MISCSMEQ	PCG180150V321
162660	Tripod/Winch	MISCLGEQ	
162661	Ford 550 Flat Bed - Pipe Bursting	MISCTRUCK	IFDUF5HT0DEB47855
162665	Equipment - Pipebursting Truck	MISCTRUCK	
162670	Freightliner Boiler Repair (IPR)	MISCLGEQ	
162674	Shooters	MISCSMEQ	
162677	Rodderhose - Truck 813	MISCTRUCK	
162678	Jet Truck	JETTRUCK	
162688	Winch 60' x 1/4"	MISCLGEQ	
162701	I/C Equipment Purchase	MISCSMEQ	
162707	Gundocrack Ram	MISCSMEQ	
162712	Lumberjack 300 Series	MISCSMEQ	
162714	JAWS Nozzle/inserts	MISCSMEQ	
162749	8 sets Wireless Headsets	MISCSMEQ	
162750	Eco Sled	MISCSMEQ	
162762	2 Kangaroo Cutters rebuilt	MISCSMEQ	
162772	18023 transmission	MISCSMEQ	
162804	Inversion Unit modifications to air shooter	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
162809	Manhole Truck Tanks 3	MISCTRUCK	
162812	Replumb Internal Boiler Tubes BT007	MISCSMEQ	3FEXX75R3YMA00939
162814	Cisco Boiler BT007	MISCSMEQ	15677
162815	2001 Ford F650 BOX TK	MISCTRUCK	3FDNF65271MA43150
162816	2010 Doosa HP750WCU3 Compressor	AIRCOMP	417236UHUB78
162912	2010 GMC Sierra 250 Truck	MISCTRUCK	1GT5K0BG9AZ265796
162917	2001 International Boiler Truck #56926 - VIN #3HSCNAPR45N056926	MISCTRUCK	3HSCNAPR45N056926
162919	Signs	MISCSMEQ	
162955	2000 Freightliner Boiler Truck FLD 1123D - VIN #1FVX6EDB7YLA88620	MISCTRUCK	1FVX6EDB7YLA88620
162962	Winch and loading system for reefer truck	MISCLGEQ	
162966	Boiler truck buildout	MISCTRUCK	
162968	Equipment for Reefer Trucks	MISCSMEQ	
162988	Kenworth T800 Dump Truck L700	MISCTRUCK	1NKDLU9X23J396381
162990	2010 Winston Trailer LT50	TRAILERS	1W9AP2523BH160161
162997	Fittings and plugs for bypass pumping	MISCSMEQ	
163010	Tool Truck setup-CCCP	MISCSMEQ	
163032	2006 Peterbilt Eco-Cast Truck E021	MISCTRUCK	1XPGDB9X36N855686
163037	Ford F-550 RC Flat bed(4x4) L005	MISCTRUCK	1FDUF5HTXCEB79338
163045	Kenworth Dumptruck-L700(rear end)	MISCTRUCK	1NKDLU9X23J396381
163054	R&D ECO Equip	MISCSMEQ	
163058	Service Truck L001	MISCTRUCK	1GD322C89DF149462
163067	AISIN W/O CORE FOR BX003 - JULY PCARD	MISCSMEQ	
163068	BX003 Aisin w/o Core	MISCSMEQ	
163078	Vacuum Pump	PFMTRUCK	
163081	BUTT Fusion Machine	MISCSMEQ	
163082	Fusion Mach Master Insert	MISCSMEQ	
163083	Vehicle repairs	MISCSMEQ	
163086	Freight boiler	MISCSMEQ	
163128	Deposit for Vericure System	MISCSMEQ	DE47502081
163152	Replace boiler in Truck BT007	MISCTRUCK	3FEXX75R3YMA00939
163159	Deposit for IST Cutting system	MISCLGEQ	
163160	Vericure DTS Control Unit	MISCSMEQ	DE47502081
163163	Transmission for 2000 Isuzu NPR L003	MISCSMEQ	
163165	Software for new Camera/TV Truck	MISCTRUCK	
163168	800' Jetter Hose for jetter truck	JETTRUCK	
163172	2016 Wilson 20 ton tag trailer	TRAILERS	1W9AP2525GH160184
163177	2005 Western Star Dump Tk	MISCTRUCK	5KJABCK85PN94400
163179	Deposit on Clamping device (co 26)	MISCSMEQ	
163182	2010 Freightliner M2 Steam Tk	MISCTRUCK	1FVHCYBS5ADAR5292
163183	Balance of payment on Clamping device Sage 669	MISCSMEQ	
163184	Insta Heat Steam Unit	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
163187	Doosen Portable Power 825 Air Compressor XP825WCU-T3	AIRCOMP	424199
163331	Winch	MISCLGEQ	W09W102036KB13617
163343	2004 Chevrolet C4500 Pickup Stake Bed Truck	PUTRUCK	1GBC4C1224F521554
163354	1 Kubota Excavators #70547	EXCAVATOR	70547
163360	P30 Winch w/ cable motor	MISCLGEQ	
163361	Ford F-550-12' Stake w/ hitch	MISCTRUCK	1FDUF5GT6CEB79337
163410	Service Bed-Ford F450	MISCSMEQ	6132D54
163413	900H Sullair Compressor #3210042	AIRCOMP	2.00703E+11
163420	Hydraulic Pump Sundstrand 8002955	MISCSMEQ	
163421	New reefer for IPR SE trailer	TRAILERS	6001050917
163422	Downpayment on 2008 Freighliner	MISCSMEQ	1FVHCY8558HY71257
163425	5 PCs for TV trucks downpayment	MISCTRUCK	
163430	Compressor/Welder/Generator Vanair 300	AIRCOMP	
163433	2008 Freightliner Mod M2-106 - VIN #1FVHCY8558HY71257	MISCTRUCK	1FVHCY8558HY71257
163434	Downpmt on Used Burnham Boiler	MISCSMEQ	
163437	Vericure Cable Spool 62348	MISCSMEQ	
163444	2011 Doosan HP 275WJD-T3 Air Compressor	AIRCOMP	425179UDVD54
163445	Bagela RW 105 Zoom Boom fork lift	FORKLIFT	2014W620
163450	Equip truck 815 PM FL 08 Intl 7400	MISCTRUCK	
163465	2006 Freightliner M-2106 26' Reefer - VIN #1FVHCYDJ36HW69065	REEFERTRK	1FVHCYDJ36HW69065
163468	Used Burnham boiler quote MET16-0020 1st pmt	MISCSMEQ	
163470	Modify aluminum frame on roller machine	MISCSMEQ	
163481	Bean pump for unit 18003	MISCSMEQ	
163487	Repairs to 2003 Kenworth T800 unit L700	MISCSMEQ	1NKDLU9X23J396381
163488	Jetter assembly for Jetter JT003	JETTRUCK	
163490	2006 Sterling LT9513 Truck - 2FZHAZCV46AW74342	MISCTRUCK	2FZHAZCV46AW74342
163495	Combo Cutter #4 2016 Ford Econoline - VIN #1FDXE4FS3GDC42604	MISCTRUCK	1FDXE4FS3GDC42604
163498	Engine for Reefer 18046	REEFERTRK	
163502	Fuel tans for new boiler truck	MISCTRUCK	
163504	Doosan Portable Compressor P425/HP375WCU	AIRCOMP	445131uhwe8
163506	Roller system for refrigerator truck #4	MISCTRUCK	
163509	Injectors for Reefer truck 18046	REEFERTRK	
163517	1991 TIPKICK BLUE DUMP TRUCK (3RACQ) #3009	MISCTRUCK	1GDP7H1J7MJ506680
163519	1997 GMC C SER C7HO4 DUMP TRUCK #3012	MISCTRUCK	1GDJ7H1M0VJ520194
163523	1990 FORD F800 MED HEAVY CONVENTIONAL (3RACQ) #3017	MISCTRUCK	1FDXK84A0LVA09343
163525	2000 CHEV 3500 SERV TRUCK (3RAQ) #3019	MISCTRUCK	1GBKC34F1YG421710
163527	1997 CRON EQUIPMENT TRAILER 6 X 15 (3RACQ)	TRAILERS	473261926V1110956
163528	1998 HOOP FLATBED TRAILER 20' W/DOVE TAIL (3RACQ)	TRAILERS	4TOFB242XW1005138

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Asset ID	Description	Asset Class	Serial Number
163529	1996 HOME GOOSENECK TRAILER (3RACQ)	TRAILERS	T346082
163530	2012 TAYLOR 6X16 BLACK UTILITY TRAILER (3RACQ)	TRAILERS	T920562
163531	2012 HOME UTILITY BODY TRAILER 7X12 (3RACQ)	TRAILERS	ZZZZ16
163532	2007 HOME RED TANDUM AXLE TRAILER 6X18 (3RACQ)	TRAILERS	017202H1001605
163533	2008 HOME RED TANDUM AXLE TRAILER 5.5X18 (3RACQ)	TRAILERS	ZZZZ14
163535	2014 ANDER 6X12 EQUIP TRAILER W/TILT (3RACQ)	TRAILERS	T389421
163537	2015 HOME 6X20 RED SIDE UTILITY TRAILER (3RACQ)	TRAILERS	T947145
163538	2006 ING RAND AIR COMPRESSOR XP750WCU (3RACQ)	AIRCOMP	372444
163543	2015 HONDA KTH150 TRASH PUMP W/SUCTION & DISCHARGE HOSE (3RACQ)	MISCSMEQ	A135585H6K
163544	2015 KTH150 6" HONDA TRASH PUMP W/SUCTION & DISCHARGE HOSE (3RACQ)	MISCSMEQ	A145582H6K
163547	1996 307 SSR CAT EXCAVATOR (3RACQ)	EXCAVATOR	CCE64437
163549	2007 442 BOBCAT EXCAVATOR	EXCAVATOR	5288911544
163552	2002 MOD#T1800102 618 TRACSTAR FUSION MACHINE 18HP (3RACQ)	MISCSMEQ	C02659
163555	INSERTS FOR FUSION MACHINE 6" IPS, 8" IPS, 8" DIPS, 10" DIPS, 16" IPS AND 16" DI	MISCSMEQ	ZZZZ3
163563	30% downpmt on Truck #R006 Hydraulic System	MISCTRUCK	
163568	Kubota Excavator KX0574R1A	EXCAVATOR	27724
163572	Final fabricating pmt on Truck 005	MISCTRUCK	
163575	Wellpoint Diesel 6" Pison Pump PT 150 SN 16-2071	MISCSMEQ	16-2071
163576	Wellpoint Diesel 6" Piston Pump PT 150 SN 16-1645	MISCSMEQ	16-1645
163591	2001 FORD F650 STAKEBED	MISCTRUCK	3FDNF65221MA43153
163611	Boiler Unit	MISCSMEQ	
163614	CT001 Install DPF Filters	MISCSMEQ	
163618	Vanair Air N Arc	MISCSMEQ	
163621	Final pmt on Hydraulic System for R006	MISCSMEQ	
163626	12x600 3000psi Jetter Hose w/attachments	MISCSMEQ	
163629	2013 Chevy 2500 4x4 truck	MISCTRUCK	1G1KXCG1DF234926
163637	Tools	MISCSMEQ	
163638	Tools	MISCSMEQ	
163639	Tools	MISCSMEQ	
163641	Tool Box - Truck #18013	MISCTRUCK	
163643	Sidesteps for Truck #007	MISCTRUCK	
163644	Turbocharger for Truck #08147	MISCTRUCK	
163651	2011 Ford F-750 Dump Truck VIN #3FRNF7FA0BV556223	MISCTRUCK	3FRNF7FA0BV556223
163652	Hydraulic System for Truck #007	MISCTRUCK	
163654	Fuel Tank and Fuel Pump for Steam Trucks	MISCTRUCK	
163655	Thermo King T-880R 50SR for Truck #18046	MISCTRUCK	
163659	2017 Ford F-650 VIN #1FDWX6EC3HDB02629	MISCTRUCK	1FDWX6EC3HDB02629
163665	Steel Floor for 53' Reefer Trailer	MISCSMEQ	
163667	Part for Kenworth Tractor Trailer - C15 Head	TRAILERS	

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Asset ID	Description	Asset Class	Serial Number
163672	Rebuilt Injectors/Computer	MISCSMEQ	
163677	2018 Winston 20 Ton Trailer	TRAILERS	1W9AP2523JH160112
163684	2015 Dodge Ram 2500 - VIN#3C6UR4HL9FG551732	MISCTRUCK	3C6UR4HL9FG551732
163687	2009 Freightliner	MISCTRUCK	1FUJA6CV89DAH3822
163689	Cues Control Unit - Mina Camera	CAMERAEQ	
163694	2015 RAM - RAM CAB/CHAS	MISCTRUCK	3C7WRKCL9FG502658
163695	2015 FORD F750 - FOR VAC TRUCK REBUILD	PFMTRUCK	3FRXF7FE9FV584667
163701	AJ1333 ECO TRAILER 6	TRAILERS	
163705	Cable Assembly	MISCSMEQ	
163710	Drive Motor - RE40	MISCSMEQ	
163718	Cutter Head and Assembly	MISCSMEQ	
163719	Roller Blade Assembly	MISCSMEQ	
163721	Hydraulic System in Trailer (30%)	MISCSMEQ	
163722	Hydraulic System for Trailer (70%)	MISCSMEQ	
163723	Vanair Air-N-Arc	MISCSMEQ	
163724	CCTV components	MISCSMEQ	
163725	2017 Covered Wagon Enclosed Trailer	MISCSMEQ	
163726	John Deere Backhoe 0025	BACKHOE	
163727	John Deere Backhoe 6874	BACKHOE	
163735	Sales Tax for Camel Purchase	MISCSMEQ	
163736	Fusing Machine Insert - 6 McElroy BF	MISCSMEQ	
163744	6 Winches	MISCLGEQ	
163756	STEAM HOSE (HOSE POWER USA)	MISCSMEQ	
163760	Tool Trailer	TRAILERS	56VBE1621FM619262
163761	Trenching Equipment - Downhole Unit Assembly, Bumper, Tube	MISCSMEQ	
163770	2007 Isuzu NPR with 2007 Tymco 210 Sweeper - VIN #JALB4W16377401335	MISCSMEQ	JALB4W16377401335
163771	Grundfos Pump and Motor	MISCSMEQ	
163780	(3) Grundfos Pump Ends	MISCSMEQ	
163783	Installation of CCTV Equipment	MISCSMEQ	
163787	Camera Cable Assembly	CAMERAEQ	
163788	Vactor Seal Kit	PFMTRUCK	
163793	Super Cutter	MISCSMEQ	
163796	Titan Tank	MISCSMEQ	
163798	Jetter Hose	MISCSMEQ	
163799	Vericure Cable	MISCSMEQ	
163800	Vactor Jet	MISCSMEQ	
163801	Four (4) Dynabrade Air Motors	MISCSMEQ	
163804	New Shooter with 6-inch and 12-inch Hookup Nozzle and Steam Cap Kit	MISCSMEQ	
163805	New Jetter Trailer - 2018 Pipehunter Model 4744 - VIN #1T91T1716JP391514	TRAILERS	1T91T1716JP391514

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Asset ID	Description	Asset Class	Serial Number
163808	Van Air Compressor Unit	AIRCOMP	
163810	Security Camera Installation - Charlotte Office	CAMERAEQ	
163811	Boiler Parts	MISCSMEQ	
163813	Radiator and Engine Maintenance on Doosan Portable Compressor	AIRCOMP	
163815	(3) Dry Steam Generator Units	GENERATOR	
163817	Jet Hose and Nozzle	MISCSMEQ	
163819	Rebuilt Rodder Pump on JT008	MISCSMEQ	
163822	Coax Cable for CCTV Truck L811	MISCSMEQ	
163826	VMAC Parts for TV Truck #L809	MISCTRUCK	
163832	10kW Cummins Diesel Generator	GENERATOR	
163833	Cable Plug Adapter	MISCSMEQ	
163834	High Pressure Pump	MISCSMEQ	
163839	(2) DuroMax Hybrid Dual Fuel XP12000EH Portable Generator	GENERATOR	
163841	New Turbo and Repairs to Reefer #RF002	REEFERTRK	
163845	Solenoid Kit and Repairs on 2009 Peterbilt 386 L605 - VIN #1XPHD49X89D774418	MISCSMEQ	1XPHD49X89D774418
163848	SOLUS Edge Scan Tool	MISCSMEQ	
163849	Texa Truck Diagnostic Package	MISCSMEQ	
163850	Poly Dual Hose Complete with Fittings	MISCSMEQ	
163852	Chain Cutter - Sewer Cleaning	MISCSMEQ	
163854	2018 Che 3500 FLATBED TK	MISCTRUCK	1GBYKYCY6JF261244
163855	2018 Chevrolet 3500	MISCTRUCK	1GB4KYC2JF209089
163856	Oil Pump Repair - L600	MISCSMEQ	
163857	2005 Peterbilt 335 Reefer Truck - VIN #2NPLLD9X25M861047	MISCSMEQ	2NPLLD9X25M861047
163862	2015 Ford F-250	MISCTRUCK	1FT7X2A67FEC03990
163863	Rebuild Doosan Generator	GENERATOR	
163864	L615 Firebox Rebuild and Repairs	MISCSMEQ	
163866	L605 - Burner Repair	MISCSMEQ	1XPHD49X89D774418
163867	Tubing and Plate Repairs on Roller Trailer	TRAILERS	
163871	Repair to Oil Gear Pump for Fusion Machine	MISCSMEQ	
163873	Repair Bundle Box and Fireproof Bundle Box on Boiler Unit	MISCLGEQ	
163874	2012 Freightliner M2 Box Tk	MISCTRUCK	1FVACWDT9CDBF0708
163875	Repairs to Concrete Mixer	MISCSMEQ	
163876	13 Ford F550 Crew Truck - Replaced Water Pump and Gaskets	MISCSMEQ	1FDUF5GT8DEB17570
163878	Aluminum Lift Smasher	MISCSMEQ	
163880	Planetary Gear	MISCSMEQ	
163881	Trailer	TRAILERS	1T91T1829KP391578
163890	Xplorer Free HD Inspection Camera System	CAMERAEQ	

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Asset ID	Description	Asset Class	Serial Number
163891	Vericure DTS System	MISCSMEQ	
163892	8" Roller Blade Assembly	MISCSMEQ	
163893	Wiring Harness and Engine Repairs	MISCSMEQ	
163894	7' Aluminum Tripod and 60' of 1/4" Galvanized Cable	MISCSMEQ	
163895	Aluminum Fuel Tank for Compressor	TANKS	
163896	Shooter Leg Modification	MISCSMEQ	
163897	A-Frame Tow Package for P375 Compressor	AIRCOMP	
163898	Cummins Repair	MISCSMEQ	
163899	HCF 06012 Heat Exchanger	MISCSMEQ	
163901	Hydra Boost Pump	MISCSMEQ	
163902	Doosan Portable Power Compressor XP625WCU	MISCSMEQ	
163903	Replaced Injectors and Repaired Engine in F-550	MISCTRUCK	
163905	Repair Air Compressor on 1999 GMC 8500 - VIN #1GDP7H1C5XJ5K1590	MISCSMEQ	1GDP7H1C5XJ5K1590
163906	Engine Repair on 2004 International 4300 - VIN #1HTMMAAL05H100549	MISCSMEQ	1HTMMAAL05H100549
163907	Box with Controls	MISCSMEQ	
163909	0.9HP Round Air Router, Air Router Guts, and Clamps for Kangaroo	MISCSMEQ	
163911	Whip Hose 180PCG with Extension	MISCSMEQ	
163912	Engine Repairs - VIN #1FDUF5GT6DEA86996	MISCSMEQ	1FDUF5GT6DEA86996
163913	High Definition Camera System	CAMERAEQ	
163915	Pocket IQ2 Diagnostics Meter and Software	MISCSMEQ	
163917	FCR Filter Replacement - 2011 Ford #3005	MISCSMEQ	3FRNF7FA0BV556223
163920	Turbocharger Replacement - 2012 Ford F-550	MISCTRUCK	
163921	Thermo King V320Max20 for Unit #18016	MISCSMEQ	
163922	Large Diameter Steel Shooter	MISCSMEQ	
163924	7" Hammer Repair and Parts	MISCSMEQ	
163925	Engine Repair - 2005 Freightliner M2 - RF003	MISCSMEQ	
163926	Complete Brake Repair - 2012 Ford F-550 - L094	MISCTRUCK	
163927	2014 Ford F-550 - VIN #1FDUF5HT8EEA08008	MISCTRUCK	1FDUF5HT8EEA08008
163928	5/8 x 2200ft Galvanized Wire	MISCSMEQ	
163929	Resin Tank Protection	TANKS	
163930	Rod for Static Mixer	MISCSMEQ	
163931	Compressor Repairs	AIRCOMP	
163932	Turbo Repair - 2014 Dodge 3500 VIN #3C63RRGL6EG3D4287	MISCSMEQ	3C63RRGL6EG3D4287
163933	Dirt Removal	MISCSMEQ	
163934	Engine Repairs - 1999 GMC 8500 - VIN #1GDP7H1C5XJ5K1590	MISCSMEQ	1GDP7H1C5XJ5K1590
163935	Engine Repairs - 2012 Ford F-550 - L004	MISCSMEQ	
163936	5" Pipebursting Hammer	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
163939	Transmission Replacement - 2013 Ford F-550 - VIN #1FDUF5GT6DEA86996	MISCTRUCK	1FDUF5GT6DEA86996
163940	Fuel Pump Replacement	MISCSMEQ	
163942	Equipment Repairs	MISCSMEQ	
163943	Aluminum Shooter #2 (18"-36") - Large Diameter	MISCSMEQ	
163947	Injector Repair and Service	MISCSMEQ	
163948	Titan Impact 640 Modified Pump	MISCSMEQ	
163949	Head Assembly Microswitch Replacement on Boiler	MISCSMEQ	
163951	Aluminum Shooter #2 (18"-36") - Large Diameter	MISCSMEQ	
163952	25KW Generator for L607	GENERATOR	
163958	Transmission and Driveline Repair - 1999 Kenworth - VIN #9BKMLD9X6YF839590	MISCSMEQ	9BKMLD9X6YF839590
163960	Bucket Cylinder Replacement and Maintenance	MISCSMEQ	
163961	Engine Replacement - 2012 Ford F-550 - VIN #1FD0W5GT0CEC31009	MISCTRUCK	1FD0W5GT0CEC31009
163962	Engine Power Take Off Repair - L809	MISCSMEQ	
163964	(2) Wacker Neuson 3" Trash Pump	MISCSMEQ	
163965	Winch Repairs and Tether Remote Control	MISCSMEQ	
163966	Equipment	MISCSMEQ	
163967	2012 FORD SUPER DUTY TRUCK	MISCTRUCK	1FD0W5GT0CEC31009
163968	Equipment	MISCSMEQ	
163969	COWIN EQUIPMENT REPAIR	MISCSMEQ	
163970	Equipment	MISCSMEQ	
163971	Texas Trucking & Rigging Stretch Double Frame	MISCTRUCK	
163972	Transmission Assembly disel engine 4WD	MISCSMEQ	
163973	9OT AT Truck Crane	MISCSMEQ	
163974	New transmission	MISCSMEQ	
163975	Waterpump and thermostat repairs.	MISCSMEQ	
163976	New Transmission	MISCSMEQ	
163977	New Turbo Engine	MISCSMEQ	
163978	July 2020 Camera Invoice	MISCSMEQ	
163979	Cummins ISB replacement mtr for Eco box trk 2012 Freightliner CDBR252	MISCSMEQ	
163980	75KW Genset Diesel generator	GENERATOR	
163981	Install engine in Julian Poe's truck '12 F550 Trk 92	MISCSMEQ	
163982	July 2020 Camera invoice	MISCSMEQ	
163983	Basic Shooter for Jermaines shooter	MISCSMEQ	
163984	Aug 2020 Camera shop E Vidler	MISCSMEQ	
163985	Sept Camera Shop invoices EV	MISCSMEQ	
163987	replacement long block crate DFC Diesel Engin	MISCSMEQ	
163992	Kangaroo cutter assembly	MISCSMEQ	
163993	Rebuilt compressor for Reefer RF02	AIRCOMP	
163994	Dec 2020 Camera shop invoices Ed Vidler	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
163995	Repair ERS Vac Pump	PFMTRUCK	
163996	JAN 2021 camera shop invoices	MISCSMEQ	
164000	Repairs to F550 6.7L Service Truck	MISCTRUCK	
164001	FEB 2021 Camera shop invoices	MISCSMEQ	
164002	March 2021 Camera shop invoices	MISCSMEQ	
164003	Replace engine on Kubota mini excavator unit KX1213R1S	EXCAVATOR	
164004	7" reversible hammer and oiler	MISCSMEQ	
164005	April 2021 Camera shop invoices	MISCSMEQ	
164006	Pipehunter 4744 Jetter Trailer	MISCLGEQ	1T91T1611LP391599
164007	PipeHunter 4744 Jetter Trailer	MISCLGEQ	1T91T1628MP391822
164008	Conversion of 3 IST Truck to Schwalm Trucks with cutters	MISCSMEQ	
164009	2021 Chevy Silverado Flatbed 1GB4YSEY8MF149008	MISCTRUCK	1GB4YSEY8MF149008
164010	May 2021 Camera shop invoices	MISCSMEQ	
164011	July Camera Shop Invoices	MISCSMEQ	
164014	Aug'21 Camera Shop Invoices	MISCSMEQ	
164015	Replace Fuel Pump	MISCSMEQ	3D6WC78A28G214495
164016	Sep'21 Camera Shop Invoices	MISCSMEQ	
164017	Kubota Diesel Generator	GENERATOR	
164018	Oct'21 Camera Shop Invoices	MISCSMEQ	
164020	Burst Head Assembly 8" IPS-S	MISCSMEQ	
164021	(1) VC200 Car Board and (1) SP v200 Nexgen - VC200 Controller Envirosight	MISCSMEQ	
164022	Camera Module for Envirosight Camera	CAMERAEQ	
164023	INT'L 4900 REEFER VAN	REEFERTRK	1HTSDAAN3SH656665
164025	MACK CH REFR TRUCK	MISCTRUCK	1M2AA13Y5SW046413
164027	Repair Engine in 2005 Peterbilt 335 - VIN #2NPLLD9X25M861047	MISCSMEQ	2NPLLD9X25M861047
164028	Turbo Replacement 2008 Freightliner - VIN #1FVHCYBS58HY71257	MISCSMEQ	1FVHCYBS58HY71257
164029	Engine Repairs on 2008 Freightliner Reefer - VIN #1FVHCYBS58HY71257	REEFERTRK	1FVHCYBS58HY71257
164035	Truck Repairs - 2001 Mack RD688S - VIN #1M2P267C01M056764	MISCTRUCK	1M2P267C01M056764
164036	Engine Repairs - 2001 Mack Tractor - VIN #1M2P267C01M056764	RDTRACTOR	1M2P267C01M056764
164037	01 Mack RD600 Reefer Truck	REEFERTRK	1M2P267C01M056764
164038	New Refrigeration Unit for Trailer 18023	TRAILERS	1M2AA13Y5SW046413
164042	Ford 650 Converted to Dump Truck	MISCTRUCK	
164044	Engine for 2005 Peterbilt 335 VIN 2NPLLD9X25M861047	MISCSMEQ	2NPLLD9X25M861047
164057	99 Mack Dump Truck	MISCTRUCK	1M1AA07Y7XW014949
164061	98 GMC Sewer Cleaner Tk	MISCTRUCK	1GDM7H1J7WJ509004

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
164064	2012 Ford Service Truck	MISCTRUCK	1FD0W5GT9CEC31011
164067	2013 Ford F550 Service Truck	MISCTRUCK	1FD0W5GTXDEB21036
164075	Pickup Truck	PUTRUCK	1GB4CZCG9BF238990
164076	Pickup Truck	PUTRUCK	1FD0W5HT0EEB28559
164077	05 FRE Water TK	MISCTRUCK	1FUJC5DE06HV99967
164078	Service Truck	MISCTRUCK	1M1AJ06Y75N002661
164080	Air Compressor	AIRCOMP	469031UAZF15
164081	Boiler Truck	MISCTRUCK	1M1AJ06Y75N002661
164082	Boiler Truck (Generator add-on)	MISCTRUCK	1M1AJ06Y75N002661
164084	CCIP 37' Peterbilt Eco Cast Truck	MISCTRUCK	1XPGDB9X76N855674
164085	2004 INT 4300 Dump TK	JETTRUCK	1HTMMAAN74H673027
164086	Boiler system	MISCSMEQ	1M1AJ06Y75N002661
164087	2015 Ken T800 VAC TK	PFMTRUCK	1NKDL40XXFJ443061
164088	17 AME Utility Flatbed Trailer	TRAILERS	17YBP1627HB065523
164090	2017 Chevy Service Truck	MISCTRUCK	1GB4KYCY3HF187940
164091	2015 Ford F350 Service Truck	MISCTRUCK	1FD8W3HT7FEA80891
164092	2015 Ken T800 VAC TK	PFMTRUCK	1NKDL40XXFJ443061
164093	Boiler Truck	MISCTRUCK	1XKDAU8X87R155395
164094	09 GMC C6500 Steam TK	MISCTRUCK	1GDJ6C1B29F408221
164097	Service Truck	MISCTRUCK	1GC4K1EY7JF206267
164099	2017 FOR F350 Flat TK	MISCTRUCK	1FD8W3HT9HEB37885
164100	Service Truck	MISCTRUCK	1FD0W4HT6CEA03847
164102	Service Truck (Repairs 15-471)	MISCTRUCK	1FD0W5GTXDEB89983
164103	11 FOR F550 Flat TK	MISCTRUCK	1FD0W5GT6BEA61088
164104	2007 Reefer Trailer, Great Dane 53'	TRAILERS	1GRAA062X7S700185
164105	2004 Int'l Reefer	REEFERTRK	1HTMSADR54J085348
164106	2004 Intl Box Truck	MISCTRUCK	1HTMNAAM24H608073
164107	2003 International Reefer	REEFERTRK	1HTMSAAR83J069390
164108	2004 Reefer Utility Trailer TK SB230 - VIN #1UYVS24824U161204	TRAILERS	1UYVS24824U161204
164109	2013 Ford F650 Box Truck	MISCTRUCK	3FRNF6FA0DV038822
164110	2013 Ford F750 Jet Truck	JETTRUCK	3FRNF7FA3DV035564
164111	2015 4300 Jet Truck	JETTRUCK	3HAMMMMMM1FL182437
164112	2021 Chevy 3500 Flatbed 1GB4YSEY4MF195628	MISCTRUCK	1GB4YSEY4MF195628
164113	2010 Ford F750 Flatbed	MISCTRUCK	3FRXF7FE4AV266335
164120	2005 Mack Boiler Truck	MISCTRUCK	1M2AG11Y95M016946
164127	2006 Peterbilt EcoCast Truck	MISCTRUCK	1XPGDB9X96N855644
164132	2013 Ford Truck F550	MISCTRUCK	1FD0W5GTXDEB89983
164133	2008 FORD F-750 Jet Truck	JETTRUCK	3FRWF75X68V074794
164134	Repair-Valve casing on 2008 Ford F750 Jet Truck JT21	JETTRUCK	3FRWF75X68V074794
164135	2001 Sterling Dump Truck	MISCTRUCK	2FZHAZAS91AH48133
164136	2006 International 24' Bobtail Reefer	REEFERTRK	1HTMMAAN06H196931

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Asset ID	Description	Asset Class	Serial Number
164137	Transmission Replacement - 2000 Kenworth T300 - VIN #3BKMLD9X6YF839590	MISCSMEQ	3BKMLD9X6YF839590
164149	2009 Freightliner Flatbed - VIN #1FUJA6CVX9DAH3823	MISCTRUCK	1FUJA6CVX9DAH3823
164150	2016 Ford F-550 - VIN# 1FDUF5GT9GED41578	MISCTRUCK	1FDUF5GT9GED41578
164151	2017 Ford Van - Helix Manhole Inspection System Truck VIN #1FTYR2CG0HKA27406	MISCTRUCK	1FTYR2CG0HKA27406
164152	2016 Chevrolet Silverado 2500 - VIN #1GC1KVE89GF212946	MISCTRUCK	1GC1KVE89GF212946
164156	2013 Ford F-550 - TV Truck - VIN #1FDUF5GT6DEA86996	MISCTRUCK	1FDUF5GT6DEA86996
164159	2008 Dodge 5500 Crew Cab - VIN# 3D6WC78A28G214495	MISCTRUCK	3D6WC78A28G214495
164160	Rollback	MISCSMEQ	1HSHGAER2SH680717
164161	Repairs on truck VT01	MISCTRUCK	2NPLHD6H35M886991
164162	Repairs on truck VT01	MISCTRUCK	2NPLHD6H35M886991
164163	2005 Jet truck VT01 Transport	MISCSMEQ	2NPLHD6H35M886991
164164	2014 Freightliner box truck Model M2-106	MISCTRUCK	3ALACXDT7EDFU2405
164165	2000 Kenworth Reefer Truck - VIN #3BKMLD9X6YF839590	REEFERTRK	3BKMLD9X6YF839590
164242	Cable Assembly	MISCSMEQ	Part: 0305490-10H
164245	2007 IH 4300	MISCTRUCK	1HTMMAAN97H399561
164246	2005 Freightliner M2	MISCTRUCK	1FVHCYDC95H001332
164249	Sewer Jet Hoses	MISCSMEQ	Parts PQ01462 & PQ9990
164250	Motor, Gear Box, Assembly	MISCSMEQ	PT135
164253	Vinylflow PVC Hose	MISCSMEQ	Item F-VF400
164254	Cables & Adapters	MISCSMEQ	
164261	Sign - Arrow Board	MISCSMEQ	270013
164262	Winches & Other Equip/Tools	MISCLGEQ	
164280	Scanner	MISCSMEQ	
164286	Scaffolding	MISCSMEQ	
164291	Wet Out Table - AJ1312	MISCLGEQ	
164292	Impact Pro Monitor w/ Pump	MISCSMEQ	
164293	Protection Equipment	MISCSMEQ	
164294	Protection Equipment	MISCSMEQ	
164297	AJ1228/AJ1223	MISCSMEQ	
164301	AJ1336 Shooter	MISCSMEQ	
164302	TE-20/72x32 Maxon Gate	MISCSMEQ	114270253
164303	2015 Ken T370 Reefer TK	REEFERTRK	2NKHJ9X2FM426959
164316	AJ1442- KENTWORTH T370 (ADDTL COSTS)	MISCSMEQ	2NKHJ9X2FM426959
164321	22' REEFER TRUCK - FRTL M2	REEFERTRK	1FVHCYDC65HN76704
164331	JT16 Sewer Jet	MISCLGEQ	
164333	2008 Freightliner Boiler Truck - VIN #1FUJA6CK98LZ05020	MISCTRUCK	1FUJA6CK98LZ05020
164334	Camera invoices	MISCSMEQ	
164353	IST Cutting system Truck 2	MISCTRUCK	

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
164356	Used 2005 Komatsu FG45T8 Forklift	FORKLIFT	131361
164363	Deposit on IST Cutting System (2nd truck)	MISCTRUCK	
164369	2006 Ing Rand P185WIR Air Compressor	AIRCOMP	374966UHQ820
164374	Sullair 185 John Deere Compressor sn 201107130159	AIRCOMP	2.01107E+11
164375	Sullair 185 John Deere compressor sn 201105230023	AIRCOMP	2.01105E+11
164381	11.0 HP Honda Pump	MISCSMEQ	160501093
164384	Engine for truck	MISCTRUCK	
164387	Nov pmt Komatsu FG45TB Forklift	FORKLIFT	131361
164390	Komatsu Forklift pmts Sep/Dec/Jan17 Wells Fargo FAS 135	FORKLIFT	131361
164393	AJ1334 SEATTLE ECO EQUIPMENT	MISCSMEQ	
164394	Eco Sleds and Hoppers	MISCSMEQ	
164395	Eco Sled	MISCSMEQ	
164397	FEb pmt on Komatsu FG45T8 Forklift Sage 135	FORKLIFT	
164402	March pmt on 05 Komatsu FG45T8 Forklift	FORKLIFT	131361
164403	Power cutter 200 for IST truck	MISCTRUCK	
164410	Gas Detector (6 count)	MISCSMEQ	
164414	6-inch pump with Vac Assistance - Diesel	MISCSMEQ	
164415	Boiler Tubes for Boiler #17041	MISCSMEQ	
164422	12-inch Shooters with side gate (2 count)	MISCLGEQ	
164431	Towable Air Compressor	AIRCOMP	
164434	Camera Inventory Assembly	MISCSMEQ	
164437	RED PVC HOSE (HOSE POWER USA)	MISCSMEQ	
164450	Camera Parts	CAMERAEQ	
164457	Three Coils for ACS246-200DO Machines	MISCSMEQ	
164466	Four New Reefer Units with Alarms	REEFERTRK	
164469	Portable Two Way Radios, Microphone Remote and Gas Detector	MISCSMEQ	
164474	100KW Perkins Generator for Boiler Truck #55001	GENERATOR	
164476	EGR Cooler Conversion	MISCSMEQ	
164479	2019 Nexhaul N25TA 25-foot 10 Ton Deckover Trailer - VIN #564BF2522KR016892	TRAILERS	564BF2522KR016892
164480	2018 Ford F-550 - VIN #1FD0W5HT9JEC37015	MISCTRUCK	1FD0W5HT9JEC37015
164482	2x10 Steel Pipe and Clamps	MISCSMEQ	
164483	50' Pump Hose	MISCSMEQ	
164487	(2) Shooter Machines	MISCSMEQ	
164494	2011 Kenworth T800 Crude Tank Truck	MISCTRUCK	1NKDX4EX5BJ275563
164496	Chain Clamps, Chain, Confined Space Rescue System	MISCSMEQ	
164499	(6) Honda EU2200ITA Generators and (1) Honda WT40X Pump	MISCSMEQ	
164500	Honda WT40X Trash Pump	MISCSMEQ	
164502	Texas Dealer Level Truck Diagnostic Scanner Tool with Laptop	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
164504	Hot Water Generator	GENERATOR	
164508	Poly Dual Hose with Fittings	MISCSMEQ	
164509	Main Board for Dig Box	MISCSMEQ	
164510	Cues Cable Plug Adapter and Repairs	MISCSMEQ	
164511	MiNA Camera NTSC Cues	CAMERA EQ	
164513	2016 GMC 3500 - VIN #1GD42VC80GF285165	MISCTRUCK	1GD42VC80GF285165
164515	(2) 2" and (2) 3" Diamond Cutting Balls	MISCSMEQ	
164516	Water Heater for Eco Crew	MISCSMEQ	
164518	Re-Tubing Boiler 55001 (Hurst Boiler)	MISCSMEQ	
164520	Repairs and New Tracks for Excavator	EXCAVATOR	
164522	Repairs and New Tracks for Excavator	EXCAVATOR	
164523	Taxes Due for Hydraulic System Installed on Reefer	MISCSMEQ	
164526	2018 Chevrolet 3500 -	MISCTRUCK	1GB4KICY6JF230205
164527	Steam Hose and Fittings for Boiler	MISCSMEQ	176650
164529	2018 Chevrolet 3500	MISCTRUCK	1GB4KICY5JF273952
164530	2006 Ford F-650 - VIN #3FRWF65N36V228822	MISCTRUCK	3FRWF65N36V228822
164533	Reefer Loading System	MISCSMEQ	
164537	(2) Honda 2200W Inverter Generator and (2) Honda 4" OD Gasoline Pump	MISCSMEQ	
164539	Water Boiler Repair - VIN #1NKDX4EX5BJ275563	MISCLGEQ	1NKDX4EX5BJ275563
164541	Large Air Compressor	AIRCOMP	
164542	8" Steam Can and Cutter Extensions	MISCSMEQ	
164543	Hydraulic System	MISCSMEQ	
164545	Cutter Extensions, Milling Balls, and Steam Cans	MISCSMEQ	
164546	Air Motor for Camera Shop	MISCSMEQ	
164548	Turbo Kit Repair - Truck #50000	MISCTRUCK	2NKHLJ9X2FM426959
164549	Pump 6" Vac Assist	MISCSMEQ	
164552	July 2020 Camera Invoice	MISCSMEQ	
164554	Sept Camera shop invoices	MISCSMEQ	
164555	October 2020 Camera shop invoices	MISCSMEQ	
164557	Coax cable for CU 016	MISCSMEQ	
164558	Nov 2020 Camera shop invoices	MISCSMEQ	
164559	Dec 2020 Camera shop invoices	MISCSMEQ	
164560	JAN 2021 camera shop invoices	MISCSMEQ	
164562	FEB 2021 Camera shop invoices	MISCSMEQ	
164564	March 2021 Camera shop invoices	MISCSMEQ	
164568	April 2021 Camera shop invoices	MISCSMEQ	
164569	2013 fORD f750	MISCTRUCK	3FRNF7FA7DV034515
164570	2021 Chevy 2500 Silverado	MISCTRUCK	1GC4YME79MF214978
164571	May 2021 Camera shop invoices	MISCSMEQ	
164573	Tipco 50 ft Steam hose	MISCSMEQ	
164574	June 2021 Camera shop invoices	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
164575	2021 Freightliner VACALL #ML7635 purch thru WC Leasing	PFMTRUCK	1FVHG3DVXMHML7635
164576	July 2021 Camera Shop Invoices	MISCSMEQ	
164578	2006 Peterbilt 385 (Eco truck)	MISCTRUCK	1XPGBD9X96N855689
164579	Eco Truck # 61001	MISCTRUCK	1XPGBD9X96N855689
164581	2015 International 4300 Box Truck	MISCTRUCK	3HAMMMMMM0FL182378
164585	2015 Chevy Silverado 2500	MISCTRUCK	1GC1KVE89FF105474
164586	2012 F550 TV Truck	MISCTRUCK	1FDUF5GT7CED19279
164588	2004 Freightliner Reefer Trk Vin 85885	REEFERTRK	1FVHCYDCX4HM85885
164860	14 BEN CARGO TR	TRAILERS	5UZBE1621ED027836
1649	05 INT 4300 TV/CUT RE: 2013	TVTRUCK	1HTMMAAM35H122618
1675	06 PET 335 JET TK	JETTRUCK	2NPLLZ9X56M890069
1685	06 PET 335 6X4 FLATBED TK	PUTRUCK	2NPLLZ9X36M890068
1689	06 PET 335 6X4 REEFER TK	REEFERTRK	2NPLLZ9X06M898757
1694	06 PET 335 JET TK	JETTRUCK	2NPLLZ9X46M641911
1695	06 PET 335 JET TK	JETTRUCK	2NPLLZ9X26M641910
1700	DUMP TRUCK	MISCTRUCK	1M2AG11Y65M035339
1703	06 PET 335 6X4 REEFER TK	REEFERTRK	2NPLLZ9X66M641912
1704	06 PET 335 6X4 STEAM HURST TK	STEAMTRK	2NPLLZ9X86M641913
1705	06 PET 335 6X4 STEAM HURST TK	STEAMTRK	2NPLLZ9X6M641914
1708	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMAAM46H285764
1709	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMAAM66H285765
1710	INTERNATIONAL 4400 STEAM TRUCK	STEAMTRK	1HTMKAAN56H311870
1711	06 INT 4400 4X2 STEAM TK	STEAMTRK	1HTMKAAN96H311869
1750	07 PET 335 6X4 REEFER TK	REEFERTRK	2NPLLZ9X47M696974
1756	07 PET 335 6X4 REEFER TK	REEFERTRK	2NPLLZ9X27M696973
1757	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMAAM57H468219
1764	07 RYL CARGO TR	TRAILERS	5LABE16237M014220
1765	07 RYL CARGO TR	TRAILERS	5LABE16257M014221
1774	07 COR TR	TRAILERS	4MJUG18297E045748
1775	CORN PRO 18' TRAILER	TRAILERS	4MJUG18277E045747
180024	Self Propelled TV Truck F550. CE22-027	TVTRUCK	1DUF5GT9NEE52581
180025	Self Propelled TV Truck F550. CE22-027	TVTRUCK	1DUF5GT8NEE59781
180028	2010 Freightliner Sprinter Reefer	REEFERTRK	33416-08
180029	2008 Freightliner Sprinter Reefer	REEFERTRK	33424-08
180052	Schwalm Cutter -2060 TV Truck	TVTRUCK	484
180053	Schwalm Cutter - 1330 TV Trucks	TVTRUCK	
180067	Unit# 1708 Engine/valve repairs & labor	TVTRUCK	
180068	Transmission & Exhaust work on unit 4010	STEAMTRK	
180069	Carrier Supra 960 Stby PO 14573	REEFERTRK	
180071	Unit 35564 - 10K Generator 10 HDKCC-42345H	TVTRUCK	
180073	Davit Arm	MISCSMEQ	

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
180074	Main Cable Holder Module w/ Cable CUES Cbl Plug Adptr Tool Rotation Holder Ext Left 1330 Tool Rotation Holder Ext Right 1330	TVTRUCK	
180075	18 SPEED HALO LUBE 12 BOLT CORE 13080 142811	HEATERTRK	
180076	Unit 27639 - DPF ASSEMBLY, DOC Outlet Module, etc.	STEAMTRK	
180077	Camera Repair Parts	TVTRUCK	
180078	Camera Repair parts 7	TVTRUCK	
180079	COMPRESSOR & COMPRESOR OIL Unit 35562	REEFERTRK	
180080	TV truck 36260 1806 (Repair)	TVTRUCK	
180081	Camera Rebuild TR 332021040007	PUTRUCK	332021040007
180082	Motor Driving Section Talpa2060 Hydraulic Cylinder 2060 v6 Hydraulic Pump Unit Talpa2060 Hydrlic Unit Compl Talpa2060	CAMERAEQ	
180083	Parts for TV truck	MISCTRUCK	
180084	Repairs for TVTruck	TVTRUCK	
180085	Repairs for TV Truck	TVTRUCK	
180086	TRANSMISSION FOR TRUCK 36968	PUTRUCK	
180087	Camera Rebuild	CAMERAEQ	
180088	Hydraulic Cylinder 2060 v6 Hydraulic Pump Unit Talpa2060 Hydrlic Unit Compl Talpa2060	CAMERAEQ	
180089	PO: 34900 Xpress Check	MISCTRUCK	
180090	Cylinder head	REEFERTRK	
180099	CCTV Security System w access control	MISCSMEQ	
180156	Replaced Clutch	MISCTRUCK	
180157	Fuel System Replacement	PUTRUCK	
180158	Motor Replacement/Spare Synchronous 3	TVTRUCK	
180159	Replace ends on twin cable for Camera	TVTRUCK	
180160	Cap Repair - Turbo	MISCSMEQ	
180161	Chiller Repairs	MISCSMEQ	
180180	Repairs & Labor unit #1708	TVTRUCK	
180184	Heater Plates	MISCSMEQ	
180185	Steam Packers Orleans (PET118-018-20SK)	MISCSMEQ	
180186	Steam Packers Orleans (PET118-030-12SK)	MISCSMEQ	
180191	Transmission repair/rebuild	JETTRUCK	
180193	Extensive repair Schwalm 2060 Talpa Arms	CAMERAEQ	
180215	Inspection Equipment	MISCSMEQ	Part # SRV-02
180228	Water Jet Rebuild Kit	JETTRUCK	
180229	Engine Repairs	REEFERTRK	
180230	Camera Head Replacement	CAMERAEQ	
180231	Machinery & Equipment (Audit Asset)	MISCSMEQ	
180232	Trucks Trailers Autos (Audit Asset)	TRAILERS	
180239	Giant Pump	MISCSMEQ	
180245	Supra S7 Refrigeration Unit	MISCSMEQ	

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Asset ID	Description	Asset Class	Serial Number
180246	Supra S7 Refrigeration Unit	MISCSMEQ	
180283	R&R DPF, DOC & Injector	MISCTRUCK	
180285	Helical coil truck repair	HEATERTRK	
180289	New Injector, ECR Cooler, Radiator Cap	MISCTRUCK	
180290	Assembly pump parts	MISCSMEQ	
180293	Transmission & Rear Main Seal repair	JETTRUCK	
180294	Engine Repair	TVTRUCK	
180295	Reefer Repair	REEFERTRK	
180298	CYC Separator Stand Pipe Assembly, Rear Door, Compression Coupling repair	PFMTRUCK	
180299	Carrier S Truck Refrigeration Unit	REEFERTRK	
180338	Confined Space Equipment	MISCSMEQ	
180339	Repairs on 35934	RDTRACTOR	
180340	07 PET Rush Steam TK	STEAMTRK	2NPLHZ7X87M731035
180341	TREKK360 HD Manhole Inspection Kit - Manhole Camera	CAMERAEQ	
180345	Engine Repairs	MISCSMEQ	
180346	Engine Repair	RDTRACTOR	
180353	Samsara Dual facing cameras, hardware and software	CAMERAEQ	
180355	CARRIER SUPRA UNIT S7	MISCSMEQ	WFA91783696
180356	CARRIER SUPRA UNIT S7	MISCSMEQ	WFA91783702
180357	CARRIER SUPRA UNIT S7	MISCSMEQ	WFA91783711
180358	Romulus Repair	TVTRUCK	
180363	Retrofit Cues Machine	MISCTRUCK	
180381	2019 Freightliner M2 Dump TK	MISCTRUCK	1FVHCYFE9KHKC7431
180388	Trekk360 MH Inspection Kit & Shipping	INVUNIT	23-0309
180389	Trekk360 MH Inspection Kit & Shipping	INVUNIT	23-0309
180390	DOC AFTER TREATMENT & TURBO 142788	TVTRUCK	
180398	Repair on 25842	TVTRUCK	
180399	Repair Schwalm Cutter/Camera	CAMERAEQ	
180400	ENGINE REPLACEMENT #1966	STEAMTRK	2NKHNN7X39M242937
180401	Duomx 2000 Kit w spinner	MISCSMEQ	
180403	Transmission & Core for Truck 27639	STEAMTRK	
180404	Wolverine 2.0 & TV Truck Repair	TVTRUCK	
180405	Unit 180024 TV Truck - VMAC air compressor that is attached to the engine under the hood of the truck. Replaces the VMAC air compressor that came with the truck but was out of warranty. P-Card was the only way to pay for it.	TVTRUCK	
180406	Unit 164570 - transmission - remove, rebuild, and reinstall transmission	MISCTRUCK	
180435	2024 Sure-Trac Tool Trailer	TRAILERS	5JW1C2222R2422658
180440	2018 Mitsubishi GF30N 6K Forklift	FORKLIFT	AF13G01623

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Asset ID	Description	Asset Class	Serial Number
180441	2017 Toyota 8FGU25 5K Forklift	FORKLIFT	8FGU24-79761
180442	2023 Chevy 2500 Flat TK	PUTRUCK	1GB4YLEY8PF231539
180443	2024 Sure-Trac Cargo Trailer	TRAILERS	5JW1C2220R2422657
180448	19 Freightliner Dumb Truck	MISCTRUCK	1FVACWFD2KHKC7512
180482	Easy Kleen Wolverine Dry Steam Generator	GENERATOR	
180483	Easy Kleen Wolverine Dry Steam Generator	GENERATOR	
180484	TRANSMISSION REPAIRS/CLUTCH REPAIRS	MISCTRUCK	
180560	#140662 vmac compressor capex repair	TVTRUCK	
180561	Transmission repair #4009	STEAMTRK	
180562	DRUM REPAIR UNIT 35391	TVTRUCK	
180563	Repair of Unit #140656	VERICURE	
180567	LINE FUEL TANK FOR TRUCK 142829	HEATERTRK	
180568	Repair Unit 28583	JETTRUCK	
180598	16" PIPE BURSTING EXPANDER	MISCSMEQ	
180599	Rebuild Schwalm unit	TVTRUCK	
1829	07 PET 340 6X4 REEFER TK	REEFERTRK	2NPRLZ9X97M732605
1830	01 INT 9100I ROAD TRACTOR	RDTRACTOR	1HSCBAERX1J015273
1832	08 UTL UTIVS48 48FT REEFER TR	TRAILERS	1UYVS34888M495801
1844A	08 INT 4300 TV TR	MISCTRUCK	1HTMMAAM28H680495
1932	CORN PRO 18FT TRAILER	TRAILERS	4MJUG18278E048178
1934	08 COR 18FT TR	TRAILERS	4MJFG23288E048180
1935	08 COR 18FT CORN PRO TR	TRAILERS	4MJUG18298E048179
1937	08 COR 18FT TR	TRAILERS	4MJFG232X8E048181
1966	09 KEN T3 4X2 STEAM TK	STEAMTRK	2NKHNN7X39M242937
1968	09 KEN T300 4X2 STEAM TK	STEAMTRK	2NKHNN7X59M242938
1976	09 UTL TRIAXLE REEFER TR	TRAILERS	1UYVS34819M719301
1979	08 COR TR	TRAILERS	4MJUB18258E048548
1980	08 COR TR	TRAILERS	4MJUB18238E048838
1984	08 LDL TR	TRAILERS	1LH435WH181B16267
1993	05 KEN T800 6X4 REEFER TK	REEFERTRK	1XKDD89X75J078914
2039R	11 KEN T370 STEAM TK	STEAMTRK	2NKHNN7X98M274975
2040R	06 INT 9200 6X4 REEFER TK	REEFERTRK	2HSCEAPR16C289682
2042R	09 INT 4300 SBA 4X2 STEAM TK	STEAMTRK	1HTMMAAN19H105248
24369	94 MAC TRACTOR-RD688S 6X4	RDTRACTOR	1M1P267Y1RM019167
25.33914	CUMMINS ONAN GENERATOR 3200	GENERATOR	
25642	10 DOD RAM 2500 4X4 PICKUP	PUTRUCK	3D7UT2CL6AG189607
25646	10 KNA 11FT SVC BDY/25665	MISCTRUCK	KNA6132D5-1601-SP
25685	10 RYL 7X18 CARGO TR	TRAILERS	5LABE1829AM107117
25694	11 KEN T800 6X4 OTR	RDTRACTOR	1XKDD40X3BJ288883
25723	10 RUS STEAM UNIT/2042R	MISCTRUCK	INV22039
25725	10 COR TR	TRAILERS	4MJUG182XE054014
25726	10 COR GOOSENECK TR	TRAILERS	4MJUG1821AE054015
25826	05 INT 9200 6X4 REEFER	REEFERTRK	3HSCEAPR55N185743

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Asset ID	Description	Asset Class	Serial Number
25842	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMAAL2AH273029
25842A	VEHICLE INTEGRATION	MISCTRUCK	1HTMMAAL2AH273029
25846	10 LVO E&R 30 INVERSION TRAILER	INVUNIT	MVIN333959IND
25968	11 INT 4400 REEFER	REEFERTRK	1HTMSAZR5BH344613
27631	00 INT 8100 6X4 REEFER	REEFERTRK	1HTHCAHR4YH309621
27635	00 INT 4700 4X2 REEFER	REEFERTRK	1HTSCAAM6YH249717
27639	10 KEN T3 4X2 STEAM TK	STEAMTRK	2NKHNN7X7AM261303
27641	11 KEN T370 4X2 STEAM	STEAMTRK	2NKHNN7XXBM281319
27650	04 MAC CX613 6X4 STEAM	STEAMTRK	1M2AE05CX4N017787
27651	10 PET 335 STEAM	STEAMTRK	2NPLHN7X1AM106637
27683	GMC C5500 BOX TRUCK	MISCTRUCK	1GDJ5C1989F408868
27684	08 GMC TV TRUCK-C5500 TV ONLY	TVTRUCK	1GDG5C1958F416824
27685	08 GMC TV TRUCK-C5500 TV ONLY	TVTRUCK	1GDJ5C1968F412528
27717	12 KEN T370 REEFER TK	REEFERTRK	3BKHLN9X1CF303873
27718	08 INT 7400 JET	JETTRUCK	1HTWHAAT98J664971
28417	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	1HTMMAAM7CH610631
28421	11 KEN T3 4X2 STEAM	STEAMTRK	2NKHNN7X5BM286976
28422	NN ING A/C FOR STEAM/1710	MISCTRUCK	417950UHUC48
28583	12 KEN T3 JET TK	JETTRUCK	2NKHNN9X4CM311685
28584	12 KEN T3 JET TK	JETTRUCK	2NKHNN9X6CM311686
28620	KENWORTH T300 2 AX STEAM TRUCK	STEAMTRK	2NKHNN7X7BM286977
28630	11 KSR M100 375 CFM AIR COMP	AIRCOMP	WKA0F1607B4187645
28767	CORNPRO 18' CONFINED SPACE TRL	TRAILERS	4MJUG1829CE056601
28776	UNK DAVIS-STANDARD MARK V 2 1/	MISCSMEQ	
28911	07 INT 9400 6X4 REEFER TK	REEFERTRK	2HSCNSCR27C389254
28912	06 INT 9400I 6X4 REEFER TK	REEFERTRK	2HSCNSCR86C298617
28913	06 INT 9400I 6X4 REEFER TK	REEFERTRK	2HSCNSCR66C298597
28916	12 UTL VS3RA 48FT REEFER TR	TRAILERS	1UYVS3482CM467601
29024	XX SWR JAJ-600R EASEMENT MAC	MISCSMEQ	5337
29027	CUES TV UNIT/28417	MISCTRUCK	
29041	06 INT 9400I ROAD TRACTOR	RDTRACTOR	2HSCNSCR96C292342
29060	11 UNK 36IN INVERSION TR	INVUNIT	MVIN3339881IND
29061	36" BLUE INVERSION UNIT	INVUNIT	MVIN3339857IND
29237	NN UNK 60IN INVERTER	INVUNIT	INVOICE 28666
29238	12 COR 18FT GOOSENECK TR	TRAILERS	4MJFG1822CE056867
29250	12 UNK 36IN INVERSION /29238	INVUNIT	INVOICE 28599
29315	FABRICATED RESIN TANKS	WETOUT	INVOICE 112-28
29316	FABRICATED RESIN TANKS	WETOUT	INVOICE112-28
29335	12 SUL 260 CFM AIR COMP	AIRCOMP	201202270040
29338	12 SUL UTILITY 260CFM AIR COMP	AIRCOMP	201202280050
29472	06 INT 9400I 6X4 REEFER TK	REEFERTRK	2HSCNSCR26C298595
29564	13 INT 4300 TV/CUT RE: 2012	TVTRUCK	1HTMMAAM7DH237219
29809	12 INT 4400 4X2 STEAM	STEAMTRK	1HTMKAAN7CH085939

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Asset ID	Description	Asset Class	Serial Number
29811	INTERNATIONAL 4300 UV CURE TRK	MISCTRUCK	1HTMMAAM4DH307839
29946	12 UNK RESIN STATIC MIXER	WETOUT	
30003	13 INT 4400 6X4 REEFER TK	REEFERTRK	1HTMSAZRXDH332637
30817	12 TRY-TEK WATER INVERS UNIT	INVUNIT	9-00107
30819	NN UPGRADED POWER NIP ROLLER	CONVEYORS	
30853	12 CUE OZII CAMERA	CAMERAEQ	12080603
30857	13 SRC 79INX18FT TR	TRAILERS	5JW1U1828D1069551
30858	13 SRC 8X22FT TR	TRAILERS	5JW1C2123D2069552
30860	13 SRC 81INX22FT TR	TRAILERS	5JW3U2239D1070028
30864	12 FRL HOT SHOT HS2000A JET TK	JETTRUCK	1FVHC3BS0CHBN0746
30874	12 SUL 375CFM A/C 4008	AIRCOMP	201211150043
30884	NN HUR STEAM UNIT/1704	MISCTRUCK	INV HERCULES 21255932D
30885	NN HUR STEAM UNIT/1705	MISCTRUCK	INV HERCULES 21535921D
31052	12 FRL M2107V HOT SHOT VAC CON	MISCTRUCK	1FVHC3BS4CHBN0748
31116	13 FOR F450 FLATBED TK	PUTRUCK	1FD0W4HT3DEA61965
31121	13 FOR F350 4X4 FLATBED TK	PUTRUCK	1FD8W3HT6DEA56868
31122	13 FOR F350 4X4 FLATBED TK	PUTRUCK	1FD8W3HT4DEA56867
31128	FORD F350 CREW CAB 4X4 UTILITY	PUTRUCK	1FT7W3BTXDEA56865
31146	13 INT 4300 BAG HAULER	MISCTRUCK	1HTJTSKM2DH301550
31204	01 UTL VS2R REEFER TR	TRAILERS	1UYVS24811M321603
31216	13 COR UT18H TR	TRAILERS	4MJUB1825PE059527
31222	13 GRN XP CAMERA SEWER MODULE	CAMERAEQ	
31896	13 ENV HALOPTIC-24 CAMERA	CAMERAEQ	2000326
31949	14 SRC ST10225 8.5X25 DUMP TR	TRAILERS	5JW3U2522E3083809
31950	14 SRC GOOSENECK TR	TRAILERS	5JW3U2529E3083810
31955	XX SAE UV EQUIPMENT	MISCTRUCK	
32157	14 UNI 8.5X16FT CARGO TR	TRAILERS	56JTE1622EA136496
32158	13 SRC 16FT UTILITY TR /28630	TRAILERS	5JW1U162XE1085447
32164	14 SRC GOOSENECK UTIL TR	TRAILERS	5JW3U2524E3089370
32353	07 INT 9400 REEFER TK	REEFERTRK	2HSCNAPR77C528721
32726	07 INT 9200 OTR	RDTRACTOR	2HSCEAPR77C415982
32746	XX CUE RETRO TV U 1649 REPAIR	MISCTRUCK	
32789	14 UNI 8.5X20FT HD TR	TRAILERS	56JTE2026EA139870
32800	14 UNI 8.5X20FT TR	TRAILERS	56JTE202XEA139869
32848	14 CUE RETRO REPAIR/1707	MISCTRUCK	
32870	14 PIP DTS CONTROLLER	WETOUT	
32881	98 UTL VS2RA REEFER TR	TRAILERS	1UYVS2483WM502807
32924	05 UTL VS2RA 48FT REEFER TR	TRAILERS	1UYVS24825FM540902
32925	UTILITY 48' REEFER TRAILER	TRAILERS	1UYVS24845M540903
33006	14 CUE RETRO TV UNIT 1708	MISCTRUCK	
33067	05 INT 9200I REEFER TK	REEFERTRK	2HSCEAPR75C159002
33124	08 INT 4400 STEAM TK	STEAMTRK	1HSMKAZNX8H535664
33125	06 INT 7600 JET TK	JETTRUCK	1HTWYSBT46J343597

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Asset ID	Description	Asset Class	Serial Number
33127	07 INT 8600 ROAD TRACTOR	RDTRACTOR	1HSHXHR87J482364
33272	15 PRB INVERSION TR	INVUNIT	MVIN356141IND
33284	15 CUE OZ2 CAMERA	CAMERAEQ	15022301
33288	15 CUE OZ2 CAMERA	CAMERAEQ	15022302
33293	15 FRL 114SD VACCON JET TRUCK	JETTRUCK	1FVHG3CY0FHGC7358
33298	15 HMD ASM INVERSION TR	TRAILERS	MVIN356331IND
33313	15 CUE PIPE RANGER TRANSPORTER	CAMERAEQ	15033001
33703	15 DOD 1500 QUAD CAB 4X4	PUTRUCK	1C6RR7FT6FS689974
33712	08 INT 9200I REEFER TK	REEFERTRK	2HSCEAPR28C677877
33713	07 INT 9200I REEFER TK	REEFERTRK	2HSCEAHR77C501713
33723	14 LIV C2K CUTTER	CAMERAEQ	K003
33724	14 LIV C2K CUTTER	CAMERAEQ	K004
33730	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	3HAMMMMM8FL662667
33730A	VEHICLE INTEGRATION	MISCTRUCK	3HAMMMMM8FL662667
33733	15 CUE PIPE SHORTY TRANSPORTER	CAMERAEQ	15031902
33756	15 FOR F350 CREW XL 4X4	PUTRUCK	1FT7W3BT9FED56786
33757	15 FOR F350 CREW XL 4X4	PUTRUCK	1FT7W3BTXFED56781
33877	14 CUE PIPE TANFER TRANSPORTER	CAMERAEQ	15033002
33878	14 CUE ULTRA SHORTY TRANSPORT	CAMERAEQ	15050705
33881	15 DOD 2500 CREW 4X4 DIESEL	PUTRUCK	3C6UR5HL4FG650741
34049	HINO 338 UV CURE TRUCK	MISCTRUCK	5PVNN8JT1G4S54043
34050	FREIGHTLINER M2 TV/CUTTER	TVTRUCK	1FVACWDT08HAA7307
34050A	VEHICLE INTEGRATION	MISCTRUCK	1FVACWDT08HAA7307
34051	FREIGHTLINER M2 RAVEN TRUCK	MISCTRUCK	1FVACWDC67HY11255
34052	09 PET 386 REEFER TRUCK	MISCTRUCK	1XPHD49X39D788517
34053	09 PET 386 REEFER TRUCK	MISCTRUCK	1XPHD49X99D781040
34054	07 INT 9200I REEFER TRUCK	MISCTRUCK	2HSCEAPR27C415985
34900	09 INT 9200I REEFER TRUCK	MISCTRUCK	2HSCEAHR39C070662
34901	16 UNI 8.522TA70 ENCLOSED TR	TRAILERS	56JTE2227GA145984
34905	16 PRB 36 BLUE INVERTER	INVUNIT	MVIN357704IND
34981	09 PET 386 REEFER TRUCK	MISCTRUCK	1XPHD49X09D780181
34982	13 KEN T800 REEFER TK	REEFERTRK	1XKDD40X8DJ349986
34983	09 INT PROSTAR REEFER TRUCK	MISCTRUCK	3HSCUAPRX9N126390
34984	09 INT PROSTAR REEFER TK	REEFERTRK	2HSCUAPR19C091837
34987	05 YAL GLP080 FORKLIFT	FORKLIFT	E813V03994C
34994	INTERNATIONAL 4300 TV/CUTTER	TVTRUCK	3HAMMMML8EL034341
35001	12 FOR F650 WOLVERINE	TVTRUCK	3FRNF6FBXCV467151
35007	RETROFIT TV TRUCK-2015	MISCTRUCK	
35008	15 CUE SHORTY 21 TRANSPORTER	CAMERAEQ	15082101
35009	15 CUE OZ2 CAMERA	CAMERAEQ	15082102
35010	15 CUE PIPE RANGER TRANSPORT	CAMERAEQ	15070201
35011	15 CUE OZ2 CAMERA	CAMERAEQ	15060805
35012	15 CUE OZ2 CAMERA	CAMERAEQ	15060904

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Asset ID	Description	Asset Class	Serial Number
35014	15 CUE OZ2 CAMERA	CAMERAEQ	15080401
35016	15 CUE ULTA SHORTY TRANSPORTER	CAMERAEQ	15062401
35019	15 FAB 36IN BLUE INVERTER TR	INVUNIT	MVIN358959IND
35023	15 ARI PE2620 CAMERA	CAMERAEQ	15087305
35024	15 ARI PE2620 CAMERA	CAMERAEQ	15087306
35025	15 ARI TR2000 TRANSPORTER	CAMERAEQ	
35026	15 ARI CT200 RAPTOR CUTTER	CAMERAEQ	14055191
35027	15 ARI CT200 RAPTOR CUTTER	CAMERAEQ	14008484
35029	15 CUE CT2200 PR TRANSPORTER	CAMERAEQ	15082602
35030	15 CUE SHORTY 21 TRANSPORTER	CAMERAEQ	15083105
35033	FORD F550 TV/CUT	TVTRUCK	1FDUF5GT3FEC03811
35035	16 UNI UXT 22' CARGO TR	TRAILERS	56JTE222XGA147213
35048	15 PET 348 VAC-CON JET/VAC	JETTRUCK	2NP3LJ0X2FM250609
35063	RESIN STORAGE TANK	WETOUT	
35064	RESIN STORAGE TANK	WETOUT	
35082	16 KEN T370 STEAM TRUCK	STEAMTRK	2NKHMM7X9GM494960
35083	16 FRL 114SD VACCON JET TK	JETTRUCK	1FVHG3CY5GHHA0662
35111	15 CUES OZ2 CAMERA	CAMERAEQ	15101903
35112	15 CUE SHORTY 21 TRANSPORTER	CAMERAEQ	15092904
35119	15 ARI RAPTOR CUTTER	CAMERAEQ	15107496
35120	15 ARI RAPTOR CUTTER	CAMERAEQ	15107433
35121	15 CUE PIPE KANGAROO CUTTER	CAMERAEQ	15061502
35122	15 CUE PIPE KANGAROO CUTTER	CAMERAEQ	15061503
35123	15 ARI WOLVERINE CUTTER	CAMERAEQ	270097
35124	15 ARI WOLVERINE CUTTER	CAMERAEQ	270099
35130	16 FOR F350 CREW 4X4 XL	PUTRUCK	1FT7W3BT9GEB25551
35148	15 HMD CHIP SHOOTER TR	INVUNIT	MVIN359677IND
35149	15 OZ2 CAMERA	CAMERAEQ	15101203
35150	15 OZ2 CAMERA	CAMERAEQ	15102202
35151	15 CUE SHORTY 21 TRANSPORTER	CAMERAEQ	15082801
35152	15 CUE SHORTY 21 TRANSPORTER	CAMERAEQ	15102603
35153	15 CUE PIPE RANGER TRANSPORTER	CAMERAEQ	15102302
35237	15 ARI TRUCK RETRO 18' BOX	MISCTRUCK	
35240	16 GGS HEATER TRAILER	TRAILERS	3DG1P4754GG000359
35244	15 ARI BOX TV SYSTEM/35001	MISCTRUCK	
35245	15 ARI PE2620 CAMERA	CAMERAEQ	PE262015117571
35261	15 ARI TR2000 TRANSPORTER	CAMERAEQ	15056086
35269	15 CUE BOX TV SYSTEM/2643	MISCTRUCK	
35270	15 ARI PE2620 CAMERA	CAMERAEQ	262015026392
35287	15 ARI UV TV SYSTEM/34049	MISCTRUCK	
35318	16 CUE PIPE RANGER TRANSPORTER	CAMERAEQ	16021804
35319	16 CUE PIPE RANGER TRANSPORTER	CAMERAEQ	16021805
35326	15 CUE BOX TV SYSTEM	MISCTRUCK	

**Inliner Solutions, LLC
Equipment List**

Asset ID	Description	Asset Class	Serial Number
35329	07 ING P185GWJD	AIRCOMP	384759UDRB34
35331	08 ING P185WJD	AIRCOMP	402693UFSD08
35334	16 CUE KANGAROO CUTTER	CAMERAEQ	16012501
35335	16 CUE KANGAROO CUTTER	CAMERAEQ	16010802
35336	16 CUE KANGAROO CUTTER	CAMERAEQ	16012502
35337	16 CUE OZ2 CAMERA	CAMERAEQ	16011401
35338	16 CUE OZ2 CAMERA	CAMERAEQ	16030903
35339	16 ARI PE 2620 CAMERA	CAMERAEQ	16027960
35340	16 ARI PE 2620 CAMERA	CAMERAEQ	16027864
35371	13 SRC UTIL TR	TRAILERS	5JW3U2522D3073215
35372	KENWORTH T300 TOOL TRUCK	MISCTRUCK	2NKMHZ6X37M164227
35377	CATALYST HEATING UNIT	WETOUT	
35378	CATALYST HEATING UNIT	WETOUT	
35386	17 UNI UXT-8.522TA70 22' TR	TRAILERS	56JTE222XHA150680
35388	17 UNI UXT-8.522TA70 22' CARGO	TRAILERS	56JTE2221HA150681
35389	17 UNI UXT-8.522TA70 22' CARGO	TRAILERS	56JTE2223HA150682
35390	PETE 337 TV/CUTTER	TVTRUCK	2NP2HN6X5CM141701
35390A	VEHICLE INTEGRATION	MISCTRUCK	2NP2HN6X5CM141701
35391	12 PET 337 WOLVERINE	TVTRUCK	2NP2HN6X7CM141702
35393	INTERNATIONAL 4300 UV CURE TRK	MISCTRUCK	1HTMMMMN1HH635635
35394	16 KEN T800 GEN II HEAT TK	HEATERTRK	3BKDL40X2GF498216
35395	16 USJ 1018 JET MOUNTED TR	JETTRUCK	1U9FS1628GA044571
35396	CATALYST HEATING UNIT	WETOUT	
35400	16 TRY-TEK E22 INVERSION UNIT	INVUNIT	
35401	16 FOR F350 XL CREW 4X4	PUTRUCK	1FT7W3BT2GED14655
35405	16 FOR F350 XLT CREW LB 4X4	PUTRUCK	1FT7W3BTXGED14659
35407	16 FOR F150 XLT CREW 4X4	PUTRUCK	1FTEW1EF1GKE77588
35408	16 FOR TRUCK-F150 XLT CREW 4X4	PUTRUCK	1FTEW1EF3GKE77589
35409	16 FOR F150 XLT CREW 4X4	PUTRUCK	1FTEW1EFXGKE77590
35410	16 FOR F150 XLT CREW 4X4	PUTRUCK	1FTEW1EF1GKE77591
35412	16 FOR F150 XLT CREW 4X4	PUTRUCK	1FTEW1EF5GKE77593
35413	16 FOR F550 CREW 4X4 FLATBED	PUTRUCK	1FD0W5HTXGED27878
35416	16 HIN 155-16 PARTS TK	MISCTRUCK	JHHUDM1HXGK001959
35426	17 HIN 195 TV/CUT	TVTRUCK	JHHHDM2H1HK002290
35427	09 INT 8600 REEFER TRUCK	MISCTRUCK	1HSHXahr89J040039
35428	17 HIN 258 WOLVERINE	TVTRUCK	5PVNJ8JT3H4S57622
35429	16 KEN T880 GEN II HEAT TK	HEATERTRK	1NKZLP0X6HJ151921
35437	17 HIN 195 TV/CUT	TVTRUCK	JHHHDM2H7HK002133
35439	16 CUE OZ2 CZ300 CAMERA	CAMERAEQ	16070804
35440	16 CUE OZ2 CZ300 CAMERA	CAMERAEQ	16070805
35441	16 CUE WT360 PIPE RNG TRANSPOR	CAMERAEQ	16052705
35456	16 ARI WOLVERINE CUTTER	CAMERAEQ	270100
35457	16 ARI WOLVERINE CUTTER	CAMERAEQ	270109

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Asset ID	Description	Asset Class	Serial Number
35458	16 ARI PE2620 CAMERA	CAMERAEQ	16048125
35461	15 LIV C2K CUTTER	CAMERAEQ	
35462	15 LIV C2K CUTTER	CAMERAEQ	K-006
35470	16 ARI PE2620 CAMERA	CAMERAEQ	16048126
35471	16 ARI TR2000 TRANSPORTER	CAMERAEQ	16068342
35493	17 HIN 258 TV/CUT	TVTRUCK	5PVNJ8JN6H4S52612
35508	17 FRL 108SD JET TRUCK	JETTRUCK	1FVHG5CY8HHJB1440
35509	17 FRL 108SD JET TRUCK	JETTRUCK	1FVHG5CYXHHJB1441
35522	16 FRL 114SD JET TRUCK	JETTRUCK	1FVHG3CY4GHHC2751
35523	16 FRL 114SD JET TRUCK	JETTRUCK	1FVHG3CYGGHHC2752
35524	17 UNI UXT-8.524TA70 24' CARGO	TRAILERS	56JTE2425HA152446
35525	17 UNI UXT-8.522TA70 22' CARGO	TRAILERS	56JTE2223HA152562
35536	15 CUE KANGAROO CUTTER	CAMERAEQ	15091001
35537	15 CUE KANGAROO CUTTER	CAMERAEQ	15091002
35547	16 FOR T150 MANHOLE ONLY	PUTRUCK	1FTYE1ZM6GKA28738
35561	13 VOL VNL64T300 REEFER	REEFERTRK	4V4NC9EG4DN568904
35562	13 VOL VNL64T300 REEFER	REEFERTRK	4V4NC9EG7DN568900
35563	17 HIN 258 WOLVERINE	TVTRUCK	5PVNJ8JPXH4S51819
35564	17 HIN 258 WOLVERINE	TVTRUCK	5PVNJ8JP7H4S51809
35571	11 INT PROSTAR REEFER	REEFERTRK	3HSCUAPR9BN186540
35572	11 INT PROSTAR REEFER	REEFERTRK	3HSCUAPR4BN186333
35582	17 SRC 8.5X22HD TRAILER	TRAILERS	5JW1C2229H2153878
35587	16 ARI CT2200 RAPTOR CUTTER	CAMERAEQ	16098744
35588	16 ARI CT2200 RAPTOR CUTTER	CAMERAEQ	16098747
35590	16 CUE PIPE RANGER TRANSPORTER	CAMERAEQ	16091905
35598	16 KEN T370 STEAM TRUCK	STEAMTRK	2NKHMM7X3GM122062
35599	17 KEN T880 GEN II HEAT TK	HEATERTRK	1NKZLP0X7HJ162779
35621	16 CUE OZ2 CAMERA	CAMERAEQ	16100302
35622	16 CUE OZ2 CAMERA	CAMERAEQ	16100301
35623	16 CUE OZ2 CAMERA	CAMERAEQ	161305
35625	NN HHD HG12 WINCH(RED)	MISCLGEQ	912-3550 (U)
35634	16 ARI CT4000 LG CUTTER WOLVER	CAMERAEQ	400095
35638	16 FRL JET TK	JETTRUCK	1FVHG3XYXGHHC2754
35647	16 ARI WOLVERINE CUTTER	CAMERAEQ	270108
35648	16 ARI WOLVERINE CUTTER	CAMERAEQ	270110
35649	16 ARI 2620 CAMERA	CAMERAEQ	16068439
35650	16 ARI 2620 CAMERA	CAMERAEQ	16068441
35651	16 ARI TR2000 TRANSPORTER	CAMERAEQ	16088606
35657	16 ARI TV BOX/35391	MISCTRUCK	
35688	16 ARI TV BOX/35428	MISCTRUCK	
35691	99 UTL 1UY SE REEFER TR	TRAILERS	1UYVS2488XM806006
35695	RAM 5500 CREWCAB 4X4 SB/CRANE	PUTRUCK	3C7WRNFLXHG541453
35697	17 DOD 2500 CREW 4X4	PUTRUCK	3C6UR5HL3HG581754

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Asset ID	Description	Asset Class	Serial Number
35698	RAM 2500 CREW CAB 4X4	PUTRUCK	3C6UR5HL0HG581758
35700	17 FOR F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT4HEB92575
35701	17 FOR F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT2HEB92574
35702	17 FOR F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT8HEB92577
35704	17 FOR F350 CREW XLT 4X4 UTIL	PUTRUCK	1FT7W3BT6HEB92576
35705	17 FOR F350 CREW XLT 4X4 FLAT	PUTRUCK	1FD7W3FTXHEC03102
35706	17 FOR F350 CREW XL 4X4 FLAT	PUTRUCK	1FD7W3FT1HEC03103
35710	17 DOD 2500 CREW 4X4	PUTRUCK	3C6UR5HL5HG581755
35711	17 DOD 2500 CREW 4X4	PUTRUCK	3C6UR5HL7HG581756
35715	17 FOR F350 CREW XL 4X4	PUTRUCK	1FT7W3BT9HEB92572
35728	17 SRC 30' DECK INVERSION TR	TRAILERS	5JW3U3022H3160616
35746	17 CUE KANGAROO CUTTER	CAMERAEQ	16101302
35747	17 CUE KANGAROO CUTTER	CAMERAEQ	16110401
35803	16 CUE TV BOX RESTOR/35493	MISCTRUCK	
35804	16 CUE TV BOX RESTOR/35426	MISCTRUCK	
35805	16 PRB 36" INVERTER TR	INVUNIT	MVIN364125IND
35806	16 PRB 36" INVERTER TR	INVUNIT	MVIN364126IND
35861	17 ARI ARIES WOLVERINE CUTTER	CAMERAEQ	270111
35862	17 ARI ARIES WOLVERINE CUTTER	CAMERAEQ	270114
35863	17 ARI ARIES WOLVERINE CAMERA	CAMERAEQ	410444N
35864	17 ARI ARIES WOLVERINE CAMERA	CAMERAEQ	410459N
35865	17 ARI ARIES PE2620 CAMERA	CAMERAEQ	17019092
35866	17 ARI ARIES PE2620 CAMERA	CAMERAEQ	17019093
35867	17 ARI ARIES TR2000 TRNSPRT	CAMERAEQ	17019198
35868	17 ARI ARIES TR2000 TRNSPRT	CAMERAEQ	16088701
35871	17 ARI ARIES PE 2620 CAMERA	CAMERAEQ	16108886
35873	17 ARI ARIES PE 2620 CAMERA	CAMERAEQ	16108880
35874	17 ARI WOLVERINE CAMERA	CAMERAEQ	410461N
35875	17 ARI WOLVERINE CAMERA	CAMERAEQ	410451N
35876	17 ARI WOLVERINE CUTTER	CAMERAEQ	270112
35877	17 ARI WOLVERINE CUTTER	CAMERAEQ	270103
35880	11 TOY 7FGCU70 FORKLIFT	FORKLIFT	70722 U1566-1216
35882	17 FRL 108 SD JET TRUCK	JETTRUCK	1FVHG5CY4HHJD9378
35883	17 FRL 114 SD VAC TRUCK	MISCTRUCK	1FVHG3CY6HHJB5698
35884	17 FRL 114 SD VAC TRUCK	MISCTRUCK	1FVHG3CY8HHJB5699
35885	17 ONA GENSET CM 7.5 CAP RPR	MISCTRUCK	L160124746
35915	11 INT LONESTAR ROAD TRACTOR	RDTRACTOR	1HSCXAPR5BJ232455
35934	15 INT 9000 ROAD TRACTOR	RDTRACTOR	3HSDMAPR3FN667362
35979	07 INT 5900I HEATER TRUCK	HEATERTRK	1HSXRSBT97J430399
35981	09 TCT DTL STEP DECK TRAILER	TRAILERS	1TTE5120191085811
36033	17 ONA 7.5 GENSET/1708	MISCTRUCK	L160130897
36046	17 CUE KANGAROO CUTTER	CAMERAEQ	17051758
36047	17 CUE KANGAROO CUTTER	CAMERAEQ	17051757

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
36051	18 KEN T880 RUSH GEN II HEATER	HEATERTRK	1NKZLK0X9JJ187773
36089	17 ONA 7.5 HD GENERATO/1707	MISCTRUCK	
36128	17 ARI WOLVERINE TV BOX/35563	MISCTRUCK	
36132	17 ARI WOLVERINE TV BOX/35564	MISCTRUCK	
36133	17 CUE TV INTER EQUIP/35437	MISCTRUCK	
36134	17 CUE LS2610 UV/34049	MISCTRUCK	
36135	17 CUE LS2610 UV/35393	MISCTRUCK	
36147	17 LOG 201L LAT PACKER 8.5-12"	MISCSMEQ	
36148	17 LOG 201L LAT PACKER 12-15"	MISCSMEQ	
36150	17 TRY-TEK EZ2 STANDALO INVERS	INVUNIT	3209-2017-002
36184	17 ARI WOLVERINE CAMERA	CAMERAEQ	410418N
36185	17 ARI WOLVERINE CAMERA	CAMERAEQ	410462N
36230	18 UNI UXT-8.522TA70 TOOL TR	TRAILERS	56JTE2221JA158432
36231	15 DOD 3500 REG 4WD FLAT	PUTRUCK	3C7WRTBL7FG610431
36245	07 GRD 48X102 REEFER TRAILER	TRAILERS	1GRAA96237W705094
36252	17 FOR F350 CREW XL 4WD UTIL	PUTRUCK	1FD7W3FT7HEE27217
36254	17 CUE TRANSPORTER-PIPE RANGER	CAMERAEQ	17072596
36255	17 CAS 588H FORKLIFT	FORKLIFT	JJGN580HCHC738657
36258	05 MAC CV713 BOILER TK	HEATERTRK	1M2AG11Y05M016947
36259	09 INT 4400 REEFER TK	REEFERTRK	3HTMSAAR89N040185
36260	FORD F550 TV/CUTTER	TVTRUCK	1FDUF5GT2DEB36521
36263	FORD F350 CREW CAB 4X4 UTILITY	PUTRUCK	1FD8W3HT1FEA72057
36264	18 FRL 114SD VAC TRUCK	MISCTRUCK	1FVHG3FE6JHJB5739
36265	15 FOR F350 FB 4X4 C/C DUALY	PUTRUCK	1FD8W3HTXFEA72056
36266	16 TRY-TEK INVERSION UNIT	INVUNIT	00100
36267	17 FRL 114SD JET TRUCK	JETTRUCK	1FVHG3CYXHHJB5736
36268	17 SCG 24' BOX TRAILER	TRAILERS	54GVC24T1H7024936
36309	04 INT 7600 UV DEPLOYMENT	MISCTRUCK	1HTWXAHTX4J034072
36376	17 FOR F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT9HEE85663
36402	17 TTC DIAGNOSTIC CF30	MISCSMEQ	
36412	17 FOR F650 TV/CUT TK	TVTRUCK	1FDWF6DE7HDB07838
36417	17 ARI CAMERA-PE2620	CAMERAEQ	17080068
36418	17 ARI CAMERA-PE2620	CAMERAEQ	17080069
36419	17 ARI TRANSPORTER-TR2000	CAMERAEQ	17080029
36420	17 ARI TRANSPORTER-TR2000	CAMERAEQ	17080027
36433	17 RUS GEN II HEATER/35979	MISCTRUCK	
36439	17 CUE TRANSPORTER-PIPE RANGER	CAMERAEQ	17100236
36447	18 PJT TJ202 TILT TRAILER	TRAILERS	4P5TJ2029J3030241
36448	17 FAB 60" INVERSION PLATFORM	INVUNIT	
36455	ONAN 7.5HDKAT GENSET/1844	MISCTRUCK	F170195743
36456	17 ARI 36"-48" UV CANS	CAMERAEQ	388053
36458	17 MIL BOBCAT 200 WELDER	MISCSMEQ	MILLER907706
36512	17 ARI UV LIGHT TRAIN/34049	CAMERAEQ	LQ1000144-P12

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
36523	17 UNK CONFINED SPACE ENTRY SY	MISCSMEQ	
36530	UNITED CARGO 22' TOOL TRAILER	TRAILERS	56JTE222XJA161037
36549	18 SRC TRAILER-25'+5'HD DCKOVR	TRAILERS	5JW3U3025J3214397
36550	17 FOR F350 CREW XL 4X4	PUTRUCK	1FT7W3BT0HEE85664
36551	17 FOR F350 CREW XL 4X4	PUTRUCK	1FT7W3BT2HEE85665
36552	17 TOY FORKLIFT-8FG45U	FORKLIFT	11500
36555	SULLAIR COMPRESSOR-185CFM	AIRCOMP	201710250021
36571	17 ARI UV LIGHT TRAIN	CAMERAEQ	
36576	17 LBJ CUTTER-300C SERIES8 21"	CAMERAEQ	900
36598	17 KUB SKID STEER-SVL75	BACKHOE	32866
36599	17 PLD BRUSH HOG-GSS72	MISCSMEQ	481202
36600	17 PLD HARLEY RAKE-LAF5672H	MISCSMEQ	1741041
36606	17 ARI TV BOX SYSTEM/36412	MISCTRUCK	
36607	17 CUE CUTTER	CAMERAEQ	
36608	17 CUE CUTTER	CAMERAEQ	
36639	17 ARI CAMERA KIT	CAMERAEQ	
36708	17 CUE KANGAROO CUTTER	CAMERAEQ	17103129
36709	18 CUE TRANSPORTER PIPE RANGER	CAMERAEQ	18012577
36710	18 CUE TRANSPORTER PIPE RANGER	CAMERAEQ	18012578
36712	18 UNI TRAILER 20' CARGO	TRAILERS	56JTE2226JA161634
36733	18 CUE TRANSPORTER PIPE RANGER	CAMERAEQ	18022780
36734	18 TRY-TEK CUTTER	CAMERAEQ	9-1235
36742	18 FOR TRUCK F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT6JEB84046
36743	18 FOR TRUCK F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT4JEB84045
36744	18 FOR TRUCK F350 XL 4X4	PUTRUCK	1FD7W3FTXJEB84041
36745	18 FOR TRUCK F350 XL 4X4	PUTRUCK	1FD7W3FT1JEB84042
36746	18 FOR TRUCK F350 XL 4X4	PUTRUCK	1FD7W3FT3JEB84043
36747	18 FOR TRUCK F350 XLT 4X4	PUTRUCK	1FD7W3FT3JEB72944
36748	18 FOR TRUCK F350 XLT 4X4	PUTRUCK	1FD7W3FT5JEB72945
36749	18 FOR TRUCK F350 XLT 4X4	PUTRUCK	1FD7W3FT7JEB72946
36819	18 CUE TEST STATION-WOLVERINE	CAMERAEQ	381116
36820	18 PRO CUTTER	CAMERAEQ	400099
36830	CATALYST HEATING UNIT	WETOUT	
36858	18 TRY-TEK INVERSION UNIT	INVUNIT	
36873	18 CUE KANGAROO CUTTER	CAMERAEQ	18051630
36874	18 CUE KANGAROO CUTTER	CAMERAEQ	18051631
36875	18 CUE KANGAROO CUTTER	CAMERAEQ	18051096
36936	18 FRL 114SD JET TK	JETTRUCK	1FVHG3FE9JHJS1331
36940	GENAIR GENERATOR COMBO 70 CFM	GENERATOR	2JE3732
36941	18 CUE KANGAROO CUTTER	CAMERAEQ	18052184
36942	GENAIR GENERATOR COMBO 70 CFM	GENERATOR	
36960	18 FRL TRUCK-114SD JET	JETTRUCK	1FVHG3FE0JHJS1332
36966	18 FOR TRUCK F350 CREW XL 4X4	PUTRUCK	1FT7W3BT7JEC10007

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
36967	18 FOR TRUCK F350 CREW XLT 4X4	PUTRUCK	1FT7W3BT5JEC10006
36968	FORD TRUCK F350 CREW CAB 4X4	PUTRUCK	1FT7W3BT9JEC10008
36969	18 FOR TRUCK F350 CREW XL 4X4	PUTRUCK	1FT7W3BT0JEB64097
36978	18 ONA GENERATOR 10HDKAG	MISCTRUCK	B180305264
36980	18 MIL WELDER BOBCAT 200	MISCSMEQ	
36997	18 CUE CUTTER-KANGAROO	CAMERAEQ	18062937
37023	18 LIV CUTTERS-LATERAL CK2	CAMERAEQ	K-005
37024	18 PTS-STEAM PACKER 48"	MISCSMEQ	
37027	18 PTS-STEAM PACKER 60"	MISCSMEQ	
37029	18 ONA GENERATOR 7.5 HD	MISCTRUCK	1HTMMAAM7DH237219RPR
37038	18 FOR TRUCK-F150 CREW XL4X4	PUTRUCK	1FTEW1EP4JKE08538
37039	FORD F150 CREW CAB 4X4	PUTRUCK	1FTEW1EP6JKE08539
37048	18 FRL 114SD VACK TK	PFMTRUCK	1FVHG3FE1KHKC3106
37049	HINO 338 UV CURE TRUCK	MISCTRUCK	5PVNV8JV9K4S58853
37050	15 PET ROAD TRACTOR-579	RDTRACTOR	1XPBDP9X6FD265365
37051	HINO 268A TV/CUTTER	TVTRUCK	5PVNJ8JV5K4S73216
37051A	VEHICLE INTEGRATION	MISCTRUCK	5PVNJ8JV5K4S73216
37052	19 HIN TV/CUT TK	TVTRUCK	JHHRDM2HXKK007094
37053	NN SWR EASEMENT MACHINE-600 WH	MISCSMEQ	7049
37054	NN SWR EASEMENT MACHINE-600 WH	MISCSMEQ	7380
37056	15 PET ROAD TRACTOR-579	RDTRACTOR	1XPBDP9X8FD265366
37059	18 CUE CUTTER - KANGAROO	CAMERAEQ	18072037
37060	18 CUE CUTTER - KANGAROO	CAMERAEQ	18072035
37064	18 UNK REPAIR INJECTOR/1943	MISCTRUCK	2NKHLN9X19M238879-RPR1
37089	18 ONA REPAIR GENERATOR	MISCTRUCK	1GDE5C1216F416522-RPR1
37105	09 KEN T370 REEFER TK	REEFERTRK	2NKHLN9X89M238880
37106	18 TRY INVERSION UNIT-WAT/AIR	INVUNIT	9-00800
37589	18 SUL AIR COMP 185 CFM	AIRCOMP	201807120113
37590	18 SUL AIR COMP 185 CFM	AIRCOMP	201807120115
37591	18 SUL AIR COMP 185 CFM	AIRCOMP	201807120111
37597	19 HIN 195 TV/CUT TK	TVTRUCK	JHHRDM2H8KK007286
37598	FORD F650 CUES SP CUTTER TRUCK	TVTRUCK	1FDWF6DC2JDF02675
37599	19 FOR TRUCK F550 TV/CUT/GROUT	TVTRUCK	1FDUF5GT2KEC16530
37600	KENWORTH T370 STEAM TRUCK	STEAMTRK	2NKHHN7X8CM311841
37628	18 CUE CUTTER - KANGAROO	CAMERAEQ	18101027
37629	18 CUE CUTTER - KANGAROO	CAMERAEQ	18101028
37630	18 CUE CUTTER - KANGAROO	CAMERAEQ	18101029
37631	18 CUE CUTTER - KANGAROO	CAMERAEQ	18101030
37634	18 SUL AIR COMP 375 CFM	AIRCOMP	201809270046
37635	18 SUL AIR COMP 375 CFM	AIRCOMP	201809270011
37636	18 SUL AIR COMP 375 CFM (SKID)	AIRCOMP	20180080074
37637	18 HHD WINCH HG12	MISCLGEQ	HG12
37638	18 ONA GENERATOR 7.5 HDKAT	MISCTRUCK	D1803455544

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
37666	19 SRC TRAILER-7X 14 HC CARGO	TRAILERS	5JW1C1429K2242932
37667	18 UNI TRAILER-8.5X22 HD TOOL	TRAILERS	56JTE2227KA166794
37668	18 SUL AIR COMPRESSOR 375HAF	AIRCOMP	201810120051
37671	FORD F150 SUPERCAB	PUTRUCK	1FTEX1CP3JKE08367
37672	18 UNK REPAIR-ENGINE	MISCTRUCK	1HTWHAATX5J205654-RPR1
37676	18 UNK REPAIR-REPLACE TURBO	MISCTRUCK	1XKDD40X8DJ349986-RPR1
37678	18 UNK REPAIR-VACUUM PUMP	MISCTRUCK	RPR2
37679	18 UNK REPAIR-ENGINE	MISCTRUCK	2NKHNN7X0BM274993RPR1
37681	18 UNK REPAIR-ENGINE	MISCTRUCK	2FZACGCS06AW18999-RPR1
37694	19 FOR TRUCK F550 FLAT BED	MISCTRUCK	1FD0W5HT9KEC92212
37695	19 FOR F350XLT C/C 4X4 TK	PUTRUCK	1FT7W3BT4KEC92201
37696	19 FOR F350 XLT C/C 4X4 TK	PUTRUCK	1FT7W3BT6KEC92202
37697	19 FOR F350XLT C/C 4X4 TK	PUTRUCK	1FT7W3BT8KEC92203
37700	19 FOR F350 XLT C/C 4X4 TK	PUTRUCK	1FT7W3BTXKEC92204
37701	19 FOR F350 XLT C/C 4X4 TK	PUTRUCK	1FT7W3BT1KEC92205
37702	19 FOR F350 XLT C/C 4X4 TK	PUTRUCK	1FT7W3BT3KEC92206
37703	19 FOR F350 XLT C/C 4X4 TK	PUTRUCK	1FD7W3FT8KEC92207
37704	19 FOR TRUCK F350 XLT C/C 4X4	PUTRUCK	1FD7W3FTXKEC92208
37707	19 MAC GAPVAX VAC COMBO	PFMTRUCK	1M2GR4GC0KM007131
37722	18 ONA REPAIR-GENERATOR 7.5	MISCTRUCK	K180443731-RPR1
37776	18 UNK REPAIR-SECURITY CAMERAS	CAMERAEQ	
37788	VERICURE TEMP MONITORING SYS	VERICURE	DE47502353
37812	PETE 337 2AX JETTER	JETTRUCK	2NP2HM7X7FM273100
37814	RAM 2500 CREW CAB 4X4	PUTRUCK	3C6UD5HL4CG176025
37815	RAM 2500 CREW 4X4 UTILITY BED	PUTRUCK	3C6UD5HL6CG176026
37816	FORD F250 DIESEL PICKUP	PUTRUCK	1FT7W2BT2CEA37834
37820	FREIGHTLINER M2 BOX TRUCK	MISCTRUCK	1FVACXDC04HN46219
37821	KENWORTH T370 STEAM TRUCK	STEAMTRK	2NKHNN7X6CM311840
37824	GMC C7500 STEAM TRUCK	STEAMTRK	1GDM7C1367F411459
37826	PETE 367 3AX BOILER	HEATERTRK	1NP7L40X2ED244850
37863	FREIGHTLINER M2 FL106 FLUSHER	JETTRUCK	1FVACXDT7FHGN9722
37865	GMC TF7B043 CUTTER TRUCK	TVTRUCK	1GDJ7F1386F403267
37867	INTERNATIONAL 4300 TOOL TRUCK	MISCTRUCK	1HTMMAAM35H688732
37871	MACK RB690S STEAM BOILER	STEAMTRK	1M2AM20C51M003741
37876	FORD F150 CREWCAB 4X4	PUTRUCK	1FTFW1EF6EKG07589
37879	FORD F250 SUPERCAB 4X4	PUTRUCK	1FT7X2B63CEC48676
37881	FORD F550 VIDEO TRUCK	TVTRUCK	1FDUF5GT3FED11569
37882	PETE 348 COMBO BOILER	HEATERTRK	2NP3LJ0X8HM417087
37891	PETE 579 3AX TRACTOR	RDTRACTOR	1XPBDP9X8FD288968
37894	PETE 335 3AX REEFER TRUCK	MISCTRUCK	2NPLHN7X68M767431
37895	KENWORTH W900 REFRIGERATED TRK	REEFERTRK	2XKWDB9XXRM632731
37896	VERICURE TEMP MONITORING SYS	VERICURE	DE47503169
37897	VERICURE TEMP MONITORING SYS	VERICURE	DE47503283

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
4009	07 STL 360 STEAM BOX	STEAMTRK	2FZACGCS87AY31247
4011	07 STL 360 4X2 STEAM	STEAMTRK	2FZACGCS17AY31249
4017	02 STL L9500 6X4 HEATER	HEATERTRK	2FZHAZAS92AJ80951
4018	99 FRE FL112 HEAT/TOWER	HEATERTRK	1FVXTWEB5XHB44195
4019	00 FRL HEATER TRUCK-HFL112 6X4	HEATERTRK	1FVXTWEBXYHG04887
4020	03 STL L9500 HEATER	HEATERTRK	2FZHAZASX3AK91722
4021	01 STL L9500 6X4 HEATER	HEATERTRK	2FZHAZAS11AH74080
4023	06 STL ACTERRA 4X2 C/C STEAM	STEAMTRK	2FZACGCS06AW18999
4024	06 STL ACTERRA 4X2 STEAM	STEAMTRK	2FZACGCS16AW19000
4025	06 STL ACTERRA 4X2 STEAM	STEAMTRK	2FZACGCS36AW19001
4026	99 FRL FL112 6X4 HEATER	HEATERTRK	1FVXTWEB3XHB44194
4029	04 STL L9500 6X4 HEATER	HEATERTRK	2FZHAZCV04AN09353
4030	04 STL L9500 6X4 HEATER	HEATERTRK	2FZHAZCV54AN55874
4052	01 STL L9500 UV SUPPORT TK	HEATERTRK	2FZHAZAS91AJ50315
4077	Raven Box TK	MISCTRUCK	2FZHAZAS91AH74148
4080	05 STL L9500 6X4 REEFER	REEFERTRK	2FZHAZCVX5AN92291
4085	99 FRL FL112 6X4 REEFER	REEFERTRK	1FVXTECBXXHA76912
4086	99 FRL FL112 6X4 REEFER	REEFERTRK	1FVXTECB1XHA76913
4090	06 STL L9500 6X4 REEFER	REEFERTRK	2FZHAZDE96AW18962
4097	03 STL AT9500 BOX TK	HEATERTRK	2FWJA3CG13AL12462
4111	06 STL ACTERRA 4X2 BOX TK	STEAMTRK	2FZACFCS26AW19002
4116	06 STL ACTERRA 4X2 BOX	STEAMTRK	2FZACFCS46AW19003
4252	03 LOT 18FT FLATBED TR	TRAILERS	4ZEPH252031160841
4269	04 H&H FLATBED TR	TRAILERS	4J6US10164B059221
4274	99 REY HOMEMADE REEL TR	TRAILERS	FLT5344MM
4307	94 HOR REEL TR	TRAILERS	HRT442989408070HB
4310	94 HOR REEL TR	TRAILERS	HRT4199129308070B
4862	94 HOO FLATBED TR	TRAILERS	14FB20000110
51083	97 ACS 8" SYKES PUMP	TRAILERS	970907
51270	99 CAS 580SL EXTENDAHOE	BACKHOE	JJG0269980
51447	01 UNK 90X10 CONVEYOR	CONVEYORS	
51461	01 UNK 5'X30' PWER CONVEYOR	CONVEYORS	
51473	01 UNK 60X4 WETOUT CONVEYOR	CONVEYORS	
51481	01 ING CUTTER	CAMERAEQ	GK125
51581	02 UNK 15K # FORKLIFT	FORKLIFT	B024D0707212Y
51641	03 UNK STEAM UNIT 1559	MISCTRUCK	
51650	03 CLA 10K# FORKLIFT	FORKLIFT	CMP450L-0045-9585
51699	04 SNY EASEMENT TRACTOR	ESMTMACH	I84
51761	04 KOM PC158 EXCAVATOR	EXCAVATOR	10072
51912	06 RUS STEAM UNIT/1711	MISCTRUCK	RSU-106
51917	05 ACS INLINER BYPASS PIPING S	MISCSMEQ	
51949	06 RUS STEAM UNIT 1710	MISCTRUCK	SWC-237
51957	06 UNK WATER HEATER UNIT 1527	MISCTRUCK	SWC-244

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
52014	06 UNK TV UNIT FOR 1763	MISCTRUCK	422
52015	06 UNK TV UNIT FOR 1757	MISCTRUCK	353
52041	07 RUS STEAM UNIT/4011	MISCTRUCK	404324A
52042	07 RUS STEAM UNIT/180340	MISCTRUCK	404326
52043	07 RUS STEAM UNIT/4009	MISCTRUCK	404299
52066	07 CUE OZ LLL CAMERA	CAMERAEQ	07011601
52082	07 UNK BLENDING EQUIPMENT 4 PA	WETOUT	INVOICE #15
5215	98 SPT TELE CONVEYOR TR	TRAILERS	1S9AL1824WB377055
52336	08 ENCLOSED STEAM UNIT/ 4077	MISCTRUCK	4077
52348	08 UNK 3 STAGE VAC ASSEMBLY	MISCTRUCK	INVOICE 18023
52369	08 CLA FORKLIFT FOR WETOUT	FORKLIFT	P680L-0017-9776
52370	08 UNK STEAM UNIT	MISCTRUCK	4081 ATTACHMENT
52401	NN CUE GIANT KANGAROO CUTTER	CAMERAEQ	8100102
52402	NN CUE GIANT KANGAROO CUTTER	CAMERAEQ	8100101
52495	TR INVERSION PLATFORM	INVUNIT	CER 10-340
5321	4-PART RESIN STATIC MIXER	WETOUT	
5355	RESIN STORAGE TANK	WETOUT	
5377	06 UNK OVERTHEHOLE EQUIPMENT	INVUNIT	
59.10011	BRECKENRIDGE TANK STORAGE SYS	WETOUT	
59.10041	AIR INVERTOR	MISCSMEQ	
59.33637	KUBOTA RTV1100	BACKHOE	
59.33873	BALANCE LINER EQUIPMENT	INPLNTMFG	
59.33874	RFM INVERSION UNIT	INVUNIT	
59.33875	WATER CHIIP UNIT	MISCSMEQ	
59.33876	MINI RFM INVERSION UNIT	INVUNIT	
59.33877	VERICURE TEMP MONITORING SYS	VERICURE	DE47502354
59.33879	INVERSION UNIT 21-48"	INVUNIT	
59.33906	NOZZTEQ	MISCSMEQ	
59.33907	EASEMENT MACHINE	MISCSMEQ	
59.33908	IST ROBOTIC CUTTER 200	CAMERAEQ	
59.33909	PLUGS LOGIBALL	MISCSMEQ	
59.33910	IST ROBOTIC CUTTER 200	CAMERAEQ	
59.33913	IST CAMERA POWERVIEW 200	CAMERAEQ	
59.33915	WET-OUT LFS ONT	WETOUT	
59.33920	LF CUTTERS (2)	CAMERAEQ	
59.33921	3 CUTTERS	CAMERAEQ	
59.34126	ARIES MOBILE PATHFINDER SYS	CAMERAEQ	TR331018060067
59.34788	IST ROBOTIC CUTTER 200	CAMERAEQ	PC200-145
59.35130	IST TEST BENCH	CAMERAEQ	002073
59.35256	IST ROBOTIC CUTTER 200	CAMERAEQ	PC200-157
80.44232	90X10 CONVEYOR	WETOUT	
85.44235	TANK FARM	WETOUT	
89.44234	MIXING SYSTEM	WETOUT	

Inliner Solutions, LLC Equipment List

Asset ID	Description	Asset Class	Serial Number
A115	99 MAC CH613 4X2 OTR	RDTRACTOR	1M1AA18Y5XW101608
A700	MACK CL613 3AX TRACTOR	RDTRACTOR	1M2AD37Y2PW001109
BD46539	INLINER TANK FARM	WETOUT	
C1014	96 ACS AP200 8IN PUMP	TRAILERS	961201
C1316	99 LER 375 AIR COMP	AIRCOMP	3513X15
C2101	07 KOM WB146 BACKHOE	BACKHOE	A24297
C2165	08 JDR 544H LDR	BACKHOE	DW544HX585521
C234	CLARK FORK LIFT	FORKLIFT	Y68500906397FA
C340	95 CAT 966F WHL LDR	BACKHOE	1SL00535

ATTACHMENT I

QUALIFICATIONS AND REFERENCES

The Contractor shall submit a minimum of four (4) recent (within the past five (5) years) references of projects of similar size and scope involving cleaning and CCTV, cured-in-place liners, cured-in-place liner spot repair, manhole rehabilitations and grouting or any combination of services being offered to the City. Each reference shall include a project description, project location, name and phone number of a contact person, total project amount, and completion date.

1. Business/Customer Name: Pinellas County, FL - Public Works Department

Name of Contact Person/Title: Mark Demyan

Telephone# 727-464-4606 E-mail Not Provided

Address 22211 US Highway 19 N Clearwater, FL 33765

Phone Number 727-464-4606

Duration of Contract or business relationship 12/1/2021 - 2/01/2022

Type of Services Provided Storm Sewer Pipe CIPP - Various Fee Locations SWF R-15 (WO 003325A/2625B14)

Contract Period: FROM 12/1/2021 TO 2/01/2022

Contract Price \$ \$198,631.15 Contract Price at Completion of the Project \$ \$179,769.55

2. Business/Customer Name: City of Bradenton, FL

Name of Contact Person/Title: Kim Clayback

Telephone# 941-708-6300 E-mail kim.clayback@bradentonfl.gov

Address 1411 9th St. West, Bradenton, FL 34205

Phone Number 941-708-6300

Duration of Contract or business relationship 11/1/2022 - 3/31/2023

Type of Services Provided 2023 CIPP Lining (Pos 2300768, 2300903, & 2211122)

Contract Period: FROM 11/01/2022 TO 3/31/2023

Contract Price \$ \$294,280.97 Contract Price at Completion of the Project \$ \$877,082.29

Date: 11/18/2025

Signed (Person authorized to bind the company): _____

Name (printed): Thomas Gottsegen Title: Chief Legal Officer & Asst. Secretary

(THIS PAGE MUST BE COMPLETED AND SUBMITTED)

3. Business/Customer Name: City of North Port, FL - Public Works Department

Name of Contact Person/Title: Tony Payne

Telephone# 941-628-8174 E-mail Not Provided

Address 1100 N. Chamberlain Blvd., North Port, FL 34286

Contract Period: FROM 1/15/2024 TO 6/28/2024

Contract Price \$ \$320,811.00 Contract Price at Completion of the Project \$ \$1,033,674.00

Phone Number 941-628-8174

Duration of Contract or business relationship 1/15/2024 - 6/28/2024

Type of Services Provided CIPP - Country Club Ridge (PB-Volusia 750-4140-2) PO 050405

Contract Period: FROM 1/15/2024 TO 6/28/2024

Contract Price \$ \$320,811.00 Contract Price at Completion of the Project \$ \$1,033,674.00

4. Business/Customer Name: City of St. Petersburg, FL

Name of Contact Person/Title: John Stanton

Telephone# 727-893-7436 Fax N/A E-mail john.stanton@stpete.org

Address 1 Fourth St. N, St. Petersburg, FL 33701

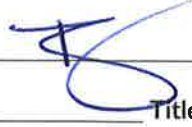
Phone Number 727-893-7436

Duration of Contract or business relationship 5/1/2025 - 9/12/2025

Type of Services Provided St. Pete Sanitary Clean and CCTV 8 (941-69)

Contract Period: FROM 5/1/2025 TO 9/12/2025

Contract Price \$ \$295,529.00 Contract Price at Completion of the Project \$ \$897,507.00

Signed (Person authorized to bind the company): 

Name (printed): Thomas Gottsegen Title: Chief Legal Officer & Asst. Secretary

(THIS PAGE MUST BE COMPLETED AND SUBMITTED)

Attachment 1.1

GENERAL INSURANCE

A. Insurance.

- (1) Before performing any work pursuant to this Contract, the Contractor must procure and maintain, during the life of this Contract, the insurance listed below against all claims of injury to persons or damage to property which may arise from or in connection with its performance of the Contract work, unless otherwise specified. The policies of insurance must be primary and written on forms acceptable to the City and placed with insurance carriers approved and licensed by the State of Florida Department of Financial Services, and meet a minimum financial A.M. Best and Company, Inc. rating of no less than "A - Excellent: FSC VII." No changes can be made to these specifications without prior written approval by the City Manager or designee. The City Manager or designee may alter the amounts or types of insurance policies required by this Contract upon agreement with the Contractor. The insurance policies must remain in place until all of the Contractor's and subcontractor(s)' obligations and warranty periods in place pursuant to this Contract have been discharged or satisfied.
- (2) The below insurance requirements are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The City in no way warrants that the minimum limits are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work done pursuant to this Contract by the Contractor, its agents, representatives, employees, or subcontractors. Contractor is free to purchase additional insurance as it may determine necessary. The extent of Contractor's liability for indemnity of the City must not be limited by insurance coverage or lack thereof, or unreasonably delayed for any reason, including but not limited to, insurance coverage disputes between the Contractor and its carrier.

- B. Workers' Compensation and Employers' Liability Insurance. Coverage pursuant to Florida Statutes, Chapter 440 must apply to all employees at the statutory limits provided by state and federal laws. The policy must include Employers' Liability with a limit of **\$1,000,000** for each accident; **\$ 1,000,000** each employee; and **\$ 1,000,000** policy limit for bodily injury or disease. Proof of insurance must be filed by the Contractor with the City within **ten (10) calendar days** after the Effective Date of this Contract.

- C. Comprehensive Commercial General Liability Insurance. The Contractor must procure and maintain, and require all subcontractors to procure and maintain, during the life of this Contract, a comprehensive commercial general liability policy, including but not limited to bodily injury, property damage, broad form contractual liability and Explosion, Collapse and Underground (XCU) coverage. The general aggregate limit must apply separately to this Contract, or the general aggregate limit must be twice the required occurrence limit.

The policy must include General Liability with a limit of **\$1,000,000** for General Aggregate; **\$ 1,000,000** for each occurrence; **\$ 1,000,000** for Products and Completed Operations; **\$ 100,000** for damage to rented premises; and **\$1,000,000** for Fire Damage. Proof of insurance must be filed by the Contractor with the City within **ten (10) calendar days** after the Effective Date of this Contract.

- D. Automobile Liability Insurance. The Contractor must procure and maintain, and require all subcontractors to procure and maintain, during the life of this Contract, automobile liability insurance to include all owned, leased, hired, and non-owned vehicles. Automobile liability insurance must be written on a standard ISO form (CA 00 01) covering any auto (Code 1), or if Contractor has no owned autos, hired (Code 8) and non-owned (Code 9) autos.

The policy must include liability insurance with a limit of **\$ 1,000,000** for Combined Single Limit (CSL) for each accident; **\$ 1,000,000** per person for Bodily Injury; **\$ 1,000,000** per accident for Bodily Injury; and

\$ 1,000,000 per accident for Property Damage. Proof of such insurance must be filed by the Contractor with the City within **ten (10) calendar days** after the Effective Date of this Contract.

E. Waiver of Subrogation. All required insurance policies, except for Workers' Compensation, are to be endorsed with a Waiver of Subrogation. The insurance companies, by proper endorsement or through other means, must agree to waive all rights of subrogation against the City, its Commissioners, officers, officials, employees, volunteers, and the City's insurance carriers, for losses paid under the terms of these policies that arise from the contractual relationship or work performed by the Contractor for the City. It is the Contractor's responsibility to notify its insurance company of the Waiver of Subrogation and request written authorization or the proper endorsement. ADDITIONALLY, THE CONTRACTOR, ITS OFFICERS, OFFICIALS, AGENTS, EMPLOYEES, VOLUNTEERS, AND ANY SUBCONTRACTORS, AGREE TO WAIVE ALL RIGHTS OF SUBROGATION AGAINST THE CITY AND ITS INSURANCE CARRIERS FOR ANY LOSSES PAID, SUSTAINED, OR INCURRED, BUT NOT COVERED BY INSURANCE, THAT ARISE FROM THE CONTRACTUAL RELATIONSHIP OR WORK PERFORMED. THIS WAIVER APPLIES TO ANY DEDUCTIBLES OR SELF-INSURED RETENTIONS FOR WHICH THE CONTRACTOR OR ITS AGENTS MAY BE RESPONSIBLE.

F. Policy Form.

- (1) All policies required by this Contract, except for Workers' Compensation and Professional Liability, or unless specific approval is given by Risk Management through the City's Purchasing Division, are to be written on an occurrence basis, and must name the City of North Port, Florida, its Commissioners, officers, agents, employees, and volunteers as additional insured as their interest may appear under this Contract. Claims Made Policies may be accepted for professional liability, hazardous materials and such other risks as are authorized by the City's Purchasing Division. All Claims Made Policies contributing to the satisfaction of the insurance requirements must have an extended reporting period option or automatic coverage of not less than two (2) years. If provided as an option, Contractor must purchase the extended reporting period on cancellation or termination unless a new policy is affected with a retroactive date, including at least the last policy year.
- (2) Insurance requirements itemized in this Contract, and required of the Contractor, must be provided by or on behalf of all subcontractors to cover their operations performed under this Contract. The Contractor is responsible for any modifications, deviations, or omissions in these insurance requirements as they apply to its subcontractors.
- (3) Each insurance policy required by this Contract must:
 - (a) Apply separately to each insured against whom claim is made and suit is brought, except with respect to limits of the insurer's liability.
 - (b) Be endorsed to state that coverage must not be suspended, voided, or cancelled by either party except after notice is delivered in accordance with the policy provisions. The Contractor is to notify the City's Purchasing Division of any occurrence by written notice via certified mail, return receipt requested.
- (4) The City retains the right to review, at any time, coverage, form, and amount of insurance.
- (5) The Contractor is solely responsible for payment of all premiums for insurance required in this Contract and is solely responsible for the payment of all deductibles, SIR (self-insured retentions), any loss or portion of any loss that is not covered by any available insurance policy, and retention as set forth in the policies, whether the City is an insured under the policy. Contractor's insurance is considered primary for any loss, regardless of any insurance maintained by the City.

- (6) All certificates of insurance must be on file with and approved by the City before commencement of any work done pursuant to this Contract. All required certificates of insurance must be accompanied by a copy of the additionally insured documents/endorsements (CG 20101185 or combination of CG 2010370704 and CG 20370704). Certificates of insurance evidencing Claims Made or Occurrences form coverage and conditions to this Contract, as well as the Contract number and description of work, are to be furnished to the City's Purchasing Division at 4970 City Hall Boulevard, Suite 337, North Port, FL 34286 prior to commencement of the work and a minimum of **thirty (30) calendar days** prior to expiration of the insurance Contract when applicable. All insurance certificates must be received by the City's Purchasing Division before the Contractor commences or continues work. The certificate of insurance issued by the underwriting department of the insurance carrier must certify compliance with the insurance requirements of this Contract.
- (7) Notices of Accidents (Occurrences) and Notices of Claims associated with work being performed pursuant to this Contract must be provided to Contractor's insurer(s) and the City's Purchasing Division as soon as practicable after notice to the insured Contractor.



Attachment 2.2

CONSTRUCTION SERVICES INDEMNITY, AND RELEASE

- A. TO THE EXTENT PERMITTED BY FLORIDA LAW, THE CONTRACTOR ASSUMES ALL LIABILITY FOR, AND RELEASES AND AGREES TO INDEMNIFY, PROTECT, AND HOLD HARMLESS THE CITY, ITS COMMISSIONERS, OFFICERS, AGENTS AND EMPLOYEES, FROM ALL LIABILITIES, FINES, CLAIMS, ASSESSMENTS, SUITS, JUDGMENTS, DAMAGES, LOSSES AND COSTS, INCLUDING CONSEQUENTIAL, SPECIAL, INDIRECT, AND PUNITIVE DAMAGES, (INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND COURT COSTS, WHETHER THE FEES AND COSTS ARE INCURRED IN NEGOTIATIONS, AT THE TRIAL LEVEL OR ON APPEAL, OR IN THE COLLECTION OF ATTORNEYS' FEES), ARISING OUT OF ANY ACTS, ACTIONS, BREACHES, NEGLIGENCE OR OMISSIONS OF THE CONTRACTOR, OR THE CONTRACTOR'S OFFICERS, EMPLOYEES, AGENTS, SUB-CONTRACTORS, SUB-CONSULTANTS, AND OTHER PERSONS EMPLOYED OR UTILIZED BY THE CONTRACTOR IN THE PERFORMANCE OF, OR THE FAILURE TO PERFORM, THIS CONTRACT. THIS CONTRACT DOES NOT CONSTITUTE A WAIVER OF SOVEREIGN IMMUNITY OR CONSENT BY THE CITY OR ITS SUBDIVISIONS TO SUIT BY THIRD PARTIES.
- B. FURTHER, THE CONTRACTOR SHALL FULLY INDEMNIFY, AND HOLD HARMLESS THE CITY FROM ALL SUITS, ACTIONS, DAMAGES, AND COSTS OF EVERY NAME AND DESCRIPTION, INCLUDING ATTORNEYS' FEES, ARISING FROM OR RELATING TO VIOLATION OR INFRINGEMENT OF A TRADEMARK, COPYRIGHT, PATENT, TRADE SECRET OR INTELLECTUAL PROPERTY RIGHT.
- C. The City must provide all available information and assistance that the **contractor** may reasonably require regarding any claim. In the event of a claim, the city must promptly notify the **contractor** in writing by prepaid certified mail (return receipt requested) or by delivery through any nationally recognized courier service (such as federal express or ups) which provides evidence of delivery, at the address provided for receipt of notices in this Contract.
- D. The insurance coverage and limits required in this Contract may or may not be adequate to protect the city and such insurance coverage will not be deemed a limitation on the **contractor's** liability under the indemnity provided in this section. In any proceedings between the parties arising out of or related to this indemnity provision, the prevailing party shall be reimbursed all costs, expenses, and reasonable attorney fees through all proceedings (at both trial and appellate levels).
- E. Nothing in this Contract shall be deemed to affect the rights, privileges and immunities of the city as set forth in Florida Statutes Section 768.28.
- F. The terms of this section survive the termination or completion of this Contract work.



Attachment 5

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Representative

Thomas Gottsegen

Name

Chief Legal Officer & Asst. Secretary

Title

11/13/2025

Date

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 6

NON-COLLUSIVE AFFIDAVIT

Before me, the undersigned authority ("Affiant"), personally appeared:

Thomas Gottsegen who, being first duly sworn, deposes and says that:

1. Affiant is the Chief Legal Officer & Asst. Secretary of Inliner Solutions, LLC, the Respondent that has submitted the attached reply;
2. Affiant is fully informed respecting the preparation and contents of the attached reply and of all pertinent circumstances respecting such reply;
3. Such reply is genuine and is not a collusive or sham reply;
4. Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other respondent, firm, or person to submit a collusive or sham reply in connection with the work for which the attached reply has been submitted: or have in any manner, directly or indirectly sought by agreement or collusion, or communication or conference with any respondent, firm, or person to fix the price or prices in the attached reply or of any other respondent, or to fix any overhead, profit, or cost elements of the reply price or the reply price of any other respondent, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the reply work.

Signed, sealed, and delivered on November 13, 2025.



[Signature]
Signature
Thomas Gottsegen
Printed Name
Chief Legal Officer & Asst. Secretary
Title

SWORN ACKNOWLEDGMENT

STATE OF GA

COUNTY OF Gwinnett

Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence or ☐ online notarization, this 13th day of November, 2025, by Danielle Lee

[Signature]
Notary Public

Personally Known ☒ OR Produced Identification ☐
Type of Identification Produced Drivers License

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 7
CONFLICT OF INTEREST FORM

Florida Statutes Section 112.313 places limitations on public officers (including advisory board members) and employees' ability to contract with the City of North Port, Florida ("City") either directly or indirectly.

PART I. *[Select and complete all that apply]:*

☐ I am an employee, public officer, or advisory board member of the City.

Identify the position and/or board: _____

☐ I am the spouse or child of an employee, public officer, or advisory board member of the City.

Identify the name of the spouse or child: _____

☐ I am an employee, public officer or advisory board member of the City, or my spouse or child, is an officer, partner, director, or proprietor of Respondent/Contractor or has a material interest in Contractor. "Material interest" means direct or indirect ownership of more than 5 percent of the total assets or capital stock of any business entity. For the purposes of Florida Statutes Section 112.313, indirect ownership does not include ownership by a spouse or minor child.

Identify the name of the person and the entity _____

☐ Bidder/Contractor employs or contracts with an employee, public officer, or advisory board member of the City.

Identify the name of the employee, public officer, or advisory board member _____

☒ None of the Above

PART II: Will you request an advisory board member waiver?

☐ I WILL request an advisory board member waiver under §112.313(12)

☐ I WILL NOT request an advisory board member waiver under §112.313(12)

☒ N/A

The City will review any relationships which may be prohibited under the Florida Ethics Code and will disqualify any Contractor whose conflicts are not waived or exempt.



Signature of Person Authorized to Bind the Contractor
Thomas Gottsegen

Printed Name
Chief Legal Officer & Asst. Secretary

Title
11/13/2025

Date

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 8
PUBLIC ENTITY CRIME INFORMATION

As provided by F.S. §287.133, 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 in Section 287, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

I, Thomas Gottsegen, being an authorized representative of the Contractor,
have read and understand the contents above.

I certify that the Contractor is not disqualified from replying to this solicitation/contracting because of Florida Statutes Section 287.133.

Telephone #: 407-421-5283 Fax #: N/A

Federal ID #: 01-0684682 Email: chris.currie@puriscorp.com



[Signature]
Signature of Contractor's Authorized Representative

Thomas Gottsegen - Chief Legal Officer & Asst. Secretary
Name and Title of Contractor's Authorized Representative

11/13/2025
Date

SWORN ACKNOWLEDGMENT

Georgia
STATE OF ~~FLORIDA~~
COUNTY OF Gwinnett

Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence or ☐ online notarization, this
13th day of November 2025, by Danielle Lee

[Signature]
Notary Public – State of ~~Florida~~ Georgia

Personally Known ☒ OR Produced Identification ☐
Type of Identification Produced Drivers License

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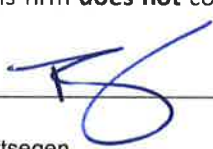
Attachment 9
DRUG FREE WORKPLACE FORM

The undersigned, in accordance with Florida Statutes Section 287.087, hereby certifies that the Contractor,
Inliner Solutions, LLC (Company Name):

1. Publishes 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. Informs 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. Gives 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), notifies 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. Imposes 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 any employee who is so convicted.
6. Makes a good faith effort to continue to maintain a drug free workplace through implementation of this section.

Check one:

- ☒ As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.
- ☐ As the person authorized to sign this statement, this firm **does not** comply fully with the above requirements.



Signature
Thomas Gottsegen

Printed Name

Title Chief Legal Officer & Asst. Secretary

Date 11/13/2025

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 10

SWORN STATEMENT: THE FLORIDA TRENCH SAFETY ACT

1. This Sworn Statement is submitted with Contract No. 2025-22 for the construction of 2023 Water Distribution and Bridge Water Main Replacement.
2. This Sworn Statement is submitted by Inliner Solutions, LLC ("Contractor") whose business address is 2531 Jewett Lane Sanford, FL 32771 and (if applicable) its Federal Employer Identification Number (FEIN) is 01-0684682.
3. The Trench Safety Standards that will be in effect during the construction of this Project are Florida Statute Section 553.60-55.64, Trench Safety Act, and OSHA Standard.
4. The undersigned assures that the entity will comply with the applicable Trench Safety Standards and agrees to indemnify and hold harmless the County and ENGINEER, and any of their agents or employees from any claims arising from the failure to comply with said standard.
5. The Contractor has appropriated \$ 1200.00 per linear foot of trench to be excavated over 5' deep for compliance with the applicable standards and intends to comply by instituting the following procedures:

6. The Contractor has appropriated \$ 25.00 per square foot for compliance with shoring safety requirements and intends to comply by instituting the following procedures:

7. The undersigned, in signing this Sworn Statement, represents that he or she has reviewed and considered all available geotechnical information and made such other investigations and tests as he or she may deem necessary to adequately design the trench safety system(s) the Contractor will utilize on this Project.



[Signature]
Signature
Thomas Gottsegen
Name
Chief Legal Officer & Asst. Secretary
Title

SWORN ACKNOWLEDGEMENT

STATE OF Georgia
COUNTY OF Gwinnett

Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence or ☐ online notarization, this 13th day of November 2025, by Thomas Gottsegen (name), as Chief Legal Officer & Asst. Secretary (title) for Inliner Solutions, LLC (entity).

[Signature]
Notary Public

☒ Personally Known OR ☐ Produced Identification
Type of Identification Produced Drivers License

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 11

SCRUTINIZED COMPANY CERTIFICATION FORM

Contractor Name: Inliner Solutions, LLC

Authorized Representative Name and Title: Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

Address: 2531 Jewett Lane City: Sanford State: FL ZIP: 32771

Phone Number: 407-421-5283 Email Address: chris.currie@puriscorp.com

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a Contract with the City of North Port for goods or services of any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such Contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Florida Statutes, section 215.4725, or is engaged in a boycott of Israel.

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a Contract with the City of North Port for goods or services of \$1 million or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such Contract, the company is on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statutes, section 215.473, or with companies engaged in business operations in Cuba or Syria.

CHOOSE ONE OF THE FOLLOWING

☐ This Contract or Contract renewal is for goods or services of less than \$1 million. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes Section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel.

☒ This bid, proposal, Contract or Contract renewal is for goods or services of \$1 million or more. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes Section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and it does not have business operations in Cuba or Syria.

I understand that pursuant to Florida Statutes, section 287.135, the submission of a false certification may result in the termination of the Contract if one is entered into, and may subject the above-named company to civil penalties, attorney's fees and costs.

Certified By: 

Signature of Contractor's Authorized Representative

Thomas Gottsegen

Name

Chief Legal Officer & Asst. Secretary

Title

11/13/2025

Date

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 12

VENDOR'S CERTIFICATION FOR E-VERIFY SYSTEM

The undersigned Vendor/Consultant/Contractor (Vendor), after being duly sworn, states the following:

1. Vendor is a person or entity that has entered into or is attempting to enter into a contract with the City of North Port (City) to provide labor, supplies, or services to the City in exchange for salary, wages or other remuneration.
2. Vendor has registered with and will use the E-Verify System of the United States Department of Homeland Security to verify the employment eligibility of:
 - a. All persons newly hired by the Vendor to perform employment duties within Florida during the term of the contract; and
 - b. All persons, including sub-contractors, sub-vendors or sub-consultants, assigned by the Vendor to perform work pursuant to the contract with the City.
3. If the Vendor becomes the successful Contractor who enters into a contract with the City, then the Vendor will comply with the requirements of Section 448.095, Fla. Stat. "Employment Eligibility", as amended from time to time.
4. Vendor will obtain an affidavit from all subcontractors attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien as defined in 8 United States Code, Section 1324A(H)(3).
5. Vendor will maintain the original affidavit of all subcontractors for the duration of the contract.
6. Vendor affirms that failure to comply with the state law requirements can result in the City's termination of the contract and other penalties as provided by law.
7. Vendor understands that pursuant to Florida Statutes, section 448.095, the submission of a false certification may result in the termination of the contract if one is entered into, and may subject the Vendor named in this certification to civil penalties, attorney's fees and costs.

VENDOR: Inliner Solutions, LLC (Vendor's Company Name)

Certified By: 
AUTHORIZED REPRESENTATIVE SIGNATURE

Print Name and Title: Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

Date Certified: 11/13/2025

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Attachment 13

HUMAN TRAFFICKING AFFIDAVIT

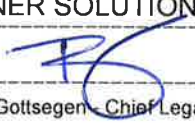
The undersigned, on behalf of the entity listed below ("Entity"), hereby attests and declares as follows:

1. I am over the age of 18 and I have personal knowledge of the matters stated in this affidavit except as otherwise set forth herein.
2. I currently serve as Chief Legal Officer & Asst. Secretary (title) of Inliner Solutions, LLC (Entity).
3. The Inliner Solutions, LLC (Entity) does not use coercion for labor or services, as those terms are defined in Florida Statutes Section 787.06.
4. This affidavit is made pursuant to Florida Statutes Section 92.525.
5. I understand that making a false statement in this affidavit may subject me to criminal penalties.
6. I am authorized to execute this document on behalf of the entity.

Under penalties of perjury, I, Thomas Gottsegen as Chief Legal Officer & Asst. Secretary, declare that I have read the foregoing Human Trafficking Affidavit and that the facts stated in it are true.

ENTITY

INLINER SOLUTIONS, LLC [insert name of legal entity, in bold ALLCAPS]

 signature

Thomas Gottsegen, Chief Legal Officer & Asst. Secretary
name and title

11/13/2025 date

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Attachment 14

AFFIDAVIT OF COMPLIANCE REGARDING FOREIGN ENTITY OF CONCERN LAWS

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests and declares as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Florida Statutes Section 287.138.
2. The government of a foreign country of concern does not have a controlling interest in Entity.
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern.
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Florida Statutes Section 692.201.
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Florida Statutes Section 692.201, or a subsidiary of such entity.
6. Entity is not a foreign principal, as defined in Florida Statutes Section 692.201.
7. Entity complies with all applicable requirements of Florida Statutes Sections 692.202, 692.203, and 692.204.
8. **[Insert if purchasing real property]** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (1) not a person or entity described in Florida Statutes Section 692.204(1)(a) or (2) authorized under Florida Statutes Section 692.204(2) to purchase the subject property. Entity complies with the requirements of Florida Statutes Section 692.204.
9. The undersigned is authorized to execute this affidavit on behalf of Entity.

Under penalties of perjury, I declare that I have read the foregoing document and that the facts stated in it are true.

ENTITY

INLINER SOLUTIONS, LLC **[insert name of legal entity, in bold ALLCAPS]**



[signature]

Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

[insert name and title]

11/13/2025

[insert date]

THIS PAGE MUST BE COMPLETED AND SUBMITTED

**ATTACHMENT 15:
CERTIFICATION BY BIDDER**

Executive Order 11246 (contracts/subcontracts above \$10,000)

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after the ITB opening. No contract shall be awarded unless such report is submitted.

NAME AND ADDRESS OF BIDDER (include ZIP Code): Inliner Solutions, LLC
2531 Jewett Lane Sanford, FL 32771

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause. Yes ☒ No ☐
2. Compliance reports were required to be filed in connection with such contract or subcontract. Yes ☒ No ☐
3. bidder has filed all compliance reports due under applicable instructions. Yes ☒ No ☐
4. Have you ever been or are you being considered for sanction due to violation of Executive Order 112246, as amended? Yes ☐ No ☒

Signed, sealed and delivered this 13th day of November, 2025.

By: 

Thomas Gottsegen
(Printed Name)
Chief Legal Officer & Asst. Secretary
(Title)

STATE OF Georgia
COUNTY OF Dekalb

Sworn to and subscribed before me this 13 day of November, 2025, by Thomas Gottsegen who ☐
is personally known to me or ☒ has produced his/her driver's license as identification.


Notary Public - State of Florida Georgia
Print Name: Danielle Lee
Commission No: 7/31/2029

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Attachment 16
CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS
PRIMARY COVERED TRANSACTIONS

This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000.

The Bidder certifies that, neither the firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.110(a), by any federal department or agency;

(b) has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) is presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) has within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Bidder certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the City of North Port.

The Bidder must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

This certification is a material representation of fact relied upon by the City of North Port. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the City of North Port, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer.

The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

<u>Inliner Solutions, LLC</u>	<u>01-0684682</u>	<u>13-073-4267</u>
Company (Bidder) Name	Tax ID Number	DUNS Number
<u>Thomas Gottsegen</u>		
Authorized Representative Name	Authorized Representative Signature	

<u>01-0684682</u>	<u>13-073-4267</u>	<u>3VYS8</u>
Federal Issued Tax	DUNS Number	CAGE Code issued through www.sam.gov
Identification Number		
(If Social Security number DO NOT enter)	DATE: <u>11/13/2025</u>	

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Attachment 17

CERTIFICATIONS AND REPRESENTATIONS

(GRANTFUNDS)

1. BYRD ANTI-LOBBYING AMENDMENT COMPLIANCE AND CERTIFICATION

For all orders above the limit prescribed in 2 CFR 215, Appendix A, Section 7 (currently \$100,000), the Offeror must complete and sign the following:

The following certification and disclosure regarding payments to influence certain federal transactions are made per the provisions contained in OMB Circular A-110 and 31 U.S.C. 1352, the "Byrd Anti-Lobbying Amendment."

The offeror, by signing its offer, hereby certifies to the best of his or her knowledge and belief that:

No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement;

If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and

He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$100,000 shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person making an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

SIGNATURE:  Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

COMPANY NAME: Inliner Solutions, LLC

DATE: 11/13/2025

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Attachment 18

ACKNOWLEDGEMENT OF TERMS, CONDITIONS, AND GRANT CLAUSES

Flow down of Terms and Conditions from the Federal Regulations and/or Grant Agreement

Subcontracts: If the Bidder subcontracts any portion of the work under this Agreement, a copy of the signed subcontract must be available to the City of North Port for review and approval. The bidder agrees to include in the subcontract that:

- (1) the subcontractor is bound by the terms of this Agreement;
- (2) the subcontractor is bound by all applicable state and federal laws and regulations; and
- (3) the subcontractor shall hold the City of North Port, grant recipient and granting agency harmless against all claims of whatever nature arising out of the subcontractor's performance of work under this Agreement, to the extent allowed and required by law.

Grant Conditions and Federal Provisions

On behalf of the Bidder, I acknowledge, and agree to perform all of the specifications and grant requirements identified in this solicitation document(s).

SIGNATURE: _____

Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

COMPANY NAME: Inliner Solutions, LLC

DATE: 11/13/2025

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Attachment 19

FEDERAL NON-COLLUSION /LOBBYING CERTIFICATION

Thomas Gottsegen, being the authorized Agent, certifies that: He/she is the
Chief Legal Officer & Asst. Secretary (Owner, Partner, Officer,
Representative or Agent) of Inliner Solutions, LLC, the Bidder that has submitted the attached
Proposal.

NON-COLLUSION PROVISION CERTIFICATION

The undersigned hereby certifies, to the best of his or her knowledge and belief, that on behalf of the person, firm, association, or corporation submitting the bid certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. Failure to submit the executed statement as part of the bidding documents will make the bid nonresponsive and not eligible for award consideration.

LOBBYING CERTIFICATION

"The undersigned hereby certifies, to the best of his or her knowledge and belief, that:

(a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence either directly or indirectly an officer or employee of any state or federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal Contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-L "Disclosure Form to Report Lobbying", in accordance with its instructions.

(c) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into.

Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, US Code. Any persons who fail to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each failure."

Daniel Lee
Witness

By: 
Thomas Gottsegen
(Printed Name)
Chief Legal Officer & Asst. Secretary
(Title)

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Attachment 20

FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT

Data Collection Form

The Federal Funding Accountability and Transparency Act (FFATA) requires a system to allow federal prime grant awardee recipients to report sub-award activity and executive compensation. The FFATA Subaward Reporting System – FSRS.gov – is the system that allows grant award recipients to electronically report their sub-award activity.

Pursuant to 2 CFR Appendix A to Part 170 - Award Term (as defined in 2 CFR 170.320), and in compliance with the FFATA Subaward Reporting System (FSRS) reporting requirements, Sarasota County must capture and report sub-recipient and executive compensation data regarding its first-tier sub-awards that obligate **equal to or in excess of \$30,000** in Federal funds.

ORGANIZATION AND PROJECT INFORMATION:

Active Unique Entity ID (sam.gov): N9NTF4514XH7 Congressional District 11th

Name of Entity: Inliner Solutions, LLC

Address of Entity: 2531 Jewett Lane

City Sanford, State FL, Country USA Zip code 32771

Amount of Sub Award: \$368,132 Federal Contract No. TBD

Project Description: RFB 2025-43 LIFT STATION DIESEL BYPASS PUMPS
COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION

Entity's Principal Place of Performance:

City Sanford, State FL, Country USA Zip code 32771

Congressional District 11th

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Attachment 21

EXECUTIVE COMPENSATION INFORMATION:

- 1) In your business or organization's preceding completed fiscal year, did your business or organization (the legal entity with this SAM record, represented by a Unique Entity ID number,) receive:
- a) 80 percent or more of its annual gross revenue in Federal procurement contracts (and subcontracts) and Federal financial assistance awards subject to the Transparency Act, as defined at § 170.320 (and subawards); **and**
 - b) \$25,000,000 or more in annual gross revenue from Federal procurement contracts (and subcontracts) and Federal financial assistance awards subject to the Transparency Act, as defined at § 170.320;

YES _____ (answer question #2) NO ✓ (only signature is required)

2. Does the public have access to information about the compensation of the senior executives in your business or organization (the legal entity with this SAM record, represented by a Unique Entity ID number) unless publicly available, through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U. S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986

YES _____ (only signature is required) NO _____ (provide compensation data and signature)

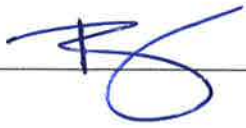
If you answer No to question #1, compensation data is not required. If you answer No to question #2, please provide the following information below: Names and total compensation of each of the five (5) most highly compensated executives for Sub-recipient's preceding fiscal year. Total compensation includes salary and bonus, awards of stock, stock options and stock appreciation rights, earnings for services under non-equity incentive plans, change in pension value, above-market earnings on deferred compensation which is not tax-qualified, and other compensation, if the aggregate value of all such other compensation (e.g. severance, termination payments, value of life insurance paid on behalf of employee, perquisites or property) for the executive exceeds \$10,000. For more information, please see 17 CFR 229.402(c)(2).

Names and total compensation of the five highest compensated officers of the entity:

No.	Name	Title	Total Compensation for Most Recently Completed Fiscal Year

Certification

I certify, on behalf of Inliner Solutions, LLC (Insert Legal Entity Name) that the information provided in response to this information request is complete and accurate. I further certify that I have the authority to provide the requested information and execute this certification on behalf of Inliner Solutions, LLC (Insert Legal Entity Name). Last, I certify that I am fully aware that the information provided in this Data Collection Form will be submitted to <https://www.fsrs.gov/> and may be made public.



Signature

Chief Legal Officer & Asst. Secretary

Title

Thomas Gottsegen

Name printed

11/13/2025

Date

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Attachment 22

CONTRACT CHANGES

- A. The parties may make changes to the contract work, including additions or deletions, provided that such changes are within the general scope of the contract work. Any change affecting the contract price must be in writing and signed by both parties. The Contractor is not entitled to any increase in price or extension of time unless the contract is changed in accordance with this section.
- B. Either party may submit to the other a change proposal, which must identify any proposed changes in contract price or time, explain why the change is believed necessary, and cite to any applicable provision of the contract. Within a reasonable time, the party receiving the proposal shall respond in writing to the other party. If the parties agree to the change, they will execute an amendment to the contract changing its terms.
- C. Without invalidating the contract, the City may order additions, deletions, or revisions in the work, provided that such changes are within the general scope of the contract work. Such changes may be accomplished by a contract amendment, if the City Commission and Contractor have agreed as to the effect, if any, of the changes on contract price. If the parties cannot agree, the Contractor shall proceed with the work, or, in the case of a deletion, cease activities with respect to the deleted work, subject to the Contractor's right to claim for additional compensation or time. Any such claim must be made in writing within 14 days. Additional compensation will be limited to Contractor's actual cost of the work, plus reasonable profit and overhead. Nothing in this section shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the contract or governing laws and regulations.

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Attachment 23

SANCTIONS AND PENALTIES

In the event of a breach of the terms of this Contract, the Contractor and its subcontractors will be subject to sanctions and penalties as may be imposed and remedies invoked as provided by rule, regulation, or order of the local, state, and federal agency, and as otherwise provided by law and other terms of this Contract.



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Attachment 24

PERFORMANCE AND PAYMENT BOND REQUIREMENTS

A. Security.

- (1) The Contractor must provide the required performance and payment bond or other acceptable security to the City within **ten (10) business days** of executing this Contract. Failure by the Contractor to provide the bond within **ten (10) business days** constitutes a default. Pursuant to Section 2-404 of the Code of City of North Port, Florida, upon default the City may immediately award the bid to the next lowest responsive and responsible bidder and recover from the original successful bidder the difference in cost between the original winning bid and the next lowest responsive and responsible bidder. The default is only curable at the option of the City.
- (2) In addition, the Contractor is responsible and bears all cost associated with recording the Performance and Payment Bond with the Sarasota County Clerk's Office. The Contractor must furnish the receipt of the recording and certified copy of the recorded bond to the Purchasing Division at the time of the pre-construction meeting. Such default is only curable at the option of the City.

B. Performance and Payment Bond. The Contractor must provide a Performance and Payment Bond, in the form prescribed in Florida Statutes Section 255.05, in the amount of one hundred percent (100%) of the Contract price, the costs of which are to be paid by the Contractor. The bond must be acceptable to the City only if the Surety Company:

- (1) Is licensed to do business in the State of Florida;
- (2) Holds a certificate of authority authorizing it to write surety bonds in the State of Florida;
- (3) Has twice the minimum surplus and capital required by the Florida Insurance Code at the time the invitation to bid is issued;
- (4) Is otherwise in compliance with the provisions of the Florida Insurance Code;
- (5) Holds a currently valid certificate of authority issued by the United States Department of Treasury under 31 U.S.C. §§ 9304-9308;
- (6) Has a current rating of at least Excellent (A or A-) as reported in the most current Best Key Rating Guide, published by A.M. Best Company, Inc., of 75 Fulton Street, New York, New York 10038; and
- (7) Has an underwriting limitation of at least two times the dollar amount of the Contract price.

C. Substitute Bond Required. If the Surety Company for any bond furnished by the Contractor files for bankruptcy, has a receiver appointed, is declared bankrupt, becomes insolvent, has an assignment made for the benefit of creditors, has its right to do business terminated in the State of Florida, or ceases to meet the requirements imposed by this Contract, the Contractor must, within **five (5) calendar days** thereafter, substitute another Bond and Surety Company, both of which are subject to the City's approval.

D. Surety Acceptance of Terms. By execution of the bond, the Surety Company acknowledges that it has read the surety qualifications and surety obligations imposed by this Contract and satisfies all conditions.



Attachment 25

PERFORMANCE AND PAYMENT BOND

In compliance with F.S. Section 255.05(10) and Code of the City of North Port Sec. 2-414

BOND NO.:	
BOND AMOUNT:	\$
	2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION
CONTRACTOR NAME:	
PRINCIPAL ADDRESS:	
PRINCIPAL PHONE NO.:	
SURETY COMPANY NAME:	
SURETY AGENT:	
PRINCIPAL ADDRESS:	
PRINCIPAL PHONE NO.:	
CITY NAME:	City of North Port, Florida
PRINCIPAL ADDRESS:	4970 City Hall Boulevard
	North Port, Florida 34286
CITY CONTACT PHONE NO.:	(941) 223.4138
CONTRACT NO.: (if applicable)	2025-22
PROJECT ADDRESS:	
(if applicable)	North Port, Florida _____
DESCRIPTION OF PROJECT:	
(if applicable)	
DESCRIPTION OF IMPROVEMENT:	

By this Bond, we, _____, as Principal ("Contractor") and _____, a corporation organized and existing under the laws of the State of _____, with its principal office in the City of _____, as Surety ("Surety") are held firmly bound unto the City of North Port, Florida, as Obligee ("City"), in the amount of _____ Dollars (\$_____), for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, personal representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____, entered into a Contract with City for _____

in accordance with drawings and specifications prepared by _____, which Contract is by reference made a part hereof, and is hereinafter referred to as the CONTRACT.

NOW, THEREFORE, THE CONDITION OF THIS BOND is such that if Contractor:

1. Performs the Contract dated _____, between Contractor and City for construction for the **2025-43 INFLOW AND INFILTRATION MITIGATION, COMMUNITY BLOCK GRANT-MITIGATION** the Contract being made a part of this bond by reference, at the times and in the manner prescribed in the Contract: and
2. Promptly makes payments to all claimants, as defined in Section 255.05(1), Florida Statutes, supplying Contractor with labor, materials, or supplies, used directly or indirectly by Contractor in the prosecution of the work provided for in the Contract: and
3. Pays City all losses, damages, expenses, costs, and attorney's fees, including appellate proceedings, that City sustains because of a default by Contractor under the Contract: and
4. Performs the guarantee of all work and materials furnished under the Contract for the time specified in the Contract, then this bond is void: otherwise it remains in full force.

Any action instituted by City under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes.

Any changes in or under the Contract documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this bond.

IN WITNESS WHEREOF, the said Contractor and Surety have signed and sealed this instrument as follows:

CONTRACTOR

By: _____

Title

Date

(SEAL)

SURETY

By: _____

(SEAL)

Title

Date

Any Claims under this bond may be addressed to
(name and address of Surety):

Telephone No: _____

Name and address of agent or representative in Florida if different from above:

Telephone No.: _____

Section 3 Compliance Information
(Construction Prime Contractor)

Local Government: City of North Port CDBG Grant #: IR025
RFB 2025-43 Inflow and Infiltration Mitigation
Project: Community Development Block Grant-Mitigation

Part A: Completed only by prime contractor if contract amount is at least \$100,000

Contractor Name: Inliner Solutions, LLC

1. Does the business qualify as a "Section 3 business concern" because: Yes No
a) it is at least 51% owned by Section 3 residents* √

OR

b) at least 30% of its permanent full-time employees are:
i) currently Section 3 residents* OR √
ii) were Section 3 residents* within first 3 years of employment √

OR

c) will at least 25% (dollar value) of construction subcontracts
(no material/supplies/equipment vendors unless they are also
installing same) be to businesses meeting (a) or (b) above? √

If yes, list any Section 3 subcontractors and subcontract amount:

Name: N/A Amount: \$

Name: Amount: \$

Name: Amount: \$

2. Will the contractor be hiring any additional staff (office or field) for this project? Yes √ No

If yes, what types of jobs (e.g., laborer, equipment operator), and how many additional hires estimated in each job type?

N/A

* **Section 3 resident** is a member of a family whose total household income does not exceed a certain amount depending on family size and county of residence. The local government will provide a form and the

information needed for each worker to make this determination on a “yes” or “no” basis without specifying exact total household income or income sources.

Note: This contract is funded with federal funds and this information is required for reporting purposes. See Section 3 portion of CDBG Supplemental Conditions for additional information.

Part B: Completed only by construction subcontractors if prime contract is at least \$100,000
(do not include equipment or material suppliers unless they are installing also)

Subcontractor Name: N/A Subcontract Amount :\$ N/A

1. Does the business qualify as a “Section 3 business concern” because: Yes No

a) it is at least 51% owned by Section 3 residents*

OR

b) at least 30% of its permanent full-time employees are:

i) currently Section 3 residents* OR

ii) were Section 3 residents* within first 3 years of employment

2. Will the subcontractor hire any additional staff (office or field) for this project? Yes No

If yes, what types of jobs (e.g., laborer, equipment operator, and how many additional hires estimated in each job type?

N/A

* **Section 3 resident** is a member of a family whose total household income does not exceed a certain amount depending on family size and county of residence. The local government will provide a form and the information needed for each worker to make this determination on a “yes” or “no” basis without specifying exact total household income or income sources.

Note: This contract is funded with federal funds and this information is required for reporting purposes. See Section 3 portion of CDBG Supplemental Conditions for additional information

SECTION 3 BUSINESS APPLICATION

Completed applications should be submitted with this bid.

If you have any questions on the application process, please contact
Valerie Malingowski, Grants Division Manager, 941-423-7001, vmalingowski@northportfl.gov

Section 3 Business Application

Section 3 Business Application Checklist:

- ☐ Complete Section 3 Business Application
- ☐ Organizational Information
 - Articles of Incorporation or Organization (as applicable to business type)
 - Assumed Business Name Certificate
 - Certificate of Good Standing or Active status (as applicable to business type)
 - Partnership Agreement (if applicable)
 - Organizational Chart with Job Titles and Duties
 - Evidence of Business License
 - Other Applicable Documentation
- ☐ Qualifying Section 3 Criteria (Check applicable qualifying criteria below and include all requested supporting documentation)
 - 51% or more owned by low- or very low-income individual;
 - 51% or more owned by a resident of public housing; or
 - 75% of all hours worked over the prior three months worked by Section 3 workers
- ☐ Other Pertinent Information
 - Insurance Certificates
 - Current Financial Statement
 - Statement of Ability to Comply with Public Policy
 - List of all contracts for the past two years
 - W-9 (see last page of this application)

Section 3 Business Application

Name of Business _____

Physical Address _____

City, State, Zip _____

Mailing Address, if different _____

City, State, ZIP _____

Owner's Name (Please include a copy of State ID or Driver's License) _____

Telephone Number, including area code _____

Email _____

Date Company was established _____

ORGANIZATIONAL INFORMATION

All questions must be answered and the data given must be clear and comprehensive. If necessary, questions may be answered on separate attached sheet(s).

The company is a: ☐ Sole Proprietorship ☐ Partnership ☐ Joint Venture
 ☐ Corporation (please enclose a copy of corporation papers and corporate seal)
 ☐ Limited Liability Company (LLC)

General type of work performed by your Company (i.e. general contracting, HVAC, etc):

Are you minority owned (MBE)? Yes ☐ No ☐ Woman owned (WBE)? Yes ☐ No ☐
(Optional – For reporting purposes only)

Is this business licensed to operate in the certifying locality? Yes ☐ No ☐ (Enclose a copy if yes)

Please check and attach the following Business Entity documents, as applicable:

Copy of Articles of Incorporation

☐ Assumed Business Name Certificate

Certificate of Good Standing

☐ Partnership Agreement

Organization Chart with titles & duties

☐ Other Documentation

Section 3 Business Application

The Applicant must have at least the following insurance coverage for Section 3 contract work:

- Commercial General Liability on an occurrence form for:
 - Bodily injury, and
 - Property damage liability

General Contractor limits of \$2,000,000 combined single limit each occurrence covering the Project specifically, and umbrella excess liability of \$5,000,000

Subcontractor limits will be \$1,000,000 combined single limit occurrence, and \$2,000,000 umbrella excess liability

- Worker's Compensation:
 - Statutory limits required by State Law
 - Employer's Liability: \$100,000
- Comprehensive Automobile Liability
 - Bodily Injury: \$1,000,000 Each Person
\$1,000,000 Each Occurrence
 - Property Damage: \$1,000,000 Each Occurrence

A copy of above insurance certificates must accompany this application. Coverage shall be maintained for the life of each contract or subcontract. Lapse of coverage may result in termination of contract and/or termination of approval to participate by the certifying entity.

The Applicant must have a satisfactory record of past work. Applicants with limited or no past performance will be accepted on a "probation" basis, and will not be awarded more than one contract at a time.

Please provide evidence of ability to perform successfully under the terms and conditions of other contracts:

- ☐ Current Financial Statement
- ☐ Statement of Ability to Comply with Public Policy
- ☐ List of all contracts for the past two (2) years

Section 3 Business Application

QUALIFYING SECTION 3 CRITERIA

The Applicant must satisfy at least one of the following minimum requirements to be qualified as a Section 3 Business Concern. Please check the appropriate box(es):

- ☐ At least 75% of all hours worked over the prior three-month period worked by Section 3 workers (attach supporting documentation)
- ☐ 51% or more owned by low- or very low-income individuals as determined by current HUD income limits for the area where the individual resides (<https://www.huduser.gov/portal/datasets/il.html>)

NAME & ADDRESS OF OWNER(S)	TITLE	% OWNER	ADJUSTED GROSS INCOME (Attach current proof of income)

- ☐ 51% or more owned by residents of public housing

NAME & ADDRESS OF OWNER(S)	TITLE	% OWNER	PUBLIC HOUSING RESIDENT (Attach current public housing lease)

Section 3 Business Application

Please sign the statement below certifying accuracy and authorizing the release of information to the certifying entity for the purpose of verifying your references. We have the right to request any additional information to validate information presented.

I certify that my answers are true and complete to the best of my knowledge. I hereby authorize the release of information to the certifying entity for the purpose of verifying my references.

Signature

Date

SAMPLE

Section 3 Business Application

FIELDS OF INTEREST AND EXPERIENCE

Please indicate the areas of interest and the length of experience within each capacity:

Construction-Related Services	Interest	Length of Experience	Non-Construction/Post-Construction Services	Interest	Length of Experience
Architecture			Appraisal Services		
Bricklaying			Archeology		
Carpentry			Building Inspection Services		
Cement/Masonry			Building Maintenance		
Demolition			Catering		
Drywall			Computers/IT		
Electrical			Courier Services		
Elevator Construction			Engineering		
Engineering			Janitorial		
Environmental Services			Landscaping		
Fencing			Legal Services		
Flooring Installation			Management Consulting		
Heating			Marketing/Photography		
Insulation/Siding			Printing		
Iron Works			Real Estate Services		
Landscaping			Security		
Machine Operation			Surveying Services		
Painting			Transportation		
Plastering			Other:		
Plumbing			Other:		
Roofing			Other:		
Other:			Other:		

What size of jobs in the areas indicated above are preferred?

Please list the suppliers with whom you do business (include the name, address and phone number):

Please list the Subcontractors with whom you regularly do business, if any, and indicate if they are Section 3 qualified*.

Section 3 Business Application

A. Carpentry:	_____	Y/N
B. Electrical:	_____	Y/N
C. Plumbing:	_____	Y/N
D. Roofing:	_____	Y/N
E. Masonry:	_____	Y/N
F. Mechanical:	_____	Y/N
G. Painting:	_____	Y/N
H. Other:	_____	Y/N
I. Other:	_____	Y/N
J. Other:	_____	Y/N

*Section 3 qualified businesses receive preference on federally funded projects

OTHER PERTINENT INFORMATION

Have you ever been convicted of violating Federal, State or Local Law in the course of discharging your duties as a contractor? YES _____ NO _____

If yes, please explain:

Section 3 Business Application

Have you ever been disbarred from participating as a contractor in any Federal, State or Local Housing program? YES _____ NO _____

If yes, please explain:

Are you a licensed lead-based paint abatement contractor? YES _____ NO _____

If yes, please provide a copy of all worker supervisor and contractor licenses.

Please complete and return the attached W-9 form (found on the last page of this application) along with this application.

REFERENCES

Name	Address	Phone number	Years Associated
Banks			
Trades			
Subcontractors			

City of North Port
Section 3 **Project** Implementation Plan

CERTIFICATION

I certify that all of the above information is correct and true to the best of my knowledge, under the penalty of law. I understand that this information will be used to determine my eligibility for the FloridaCommerce CDBG-MIT Grant Section 3 Program, which utilizes funds from the U.S. Department of Housing and Urban Development. The participating agencies do not discriminate against any person because of race, color, religion, sex, handicap, family status, or national origin. I understand that this application may be rejected if I withhold information requested or provide falsified information.

I understand that a Section 3 Business Concern certification is not an offer of employment. By signing this document I give the certifying entity permission to place my contact information on a list to be shared with businesses and community partners when they are hiring for Section 3 covered projects in the area. If awarded a HUD-funded contract, I agree to comply with all federal and local reporting requirements.

*Printed Name: Thomas Gottsegen *Title: Chief Legal Officer & Asst. Secretary

*Authorized Signature:  Date: 12/9/2025

*CORPORATE OFFICER OR PERSON AUTHORIZED TO SIGN BIDS AND CONTRACTS ON BEHALF OF THE COMPANY.

FOR INTERNAL USE ONLY

Date Application Received: _____ Reviewed By: _____ Date: _____

Contractor: Does _____ or Does Not _____ qualify as a Section 3 Business Concern

**Request for Taxpayer
Identification Number and Certification**

Go to www.irs.gov/FormW9 for instructions and the latest information.

**Give form to the
requester. Do not
send to the IRS.**

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type.
See Specific Instructions on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) Inliner Solutions LLC	
2 Business name/disregarded entity name, if different from above.	
3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. ☐ Individual/sole proprietor ☐ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate ☒ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) C Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. ☐ Other (see instructions)	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐	
5 Address (number, street, and apt. or suite no.). See instructions. 4520 North State Road 37	Requester's name and address (optional)
6 City, state, and ZIP code Orleans, IN 47452	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
			-				-			
or										
Employer identification number										
0	1	-	0	6	8	4	6	8	2	

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person *Robin Sharp*

Date 01/02/2025

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

Section 3 Project Plan

NOTE TO BIDDERS: You must return ALL applicable forms in this packet with your bid. Failure to do so may result in your bid being disqualified.

Section 3 Goals

Section 3 is a provision of the Housing and Urban Development (HUD) Act of 1968 that helps foster local economic development, neighborhood economic improvement, and individual self-sufficiency. The Section 3 program requires recipients of certain HUD financial assistance to provide job training, employment, and contracting, to the greatest extent feasible, for low- or very low-income residents in connection with projects and activities in their neighborhoods. Section 3 is race and gender-neutral and is NOT the same as WBE/MBE.

Contracts over \$200,000 trigger Section 3. When triggered, best efforts must be made to extend Section 3 opportunities to verified Section 3 residents and business concerns to meet these *minimum* numeric goals:

1. Twenty-five percent (25%) of the total hours on a Section 3 project must be worked by Section 3 workers; and
2. Five percent (5%) of the total hours on a Section 3 project must be worked by Targeted Section 3 workers.

Preference for Contracting with Section 3 Business Concerns

City of North Port is required by HUD Regulation 24 CFR Part 75 to make best efforts to contract with businesses that direct economic opportunities to Section 3 workers. As part of its qualitative efforts, FloridaCommerce has elected to institute a preference which stipulates that contract award shall be given to the bidder using the highest number of qualified Section 3 subcontractors and/or workers if the bid is reasonable and no more than ten percent (10%) higher than the lowest responsive bid from any qualified source. This benefit applies to ALL projects, even if Section 3 is not triggered.

Programmatic Responsibilities

Contractors and/or Subcontractors are expected to meet the minimum goals listed above, to the greatest extent feasible. (Note: Section 3 may not be required for all projects, but best efforts to comply with the minimum numerical goals are still highly recommended.) All efforts to utilize Section 3 businesses and workers should be documented, and this Section 3 Project Plan should be submitted for all relevant project bids.

Submit FORMS 1 & 2 for all projects or FORMS 1 – 5 for all Section 3-triggered projects (over \$200,000) at the time of the bid submission or application for funding.

City of North Port

FORM 1 – SECTION 3 ASSESSMENT AND CERTIFICATIONS

This form is required for ALL projects and must be submitted with bid or application for funding.

Project Information

Project Name: **RFB 2025-43 - Inflow and Infiltration Mitigation Community Development Block Grant-Mitigation**

Project Location or Address(es): **4970 City Hall, 3rd Floor, Suite 337, North Port, FL 34286**

Developer/Contactor Information:

Name of Firm: **Inliner Solutions, LLC**

Address: **2531 Jewett Lane, Sanford, FL 32771**

Authorized Representative: **Chris Currie**

Title: **Business Development Manager**

Phone: **407-421-5283**

Email: **chris.currie@puriscorp.com**

1. Check all that apply to your business:

- ☐ Your business is at least 51% owned and controlled by low- or very low-income persons
- ☐ Over 75% of the labor hours performed for your business over the past three-month period were performed by Section 3 workers
- ☐ Your business is at least 51% owned and controlled by current public housing residents or residents who currently live in Section 8-assisted housing
- ☒ None of the above

2. Will you be hiring new employees or providing new training opportunities because of this contract?

☐ Yes ☒ No

3. Will you be using subcontractors to complete this project?

☒ Yes ☐ No

4. Is your bid/contract amount greater than \$200,000?

☒ Yes ☐ No

If response to item 4 above is "YES," Section 3 requirements will be fully enforced on this project. Failure to comply may result in the suspension of funding. Please complete the certifications below and submit FORMS 1-5 with your bid or application for funding.

If NO, Section 3 participation is strongly encouraged but not required. Please attempt to meet the Section 3 goals to the greatest extent feasible. You must still complete the certifications below as applicable and return FORMS 1 and 2 with your bid or application for funding.

Certifications		YES	NO	N/A
All Projects:	By completing and signing this form, I agree to comply with all applicable requirements of the Section 3 of the Housing and Urban Development Act of 1968 (24 CFR Part 75)	☒	☐	
	I understand that I must complete and submit FORMS 1 and 2 and submit them with my bid even if my bid is under \$200,000.	☒	☐	
Projects over \$200K:	I have included/will include the Section 3 Clause (FORM 5) in all subcontracts for which Section 3 compliance is required.	☒	☐	☐
	I understand that I am required to submit quarterly and final Section 3 reports (FORM 6), associated forms as applicable (FORMS 2, 3 and 4) and supporting documentation.	☒	☐	☐
	I agree that my company has made and will continue to make efforts "to the greatest extent feasible" to comply with Section 3 as required by HUD.	☒	☐	☐
	I understand the minimum numerical goals for Section 3 participation and I have completed FORMS 1 through 4 and attached them to my bid.	☒	☐	☐

I declare that all statements contained in this form and any accompanying documents are true and correct, and made with full knowledge that all statements given are subject to investigation and that any false or dishonest answer to any question may be grounds for denial or revocation of funding or other penalties as prescribed under 18

City of North Port

U.S. Code § 1001



Authorized Representative Signature Thomas Gottsegen
Chief Legal Officer & Asst. Secretary

12/9/2025

Date

City of North Port
Section 3 *Project* Implementation Plan
FORM 2 – SUBCONTRACTOR INFORMATION, VERSION (1, 2, 3)

This form is required for ALL projects (regardless of whether Section 3 is triggered) and must be submitted with bid or application for funding. If project is over \$200,000 in HUD funds, this form must be updated and re-submitted at the time of contract execution and again with the final Section 3 compliance report.

Project Name	Contract Execution Date	Construction Start Date	Today's Date
Inflow and Infiltration Mitigation Community Development Block Grant-Mitigation	TBD	TBD	12/9/2025

Check the box that applies and complete the table if applicable:

- ☐ This project WILL NOT utilize subcontractors.
- ☒ This project MAY utilize the following subcontractors:

No.	Sect3 Bus.	Subcontractor Name	Subcontractor Address and Phone Number	Trade	Subcontract Amount
1		National Water Main Cleaning Company	15551 Okeechobee Boulevard, Loxahatchee Groves, FL 33470	Cleaning/CCTV	\$54,013.50
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

City of North Port

Section 3 Project Implementation Plan
FORM 3 – LIST OF PERMANENT EMPLOYEES, VERSION (1, 2)

This form is required for all Section 3-triggered projects (over \$200,000) and must be submitted with bid or application for funding and again with the final Section 3 compliance report.

Project Name	Contract Execution Date	Construction Start Date	Today's Date
Inflow and Infiltration Mitigation Community Development Block Grant-Mitigation	TBD	TBD	12/9/2025

Please list all current permanent employees (both full and part-time) employed by your company (or local/regional office) as of the signature date on FORM 1, as well as employees of all subcontractors working on this project. Use additional sheets as necessary. A computer-generated employee registry can be provided in lieu of this form if it includes the worker's name, employer and job category and indicates Section 3/targeted Section 3 status.

No.	Name of Worker	Employer	Job Category/Trade	Section 3 Worker (Y/N)	Targeted Section 3 Worker (Y/N)
1	N/A	N/A	N/A	N/A	N/A
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Please note that your business may be eligible for Section 3 Business certification if at least 75% of your labor hours performed on all contracts over the past three-month period were performed by employees who meet one of the following categories below:

- The worker lives within one mile of the Section 3 project (or, if fewer than 5,000 people live within one mile of the Section 3 project, within a circle centered on the Section 3 project that is sufficient to encompass a population of 5,000 people according to the most recent U.S. Census);
- The worker is a HUD YouthBuild participant; or
- The worker's income for the previous or annualized calendar year is below 80% of the current area median income for the area in which the worker resides. (Use the worker's annual gross income based on AMI for a single-person household.) HUD income limits can be found at <https://www.huduser.gov/portal/datasets/il.html>.)

City of North Port

Section 3 Project Implementation Plan FORM 4— DOCUMENTATION OF QUALITATIVE EFFORTS

This form is required for all Section 3-triggered projects (over \$200,000) and must be submitted with bid or application for funding, as well as with all quarterly or final compliance reports that indicate numeric goals were not met. Please fill out this form completely. Attach additional pages if needed.

Project Name	Contract Execution Date	Construction Start Date	Today's Date
Inflow and Infiltration Mitigation Community Development Block Grant-Mitigation	TBD	TBD	TBD

1. Describe all efforts made to direct the employment and other economic opportunities generated by HUD financial assistance for housing and community development programs, to the greatest extent feasible, to Section 3 workers. Attach additional pages if needed.

Attach supporting documentation such as:

- Copies of all publications, notices, pictures of posted notices, and other outreach materials.
- List of all Section 3 workers that responded to your outreach efforts (e.g., submitted job applications, phone logs, etc.); were any of them hired? If not, please explain why.

N/A

2. Describe all efforts made to notify Section 3 businesses of any subcontracting opportunities generated by HUD financial assistance for this project, to the greatest extent feasible. Attach additional pages if needed.

Attach supporting documentation such as:

- Section 3 Business List used in solicitation. Must have been provided by FloridaCommerce prior to solicitation and should be no more than 30 days old at the time of solicitation.
- List of Section 3 business included in solicitation and documentation of efforts (emails, letters, phone, logs, etc.).
- List of Section 3 businesses that responded to your solicitation and/or outreach efforts; were any of them hired? If not, please explain why.
- Copies of all publications, notices, pictures of posted notices, and any other outreach material utilized.

1. Advertisements - Dodge Trade Ad, PURIS Ad, SBA ad (Attempted, site not available)
2. Outreach - Emails, Phone Calls and Fax Solicitations

See Attached - Proof of Good Faith Efforts

City of North Port

Section 3 **Project** Implementation Plan

FORM 4 – DOCUMENTATION OF QUALITATIVE EFFORTS (CONTINUED)

3. Describe all additional qualitative efforts made to comply with Section 3 requirements. See below for examples. Attach all applicable supporting documentation.

1. Provide technical assistance to help Section 3 business concerns understand and bid on contracts
2. Divide contracts into smaller jobs to facilitate participation by Section 3 business concerns
3. Promote use of business registries designed to create opportunities for disadvantaged and small businesses

4. If there are employment opportunities associated with your project, include a draft of the proposed signage. Section 3 signage should be posted at the construction site. Signage must be large enough to be visible from the street. The sign must (a) identify the name of the project, (b) state the project is a HUD Section 3 Project, and (c) include the name, phone number and email address of an appropriate point of contact regarding employment opportunities.

Examples of Qualitative Efforts

- Engage in outreach efforts to generate job applicants who are Targeted Section 3 workers
- Provide training or apprenticeship opportunities
- Provide technical assistance to help Section 3 workers compete for jobs (e.g., resume assistance, coaching)
- Assist or connect Section 3 workers with drafting resumes, preparing for interviews, and finding job opportunities
- Hold one or more job fairs
- Provide or refer Section 3 workers to services supporting work readiness and retention (e.g., work readiness activities, interview clothing, test fees, transportation, childcare)
- Provide assistance to apply for or attend community college, a four-year educational institution, or vocational/technical training
- Help Section 3 workers to obtain financial literacy training and/or coaching
- Engage in outreach efforts to identify and secure bids from Section 3 business concerns
- Provide technical assistance to help Section 3 business concerns understand and bid on contracts
- Divide contracts into smaller jobs to facilitate participation by Section 3 business concerns
- Provide bonding assistance, guaranties, or other efforts to support viable bids from Section 3 business concerns
- Promote use of business registries designed to create opportunities for disadvantaged and small businesses
- Outreach, engagement, or referrals with the state one-stop system as defined in Section 121(e)(2) of the Workforce Innovation and Opportunity Act
- Other:

City of North Port

Section 3 Project Implementation Plan
FORM 5 – SECTION 3 CONTRACT CLAUSE

All Section 3 covered contracts and subcontracts must include the following clause:

- I. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 USC.1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance, or HUD-assisted projects covered by Section 3, shall to the greatest extent feasible be directed to low and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- II. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 75, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 75 regulations.
- III. The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 Clause and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- IV. The contractor agrees to include this Section 3 Clause in every subcontract subject to compliance with regulations in 24 CFR part 75, and agrees to take appropriate actions, as provided in an applicable provision of the subcontract or in this Section 3 Clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 75. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 75.
- V. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 75 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 75.
- VI. Noncompliance with HUD's regulations in 24 CFR part 75 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- VII. With respect to work performed in connection with Section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 USC 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

RFB 2025-43
INFLOW AND INFILTRATION MITIGATION COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION

Section 3 *Project* Implementation Plan
FORM 7 – SECTION 3 BUSINESS OUTREACH FORM

Please complete this form to determine if your business may qualify as a Section 3 Business. Businesses that qualify will be contacted by City of North Port Section 3 Coordinator to complete a Section 3 Business Application and asked to provide additional documentation to verify their status as a Section 3 Business.

What is Section 3?

Section 3 is a provision of the Housing and Urban Development Act of 1968 (24 CFR Part 75) that requires recipients of certain HUD financial assistance, to the greatest extent possible, to provide job training, employment, and contract opportunities for low- or very low-income residents in connection with projects and activities in their neighborhood.

A business can qualify as Section 3 if it meets one of the following criteria:

- A. It is at least 51% owned and controlled by low- or very low-income persons;
- B. Over 75% of the labor hours performed for the business over the past three-month period were performed by workers who met at least one of the criteria below; or
- C. It is at least 51% owned and controlled by current public housing residents or residents who currently live in Section 8-assisted housing.

Workers must meet one of the following criteria for a business to qualify as Section 3 under item B above:

- Reside within one mile of the Section 3 project (or, if fewer than 5,000 people live within one mile of the Section 3 project, within a circle centered on the Section 3 project that is sufficient to encompass a population of 5,000 people according to the most recent U.S. Census);
- Be a HUD YouthBuild participant; or
- Income for the previous or annualized calendar year is below 80% of the current area median income for the area in which the worker resides. (Use the worker's annual gross income based on AMI for a single-person household.) HUD income limits can be found at <https://www.huduser.gov/portal/datasets/il.html>.)

Subcontractor Information

Company Name: Inliner Solutions, LLC		
Contact Person: Chris Currie		
Address: 2531 Jewett Lane		
City: Sanford	State: FL	Zip: 32771
Phone: 407-421-5283	Email: chris.currie@puriscorp.com	

I ☐ have reviewed the above information and my business MAY QUALIFY as a Section 3 Business. Please contact me about completing an application.

I ☒ have reviewed the above information and my business DOES NOT QUALIFY as a Section 3 Business.

Signature of Business Owner **Thomas Gottsegen**
Chief Legal Officer & Asst. Secretary

12/9/2025

Date

Please return completed forms to:

RFB 2025-43
INFLOW AND INFILTRATION MITIGATION COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION

Section 3 *Project* Implementation Plan
FORM 8— SECTION 3 WORKER OUTREACH FORM

Please complete this form to determine if you may qualify as a Section 3 or Targeted Section 3 Worker. Workers who qualify will be contacted by City of North Port Section 3 Coordinator to complete a Section 3 Worker Application and asked to provide additional documentation to verify their status as a Section 3 or Targeted Section 3 Worker.

What is Section 3?

Section 3 is a provision of the Housing and Urban Development Act of 1968 (24 CFR Part 75) that requires recipients of certain HUD financial assistance, to the greatest extent possible, to provide job training, employment, and contract opportunities for low- or very low-income residents in connection with projects and activities in their neighborhood.

A worker can qualify as Section 3 if they meet one of the following criteria:

- Are employed by a Section 3 business concern;
- Are a HUD YouthBuild participant; or
- Their income for the previous or annualized calendar year is below 80% of the current area median income for the area in which the worker resides. (Use the worker's annual gross income based on AMI for a single-person household.) HUD income limits can be found at <https://www.huduser.gov/portal/datasets/il.html>.)

A worker can qualify as targeted Section 3 if they meet one of the following criteria:

- Are employed by a Section 3 business concern.
- Are a HUD YouthBuild participant; or
- Reside within one mile of the Section 3 project (or, if fewer than 5,000 people live within one mile of the Section 3 project, within a circle centered on the Section 3 project that is sufficient to encompass a population of 5,000 people according to the most recent U.S. Census);

Worker Information

Name: N/A		
Employer Name:		
Address:		
City:	State:	Zip:
Phone:	Email:	

I ☐ have reviewed the above information and I MAY QUALIFY as a Section 3 or Targeted Section 3 worker. Please contact me about completing an application.

I ☒ have reviewed the above information and I DO NOT QUALIFY as a Section 3 or Targeted Section 3 worker.

Signature  Thomas Gottsegen - Chief Legal Officer & Asst. Secretary

12/9/2025

Date

Please return completed forms with bid:

TECHNICAL SPECIFICATIONS
INFLOW AND INFILTRATION MITIGATION
CITY WORK ASSIGNMENT NO. 2025-43



PREPARED FOR:

CITY OF NORTH PORT
6644 West Price Boulevard
North Port, FL 34291



PREPARED BY:

CHA Consulting, INC.
2505 North Rocky Point Drive
Suite 145
Tampa, Florida 33607

ISSUED FOR CONSTRUCTION
MARCH 2026

CHA PROJECT NUMBER 093377

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SECTION 011000

SUMMARY OF WORK

PART 1 - GENERAL

1.1 LOCATION OF WORK

- A. The work of this contract is located in easements, rights-of-way, or on property owned by the City of North Port.

1.2 SCOPE OF WORK

- A. The Contractor shall furnish all labor, materials, equipment, tools, services, fuel, power, water, shop drawings and incidentals to complete construction of all the work in good faith for the fulfillment of the contract in strict conformance with the contract documents. All materials shall be furnished by the Contractor unless otherwise specified within the contract documents.
- B. The Contractor shall perform the work complete, in place, and ready for continuous service, and shall include repairs, testing, permits, cleanup, replacements and restoration required as a result of damages caused during this construction.
- C. All materials, equipment, skills, tools and labor which is reasonably and properly inferable and necessary for the proper completion of the work in a substantial manner and in compliance with the requirements stated or implied by these Specifications or Plans shall be furnished and installed by the Contractor without additional compensation, whether specifically indicated in the Contract Documents or not. Materials shall be furnished by the Contractor unless otherwise specified within the contract documents.
- D. The Contractor shall comply with all municipal, county, state, federal, and other codes which are applicable to the proposed construction work.
- E. The Contractor shall perform the work for providing construction services in accordance with the Inflow and Infiltration Mitigation Community Development Block Grant-Mitigation rehabilitation of sanitary sewers and manholes. The City intends to select one Contractor to perform the construction services as outlined in the project documents. The types of rehabilitation work anticipated include sewer line cleaning, gravity sewer smoke testing, manhole rehabilitation, manhole lining systems, cured-in-place pipe lining and spot repairs, and grouting lateral connections.

- F. The Contractor is responsible for field measurement and review of existing conditions prior to submitting bid. This shall be performed during a pre-bid site visit. No additional site visits prior to bid will be allowed.

1.3 SUMMARY OF WORK

- A. Furnish all labor, materials, equipment and incidentals required to construct the d Infiltration (I/I) rehabilitation of sanitary sewers and manholes for the City of North Port. Materials shall be furnished by the Contractor unless otherwise specified within the contract documents.

- B. The work includes, but is not necessarily limited to, the following:

Providing construction services in accordance with the Inflow and Infiltration (I/I) Mitigation Community Development Block Grant-Mitigation rehabilitation of sanitary sewers and manholes. The City intends to select one Contractor to to perform the construction services as outlined in the project documents. The types of rehabilitation work anticipated include sewer line cleaning, gravity sewer smoke testing, manhole rehabilitation (which includes post-rehabilitation CCTV inspection), manhole lining system, cured-in-place pipe lining and spot repairs, and grouting lateral connections.

1.4 WORK SEQUENCE

- A. All work to be done under this contract shall be done with minimum inconvenience to the public and the existing collection systems. The Contractor shall coordinate his/her work with the City and Engineer such that the existing facilities are maintained in operation at all times or provide a by-pass to divert the flow during the construction.

- B. The Contractor shall submit a working schedule detailing the order in which the Contractor proposes to perform the work. The working schedule shall be submitted at the pre-construction meeting and comply with the requirements of Section II – General Provisions.

1. The Contractor's schedule shall allow enough time for the City and Engineer to review necessary submittals. The schedule shall allow a minimum of two (2) weeks for the City and Engineer to review and comment on any submittal.
2. The Contractor's schedule shall take into consideration the performance of construction efforts to include the periods between 7:00 AM and 3:30 PM on weekdays. No work shall occur on weekends, legal holidays, or on weekdays between the hours of 3:30 PM and 7:00 AM without prior written authorization from the City. City holidays are:

- a. New Year's Day: January 1

- b. Martin Luther King, Jr., Day: 3rd Monday in January
 - c. President's Day: 3rd Monday in February
 - d. Memorial Day (observed): Last Monday in May
 - e. Juneteenth: June 19
 - f. Independence Day: July 4
 - g. Labor Day: 1st Monday in September
 - h. Columbus Day: 2nd Monday in October
 - i. Veterans Day: November 11
 - j. Thanksgiving Day: 4th Thursday in November
 - k. Day after Thanksgiving: Friday after 4th Thursday in November
 - l. Christmas Eve: December 24
 - m. Christmas Day: December 25
3. The general sequence of work is listed below.
- a. Maintenance of Traffic (MOT) plan submittal. The Contractor will be required to submit a Maintenance of Traffic Plan (MOT) that is signed/sealed by Florida licensed professional engineer or prepared by someone who possesses FDOT MOT credentials. Submittal of the Maintenance of Traffic plan is in accordance with Section 013000 – Shop Drawings, Submittals, and Samples, and in accordance with FDOT Standards.
 - b. Shop drawing submittal and review. Refer to Section 013000 – Shop Drawings, Submittals, and Samples.
 - c. Mobilization of equipment and personnel to the site.
 - d. Construction of Inflow and Infiltration (I/I) rehabilitation of sanitary sewers and manholes.
 - e. Completion of final connections to existing mains.
 - f. Submittal of as-built drawings.

- g. Complete site restoration and substantial completion walk through.
 - h. Complete punch list items and final project closeout.
4. The Contractor's schedule shall be reviewed and approved by the City prior to beginning construction. Any subsequent changes in the sequencing of work shall be made only after a revised schedule is submitted by the Contractor and approved by the City.

1.5 SUBSTANTIAL COMPLETION

- A. The work, or any separable parts thereof, identified herein shall be deemed substantially completed at such time that all incidental requirements necessary to enable the City to continuously and successfully utilize the work or separable part thereof, for the purposes of which it is intended are completed.
- B. The contract times of substantial completion for the work shall be as identified in the Contract/Agreement.

1.6 CONSTRUCTION AREAS

- A. Work areas shall be limited by the property limits and easements shown on the Plans.
- B. Contractor shall limit his use of the construction areas for work and for storage, to allow for:
 - 1. Work by other contractors
 - 2. City use
- C. Coordinate use of work site with City.
- D. Assume full responsibility for the protection and safekeeping of products under this contract, stored on the site. Assume full responsibility for adequacy of the materials and equipment.
- E. The Contractor shall coordinate the work of all subcontractors.

1.7 PLANS AND SPECIFICATIONS

- A. Specifications
 - 1. The Technical Specifications consist of three parts: General, Products, and Execution. The General Section contains General Requirements which govern the work. Products and Execution modify and supplement

these by detailed requirements of the work and shall always govern whenever there appears to be a conflict.

B. Intent

1. All work called for in the Specifications applicable to this contract, but not shown on the Plans in their present form, or vice versa, shall be of like effect as if shown or mentioned in both. Work not specified in either the Plans or in the Specifications but involved in carrying out their intent or in the complete and proper execution of the work, is required and shall be performed by the Contractor as though it were specifically delineated or described.
2. The apparent silence of the Specifications as to any detail, or the apparent omission from them of a detailed description concerning any work to be done and materials to be furnished, shall be regarded as meaning that only the best general practice is to prevail and that only material and workmanship of the best quality is to be used, and interpretation of these Specifications shall be made upon that basis.
3. The inclusion of the General Requirements (or work specified elsewhere) in the General part of the Specifications is only for the convenience of the Contractor and shall not be interpreted as a complete list of related Specification Sections.

1.8 NOISE ABATEMENT

- A. This Project shall be executed in accordance with all Noise Ordinances of the City of North Port. All equipment and machinery shall be equipped with exhaust mufflers maintained in good working order to reduce operation noise to minimum levels. Operation of equipment and machinery will be limited to the hours between 7:00 AM and 3:30 PM during regular work days, unless permission is granted in advance by the City based on a critical need for the operation.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 011050

GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

A. Description

1. The work to be done consists of the furnishing of all labor, materials and equipment, and the performance of all work included in this Contract. The summary of the work is presented in Section 011000.

B. Work Included

1. The Contractor shall furnish all labor, superintendence, quality control, materials, power, light, heat, fuel, water, tools, appliances, equipment, supplies, and other means of construction necessary or proper for performing and completing the work. He shall obtain and pay for all required permits except permits to be provided by City as specified in Section 016500. He shall perform and complete the work in the manner best calculated to promote rapid construction consistent with safety of life and property and to the satisfaction of the City, and in strict accordance with the Contract Documents. The Contractor shall clean up the work and maintain it during and after construction, until accepted, and shall do all work and pay all costs incidental thereto. He shall repair or restore all structures and property that may be damaged or disturbed during performance of the work at his own cost, risk, and as approved by the City.
2. The cost of incidental work described in these General Requirements, for which there are no specific Contract Items, shall be considered as part of the general cost of doing the work and shall be included in the prices for the various Contract Items. No additional payment will be made therefore.
3. The Contractor shall provide and maintain tools, and equipment as may be necessary, at the direction of the City, to perform in a satisfactory and acceptable manner all the work required by this Contract. Only equipment of established reputation and proven efficiency shall be used. The Contractor shall be solely responsible for the adequacy of his workmanship, materials and equipment, prior approval of the City notwithstanding.

4. The Contractor shall remove, demolish and dispose of all equipment, piping, asphalt, rock and appurtenances as shown on the Plans and required to complete the work. No additional payment will be made for additional demolition or disposal work, not specifically specified on the plans as required, to complete the work.
5. The Contractor shall perform all work in accordance with applicable local, state, and federal codes and regulations.

C. Public Utility Installations and Structures

1. Public utility installations and structures shall be understood to include all poles, tracks, pipes, wires, conduits, vaults, manholes, and all other appurtenances and facilities pertaining thereto whether owned or controlled by the City, other governmental bodies or privately owned, used to provide gas, electricity, telephone, sewerage, drainage, water or other public or private property which may be affected by the work shall be deemed included hereunder.
2. The Contract Documents contain data relative to existing public or private utility installations and structures above and below the ground surface. These data are not guaranteed as to their completeness or accuracy and it is the responsibility of the Contractor to make his own investigations to inform himself fully of the character, condition and extent of all such installations and structures as may be encountered and as may affect the construction operations.
3. The Contractor shall protect all public or private utility installations and structures from damage during the work. Access across any buried installation or structure shall be made only in such locations and by means approved by the Utility Owner. The Contractor shall so arrange his operations as to avoid any damage to these facilities. All required protective devices and construction shall be provided by the Contractor at his expense. All existing utilities damaged by the Contractor which are shown on the Plans or have been located in the field by the utility shall be repaired by the Contractor, at his expense, as directed by the Utility Owner. No separate payment shall be made for such protection or repairs to public utility installations or structures.
4. Public utility installations or structures owned or controlled by the City or other governmental body which are shown on the Plans to be removed, relocated, replaced or rebuilt by the Contractor shall be considered as a part of the general cost of doing the work and shall be included in the prices bid for the various contract items. No separate payment shall be made therefor.
5. Where public utility installations or structures owned or controlled by the

City or other governmental body are encountered during the course of the work, and are not indicated on the Plans or in the Specifications or have been located in the field by the utility, and when, at the direction of the City, removal, relocation, replacement or rebuilding is necessary to complete the work under this Contract, such work shall be accomplished by the utility having jurisdiction, or such work may be approved, in writing by the City, for the Contractor to accomplish. If such work is accomplished by the utility having jurisdiction it will be carried out expeditiously and the Contractor shall give full cooperation to permit the utility to complete the removal, relocation, replacement or rebuilding as required. If such work is accomplished by the Contractor, it will be in accordance with the General Conditions. Damage to any utilities, whether shown on the Plans or not, which, in the opinion of the City, is caused by carelessness on the part of the Contractor shall be repaired at the Contractor's expense. Any delays ensuing from this damage will be considered inexcusable.

6. All City and other governmental utility departments and other owners of public utilities which may be affected by the work will be informed in writing by the Contractor within two weeks after the execution of the Contract or Contracts covering the work. Such notice will set out, in general, and direct attention to the responsibilities of the City and other governmental utility departments and other owners of public utilities for such installations and structures as may be affected by the work and will be accompanied by one set of Plans and Specifications covering the work under such Contract or Contracts.
7. In addition to the general notice given, the Contractor shall give written notice to City and other governmental utility departments and other owners of public utilities of the location of his proposed construction operations, at least one (1) week in advance of breaking ground in any area or on any unit of the work. This can be accomplished by making the appropriate contact with the Sunshine 811.
8. The maintenance, repair, removal, relocation or rebuilding of public utility installations and structures, when accomplished by the Contractor as herein provided, shall be done by methods approved by the utility owner at no additional cost.
9. Contractor to perform daily watering and use street sweepers daily to monitor and control dust during construction. Contractor to perform daily cleanup of entire project area and with no trash or debris left behind.

1.2 PLANS AND SPECIFICATIONS

A. Plans

1. The Plans referred to in the Contract Documents bear the general project name and number as shown in the Notice to Bidders (Advertisement).
2. When obtaining data and information from the Plans, figures shall be used in preference to scaled dimensions, and large-scale drawings in preference to small scale drawings.

B. Copies Furnished to Contractor

1. After the Contract has been executed, the Contractor will be furnished with an electronic copy of the contract documents. Hard/paper copies of the Plans and Specifications, when requested, may be furnished to the Contractor at cost of production.
2. The Contractor shall furnish each of the subcontractors, manufacturers, and material suppliers such copies of the Contract Documents as may be required for their work.

C. Supplementary Drawings

1. When, in the opinion of the City or Engineer, it becomes necessary to explain more fully the work to be done or to illustrate the work further or to show any changes which may be required, drawings known as Supplementary Drawings, with specifications pertaining thereto, will be prepared by the Engineer and electronic copies thereof will be given to the Contractor.

D. Contractor to Check Plans and Data

1. Contractor shall verify all dimensions, quantities and details shown on the Plans, Supplementary Drawings, Schedules, Specifications or other data received from the Engineer or City, and shall notify him of all errors, omissions, conflicts, and discrepancies found therein as soon as found and in a timely manner. Contractor shall get his own geotechnical information if he/she deems it necessary. Failure to discover or correct errors, conflicts or discrepancies shall not relieve the Contractor of full responsibility for unsatisfactory work, faulty construction or improper operation resulting therefrom nor from rectifying such conditions at his own expense. He will not be allowed to take advantage of any errors or omissions, as full instructions will be furnished by the City, should such errors or omissions be discovered.
2. All schedules are given for the convenience of the Engineer and the Contractor and are not guaranteed to be complete or final. The Contractor shall assume all responsibility for the making of estimates of the size, kind, and quality of materials and equipment included in work to be done under the Contract.

1.3 MATERIALS AND EQUIPMENT

A. Manufacturers

1. No manufacturer will be approved for any materials to be furnished under this Contract unless he shall be of good reputation and have a plant of ample capacity. He shall, upon the request of the City, be required to submit evidence that he has manufactured a similar product to the one specified and that it has been previously used for a like purpose for a sufficient length of time to demonstrate its satisfactory performance.
2. All communications with the manufacturers or subcontractors shall be through the Contractor, unless the Contractor shall request, in writing to the City, that the Manufacturer or subcontractor deal directly with the City. Any such communications shall not in any way release the Contractor from his full responsibility under this Contract.

B. Delivery, Storage and Handling

1. The Contractor shall deliver materials in ample quantities to insure the most speedy and uninterrupted progress of the work to complete the work within the allotted time. The Contractor shall also coordinate deliveries in order to avoid delay in, or impediment of, the progress of the work of any other contractor, subcontractor or the City.
2. The Contractor shall deliver materials and equipment in Manufacturer's original unopened and undamaged containers with legible labeling. Materials and equipment shall be stored in such a manner as to prevent damage from environment and construction operations. Handling shall be in accordance with Manufacturer's requirements.
3. The Contractor shall store materials and equipment removed from the existing sanitary sewer, potable water & stormwater system in onsite locations designated by the City. Materials and equipment shall be stored in such a manner as to prevent damage from environment and construction operations. Handling shall be in accordance with Manufacturer's requirements.

C. Tools and Accessories

1. Contractor shall have the Manufacturer, unless otherwise stated in the Contract Documents, furnish with each type, kind or size of equipment, one complete set of suitably marked high grade special tools and appliances which may be needed to adjust, operate, maintain or repair the equipment. Special tools are defined as any tools specifically manufactured for use with the Manufacturer's equipment. Such tools and appliances shall be furnished in approved painted steel cases,

properly labeled and equipped with good grade cylinder locks and duplicate keys.

2. Spare parts shall be furnished by the Contractor when specified in individual specification sections.
3. Each piece of equipment shall be provided with a substantial nameplate, securely fastened in place and clearly inscribed with the Manufacturer's name, year of manufacture, serial number, weight and principal rating data.

D. Installation of Equipment

1. The Contractor shall have on hand proper equipment and machinery of ample capacity to facilitate the work and to handle all emergencies normally encountered in work of this character.
2. Equipment shall be erected in a neat and workmanlike manner on the foundations at the locations and elevations shown on the Plans, unless approved otherwise by the City or Engineer during installation. All equipment shall be correctly aligned, leveled and adjusted for satisfactory operation and shall be installed so that proper and necessary connections can be made readily between the various units.
3. The Contractor shall furnish, install and protect all necessary anchor and attachment bolts and all other appurtenances needed for the installation of the devices included in the equipment specified. Anchor bolts shall be as approved by the City or Engineer and made of ample size and strength for the purpose intended. Substantial templates and working drawings for installation shall be furnished.
4. The Contractor shall, at his own expense, furnish all materials and labor for, and shall properly bed in non shrink grout, each piece of equipment on its supporting base that rests on masonry foundations. Grout shall completely fill the space between the equipment base and the foundation. All metal surfaces coming in contact with concrete or grout shall be coated.

E. Service of Manufacturer's Engineer

1. The Contract prices for materials and equipment furnished under this Contract shall include the cost of furnishing a competent and experienced Engineer or Superintendent (as required by equipment specifications sections) who shall represent the Manufacturer and shall assist the Contractor, when required, to install, adjust, test and place in operation the equipment in conformity with the Contract Documents. Prior to placing the equipment in operation, such Engineer or

Superintendent shall make all adjustments and tests required and specified by the City or Engineer to prove that such equipment is properly installed and in satisfactory operating condition, and shall instruct such personnel as may be designated by the City or Engineer in the proper operation and maintenance of such equipment. The Contractor shall provide O&M Manuals as applicable to the project.

1.4 INSPECTION AND TESTING

A. General

1. Inspection and testing of materials will be performed by the Contractor unless otherwise specified.
2. For tests specified to be made by the Contractor, the testing personnel shall make the necessary inspections and tests and the reports thereof shall be in such form as will facilitate checking to determine compliance with the Contract Documents. Certified electronic copies of the reports shall be submitted and authoritative certification thereof must be furnished to the City as a prerequisite for the acceptance of any material or equipment.
3. If, in the making of any test of any material or equipment, it is ascertained by the City that the material or equipment does not comply with the Contract, the Contractor will be notified thereof and he will be directed to refrain from delivering said material or equipment, or to remove it promptly from the site or from the work and replace it with acceptable material, without cost to the City.
4. Tests of electrical and mechanical equipment and appliances shall be conducted in accordance with recognized test codes of the ANSI, ASME, or the IEEE, or as stated herein. The most stringent test will be used in case of any discrepancy.
5. The Contractor shall be fully responsible for the proper operation of equipment during tests and instruction periods and shall neither have nor make any claim for damage which may occur to equipment prior to the time when the City formally takes over the operation thereof.

B. Costs

1. The costs of inspection and testing of materials furnished under this Contract shall be borne by the Contractor, unless otherwise expressly specified.
2. The cost of shop and field tests of equipment and of certain other tests specifically called for in the Contract Documents shall be borne by the

Contractor and such costs shall be deemed to be included in the Contract price.

3. Materials and equipment submitted by the Contractor as the equivalent to those specifically named in the Contract may be tested by the City for compliance. The Contractor shall reimburse the City for the expenditures incurred in making such tests on materials and equipment which are rejected for non-compliance.

C. Preliminary Field Tests of Equipment

1. As soon as conditions permit, the Contractor shall furnish all labor, materials, and instruments and shall make preliminary field tests of equipment. If the preliminary field tests disclose any equipment furnished under this Contract which does not comply with the requirements of the Contract Documents, the Contractor shall, prior to the acceptance tests, make all changes, adjustments and replacements required. The furnishing Contractor shall assist in the preliminary field tests as applicable.

D. Final Field Tests

1. Upon completion of the work and prior to final payment, all equipment and piping installed under this Contract shall be subjected to acceptance tests as specified or required to prove compliance with the Contract Documents.
2. The Contractor shall furnish labor, fuel, energy, water and all other materials, equipment and instruments necessary for all acceptance tests, at no additional cost to the City. The Furnishing Supplier shall assist in the final field tests as applicable.

1.5 TEMPORARY STRUCTURES

A. Responsibility for Temporary Structures

1. In accepting the Contract, the Contractor assumes full responsibility for the sufficiency and safety of all temporary structures or work and for any damage which may result from their failure or their improper construction, maintenance or operation and will indemnify and save harmless the City, and City's Sub-consultants from all claims, suits or actions and damages or costs of every description arising by reason of failure to comply with the above provisions.

B. Temporary Fences

1. If, during the course of the work, it is necessary to remove or disturb any

fence or part thereof, the Contractor shall, at his own expense, if so approved by the City, provide a suitable temporary fence which shall be maintained until the permanent fence is replaced at the Contractor's cost and risk. The City shall approve the material to replace the permanent fence.

1.6 SAFETY

A. Accident Prevention

1. The Contractor shall be solely responsible for the condition of the project site, including safety of all persons and property during performance of the Work in accordance with the Contract Documents. Precautions shall be exercised for the protection of person and property. The safety provisions of applicable laws, building and construction codes shall be observed. The Contractor shall comply with the U.S. Department of Labor Safety and Health Regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (PL 91 596), and under Section 107 of the contract Work Hours and Safety Standards Act (PL 54), except where state and local safety standards exceed the federal requirements and except where state safety standards have been approved by the Secretary of Labor in accordance with provisions of the Occupational Safety and Health Act, shall be complied with.

B. First Aid

1. The Contractor shall keep upon the site, at each location where work is in progress, a completely equipped first aid kit and shall provide ready access thereto at all times when people are employed on the work.

1.7 LINES AND GRADES

A. Grade

1. All work under this Contract shall be constructed in accordance with the lines and grades shown on the Plans, or as approved by the City. The full responsibility for keeping alignment and grade shall rest upon the Contractor.

B. Safeguarding Marks

1. The Contractor shall safeguard all points, stakes, grade marks, monuments and bench marks made or established on the work, bear the cost of reestablishing them if disturbed, and bear the entire expense of rectifying work improperly installed due to not maintaining or protecting or to removing without authorization such established points, stakes and marks.

2. The Contractor shall safeguard all existing and known property corners, monuments and marks adjacent to but not related to the work and, if required, shall bear the cost of reestablishing them if disturbed or destroyed.
3. Stationing needs to be maintained at all times.

1.8 ADJACENT STRUCTURES AND LANDSCAPING

A. Responsibility

1. The Contractor shall also be entirely responsible and liable for all damage or injury as a result of his operations to all other adjacent public and private property, structures of any kind and appurtenances thereto met with during the progress of the work, except as specifically described in the Plans and Specifications. The cost of protection, replacement in their original locations and conditions or payment of damages for injuries to such adjacent public and private property and structures affected by the work, whether or not shown on the Plans, and the removal, relocation and reconstruction of such items called for on the Plans or specified shall be included in the various Contract Items and no separate payments will be made therefor. Where such public and private property, structures of any kind and appurtenances thereto are not shown on the Plans and when, in the opinion to avoid interference with the work, payment therefor will be made as provided for in the General Conditions.
2. Contractor is expressly advised that the protection of buildings, structures, tunnels, tanks, pipelines, etc. and related work adjacent and in the vicinity of his operations, wherever they may be, is solely his responsibility. Conditional inspection of buildings or structures in the immediate vicinity of the project which may reasonably be expected to be affected by the Work shall be performed by and be the responsibility of the Contractor.
3. Contractor shall, before starting operations, make an examination of the interior and exterior of the adjacent structures, buildings, facilities, etc., and record by notes, measurements, photographs, etc., conditions which might be aggravated by open excavation and construction. Repairs or replacement of all conditions disturbed by the construction shall be made to the satisfaction of the City. This does not preclude the Contractor of conforming to the requirements of the insurance underwriters. Copies of surveys, photographs, reports, etc., shall be submitted to the City.
4. Prior to the beginning of any excavations, the Contractor shall advise the Engineer and City of all buildings or structures on which he intends to perform work or which performance of the project work will affect.

B. Protection of Trees

1. All trees and shrubs within the limits of clearing which are to be preserved shall be adequately protected by the Contractor in accordance with City of North Port regulations. No excavated materials shall be placed within the dripline of any tree or shrub, so as to injure such trees or shrubs. Trees or shrubs destroyed by negligence of the Contractor or his employees shall be replaced in accordance with City of North Port regulations by him with new stock of similar size and age, at proper season and at the sole expense of the Contractor, and maintained until established.

C. Restoration of Fences

1. Unless otherwise shown on the Drawings, any fence, or part thereof, that is damaged or removed during the course of the work shall be replaced or repaired by the Contractor and shall be left in as good a condition as before the starting of the work. The manner in which the fence is repaired or replaced and the materials used in such work shall be subject to the approval of the City. The cost of all labor, materials, equipment, and work for the replacement or repair of any fence shall be deemed included in the appropriate Contract Item or items, or if no specific Item is provided therefore, as part of the overhead cost of the work, and no additional payment will be made therefore. Private fences removed from within the Right-of-Way shall be replaced as described above at the Right-of-Way line.

1.9 PROTECTION OF WORK AND PUBLIC

A. Barriers and Lights

1. During the prosecution of the work, the Contractor shall put up and maintain at all times such barriers and lights as will effectually prevent accidents. The Contractor shall provide suitable barricades, lights, "danger" or "caution" signs at all places where the work causes obstructions or constitutes in any way a hazard to the plant personnel in accordance with state and local requirements.

B. Smoke Prevention

1. A strict compliance with ordinances regulating the production and emission of smoke will be required. No open fires will be permitted.

C. Noise

1. The Contractor shall eliminate noise to as great an extent as practicable

at all times. Air compressing plants shall be equipped with silencers and the exhaust of all gasoline motors or other power equipment shall be provided with mufflers. The Contractor shall strictly observe all local regulations and ordinances covering noise control.

2. Except in the event of an emergency, work shall be done within the regular working hours specified in the General and Supplementary Conditions. If the proper and efficient prosecution of the work requires operations during the night, the written permission of the City shall be obtained before starting such items of the work.
3. Methods, Equipment, and Materials Description Plan: Prior to mobilization, the Contractor shall submit detailed description of methods, equipment, and materials to be used for the project.
4. Descriptions of equipment shall include Manufacturers' specifications, calibrations, appropriate drawing, photographs, and descriptions of any modifications since manufacture. This plan shall also include the Contractor's means for complying with all local noise ordinances and project specific noise requirements, including sound attenuation as necessary (City of North Port Administrative Code, Chapter 46, Article II, Division 2). The Contractor will not be allowed to mobilize until the Engineer and City approve the plan.
5. Once equipment is mobilized to the site and prior to start of work, the Contractor will be responsible for establishing a noise recording device at the closest property line to monitor noise levels and confirm that the noise levels established for the project are not exceeded. A copy of the noise ordinance is attached.

D. Access to Public Services

1. Neither the materials excavated nor the materials or plants used in the construction of the work shall be so placed as to prevent free access to all fire hydrants, valves or manholes, or access required by emergency vehicles and/or personnel. During the project access to residences and mailboxes shall be maintained at all times, deliveries and medical supplies etc. shall not be obstructed.

E. Dust Prevention

1. The Contractor shall prevent dust nuisance from his operations or from traffic by keeping the roads and/or construction areas sprinkled with water at all times.

1.10 CUTTING AND PATCHING

- A. The Contractor shall do all cutting, fitting or patching of his portion of the work that may be required to make the several parts thereof join and coordinate in a manner satisfactory to the City and in accordance with the Plans and Specifications. The work must be done by competent workmen skilled in the trade required by the restoration.

1.11 CLEANING

A. During Construction

1. During construction of the work, the Contractor shall keep the site of the work and adjacent premises as free from material, debris and rubbish as is practicable and shall remove the same from any portion of the site if, in the opinion of the City, such material, debris, or rubbish constitutes a nuisance or is objectionable.
2. The Contractor shall remove from the site all of his surplus materials and temporary structures when no further need therefor develops.
3. The Contractor shall be responsible and liable for all spillage and incur all associated costs including, but not limited to, costs related to repair and maintenance resulting from damages thereof.

B. Final Cleaning

1. At the conclusion of the work, all erection plant, tools, temporary structures and materials belonging to the Contractor shall be promptly taken away, and he shall remove and promptly dispose of all water, dirt, rubbish or any other foreign substances.
2. The Contractor shall thoroughly clean all equipment and materials installed by him and shall deliver such materials and equipment undamaged in a bright, clean, polished and new operating condition.

1.12 MISCELLANEOUS

A. Handling of Salty Water, Drilling Fluids and Drill Cutting

1. Due precautions should be taken to prevent spills; any spillage of fluids shall be returned to the closed circulation system.
2. In the event of any incidents occurring during construction activities (e.g. on-site spills, large volumes of circulation losses, etc.) the Contractor shall inform the City within one (1) hour so that the FDEP and other applicable agencies may be notified.

B. Protection of Waters

1. The Contractor shall properly dispose of all surplus material, including soil, in accordance with Local, State and Federal regulations. Under no circumstances shall surplus material be disposed of in waters as defined by the Florida Department of Environmental Protection, Southwest Florida Water Management District, Environmental Protection Commission, or United States Army Corps of Engineers.

C. Existing Facilities

1. The work shall be so conducted to maintain existing facilities in operation insofar as is possible. Requirements and schedules of operations for maintaining existing facilities in service during construction shall be as described in these Specifications.

D. Use of Chemicals

1. All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, reactant, or of other classification, must show approval of either EPA, NSF or USDA.

E. Cooperation with Other Contractors and Forces

1. During progress of work under this Contract, it may be necessary for other contractors and persons employed by the City to work in or about the site. The City reserves the right to put such other contractors to work and to afford such access to the site of the work to be performed hereunder at such times as the City deems proper. The Contractor shall not impede or interfere with the work of such other contractors engaged in or about the work and shall so arrange and conduct his work that such other contractors may complete their work at the earliest date possible. Contractor shall allow access through the project site by other contractors employed by the City.

F. Temporary Utilities

1. Where water is required, purchase it from the City. A meter will be installed on a fire hydrant, location to be determined by the Contractor and coordinated with the City. The Contractor shall pay all fees and water usage charges.
2. Light and Power: Provide without additional cost to the City temporary lighting and power facilities required for the proper construction and inspection of the Work. If, in the City's opinion, these facilities are inadequate, do NOT proceed with any portion of the Work affected

thereby. Maintain temporary lighting and power until the Work is accepted.

3. Sanitary Facilities: Provide sufficient sanitary facilities for construction personnel. Prohibit and prevent nuisances on the site of the Work or on adjoining property. Discharge any employee who violates this rule. Abide by all environmental regulations or laws applicable to the Work.

G. Valves

1. City will operate all valves for shutdowns (including emergency shut downs) for the duration of the project. Contractor must provide a schedule for valve operation and shut downs a minimum of ten (10) days prior to the request for the isolation and/or shut down.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 011060

ENVIRONMENTAL PROTECTION PROCEDURES

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials and equipment and perform all work required for the prevention of environmental pollution in conformance with applicable laws and regulations, during and as the result of inspection, rehabilitation and/or construction operations under this Contract. For the purpose of this Section, environmental pollution is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species; or degrade the utility of the environment for aesthetic and/or recreational purposes.
- B. The control of environmental pollution requires consideration of air, water and land, and involves management of noise and solid waste, as well as other pollutants.
- C. Schedule and conduct all work in a manner that will minimize the erosion of soils in the area of the work. Provide erosion control measures such as diversion channels, sedimentation or filtration systems, berms, staked hay bales, seeding, mulching or other special surface treatments as are required to prevent silting and muddying of streams, rivers, impoundments, lakes, etc. All erosion control measures shall be in place in an area prior to construction activity in that area.
- D. This Section is intended to ensure that construction is achieved with a minimum of disturbance to the existing ecological balance between a water resource and its surroundings. These are general guidelines. It is the Contractor's responsibility to determine the specific construction techniques to meet these guidelines.
- E. All phases of sedimentation and erosion control shall comply with and be subject to the approval of the Southwest Florida Water Management District, the Florida Department of Environmental Protection and the City of North Port. Prepare sedimentation and erosion control drawings meeting the requirements for approval by these agencies. Upon approval, furnish two copies of the approved Drawing to the Engineer and/or City.

1.2 APPLICABLE REGULATIONS

- A. Comply with all applicable Federal, State and local laws and regulations concerning environmental pollution control and abatement.

1.3 NOTIFICATIONS

- A. The Engineer and/or City will notify the Contractor in writing of any non-compliance with the foregoing provisions or of any environmentally objectionable acts and corrective action to be taken. State or local agencies responsible for verification of certain aspects of the environmental protection requirements shall notify the Contractor in writing, through the Engineer or City, of any non-compliance with State or local requirements. After receipt of such notice from the Engineer, City or from the regulatory agency through the Engineer, immediately take corrective action. Such notice, when delivered to the Contractor or his authorized representative at the site of the work, shall be deemed sufficient for the purpose. If the Contractor fails or refuses to comply promptly, the City may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of a claim for extension of time or for excess costs or damages by the Contractor unless it is later determined that the Contractor was in compliance.

1.4 IMPLEMENTATION

- A. Prior to commencement of the work, meet with the Engineer and/or City to develop mutual understandings relative to compliance with these provisions and administration of the environmental pollution control program.
- B. Remove temporary environmental control features, when approved by the Engineer and/or City and incorporate permanent control features into the project at the earliest practicable time.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 EROSION CONTROL

- A. Provide positive means of erosion control such as shallow ditches around construction to carry off surface water. Erosion control measures, such as siltation basins, hay check dams, mulching, jute netting and other equivalent techniques, shall be used as appropriate. Flow of surface water into excavated areas shall be prevented. Ditches around construction area shall also be used to carry away water resulting from dewatering of excavated areas. At the completion of the work, ditches shall be backfilled and the ground surface restored to original condition.

3.2 PROTECTION OF STREAMS AND OTHER SURFACE WATERS

- A. Take all precautions to prevent, or reduce to a minimum, any damage to any stream or surface water from pollution by debris, sediment or other material, or from the manipulation of equipment and/or materials in or near such streams. Water that has been used for washing or processing, that contains oils or sediments that will reduce the quality of the water in the stream, shall not be directly returned to the stream. Divert such waters through a settling basin or filter before being directed into streams or surface waters.
- B. Do not discharge water from dewatering operations directly into any live or intermittent stream, channel, wetlands, surface water or any storm sewer. Water from dewatering operations shall be treated by filtration, settling basins, or other approved method to reduce the amount of sediment contained in the water to allowable levels.
- C. Take all preventative measures to avoid spillage of petroleum products and other pollutants. In the event of any spillage, prompt remedial action shall be taken in accordance with a contingency action approved by the Florida Department of Environmental Protection.

3.3 PROTECTION OF LAND RESOURCES

- A. Restore land resources within the project boundaries and outside the limits of permanent work to a condition, after completion of construction that will appear to be natural and not detract from the appearance of the project. Confine all construction activities to areas shown on the Drawings.
- B. Outside of areas requiring earthwork for the construction of the new facilities, do not deface, injure, or destroy trees or shrubs, nor remove or cut them without prior approval. No ropes, cables, or guys shall be fastened to or attached to any existing nearby trees for anchorage unless specifically authorized by the Engineer and/or City. Where such special emergency use is permitted, first wrap the trunk with a sufficient thickness of burlap or rags over which softwood cleats shall be tied before any rope, cable, or wire is placed. The Contractor shall in any event be responsible for any damage resulting from such use.
- C. Before beginning operations near them, protect trees that may possibly be defaced, bruised, injured, or otherwise damaged by the construction equipment, dumping or other operations, by placing boards, planks, or poles around them. Monuments and markers shall be protected similarly.
- D. Trees or other landscape features scarred or damaged by the Contractor's equipment or operations shall be restored as nearly as possible to their original condition. The Engineer and/or City will decide the method of restoration to be

used and whether damaged trees shall be treated and healed or removed and disposed of.

1. All scars made on trees by equipment, construction operations, or by the removal of limbs larger than one (1") inch in diameter shall be coated as soon as possible with an approved tree wound dressing. All trimming or pruning shall be performed in an approved manner by experienced workmen with saws or pruning shears. Tree trimming with axes will not be permitted.
2. Climbing ropes shall be used where necessary for safety. Trees that are to remain, either within or outside established clearing limits, that are subsequently damaged by the Contractor and are beyond saving in the opinion of the Engineer and/or City, shall be immediately removed and replaced.

E. The locations of the Contractor's storage and other construction buildings required temporarily in the performance of the work, shall be cleared portions of the job site or areas to be cleared as shown on the Drawings and approved by the Engineer and shall not be within wetlands or floodplains. The preservation of the landscape shall be an imperative consideration in the selection of all sites and in the construction of buildings. Drawings showing storage facilities shall be submitted for approval of the Engineer and/or City.

F. If the Contractor proposes to construct temporary roads or embankments and excavations for plant and/or work areas, they shall submit the following for approval at least ten days prior to scheduled start of such temporary work.

1. A layout of all temporary roads, excavations, embankments and drainage to be constructed within the work area.
2. Details of temporary road construction.
3. Drawings and cross sections of proposed embankments and their foundations, including a description of proposed materials.
4. A landscaping drawing showing the proposed restoration of the area. Indicate the proposed removal of any trees and shrubs outside the limits of existing clearing area. Indicate locations of guard posts or barriers required to control vehicular traffic and protect trees and shrubs to be maintained undamaged. The Drawing shall provide for the obliteration of construction scars as such and shall provide for a natural appearing final condition of the area. Modification of the Contractor's approved drawings shall be made only with the written approval of the Engineer. No unauthorized road construction, excavation or

embankment construction including disposal areas will be permitted.

- G. Remove all signs of temporary construction facilities such as haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess of waste materials, or any other vestiges of construction as directed by the Engineer and/or City. It is anticipated that excavation, filling and plowing of roadways will be required to restore the area to near natural conditions which will permit the growth of vegetation thereon. The disturbed areas shall be prepared and seeded as described in Section 321030, or as approved by the Engineer and/or City.
- H. All debris and excess material will be disposed of outside wetland or floodplain areas in an environmentally sound manner.

3.4 PROTECTION OF AIR QUALITY

- A. Burning - The use of burning at the project site for the disposal of refuse and debris will not be permitted.
- B. Dust Control - Maintain all excavations, embankment, stockpiles, access roads, plant sites, waste areas, borrow areas and all other work areas within or without the project boundaries free from dust which could cause the standards for air pollution to be exceeded and which would cause a hazard or nuisance to others.
- C. An approved method of stabilization consisting of sprinkling or other similar methods will be permitted to control dust. The use of petroleum products is prohibited.
- D. Sprinkling, to be approved, must be repeated at such intervals as to keep all parts of the disturbed area at least damp at all times, and the Contractor shall have sufficient competent equipment on the job to accomplish this. Dust control shall be performed as the work proceeds and whenever a dust nuisance or hazard occurs, as determined by the Engineer and/or City.

3.5 NOISE CONTROL

- A. Make every effort to minimize noises caused by the construction operations. Equipment shall be equipped with silencers or mufflers designed to operate with the least possible noise in compliance with Federal and State regulations.

3.6 MAINTENANCE OF POLLUTION CONTROL FACILITIES DURING CONSTRUCTION

- A. Maintain all facilities constructed for pollution control as long as the operations creating the particular pollutant are being carried out or until the material concerned has become stabilized to the extent that pollution is no longer being created.

END OF SECTION

SECTION 012000

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 EXPLANATION AND DEFINITIONS

- A. The following explanation of Measurement and Payment for the bid form items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the Contractor of the necessity of furnishing such as a part of the contract at no additional cost.

1.2 MEASUREMENT

- A. The quantities set forth in the bid form are approximate and are given to establish a uniform basis for the comparison of bids. The City reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accord with the terms of the Contract.
- B. The lump sum price for mobilization/demobilization shall not exceed five percent (5%) of the total of all other items bid (excluding this item). The Contractor shall provide a breakdown of the lump sum bid for mobilization. The breakdown shall identify items of preparatory work and operations with the corresponding cost per item.

1.3 PAYMENT

- A. Payment shall be made for the items listed on the Bid Form on the basis of the work actually performed, completed, and accepted by the City, such Work including but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, cleanup, restoration of disturbed areas, and all other appurtenances to complete the construction and installation of the Work as shown on the Plans and described in these Technical Specifications.
- B. Unit prices are used as a means of computing the final figures for bid and Contract purposes, for periodic payments for Work performed, for determining value of additions or deletions, and wherever else reasonable.

C. Measurement and payment for lump sum Bid Items will be made on a monthly basis based on a percentage of completion based on the Contractor's schedule of values.

D. Monthly payments shall be subject to retainage as stated in the Contract.

1.4 MEASUREMENT FOR PAYMENT

A. Methods for Measurement: Units for measurement shall be:

1. Each (EA).
2. Linear Feet (LF).
3. Lump Sum (LS).
4. Square Feet (SF).
5. Square Yards (SY).

B. Unit Price Contracts/Items:

1. Linear Feet (LF) shall be measured along the horizontal length of the centerline of the installed material, unless otherwise specified. Pipe shall be measured along the centerline of the length of the completed pipeline, regardless of the type of joint required, without deduction for the length of valves or fittings. Pipe included within the limits of lump sum items will not be measured.
2. Square Feet (SF) and Square Yards (SY) shall be measured as the amount of the material installed within the limits shown and specified in the Plans and these Technical Specifications. Slope angles and elevations shall be measured using land surveying equipment. The Contractor shall provide supporting documentation (i.e., drawings, delivery tickets, invoices, survey calculations, etc.) to verify the actual quantity installed.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 GENERAL

A. Payment shall be made on the basis of Work actually performed completing each item in the Bid Form, such Work including, but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, cleanup, and all other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the Construction Plans and described in these Technical Specifications.

- B. Water used for flushing, pressure testing, and other activities shall be provided through a metered jumper. The cost of the City meter, fee for water used, and the necessary piping and appurtenances shall be included in the unit price for the Item in which the water is being used for.
- C. No payment will be made for work outside the scope of work performed prior to approval of a change order.
- D. No separate payment will be made for the following items and the cost of such Work shall be included in the applicable Bid Items:
1. Submittals.
 2. Obtaining and maintaining areas for storage and staging.
 3. Furnishing, installing, and maintaining erosion control and other environmental protection measures
 4. Dust control.
 5. Clearing and grubbing.
 6. Removal and replacement of all obstructions located in the path of the work including but not limited to signs, fences, trees, ornamental vegetation, landscaping structures, sidewalk, curbing, culverts, storm sewers, etc., unless paid for under a separate bid item.
 7. Stripping and stockpiling topsoil.
 8. Holding/staying utility poles to facilitate construction.
 9. Necessary pavement/slab removal, including but not limited to saw cutting and removing the entire thickness of the pavement/slab.
 10. Replacement or restoration of paved or unpaved roadways and grass and shrubbery plots outside of established pay limits.
 11. Restoration of shell and crushed stone drives unless paid for under a separate bid item.
 12. Replacement or restoration of curbing, gutter, sidewalk, and site restoration of any areas damaged during construction activities.
 13. Grading.
 14. Sodding.
 15. Removing/hauling and disposing of waste material due to construction.
 16. Cleanup.
 17. Maintaining the existing quality of service during construction.
 18. Utility notification and location and exploratory excavations for locating existing utilities.
 19. Protection of existing utilities during construction.
 20. Repair of existing utilities damaged during construction.
 21. Repair of utility service connections (including but not limited to sanitary sewer house laterals; potable water service lines; reclaimed water service lines; electric, cable, and telephone service lines) damaged during construction.
 22. Repair of irrigation systems damaged during construction.

23. Repair and/or cleaning of storm sewers, inlets, and catch basins damaged or filled with sediment during construction.
24. Providing the services of an independent testing laboratory for materials and compaction testing.
25. Providing the services of a professional land surveyor, licensed in the State of Florida, to establish horizontal and vertical control, layout the work, and assist with the preparation of as-built drawings.
26. Complying with permit requirements, including submitting notifications, reporting, and closeout documentation.
27. As-built drawings.
28. Noise suppression measures.
29. Removing, relocating, and resetting existing street signage to facilitate construction.
30. Removing, relocating, and resetting mailboxes to facilitate construction.
31. Protection existing landscaping during construction.
32. Repairing and/or replacing existing landscaping damaged or repaired during construction with in kind landscaping.
33. Warranties.
34. All other appurtenant work as required for a complete and operable system.

3.2 BID ITEMS

See Bid Form

END OF SECTION

SECTION 012100

EXCAVATION – SUNSHINE 811

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. The Contractor shall comply with all regulations and laws concerning excavation, demolition, and use of explosives in any public way, public utility company right-of-way or easement, or privately-owned land under which any public utility company maintains facilities.

1.2 REQUIREMENTS

- A. Utility Underground Plant Damage Prevention Authority: Sunshine State One Call (Sunshine 811) is the Utility Underground Plant Damage Prevention Authority in Florida.

1. The Contractor shall be aware that not all utilities are members of Sunshine State One Call.

- B. The telephone number for Sunshine State One Call is 811 or 800-432-4770.

- C. The Contractor shall notify Sunshine State One Call of contemplated excavation, demolition, and use of explosives in public or private ways and in any utility company right of way or easement.

- D. The Contractor shall also notify all non-members of Sunshine State One Call of contemplated excavation, demolition, and use of explosives in public or private ways and in any utility company right of way or easement.

- E. Notification of Sunshine State One Call and non-members of Sunshine State One Call shall be made at least two full business days prior to the work for regular dig sites (10 full business days when digging underwater). Utilities contacted are required to respond to the notice within two business days for regular dig sites (10 business days for underwater sites) from the time said notice is received by designating at the specified site the location of pipes, mains, wires, or conduits.

- F. The Contractor shall not commence Work until all utilities have responded as noted above. The Work shall then be performed in such a manner and with reasonable precautions taken to protect the locate

marks through the project and avoid damage to utilities under the surface in said areas of Work.

- G. Any deviations that affect the Work shall be reported to the City and Engineer.
- H. A Sunshine State One Call ticket is valid for 30 calendar days.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 012500

SUBSTITUTIONS AND PRODUCT OPTIONS

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Furnish and install products specified, under options and conditions for substitutions stated in this Section.
- B. Whenever a product, material or item of equipment is specified or described by using the name of a proprietary product or the name of a particular manufacturer or vendor, followed by the phrase "or equal," the specific item mentioned shall be the basis upon which bids are to be prepared, and shall be understood as establishing the type, function, dimension, appearance and quality desired. Other manufacturer's or vendor's products not named will be considered as substitutions, provided the required information is submitted in the manner set forth in this Section and provided the substitution will not require substantial revision to the Contract Documents.

1.2 RELATED WORK

- A. Delivery Storage and Handling is included in Section 016610.

1.3 SUBMITTAL OF LIST OF PROPOSED SUBSTITUTIONS

- A. Bidders shall submit their list of proposed substitutions and the proposed monetary changes associated therewith to the City together with their bids.

1.4 CONTRACTOR'S OPTIONS

- A. Products shall be in accordance with City of North Port Utilities Standards Specifications and Standard Details, unless otherwise specified.
- B. For Products specified by naming several products or manufacturers, select any one of products and manufacturers named which complies with Specifications.
- C. For products specified by naming one or more products or manufacturers and stating, "or equal," submit a request as for substitutions, for any product or manufacturer which is not specifically named.

- D. For products specified by naming only one product and manufacturer, there is no option and no substitution will be allowed.

1.5 SUBSTITUTIONS

- A. In order for substitutions to be considered, the Contractor shall submit, within 30 days of issuance of Notice to Proceed, complete data as set forth herein to permit complete analysis of all proposed substitutions noted on his substitutions list. No substitution shall be considered unless the Contractor provides the required data in accordance with the requirements of this Section within the 30-day period, unless agreed in writing by City & Contractor.

- B. Submit separate request for each substitution. Support each request with:

1. Complete data substantiating compliance of proposed substitution with requirements stated in Contract Documents:
 - a. Product identification, including manufacturer's name and address.
 - b. Manufacturer's literature; identify:
 - 1) Product description.
 - 2) Reference standards.
 - 3) Performance and test data.
 - 4) Operation and maintenance data.
 - c. Samples, as applicable.
 - d. Name and address of similar projects on which product has been used, and date of each installation.
2. Itemized comparison of the proposed substitution with product specified. List significant variations. Substitution shall not change design intent and shall perform equal to that specified.
3. Data relating to impact on construction schedule occasioned by the proposed substitution. Substitutions shall not allow delay of substantial completion.
4. Any effect of substitution on separate contracts.
5. List of changes required in other work or products.

6. Accurate cost data comparing proposed substitution with product specified.

a. Amount of any net change to Contract Sum.

7. Designation of required license fees or royalties.

8. Designation of availability of maintenance services, sources of replacement materials.

C. Substitutions will not be considered for acceptance when:

1. They are indicated or implied on shop drawings or product data submittals without a formal request from Contractor.

2. They are requested directly by a subcontractor or supplier.

3. Acceptance will require substantial revision of Contract Documents.

D. Requests for substitutions submitted more than 30 days after NTP will not be considered unless evidence is submitted to the City and Engineer that all of the following circumstances exist:

1. The specified product is unavailable for reasons beyond the control of the Contractor. Such reasons shall consist of strikes, bankruptcy, discontinuance of manufacturer, or Force Majeure.

2. The Contractor placed, or attempted to place, orders for the specified products within 10 days after Notice of Award.

3. Request for substitution is made in writing to the City within 10 days of the date on which the Contractor ascertains that he cannot obtain the item specified.

4. Complete data as set forth herein to permit complete analysis of the proposed substitution is submitted with the request.

E. The City's decision regarding evaluation of substitutions shall be considered final and binding. Requests for time extensions and additional costs based on submission of, acceptance of, or rejection of substitutions will not be allowed.

1.6 CONTRACTOR'S REPRESENTATION

A. In making formal request for substitution, Contractor represents that:

1. He/she has investigated proposed product and has determined that it is

equal to or superior in all respects to that specified.

2. He/she will provide same warranties or bonds for substitution as for product specified.
3. He/she will coordinate installation of accepted substitution into the Work and will make such changes as may be required for the Work to be complete in all respects.
5. He/she waives claims for additional costs caused by substitution which may subsequently become apparent.
6. Cost data is complete and includes related costs under his/her Contract, but not:
 - a. Costs under separate contracts.
 - b. City's costs for redesign or revision of Contract Documents.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 012613

REQUESTS FOR INFORMATION

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. This Section specifies the general methods and requirements of Requests for Information (RFIs).

1.2 RELATED WORK

- A. Additional requirements may be specified in the General Conditions.
- B. Submittals are included in Section 013000.
- C. Project Record Documents are included in Section 017839.

1.3 REQUESTS FOR INFORMATION

- A. When the Contractor believes that additional information or clarification of a contract requirement is needed, it may initiate a Request for Information
- B. RFIs may relate to Technical matters or Administrative matters. The RFI process shall be limited to the clarification of technical and/or administrative matters. While the response to an RFI might lead to a change in the contract scope, cost or time, RFIs are not a substitute to the notification requirements stipulated in the General Conditions.
- C. A response to an RFI may authorize minor changes to the contract consistent with the terms of the contract related to the responsibilities and limitations of authority of the City.
- D. A response to an RFI is not an authorization to perform any additional work that would require that change order or written amendment to the contract. If the Contractor believes the response to an RFI requires a change to the contract, Contractor shall promptly provide written notice to the City in accordance with the General Conditions.
- E. RFIs are not a substitute for the Submittals process specified elsewhere.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 ORIGINATION

- A. The Contactor shall originate RFIs.
1. RFIs numbering shall be sequential. In the event that an answered RFI results in a follow-up inquiry, the follow-up shall maintain the same number as the original, appended with a suffix.
 2. Include Specification Section(s), Drawing(s), or detail(s) for which information is requested.
 3. Attach drawings, sketches, photographs or other relevant information.
 4. If the question concerns an interpretation of the Contract Documents, enter the Contractor's interpretation.
 5. Indicate the date by which the Contractor requests a reply.
 6. Sign the appropriate portion of the form.
- B. RFIs may not be submitted by subcontractors or suppliers. When a subcontractor or supplier generates a request for information or clarification to the Contractor, the Contractor shall incorporate such requests into the required format.
- C. Contractor shall maintain a log of all RFIs including the date originated, date delivered, and date answered.

3.2 PROCESSING

- A. Contractor shall submit all RFIs to the City for processing via email. Engineer must be copied on RFI and the subject line must contain the project name and the letters "RFI".
- B. Technical RFIs will generally be reviewed and answered by the respective discipline Engineer or architect. The Engineer will forward the RFI response to the City and Contractor.
- C. Administrative RFIs will generally be reviewed and answered by the Engineer in consultation with the City. The Engineer will then forward the RFI response to the City and Contractor.
- D. The Engineer will generally respond to RFIs within seven calendar days of receipt – depending on the complexity of the inquiry.

3.3 RESPONSES

- A. If the RFI contains sufficient clarity, the Engineer will insert a response in the lower portion of the RFI form, sign and date the response; and, return the completed form to the City and Contractor.
- B. If the RFI does not contain sufficient clarity, the Engineer may request additional information, from the Contractor.
- C. Engineer will distribute copies to the City and project files.
- D. Engineer will maintain a log of all RFIs including the date received and date returned to Contractor.

3.4 RECORD INFORMATION

- A. Contractor shall include all clarifications obtained through the RFI process into the record information in accordance with Section 017839.

END OF SECTION

SECTION 012663

CHANGE ORDER PROCEDURES

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. The Contractor shall promptly implement change order procedures:
1. Provide full written data required to evaluate the time and associated costs of changes.
 2. Maintain detailed records of work done on a time-and-material basis.
 3. Provide full documentation to the City.

1.2 DEFINITIONS

- A. Change Order: A written order that is issued to modify or amend a contract or purchase order, which directs the Contractor to make changes to the contract price, contract time, or contract scope. In reference to construction contracts, it relates primarily to changes caused by unanticipated conditions encountered during construction not covered in the Contract Documents for the project.

1.3 PRELIMINARY PROCEDURES

- A. The City may initiate changes by submitting a proposal request to the Contractor. Such request is for information only, and is not an instruction to execute the changes, nor to stop work in progress. Request will include:
1. Detailed description of the change, products, and location of the change in the project.
 2. Supplementary or revised Plans or Technical Specifications.
 3. The projected time span for making the change and whether overtime work is authorized.
 4. A specific period of time during which the requested price will be considered valid.
- B. The Contractor may initiate changes by submitting a written notice to

City, containing:

1. Description of the proposed changes.
2. Statement of the reason for making the changes.
3. Statement of the effect on the contract price and the contract time.
4. Statement of the effect on the work of subcontractors or other contractors.
5. Documentation supporting any change in contract price and/or contract time.

1.4 DOCUMENTATION OF PROPOSALS AND CLAIMS

A. For each item for which a unit price has not previously been established, provide a lump sum proposal with sufficient substantiating data including labor, materials, equipment, and overhead and profit to allow the City to evaluate the quotation.

B. On request, provide additional data to support time and cost computations:

1. Labor required.
2. Equipment required.
3. Products required.
 - a. Recommended source of purchase and unit cost.
 - b. Quantities required.
4. Insurance and bonds.
5. Credit for work deleted from Contract, similarly detailed and documented.
6. Overhead and profit.

a. The Contractor's fee for overhead and profit shall be limited to:

- i. Direct payroll costs: Fifteen percent (15%).
- ii. Materials and equipment incorporated into the work: Fifteen percent (15%).
- iii. Subcontractors: Five percent (5%).
- iv. Rentals of construction equipment and machinery: Zero percent (0%).
- v. Special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and

- accountants): Zero percent (0%).
- vi. Transportation and maintenance of materials, supplies, equipment, machinery, tools, appliances, office, and temporary facilities: Zero percent (0%).
- vii. Utilities: Zero percent (0%).
- viii. Bonds and Insurance: Zero percent (0%).

7. Justification for any change in Contract Time. Justification shall include a revised project schedule identifying the impact of the change.

C. Support each claim for additional costs, and for work done on a time-and-material basis, with documentation as required for a lump-sum proposal, plus additional information:

1. Name of the City's authorized agent who ordered the work, and date of the order.
2. Dates and times work was performed, and by whom.
3. Time record, summary of hours worked, and hourly rates paid (Certified Payroll).
4. Receipts and invoices for:
 - a. Equipment used, listing dates and times of use, and hourly rates.
 - b. Products used, listing of quantities and receipted bills.
 - c. Subcontractors billings and description of work performed.

1.5 PREPARATION OF CHANGE ORDERS

- A. The City will prepare each Change Order utilizing backup prepared by the Contractor.
- B. Change Order will describe changes in the Work, both additions and deletions, with attachments of revised contract documents to define details of the change.
- C. Change Order will provide an accounting of the adjustment in the contract price and/or contract time.

1.6 LUMP SUM OR FIXED PRICE CHANGE ORDER

- A. Content of Change Orders will be based on, either:
 1. The City's proposal request and Contractor's responsive proposal as mutually agreed between the City and Contractor.

2. The Contractor's proposal for a change, as recommended by the City.

- B. The Contractor shall sign and date the Change Order to indicate agreement with the terms therein.
- C. The City will sign and date the Change Order as authorization for the Contractor to proceed with the changes.

1.7 UNIT PRICE CHANGE ORDERS

A. Content of Change Orders will be based on, either:

- 1. The City's definition of the scope of the required changes.
- 2. The Contractor's proposal for a change, as recommended by City.
- 3. Measurement of completed work.

B. The amounts of the unit prices to be:

- 1. Those stated in the Agreement.
- 2. Those mutually agreed upon between the City and Contractor.

1.8 CORRELATION WITH CONTRACTOR'S SUBMITTALS

- A. The Contractor shall revise the Schedule of Values and Request for Payment forms to record each change as a separate item of Work, and to record the adjusted contract price.
- B. The Contractor shall revise the Construction Schedule to reflect each change in Contract Time. Subcontractor schedules shall also be revised to show changes for other items of work affected by the changes.
- C. Upon completion of work under a Change Order, the Contractor shall record pertinent changes in the as-built drawings.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 012973

SCHEDULE OF VALUES

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Procedures for preparation and submittal of schedule of values.

1.2 FORMAT

- A. The cost breakdown shall generally be in the same format as the Technical Specifications, with major items of work listed individually and clearly correlated to bid items.
- B. The cost breakdown shall include separate cost for any testing, startup, and training as required.

1.3 CONTENT

- A. List estimated installed value of each major item of Work and each subcontracted item of Work as a separate line item to serve as a basis for computing values for Progress Payments.
- B. For each major subcontract, list products and operations of that subcontract as separate line items.
- C. Coordinate listed items with Progress Schedule.
- D. For lump sum bid items, component listing shall each include a directly proportional amount of Contractor's overhead, profit, and bonds and insurance costs.
- E. For items on which payments will be requested for stored products, list sub-values for cost of stored products.
- F. The sum of values for all items associated with a bid item shall equal the total cost of the bid item. The sum of values listed shall equal total Contract Price.
- G. Unbalanced schedule of values will not be acceptable and, when discovered, will be returned for adjustment to reflect actual costs.
- H. Contractor to assist the City to develop the retired asset's value as

applicable to the project.

1.4 SUBSTANTIATING DATA

- A. When the City or Engineer requires substantiating information, submit data justifying line items amounts in question. Only those line item amounts that the Contractor can justify to the satisfaction of the City and Engineer will be acceptable.

1.5 SUBMITTAL

- A. Submit the preliminary schedule of values within 10 days of Notice to Proceed.
- B. If activities are added or removed from the Contract, revise the schedule of values and resubmit.
- C. No payment will be made to the Contractor prior to acceptance of the schedule of values by the City and Engineer.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 012983

APPLICATIONS FOR PAYMENT

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Submit Applications for Payment to the City in accordance with the schedule established by Conditions of the Contract and Agreement between City and the Contractor.
- B. The accepted Schedule of Values, Section 012973 shall be used as the basis for the Contractor's Application for Payment.

1.2 FORMAT AND CONTENT

- A. Submit applications for payment using EJCDC Form C-620, "Contractor's Application for Payment." No other formats shall be accepted.
 - 1. The Schedule of Values shall provide a breakdown of the Contract value in sufficient detail to facilitate evaluation of Applications for Payment. Break subcontract amounts down into several line items as necessary. The total shall equal the Contract value.
 - 2. Show line items for indirect costs and margins on costs only when such items are listed individually in Applications for Payment. Each item in the Schedule of Values and Applications for Payment shall be complete. Include the total cost and proportionate share of general overhead and profit margin for each item.
 - a. Temporary facilities and items that are not direct cost of work-in-place may be shown as separate line items if bid in that manner.
 - 3. Update and resubmit the Schedule of Values when Change Orders change the Contract value.

1.3 APPLICATION FOR PAYMENT

- A. Applications for Payment shall be consistent with previous applications and payments as certified and paid for by the City and/or Engineer.
- B. Payment Application Times: Pay periods shall run through month end, unless otherwise stated. The City and Engineer shall review draft

application and provide comments/corrections to the Contractor within 7 days of receipt of draft application. The City shall issue payment to the Contractor in accordance with the Florida Prompt Payment Act.

- C. Payment Application Forms: Payment Application forms shall be prepared the Contractor and sent to the City for approval.
- D. Application Preparation: Complete every entry, including notarization and execution by a person authorized to sign on behalf of the Contractor. The City will return incomplete applications without action.
- E. Entries shall match data on the Schedule of Values and the Contractor's Progress Schedule. Use updated schedules if revisions were made.
- F. Include amounts of Change Orders issued prior to the last day of the construction period covered by the application.
- G. Monthly applications for payment shall be subject to retainage in accordance with the Prompt Payment Act and as stated in the Contract.

1.4 TRANSMITTAL

- A. Submit certified electronic copies of each Application for Payment to the City within the timeframes set forth in Section 218.735 F.S. One copy shall be complete, including waivers of lien, updated project schedule, and surety company consent to progress payment.

1. Transmit each copy with a transmittal listing attachments and recording appropriate information related to the application.

1.5 INITIAL APPLICATION FOR PAYMENT

- A. Administrative actions and submittals that must precede or coincide with submittal of the first Application for Payment include the following:

1. List of subcontractors.
2. List of principal suppliers and fabricators.
3. Schedule of Values.
4. Contractor's Progress Schedule (preliminary if not final).
5. Submittal Schedule (preliminary if not final).
6. List of Contractor's staff assignments.

7. Copies of building permits (if applicable).
8. Copies of licenses from governing authorities.
9. Certificates of insurance and insurance policies.
10. Performance and payment bonds.

1.6 APPLICATION FOR PAYMENT AT SUBSTANTIAL COMPLETION

- A. Following issuance of the Certificate of Substantial Completion, submit an Application for Payment. This application shall reflect Certificates of Partial Substantial Completion issued previously for City occupancy of designated portions of the Work.
1. Administrative actions and submittals that shall precede or coincide with this application include the following:
 - a. Occupancy permits (if applicable).
 - b. Warranties and maintenance agreements.
 - c. Test/adjust/balance records.
 - d. Maintenance instructions.
 - e. Meter readings.
 - f. Changeover information related to City's occupancy.
 - g. Final cleaning.
 - h. Application for reduction of retainage and consent of surety.

1.7 FINAL PAYMENT APPLICATION

- A. Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include the following:
1. Refer and comply with City contract requirements.
 - a. Consent of Surety to Final Payment
 - b. Warranty
 2. Letter / Certificate of Completed Demonstration from the Contractor.
 3. Transmittal of Project construction records to the City.
 4. Record drawings certified by the Contractor's Professional Surveyor.
 5. Proof that taxes, fees and similar obligations were paid.
 6. Removal of temporary facilities and services.

7. Change of gate locks to City's access (if applicable).

8. Final Release of Lien Form

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 013000

Shop Drawings, Submittals and Samples

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. This section includes the procedures for submittals.
- B. The Contractor shall maintain an accurate, up-to-date submittal log. A copy of the Contractor's submittal log shall be submitted with each submittal. This log should include the following items:
 - 1. Submittal description and number assigned.
 - 2. Date submitted to City/Engineer.
 - 3. Date returned from City/Engineer.
 - 4. Status of Submittal (No Exceptions Taken, Reviewed as Modified, Revise and Resubmit, Not Reviewed/Rejected).
 - 5. Date of resubmittal and return (as applicable).
 - 6. Date material released (for fabrication or delivery, as applicable).
 - 7. Projected date of fabrication (as applicable).
 - 8. Projected date of delivery to site.
 - 9. Projected date and required lead time so that product installation does not delay contact.
 - 10. Status of O&M manuals submitted (as applicable).

1.2 SHOP DRAWINGS

- A. Present in a clear and thorough manner. Title each drawing with project name and number, identify each element of drawings by reference to the NPU Technical Specification Section and paragraph, sheet number, detail, etc. Use and complete a cover page for each submittal. Failure to use a cover page will result in submittals being returned without review.
- B. Identify field dimensions. Show relation to adjacent or critical features,

work, or products.

- C. Shop drawings and submittals shall be transmitted electronically to the City and Engineer.

1.3 PRODUCT DATA

- A. Submit only pages which are pertinent. Mark each copy of standard printed data to identify pertinent products, referenced to Technical Specification Section number. Show reference standards, performance characteristics, capacities, component parts, finishes, dimensions, required clearances, etc. in order to show compliance with the Plans and Technical Specifications.
- B. Provide Safety Data Sheets (SDS) required by OSHA for all chemicals to be supplied under this contract.
- C. Submittals made without the required transmittal form that clearly identifies the respective Technical Specification Section number for which the submittal is being made will be returned without review. It is the Contractor's responsibility to make clearly identified submittals.
- D. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.
- E. Provide manufacturer's preparation, assembly, delivery, storage, installation, startup, adjusting, and finishing instructions.

1.4 SAMPLES

- A. Submit full range of manufacturer's standard finishes, except when more restrictive requirements are specified, indicating colors, textures, and patterns, for the City's selection.
- B. Submit samples to illustrate functional characteristics of products, including parts and attachments.
- C. Acceptable samples which may be used in the Work are indicated in the individual Technical Specification Section for the product or material.
- D. Label each sample with identification required for transmittal letter.
- E. Provide field samples of finishes for the project, as required by individual Technical Specification Sections. Install each sample complete and finished. Acceptable finishes in place may be retained in the completed

work.

- F. Those provisions of Paragraph 1.3 of this Section that relate to submittal identification and completeness are applicable for sample submittal.

1.5 CONTRACTOR REVIEW

- A. Review submittals prior to transmittal. Determine and verify field measurements, field construction criteria, manufacturer's catalog numbers, and conformance of submittal with requirements of the Contract Documents.
- B. Coordinate submittals with requirements of the work and Contract Documents.
- C. Sign and date each sheet of shop drawings and product data, and each sample label to certify compliance with requirements of the Contract Documents. Notify the City in writing at time of submittal of any deviations from requirements of the Contract Documents.
- D. Do not purchase, fabricate, or ship products or begin work that requires submittals until return of submittal that the City and/or Engineer has reviewed.
- E. The Contractor shall check and verify all field measurements and shall be responsible for prompt submission of all shop and working drawings so there shall be no delay in the work.
- F. The Contractor shall be responsible for the delays and/or additional expenses that result from the Contractor's failure to submit a complete submittal and/or to identify portions of the submittal that do not conform to the Technical Specifications.

1.6 SUBMITTAL REQUIREMENTS

- A. Shop drawings and product data submittals shall be prepared and transmitted electronically in PDF format unless otherwise specified.
- B. Use a transmittal form for submittals to the City. Identify Project by title. Identify work and product by Technical Specification section and paragraph number.
- C. Submittals shall be made in accordance with the Progress Schedule and in such sequence to avoid delay in the work.
- D. Apply Contractor's electronic stamp, signed certifying to review, verification of products, field dimensions and field construction criteria,

and coordination of information with requirements of the work and Contract Documents.

- E. Group submittals as listed in Paragraph 3.1. For submittals which are necessary but not listed in Paragraph 3.1, coordinate submittals into logical groupings to facilitate interrelation of the several items:
 - 1. Finishes that involve the City's selection of colors, textures, or patterns.
 - 2. Associated items that require correlation for efficient function or for installation.
- F. Submit number of samples required by individual Technical Specification sections (where applicable).

1.7 RESUBMITTALS

- A. Contractor shall make resubmittals under procedures specified for initial submittals. Changes made since previous submittal shall be identified.
- B. Resubmittals shall supersede initial submittals.

1.8 CITY/ENGINEER REVIEW

- A. Responses to thorough, clear, complete submittals will be provided to the Contractor with reasonable promptness (approximately two (2) weeks).
- B. Submittals reviewed will be returned electronically stamped.
- C. Incomplete, vague, non-stamped, and otherwise unacceptable submittals will be returned unreviewed.

1.9 DISTRIBUTION

- A. The Contractor shall duplicate and distribute reproductions of shop drawings, copies of product data, and samples that have been approved, to the job site file, the record documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.

1.10 SCHEDULE OF SUBMITTALS

- A. Shop drawings, product data, and sample submittals shall be made in a timely and logical fashion accounting for the work scheduling and job progress.
- B. It is the Contractor's responsibility to prepare, coordinate, and review all

submittals prior to delivery to the City and Engineer. The City and/or Engineer will review each thorough, clear, complete submittal and resubmittals as applicable.

1.11 REVIEW QUALIFICATION

- A. Regardless of corrections made or acceptance of such drawings by the City, the Contractor shall nevertheless be responsible for the accuracy of such drawings, their conformity to the Contract Documents, and suitability for the work.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 CONTRACTOR SUBMITTALS

- A. The following submittals shall be required from the Contractor. Additional submittals shall be provided as necessary.

**This table is to be filled in by the Engineer and tailored to the project.*

SUBMITTAL	REQUIREMENTS	REFERENCE
Schedule of Values	Submit within 10 days of Notice to Proceed	Supplemental Technical Specifications Section 012973
Preliminary Progress Schedule	Submit prior to mobilizing equipment or material to the site.	Supplemental Technical Specifications Section 013200
Revised Progress Schedules	Submit with each pay request; accompany with a narrative report.	Supplemental Technical Specifications Section 013200
Warranties and Bonds	Submit one (1) binder within 10 days of Final Completion and prior to final application for payment.	Supplemental Technical Specifications Section 017836
Record Documents	Submit all project record documents and samples at Contract closeout.	Supplemental Technical Specifications Section 017839
As-Built Drawings	Submit two (2) CDs/DVDs with as-built drawings in PDF and AutoCAD formats and four (4) full-size hard copies signed and sealed by Registered Surveyor after completion of testing and prior to FDOH Certification.	Supplemental Technical Specifications Section 017839
Color Audio-Video Preconstruction Record	Submit three (3) complete DVDs accompanied by hard copy electronic media site recordings logs prior to mobilizing equipment or materials to the site	Supplemental Technical Specifications Section 018050
Maintenance of Traffic (MOT) Plan	Submit MOT Plan signed/sealed by Florida licensed professional engineer or prepared by someone who possesses FDOT MOT credentials	City of North Port Technical Specifications Section 14000
*continue list per project bid items		

END OF SECTION

SECTION 013119

PROJECT MEETINGS

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. The City shall schedule a pre-construction meeting, periodic progress meetings and specially called meetings throughout the progress of the work.

1.2 RELATED REQUIREMENTS

- A. Construction Progress Schedules are included in Section 013200.
- B. Shop Drawings, Submittals and Samples are included in Section 013000.
- C. Project Record Documents are included in Section 017839.

1.3 QUALIFICATIONS OF MEETING PARTICIPANTS

- A. Representatives of entities participating in meetings shall be qualified and authorized to act on behalf of the entity each represents.

1.4 PRE-CONSTRUCTION MEETINGS

- A. Preconstruction meeting should be scheduled no later than 20 days after date of Notice of Award.
- B. Location: North Port City Hall: 4790 City Hall Blvd, North Port, FL 34286
- C. Attendance
 - 1. City's representatives
 - 2. City's professional consultants
 - 3. Contractor's Superintendent
 - 4. Major Subcontractors
 - 5. Major suppliers
 - 6. Utilities
 - 7. Others as appropriate
- D. Suggested agenda and topics of discussion to include but are not limited to:

1. Distribution and discussion of the Contractor's list of major subcontractors and suppliers and the projected Construction Schedule.
2. Critical work sequencing.
3. Major equipment deliveries and priorities.
4. Project Coordination including the designation of responsible personnel.
5. Procedures and processing of requests for information, submittals, change orders, and Applications for Payment.
6. Procedures for maintaining Record Documents.
7. Staging and storage areas.
8. Temporary utilities.
9. Housekeeping procedures.

1.5 PROGRESS MEETINGS

- A. General: Progress meetings shall be conducted as necessary and as determined by the City, Engineer and the Contractor. The frequency and location of these meetings may be altered upon the agreement of the City and Contractor.
- B. The City shall make physical arrangements for the meetings. The City or Engineer shall prepare agendas, notify each anticipated participant, preside at the meetings, record minutes, and distribute copies of the minutes within seven (7) days of meeting to participants and interested parties.
- C. Attendance: Contractor's superintendent, representatives of the City, the Engineer, subcontractors who are or are proximate to be actively involved in the Work, and others who are necessary to the agenda are required. Representatives of other utilities when the Work affects their interests shall be invited.
- D. The Contractor shall submit at each meeting:
 1. Construction schedule, regardless whether revisions have been made.
 2. A written projected schedule for the next two weeks.
 3. Written claims for additional compensation.

4. Written claims for rain days to extend the Contract.
5. Results of all testing and Value Engineering Proposals as applicable.

E. Tentative Agenda:

1. Review of Work progress and schedule.
 - a. Actual start and finish dates of completed activities since last progress meeting.
 - b. Durations and progress of activities not completed.
 - c. Subcontractors' progress.
 - d. Percentage of completion of items on Pay Request.
 - e. Delivery schedules.
 - f. Revisions to Schedule: Shall include reasons for required revisions and their effect on Contract Time and Contract Price.

1.4 PRE-INSTALLATION MEETINGS

A. General: The Contractor shall meet with manufacturers and/or installers (as appropriate and applicable to the nature of the project) of major units of construction that require coordination between the Contractor, the City, subcontractors, or others. Major units of construction that require pre-installation meetings include:

1. Piping tie-ins.
2. Any work requiring a shutdown or other interruptions.
3. Horizontal directional drills.

B. Meetings shall be conducted at the North Port Utilities Office located at 6644 West Price Blvd., North Port, FL 34291, or other mutually agreed upon place.

C. The Contractor shall schedule meetings at least seven (7) days in advance of installation. The Contractor shall prepare and distribute to each anticipated participant a written notice and agenda at least four (4) days before the meeting. The Contractor shall preside at the meetings, record minutes, and distribute copies of the minute within seven (7) days of meeting to participants and interested parties.

D. Attendance: Contractor's superintendent, appropriate manufacturers and/or installers of major units of constructions, affected subcontractors, and others affected. The City and Engineer shall be invited.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 013200

PROGRESS SCHEDULES

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Procedures for preparation and submittal of construction progress schedules and periodic updating using a critical path method schedule.
- B. A separate schedule of submittal dates for shop drawings, product data and samples, and dates reviewed submittals will be required by the City.
- C. Construction under this contract must be coordinated with the City's personnel and accomplished in a logical order to maintain existing facilities and to allow construction to be completed within the time allowed by Contract Documents.

1.2 FORMAT

- A. Prepare schedules as a horizontal bar chart or network with separate bar or node for each major portion of Work or operation, identifying first workday of each week and identifying each portion of the work that is critical to timely project completion.
- B. Sequence of Listings: The chronological order of the start of each item of work.
- C. Scale and Spacing: Provide space for notations and revisions.
- D. Sheet Size: 11-inches x 17-inches maximum. Electronic copies are preferred.

1.3 CONTENT

- A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
 - 1. At a minimum, each bid item from the Bid Form shall be included as an activity or an explanation why a bid item is not included as an activity.
 - 2. Include arrows showing the dependencies between tasks.

3. Include the duration for each activity.

4. Indicate the total float.

- B. Identify each item by major Technical Specification Section number.
- C. Identify work of separate stages and other logically grouped activities.
- D. Show accumulated percentage of completion of each item, and total percentage of the work completed, as of the last day of each month.
- E. Coordinate content with requests for payment of completed work.
- F. The Contractor shall not manipulate float time which results in a schedule that varies substantially from the contract time allowed in these Contract Documents.

1.4 CITY RECOGNIZED HOLIDAYS

- A. Refer to Specification 011000 Summary of Work.

1.5 REVISIONS TO SCHEDULES

- A. Indicate progress of each activity to date and indicate projected completion date of each activity.
- B. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes.
- C. Provide narrative report, if requested by the City, to define problem areas, anticipated delays, and impacts on schedule. Report corrective action taken or proposed and its effect.

1.6 SUBMITTALS

- A. Submit initial schedules within ten (10) days of the Notice to Proceed. After review, resubmit required revised data within ten (10) days.
- B. Submit revised progress schedules for review with each pay request.

1.7 DISTRIBUTION

- A. Contractor to distribute electronic copies of the schedules to the City, subcontractors, suppliers, and other concerned entities.
- B. Instruct recipients to promptly report, in writing, problems anticipated by

projections shown in schedules.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 014000

PROJECT COORDINATION

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Coordination of Work required by the Contract Documents.

1.2 GENERAL REQUIREMENTS

- A. The Contractor shall coordinate scheduling, submittals, and work of the various sections of these Technical Specifications to assure efficient and orderly sequence of installation of the construction elements, with provisions for accommodating items to be installed later.

1.3 MEETINGS

- A. The Contractor shall hold frequent coordination meetings and pre-installation conferences, as applicable, with personnel and subcontractors to assure coordination of the work.

1.4 COORDINATION OF SUBMITTALS

- A. The Contractor shall schedule and coordinate submittals as specified in Sections 013000 and 013200.
- B. The Contractor shall coordinate the work of various sections having interdependent responsibilities for installing, connecting to, and placing improvements in service.
- C. The Contractor shall coordinate requests for substitutions from all subcontractors to assure compatibility of space, of operating elements, and effect on the work of other sections.

1.5 COORDINATION WITH OTHER CONTRACTORS

- A. The Contractor shall cooperate with other contractors working within the same site or on adjacent sites.
- B. The Contractor shall coordinate the work of this Contract with other contractors so as not to interfere with or hinder the progress or completion of the work being performed by other contractors.

1.6 PRIVATE LAND

- A. The Contractor shall not enter or occupy private land outside of easements, except by notarized permission of the landowner.
- B. When necessary to notify the property owner or tenant of any impact of construction activity, entry onto the land shall only be made by a construction superintendent, or more senior person, of the Contractor. All construction superintendents, and those ranking above construction superintendent, must carry laminated, photo identification cards bearing their name, position, Contractor name, and local day time and after-hours phone number of the Contractor. This identification shall be produced, whether it is requested, anytime a construction superintendent, or more senior person enters private land to communicate with the property owner or tenant.

1.7 MAINTENANCE OF ACCESS

- A. The work located in developed areas requiring the access by fire, police and other departments, at least one free lane shall always be available for traffic. Contractors are to arrange operations in these areas to meet these requirements and secure approval or operating procedures from the City.

1.8 MAINTENANCE OF TRAFFIC

- A. Open pits, trenches, unpaved streets, debris, or other obstructions due to construction that will prevent the normal flow of traffic during an extended construction stoppage, for any reason, shall be minimized. In the event an extended construction stoppage is found to be necessary, Contractor shall, at his own expense, provide normal traffic flow during extended construction stoppage.
- B. All excavated material shall be placed so that vehicular and pedestrian traffic is always maintained. If the Contractor's operations cause traffic hazards, he/she shall repair the road surface, provide temporary roadways, erect wheel guards or fences, or take other measures for safety satisfactory to the City.
- C. Detours around construction areas will be subject to the approval of the City. Where detours are permitted, the Contractor shall provide all necessary barricades and signs as required to divert the flow of traffic. While traffic is detoured the Contractor shall expedite construction operations.
- D. The Contractor will be required to submit a Maintenance of Traffic Plan (MOT) that is signed/sealed by Florida licensed professional engineer or

prepared by someone who possesses FDOT MOT credentials. Submittal of the Maintenance of Traffic plan is in accordance with Section 013000 – Shop Drawings, Submittals, and Samples, and in accordance with FDOT Standards.

- E. Contractor and/or NPU shall notify the North Port Police Department, North Port Fire & Rescue, North Port Public Works, North Port Solid Waste Division, and Sarasota School District regarding the scheduling of any road closures.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 014200

REFERENCES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Reference Abbreviations
- B. Abbreviations
- C. Reference Standards
- D. Definitions

1.2 RELATED SECTIONS

- A. Information provided in this section is used where applicable in individual Specification Sections.

1.3 REFERENCE ABBREVIATIONS

- A. Reference to a technical society, trade association or standards setting organization, may be made in the Specifications by abbreviations in accordance with the following list:

AABC	Associated Air Balance Council
AAMA	Architectural Aluminum Manufacturers Association
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists
ACI	American Concrete Institute
ADC	Air Diffusion Council
AFBMA	Anti-Friction Bearing Manufacturers Association
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AHA	Association of Home Appliance Manufacturers
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AMCA	Air Movement and Control Association, Inc.
ANSI	American National Standards Institute
APA	American Plywood Association
ARI	American Refrigeration Institute
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning

	Engineers
ASME	American Society of Mechanical Engineers
ASSE	American Society of Sanitary Engineers
ASTM	American Society for Testing and Materials
AWI	Architectural Woodwork Institute
AWPA	American Wood Preservers Association
AWS	American Welding Society
AWWA	American Water Works Assoc
BHMA	Builders' Hardware Manufacturers Association
BIA	Brick Institute of American
CABO	Council of American Building Officials
CAGI	Compressed Air and Gas Institute
CISPI	Cast Iron Soil Pipe Institute
CMAA	Crane Manufacturers Association of America
CRD	U.S. Corps of Engineers Specifications
CRSI	Concrete Reinforcing Steel Institute
CTI	Cooling Tower Institute
DHI	Door and Hardware Institute
DOH	Department of Health
DOT	Department of Transportation
Fed. Spec.	Federal Specifications
FGMA	Flat Glass Marketing Association
FM	Factory Mutual
HMI	Hoist Manufacturing Institute
HPMA	See HPVA
HPVA	Hardwood Plywood Veneer Association
ICEA	Insulated Cable Engineers Association
IEEE	Institute of Electrical and Electronics Engineers
IFI	Industrial Fasteners Institute
MIL	Military Specifications
MSS	Manufacturer's Standardization Society
NAAMM	National Association of Architectural Metal Manufacturers
NACM	National Association of Chain Manufacturers
NBS	National Bureau of Standards, See NIST
NEBB	National Environmental Balancing Bureau
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
NETA	National Electrical Testing Association
NFPA	National Fire Protection Association
NFPA	National Forest Products Association
NFPA	National Fluid Power Association
NIST	National Institute of Standards and Technology
NLMA	National Lumber Manufacturers Association
NSF	National Sanitation Foundation
OSHA	Occupational Safety and Health Act
PCI	Prestressed Concrete Institute
PDI	Plumbing and Drainage Institute

SAE	Society of Automotive Engineers
SCPRF	Structural Clay Products Research Foundation
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
SPI	Society of the Plastics Industry
SSPC	Steel Structures Painting Council
STI	Steel Tank Institute
TCA	Tile Council of American
TIMA	Thermal Insulation Manufacturers' Association
UL	Underwriters' Laboratories, Inc.
USBR	U. S. Bureau of Reclamation
USBS	U. S. Bureau of Standards, See NIST

1.4 ABBREVIATIONS

- A. Abbreviations which may be used in individual Specification Sections are as follows:

alternating current	ac
American wire gauge	AWG
ampere(s)	amp
ampere-hour(s).....	AH
annual.....	ann
Ampere Interrupting	
Capacity	AIC
atmosphere(s)	atm
average.....	avg
biochemical oxygen demand.....	BOD
Board Foot.....	FBM
brake horsepower.....	bhp
Brinell Hardness.....	BH
British thermal unit(s).....	Btu
calorie (s)	cal
carbonaceous biochemical	
oxygen demand.....	CBOD
Celsius (centigrade)	C
Center to Center	C to C
centimeter(s)	cm
chemical oxygen demand.....	COD
coefficient, valve flow	Cv
condensate return	CR
cubic.....	cu
cubic centimeter(s).....	cc
cubic feet per day	cfm
cubic feet per hour	cfh
cubic feet per minute	cfm
cubic feet per minute,	
standard conditions	scfm

cubic feet per second.....cfs
 cubic foot (feet) cu ft
 cubic inch(es).....cu in
 cubic yard(s) cu yd
 decibels dB
 decibels (A scale) dBa
 degree(s) deg
 dewpoint temperature dpt
 diameter dia
 direct current dc
 dissolved oxygen DO
 dissolved solids.....DS
 dry-bulb temperature dbt
 efficiency.....eff
 elevation..... el
 engineer of record.....EOR
 entering water temperature ewt
 entering air temperature eat
 equivalent direct radiation edr
 face area.....fa
 face to face f to f
 Fahrenheit.....F
 feet per day fpd
 feet per hour fph
 feet per minute fpm
 feet per second fps
 foot (feet).....ft
 foot-candle.....fc
 foot-pound ft-lb
 foot-pounds per minute ft-lb/min
 foot-pounds per second ft-lb/sec
 formazin turbidity unit(s) FTU
 frequency.....freq
 fuel oil.....FO
 fuel oil supply.....FOS
 fuel oil return FOR
 gallon(s) gal
 gallons per day.....gpd
 gallons per day per
 cubic foot.....gpd/cu ft
 gallons per day per
 square foot gpd/sq ft
 gallons per hour gph
 gallons per minute gpm
 gallons per second.....gps
 gas chromatography and
 mass spectrometry.....GC-MS

gauge.....ga
grain(s) gr
gram(s).....g
grams per cubic centimeter gm/cc
Heat Transfer Coefficient U
height hgt
Hertz..... Hz
horsepower hp
horsepower-hour hp-hr
hour(s) hr
humidity, relative rh
hydrogen ion concentration pH
inch(es) in
inches per second ips
inside diameter ID
Jackson turbidity unit(s) JTU
kelvin K
kiloamperes.....kA
kilogram(s) kg
kilometer(s) km
kilovar (kilovolt-amperes
reactive) kvar
kilovolt(s).....kV
kilovolt-ampere(s).....kVA
kilowatt(s) kW
kilowatt-hour(s) kWh
linear foot (feet) lin ft
liter(s) L
megavolt-ampere(s).....MVA
meter(s).....m
micrograms per liter ug/L
miles per hour mph
milliampere(s)..... mA
milligram(s) mg
milligrams per liter..... mg/L
milliliter(s) mL
millimeter(s) mm
million gallons..... MG
million gallons per day mgd
millisecond(s)..... ms
millivolt(s) mV
minute(s)..... min
mixed liquor suspended
solids MLSS
nephelometric turbidity
unit.....NTU
net positive suction head NPSH

noise criteria.....nc
 noise reduction coefficient NRC
 number.....no
 ounce(s).....oz
 outside air.....oa
 outside diameter.....OD
 parts per billion..... ppb
 parts per million..... ppm
 percent pct
 phase (electrical).....ph
 pound(s)..... lb
 pounds per cubic foot pcf
 pounds per cubic foot
 per hour pcf/hr
 pounds per day lbs/day
 pounds per day per
 cubic foot lbs/day/cu ft
 pounds per day per
 square foot.....lbs/day/sq ft
 pounds per square foot..... psf
 pounds per square foot
 per hour psf/hr
 pounds per square inch psi
 pounds per square inch
 absolute psia
 pounds per square inch
 gauge.....psig
 power factor PF
 pressure drop or
 difference.....dp
 pressure, dynamic
 (velocity).....vp
 pressure, vapor.....vap pr
 quart(s).....qt
 Rankine R
 relative humidity rh
 resistance..... res
 return air ra
 revolution(s) rev
 revolutions per minute rpm
 revolutions per second rps
 Right of Way.....ROW
 root mean squared..... rms
 safety factor sf
 second(s)..... sec
 shading coefficient..... SC
 sludge density index..... SDI

Sound Transmission

Coefficient.....	STC
specific gravity	sp gr
specific volume	Sp Vol
sp ht at constant pressure	Cp
square	sq
square centimeter(s)	sq cm
square foot (feet).....	sq ft
square inch (es)	sq in
square meter(s).....	sq m
square yard(s).....	sq yd
standard.....	std
static pressure	st pr
supply air	sa
suspended solids.....	SS
temperature	temp
temperature difference	TD
temperature entering	TE
temperature leaving	TL
thousand Btu per hour.....	Mbh
thousand circular mils	kcmil
thousand cubic feet	Mcf
threshold limit value	TLV
tons of refrigeration	tons
torque.....	TRQ
total dissolved solids	TDS
total dynamic head	TDH
total nitrogen	TKN
total oxygen demand	TOD
total pressure	TP
total solids	TS
total suspended solids	TSS
total volatile solids	TVS
vacuum.....	vac
viscosity	visc
volatile organic chemical	VOC
volatile solids.....	VS
volatile suspended solids.....	VSS
volt(s).....	V
volts-ampere(s)	VA
volume	vol
watt(s)	W
watthour(s).....	Wh
watt-hour demand	WHD
watt-hour demand meter.....	WHDM
week(s).....	wk
weight	wt

wet-bulb WB
wet bulb temperature WBT
yard(s).....yd
year(s).....yr

1.5 REFERENCE PUBLICATIONS

The following publications are incorporated into this manual and are made a part of this Manual as if set out verbatim in this Manual. Violations of any provision of every such publication, as of the date of bidding this Contract, shall be a violation of City Ordinance.

- A. Water Environment Federation, Manual of Practice No. 8, Wastewater Treatment Plant Design, W.E.F., 601 Wythe Street, Alexandria, VA, 22314-1994.
- B. Water Environment Federation, Manual of Practice No. 9, Design and Construction of Sanitary and Storm Sewers, W.E.F., 601 Wythe Street, Alexandria, VA, 22314-1994.
- C. Great Lakes/Upper Mississippi River Board of State Sanitary Engineers. Recommended Standards for Sewage Works, Health Education Service, Inc., P.O. Box 7283, Albany, New York, 12224.
- D. Great Lakes/Upper Mississippi River Board of State Sanitary Engineers. Recommended Standards for Water Works, Health Education Service, Inc., P.O. Box 7283, Albany, New York, 12224.
- E. Florida Department of Environmental Protection for Water, Wastewater, and Reclaimed Water Systems, latest revisions of F.A.C. Chapters 62-550, 62-555, 62-600, 62-604, 62-610, 64E-6, and 64E-8, 3900 Commonwealth Boulevard M.S. 49, Tallahassee, Florida, 32399.
- F. American Water Works Association, Inc., Water Treatment Plant Design, AWWA Standards and Applicable Manuals, 6666 West Quincy Avenue, Denver, Colorado, 80235.
- G. Ductile Iron Pipe Research Association, Handbook, Ductile Iron Pipe/Cast Iron Pipe, Ductile Iron Pipe Research Association, 245 Riverchase Parkway East, Birmingham, Alabama, 35244.
- H. Uni-Bell Plastic Pipe Association, Handbook of PVC Pipe, Uni-Bell Plastic Pipe Association, 2655 Villa Creek Drive, Suite 164, Dallas, Texas, 75234.
- I. American National Standards Institute, latest revisions of applicable standards, 1819 L Street NW, Suite 600, Washington, D.C., 20036.

- J. American Society for Testing and Materials, latest revisions of applicable standards, ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania, 19428-2959.
- K. National Water Research Institute, Treatment Technologies for Removal of MTBE. NWRI, 10500 Ellis Ave., P.O. Box 20865, Fountain Valley, CA, 92728.
- L. National Water Research Institute, Valuing Ground Water: Economic Concepts/Approaches. NWRI, 10500 Ellis Ave., P.O. Box 20865, Fountain Valley, CA, 92728.7.3.14.
- M. U.S. Environmental Protection Agency, Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability, Supplement to the Federal Guidelines for Design, Operation, and Maintenance of Wastewater Treatment Facilities, Technical Bulletin EPA-430-99-74-001, U.S. EPA, Office of Water Program Operations.
- O. Florida Department of Transportation, Standard Specifications for Road and Bridge Construction, Maps & Publications Sales, Mail Station 12, 605 Suwannee Street, Tallahassee, Florida 32399-0450.
- P. Plastics Pipe Institute, Handbook of Polyethylene Pipe, 1825 Connecticut Ave., NW, Suite 680, Washington, DC 20009.
- Q. National Fire Protection Association, 1995 Edition of NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances, 1 Batterymarch Park, Quincy, MA 02169.
- R. City of North Port Utilities Standards and Specifications Manual.
- S. National Electrical Code, latest revisions of applicable requirements.
- T. Metcalf and Eddy, Wastewater Engineering Treatment and Reuse, 4th Edition, McGraw-Hill, 2002.
- U. Water Environment Federation, Manual of Practice No. 11, Operation of Municipal Wastewater Treatment Plants, 601 Wythe Street, Alexandria, VA 22314-1994.
- V. American Petroleum Institute, 1801 K Street NW, Washington, DC 20006.
- W. American Welding Society, 2501 NW 7th St, Miami, FL 33125.

- X. Factory Mutual Research, 1151 Boston-Providence Turnpike, Norwood, MA 02062
- Y. National Association of Corrosion Engineers, P.O. Box 218340, Houston, TX 77218.
- Z.
- AA. National Electrical Manufacturer's Association, 155 East 44th St., NY, NY 10017.
- BB. Occupational Safety and Health Act, U.S. Dept. of Labor, Occupational Safety and Health Administration, 299E. Broward Blvd. – Rm 302, Ft. Lauderdale, FL 33301.
- CC. Society of Automotive Engineers, 2 Pennsylvania Plaza, NY, NY 10001.
- DD. Steel Structures Painting Council, 4400 Fifth Ave., Pittsburgh, PA 15213.
- EE. Standard Specification for Public Works, Construction Building News, Inc., 3055 Overland Ave., Los Angeles, CA 90034.
- FF. Uniform Building Code, published by ICBO.
- GG. Underwriters Laboratories, Inc., 207 East Ohio Street, Chicago, IL 60611.

1.6 REFERENCE STANDARDS

- A. Latest Edition: Construe references to furnishing materials or testing, which conform to the standards of a particular technical society, organization, or body, to meet the latest standard, code, or specification of that body, adopted and published as of the date of bidding this Contract. Standards referred to herein are made a part of these Specifications to the extent that is indicated or intended.
- B. Precedence: The duties and responsibilities of the City, Contractor or Engineer, or any of their consultants, agents or employees are set forth in the Contract Documents, and are not changed or altered by any provision of any referenced standard specifications, manuals or code, whether such standard manual or code is or is not specifically incorporated by reference in the Contract Documents. Any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority, to undertake responsibility contrary to the powers of the City as set forth in the Contract Documents cannot be assigned to the City or any of the City's consultants, agents or employees.

1.7 DEFINITIONS

A. In these Contract Documents the words furnish, install, and provide are defined as follows:

1. Furnish (Materials): to supply and deliver to the project ready for installation and in operable condition.
2. Install (services or labor): to place in final position, complete, anchored, connected in operable condition.
3. Provide: to furnish and install complete. Includes the supply of specified services. When neither furnish, install, or provide is stated, provided is implied.
4. City: City of North Port, Florida, or authorized staff or representatives.
5. Engineer: The terms Design Professional, Design Engineer, Engineer, and Engineer of Record are interchangeably used throughout the Contract Documents.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 014500

QUALITY CONTROL

PART 1 - GENERAL

1.1 QUALITY CONTROL PLAN

- A. General: The Contractor shall furnish for approval by the City and Engineer, a Contractor Quality Control (CQC) Plan within 10 calendar days after Notice to Proceed. The plan shall identify personnel, procedures, instructions, records, and any forms to be used.

1.2 QUALITY CONTROL ORGANIZATION

- A. Contractor Quality Control (CQC) System Manager: CQC System Manager shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. This person shall demonstrate their ability to perform correctly the duties required to the satisfaction of the City and shall be physically at the Site whenever Work is in progress and will be in charge of the Contractor's Quality Control program for this project. All the Contractor's submittals for approval shall be reviewed and modified or corrected as needed and approved correct prior to forwarding of such submittals to the City and Engineer.
- B. Personnel: The personnel of the CQC staff shall be fully qualified by experience and technical training to perform their assigned responsibilities and shall be directly hired by and work for the Contractor.

1.3 SUBMITTALS

- A. Submit in accordance with Section 013000 – Shop Drawings, Submittals and Samples. The CQC System Manager shall be responsible for certifying that all submittals comply with the contract requirements. Perform work using persons fully qualified to produce workmanship of specified quality.
- B. The Contractor Quality Control Plan: This plan shall include as a minimum, the following:
1. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall report to the Project Manager or someone higher in the Contractor's

organization.

2. The name, qualifications, duties, responsibilities, and authorities of each person assigned a CQC function.
 3. A copy of a statement signed by an authorized official of the Contractor's firm, which describes the responsibilities and delegates the authorities of the CQC System Manager.
 4. Procedures for scheduling and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents.
 5. Control testing procedures for each specific test.
 6. Names of independent testing laboratories to perform required testing. (Testing laboratories must be approved by the City.)
 7. Reporting procedures including proposed reporting formats.
 8. Hazard Communication Program required under OSHA requirements.
- C. Acceptance of CQC Plan: Acceptance of the plan by the City is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction.
- D. Notification of Changes to CQC Plan: After acceptance of the CQC plan, notify the City in writing of any proposed change. Proposed changes are subject to acceptance by the City.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 CONTROL

- A. Contractor Quality Control is the means by which the Contractor assures that his/her construction complies with the requirements of the Contract Documents. The controls shall be adequate to cover all construction operations, including both onsite and offsite operations and will be keyed to the proposed construction sequence. The controls shall include at least three phases of inspection for all definitive features of work as follows:
1. Preparatory Inspection: This shall be performed prior to beginning any definable feature of work. It shall include a review of contract requirements; a check to assure that all materials and/or equipment have been tested, submitted, and approved; a check to assure that

provisions have been made to provide required control testing; examination of the work area to ascertain that all preliminary work has been completed; and a physical examination of materials, equipment, and sample work to assure conformance with the Contract Documents and that all materials and/or equipment are on hand.

2. Initial Inspection: This shall be performed as soon as a representative portion of the particular feature of work has been accomplished and shall include examination of the quality of workmanship and a review of control testing for compliance with contract requirements, use of defective or damaged materials, omissions, and dimensional requirements.
3. Follow-up Inspection: These shall be performed daily to assure continuing compliance with contract requirements, including control testing, until completion of the particular feature of work. Such inspection shall be made a matter of record in the CQC documentation as required below. Final follow up inspections shall be conducted and deficiencies corrected prior to the addition of new features of work.

3.2 TESTS

- A. Test Procedures: Perform tests specified or required to verify that control measures are adequate to provide a product which conforms to contract requirements. Contractor shall procure the services of an industry recognized independent testing laboratory. A list of tests which the Contractor understands they are to perform shall be furnished as a part of the CQC Plan to the City. The list shall give the test name, specification paragraph containing the test requirements, and the personnel and laboratory responsible for each type of test.
- B. Perform the following activities and record and provide the following data:
 1. Verify that testing procedures comply with Contract requirements.
 2. Verify that facilities and testing equipment are available and comply with testing standards.
 3. Verify that test instrument calibration data are checked against certified standards.
 4. Verify that recording forms, including the test documentation requirements, have been prepared.

3.3 COMPLETION INSPECTION

- A. At the completion of all Work or any increment thereof established under this Contract, the CQC System Manager shall conduct a completion inspection of the Work and develop a "punch list" of items which do not conform to the Contract Documents. Such a list shall be included in the CQC documentation and shall include the estimated date by which the deficiencies will be corrected. The CQC System Manager or their staff shall make a second completion inspection to ascertain that all deficiencies have been corrected and so notify the City and Engineer. The completion inspection and any deficiency corrections required by this paragraph will be accomplished within the time stated for completion of the entire Work or any particular increment thereof if the project is divided into increments by separate completion dates.

3.4 DOCUMENTATION

- A. Maintain current records of quality control operations, activities and tests performed including the work of suppliers and subcontractors. These records shall be on an acceptable form and indicate a description of trades working on the project, the numbers of personnel working, the weather conditions encountered, any delays encountered, and acknowledgment of deficiencies noted along with the corrective actions taken on current and previous deficiencies. In addition, these records shall include factual evidence that required activities or tests have been performed, including but not limited to the following:
1. Type and number of control activities and tests involved.
 2. Results of control activities or tests.
 3. Nature of defects, causes for rejection, etc.
 4. Proposed remedial action.
 5. Corrective actions taken and results of retesting.
- B. These records shall cover both conforming and defective or deficient features and shall include a statement that supplies and materials incorporated in the Work comply with the requirements of the Contract. Legible copies of these records shall be furnished to the City.

3.5 NOTIFICATION OF NONCOMPLIANCE

- A. The City will notify the Contractor of any noncompliance with the foregoing requirements. After receipt of such notice, the Contractor shall immediately take corrective action. Such notice, when delivered to the Contractor or their representative at the Site, shall be deemed

sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the City may issue an order stopping all or part of the Work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

END OF SECTION

SECTION 015000

MOBILIZATION

PART 1 - GENERAL

1.1 DEFINITION AND SCOPE

A. As required for the proper performance and completion of the Work, mobilization shall include, but not be limited to, the following principal items:

1. Move onto the Site all Contractor's equipment required for the first month's operation.
2. Install silt fences around perimeter of Project Site and at locations where surface drainage discharges to existing stormwater inlets.
3. Install temporary construction power, wiring, and lighting facilities.
4. Establish a fire protection plan and safety program.
5. Secure construction water supply.
6. Provide on-site sanitary facilities and potable water facilities.
7. Arrange for and erect Contractor's work and storage yard and employee's parking facilities.
8. Submit all required insurance certificates and bonds in accordance with the Front End Documents.
9. Obtain all required permits.
10. Post all OSHA, FDEP, Department of Labor, and all other required notices.
11. Have Contractor's project manager and/or superintendent at the job site full time.
12. Submit a detailed progress schedule acceptable to the City and approved for baseline schedule.
13. Submit a finalized Schedule of Values of the Work in the City's approved format as provided in Section 012973 - Schedule of Values.

14. Submit a hurricane preparedness plan acceptable to the City.
15. Submit signed and sealed Maintenance of Traffic and Control Plan to the City.
16. Two project signs are required. The locations of the signs will be determined by the City.
17. Submit Contractor's Health and Safety Plan.
18. Submit Contractor's Quality Control Plan.

1.2 PAYMENT FOR MOBILIZATION

- A. The Contractor's attention is directed to the condition that no payment for mobilization, or any part thereof, will be approved for payment under the Agreement until all mobilization items listed above have been completed as specified.
- B. Measurement and Payment for Mobilization shall be made per Section 012000 – Measurement and Payment.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 016500

PERMITS AND FEES

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Permits and licenses required to complete the project will be obtained and fees shall be paid for according to the Contract Agreement.
- B. Schedule all inspections and obtain all written approvals of the agencies required by the permits and licenses.
- C. Comply with all construction related conditions specified in each of the permits and licenses.

1.2 PERMITS

- A. Contractor shall be responsible for preparation of a Stormwater Pollution Prevention Plan and shall obtain an FDEP permit for stormwater discharge from construction activities.
- B. If dewatering discharges to waters of the State are proposed, the Contractor may be required to obtain an FDEP Generic Permit for the Discharge of Produced Groundwater from any Non-Contaminated Site Activity.
- C. Contractor shall submit to and obtain approval for a Maintenance of Traffic (MOT) Plan from the City of North Port and Florida Department of Transportation (FDOT) as applicable, prior to commencement of construction.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 016610

DELIVERY, STORAGE, AND HANDLING

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This Section specifies the general requirements for the delivery handling, storage, and protection for all items required in the performance of the Work. Specific requirements, if there are any, are specified with the related item in subsequent sections.
- B. Maintaining and protecting products after installation and until Final Completion of the Work.

1.2 TRANSPORTATION AND DELIVERY

- A. Store and protect products immediately on delivery. Store products in accordance with Manufacturers' instructions, with seals and labels intact and legible.
- B. Store products subject to damage by elements in substantial weather tight enclosures.
 - 1. Maintain temperatures within ranges required by manufacturers' instructions.
 - 2. Provide humidity control for sensitive products as required by manufacturers' instructions.
 - 3. Store unpacked products on shelves, in bins, or in neat piles accessible for inspection.
- C. Exterior Storage:
 - 1. Provide substantial platforms, blocking, or skids to support fabricated products above ground and to prevent soiling or staining. Cover products subject to discoloration or deterioration from exposure to the elements (including but not limited to PVC pipe, valves, and fittings) with impervious sheet coverings. Provide adequate ventilation to avoid condensation.
 - 2. Piping, valves, fittings, and appurtenances shall be stored on pallets, blocking, or other supports above ground; do not place directly on the

ground surface. Store loose granular materials on solid surfaces such as paved areas or provide plywood or sheet materials to prevent mixing with foreign matter.

- a. Provide surface drainage to prevent flow or ponding of rainwater.
- b. Prevent mixing of refuse or chemically injurious materials or liquids.

- D. Arrange storage in a manner to provide easy access for inspection.
- E. Promptly inspect shipment to assure that products comply with requirements, quantities are correct, and items are undamaged. For items furnished by others, if any, perform inspection in the presence of the City. Notify City verbally and in writing of any problems.
- F. If any item has been damaged, the damage item shall be replaced at no additional cost to the City.

1.3 STORAGE AND PROTECTION

- A. Maintain periodic system of inspection of stored products on a scheduled basis to assure that:
 - 1. State of storage facilities is adequate to provide required conditions.
 - 2. Required environmental conditions are maintained on continuing basis.
 - 3. Surfaces of products exposed to elements are not adversely affected.
- B. All mechanical and electrical equipment and instruments subject to corrosive damage by the atmosphere if stored outdoors (even though covered by canvas) shall be stored in a weathertight building to prevent injury. The building may be a temporary structure on the Site or elsewhere, but it must be satisfactory to the City. Building shall be provided with adequate ventilation to prevent condensation. Maintain temperature and humidity within range required by manufacturer.
- C. All paint and other coating products shall be stored in areas protected from the weather. Follow all storage requirements set forth by the paint and coating manufacturers.

1.4 PROTECTION AFTER INSTALLATION

- A. Provide protection of installed products to prevent damage from subsequent operations. Remove protection when no longer needed, prior to completion of Work.

B. Control traffic to prevent damage to equipment and surfaces.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 017710
CONTRACT CLOSEOUT

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. The Contractor shall comply with requirements stated in the Contract and Specifications for administrative procedures in closing out the Work.

1.2 SUBSTANTIAL COMPLETION

- A. When the Contractor considers the Work substantially complete, Contractor shall submit to the City:

1. A written notice that the Work, or designated portion thereof, is substantially complete.
2. A site inspection with the Engineer, City and Contractor will be scheduled. A punch list of items to be completed or corrected will be generated at this inspection.

- B. Within a reasonable time, the City will make an inspection to determine the status of completion.

- C. Should the City determine that the Work is not substantially complete:

1. The City will promptly notify the Contractor in writing, giving the reasons therefor.
2. The Contractor shall remedy the deficiencies in the Work and send a second written notice of substantial completion to the City.
3. The City will reinspect the Work.

- D. When the City finds that the Work is substantially complete, the City will execute and deliver to the Contractor a Certificate of Substantial Completion with a revised punch list of items to be completed or corrected.

1.3 FINAL INSPECTION

- A. When the Contractor considers the Work is complete, they shall submit written certification that:

1. Contract Documents have been reviewed.
2. Work has been inspected for compliance with Contract Documents.
3. Work has been completed in accordance with Contract Documents.
4. Equipment and systems have been tested in the presence of the City and are operational.
5. Work, including punch list items, are completed and ready for final inspection.

B. The City will make an inspection to verify the status of completion with reasonable promptness after receipt of such certification.

C. Should the City consider that the Work is incomplete or defective:

1. The City will promptly notify the Contractor in writing, listing the incomplete or defective work.
2. The Contractor shall take immediate steps to remedy the stated deficiencies and send a second written certification to the City that the Work is complete.
3. The City will reinspect the Work.

D. When the City finds that the Work is acceptable under the Contract Documents, they shall request that the Contractor make closeout submittals.

1.4 CONTRACTOR'S CLOSEOUT SUBMITTALS TO ENGINEER AND CITY

A. Evidence of compliance with requirements of governing and regulatory authorities.

B. Project Record Documents: Requirements of Section 017839 – Project Record Documents.

C. Warranties and Bonds: Requirements of General Conditions and Section 017836 – Warranties and Bonds.

D. Keys and Keying Schedule.

E. Spare Parts and Maintenance Materials.

- F. Evidence of Payment and Release of Liens: Requirements of General and Supplementary Conditions.
- G. Certificate of Insurance for Products and Completed Operations: Requirements of General Conditions.
- H. Consent of Surety to Final Payment.
- I. Proof that taxes, fees, and similar obligations were paid.

1.5 FINAL ADJUSTMENTS OF ACCOUNTS

- A. Submit a final statement of accounting to the City.
- B. Statement shall reflect all adjustments to the Contractor Sum:

1. The original Contract Sum.
2. Additions and deductions resulting from:
 - a. Previous Change Orders.
 - b. Unit Prices.
 - c. Deductions for uncorrected Work.
 - d. Deductions for liquidated damages.
 - e. Other adjustments.
3. Total Contract Sum, as adjusted.
4. Previous payments.
5. Sum remaining due.

- C. Contractor will prepare a final Change Order, reflecting approved adjustments to the Contract sum which were not previously made by Change Orders.

1.6 FINAL APPLICATION FOR PAYMENT

- A. The Contractor shall submit the final Application for Payment in accordance with procedures and requirements stated in the General Conditions.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

A. The Contractor shall furnish all necessary tools and labor required to allow the City to verify the status of completion. The tools shall include, but not be limited to the following (as applicable):

1. Vault Entry Equipment.
2. Shovel.
3. Lamps & Mirror(s).
4. Probe Rod.
5. Valve Key.
6. Manhole Hook.
7. All necessary labor to help on the test for completion.

END OF SECTION

SECTION 017836

WARRANTIES AND BONDS

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This Section specifies general administrative and procedural requirements for preparing and submitting warranties and bonds required by the General Conditions, including Manufacturer's standard warranties on products and special warranties.

1.2 RELATED WORK

- A. The Contract Documents include, but are not limited to, the following related requirements:
1. Refer to General Conditions for the general requirements relating to warranties and bonds.
 2. General closeout requirements are included in Section 017710 Project Closeout.

1.3 PREPARATION OF SUBMITTALS

- A. Obtain warranties and bonds, executed in duplicate by responsible subcontractors, suppliers, and manufacturers within ten (10) days after completion of the applicable item of Work. Except for items put into use with the City's permission, leave date of beginning of time of warranty open until the date of substantial completion is determined. All warranty coverage shall be extended directly to the benefit of the City.
- B. When a special warranty is required to be executed by the Contractor, or the Contractor and a subcontractor, supplier or Manufacturer, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the City for approval prior to final execution.

1.4 TIME OF SUBMITTAL

- A. For equipment or component parts of equipment put into service during construction with the City's permission, submit documents within ten (10) days after acceptance.

- B. Make other submittals within 10 days after date of Final Completion, prior to the final application for payment.

1.5 FORM OF SUBMITTALS

- A. Bind in new, commercial-quality, 8-1/2 inches X 11 inches, three-ring side binders with hardback, cleanable, plastic covers.
- B. Label cover of each binder with typed or printed title "WARRANTIES AND BONDS," with title of Project; name, address and telephone number of Contractor; and name of responsible principal.
- C. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Contract Documents, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
- D. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List subcontractor, supplier, and manufacturer, with name, address, and telephone number of the responsible principal.
- E. Provide an electronic pdf copy of all warranties submitted.

1.6 WARRANTY REQUIREMENT

- A. Related Damages and Losses: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- B. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- C. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the City has benefited from use of the Work through a portion of its anticipated useful service life.
- D. City's Recourse: Written warranties made to the City are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods

be interpreted as limitations on time in which the City can enforce such other duties, obligations, rights, or remedies.

- E. Rejection of Warranties: The City reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
- F. The City reserves the right to refuse to accept Work for the project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.
- G. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, Manufacturers, and subcontractors required to countersign special warranties with the Contractor.

1.7 DEFINITIONS

- A. Standard Product Warranties are preprinted written warranties published by individual Manufacturers for particular products and are specifically endorsed by the Manufacturer to the City.
- B. Special Warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the City.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 017839

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

- 1.1 MAINTENANCE OF DOCUMENTS AND SAMPLES
 - A. Maintaining and submitting project record documents and samples.
 - B. The Contractor shall maintain at the site for the City one (1) record copy of:
 - 1. Construction Plans
 - 2. Technical Specifications
 - 3. Addenda
 - 4. Change Orders and other Modifications to the Contract
 - 5. Approved Shop Drawings, Product Data, and Samples for which samples are specified to be furnished
 - 6. Field test records
 - 7. Detailed Progress Schedule
 - 8. Inspection certificates.
 - 9. Manufacturers' certificates.
 - 10. Manufacturers' operating and maintenance manuals.
 - 11. Up to date project as-built red-lines.
 - C. At Contract closeout, deliver signed and sealed (as applicable) as-builts and other record documents and samples to the City for the City.
- 1.1 RELATED REQUIREMENTS
 - A. Section 013000: Shop Drawings, Submittals and Samples.
 - B. Section 017710: Contract Closeout.

1.2 RECORDING

- A. Record information on a full-size set of Construction Plans.
- B. Use separate colors for each major system for recording information.
- C. Record information concurrently with construction progress. Do not conceal any work until required information is recorded.
- D. Measured locations shall be referenced to horizontal and vertical datums of the original Construction Plans.
- E. Utility As-Built Drawings: The utility as-built drawings shall correctly and accurately show all utilities found during construction and shall reflect all new construction as it was built. These drawings shall be neat and legible, showing only the actual position of the utilities and not the proposed. The drawings shall show all elevations and horizontal control for all utilities encountered. They shall include but not limited to, the material used to construct the utilities and all structures, pipes, and fittings. At a minimum, comply with the following:
 - 1. Identify all utility conflicts and crossings. Provide horizontal locations and elevations of each utility at conflicts and crossing. Identify the material, size, usage, etc., for each utility line.
 - 2. Provide horizontal locations and elevations at top of pipe elevations at an interval not exceeding 100 LF. Finished grade elevations shall be recorded at each location.
 - 3. Provide surveyed horizontal locations and elevations and swing ties on all underground appurtenances, including but not limited to:
 - a. Ductile iron fittings
 - b. Couplings
 - c. Valves
 - d. Provide top of nut elevations for valves and top of pipe elevations adjacent to valves.
 - e. Service saddles
 - f. Meters
 - g. Air release assemblies
 - h. End points of casings
 - i. End points of pipe installed by horizontal directional drilling methods
 - 4. For each underground appurtenance, provide three-point swing-ties (maximum distance of 200 feet). Swing ties shall be measured from permanent reference points (i.e., edge of power or telephone poles, center of manholes and storm inlet structures, building corners, fire

hydrant bonnets, and other objects not likely to be relocated at a later time). Unacceptable reference points shall include fence posts, street curbs, driveway comers, trees, signs, valve boxes, nails, survey marks, etc.

5. Identify limits of restrained joint pipe.
6. Identify locations for changes in pipe material.
7. Identify limits of utilities abandoned in place, if applicable.
8. Identify changes made by addenda or modifications.
9. Provide details not on the Plans.
10. As-built drawing information shall be provided to the City and Engineer in pdf format and as a single utility layer in AutoCAD, or as a GIS Shape File. Hard copies of the as-builts shall be signed and sealed by Florida Licensed Surveyor.

F. Specifications: Legibly mark each item to record actual construction, including:

1. Manufacturer, trade name, and catalog number of each product actually installed, particularly optional items and substitute items.
2. Changes made by addenda or modifications.

G. Other Required Record Documents:

1. Maintain manufacturers' certifications, inspection certifications, and field test records, required by individual Technical Specification Sections.
2. Provide bore logs for underground utilities installed using horizontal directional drilling methods. A minimum of one reading for each rod length of bore constructed shall be included. The bore log shall include horizontal and vertical locations for each point referenced to the horizontal and vertical datums used in preparing the Plans.

1.3 STORMWATER POLLUTION PREVENTION PLANS

A. In accordance with EPA Guidelines, prepare an National Pollutant Discharge Elimination System (NPDES) plan and maintain records on stormwater management controls and inspections. Prepare an inspection and maintenance plan that corresponds to the sequencing of major activities.

1. Reference Document: U.S. EPA Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92-005, September, 1992.
- B. Provide for inspection of silt fencing and erosion control measures once every seven (7) days or after each rainfall event.
- C. Keep a record of these inspections in the field office. Note any changes to best management practices shown in the Contract Documents.
 1. Record the amount of rainfall on a daily basis.
 2. Dates when major grading activities occur.
 3. Dates when construction activities temporarily cease.
 4. Dates when construction activities permanently cease.
 5. Report any release of reportable quantities of oil or hazardous materials.
- D. Update and change the Stormwater Pollution Prevention Plan as necessary to address any change in design or construction operation.

1.4 SUBMITTALS

- A. At Contract closeout, the Contractor shall deliver all project record documents and samples specified herein to the City for use in the preparation of Project Record Drawings.
- B. As-built drawings shall be submitted to the City in the following format:
 1. One (1) CDs/DVDs or USB flash drive with as-built drawings in both PDF and AutoCAD formats.
 - a. AutoCAD Format: Utilize the existing AutoCAD design as a base and add new information. New items shall be included on new, clearly identified layers.
 2. One (1) full-size original and one (1) 11"X17" hard copies signed and sealed by a Florida Licensed Surveyor.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 018050

COLOR AUDIO-VIDEO PRECONSTRUCTION RECORD

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Prior to commencing work, the Contractor shall have a detailed, continuous, color digital audio-video recording taken along the entire length of the Project to serve as a record of preconstruction conditions. All recordings and written video log records shall become property of the City.

1.2 SCHEDULE

- A. The Contractor shall notify the City two (2) weeks prior to conducting electronic site recordings so the City can notify residents and/or prepare a press-release if necessary. This notification to the City shall include the name of the company performing recordings and a description of identification used (i.e., vehicle logo).
- B. No construction shall begin prior to review and approval of the site recordings covering the construction area by the City.

1.3 VIDEOGRAPHERS

- A. The Contractor shall employ a competent party or commercial firm known to be skilled and regularly engaged in the business of preconstruction color digital audio-video site documentation.
 - 1. The City shall have the authority to reject all or any portion of a site recording not conforming to this Section and order that it be redone at no additional charge. The Contractor shall reschedule unacceptable coverage within five (5) calendar days after being notified. The City shall designate those areas, if any, to be omitted from or added to the audio-video coverage.

PART 2 – PRODUCTS

2.1 GENERAL

- A. Each audio-video recording shall be saved on DVD media viewable on standard DVD players and computers. The DVD video recording shall

produce bright, sharp, clear pictures with accurate colors and shall be free from distortion or any other form of picture imperfection. All DVD video recordings shall display on the screen the time of day, the month, day, and year of the recording. This time and date information must be continuously and simultaneously generated with the actual recording. The audio portion of the recording shall produce the commentary of the camera operator with proper clarity and be free from distortion.

2.2 EQUIPMENT

- A. Camera and Recorder: The video camera and recorder used in the electronic media site recordings shall be of industrial grade, consistent with current standards, and subject to approval by the City. The camera shall be a high-resolution, color digital recorder with optical stabilization and 20X minimum optical magnification. The camera shall also have a minimum NTSC 525 lines resolution/60 fields/30 frames per second.
- B. Wheeled Vehicles: Clearly mark any vehicles used for recording purposes with company's name and telephone number. Vehicles shall incorporate signs, flaggers, and lights as needed for safety purposes.
- C. Electronic Media: DVDs shall be original, previously unrecorded, blank media.

PART 3 – EXECUTION

3.1 COVERAGE

- A. The recordings shall contain coverage of all surface features within and directly adjacent to the construction zone. These features shall include, but not be limited to, all roadways, pavement, retention ponds, railroad tracks, curbs, bridges, bridge abutments, driveways, sidewalks, culverts, headwalls, retaining walls, landscaping, signs, mailboxes, trees, and fences. Of concern, shall be the existence or non-existence of any faults, fractures, or defects. Coverage shall be limited to one side of the street at one time and shall include all surface conditions located within the zone of influence supported by appropriate audio description. Panning, zoom-in, and zoom-out rates shall be sufficiently controlled to maintain a clear view of the object.

3.2 AUDIO RECORDING

- A. Accompanying the video recording of each electronic media presentation shall be a corresponding and simultaneously recorded audio recording. This audio recording, exclusively containing the commentary of the camera operator shall assist in viewer orientation and in any needed identification, differentiation, clarification, or objective

description of the features being shown in the video portion of the recording. The audio recording shall also be free from any conversation between the Contractor, camera operator, and any other production technicians.

3.3 ELECTRONIC MEDIA INDEXING

- A. All electronic media site recordings shall be permanently labeled and shall be properly identified by electronic media site recording number and project title.
- B. Electronic Media Site Recordings Log: Each electronic media site recording shall have a log of that recording's contents. The log shall describe the various segments of coverage contained on that recording (e.g., the names of the streets, waterways, or easements; coverage beginning and end times; directions of coverage; video unit counter numbers; engineering stationing numbers, when possible; and the date of recording).

3.4 TIME OF EXECUTION

- A. Visibility: All recording shall be performed during time of good visibility; no recording shall be done during periods of significant precipitation, mist, or fog. The recording shall only be done when sufficient sunlight is present to properly illuminate the subject and to produce sharp, bright video recordings of those subjects.

3.5 CONTINUITY OF COVERAGE

- A. In order to insure the continuity of coverage, the coverage shall consist of a single continuous unedited recording which begins at one end of a particular construction area. However, where coverage is required in areas not accessible by conventional wheeled vehicles and smooth transport of the recording system is not possible, such coverage shall consist of an organized interrelated sequence of recordings at various positions along that proposed construction area (e.g., a wooded easement area). Such coverage shall be obtained by walking or by a special conveyance approved by the City.

3.6 COVERAGE RATES

- A. Rate of speed in the general direction of travel of the vehicle used during videoing shall not exceed 75 feet per minute. Panning, zoom-in, and zoom-out rates shall be sufficiently controlled to maintain a clear view of the object.

3.7 CAMERA OPERATION

- A. Camera Height and Stability: When conventional wheeled vehicles are used as conveyances for the recording system, the vertical distance between the camera lens and the ground shall not exceed ten (10) feet. The camera shall be firmly mounted such that transport of the camera during the recording process will not cause an unsteady picture.
- B. Camera Control: Camera pan, tilt, zoom-in, and zoom-out rate shall be sufficiently controlled such that recorded objects shall be clearly viewed during audio-video playback. In addition, all other camera and recording system controls, such as lens focus and aperture, video level, pedestal, chroma, white balance, and electrical focus shall be properly controlled or adjusted to maximize picture quality.
- C. Viewer Orientation Techniques: The audio and video portions of the recording shall maintain viewer orientation. To this end, overall establishing views of all visible house and business addresses shall be utilized. In areas where the proposed construction location will not be readily apparent to the electronic media viewer, highly visible yellow flags shall be placed, by the Contractor, in such a fashion as to clearly indicate the proposed center line of construction.

END OF SECTION

SECTION 311010

DEWATERING

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Dewatering shall include all necessary control and disposal of groundwater on a continual basis during construction.
- B. Dewatering shall include the lowering of the groundwater table to relieve any hydrostatic head that could cause a decrease in the stability of the excavated subgrade. It shall also include the intercepting of seepage which could otherwise emerge from the slope or sides of excavations which could cause a decrease in the stability of the excavated subgrade or the slopes or sides of the excavations.

1.2 ADDITIONAL PROVISIONS

- A. Provide, operate, and maintain any dewatering system required to lower and control groundwater levels and groundwater hydrostatic pressure during the construction of the Work as required by this Section and the Contract Documents. The Contractor shall assume full responsibility and expense for the adequacy of the dewatering system with no additional time for performance.
- B. The development, drilling, operation, and abandonment of all wells used in the dewatering system shall comply with regulations of the Florida Department of Environmental Protection and the Southwest Water Management District.
- C. Remove and dispose of water resulting from activities described in this Section. Provide siltation settling basins for all discharges from dewatering systems. Submit plan of settling basins and discharge facilities for review by the City prior to dewatering system installation.
- D. Remove dewatering systems and equipment when no longer required.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 EXECUTION

- A. The dewatering system shall be capable of developing an excavated subgrade relieved of any hydrostatic pressure that could cause a decrease in the stability of the excavated subgrade and which will provide the necessary groundwater control for the proper performance required for completion of the Work.
- B. The dewatering system shall not cause damage to newly constructed or existing properties, buildings, utilities, and other work due to the loss of support from incompletely drained soils or from removal of soil particles resulting from the dewatering system operation.
- C. Dewatering facilities shall be located where they will not cause interference with work performed by others.
- D. If the dewatering system utilized by the Contractor causes or threatens to cause damage to new or existing facilities, the dewatering system shall be modified at no additional cost to the City. The Contractor shall be responsible for and shall repair all damage caused by the dewatering system operation at no additional cost to the City and at no additional time for performance.
- E. Dispose of subsurface water collected in a manner which conforms to all applicable local and state ordinances, statutes, and laws.
- F. Maintain continual and complete effectiveness of the dewatering system operation to provide a firm, stable, excavated subgrade at all times as required for proper performance of the Work.
- G. Provide dewatering necessary to maintain the groundwater table below the level of backfill as it is being placed.

3.2 JOB CONDITIONS

- A. Erosion Control: Provide adequate protection from erosion from any of the dewatering operations utilized during the course of the construction. Any damage, disruption or interference to newly constructed work or existing properties, buildings, structures, utilities and/or other work resulting directly or indirectly from dewatering operations conducted under this Contract shall be remedied by the Contractor, at no cost to the City.
- B. Treatment of Dewatering Operations Discharges: Provide such additional treatment devices as may be required to meet the provisions of the Contract. This may include the construction of sumps and/or

settling basins, stone rip-rap, silt fences or other requirements. The treatment devices shall be later removed and/or filled in with acceptable backfill material, and restored to original conditions once they are no longer needed, at no additional cost to the City.

- C. Noise Control: All Work under this Section shall executed in accordance with all Noise Ordinances of the City of North Port.

END OF SECTION

SECTION 311020

TRENCHING, BACKFILLING AND COMPACTION

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and perform all trenching for pipelines and appurtenances, including drainage, filling, backfilling, disposal of surplus material and restoration of trench surfaces and easements.
- B. Excavation shall extend to the width and depth shown on the Construction Plans or as specified herein and shall provide suitable room for installing pipe, structures and appurtenances.
- C. Furnish and place all sheeting, bracing and supports and remove from the excavation all materials which the City or Engineer may deem unsuitable for backfilling. The bottom of the excavation shall be firm and dry and in all respects. If conditions warrant, deposit gravel for pipe bedding, or gravel refill for excavation below grade, directly on the bottom of the trench immediately after excavation has reached the proper depth and before the bottom of the trench has become softened or disturbed by any cause. The length of open trench shall be related closely to the rate of pipe laying. All excavation shall be made in open trenches.
- D. All excavation, trenching and related sheeting, bracing, etc., shall conform to the requirements of the Florida "State Safety Act" (CS/SB 2626) which incorporates, by reference, OSHA's excavation safety standards, 29 CFR 1926 Subpart P.
- E. Wherever the requirement for 95 or 98 percent compaction is referred to herein it shall mean "at least 95 or 98 percent of maximum density as determined by ASTM D1557, Method D".
- F. Prior to the start of work submit the proposed method of backfilling and compaction to the Engineer and City for review.
- G. All erosion and sediment control shall be in accordance with FDOT Standard Specifications for Road and Bridge Construction, latest edition.

1.2 RELATED WORK

A. Granular fill material is included in Section 311030.

1.3 DEWATERING

A. See Section 311010 Dewatering.

1.4 JOB CONDITIONS

A. The Contractor shall examine the site and review the available test borings or undertake his/her own soil borings prior to submitting his/her bid, taking into consideration all conditions that may affect his/her work. The City will not assume responsibility for variations of sub-soil quality or conditions at locations other than places shown and at the time the investigation was made. Boring log data and soil samples shall be examined if applicable.

B. Existing Utilities: Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations.

1. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, notify the City of such piping or utility immediately for direction.
2. Cooperate with the City and utility companies in keeping respective services and facilities in operation. Repair/replace damaged utilities to satisfaction of utility owner.
3. Demolish and completely remove from site existing underground utilities indicated on the Construction Plans to be removed.

C. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights and/or signs. Operate warning lights shall be used as recommended by authorities having jurisdiction.

1. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations.

1.5 SUBMITTALS

A. Submit, in accordance with Section 013000, complete product data for materials specified in this Section.

B. For each material obtained from other than onsite sources, the Contractor shall notify the Engineer and the City of the source of the

material.

- C. Furnish product data for all imported fill material to include:
 - 1. Material Source: Submit name of imported material suppliers.
 - 2. Supplier's Certificate: Certify that products meet or exceed specified requirements.
- D. Two (2) certified copies of density test results be submitted on a monthly basis.

1.6 REFERENCED STANDARDS

- A. American Association of State Highway and Transportation Officials:
 - 1. AASHTO M 288 - Geotextiles.
- B. ASTM International:
 - 1. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
 - 2. ASTM D 4355 / D 4355M - Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus.
 - 3. ASTM D 4533/ D 4533M - Standard Test Method for Trapezoid Tearing Strength of Geotextiles.
 - 4. ASTM D 4632/ D 4632M - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.
 - 5. ASTM D 6241 - Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe.
 - 6. ASTM D 4751 - Standard Test Methods for Determining Apparent Opening Size of a Geotextile.
- C. Florida "State Safety Act" (CS/SB 2626).
- D. FDOT Standard Specifications for Road and Bridge Construction.
- E. Occupational Safety and Health Administration (OSHA):

1. 29 CFR Part 1926 Subpart P.

- F. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Base, Fill, and Backfill:

1. Satisfactory soil materials are defined as those complying with American Association of State Highway and Transportation Officials (AASHTO) M 145, soil classification Groups A-2 and A-3.
2. Unsatisfactory soil materials are those defined in AASHTO M 145 soil classification Groups A-1, A-24, A-25, A-26, A-27, A-4, A-5, A-6, and A-7 along with peat and other highly organic soils.

B. Structural Fill:

1. Well graded soil material consisting of coarse aggregate to medium to fine grain sized sand, free of organic, deleterious and/or compressible material.
 - a. Shall not contain rock or stones exceeding three and one-half (3-1/2") inches in diameter, hardpan, cobbles, or other similar materials.

C. Select Common Fill:

1. Soil material containing no more than 15 percent by weight finer than No. 200 mesh sieve.
 - a. Shall be free from organic matter, muck, marl, rock exceeding three and one-half (3-1/2") inches in diameter, broken concrete, masonry, rubble, or other similar materials.
2. Material falling within the above specification, encountered during the excavation, may be stored in segregated stockpiles for reuse. All material which, in the opinion of the Engineer or the City, is not suitable for reuse shall be spoiled as specified herein for disposal of unsuitable materials.

D. Bedding Rock:

1. Bedding rock shall be FDOT No. 57, gradation washed and graded

lime rock or shell.

2.2 GEOTEXTILES

- A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
1. Survivability: Class 3; AASHTO M 288.
 2. Survivability: As follows:
 - a. Grab Tensile Strength: 120 lbf (534 N); ASTM D 4632/ D 4632M.
 - b. Tear Strength: 50 lbf (223 N); ASTM D 4533/D 4533 M.
 - c. Puncture Strength: 310 lbf 1 N); ASTM D 6241.
 3. Apparent Opening Size: No. 70 (0.212-mm) sieve, maximum; ASTM D 4751.
 4. Permittivity: 0.1 per second, minimum; ASTM D 4751.
 5. UV Stability: 70 percent after 500 hours' exposure; ASTM D 4355/D 4355M.
 6. Product: Provide "Mirafi 140N," by TenCate Geosynthetics – Nicolon Corporation, or approved equal.

PART 3 – EXECUTION

3.1 GENERAL

- A. All excavation, backfill, and grading necessary to complete the work shall be made by the Contractor and the cost thereof shall be included in the contract price.
- B. Material shall be furnished as required from off-site sources and hauled to the site.
- C. The Contractor shall take all the necessary precautions to maintain the work area in a safe and workable condition.
- D. The Contractor shall always protect his/her work by flagging, marking, lighting, and barricading. It shall also be the Contractor's responsibility to

preserve and protect all above and underground structures, pipe lines, conduits, cables, drains or utilities which are existing at the time he/she encounters them. Failure of the Construction Plans to show the existence of these obstructions shall not relieve the Contractor from this responsibility. The cost of repair of any damage which occurs to these obstructions during or as a result of construction shall be borne by the Contractor without any additional cost to the City.

3.2 TRENCH EXCAVATION

- A. Trench excavation shall include material of every description and of whatever substance encountered, except rock and boulders. Pavement shall be cut with a saw, wheel or pneumatic chisel along straight lines before excavating.
- B. Strip and stockpile topsoil from grassed areas crossed by trenches. At the Contractor's option, topsoil may be otherwise disposed of and replaced, when required, with approved topsoil of equal quality.
- C. While excavating and backfilling is in progress, traffic shall be maintained, and all utilities and other property protected as provided in the General Conditions and General Requirements.
- D. Excavation for all trenches required for the installation of pipes and electrical ducts shall be made to the depths indicated in the Construction Plans. Excavate in such manner and to such widths as will give suitable room for laying the pipe or installing the ducts within the trenches, for bracing and supporting and for pumping and drainage facilities. The trench width at the top of the pipe shall not exceed the allowable as determined by the depth of cut and indicated in the Construction Plans.
 - 1. For water mains, excavate trench to provide a minimum of 36 inches of clear cover over the pipe bell unless otherwise noted in the Construction Plans or herein.
- E. Excavation and dewatering shall be accomplished by methods which preserve the undisturbed state of subgrade soils. The trench may be excavated by machinery to, or just below the designated subgrade, provided that material remaining in the bottom of the trench is no more than slightly disturbed. Subgrade soils which become soft, loose, "quick", or otherwise unsatisfactory as a result of inadequate excavation, dewatering or other construction methods shall be removed and replaced by screened gravel fill as required by the Engineer at the Contractor's expense.
- F. Clay and organic silt soils are particularly susceptible to disturbance due to construction operations. When excavation is to end in such soils, use

a smooth-edge bucket to excavate the last one (1) foot of depth.

- G. Rock shall be removed to a minimum four (4") inches to six (6") inches of clearance around the bottom and sides of all the pipe or ducts being laid as shown in the Construction Plans.
- H. The bottom of the excavations shall be firm and dry and, in all respects, acceptable to the City. Excavate unsatisfactory soil material from the bottom of the trench to a depth determined by the City and replace with rock or shell bedding.
- I. Where pipe or ducts are to be laid in bedding or encased in concrete the trench may be excavated by machinery to, or just below, the designated subgrade provided that the material remaining in the bottom of the trench is no more than slightly disturbed.
- J. Where the pipes or ducts are to be laid directly on the trench bottom the lower part of the trenches shall not be excavated to the trench bottom by machinery. The last of the material being excavated shall be done manually in such a manner that will give a flat bottom true to grade so that pipe or duct can be evenly and uniformly supported along its entire length on undisturbed material or bedding rock. Bell holes shall be made as required manually so that there is no bearing surface on the bells and pipes are supported along the barrel only.

3.3 PIPE INTERFERENCES AND ENCASEMENT

- A. The Contractor shall abide by the following schedule of criteria concerning interferences with other utilities. In no case shall there be less than 0.3 feet between any two pipe lines or between pipe lines and structures. Concrete encasement shall be provided in accordance with the typical detail as shown in the Construction Plans.

3.4 BEDDING

- A. Where select common bedding material is used for pipe support as shown in the Construction Plans, the trench bottom or bedding should be prepared in accordance with Paragraph 3.2.E of this Section and the top six (6") inches shall be compacted using mechanical equipment to a minimum of 95 percent (or 98 percent if adjacent to a roadway) of the maximum dry density as determined by ASTM D1557, Method D.
- B. Where rock or shell is used for pipe support, gravity sewer pipe shall have rock or shell bedding to six (6") inches over top of pipe, and four (4") inches to six (6") inches below the invert. Pressure pipe shall have rock or shell bedding to springline of pipe, and four (4") inches to six (6") inches below the invert depending on the diameter as shown in the Construction Plans. Rock or shell bedding shall be placed in maximum

lift thicknesses of four (4") inches to six (6") inches with each lift compacted using mechanical equipment.

- C. Rock or shell bedding may be used under certain circumstances as a drain for ground water control, subject to the approval of the City. The Contractor shall take all precautions necessary to maintain the shell or rock bedding in a compacted state and to prevent washing, erosion, or loosening of this bed.

3.5 SHEETING AND BRACING

- A. Furnish, put in place and maintain sheeting and bracing required by Federal, State or local safety requirements to support the sides of the excavation and prevent loss of ground which could endanger personnel, damage or delay the work or endanger adjacent structures. If the Engineer is of the opinion that at any point sufficient or proper supports have not been provided, he/she may order additional supports placed at the expense of the Contractor. Compliance with such order shall not relieve the Contractor from his/her responsibility for the sufficiency of such supports. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed.
- B. Where sheeting and bracing is required to support the sides of trenches, engage a professional engineer, registered in the State of Florida, to design the sheeting and bracing. The sheeting and bracing installed shall be in conformity with the design and certification of this shall be provided by the professional engineer.
- C. When moveable trench bracing such as trench boxes, moveable sheeting, shoring or plates are used to support the sides of the trench, care shall be taken in placing and moving the boxes or supporting bracing to prevent movement of the pipe, or disturbance of the pipe bedding and the screened gravel backfill.
 - 1. When installing rigid pipe (R.C., V.C., A.C., etc.), any portion of the box extending below mid diameter shall be raised above this point prior to moving the box ahead to install the next pipe. This is to prevent the separation of installed pipe joints due to movement of the box.
 - 2. When installing flexible pipe (PVC, etc.), trench boxes, moveable sheeting, shoring or plates shall not be allowed to extend below mid-diameter of the pipe. As trench boxes, moveable sheeting, shoring or plates are moved, screened gravel shall be placed to fill any voids created and the screened gravel and backfill shall be re-compacted to provide uniform side support for the pipe.

- D. Permission will be given to use steel sheeting in lieu of wood sheeting for the entire job wherever the use of sheeting is necessary. The cost for use of sheeting will be included in the bid items for pipe and shall include full compensation for driving, bracing and later removal of sheeting.
- E. All sheeting and bracing shall be carefully removed in such manner as not to endanger the construction of other structures, utilities, or property, whether public or private. All voids left after withdrawal of sheeting shall be immediately refilled with sand by ramming with tools especially adapted to that purpose, by watering or otherwise as directed.
- F. No payment will be given for sheeting, bracing, etc., during the progress of the work. No payment will be given for sheeting which has been left in the trench for the convenience of the Contractor.
- G. Sheetting driven below mid-diameter of any pipe shall remain in place from the driven elevation to at least one (1') ft above the top of the pipe.

3.6 TEST PITS

- A. Excavation of test pits may be required for the purpose of locating underground utilities or structures as an aid in establishing the precise location of new work.
- B. Test pits shall be backfilled as soon as the desired information has been obtained. The backfilled surface shall be maintained in a satisfactory condition for travel until resurfaced as specified.

3.7 BACKFILLING

- A. Backfilling over pipes shall begin as soon as practicable after the pipe has been laid, jointed, and inspected and the trench filled with suitable bedding material.
- B. Backfilling over ducts shall begin not less than three (3) days after placing concrete encasement.
- C. All backfilling shall be performed expeditiously and as detailed in the Construction Plans.
- D. Any space remaining between the pipe and sides of the trench shall be packed full by hand shovel with selected earth, free from stones having a diameter greater than two (2") inches and thoroughly compacted with a tamper as fast as placed, up to a level of one (1') foot above the top of the pipe. The material shall be compacted to a minimum of 95 percent (or 98 percent if adjacent to a roadway) of the maximum dry density as

determined by ASTM D1557, Method D in layers not to exceed four inches (4") up to the centerline of the pipe from the trench bottom and in layers not to exceed six (6") inches from the pipe centerline to twelve (12") inches above the pipe.

- E. The filling shall be carried up evenly on both sides with at least one person tamping for each person shoveling material into the trench.
- F. The remainder of the trench above the compacted backfill, as just described above, shall be filled and thoroughly compacted with select common fill with mechanical equipment. Compact select common fill in six (6") inch layers to a minimum of 95 percent (or 98 percent if adjacent to a roadway) of the maximum dry density determined by ASTM D1557, Method D.
- G. Where the pipes are laid in streets, the remainder of the trench up to a depth of twelve (12") inches below the bottom of the specified permanent paving shall be backfilled with common fill material in layers not to exceed one (1') foot and thoroughly compacted. The subbase layer for paving shall be of bank-run gravel thoroughly compacted in six (6") inch layers.
- H. In locations where pipes pass through building walls, the Contractor shall take the following precautions to consolidate the refill up to an elevation of at least one (1') foot above the bottom of the pipes:
 - 1. Place structural fill in such areas for not less than three (3') feet either side of the center line of the pipe in level layers not exceeding six (6") inches in depth.
 - 2. Wet each layer to the extent requested and thoroughly compact each layer with a power tamper.
- I. To prevent longitudinal movement of the pipe, dumping backfill material into the trench and then spreading will not be permitted until selected material or screened gravel has been placed and compacted to a level one (1') foot over the pipe.
- J. Backfill shall be brought up evenly on all sides. Each layer of backfill material shall be thoroughly compacted by rolling, tamping, or vibrating with mechanical compacting equipment or hand tamping, to 92 percent compaction. If rolling is employed, it shall be by use of a suitable roller or tractor, being careful to compact the fill throughout the full width of the trench.
- K. Compaction by puddling or water jetting shall not be permitted.

- L. Compaction in confined areas shall be by use of hand or pneumatic ramming with tools weighing at least 20 lbs. The material shall be spread and compacted in layers not exceeding six (6") inches thick, uncompacted loose measure thickness.
- M. Backfill around structures shall be granular fill material as specified and as shown on the Drawings. All backfill shall be spread and compacted as specified, especially under and over pipes connected to the structures.
- N. Bituminous paving shall not be placed in backfilling unless specifically permitted, in which case it shall be broken up as directed.
- O. All road surfaces shall be broomed and hose-cleaned immediately after backfilling. Dust control measures shall always be employed.
- P. The Contractor shall coordinate and pay for density tests to determine compaction of backfill spaced as required by the agencies having jurisdiction, or at a minimum of one in every 200 feet of trench cut per lift and shall include a test at the spring line of the pipe. The tests shall be sign and sealed by a Florida Licensed Engineer.

3.8 GRADING

- A. Grading shall be performed at such places as are indicated in the Construction Plans, to the lines, grades, and elevations shown or as approved by the City and shall be made in such a manner that the requirements for formation of embankments can be followed. All unacceptable material encountered, of whatever nature within the limits indicated, shall be removed and disposed of as requested. During the process of excavation, the grade shall be maintained in such condition that it will always be well drained. Temporary drains and drainage ditches shall be installed to intercept or divert surface water which may affect the prosecution or condition of the Work.
- B. If at the time of excavation, it is not possible to place any material in its proper section of the permanent structure, it shall be stockpiled in approved areas for later use. No extras will be considered for the stockpiling or double handling of excavated material.
- C. The right is reserved to make minute adjustments or revisions in lines or grades if found necessary as the work progresses, due to discrepancies in the Construction Plans or in order to obtain satisfactory construction.
- D. Stones or rock fragments larger than one and one-half (1-1/2") inches in their greatest dimensions will not be permitted in the top one (1') foot of the subgrade line of all dikes, fills, or embankments.

- E. All fill slopes shall be uniformly dressed to the slope, cross section, and alignment shown in the Construction Plans, or as approved in writing by the City.
- F. In cuts, all loose or protruding rocks on the back slopes shall be jarred loose or otherwise removed to line or finished grade of slope. All cut and fill slopes shall be uniformly dressed to the slope, cross section, and alignment shown in the Construction Plans or as approved in writing by the City.
- G. No grading is to be done in areas where there are existing pipe lines that may be uncovered or damaged until such lines which must be maintained are relocated, or where lines are to be abandoned, all required valves are closed and drains plugged at manholes.
- H. The Contractor shall replace all pavement cut or otherwise damaged during the progress of the Work as specified elsewhere herein.

3.9 RESTORING TRENCH SURFACE

- A. Where the trench occurs adjacent to paved streets, in shoulders, sidewalks, or in cross-country areas, thoroughly consolidate the backfill and maintain the surface as the work progresses. If settlement takes place, immediately deposit additional fill to restore the level of the ground.
- B. In streets and adjacent to streets, the twelve (12") inches of trench backfill below the specified initial pavement shall consist of compacted bank-run gravel. Should the Contractor wish to use material excavated from the trench as gravel subbase for pavement replacement, the Contractor shall, at his/her own expense, have samples of the material tested by an independent testing laboratory at intervals not to exceed 500-ft, in order to establish its compliance with the specifications. Only material which has been tested and approved by the Engineer shall be allowed to be incorporated into the work.
- C. The surface of any driveway or any other area which is disturbed by the trench excavation and which is not a part of the paved road shall be restored to a condition at least equal to that existing before work began.
- D. In sections where the pipeline passes through grassed areas, the Contractor, shall at his/her own expense, remove and replace the sod, or loam and seed the surface to the satisfaction of the Engineer.

3.10 DISPOSAL OF UNSUITABLE AND SURPLUS MATERIAL

- A. Excavated material shall be stacked without excessive surcharge on the trench bank or obstructing free access to hydrants and gate valves. Inconvenience to traffic and abutters shall be avoided as much as possible. Excavated material shall be segregated for use in backfilling as specified below.
- B. All surplus and/or unsuitable excavated material shall be disposed of in the following manner:
 - 1. Transport from City's property and legally dispose the material. Any permit required for the hauling and disposing of this material beyond City's property shall be obtained prior to commencing hauling operations.
- C. Suitable excavated material may be used for fill if it meets the Technical Specifications for select common fill and is approved by the Engineer and the City. Excavated material that has been approved may be neatly stockpiled at the site in a location designated by the City, provided there is an area available where it will not interfere with the operation of the facility nor inconvenience traffic or adjoining property owners.

END OF SECTION

SECTION 311050

CLEANING

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. The Contractor shall execute cleaning, during progress of the Work, and at completion of the Work.

1.2 DISPOSAL REQUIREMENTS

- A. Conduct cleaning and disposal operations to comply with codes, ordinances, regulations, and anti-pollution laws.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 DURING CONSTRUCTION

- A. Execute daily cleaning to keep the Work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations.
- B. Provide onsite containers for the collection of waste materials, debris and rubbish. All waste materials including containers, food debris and other miscellaneous materials must be disposed of daily in onsite containers.
- C. Remove waste materials, debris and rubbish from the site periodically and dispose of at legal disposal areas away from the site.

3.2 FINAL CLEANING

- A. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels, and other foreign materials from sight-exposed interior and exterior surfaces.
- B. Broom clean exterior paved surfaces; rake clean other surfaces of the grounds.
- C. Prior to final completion, or City occupancy, Contractor shall conduct an inspection of sight-exposed interior and exterior surfaces, and all work areas, to verify that the entire Work is clean.

END OF SECTION

SECTION 321010

PAVEMENT REPAIR AND RESTORATION

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. The Contractor shall furnish all labor, materials, equipment, incidentals, obtain any required right of-way permits and remove and replace pavements over trenches excavated for installation of water or sewer lines and appurtenances as shown on the Construction Plans and standard detail drawings.

1.2 GENERAL

- A. Trenching, Backfilling and Compaction is included in Section 311020.

1.3 SUBMITTALS

- A. Submit, in accordance with Section 013000, complete product data for materials specified in this Section.

PART 2 - PRODUCTS

2.1 PAVEMENT SECTION

- A. Performance / Design Criteria:

1. Superpave designs are defined for equivalent single axle loads (ESAL) ranging from 0.3 to 100 million over 20-year paving life. Consider rate of loading to avoid rutting damage that occurs in first few years of paving life. Estimating ESAL over 20 years for paving designed for shorter life span will affect paving design criteria.
2. Pavement Design: Superpave Type SP-9.5 or Type SP-12.5 as shown or specified and in accordance with Florida Department of Transportation Standard Specifications for Road and Bridge Construction or on the plans.

- B. Asphalt Materials:

1. Use asphalt binder for superpave performance graded asphalt designs.
2. Provisional standard, AASHTO MP1a, includes requirements for low temperature testing procedures. Both standards use same performance

grades. Verify standard permitted by FDOT requirements.

3. Materials for asphalt paving shall comply with Florida Department of Transportation Standard Specifications for Road and Bridge Construction and the plans.

2.2 MIXES

A. Asphalt Paving Mixtures:

1. Asphalt Paving Mixtures shall comply with Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Section 017710 – Contract Closeout

B. Verify utilities indicated under paving are installed with excavations and trenches backfilled and compacted.

C. Verify compacted subbase is dry and ready to support paving and imposed loads.

1. Proof roll subbase with a vibratory roller weighing a minimum of eight (8) tons or a sheepsfoot roller, where appropriate, exerting a compression of at least 250 pounds psi on the tamper foot for at least five (5) passes in minimum two (2) perpendicular passes to identify soft spots.
2. Remove soft subbase and replace with compacted fill as specified in Section 311030.

D. Verify gradients and elevations of base are correct.

E. Verify manhole frames and drainage structures are installed in correct position and elevation.

3.2 PREPARATION

A. Prepare subbase in accordance with Florida Department of Transportation standards and the plans.

3.3 DEMOLITION

- A. Saw cut and notch existing paving as indicted on plans.
- B. Clean existing paving to remove foreign material, excess joint sealant and crack filler from paving surface.
- C. Repair surface defects in existing paving to provide uniform surface to receive new paving.
- D. Remove demolished asphalt from Site and dispose of properly.

3.4 MILLING OF EXISTING ASPHALT PAVEMENT

- A. Perform all milling operations in accordance with Florida Department of Transportation standards.
- B. Remove existing raised pavement markers prior to milling.
- C. Do not disfigure adjacent Work.
- D. Provide a milling machine capable of maintaining a depth of cut and cross slope that will achieve the results specified in the Contract Documents.

1. Milling machine shall have a minimum overall length (out to out measurement excluding the conveyor) of eighteen (18) feet and a minimum cutting width of six (6) feet.
2. Milling machine shall be equipped with a built-in automatic grade control system that can control the transverse slope and the longitudinal profile to produce the specified results.
3. The City or Engineer will approve any commercially manufactured milling machine that meets the above requirements. If it becomes evident after starting milling that the milling machine cannot consistently produce the specified results, the City or Engineer will reject the milling machine for further use.
4. The Contractor may use a smaller milling machine when milling to lower the grade adjacent to existing curb or other areas where it is impractical to use the above described equipment.
5. Milling machine shall be equipped with means to effectively limit the amount of dust escaping during the removal operation.
6. For complete pavement removal, the Engineer may approve the use of alternate removal and crushing equipment.

- E. Execute removal to depth not less than the depth(s) shown on the plans at each point across full width of surface without detrimental aggregate degradation.
- F. Remove milled asphalt from project site and dispose of properly.

3.5 INSTALLATION

- A. Subbase: Prepare subbase in accordance with Florida Department of Transportation Standards.
- B. Prime Coat and Tack Coat: Install in accordance with Florida Department of Transportation Standards.
- C. Single Course Asphalt Paving:
 - 1. Install Work in accordance with Florida Department of Transportation Standards.
 - 2. Place asphalt within 24 hours of applying primer or tack coat.
 - 3. Place asphalt wearing course to thickness indicated on Plans/Details.
 - 4. Compact paving by rolling to specified density. Do not displace or extrude paving from position. Hand compact in areas inaccessible to rolling equipment.
 - 5. Perform rolling with consecutive passes to achieve even and smooth finish without roller marks.
- D. Double Course Asphalt Paving:
 - 1. Install Work in accordance with Florida Department of Transportation Standards.
 - 2. Place asphalt binder course within 24 hours of applying primer or tack coat.
 - 3. Place binder course to thickness indicated on Plans.
 - 4. Coordinate times for placement to allow for inspection and testing of each course.
 - 5. Place wearing course within 24 hours of placing and compacting binder course.
 - 6. When binder course is placed more than 24 hours before placing

wearing course, clean surface and apply tack coat before placing wearing course.

7. Place wearing course to thickness indicated on plans.
8. Compact each course by rolling to specified density. Do not displace or extrude paving from position. Hand compact in areas inaccessible to rolling equipment.
9. Perform rolling with consecutive passes to achieve even and smooth finish, without roller marks.

E. Asphalt Paving Overlay

1. Install Work in accordance with Florida Department of Transportation Standards.
2. Apply tack coat to existing paving surface at rate recommended by geotextile fabric manufacturer.
3. Place wearing course to thickness indicated on Plans.
4. Compact overlay by rolling to specified density. Do not displace or extrude paving from position. Hand compact in areas inaccessible to rolling equipment.
5. Perform rolling with consecutive passes to achieve even and smooth finish, without roller marks.

F. Place asphalt mixture when temperature is not more than 15 degrees F less than initial mixing temperature.

G. Curbs

1. Install extruded asphalt curbs of profile as indicated on plans.

3.6 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch measured with 10-foot straight edge.
- B. Scheduled Compacted Thickness: Within 3/16 inch.
- C. Variation from Indicated Elevation: Within 1/2 inch.

3.7 FIELD QUALITY CONTROL

- A. Asphalt Paving Mix Temperature: Measure temperature at time of placement.
- B. Asphalt Paving Thickness: ASTM D3549; test one core sample from every 1,000 square yards compacted paving.
- C. Asphalt Paving Density: Monitor the roadway density per FDOT standards with either 6-inch diameter roadway cores, a nuclear density gauge, or other density measuring device, at a minimum frequency of once per 1,500 feet of pavement.

3.8 PROTECTION

- A. Immediately after placement, protect paving from mechanical injury until surface temperature is less than 160 degrees F.
- B. Keep sections of newly compacted asphalt concrete, which are to be covered by additional courses, clean until the successive course is laid.
- C. Do not dump embankment or base material directly on the pavement. Dress shoulders before placing the friction course on adjacent pavement.

END OF SECTION

SECTION 321028

TOPSOIL

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Furnishing all labor, materials, equipment, and incidentals necessary to furnish, prepare, and spread topsoil, fertilizer, lime, and mulch as specified herein.
- B. Consideration shall be given to City of North Port Code of Ordinances, Chapter 22 Article II, Section 22-57, Timing of Application, Fertilizer and Landscape Management.

1.2 REFERENCE STANDARDS

- A. Florida Department of Transportation (FDOT):
 - 1. Standard Specifications for Road and Bridge Construction (Standard Specifications), latest edition.
 - 2. FDOT FM 1-T 267 – Florida Method of Test of Determination of Organic Content in Soils by Loss on Ignition.
- B. City of North Port:
 - 1. City of North Port Code of Ordinances, Chapter 22 Article II, Section 22-57, Timing of Application, Fertilizer and Landscape Management.

1.3 SUBMITTALS

- A. General: Submit all submittals to the City in accordance with Section 013000, Shop Drawings, Submittals, and Samples.
- B. Required Submittals:
 - 1. Product Data: Product literature showing compliance with the requirements herein and including source/supplier information (as required):
 - a. Topsoil.
 - b. Lime.

- c. Fertilizer.
- d. Mulch.

PART 2 - PRODUCTS

2.1 TOPSOIL

- A. Topsoil shall comply with the requirements of Section 162 – Prepared Soil Layer of the FDOT Standard Specifications for “Finish Soil Layer” and those requirements herein.
- B. Topsoil shall be reasonably free from subsoil, stumps, roots, brush, rock or stones exceeding two inches (2”) in diameter, clay lumps, trash, or other similar objects.
- C. Topsoil shall have a pH between 4.5 and 8.5 and shall have an organic content of 2.5 to 10 percent in accordance with FDOT FM 1-T 267.

2.2 LIME

- A. Lime shall be ground dolomite limestone, designated for agricultural use.

2.3 FERTILIZER

- A. Fertilizer shall comply with the requirements of Section 982 – Fertilizer of the FDOT Standard Specifications and those requirements herein.
- B. Fertilizer shall be a standard commercial fertilizer containing 12 percent nitrogen, 8 percent phosphoric acid, and 8 percent potassium.
- C. Fertilizer shall comply with the requirements of applicable state and federal laws and Code of the City of North Port Chapter 22 – Environmental and Natural Resources, Article II – Fertilizer and Landscape Management.

2.4 MULCH

- A. Mulch shall comply with the requirements of Section 981 – Turf Materials of the FDOT Standard Specifications.

PART 3 – EXECUTION

3.1 PREPARATION OF AREA

- A. Clear stones larger than two inches (2”) in diameter, sticks, and other debris which might interfere with the establishment, growth, or maintenance of acceptable turf and roller the area before applying

fertilizer and limestone.

3.2 PLACING TOPSOIL

- A. Evenly spread topsoil prepared area to a uniform depth of 4 inches, after compaction. Spreading shall not be done when the ground or topsoil is excessively wet or otherwise in a condition detrimental to the work. Spreading shall be carried on so that sodding operations can proceed with a minimum of soil preparation or tilling.
- B. After spreading, any large stiff clods and hard lumps shall be broken with a pulverizer or by other effective means and any subsoil, stumps, roots, brush, rock or stones exceeding 2 inches in diameter, clay lumps, trash, or other similar objects shall be removed.
- C. The final topsoil surface shall conform to the required lines, grades, and cross sections.
- D. Any topsoil or other dirt falling upon pavements as a result of hauling or handling of topsoil shall be promptly removed.

3.3 PLACING LIME, FERTILIZER, AND MULCH

- A. The rate and method of application of lime, fertilizer, and mulch shall comply with the recommendations of the supplier and the requirements of Code of the City of North Port Chapter 22 – Environmental and Natural Resources, Article II – Fertilizer and Landscape Management

3.4 DISPOSAL OF WASTE MATERIALS

- A. The Contractor shall dispose of all material and debris generated by hauling such material and debris away to an approved facility.

END OF SECTION

SECTION 321030

RESTORATION BY SEEDING OR SODDING

PART 1 - GENERAL

1.1 SCOPE

- A. The work in this section consists of furnishing all labor, material and equipment to restore all areas disturbed during construction to match preconstruction conditions. Establish a stand of grass within the areas disturbed by furnishing and placing grass sod where required, or by seeding and mulching areas not requiring sod.

1.2 REFERENCES

- A. Use materials conforming to the requirements of Florida Department of Transportation Standard Specifications for Road and Bridge Construction as follows:
1. Section 570 – Performance Turf
 2. Section 981 – Turf Materials
 3. Section 982 – Fertilizer
 4. Section 983 – Water for Grassing
- B. City of North Port Administrative Code, Chapter 22 Environmental and Natural Resources, Article II – Fertilizer and Landscape Management

1.3 SUBMITTALS

- A. Submit certifications and identification labels for all seeding or sodding supplied in accordance with Division 01 General Requirements, Section 013000 Shop Drawings, Submittals and Samples.

PART 2 - PRODUCTS

2.1 SODDING

- A. Types: Sod may be of either St. Augustine or Argentine Bahia grass or as that disturbed, as established prior to construction. Use well matted sod with roots. When replacing sod in areas that are already sodded, use sod of the same type as the existing sod.

- B. Provide sod as required in accordance with Florida Department of Transportation Specifications. Furnish sod equal to and similar in type as that disturbed. Place and water in accordance with FDOT Specifications.
- C. Use sod in commercial-size rectangles, preferably 12-inch by 24-inch or larger, except where 6-inch strip sodding is called for.
- D. Use sod that is sufficiently thick to secure a dense stand of live grass. Use sod that is live, fresh and uninjured at the time of planting, having a soil mat of sufficient thickness adhering firmly to the roots to withstand all necessary handling. It shall be reasonably free of weeds and other grasses. Plant sod as soon as possible after being dug, and shade and keep moist from the time it is dug until it is planted.
- E. Handle sod in a manner to prevent breaking or other damage. Do not handle by dumping from trucks or other vehicles. Use care to retain the native soil on the roots of each sod roll during stripping and handling. Sod that has been damaged by handling during delivery, storage or installation will be rejected.
- F. Swales: Place sod to the proper grade and cross section in all flow areas to ensure the design flow of water in the ditch. In excavating for the placement of sod, provide a minimum of 3 inches of undercut.

2.2 FERTILIZER

- A. Supply chemical fertilizer in accordance with the City of North Port Administrative Code, Chapter 22 Environmental and Natural Resources, Article II – Fertilizer and Landscape Management.

2.3 EQUIPMENT

- A. Spread fertilizer uniformly at the specified rate.

2.4 SEEDING

- A. Seed all unpaved areas disturbed during construction that do not require sod. Complete all seeding in conformance with FDOT Specifications Sections 570 and 981. Mulch the grassed areas in accordance with FDOT Specifications. Fertilize the grassed areas in accordance with City of North Port Administrative Code.
- B. Provide mulch material free of weeds. Mulch shall be oat straw or rye, Pangola, peanut, Coastal Bermuda, or Bahia grass hay.

- C. All seeds must have been tested within 6 months of planting. Submit a seed bag tag with final payment requests from each type or mixture of seed used.

2.5 TOPSOIL

- A. Topsoil stockpiled during excavation may be used. If additional topsoil is required to replace topsoil removed during construction, it shall be obtained off site at no additional cost to the City. Topsoil shall be fertile, natural surface soil, capable of producing all trees, plants, and grassing specified herein.

2.6 MULCH

- A. Furnish small grain straw mulch. Apply mulch at a rate of 1.5 tons per acre, corresponding to a depth not less than 1-inch or more than 3-inches according to texture and moisture content of mulch material. Apply asphalt emulsion at a rate of 150 gallons per ton of straw to anchor the straw applied.

2.7 WATER

Where water is required, the Contractor shall purchase it from the City. A meter will be installed on a fire hydrant, location to be determined by the Contractor and coordinated with the City. The Contractor shall pay all fees and water usage charges. Water is required during seeding and sodding operations and through the maintenance period and until the work is accepted. The Contractor shall make any arrangements that may be necessary to ensure there is an adequate supply of water to meet the needs for the work. The Contractor shall furnish all necessary hose, equipment, attachments, and accessories for the adequate irrigation of lawns and planted areas as may be required. Water shall be suitable for irrigation and free from ingredients harmful to plant life.

PART 3 – EXECUTION

3.1 SOD BED PREPARATION

- A. Clear areas to be sodded and/or seeded of all rough grass, weeds, and debris, and bring soil to an even grade.
- B. Thoroughly till soil to a minimum 4-inch depth.
- C. Bring area to proper grade, free of sticks, stones, or other foreign matter over 1inch in diameter or dimension. The surface shall conform to finish grade, less the thickness of sod, free of water-retaining

depressions, the soil friable and of uniformly firm texture.

3.2 INSPECTION

- A. Verify that any related preceding work has been completed.
- B. Do not start work until conditions are satisfactory.

3.3 SOD HANDLING AND INSTALLATION

- A. During delivery, prior to planting, and during the planting of sod areas, protect the sod panels from excessive drying and unnecessary exposure of the roots to the sun. Stack sod during construction and planting so it is not damaged by sweating or excessive heat and moisture.
- B. After completion of preparation as specified above, lay sod panels tightly together to make a solid sodded lawn area. On mounds and other slopes, the long dimension of the sod shall be laid perpendicular to the slope. Immediately following sod laying, roll the lawn areas with a lawn roller customarily used for such purposes, and then thoroughly water.
- C. Place sod at all areas where sod existed prior to construction, on slopes of 3 horizontal to 1 vertical (3:1) or greater, in areas where erosion of soils will occur, and as directed by the Engineer or Owner. On areas where the sod may slide, due to height and slope, the Engineer or Owner may direct that the sod be pegged, with pegs driven through the sod blocks into firm earth, at suitable intervals.

3.4 SOD MAINTENANCE

- A. The sod shall produce a dense, well-established growth. Repair and re-sod all eroded or bare spots until project acceptance. Repair to sodding shall be accomplished as in the original work.
- B. Perform sufficient watering to maintain adequate moisture for optimum development of the seeded and sodded areas, and no less than 1.5 inches of water per week for at least 2 weeks. Thereafter, apply water for a minimum of 60 days as needed until the sod takes root and starts to grow or until final acceptance, whichever is latest.

3.5 FERTILIZER RESTRICTIONS

- A. Consideration shall be given to City of North Port Code of Ordinances, Chapter 22 Article II, Section 22-57, Timing of Application, Fertilizer and Landscape Management. City of North Port Resolution Number

2018-R-26 which encourages a voluntary non-use of fertilizer year-round shall also be considered.

3.6 GUARANTEE

- A. Guarantee a live and vigorous stand of permanent grass at the time of acceptance of the work consisting of 80 percent minimum coverage for seeded grass areas with no bare spots greater than 5 square feet.

3.7 CLEANING

- A. Remove debris and excess materials from the project site.

END OF SECTION

SECTION 336040

MANHOLES, RINGS AND COVERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Requirements for providing sanitary sewer manholes and all other appurtenances for a complete installation. Provide precast reinforced concrete manholes conforming to ASTM C478 in accordance with the Plans and NPU Standard Details.
- B. See Related Work Specified in Other Division 33 Sections

1.2 REFERENCE

- A. Codes and standards referred to in this Section are:
1. ASTM C 76 - Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe.
 2. ASTM C 478 - Specification for Precast Reinforced Concrete Manhole Sections
 3. ASTM C 32 - Specification for Sewer and Manhole Brick (Made for Clay or Shale)
 4. ASTM C 443 - Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets [Metric]
 5. AASHTO - American Association of State Highway and Transportation Officials
 1. M306-10: Drainage, Sewer, Utility, and Related Castings
 - a. Manufacture
 - b. Proof Testing
 - c. Inspection
 - d. Certification
 - e. Marking
 2. Standard Specification for Highway Bridges
 6. ASTM G154 – Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
 7. ASTM C 1028 – Standard Test Method for Determining the Static Coefficient of Friction

8. ASTM D256 – Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
9. ASTM D790 – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

1.3 SUBMITTALS

- A. Shop Drawings: Submit shop drawings of sewer manholes as specified in Section 013000.
- B. Submit shop drawings for fabrication and installation of casting assemblies that are not included in the Plans or the NPU Standard Details. Include plans, elevations, sections and connection details. Show anchorage and accessory items. Include setting drawings for location and installation of castings and anchorage devices.
- C. Quality Control: Submit shop and field test reports of concrete samples tested in an approved laboratory.

1.4 DELIVERY, STORAGE AND HANDLING

- A. General: Take every precaution to prevent injury to the manhole sections during transportation and unloading. Unload manhole sections using skids, pipe hooks, rope slings, or suitable power equipment, if necessary, and always keep the sections under control. Do not allow the manhole sections to be dropped, dumped or dragged under any conditions. Follow applicable requirements specified in Division 1.
- B. Damaged Section: If any manhole section is damaged in the process of transportation or handling (see Section 2.3.C below), contact the NPU for visual inspection. If NPU deems it necessary to reject the manhole section, reject and immediately remove such sections from the site, and replace the damaged manhole sections at no increase in Contract Amount.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Composite Access Products (CAP One), or an NPU approved equal, are acceptable for the sanitary sewer manhole frames and covers.

2.2 MATERIALS

- A. Concrete, Steel Reinforcement and Aggregates: Provide reinforced

concrete, cementitious materials, aggregates and steel reinforcement conforming to the requirements of ASTM C 478, with 4,000 psi concrete, Grade 40 reinforcement bars, Type II cement, and a minimum wall thickness of eight (8") inches.

B. Steel reinforced polymer concrete manholes may be furnished and installed instead of the Type II cement manholes described above. If provided, steel reinforced polymer concrete manholes shall not require interior and exterior protection as described in part 3.1 F and 3.1 G. All steel reinforced polymer concrete structures shall be supplied by a qualified company with a minimum of five (5) years experience manufacturing polymer concrete. All steel reinforced polymer concrete structures shall be manufactured and installed in accordance with the applicable requirements of ASTM C76, C478, C443, D6783, C33, C267, A82, A165, A496, A497, A615, and A615M.

C. Manhole Rings and Covers:

1. Provide manhole rings and covers as shown on the Plans and NPU Standard Details. Manhole rings and covers shall be molded composite for application in wastewater collection systems and facilities. All composite moldings shall consist of a thermosetting resin matrix blended and/or combined with reinforcing fiber rovings, short fiber filaments, or equivalent nonmetallic reinforcing structure(s). The thermosetting resin matrix shall be a polyester, vinylester, or a blend of these. The moldings shall be true to pattern in form and dimension and free from cracks, pores, knit-lines, or other defects in locations affecting their strength and value for the service intended. The words SANITARY SEWER, as well as City of North Port shall be cast in all manhole covers except those owned by a private party. All manhole rings and covers shall be traffic bearing unless otherwise specified.
2. All rings and covers units shall be made from high strength nonmetallic fiber reinforced polymer/composite materials. The material shall be a resin thermoset matrix that can be reinforced with continuous filament engineered fabrics, fiber rovings, short fiber filaments, or equivalent nonmetallic reinforcing structure(s). Sealing gaskets shall be bonded to the frame continuously at the interface with the cover to reduce wear, shock, noise, and malodors.
3. Rings and covers intended for traffic service shall be capable of withstanding AASHTO M306: Proof Testing (includes items such as frames, covers etc.)
4. Fabricate rings and covers to conform to shapes, dimensions, and with wording or logos shown on the NPU Standard Details.

5. **MOLDING PROCESS:** Before the moldings are removed from the molding operation, they shall be thoroughly deflashed and cleaned at the parting lines, holes, notches and all exposed edges. If using a lock, or latch, these must be independent of the method used to open the cover to ensure the cover can be opened in the event of lock or latch failure. Covers and frames shall be compression molded under high pressures (>0.5 tons/sq. inch of x-y surface area) and high temperatures (>200 degrees F). Metal reinforcements or metal hinges molded within the composite shall not be permitted. Small non-stress bearing pieces of metal may be encapsulated or attached.
6. All rings and covers shall be molded and assembled in the United States in accordance with the requirements of AASHTO M306.
7. Covers shall be provided with a positive sealing mechanism by means of four (4) austenitic 316 stainless-steel one-half inch (1/2") nuts and bolts # 11 National Coarse Thread. Nuts shall be molded in or attached at pre-molded designated points of the frame and shall be Teflon Coated. For bolted manhole covers a thin film of an "Anti-Seize" lubricant, approved by the Engineer, or his/her designated representative shall be applied to all bolts. Bolts shall be threaded by hand prior to the use of wrenches. Other equivalent locking mechanisms must be approved by NPU.
8. Composite covers shall be detectable by metal detectors.
9. **MARKINGS:** Covers and Frames shall have the following molded into the substrate of the cover: Name (or abbreviation) of molder, country of origin (where transformed by molding process), molding date, indication that the material is non-metallic.
10. Composite frame and covers shall be Composite Access Products, L.P., McAllen, Texas or pre-approved equal as documented by NPU.

- D. **Preformed Joint Sealing Compound:** Provide preformed joint sealing compound for joining manhole sections.
- E. **Concrete Protective Liner:** Provide concrete protective liner approved by Engineer and NPU.
- F. **Pipeline Connections:** Provide neoprene boots with type 316 stainless steel clamps of a design approved by the Engineer, NPU, or designee for joining wastewater collection piping to manhole riser sections. Fill the unfilled portion of the connection with mortar or concrete to guarantee a watertight seal.
- G. **Doghouse Manholes:** Doghouse manholes over existing wastewater collection pipes are permitted. Provide a concrete base a minimum of eight (8") inches

thick, with proper reinforcing rods to prevent cracking. Pour concrete base upon a 12-inch base of gravel. Precast manhole rings may be set in the concrete over the existing pipe. Concrete should then be used to form both the bench and to seal the pipe entrances, both inside and especially outside. Once dry, remove the top of the pipe in the manhole.

- H. Standard Manholes: The standard manhole shall be a minimum of four (4') feet in depth measured from the base of the cover frame to the top of the concrete footing and shall be of the concentric cone type, as shown in the NPU Standard Details. Manholes less than four (4') in depth, must be approved by NPU in writing prior to installation and shall be classified as a "Shallow Manhole" as specified below.
- I. Shallow Manholes: The shallow manhole shall be four (4') feet or less in depth measured from the base of the cover frame to the top of the concrete footing and shall be of flat top construction, as shown in the NPU Standard Details.
- J. Manhole Inverts: Form manhole inverts from concrete having a minimum 28-day compressive strength of 2,500 psi, and as shown on the NPU Standard Details. Inverts for "straight-through" manholes may be formed by laying the pipe straight through the manhole, pouring the concrete invert, and then cutting out the top half of the pipe. Construct curved inverts of concrete, as shown in the NPU Standard Details, and form a smooth, even, half pipe section. Precast inverts may be used, however, no large "bowls" shall be permitted in the center of the manhole. To alleviate this problem, grout the invert to form a smooth, uniform invert as shown in the NPU Standard Details. Maintain a 0.1-foot drop across the manhole.
- K. Inflow Protectors: No inflow protectors shall be installed with composite manhole ring and covers. For other manhole ring and covers, and at the discretion of NPU, install an inflow protector manufactured from a high-quality 304 stainless steel with a consistent thickness of not less than 18-gage. The inflow protector shall have a deep-dish bowl design with no less than eight (8") inches in depth to allow easy and unobstructed removal of the manhole cover. The manhole inflow protector is to be manufactured with a one-piece rubber gasket installed at the factory for a tight, consistent fit. The rubber gasket is to be designed to securely wrap around the entire leading edge of the inflow protector at the point where it comes in contact with the manhole frame and cover. The wrap around rubber gasket is to be manufactured to a width of no less than 3/8 inches, consistent on top and bottom of the leading edge of the inflow protector. The gasket shall be no more than 3/32 inches thick. The insert removal handle shall be manufactured of a high-quality stainless steel for strength and durability. The handle is installed in such a way that it does not interfere with the installation or removal of the manhole lid. The insert handle will be manufactured to withstand a minimum pull force of 500 pounds before it fails or separates from the insert. The inscription "PROPERTY OF CITY OF NORTH PORT UTILITIES" shall be etched, at the base of the handle frame, to provide a long-lasting identification marker for the

City.

- L. Chimney Seals: Install a minimum of two (2) precast concrete or HDPE riser rings with a chimney seal between manhole and frame.

2.3 SOURCE QUALITY CONTROL

- A. If requested by NPU, Engineer, or designee, at least three cylinders shall be taken each day that manhole sections are cast, with batch samples to be designated by the laboratory representative. At least one set of cylinders will be taken from each nine (9) cubic yards of concrete used in manhole section construction. These samples will be tested for strength. If the samples fail to meet specified minimum concrete strength requirements, all manhole sections manufactured from the concrete from which the cylinders were made will be rejected.
- B. NPU, Engineer, or designee reserves the right to core manholes either at the job site or point of delivery to validate strength of concrete and placement of steel. If cores fail to demonstrate the required strength or indicate incorrect placement of reinforcing steel, all sections not previously tested will be considered rejected until sufficient additional cores are tested, at no increase in Contract Amount, to substantiate conformance to these requirements.
- C. Components of the manhole shall be free of fractures, cracks, and undue roughness. Concrete shall be free of defects, which indicate improper mixing or placing, and surface defects such as honeycomb or spalling. Cracks or broken ends due to improper handling will not be acceptable. No lift holes will be allowed except in rise and corbel sections. These holes shall not penetrate the wall and shall be filled with non-shrink grout after installation.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Lifting Holes: Grout lifting holes through the structure with non-shrink grout.
- B. Precast Base: Provide a precast base of not less than eight (8") inches in thickness with a minimum dimension across the precast base of 72 inches poured monolithically with the bottom section of the manhole walls, reinforced, with a minimum 28-day compressive strength of 4,000 psi.
- C. Joining Manhole Sections: Join precast sections using plastic joint sealing compound and trimmed prior to grouting. The first construction joint shall be not less than two (2') feet above the base slab. Use tongue and groove joints suitable for the flexible gasket. Use non-shrink grout inside and outside for sealing between manhole precast sections. Grout shall be of a type acceptable to the Engineer, NPU, or designee and designed for use in water. Seal all openings

and joints watertight.

- D. Top Termination: Terminate manhole tops at such elevations as will permit laying up grade rings under the manhole frame to make allowances for future street grade adjustments.
- E. Drop Connections: Manufacture drop connections, where required on precast manholes, with the manhole elements at the casting yard. Drop manholes shall be constructed per the NPU Standard Details.
- F. Internal Protection:
 - 1. Provide internal protection for all manholes. I.E.T Systems, Engineered Coating Solutions, Green Monster Liner (GML), and Raven 405 are approved by NPU. Note, internal protection is not required for steel reinforced polymer concrete manholes as described in 2.2 B. above.
 - 2. Install the coating systems per manufacturer's recommendation and completely protect the structure from corrosion. The liner or coating systems must extend and seal onto manhole ring, seal onto and around pipe openings, and any other protrusions, and completely cover the bench and flow invert. Provide a ten (10)-year unlimited warranty on all workmanship and products. The work includes the surface preparation and application of the coating or liner system and shall protect the structure for at least five (5) years from all leaks and from failure due to corrosion from exposure to corrosive gases such as hydrogen sulfide. Repair internal coating of existing manholes cored during tie-in of new wastewater collection system piping by applying approved coating material as listed above in accordance with the manufacturer's recommendations. If existing manhole has an internal coating other than that listed above, sandblast the interior of the existing manhole to remove existing coating(s) and expose the concrete substrate and apply an approved coating in accordance with the manufacturer's recommendations.
- G. Coal Tar Epoxy: Coat all manhole, wet well, and valve vault exteriors with two (2) coats of coal tar epoxy to a minimum thickness of eight (8) dry mils (not required for steel reinforced polymer concrete manholes as described in 2.2 B. above).
- H. Rings and Covers: Install composite frames and covers according to approved NPU Standard Details, shop drawings, and written instructions from the manufacturer. Set units accurately at required locations to proper alignment and elevation. Keep units plumb, level, true, and free of trash. Measure location accurately from established lines and grades. Brace or anchor frames temporarily in form work until permanently set.

END OF SECTION

SECTION 336060

TELEVISION INSPECTION

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. After rehabilitation, each designated section shall be visually inspected during sealing operations by means of a closed-circuit television. The inspection will be done one section at a time and the section being inspected will be suitably isolated from the remainder of the sewer line as required.
- B. Video recordings shall be made of the television inspections and both copies of the recordings and printed inspection logs shall be supplied to the Owner and Engineer.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. The television camera used for the inspection shall be one specifically designed and constructed for such inspection. Lighting for the camera shall be suitable to allow a clear picture for the entire periphery of the pipe. The camera shall be operative in 100 percent relative humidity conditions. The camera, television monitor and other components of the video system shall be capable of producing a minimum 500-line resolution video picture. Picture quality and definition shall be to the satisfaction of the Owner and Engineer. The lighting system shall minimize reflective glare.

PART 3 – EXECUTION

3.1 PERFORMANCE

- A. The camera shall be moved through the line against the flow, at a uniform rate, stopping when necessary to insure proper documentation of the sewer's condition but in no case will the television camera be pulled at a speed greater than 30 fpm. Manual winches, power winches, TV cable and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line. If, during the inspection operation the television camera will not pass through the entire manhole section, the Contractor shall re-set up his/her equipment

in a manner so that the inspection can be performed from the opposite manhole. If, again, the camera fails to pass through the entire section, the Contractor shall remove the obstruction by excavation and replacement of that section of pipe as specified herein.

- B. Whenever non-remote powered and controlled winches are used to pull the television camera through the line, telephones, radios, or other suitable means of communication shall be set up between the two manholes of the section being inspected to ensure that good communications exist between members of the crew.
- C. The accuracy of the measurements cannot be stressed too strongly. Measurement for location of defects shall be above ground by means of a meter device. Marking on cable, or the like, which would require interpolation for depth of manhole, will not be allowed. Measurement meters will be accurate to two tenths of a foot over the length of the section being inspected. Accuracy of the measurement meters shall be checked daily by use of a walking meter, roll-a-tape or other suitable device.
- D. Documentation of the television results shall be as follows:
 - 1. Television Inspection Logs
 - a. Printed location records shall be kept by the Contractor and will clearly show the location, in relation to adjacent manholes, of each source of infiltration discovered. In addition, other data of significance including the locations of building and house service connections, along with an estimation of infiltration from such services, joints, unusual conditions, roots, storm sewer connections, collapsed sections, presence of scale and corrosion and other discernible features will be recorded and a copy of such records will be supplied to both the Owner and the Engineer.
 - 2. Video recordings of the data on the television monitor shall be made by the Contractor copies of which, in digital format, shall be provided to the Owner.

END OF SECTION

SECTION 336065

GRAVITY SEWER SYSTEM SMOKE TESTING

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials, equipment and incidentals required and smoke test those sewers designated and submit all corresponding field data forms identifying potential sources of inflow discovered as a result of smoke testing.
- B. Undertake a physical survey concurrent with smoke testing for the purpose of identifying sources of infiltration/inflow (I/I).

1.2 SUBMITTALS

A. SUBMIT THE FOLLOWING:

1. Schedule of smoke testing work as well as notifying the Engineer, City, and City's Fire Chief of the time and location of all smoke testing prior to commencing.
2. Manufacturer's data sheets on the smoke candles and the blower to be used on the project.
3. Proposed field data gathering and observation forms prior to the start of the work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. The "Smoke Candles" used in smoke testing shall be acceptable for both indoor and outdoor use, shall be non-contaminating and shall leave no residue to stain clothing or the interior of buildings.

2.2 EQUIPMENT

- A. The air blower used to force smoke the into sewer pipe shall have a minimum capacity rating of 1,500 cfm and a maximum capacity rating not to exceed 3,750 cfm.
- B. A metal basket shall be used to hold and retrieve the smoke candles.

PART 3 – EXECUTION

3.1 TESTING

- A. Sewer sections shall be smoke tested by setting the blower at the up-stream manhole and blowing the smoke to the down-stream manhole.
- B. Isolate the sewer line section to be tested by installing sewer plugs to shut off the flow completely in the sewer system up-stream of the sewer section to be tested.
- C. Install an inflatable sewer plug in the down-stream sewer section and inflate the down-stream sewer plug after a heavy concentration of smoke arrives.
- D. Testing Locations
 - 1. Residential Areas
 - a. Up to three reaches not exceeding a total of 500 linear feet of sewer line may be tested at one time based on the use of a blower with a maximum capacity rating of 1,500 cfm. Up to five reaches not exceeding a total of 1,200 linear feet of sewer line may be tested at one time based on the use of a blower with a maximum capacity rating of 3,750 cfm.
 - 2. Industrial-Apartment Complex Areas
 - a. Up to two reaches not exceeding a total of 400 linear feet of sewer line may be tested at one time based on the use of a blower with a maximum capacity rating of 1,500 cfm. Up to three reaches not exceeding a total of 900 linear feet of sewer line may be tested at one time based on the use of a blower with a maximum capacity rating of 3,750 cfm.
- E. Candles
 - 1. In Residential Areas a minimum of one three (3) minute smoke candle shall be simultaneously used for each reach of sewer in the sewer section tested.
 - 2. In Industrial-Apartment Complex Areas a minimum of two three (3) minute smoke candles shall be simultaneously used for the first reach of sewer, increased by one three (3) minute smoke candle for each additional reach of sewer in the sewer section tested.

- F. The metal basket used to hold and retrieve smoke candles shall be placed as close as possible to the sewer pipe invert during testing.
- G. Testing shall not be done during rainy weather and testing shall be closely monitored on windy days. If smoke coming out of the ground is blown away so quickly as to escape accurate detection, testing will cease until such time that conditions permit.
- H. Be solely responsible for the operations and for preventing sewer backups into area homes and causing sewage overflow.
- I. Adequately notify residents/occupants, fire department and other affected by smoke testing as to time and place of the smoke testing.
- J. Be solely responsible for the safety of their crews.
- K. The Engineer, City, or his/her project representative reserves the right to observe field crews and evaluate effectiveness of identifying returns.

3.2 RECORDING OF FIELD OBSERVATIONS

- A. Document observations regarding each leak identified on a smoke sketch log. The smoke sketch shall include manhole numbers, direction of sewer flow, direction of smoke, manhole condition, sewer length, date, mini-system number, test number per date, crew, weather condition, wind condition, smoke intensity, infiltration probability function, address and other comments.
- B. Photograph using digital camera. Each photograph shall show the smoke escaping, at the source, in the foreground with the reference structure in the background. The photographs shall be attached to the field data gathering and observation form and provided electronically.
- C. The address or house number shall be recorded under the sketch. A description of the leak, possible cause and recommended suggested rehabilitation method shall be recorded on the field data gathering and observation form.
- D. The sketch shall provide a north arrow orientation. A sketch of the building and/or structure shall be drawn. A minimum of two tie measurements from permanent reference points to the smoke leak shall be shown, or identify the location of the smoke leak with GPS coordinates.
- E. Document as part of the physical survey any aspect defect contributing to infiltration/inflow for the City to undertake further evaluation. The physical survey shall identify such suspected I/I sources as:

1. Leaking manhole bottoms
2. Leaking manhole riser
3. Manhole ponding area
4. Manhole frame not attached to manhole structure
5. Exposed brickwork not grouted
6. Leaking pipes at manhole

END OF SECTION

SECTION 336070

SEWER LINE AND MANHOLE CLEANING

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials, equipment and incidentals required to clean sewer pipe and fittings installed and/or rehabilitated, complete as shown on the Drawings and/or as specified herein.
- B. Cleaning shall include proper high pressure water jetting, rodding, bucketing, brushing and flushing of sewers, pipeline rehabilitation or replacement, point repairs, manhole preparation, and testing operations. City staff will perform inspections by closed circuit television (CCTV)
- C. Goal of cleaning is to remove debris, roots, intruding services, deposits, and other blockages to a minimum of 95 percent open. Contractor shall perform sewer cleaning work to an acceptable level as necessary to perform a thorough television inspection of sewer. Note that the television inspection will be performed by City staff. If pipe condition is such that cleaning may cause a potential collapse, then pipe shall be televised without attempting to clean it to 95 or 98 percent condition, pending approval by the Engineer and City.

1.2 RELATED WORK

- A. Gravity Sewer System Smoke Testing in Section 336065
- B. Manhole Rehabilitation in Section 336080

1.3 SUBMITTALS

- A. Submit a safety plan prior to performing any on-site work that includes the following as a minimum:
 - 1. Confined Space Entry.
 - 2. Personal Protective Equipment.
- B. Closeout Documents: Submit one complete set of documentation regarding inspections and work performed. Based on work scope, submit written reports, photographs taken, and USB flash drives that

incorporate color video recordings.

1.4 QUALITY ASSURANCE

Contractor shall have a minimum of five years' experience in sewer line and underground structure cleaning. Submit a list of at least three customers who have had similar work completed. Furnish trained and qualified technicians with proper experience operating equipment that is being used on this project.

1.5 SYSTEM DESCRIPTION

- A. This project will provide construction services in accordance with the Inflow and Infiltration (I/I) rehabilitation of sanitary sewers and manholes.

1.6 PROJECT/SITE REQUIREMENTS

- A. Recording of Field Observations.
- B. Traffic Control: Coordinate traffic control required to perform work of this Section with the City.

1.7 DEFINITIONS

- A. Light Cleaning: Small amounts of debris existing within sewer line and where sewer reaches do not require heavy cleaning, as defined below, and that produce little or no debris.
- B. Heavy Cleaning: Large deposits of debris or heavy root growth existing within sewer line and where sewer reaches require debris removal of depths up to 25 percent of pipe height.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. Hydraulic Sewer Cleaning Equipment:
 - 1. Equipment used shall be of a movable dam type and be constructed so that a portion of the dam may be collapsed at any time during cleaning operation to protect against flooding of sewer. Movable dam shall be same diameter as pipe being cleaned and shall provide flexible scraper around outer periphery to ensure total removal of grease. If sewer cleaning balls or other such equipment which cannot be collapsed instantly are used, take special precautions against flooding of sewers and public or private property.

B. High Velocity Jet (Hydrocleaning) Equipment:

1. Have a minimum of 500 feet of high pressure hose.
2. Have a selection of two or more velocity nozzles that are capable of producing a scouring action from 15 to 45 degrees in all size lines to be cleaned. Also include a high velocity gun for washing and scouring manhole walls and floor.
3. Be capable of producing a minimum of 80 gallons per minute flows from a fine spray to a long distance solid stream and delivering up to 1,000 psi. Be able to carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel. Locate controls so equipment can be operated above ground. Select flowrates and pressures as required for each size of sewer, type of debris, and amount of debris, and as recommended by nozzle manufacturers.
4. Have a water tank, auxiliary engines and pumps, and a hydraulically driven hose reel.
5. Have root cutting blades that are hydraulically spun.

C. Mechanical Cleaning Equipment:

1. Bucket machines shall be in pairs and with sufficient power to perform the work in an efficient manner. Machines shall be belt operated or have an overload device. Machines with direct drive that could cause damage to the pipe shall not be acceptable.
2. Power rodding machines shall be either sectional or continuous type capable of holding a minimum of 750 feet of rod. Rod shall be specifically treated steel. To ensure safe operation, machine shall have a fully enclosed body and an automatic safety release clutch or relief valve.

PART 3 – EXECUTION

3.1 GENERAL

- A. Cleaning Precautions: During sewer cleaning operations, satisfactory precautions shall be taken in use of cleaning equipment. When hydraulically propelled cleaning tools (which depend upon water pressure to provide their cleaning force) or tools which retard flow in sewer line are used, precautions shall be taken to ensure that water pressure created does not damage or cause flooding of public or private property being served by sewer. When possible, flow of sewage in sewer shall be utilized to provide necessary pressure for hydraulic cleaning devices. When additional water from fire hydrants is necessary

to avoid delay in normal work procedures, water shall be conserved and not used unnecessarily.

- B. No sewer cleaning shall take place in a particular sewer segment until upstream pipe segments have been cleaned. If cleaning is done in a downstream pipe segment to facilitate overall cleaning operations, segment shall be re-cleaned at no additional cost to City, after pipes upstream of that segment have been cleaned.
- C. Sewer line walls shall be cleaned adequately to provide for proper operation of joint testing and sealing equipment or internal inspection to discern structural defects, misalignment and infiltration/inflow sources. Cleaning shall be performed immediately prior to joint testing and sealing and internal inspection to preclude build-up of debris from infiltration/inflow sources and discharges from upstream pipeline sections.
- D. Designated sewer manhole sections shall be cleaned using hydraulically propelled, high velocity jet, or mechanically powered equipment. Selection of equipment used shall be based on conditions of lines at the time the work commences. Equipment and methods selected shall be satisfactory to the City. If cleaning of an entire section cannot be successfully performed from one manhole, equipment shall be set up on other manhole and cleaning again attempted. If, again, successful cleaning cannot be performed or equipment fails to traverse entire manhole section, it will be assumed that a major blockage exists and cleaning effort shall be repeated with other types of equipment. Immediately report any blockages to the Engineer or City.
- E. Water for sewer cleaning shall be purchased by Contractor and obtained at locations in accordance with utility owner. If water is obtained from a potable supply, provide appropriate backflow prevention devices as required by authority having jurisdiction to protect potable system from cross connections and contamination. Contractor shall be solely responsible for preventing cross contamination of any public or private water systems used for this purpose.

3.2 PREPARATION

- A. Selection of cleaning equipment shall be based on conditions of manhole and sewer lines at the time the work commences. Equipment and methods selected shall be acceptable to Engineer. Acceptance of proposed method of cleaning does not relieve Contractor of its responsibility to adequately remove dirt, grease, rocks, sand, and other materials and obstructions from sewer lines and manholes to allow performance of other work.

- B. Take satisfactory precautions to protect sewer lines from damage that might be caused by improper use of cleaning equipment. Whenever using hydraulically propelled cleaning tools that depend upon water pressure to provide their cleaning force, or any tools that retard flow of water in sewer line, take precautions to ensure that water does not cause damage or flooding to public or private property.
- C. No fire hydrant shall be obstructed in case of a fire in area served by hydrant.
- D. Remove water meters, piping, and related equipment from fire hydrants at end of each work day.

3.3 PERFORMANCE

- A. Selection of cleaning equipment shall be based on conditions of manholes and sewer lines at the time the work commences based on pre-construction CCTV inspection to be conducted by the City.
- B. Contractor shall provide appropriate screening to stop passing of materials into downstream sewers. Sludge, dirt, sand, rocks, grease, and other solid or semisolid residue, debris, and material resulting from cleaning operations shall be removed at downstream manhole of section of sewer being cleaned. Passing material from manhole section to manhole section which could cause line stoppages, accumulations of sand in wet wells, or damage to pumping equipment shall not be permitted.
- C. Debris, residue, and other materials resulting from cleaning operations shall become property of the Contractor and shall be removed from site at end of each workday and shall be disposed of in an approved and lawful manner. Under no circumstances will accumulation of debris, residue, and other matter be permitted on site beyond stated time, unless prior written authorization is given for storage in totally enclosed containers.
- D. Light Cleaning: Use balls, scooters, and three (3) passes of high pressure water jetting equipment, brushes and swabs. Costs related to cleaning of such sewers shall be included in Contractor's unit prices for Cleaning.
- E. Heavy cleaning: Use bucket machines, scrapers, and augers with cleaning which requires more than three (3) passes with hydraulic cleaning equipment to achieve acceptable results. Heavy cleaning will be conducted only upon approval and direction of Engineer or the City. Refer to Section 012663 Change Order Procedures as applicable to a particular project. Costs related to

cleaning of such sewers shall be included in Contractor's unit prices for Heavy Cleaning. Compensation for heavy cleaning of a particular line will only be paid if:

1. Heavy cleaning was authorized by Engineer or the City prior to Contractor performance of the work.
2. Contractor proves that both significant time and effort was necessary to clean the line, i.e. time required to clean and inspect the line must have been at least twice the average time required to clean and inspect other sewers of comparable length and diameter in project area.
3. Adequate video proof of blockage, debris, grit or grease build-up, or other condition is provided by Contractor. Heavy Cleaning will be paid for on a lineal foot basis only for length required to be cleaned, i.e., from downstream manhole to approximate location of heavy cleaning. This may or may not include entire pipe section, unless otherwise approved by Engineer or City.

F. Obtain video proof of heavy cleaning by acquiring a 'before' video of accessible portions of obstructed reach; submit to Engineer and the City along with completed inspection.

1. A submerged camera does not justify a need for heavy cleaning; proof that submergence was due to a blockage or heavy debris and not a sag in the line will be required.

G. Pipes that contain roots or debris depths greater than 25 percent of pipe height may be paid on a time and material basis, upon approval by the Engineer or City. Engineer or City may determine any individual pipe be cleaned on a time and material basis.

H. Flushing of sanitary sewers to facilitate cleaning activities without the capture of solids and debris is expressly prohibited.

I. Retrieval of equipment lodged in pipes or a wet well is Contractor's responsibility and shall be performed at Contractor's expense.

NOTE: Bid item should be included for hourly rate for the excessive heavy cleaning described in Item G above.

3.4 FIELD QUALITY CONTROL

A. Acceptance of sewer line cleaning shall be contingent on satisfactory completion of the City's performed television inspection. If television inspection shows cleaning to be unsatisfactory, sewer line shall be re-cleaned and re-inspected until cleaning is shown to be satisfactory.

- B. If internal joint testing and sealing is to follow cleaning, give particular attention to adequacy of cleaning to ensure that proper seating of sealing packer can be achieved.
- C. Inspection of cleaning operations will be made on a daily basis by the Engineer or City.

3.5 CLEANING

- A. Upon cleaning of underground sewer lines or structures, removal remove debris from finish grade and clean work areas so conditions at conclusion of the work are equal to or better than areas prior to work of this Section.

END OF SECTION

SECTION 336080

MANHOLE REHABILITATION

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials, equipment, and incidentals required to rehabilitate manholes as noted on the plans and as specified herein.
- B. Where indicated on the plans or as directed by the Engineer or NPU work may require, patching manhole exterior; stopping infiltration with chemical grout; rebuilding invert and benching; resetting or replacing manhole ring and cover assemblies; installing chimney seals, adjusting elevation of manhole frame and cover.
- C. Eliminate active infiltration observed in the frame seal, chimney (corbel for brick manholes), cone, wall, bench, invert, holes, or pipe connections prior to applying the manhole lining system.
- D. Reinstall existing manhole rings and covers removed to allow the completion of the rehabilitation work, unless otherwise specified in the Summary of Work or elsewhere in the Contract Documents. Restore the site to its pre-maintenance condition.
- E. The Contractor shall provide a written report including photographs for each completed manhole. This report should include the general masonry condition after preparation, the amount of infiltration, how infiltration was rectified, and what type and how much product was used.
- F. Maintain sanitary sewer flows as specified in Section 331030.

1.2 RELATED WORK

- A. Contract Drawings show the manholes included in the work and indicate the work required for each manhole.
- B. Cured-in-Place Pipe Liner is included in Section 336084.
- C. Existing Sanitary Sewers are included in Section 33130.
- D. Trenching, Backfilling and Compaction is included in Section 311020.

- E. Pavement Repair and Restoration is included in Section 321010.
- F. Monolithic Manhole Lining Systems is included in Section 336082.
- G. Sewer Line and Manhole Cleaning is included in Section 336070.
- J. Manholes, Rings and Covers are included in Section 336040.

1.3 SUBMITTALS

- A. Staging Area Plan: Provide plan at scale of 1"= 50'. Identify the staging area for deployment of manhole repair equipment for each work area.
- B. Submit to the Engineer and NPU in accordance with Section 013000, shop drawings and product data for all manhole rehabilitation materials specified in this Section for each manhole to be rehabilitated.
 - 1. Information on the chemical grout and additives, cementitious compound, waterproofing, and corrosion control materials that will be used, the installation method, and equipment. For the materials that will be used, identify and furnish references for successful use of the materials in similar applications.
 - 2. Method for sealing pipes at manholes.
- C. The Contractor shall submit a report described in section 1.1 Scope of this specification.

1.4 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM C 109 - Standard Testing Methods for Compressive Strength of Hydraulic Cement Mortars (Using 2-in Cube Specimens).
 - 2. ASTM C 150 - Standard Specification for Portland Cement.
 - 3. ASTM C 267 - Standard Test Methods for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
 - 4. ASTM C 293 - Test Method for Flexural Strength of Concrete.
 - 5. ASTM C 309 - Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete.
 - 6. ASTM C 496 - Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens.

7. ASTM C 579B - Test Method for Compressive Strength of Chemical-Resistant Mortars, Grouts and Monolithic Surfacing.
8. ASTM C 596 - Test Method for Drying Shrinkage of Mortar Containing Portland Cement.
9. ASTM C 666 - Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing.
10. ASTM C 1244 - Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test Prior to Backfill.
11. ASTM F 2414 - Standard Practice for Rehabilitation of Sewers Using Chemical Grouting.

B. Occupational Safety and Health Administration (OSHA).

C. The revision of the above standards that is in effect at the time of bid opening will apply.

1.5 QUALITY ASSURANCE

A. The Contractor to perform the manhole rehabilitation and manhole lining shall be fully qualified, experienced, and equipped to complete the work in a timely and satisfactory manner. Submit the following information to the Engineer and NPU for review and approval before any work is performed.

1. Have a minimum of five (5) years' experience in performing this type of specialized work.
2. Have successfully installed the proposed lining system in a minimum of 500 manholes.
3. Name of the manufacturer and supplier for this work and previous work performed. The Contractor shall be certified by the manufacturer to install the monolithic lining system.
4. A list of all municipal installations performed by the manufacturer and Contractor over the past five (5) years along with the contact name, telephone number, and brief description of work performed.
5. Be capable of providing crews as needed to complete this work without undue delay.
6. The City reserves the right to disapprove the use of the Contractor based on the submitted qualifications.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Care shall be taken in shipping, handling and placing to avoid damaging the chemical grouts, cementitious materials, and other manhole rehabilitation products. Extra care may be necessary during cold weather construction. Any lining product or material damaged in shipment shall be replaced as directed by the Engineer or NPU.
- B. Any materials showing deterioration, or which has been exposed to any other adverse storage condition that may have caused damage, even though no such damage can be seen, shall be marked as rejected and removed at once from the work.
- C. While stored, the materials shall be adequately packaged and protected. The materials shall be stored in a manner as recommended by the manufacturer.

1.7 WARRANTY

- A. All manhole rehabilitation work shall be warranted by the Contractor for a period of two (2) years from the date of substantial completion. During this period, all defects in the lining shall be repaired in a manner satisfactory to the Engineer or NPU, or the lining shall be reapplied at no cost to the City. At 21 months following substantial completion of the manhole rehabilitation work, the City or Engineer shall inspect this work to ensure proper performance. If any deficiencies are found during these inspections, the Contractor shall repair them at no additional cost to the City.

PART 2 - PRODUCTS

2.1 MATERIALS TO STOP ACTIVE LEAKS

- A. To stop active leaks in the manhole, use any of the following materials and procedures to stop the active leaks prior to lining.
 - 1. Premixed Fast-Setting, Volume-Stable Waterproof Cement Plug: Hydraulic cement, graded silica aggregates, special plasticizing and accelerating agents, containing chlorides, gypsums, plasters, iron particles, aluminum powder or gas-forming agents, or promote the corrosion of steel it may come in contact with. The cement plug shall comply with the following minimum requirements:

Minimum Requirements		
Compressive Strength	ASTM C 109	>1000 psi, 1hr. >2500 psi, 24 hrs.

Sulfate Resistance	ASTM C 267	No weight loss after 15 cycles @ 2000 ppm
Freeze/Thaw	ASTM C 666 "Method A"	100 cycles
Pull Out Strength	ASTM C 234	14,000 lbs.
Set Time		<5.0 minutes

2. Chemical Grout: Repair work shall be in accordance with ASTM F 2414-04, and manufacturer's recommended installation methods. Use in accordance with the manufacturer's recommendations for the specific application.

- a. Drilling and injection method shall use a hydrophilic polyurethane chemical grout manufactured by Avanti or equal unless otherwise approved by the Engineer or NPU.
- b. Exterior chemical curtain grouting method shall use a hydrophobic polyurethane chemical grout manufactured by Avanti or equal unless otherwise approved by the Engineer or NPU.
- c. Expanded Gasket Procedure shall use Oil Free Oakum with hydrophilic polyurethane chemical grout manufactured by Avanti or equal used for sealing larger cracks and manhole joints, unless otherwise approved by the Engineer or NPU.

2.2 PATCHING, REPOINTING, FILLING, REPAIRING NO-LEAKING HOLES, CRACKS AND SPALLS IN THE CONCRETE AND MASONRY MANHOLES

A. Quick-Setting Cementitious Patching material shall comply with the following minimum requirements:

Physical Properties		
Compressive Strength	ASTM C 109	>1800 psi, 1 hr. >2600 psi, 24hr. >3000 psi, 28 days
Bond	ASTM C 882	>1600 psi, 28 days
Applied Density		105 lbs pcf ± 5 lbs
Shrinkage	ASTM C 596	0% at 90% R.H.
Placement Time		5 to 10 minutes
Set Time		15 to 30 minutes

B. The water used to mix product shall be clean and potable. No material (other than water) shall be used with or added to the patching product

without prior approval or recommendation from manufacturer.

2.3 COATINGS FOR ALL INVERTS

- A. A quick-setting material that complies with the following minimum requirements:

Physical Properties		
Compressive Strength	ASTM C 109	>1800 psi, 1 hr. >2600 psi, 24hr. >3000 psi, 28 days
Bond	ASTM C 882	>1600 psi, 28 days
Applied Density		105 lbs pcf $\pm$ 5 lbs
Shrinkage	ASTM C 596	0% at 90% R.H.
Placement Time		5 to 10 minutes
Set Time		15 to 30 minutes

- B. Water used to mix product shall be clean and potable. No material (other than water) shall be used with or added to the patching product without prior approval or recommendation from manufacturer.

2.4 INTERIOR FLEXIBLE CHIMNEY SEALS

- A. Provide a flexible seal to provide corrosion protection and to prevent infiltration through the interior of the manhole frame and chimney area of the manhole.
- B. Provide materials for interior flexible chimney seal to prevent leakage of water into the manhole through the frame joint area and the area above the manhole cone including all extensions to the chimney area. The seal shall remain flexible allowing for repeated vertical or horizontal movements of the frame due to ground movement or the thermal movement of pavement. The final liner material shall be made no less than 170 mils of corrosion resistant flexible urethane resin coating to be applied to the inside wall of the entire chimney area as described above. Mil thickness may vary depending on the local climate. The product shall have a minimum elongation of 800% and a Durometer hardness of 75. Final liner shall have a minimum tensile and adhesion strengths of 1150 psi and 175 lb. l/in. respectively. The manhole sealant shall conform to the physical requirements of ASTM D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension. Sealant shall equal or exceed "Flex-Seal" as manufactured by Sealing Systems, Inc., Loretto, MN.

2.5 MANHOLE RING AND COVERS

- A. Refer to the Summary of Work, Contract Drawings and Technical Specification Section 336040 Manholes, Rings and Covers for manhole ring and cover requirements.

PART 3 – EXECUTION

3.1 GENERAL

- A. Each manhole to be rehabilitated shall be thoroughly cleaned and then inspected for loose or missing bricks, loose mortar, or holes. Remove any protrusions or obstructions into the manhole. Observed leaks shall be eliminated prior to applying the manhole lining system.
- B. Damage incurred to the manhole or pipe segments due to methods and equipment employed by the Contractor is the responsibility of the Contractor. Damage to public and private property from sewer surcharging that results from material or equipment left in the manhole or sewer or from any flow blockage is the responsibility of the Contractor. The cost to repair the manhole or pipe segments and expenses incurred by the City as a result of the damage shall be the responsibility of the Contractor.

3.2 SURFACE PREPARATION

- A. Pre-Rehabilitation Surface Preparation: Areas to be repaired which requires bonding of new cementitious, epoxy, chemical or waterproofing material to existing cement or masonry shall be prepared as follows.
 - 1. Clean the area with high velocity water cleaning equipment to remove all foreign matter, oil, grease, wax, and dirt, including removal of bitumastic coatings. Pressure shall not exceed that which may cause any permanent damage to the existing manhole walls or other parts of the structure.
 - 2. Foreign material remaining after high velocity water blasting shall be removed from the manhole surface using an acid wash. The acid wash shall be muriatic acid (hydrochloric acid) at a ratio of 1-part acid (HCl) to ten (10) parts of water. The mixing, application and removal of the acid solution shall be in accordance with the manufacturer's recommendations. The acid solution shall remain on the manhole surface until all foreign material have been removed and completely washed off with water.

3. Chip or chisel away all loose or defective material from the areas to be repaired. Furnish a firm mechanical key by undercutting whenever possible.
4. Allow interior surfaces of the manhole to dry before applying epoxy manhole lining systems.
5. Large voids including holes left by the manhole rung removal shall be filled with quick setting patching mix.
6. Remove protruding rubber gaskets between wall joints.

B. Sewer Line Protection: Place covers over the invert to prevent material from entering the sewer lines.

C. Drop Connections: Remove any interior drop connections anchored to manhole walls prior to installing the lining system. After installation and proper curing of the liner, reinstall interior drop connections to their original condition prior to removal. If the existing drop connection is already damaged and cannot be reused, Contractor shall request from the Engineer or NPU the best course of action.

D. Conduct a visual inspection of each manhole after it is cleaned. All active, hydrostatic infiltration leaks shall be plugged or sealed with an appropriate grout compatible with the lining. Remove all loose mortar and rubble of existing chimney (corbelling), cone, walls, benches, and inverts. Prepare manhole to receive cementitious lining as necessary by reshaping and repairing benches, inverts, cone, walls, and corbelling where required. All interior surfaces shall be prepared as recommended by the lining manufacturer. Minimum requirements are as listed below:

1. Repair cracks and other voids and fill with suitable non-shrinking cements, sealants, or grouts, including all voids between the existing sewer pipes and manhole walls. Patches shall be smooth and even with the manhole wall.
2. Suitably prepare surfaces for required bonding of lining as recommended by the manufacturer.

3.3 SEALING OF LEAKS IN INVERTS, BENCHES, WALLS, CONE, AND CORBELLING

A. Premixed Fast-Setting, Volume-Stable Waterproof Cement Plug: Seal unsealed lifting holes and voids larger than one-half ($\frac{1}{2}$ ") inch in thickness with a waterproof, quick setting mortar. Place waterproof mortar according to manufacturer's instructions.

B. Manhole Sealing by Chemical Grout Application: Chemical grouting shall include the following:

1. Transporting, delivering, and storing the chemical grout shall be according to the manufacturer's published directions and requirements.
2. Manhole Preparation: Repair the manhole frame and rings, and complete structural repairs before grouting the manhole. Cut roots and trim roots before grouting the manhole. Remove cracked or deteriorated material from the areas to be grouted.
3. Chemical Grout Formulation: Mix each batch of chemical grout according to the manufacturer's published directions and requirements.
4. Sealing Active Leaks: Use the Expanded Gasket Procedure, drilling and injection procedure and/or chemical curtain grouting to stop active leaks.
 - a. Expanded Gasket Procedure (EGP): Perform per ASTM F 2414-04, and the chemical grout manufacturer's recommended installation methods. This is performed by soaking dry oil free oakum with hydrophilic polyurethane chemical grout. The resulting oakum/resin plug shall be forced into the opening until it sets. Perform the EGP to:
 - 1) Control flowing water in larger cracks, joints, or pipe to manhole boots.
 - 2) Seal drop or lateral connections, slip line terminal seals, and open joints in RCP manholes.
 - 3) Seal between the corbel and manhole rings.
 - 4) Seal between the manhole rings and manhole.
5. Drilling and Injection Procedure: Perform per ASTM F 2414-04 (2009 or latest edition) and the chemical grout manufacturer's recommended installation methods to seal the manhole with chemical grout. Drill injection holes through the manhole at locations recommended by the manufacturer. Inject the chemical grout through the holes under pressure. Injection pressure shall not cause damage to the manhole structure or surrounding surface features. Inject chemical grout through the lowest holes first. Repeat the procedure until the manhole is externally sealed. Grout travel shall be verified by observation of grout to defects or adjacent injection holes. Drill additional injection holes as necessary to ensure grout travel. Do not inject grout from the ground surface. After chemical grout injection is complete, clean injection holes

with a drill and patch with a waterproof, quick setting mortar for brick and concrete manholes. Perform the drilling and injection procedure to control flowing water in cracks.

6. Curtain Grouting: Perform per ASTM F 2414-04 (2009 or latest edition) and the chemical grout manufacturer's recommended installation methods. Perform the curtain grouting procedure when there are multiple active leaks and the drilling and injection procedure does not eliminate the active leaks.

3.4 INVERT CHANNEL COATING

NOTE: In general manhole inverts should be coated when a liner has been installed in the upstream/downstream pipes or when the invert needs repair. This will ensure a monolithic lining system for the manhole. However, when the invert is in excellent condition it may not be necessary to coat the invert.

- A. Coat invert channels with a material compatible with the manhole lining system per the manhole lining manufacturer's recommendations to prevent infiltration and to build up the invert channel to the invert elevations of the new sewer main or cured-in-placed lined sewer and to form a smooth flow channel. The entire channel shall be coated. The coating shall be troweled uniformly onto the invert at a minimum one-half ($\frac{1}{2}$ ") inch in thickness or as recommended by the manufacturer. The coating shall extend out onto the bench of the manhole sufficiently to tie into the monolithic liner.
- B. The material used for the invert channel shall be suitable for the intended purpose and shall be compatible with the materials used for the manhole lining system. The material for the invert channel shall be as recommended by the cementitious liner manufacturer and installed in accordance with the manufacturer's recommended installation instructions and procedures. Coating the invert may be waived when the invert is in excellent condition and upon approval by the City or Engineer.

3.5 LOCATING, RAISING, RESETTING, AND/OR REPLACING MANHOLE RING AND COVER ASSEMBLIES

NOTE: The following items A-E are often site- specific and can be altered based on City specifications.

- A. Locate and uncover buried manhole ring and covers; remove existing manhole rings and covers; dispose of existing manhole rings and covers, if they are not being reused; and install new or reused manhole rings and covers as directed by the City and/or Engineer. Repair any damage to the manhole chimney or corbelling caused by the removal of the existing

manhole frame at no additional cost to the City.

- B. Existing rings and covers to be reused shall be thoroughly cleaned before reinstallation.
- C. If existing rings and covers are not to be reused, properly dispose of these materials in accordance with local laws and Engineer and NPU approval.
- D. When resetting existing rings and covers, apply preformed flexible joint sealant Kent Seal No. 2 by Hamilton-Kent or Ram-Nek by K.T. Snyder Company or equal.
- E. Install new or reused rings so that the tops of the covers are at the required grade. Utilize precast concrete grade rings to set the manhole frame and cover to the finished grade. Precast concrete grade rings shall be set in a bed of butyl mastic sealant.

3.6 CEMENT EXTERIOR

- A. For raised manholes with damaged exterior, masonry manholes without an exterior cement coating, manholes where ring and cover assemblies are being replaced or reset, where noted on the Drawings, or as directed by Engineer, repair existing or install new cement exterior coating for manholes as follows:
 - 1. Prepare exterior surface of manholes using procedures outlined in Section 3.2, A above.
 - 2. Following surface preparation, spray or hand trowel the exterior from existing/finished grade to above the frame/chimney seal using the product specified in Section 336080 Paragraph 2.1 and in accordance with the manufacturer's installation instructions. Apply a minimum finished thickness of two (2") inches.
 - 3. Apply a curing compound in accordance with ASTM C309-11 to the exterior cement.

3.7 FIELD TESTING AND ACCEPTANCE

- A. The Engineer or City may enter the manholes to inspect the benching, invert channels, manhole wall/pipe connections, surface preparation, and other parts of the work. Provide forced air ventilation, gas monitors and detectors, harnesses, lights, etc. for the Engineer or City to enter the manhole and perform the inspection in complete accordance with OSHA requirements.

- B. Contractor shall visually verify absence of leaks and perform a vacuum test. Vacuum test shall be performed as follows:

Vacuum Test: Test rehabilitated manholes using vacuum test method, following manufacturer's recommendations for proper and safe procedures. Vacuum testing of manholes and structures shall be performed after curing of linings. Vacuum testing will not be required on manholes with sewer lines greater than 16-inches in diameter due to safety concerns. Any visible leakage in manhole or structure, before, during, or after test shall be repaired regardless of test results. Vacuum test shall be performed in accordance with ASTM C 1244.

- C. The manhole wall surfaces shall be sufficiently prepared for the manhole lining system as recommended by the lining manufacturer. The manhole wall surfaces shall be free from significant defects. Defects which will affect, in the foreseeable future, or warranty period, the integrity or strength of the manhole shall be repaired at the Contractor's expense, in a manner mutually agreed upon by the Engineer and the Contractor.
- D. No active infiltration shall be observed in the manhole as confirmed by visual inspection of the City or Engineer. Infiltration found shall be repaired by the Contractor immediately.
- E. The Contractor is responsible for coordinating inspection times with the Engineer and NPU.
- F. The testing of each manhole lining system is described in Specification 336082.

GENERAL NOTE TO USER: Each type of manhole lining system will require a specific type of testing for approval and it is critical to have an experienced inspector or engineer onsite to observe the testing and approve the material was installed at the correct thickness and applied correctly. The specific tests performed are outlined in each section in 336082.

END OF SECTION

SECTION 336081

TEMPORARY BY-PASS PUMPING SYSTEMS

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and install, field test, and operate temporary by-pass pumping systems as proposed by the Contractor for the purpose of diverting flow around work areas as required.
- B. The design, installation and operation of temporary by-pass pumping systems shall be the Contractor's responsibility. The Contractor shall provide the services of a professional bypass company who can demonstrate to the City and Engineer that the company specializes in the design and operation of temporary by-pass pumping systems. The by-pass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.
- C. Maintain temporary by-pass pumping systems so that they are completely functional throughout the required period of service.
- D. Following the required period of service, remove temporary by-pass pumping systems from site.
- E. Provide all maintenance including manufacturer recommended preventive maintenance and on-call repair services. Contractor shall provide repair services and/or replacement equipment 24 hours per day, seven days per week within 4 hours of being called.
- F. Should the Contractor elect to use diesel fuel for temporary by-pass pumping, the total storage quantity of fuel allowable at the plant site to operate the temporary pumps shall not exceed the sum of the individual fuel tank capacities furnished with each pump's diesel engine drive. Provide a refueling service to maintain continuous 24-hours per day, 7 days per week pumping system operation.

1.02 RELATED WORK

- A. Permits and Fees are specified in Section 016500.
- B. Environmental Protection Procedures are specified in 011060.

1.03 SUBMITTALS

A. Submit, in accordance with Section 013000, the following:

1. A detailed description of each proposed temporary by-pass pumping system including pumps, pump drives, piping, hoses, valves, fittings, controls, wiring and any other related accessories required to provide a complete operating system in conformance with the requirements of this Section.
2. Detailed plans and sections showing the proposed pumping system layout including dimensions and elevations. Plan shall include but not be limited to the following:
 - a. Staging area and access requirements for all pumps.
 - b. Number, size, material, location and method of installation of suction piping.
 - c. Number, size, material, location and method of installation of discharge piping.
 - d. Pump size, capacity, number of units, diesel engine specifications, fuel tank capacity, fuel consumption requirements, and method of refueling.
 - e. Calculations of static lift, pipe size selection, friction losses, flow velocity and pump selection.
 - f. Pump curves showing pump operating range.
 - g. Proposed method of freeze protection.
 - h. Proposed method of noise control for each pump.
 - i. Temporary pipe supports, anchorage, cover material and other accessories as required to stabilize the piping system.
 - j. Installation schedule and maintenance schedule.
 - k. Vendor phone number and pager number for 24-hour service.
 - l. A minimum of five reference installations of projects with similar size in wastewater pumping applications. Include contact names and phone numbers.
 - m. List of recommended spare parts to be stored on-site for emergency maintenance.
3. Provide information on the vendor's service staff capabilities and replacement parts inventory to show that the vendor has sufficient resources to provide emergency service and replacement equipment and/or parts to the Bucklin Point site within 4 hours of a service call.
4. A description of system operation and controls. Include a list of all alarm conditions and procedures for correcting problems including equipment replacement.

5. A description and schedule for the proposed procedures for startup and testing of the facilities to demonstrate compliance with specified automatic operation and maintenance of a constant discharge pressure.
6. A plan of operations for inclement weather including storms. The plan shall demonstrate the ability to maintain pumping system operations throughout inclement weather events.
7. A description and schedule for the proposed procedures for dismantling the system and restoring normal operations at the WWTP.

1.04 REFERENCE STANDARDS

A. Design, manufacturing and assembly of elements of the equipment specified herein shall be in accordance with the following:

1. American Institute of Steel Construction (AISC)
2. American Iron and Steel Institute (AISI)
3. American Society of Mechanical Engineers (ASME)
4. American National Standards Institute (ANSI)
5. American Society for Testing Materials (ASTM)
6. American Welding Society (AWS)
7. American Bearing Manufacturers Association (ABMA)
8. Institute of Electrical and Electronics Engineers (IEEE)
9. National Electrical Manufacturers Association (NEMA)
10. Occupational Safety and Health Administration (OSHA)
11. Underwriters Laboratories (UL)

B. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

1.05 QUALITY ASSURANCE

A. The Contractor shall employ the services of a vendor who can demonstrate 5 years of recent and continuous specialization in

the design, installation, operation and removal of temporary by-pass pumping systems in wastewater applications. The complete system shall be furnished from a single vendor who shall be capable of providing service staff, repair parts and replacement of any deficient system component within 4 hours of a service call, twenty-four hours per day, seven days per week.

1.06 SYSTEM DESCRIPTION

- A. Where proposed by the Contractor, temporary by-pass pumping systems shall comply with specified requirements with Design flows shall be as specified.
- B. Pumping system control panels shall be NEMA 4 and include flow indication, a flow totalizer, indicator lamps showing which pumps are operating, selector switch for auto or manual start and stop for each pump and visual and audible alarms for indication of operation failure and alarm conditions.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Delivery, storage and handling of equipment shall be as specified in 016610.

1.08 MANUFACTURER'S SERVICES

- A. Provide the services of the manufacturer's representative as specified herein.
- B. Provide the services of the manufacturer's representative for physical checkout field testing and operation and maintenance instruction for a minimum of 1-person day per pumping system. See requirements in Part 3.
- C. Provide the services of the manufacturer's representative or designated alternative, who shall be contactable 24-hours per day via telephone or pager and shall be available to be on site within 4 hours of being contacted at no additional cost to the City.

PART 2 PRODUCTS

2.01 GENERAL PUMPING EQUIPMENT

- A. Furnish pumping units and all accessories from a single vendor. Each temporary by-pass pumping system shall be complete

including pumps, drives, piping, piping headers, valves, flow meter, controls and appurtenances as required for a complete system.

- B. The pumps, drives and controls shall be designed and built for 24-hour continuous service at any and all points within the required range of operation, without overheating, without cavitation, and without excessive vibration or strain. All parts shall be so designed and proportioned as to have the strength, stability and stiffness and be constructed to meet the specified requirements. Methods shall be provided for inspection, repairs, and adjustment.
- C. All necessary foundation bolts, nuts, and washers shall be furnished.
- D. Each piece of equipment shall be furnished with a nameplate (with embossed data) securely mounted to the body of the equipment. As a minimum, the nameplate for the pumps shall include the manufacturer's name and model number, serial number, rated flow capacity, head, speed and all other pertinent data. As a minimum, nameplates for drives shall include the manufacturer's name and model number, serial number, horsepower, speed, input voltage, amps, number of cycles and power and service factors.
- E. Refer to Section 011060 and local noise ordinances for noise limitations for the equipment.
- F. All equipment shall be suitable for outdoor operation under adverse weather conditions. Provide protection from freezing as required to maintain system operation.
- G. Pumps shall be manufactured by Thompson Pump and Manufacturing Co., Port Orange FL, or equal.

2.02 CONDITIONS OF OPERATION

- A. Pumps shall be identical in every respect with all parts interchangeable.
- B. Each pump shall be designed for the conditions of service specified by the City. All pumps shall have a rising head capacity curve for stable pump operation from the minimum head operating point to the shut-off head.

1. Service:

Temporary By-Pass

	Pumping
2. Number of pumps:	As required by the Application
3. Liquid:	Raw Wastewater
4. Design capacity total peak (gpm):	As required by the Application
5. Type of drive	Diesel engine or Electric

2.03 PUMPING SYSTEM COMPONENTS

- A. All pumps shall be centrifugal, end suction, fully automatic self-priming units that do not require the use of foot-valves, vacuum pumps, diaphragm pumps, or isolation valves or float apparatus in the priming system.
- B. Pump seals shall be high pressure, mechanical self-adjusting type with solid carbide faces capable of withstanding suction pressures to 100 psi without the pump running. The mechanical seal shall be cooled and lubricated in an oil bath reservoir, requiring no maintenance or adjustment. The oil bath reservoir shall not come in contact with or leak into the pumped water. Each pump shall be capable of running dry, with no damage for extended periods of time. All pump seal metal parts shall be stainless steel. All elastomers shall be Viton.
- C. Each pump shall be driven by a diesel engine or electric motor. Diesel engine shall be water cooled. If the Contractor uses electric motor driven pumps, power costs are the responsibility of the Contractor.
- D. If using diesel driven pumps, each pump and diesel engine shall be skid mounted with integral fuel tank and skid lifting bracket.
- E. Provide automatic start/stop controls for the pumping system to automatically maintain system flow within the flows specified. Controls shall be contained in a local control panel with provision to manually operate each pump, provide indication of pump operation, and indicate the total flow being pumped.
- F. Provide all required suction and discharge pipe and fittings, discharge manifold pipe and fittings, shutoff valves, check valves, flow meter, pressure regulating valves, insulation,

freeze protection, and all required accessories. All pipe and fittings shall be steel with flanged or quick connect coupling connections, or high-density polyethylene pipe with fused joints. All joints must be 100 percent restrained. Suction piping shall be rated for 25-in Hg vacuum. Discharge piping, fittings, connections, valves, and other discharge piping accessories shall be rated for a minimum working pressure of 150 psi.

PART 3 EXECUTION

3.01 INSTALLATION AND PHYSICAL CHECKOUT

- A. Installation shall be in accordance with the system supplier's recommendations and approved shop drawing submittals.
- B. Noise shall meet the local noise ordinances and Section 011060.
- C. Install pumping units on a firm level surface.
- D. Furnish the services of the pump system supplier's representative for a minimum of one day per temporary by-pass system to assist equipment installation and physical checkout.

3.02 FIELD TESTING

- A. Provide field in accordance with the approved shop drawing submittal. Field tests shall demonstrate conformance with system requirements.
- B. The Contractor shall require that field testing be conducted by the pump system supplier's representative in the presence of the Engineer. Furnish the services of the pump system supplier's representative for a minimum of one day per temporary by-pass system to conduct required testing.
- C. Field testing shall demonstrate a minimum of 24 hours of continuous operation. During the 24 hours of continuous operation, the system shall demonstrate the ability to automatically start and stop pumps in response to changing flow conditions.
- D. Remove and replace any system component that fails to perform in accordance with specified requirements.

3.03 SYSTEM OPERATION

- A. Perform all required maintenance on the equipment to maintain the system integrity and capacity as specified.
- B. Provide clean-up and disposal of contaminated material and reporting for all product spills.

3.04 EQUIPMENT REMOVAL

- A. At the completion of the period of service, disconnect all temporary piping and remove all system components from the site. Restore the work site to its original condition.

END OF SECTION

SECTION 336082

MONOLITHIC MANHOLE LINING SYSTEMS

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials, equipment, and incidentals required to install and test an Epoxy Manhole Monolithic Lining System as noted on engineering plans (if applicable) and as specified herein for the purpose of:
1. Eliminating infiltration and exfiltration.
 2. Providing corrosion protection.
 3. Repairing voids and restoration of the manhole structural integrity as a result of applying a monolithic liner to the wall and bench surfaces of brick, concrete, or any other masonry construction material.
 4. Extending lining from invert to top of cone, as specified.
- B. Accurately field measure and size each individual manhole. Contractor is reminded that each existing wastewater collection system manhole designated to receive monolithic lining may have a different configuration and varying field dimensions. Field measurements shall conform to requirements of monolithic lining manufacturer.
- C. Do not install manhole lining until other manhole rehabilitation and procedures for manhole preparation and cleaning as specified on the Plans and in Section 336080 Manhole Rehabilitation work is complete.
- D. Contractor is advised that presence or absence of leakage through manhole wall noted on manhole inspection reports and as seen in Contractor's independent inspection of manholes prior to bidding is dependent upon ground water levels and conditions at time of inspections. High ground water levels in project area typically occur in summer months (June through October) but will vary with rainfall in any given year. Contractor shall reflect its assumptions and judgments on leakage through manhole walls based on this information in unit prices bid for lining manholes. Stop leakage prior to lining manholes. No additional payment will be made to Contractor for repairing leaks not visible prior to bidding or wastewater collection system rehabilitation.

1.2 RELATED WORK

- A. Trenching, Backfilling and Compaction - Section 311020
- B. Sewer Line and Manhole Cleaning – Section 336070
- C. Manhole Rehabilitation – Section 336080
- D. Cured-in-place Pipe Liner – Section 336084

1.3 ACRONYMS

- A. EMLM: Epoxy Manhole Monolithic Liner Material
- B. EMMLS: Epoxy Manhole Monolithic Liner System

1.4 SUBMITTALS

- A. Submit to the City and Engineer, in accordance with Division 01 of the Specifications, shop drawings, product data, and installation methods. Submittals shall include, but are not limited to the following:
 - 1. Manufacturers' product data, including physical properties, surface preparation, repair, application, curing, and field quality control procedures.
 - 2. Manufacturer and applicator qualifications as specified herein.
 - 3. Type of monolithic lining system to be installed for each manhole.
 - 4. Diameter, depth (rim to invert), and material for each manhole.
 - 5. Design data and specification data sheets listing parameters used in EMMLS design and thickness calculations based on applicable provisions of ASTM Standards.
 - 6. A list of municipal installations performed by the manufacturer and Contractor over past five (5) years along with contact name, telephone number, and brief description of work performed.
- B. Submit to the City and Engineer, within 10 days of Effective Date of the Agreement, name of supplier (manufacturer), name of installer, and a list of materials to be furnished.
- C. Submit a step-by-step description of methods, practices, intervals, etc. to be used in application and curing of monolithic lining system to meet

requirements of this specification Section.

D. Test Reports

1. Prior to each shipment of materials, submit certified test reports that materials for this Contract were manufactured and tested in accordance with ASTM Standards specified herein.

1.5 REFERENCED STANDARDS

A. ASTM International Standards:

1. ASTM C 267 - Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing.
2. ASTM C 722 - Standard Specification for Chemical Resistant Resin Monolithic Surfacing.
3. ASTM C 882 - Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete.
4. ASTM C 884 - Test Method for Thermal Compatibility Between Concrete and an Epoxy-Resin Overlay.
5. ASTM C 1244 - Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test Prior to Backfill.
6. ASTM D 638-98 - Standard Test Method for Tensile Properties of Plastics.
7. ASTM D 695-96 - Standard Test Method for Compressive Properties of Rigid Plastics.
8. ASTM D 790 - Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics.
9. ASTM D 870 - Practice for Testing Water Resistance of Coatings Using Water Immersion.
10. ASTM D 1763 - Standard Specifications for Epoxy Resins.
11. ASTM D 2240-97e1 - Standard Test Method for Rubber Property Durometer Hardness.
12. ASTM D 2247 - Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.

13. ASTM D 4787-13 - Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates.
14. ASTM D 6132-08 - Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Gage.
15. ASTM D 7234-12 - Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.
16. ASTM F 1216 - Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube.
17. ATSM F 2414-04 (2009) - Standard Practice for Rehabilitation of Sewers Using Chemical Grouting.

B. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

1.6 QUALIFICATIONS

A. Contractor performing the work shall be fully qualified, experienced, and equipped to complete this work expeditiously and in a satisfactory manner. Contractor shall submit the following information to the City and Engineer for review and approval before any work is performed:

1. Be certified by manufacturer to install monolithic lining system.
2. Have a minimum of five (5) years' experience or 500 manholes in performing this type of specialized work. This may be waived by the City through their product approval process with documented demonstration projects.
3. Be capable of providing crews as needed to complete this work without undue delay.
4. City reserves right to disapprove use of Contractor, based on insufficient qualifications.

1.7 QUALITY ASSURANCE

A. Supplier shall be responsible for provisions of test requirements specified in above referenced ASTM Standards as applicable. In

addition, monolithic lining products to be installed under this Contract may be inspected at plant for compliance with these specifications by an independent testing laboratory provided by the City. Contractor shall require manufacturer's cooperation in these inspections. Cost of plant inspection of lining products and materials approved for this Contract shall be borne by City.

- B. Inspections of lining products and materials may also be made by Engineer or other representatives of City after delivery. Lining products and materials shall be subject to rejection at any time on account of failure to meet any of the Specification requirements, even though samples may have been accepted as satisfactory at place of manufacture. Lining materials rejected after delivery shall be marked for identification and shall be immediately removed from job site.
- C. Contractor shall furnish services of manhole liner manufacturer's field service technician, who has complete knowledge of manhole rehabilitation, to advise and assist manhole lining installation and provide instruction to Contractor for rehabilitation of first five manholes. Field service technician shall be fully qualified and experienced in manhole rehabilitation work with epoxy manhole lining systems.
- D. Provide monolithic epoxy lining from a single manufacturer. Supplier shall be responsible for provisions for test requirements specified in ASTM Standards C 722, C 882, C 884, D 870, D 1763, and D 2247 as applicable for monolithic lining.
- E. Inspections of EMMLM may be made by Engineer or other representatives of City after delivery. EMMLM shall be subject to rejection at any time on account of failure to meet any of the Specification requirements, even though sample EMMLM may have been accepted as satisfactory at place of manufacture. EMMLM rejected after delivery shall be marked for identification and shall be removed from the job at once.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Care shall be taken in shipping, handling, and placing to avoid damaging lining products. Extra care may be necessary during cold weather construction. Lining product or material damaged in shipment shall be replaced as directed by Engineer or the City.
- B. Lining product showing deterioration, or which has been exposed to any other adverse storage condition that may have caused damage, even though no such damage can be seen, shall be marked as rejected and removed at once from the job site.

- C. While stored, lining products shall be adequately packaged and protected. Lining products shall be stored in a manner as recommended by manufacturer.
- D. Materials shall be stored, shipped, and handled according to their material safety data sheet and manufacturer's recommendations. EMLM damaged in shipment shall be replaced as directed by Engineer at no additional cost to the City.

1.9 SAFETY AND SITE CONDITIONS

- A. Comply with and enforce Federal, State, and Local safety regulations. Contractor's personnel shall be certified for confined space entry.

1.10 WARRANTY

- A. Warranty monolithic lining placed by Contractor for a period of two (2) years from date of Substantial Completion. During this period, defects discovered in monolithic lining, as determined by the City or Engineer, shall be repaired, or replaced in a satisfactory manner at no cost to the City. Such repair or replacement shall include cost of removal and reinstallation. After 21 months following Substantial Completion of manhole lining, the City or Engineer will inspect the work to ensure proper performance. If deficiencies are found during these inspections, Contractor shall make necessary repairs at no additional cost to the City.
- B. Contractor shall be responsible for stopping leaks prior to installation of monolithic lining system.

PART 2 – PRODUCTS

2.1 SYSTEM REQUIREMENTS

- A. Design and install monolithic manhole lining system to protect concrete, brick and mortar, and other manhole surfaces from corrosion. Design products to stop infiltration, root intrusion, and further deterioration in manhole. Interior surfaces to be protected shall include walls, benches, inverts, pipe junctions and chimney (corbel).

2.2 EPOXY MONOLITHIC MANHOLE LINING SYSTEM (EMMLS) (HARSH SULFIDE CONDITIONS – SUBSTRATE SURFACE OF PH 1.0 OR HIGHER)

- A. Note: Epoxy Liner is suitable for harsh hydrogen sulfide conditions, pH of 1.0 or higher, structures with very turbulent flow such as pump station wet wells and force main discharge structures.
- B. EMMLS shall be a resin-filled system suitable for use as a trowel-, spray- or spin-applied monolithic lining in wastewater collection manholes. Resin shall be 100 percent epoxy resin. EMMLS shall conform to ASTM C 722. EMMLS materials shall be suitable for specified design conditions.
1. EMMLS shall provide a minimum service life of 25 years.
 2. Cured EMMLS shall be continuously bonded to brick, mortar, concrete, chemical sealant, grout, pipe, and other surfaces inside wastewater collection system manhole. Provide bond strength data on cured EMMLS based on ASTM C882 test method.
 3. Cured EMMLS shall provide a minimum total thickness of 0.10 inches (100 mils). Cured lining thickness shall be continuous with proper sealing connections to unsurfaced areas.
 4. Chemical sealants or grouts used to seal active manhole leaks, to patch cracks, to fill voids and to otherwise prepare manhole surfaces shall be compatible with EMMLS.
- C. When cured, EMMLS shall form a continuous, tight-fitting, hard, impermeable lining, which is suitable for wastewater collection system service and chemically resistant to any chemicals or vapors normally found in domestic wastewater.
- D. EMMLS shall bond to wastewater collection system manhole being rehabilitated after being placed and cured. EMMLS shall cover complete interior of existing wastewater collection system manhole including benches (shelves), inverts (channels or troughs) and pipe connections. EMMLS shall provide a continuous watertight seal or barrier.
1. EMMLS shall effectively seal interior surfaces of wastewater collection system manhole and prevent any penetration or leakage of groundwater infiltration.
 2. Provide water resistance data on EMMLS based on ASTM Standards D 870 and D 2247 test methods.
 3. EMMLS shall be compatible with thermal condition of wastewater collection system manhole surfaces. Surface temperatures will range from 30 degrees F to 80 degrees F. Provide test data on EMMLS thermal compatibility based on ASTM C 884.

4. EMMLS shall be separated from manhole frame by a suitable joint. Joint shall be sealed with joint sealing tape.

- E. EMMLS shall be as manufactured by Raven Lining Systems, Warren Environmental, Sauereisen, AP/M PermaForm, WBE Dorcas Inc., or an approved equal.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Notify property owners who discharge wastewater directly to manhole being surfaced that their service will be disrupted while lining is being placed, cured and active pipe and service connections reopened. Notify individual property owners at least 72 hours in advance, giving date, start time, and estimated completion time for the work being conducted. This notification shall be coordinated with distribution of door hangers.
- B. When existing surfaces adjacent to areas where work of this Section is scheduled may be damaged or harmed, provide temporary materials to protect those existing surfaces. Contractor shall determine type and quantity of protective materials.

3.2 INSTALLATION – EPOXY MONOLITHIC MANHOLE LINING SYSTEM (EMMLS)

- A. Notify property owners who discharge wastewater directly to manhole being surfaced that EMMLS is being placed and that bypass pumping of wastewater flows will be provided. Notify individual property owners at least 72 hours in advance, giving date, start time, and estimated completion time for the work being conducted.
- B. Provide bypass pumping of wastewater flows where and when rehabilitation work is being performed.
- C. Place EMMLS in manhole. Installation of EMMLS shall be in complete accordance with applicable provisions of ASTM C 722 and manufacturers' specifications. Manufacturer's representative shall be present during actual installation.
 1. Prior to placing EMMLS, manufacturer's representatives shall approve surface preparation work and installation conditions including temperatures.
 2. Surfaces shall be sufficiently dry and even.

3. Bottom and horizontal surfaces including benches and channels shall have EMMLS applied to required thickness by hand troweling or spray on methods.
4. Side vertical surfaces shall have EMMLS applied to required thickness by manufacturer's recommended methodology.
5. Temperature limitations shall be handled as appropriate and as approved by the installer.

- D. Cutting and sealing of EMMLS at manhole pipe and top connections shall provide watertight seals.

3.3 FIELD QUALITY CONTROL – GENERAL

- A. The Engineer or the City may enter manholes to inspect benching, invert channels, manhole wall/pipe connections, surface preparation, and other parts of the work. Contractor shall provide forced air ventilation, gas monitors and detectors, harnesses, lights, etc. for Engineer or City to enter manhole and perform inspection in complete accordance with OSHA requirements at no additional cost to the City.
- B. Finished manhole surface shall be continuous and as free as commercially practicable from significant defects. Defects which will affect, in foreseeable future or warranty period, the integrity or strength of manhole shall be repaired at Contractor's expense, in a manner mutually agreed upon by the City/Engineer and Contractor.
- C. There shall be no cracks, voids, pinholes, uncured spots, dry spots, lifts, delamination, or other type defects in liner. If any defects are discovered after liner has been installed, it shall be repaired or replaced in a satisfactory manner within 72 hours and at no additional cost to the City. This requirement shall apply for entire warranty period.
- D. Active infiltration through lining system shall be zero.
- E. Contractor is responsible for coordinating testing times with the City and Engineer.

3.4 FIELD QUALITY CONTROL – EPOXY MANHOLE MONOLITHIC LINING SYSTEM (EMMLS)

- A. Field acceptance of EMMLS shall be based on the City/Engineer's evaluation of proper monolithic lining of manhole. Field acceptance shall

also be based on City/Engineer's evaluation of appropriate installation and curing test data along with review of manhole inspections.

- B. EMMLS shall provide a continuous monolithic lining with uniform thickness throughout manhole interior. If thickness of EMMLS is not uniform or is less than specified, it shall be repaired or replaced at no additional cost to the City.
 - 1. Engineer or the City will measure EMMLS cured thickness by physically cutting through lining (by drilling or coring) and making a direct measurement. Make a minimum of two thickness measurement locations in each EMMLS manhole. A suitable non-destructive type of thickness measurement may also be used.
 - 2. EMMLS thickness measurement locations shall be repaired by Contractor in accordance with manufacturer's recommendations. These repairs shall be included in two-year EMMLS warranty.
 - 3. Contractor shall also perform in-place testing in each manhole to verify adhesion of EMMLS to existing manhole substrate. Adhesion strength tests shall be in accordance with ASTM D 7234 and test area shall be isolated from remaining portion of manhole by coring through liner into substrate. Two tests shall be performed in each manhole at locations directed by the City or Engineer. Testing shall consist of a calibrated pull test. Equipment shall be provided by Contractor. Samples shall meet a minimum pressure resistance of 400 pounds per square inch (psi).
- C. There shall be no cracks, voids, pinholes, uncured spots, dry spots, lifts, delamination, or other type defects in EMMLS.
- D. Contractor shall submit proposed method for testing for these defects. One of the following tests shall be performed by Contractor as directed by City or City's Agent.
 - 1. Vacuum Test: A vacuum test conforming to requirements of ASTM C 1244 shall be performed for every lined manhole or circular structure where practical.
 - 2. Holiday Detection Test: A high voltage holiday detection system may be used to determine if any holidays (pinholes, voids, etc.) exist in lining. Set sensitivity control of holiday tester to accommodate thickness of applied lining (100-125 volts for each one (1) mil thickness). Follow guidelines of holiday testing equipment manufacturer for correct control settings. One such service is Tinker & Razor Holiday Tester Model APW.

3. Should a holiday be detected, it shall be marked, and the lining installation Contractor shall repair void according to correct procedure determined by system manufacturer.
4. Ultrasonic Testing: Per ASTM D 6132.

3.5 CLEANING

- A. Remove temporary protective materials at existing surfaces surrounding work of this Section.
- B. Remove excess materials, installation equipment, and clean work areas around manholes. Properly remove trash and debris leaving work area in condition that existed prior to work performed under this Section.

END OF SECTION

SECTION 336084

CURE IN PLACE PIPE LINING

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all labor, materials, equipment, and incidentals required to install and test the cured in place pipe (CIPP) lining and appurtenances complete as shown on the Drawings and/or as specified herein, including, but not limited to services necessary for traffic control, bypass pumping and/or diversion of sewage flows, cleaning and television inspection of sewers to be lined, liner installation, reinstatement of service connections, quality control, providing samples for performance of required material tests, final television inspection, testing of lined pipe system and warranty work, all as specified herein.
- B. Sewer cleaning, pre-rehabilitation and post-rehabilitation closed circuit television (CCTV) inspection of all pipes to be rehabilitated by CIPP lining methods are required per applicable Specifications as listed herein. Note that the City will be performing the closed-circuit television (CCTV) inspection of all pipes to be rehabilitated. The Contractor will perform all post-rehabilitation CCTV inspections.
- C. Contractor shall remove obstructions and protruding service connections as required to complete the CIPP rehabilitation. Removal of all pipeline obstructions and protruding service connections required for sewer rehabilitation using cured in place pipe lining shall be completed prior to the pre-rehabilitation CCTV inspection.

Neither the CIPP system, nor its installation, shall cause adverse effects to any of the City's processes or facilities. The use of the product shall not result in the formation or production of any detrimental compounds or by-products in the system or at the wastewater treatment plant. Notify the City and identify any by-products produced as a result of the installation operations, test and monitor the levels, and comply with any and all local waste discharge requirements. Cleanup and restore existing surface conditions and structures, and repair any of the CIPP system determined to be defective. Conduct installation operations and schedule cleanup in a manner to cause the least possible obstruction and inconvenience to traffic, pedestrians, businesses, and property owners or tenants.

- D. The Contractor, or Contractor performing the Work, shall not change any material, design values or procedural matters stated or approved herein, without informing the City/Engineer and receiving written approval of the change. Such changes constitute a breach of contract and shall result in rejection and removal of work performed with the unapproved materials or processes at no cost to the City.
- E. Maintenance and Protection of Traffic, confined space entry, and work site protection shall be the responsibility of the Contractor and costs of these items are included in the cost of the project. Notify Police, Fire, NPU, Ambulance agencies, and residents/businesses in advance of any and all road closures. Comply with applicable OSHA trench safety rules and confined space and sewer system entry.

1.2 RELATED WORK

- A. Maintenance of flow in existing sewers and drains.
- B. Sewer system smoke testing is included in Section 336065.
- D. Sewer line cleaning is included in Section 336070.

1.3 SUBMITTALS

- A. Submit to the City/Engineer, in accordance with Section 013000, shop drawings, product data, materials of construction, design calculations, and details of installation. The Contractor shall provide this information without delay or claim to any confidentiality. Contractor shall note that there are two different sets of submittals required with different time frames as shown below in Sections 1.3.B. and 1.3.C.
- B. Submittals required with the bid shall include the following:
 - 1. Letter to certify that the CIPP will conform to the project requirements as outlined in the Scope of Work and as delineated in these specifications and that the Contractor's personnel has had at least 5 (five) years active experience in the commercial installation of CIPP. In addition, the Contractor must have successfully installed at least 750,000 feet of a CIPP product in wastewater collection systems of a similar size, length and configuration as contained in this contract as documented by verifiable references. Submit name and experience of each lead individual performing work on this Contract. Personnel replaced by Contractor shall have similar verifiable experience as personnel originally submitted for project. Contractor's project managers must have

a minimum of two (2) years of CIPP installation experience and must be on-site during the installation of the CIPP products.

2. Submit information in following subparagraphs for review and approval before any CIPP lining work is performed.

- a. Number of years of Contractor's experience in installing CIPP lining.
- b. Documentation and a sufficient number of references to meet qualifications requirements as listed in Paragraph 1.5 Qualifications, of this Section.
- c. Names and product information of the CIPP felt tubes and resin materials to be utilized for this project and their suppliers.
- d. A certified statement from manufacturer that Contractor is an approved installer as certified and/or licensed by the CIPP liner manufacturer.

3. A list of a minimum of five (5) municipal clients that CIPP Contractor has performed this type of work for without defects or performance problems for a period of five (5) years after installation. The list shall contain the following:

- a. Names, addresses, and telephone numbers, and e-mails of persons to be called to verify previous satisfactory performance.
- b. A full description of the actual work performed.
- c. Name of CIPP lining manufacturer and supplier for each referenced project.

4. Five (5) reports from projects within past two (2) years from independent testing laboratory analysis of liner materials showing: Modulus of elasticity as determined by appropriate ASTM standard and flexural stress as determined by ASTM D790 standard. Lining shall be of same resin system and felt tube materials as proposed for this project.

C. Submittals required within 10 days after notice to proceed shall include the following:

- 1. Detailed information on the CIPP installation procedures (wet-out, heating, curing, and cool down, if applicable) and all tools and equipment required for a complete installation. Identify which tools and equipment will be redundant on job site in the event of equipment breakdown. Equipment to be furnished for the project, including proposed back-up equipment, shall be clearly described. Contractor shall outline the mitigation procedure to be implemented in the event of key equipment

failure during the installation process.

2. CIPP lining schedules including field-verified lengths and diameters of all CIPP lining and appurtenances required. Plans should include map(s) that show insertion points for all CIPP installations.
3. Shop drawings and product data to demonstrate compliance with these specifications and identify materials of construction (including resins, catalysts, felt, etc.), felt manufacturer, location of the felt manufacturing facility, location of the wet-out facility, etc., flexible membrane (coating) material (including recommended repair/patching procedure, if applicable).
4. Manufacturers' shipping, storage and handling recommendations for all components of the CIPP System.
5. MSDS sheets for all proposed products and materials to be furnished for the project.
6. Detailed sample collection, laboratory testing and quality control procedures, including schedule and shipping and storage requirements.
7. Written description and/or plan for odor control that will ensure that project specific odors such as styrene will be minimized at the project site and surrounding area.
8. The end seal material(s) and description of their installation.
9. Detailed written plan of the method of flow maintenance (Bypass Pumping plan) and noise prevention measures.
10. A detailed description of the Contractor's proposed procedures for removal of any existing blockages in the pipeline that may be encountered during the cleaning process.
11. A detailed written traffic-control plan that details every street that will be impacted and how impacts will be mitigated.
12. Data on the maximum allowable stresses and elongation of the tube during installation and the means in which the Contractor will monitor stress and elongation (i.e., ideal inversion head and maximum cold head, minimum inversion head, maximum hot head).
13. A detailed public notification plan shall be prepared and submitted including detailed staged notification to residences affected by the CIPP installation.

14. A complete description of the proposed wet-out procedure for the proposed technology.
 15. A Safety Plan identifying all competent persons, a description of a daily safety program for the job site and all emergency procedures to be implemented in the event of a safety incident. All work shall be conducted in accordance with the Contractor's submitted Safety Plan.
 16. A detailed quality control plan (QCP) that fully represents and conforms to the requirements of these specifications. At a minimum the QCP shall include the following:
 - a. A detailed discussion of the proposed quality controls to be performed by the Contractor.
 - b. Defined responsibilities of the Contractor's personnel for assuring that all quality requirements for this contract are met. These shall be assigned by the Contractor, to specific personnel.
 - c. Proposed procedures for quality control including those pertaining to fit and finish, and product sampling and testing shall be defined and submitted as part of the plan.
 - d. Proposed methods for product performance controls, including method of and frequency of product sampling and testing both in raw material form and cured product form.
 - e. A schedule for performance and product test result reviews between the Contractor and City/Engineer at a regularly scheduled job meeting.
 - f. Inspection forms and guidelines for quality control inspections shall be prepared in accordance with the standards specified in this contract and submitted with the QCP.
 17. Design data and specification data sheets listing all parameters used in the CIPP liner design and thickness calculations based on ASTM F 1216 for fully deteriorated gravity pipe conditions. Thickness of liners for oval and egg-shaped pipe shall be calculated in accordance with the "Sewerage Rehabilitation Manual" published by the Water Research Center (WRC). All calculations shall be prepared under the supervision of and stamped by a Professional Engineer registered in the State of Florida.
- D. Submittals before, during and after CIPP installation work shall include the following:

1. Prior to each shipment of CIPP lining, submit certified test reports that the CIPP lining for this Contract was manufactured and tested in accordance with all ASTM Standards specified and referenced herein.
2. CIPP lining schedules including field-verified lengths and diameters of all CIPP lining and appurtenances required to show that the contractor has physically measured every pipe to be rehabilitated. Plans should include map(s) that show insertion points for all CIPP installations.
3. Detailed installation procedures and manufacturer's recommended cure method for each diameter and thickness of CIPP liner to be installed, including CIPP lining production schedule, acceptable inversion heads and pressures, inversion or winching procedures, curing and cool-down procedures detailing the curing rate of temperature increases and cool down and the method of application, and times for each stage of the process.
4. Wet-out forms/reports for each CIPP segment with detailed information including but not limited to: date and time of wet-out, wet-out facility address, volumes and/or weights of resin, length and diameter of CIPP liner (both wet-tube and dry-tube), roller gap settings, start times, finish times, resin used (product name and batch/shipment number) and quantity, gel times, resin injection locations, thickness of CIPP liner (dry and wet), catalyst(s) name and quantity used, and any other pertinent data documenting the wet-out for each section of CIPP liner manufactured. The wet-out forms shall be submitted prior to CIPP liner installation and shall be provided without delay or claim to any confidentiality. Wet out forms shall be submitted to the City/Engineer field representative on the day of delivery.
5. CIPP liner field curing reports documenting the liner installation for all sewer segments. The CIPP liner reports shall document all details of liner installation, including manhole numbers, street names/sewer location, project number, date, time, ambient temperature, heads used during the inversion process, pressures and/or heads (minimum inversion pressure, ideal head, maximum hot head and maximum cold head) used during curing (including cool down if applicable), curing temperature, curing time, rate of cool down, CIPP liner thickness, etc. A sample report shall be submitted to the City/Engineer for approval prior to the installation of any CIPP lining. The reports shall be submitted prior to requesting payment and shall be provided without delay or claim to any confidentiality.

NOTE: The following item (#6) is for UV cured CIPP. Delete if not used.

6. For UV cured liners, record the curing and light train speed (feet per minute), light source (number of lamps, intensity and wattage), inner air

pressure (psi), exothermic (curing) temperatures per unit time over the length of the liner, and temperature of the internal liner surface. Include liner manufacturer recommended citations in the submittal.

7. Complete certified copies of the report(s) output(s) of the continuous temperature monitoring systems used in the control of the curing, printed and in electronic format. The reports shall be submitted prior to requesting payment and shall be provided without delay or claim to any confidentiality. Also provide the City/Engineer with access to the website where the secure reports can be obtained.
8. Samples of installed liner(s) for testing to be performed by an ASTM-certified independent testing laboratory, as described further herein.
9. Information on any grouts, epoxy, or cements the Contractor is proposing to use for sealing at manholes or for other uses.
10. Submittals shall be provided in three-ring binders and/or electronic format.
11. Submit daily production reports to the City/Engineer's Superintendent and/or field representative at the end of each workday.
12. A list of all service laterals (with distances and clock position) that were abandoned or reconnected as part of the work as further defined herein.
13. Some installations may result in the need to repair or replace a defective CIPP. Submit in writing, for review by the City/Engineer, specific repair or replacement procedures for potential defects that may occur in the installed CIPP. Repair/replacement procedures shall be as recommended by the CIPP system manufacturer and shall be submitted to also include the following:
 - a. Defects in the installed CIPP that will not affect the operation and long-term life of the product shall be identified and defined.
 - b. Repairable defects that may occur in the installed CIPP shall be specifically defined by the Contractor based on manufacturer's recommendations, including a detailed step-by-step repair procedure, resulting in a finished product meeting the requirements of these contract specifications. Repairable defects may include but are not limited to blisters, wrinkles, fins, pinholes, over- or under-cut lateral connections, and any voids found between liner and the host pipe.
 - c. Un-repairable defects that may occur to the CIPP shall be clearly defined by the Contractor based on the manufacturer's

recommendations, including a recommended procedure for the removal and replacement of the CIPP. Un-repairable defects may include but are not limited to thickness below required minimum thickness, structural strength below required limits, lifts, shrinkage, folds, bulges, and delamination.

14. A list of all repair or replacement of CIPP defects that were executed by the contractor including identification of segment, location of the repair, and type of repair.

NOTE: The following item requires Contractor to provide NASSCO CIPP Inspector Training to City staff. Training of the City's inspectors by the CIPP system manufacturer is an alternative. If required, it should be scheduled during the first actual installation, so the inspector learns during actual field operations. The NASSCO Inspector training program (ITCP) is another alternative that provides training for the inspector specifically on Quality Assurance, inspection procedures and testing requirements based on industry standard principals. Leave or delete this item as appropriate.

- a. Two days of inspector training, by the CIPP system manufacturer, for the City's inspectors shall be provided. This training shall be prior to liner installation, include both technical and field training and include all key aspects of visual inspection and sampling procedures for testing requirements. On smaller projects having an estimated duration of less than two weeks of lining work, system manufacturer shall furnish a check list containing key elements of the CIPP installation criteria that is are important for the City's inspector to ensure that quality control and testing requirements are performed in accordance with Contract Documents.

1.4 REFERENCED STANDARDS (LATEST REVISIONS)

A. ASTM International (ASTM):

1. ASTM D 543 - Standard and Practice for Evaluating the Resistance of Plastics to Chemical Reagents.
2. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
3. ASTM D 790 - Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
4. ASTM D 792 - Standard Test Methods for Density and Specific Gravity of Plastics by displacement.
5. ASTM F1216 - Standard Practice for Rehabilitation of Existing Pipelines

and Conduits by the Inversion and Curing of a Resin-Impregnated Tube.

6. ASTM F1336-15 - Standard Specification for Polyvinyl Chloride (PVC) Gasketed Sewer Fittings
7. ASTM F 1743 - Standard Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-Place Thermosetting Resin Pipe (CIPP).
8. ASTM F 2019 – 11 - Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Pulled in Place Installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP)
9. ASTM D 2122-98(2004) - Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings.
10. ASTM D 2412 - Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading.
11. ASTM F 2561-11 - Standard Practice for Rehabilitation of a Sewer Service Lateral and Its Connection to the Main Using a One Piece Main and Lateral Cured-in-Place Liner.
12. F2599-11 - Standard Practice for Sectional Repair of Damaged Pipe by Means of an Inverted Cured-In-Place Liner.
13. ASTM D 2990 - Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics.
14. ASTM D 5813 - Standard Specification for Cured-in-Place Thermosetting Resin Sewer Piping Systems.

NOTE: The following items (15-17) are not necessary for standard CIPP. They apply only to fiberglass reinforced CIPP. Leave or delete this item as appropriate.

15. ASTM D 3567-97(2002) - Standard Practice for Determining Dimensions of Fiberglass (Glass-Fiber-Reinforced Thermosetting Resin) Pipe and Fittings.
16. ASTM D 3681 - Standard Test Method for Chemical Resistance of "Fiberglass (Glass Fiber Reinforced Thermosetting Resin) Pipe in a Deflected Condition.
17. ASTM F 2019-03 - Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Pulled in Place Installation of Glass

Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP).

- B. National Association of Sewer Service Companies (NASSCO):
 - 1. NASSCO Pipeline Assessment and Certification Program (PACP) Reference Manual, current edition, including addenda.
- C. Water Research Centre, UK:
 - 1. Sewerage Rehabilitation Manual, Type II Design, 4th edition (April 2001), WRC Publications.
- D. Where reference is made to one of the above standards, the latest revision/update in effect at the time of bid opening shall apply.

1.5 QUALIFICATIONS

- A. Contractor performing CIPP lining work shall be fully qualified, experienced and equipped to complete this work expeditiously and in a satisfactory manner and shall be certified and/or licensed as an installer by CIPP lining manufacturer. For a Contractor to be considered as considered qualified by the City, the Contractor must satisfy all insurance, financial, and bonding requirements of the City, and must have had at least 5 (five) years active experience in the commercial installation of CIPP. In addition, the Contractor must have successfully installed at least 750,000 feet of a CIPP product in wastewater collection systems of a similar size, length and configuration as contained in this contract as documented by verifiable references. Submit name and experience of each lead individual performing work on this Contract. Personnel replaced by Contractor shall have similar verifiable experience as personnel originally submitted for project. Contractor's project managers must have a minimum of two (2) years of CIPP installation experience and must be on-site during the installation of the CIPP products.
- B. Full-time, on-site superintendent/foreman that will supervise CIPP lining installation has have a minimum five (5) years as a foreman/superintendent, documented by verifiable references, for a cured-in-place lining crew (installing actual product included with this project), and a minimum of 300,000 lineal feet of cured-in-place lining installed under his/her supervision. Such experience shall include the actual product, by trade name, CONTRACTOR proposes to install. Acceptable documentation of these minimum installations must be submitted to the City.

- C. Lead personnel including superintendent, foreman and lead crew personnel each shall have a minimum of five (5) years of total experience with CIPP technology proposed and shall have demonstrated competency and experience to perform the scope of work as documented by verifiable references.
- D. City and/or Engineer reserves the right to approve or disapprove Contractor, Superintendent, and/or manufacturer based on submitted qualifications and a follow-up interview.
- E. Contractor shall self-perform a minimum of eighty (80%) percent of the CIPP in a given work authorization and the overall project.
- F. CIPP felt and resin manufacturer(s) shall have successfully supplied a minimum of 500,000 feet of proposed liner and one million pounds of resin as documented by verifiable references.
- G. The lateral cutter is required to have at least six (6) months of experience reinstating the connection between the sewer main and lateral lining as documented by verifiable references.

1.6 GUARANTEE

- A. CIPP lining placed shall be guaranteed by Contractor and manufacturer for a period of five (5) years from date of Substantial Completion. During this period, serious defects discovered in CIPP lining, as determined by City and which may materially affect the integrity, strength, function and/or operation of pipe, shall be removed and replaced as recommended by the manufacturer in a satisfactory manner by Contractor at no cost to the City. The City may conduct an independent CCTV inspection, at its own expense, of CIPP lining work prior to completion of warranty period. Defects replaced at that time shall be fully warranted by Contractor and manufacturer for a period of two (2) years from date the defect was repaired. Wrinkles in flow stream, blisters that may affect the longevity of CIPP liner, dry spots where liner tube has no resin saturation, or other defects that may affect the integrity or strength of the CIPP or the flow capacity of the pipe, are unacceptable. Contractor shall be responsible to remove and repair, at Contractor's expense, all such defects in a manner that is satisfactory to City/Engineer. Defects also include but not limited to the following:

1. Leakage through the liner or between liner and pipe.
2. Reduction of liner thickness of more than ten percent (10%) of the thickness designed and/or required. Final liner thickness shall be delivered by Contractor based on installed product physical properties and as specified in Contract requirements.

3. Separation of liner from host pipe where an annular space is clearly noticed, shrinkages (longitudinal and/or circumferential), dry spots, delamination of liner, cured lifts, dry spots, bulges due to external loading, reverse curvatures, splits, cracks, lifts, breaks, folds, major wrinkles (as defined further herein), flats, pinholes, crazing and any other defects that in the CIPP lining will compromise the longevity of the installed product.
4. Circumferential defects (wrinkle, fin, bulge, etc.) in the invert of pipe between 4:00 and 8:00 o'clock shall not exceed three (3%) percent of the host pipe diameter or one half (1/2")-inches by visual measurement, whichever is smaller, at the discretion of the City.
5. Longitudinal wrinkles or fins shall not exceed maximum allowable height of five (5%) percent of equivalent host pipe diameter or one (1")-inch, whichever is smaller.
6. Structural strength below the required limits.

1.7 QUALITY ASSURANCE

- A. CIPP linings shall follow the quality control plan submitted by Contractor.
- B. CIPP linings shall be from a single manufacturer. Suppliers shall be responsible for provisions of all test requirements specified herein as applicable. In addition, CIPP lining to be installed under this Contract may be inspected at the plant for compliance with these specifications by an independent testing laboratory provided by the City. Contractor shall require manufacturer's cooperation with these inspections. Cost of plant inspection of all CIPP lining approved for this Contract will be the responsibility of the City.
- C. Inspections of CIPP lining may also be made by Engineer or other representatives of City after delivery. CIPP lining shall be subject to rejection at any time on account of failure to meet any of the requirements specified, even though sample CIPP lining may have been accepted as satisfactory at the place of manufacture. CIPP lining rejected after delivery shall be marked for identification and shall be removed from the job site.
- D. In the event that an installation is rejected based on review of the Contractor's post-rehabilitation CCTV inspection, the Contractor shall repair the sewer segment to the satisfaction of the City/Engineer at no additional cost to the City.
- E. Along with the physical properties testing, the Contractor shall deliver a

certified copy of the curing report output from the temperature monitoring system used in the control of the curing process for pipes; or provide the City/Engineer with access to the website where the secure report can be obtained.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Care shall be taken in shipping, handling and laying to avoid damaging the CIPP liner. CIPP liner damaged beyond repair in shipment shall be replaced as directed by the City/Engineer.
- B. Any CIPP liner showing a visible split, tear, or defect, at no additional cost to the City, shall be repaired per manufacturer's recommendations and to the satisfaction of the Engineer or, if not possible, shall be removed at once from the project site.
- C. While stored, CIPP shall be adequately supported and protected in a manner as recommended by manufacturer.
- D. CIPP liner shall be maintained at a proper temperature in refrigerated facilities to prevent premature curing at all times prior to installation. CIPP liner shall be protected from UV light. CIPP liner showing evidence of premature curing will be rejected for use and shall be immediately removed from the site.

PART 2 - PRODUCTS

2.1 CIPP FELT LINER AND RESIN

NOTE: For item B, normal recommended ratio of resin and felt by volume is 85% and 15% with some minor tolerances. The CIPP is based on the resin volume provided not the amount of felt carrier material. If the carrier material includes fiberglass or is all fiberglass, then the resin to fabric will be adjusted as recommended by the manufacturer. If there are missing pipe segments, this usually will require some additional reinforcement or a pre-liner to avoid overstretching of the liner.

- A. CIPP liner shall be Granite Inliner by Granite Construction, Inc., Insituform by Insituform Technologies, Inc., National Liner by National EnviroTech Group LLC, SAK Liner by SAK Construction LLC, CIPP Corp., Sancon CIPP by Sancon Engineering Inc., Improved Technologies Group, or pre-approved equal.
- B. CIPP liner shall be composed of tubing material consisting of one or more layers of a flexible non-woven polyester felt with or without additives such as woven fiberglass or other fibers and meet the requirements of ASTM F 1216, ASTM F 1743, and ASTM D 5813. Felt

content of CIPP liner shall be determined by Contractor, but shall not exceed 15 percent of the total impregnated liner volume. Fabric tube shall be capable of absorbing and carrying resins, constructed to withstand installation pressures and curing temperatures and stretch to fit irregular pipe sections. Contractor shall submit certified information from felt manufacturer on normal void volume in the felt fabric that will be filled with resin.

- C. CIPP liner tube may be made of single or multiple layer construction, with any layer not less than 1.5 mm thick, unless the tube is made of fiberglass material. Wet-out fabric tube shall have a uniform thickness and void space for resin distribution that when compressed at installation pressures will produce a predictable finished thickness that meets or exceeds the design thickness after cure.
- D. No material shall be included in fabric tube that may cause de-lamination in cured CIPP. No dry or unsaturated layers shall be acceptable upon visual inspection as evident by color contrast between felt fabric and activated resin containing a colorant.
- E. Wall color of interior pipe surface of CIPP after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made. Hue of the color shall be dark enough to distinguish a contrast between fully resin saturated felt fabric and dry or resin lean areas.
- F. Seams in the fabric tube, if applicable, shall meet the requirements of ASTM D5813.
- G. The outside layer of the tube shall be coated with an impermeable material compatible with the resin and fabric.
- H. Resin: Shall be a corrosion resistant polyester or vinyl ester resin and catalyst system or epoxy and hardener system manufactured specifically for sewer rehabilitation, that, and when properly cured within the tube composite, meets the requirements of ASTM F 1216, ASTM F 1743 or ASTM F 2019, the physical properties herein, and those, which are to be utilized in the design of CIPP for this project. Resin shall produce CIPP that will comply with or exceed structural and chemical resistance requirements of this specification. Liner material and resin shall be completely compatible. Generally, resin shall not contain fillers, except those required for viscosity control or fire retardance or increase strength, and with applications for which inert fillers would facilitate better heat transfer and retention during installation. Liner contractor may add up to five (5%) percent by mass, a thixotropic agent for viscosity control, which will not interfere with visual inspection.

- I. Resins may contain pigments, dyes, or colorants, which shall not interfere with visual inspection of cured liner. Quantity of resin used for tube impregnation shall be sufficient to fill volume of air voids in tube with additional allowances for polymerization shrinkage and loss of resin through cracks and irregularities in original pipe wall. Use serial vacuum impregnation or pressure impregnation process (or equal) to provide maximum resin impregnation throughout the tube.
- J. Prior to inversion, if applicable, outside and/or inside layer of tube (before inversion/pull-in as applicable) shall be coated with an impermeable, flexible membrane that will contain the resin and facilitate, if applicable, vacuum impregnation and monitoring of resin saturation during the resin impregnation (wet out) procedure.
- K. Exterior of manufactured tube shall have distance markings along its length at regular intervals not to exceed five (5') feet. Use these marks as a gauge to measure elongation during insertion. Should overall elongation of a reach exceed five (5%) percent, liner tube shall be rejected and replaced.
- L. Contractor shall identify the wet-out facility where all CIPP liner under this Contract will be manufactured. All CIPP liner shall be manufactured from this designated wet-out facility throughout entire Contract unless specifically approved otherwise by Engineer in writing. Multiple wet-out facilities shall not be allowed.
- M. City and/or an agent of City may inspect CIPP liner during manufacturing and wet-out. City/Engineer shall be given an opportunity to witness manufacturing of all CIPP liner for this project. The City is responsible for costs associated with witnessing the manufacturing of CIPP liner.
- N. If City/Engineer decides to inspect the manufacturing of CIPP liner, Contractor shall provide full access to witness wet-out process and shall provide any and all information related to the manufacturing as requested by City or City's agent without delay and without claims of confidentiality or product privacy.
- O. Application of resin to felt tubing (wet-out) shall be conducted under factory conditions using vacuum impregnation and materials shall be fully protected against UV light, excessive heat and contamination at all times. If on-site wet out is required, Contractor shall be required to maintain ambient conditions similar to those encountered during factory wet outs.
- P. Liners that are impregnated at the factory and transported to the project site in refrigerated trucks shall be installed as soon as possible and no more than two (2) weeks after the date of impregnation at the factory.

NOTE: If the sewer system contains traces of materials other than normal domestic sewage as defined in ASTM D 5813 then testing of the flow must be performed to verify that the proposed resin will be adequate. If not, then an alternative resin must be selected.

- Q. When cured, CIPP liner shall form a continuous, tight-fitting, hard, impermeable liner that is chemically resistant to any chemicals normally found in domestic sewage per Table 2.1 in ASTM F 1216. CIPP liner shall be chemically resistant to trace amounts of gasoline and other oil products commonly found in municipal sewerage and soils adjacent to sewer pipe to be lined.

NOTE: For brick sewers and other irregular sewers, the circumference needs to be measured at a minimum every 50 feet to capture any variations in dimensions.

- R. CIPP liner tube shall be manufactured or fabricated to a size that will tightly fit internal circumference of sewer being rehabilitated after being installed and cured. CIPP liner shall be capable of fitting into irregularly shaped pipe sections and through bends and dips within the pipeline. Allowance for longitudinal and circumferential expansion shall be taken into account when sizing and installing CIPP liner. Tube shall be properly sized to diameter of existing pipe and length to be rehabilitated and be able to stretch to fit irregular pipe sections and negotiate bends. Contractor shall determine minimum tube length necessary to effectively span designated run between manholes. Contractor shall verify lengths in field prior to ordering and prior to impregnation of tube with resin, to ensure that tube will have sufficient length to extend entire length of the run, which is defined as the length of the existing host pipe measured from the interior walls of the manholes, and/or from the ends of the pipe when/if the pipe extends into the manholes. Contractor shall also measure inside diameter and circumference of existing pipelines at face of each manhole in field prior to ordering liner so that liner can be installed in a tight-fitted condition with little or no wrinkling.

- S. Length of CIPP liner shall be as deemed necessary by Contractor to effectively carry out insertion of CIPP liner and sealing of CIPP liner at outlet and inlet manholes. Required diameter and length of each pipe segment shall be measured in advance of wet-out and a list of these measurements shall be submitted to Engineer at least one week prior to installation of each CIPP liner.

- T. Contractor shall be responsible for ensuring that correct liner is installed in each sewer reach being rehabilitated.

U. All pipes of diameter 12-in and greater shall have a minimum finished thickness of six (6) millimeters or as designed, whichever is greater.

V. Contractor shall verify proposed CIPP liner thicknesses and submit associated calculations. Actual cured liner thickness shall be $-5/+10$ percent of approved design thickness and shall not include thickness of any non-structural membrane (inner/pre- liner). CIPP liner shall be designed in accordance with applicable provisions of ASTM F 1216 for “fully deteriorated gravity pipe conditions”, unless Engineer agrees, in writing, prior to installation that “partially deteriorated gravity pipe conditions” shall apply based upon review of CCTV video. CIPP liner shall meet following design conditions, unless Engineer agrees, in writing, of their change:

1. AASHTO H 20 Live Load.
2. Constrained soil modulus of native soil in the pipe zone of 1,000 psi.
3. Soil weight of 120 pounds per cubic foot and a coefficient of friction of $Ku=0.130r$ shall be used for the installed depths.
4. Long-term flexural modulus used in design calculations shall be estimated by multiplying lowest short-term flexural modulus used in design calculations by a retention factor of 0.50 (i.e., long-term retention of mechanical properties equal to 50 percent.)
5. Design safety factor of 2.0.

NOTE: Groundwater depth shall be per the geotechnical report. In very conservative cases, groundwater depth can be considered to be at the ground surface.

6. Typical groundwater levels shall be estimated at one half (1/2) the distance between crown of pipe and ground surface. If actual groundwater depth information is available from USGS or other sources, it shall be utilized in calculations. Groundwater depth used in calculations shall be from estimated maximum groundwater level from surface to invert of interior pipe or at elevation specified for bidding purposes in Contract Documents.
7. Service temperature range shall be 40 to 100 degrees F.
8. Minimum ovality of host pipe of two (2) percent.
9. Long-term retention of mechanical properties equal to 50 percent.
10. Thickness to be used for CIPP liner shall be largest thickness as

determined by calculations for deflection, bending, buckling and minimum stiffness.

11. CIPP liner thickness for non-round pipes or circular pipes with greater than 10% ovality shall be designed on accordance with WRc Sewerage Rehabilitation Manual, Type II Design, Section 5.3.2.iii.
12. Minimum liner thickness after installation and curing for all pipes 12-inches in diameter and larger shall be six (6) mm or as designed, whichever is greater. Thicknesses following installation and curing shall be based on design calculations provided by Contractor.
13. CIPP liner shall provide a minimum service life of 50 years and, for design purposes, shall have the following minimum initial and long-term properties:

Property	Test Method	Initial (psi)	Long Term (psi)
Flexural Strength	ASTM D790	4,500	2,250
Flexural Modulus of Elasticity	ASTM D790	350,000	175,000

14. The CIPP shall be designed to withstand all imposed loads, including dead and live loads and, if applicable, hydrostatic pressure. The liner shall have sufficient wall thickness to withstand all anticipated external pressures and loads that may be imposed after installation.

2.2 END SEALS

- A. End seals shall be composed of hydrophilic rubber and molded as a one-piece, three-inch (3") wide cylinder which when installed will form a 360-degree seal between the host pipe and the newly installed liner. Use of caulking, rope or band type of an end seal shall not be allowed. Acceptable end seals are Insignia™ End Seals by LMK Enterprises or approved equal.

NOTE: For projects in which manholes will also be rehabilitated, the following item (item B) should be deleted. For projects in which manholes are not being rehabilitated, the hydrophilic seals are sufficient enough to prevent any infiltration migrating to the manhole, and installing an additional seal at the manhole wall will add price and may also prevent an inspector to confirm that the hydrophilic seals have been installed by the contractor. If required to have the end of the pipe at the manhole wall covered, item B can be included.

- B. Contractor shall install epoxy at the end of each lined pipe to cover any

piece of existing pipe that are exposed at the manhole wall. Acceptable epoxy resins are Sikadur 31 or approved equal.

2.3 SERVICE LATERAL SEALS

NOTE: If the sewer is located in groundwater table conditions, then hydrophilic rubber connections are required. If there is no groundwater present, chemical grouting is acceptable.

- A. Service lateral connections shall be sealed. If the sewer is not under the phreatic surface, for the purposes of this specification anything deeper than five (5') feet from land surface is considered below the phreatic surface, seal service lateral connection by injecting a chemical hydrophilic grout into the space between the connection and the main line. If the sewer is under the phreatic surface, for the purposes of this specification, below five (5') deep, seal the service lateral connection by installing a hydrophilic rubber connection seal.
- B. Chemical grouts shall conform to Section 336090.
- C. Rubber connection seals shall be composed of a hat made of hydrophilic polymeric neoprene rubber designed with a specified wall thickness to provide a compression seal at connection of a lateral and a mainline pipe. Use of caulking, rope or band type of an end seal shall not be allowed.
- D. Acceptable hydrophilic rubber seals are Insignia™ Hydrophilic Connection Hat by LMK Enterprises, or approved equal.

2.4 CIPP SPOT REPAIRS

- A. Install a sectional CIPP spot repair for areas where longitudinal shrinkage of the installed CIPP liner near the manholes is three (3") inches or more, at no cost to the City/Engineer.
- B. For any other longitudinal shrinkage observed within a pipe segment, install a sectional CIPP spot repair.

NOTE: Select either B or C as an approved spot repair. B refers to an air inverted Performance Liner sectional spot repair by LMK Technologies; C is an ambient cured fiberglass mat that cures at ambient temperature.

- C. CIPP spot repair shall be accomplished using a liner tube of a particular length and a thermo-set resin with physical and chemical properties appropriate for the application. The tube positioned within a translucent inversion bladder is vacuum impregnated with the resin, then placed inside a protective launching device and winched through the sewer

pipe. The tube shall consist of one or more layers of flexible non-woven needled felt or a reinforced non-woven. The tube shall be continuous in length exhibiting a uniform minimum wall thickness based upon design calculations found in ASTM F1216 appendix XI. No overlapping sections shall be allowed in the circumference or the length of the liner. The tube shall include compressible material at each end forming a smooth transition to the host pipe. The liner shall be capable of conforming to offset joints, bells, and disfigured pipe sections. The resin shall be polyester, vinyl-ester or epoxy with proper catalysts as designed for the specific application. The cured-in-place pipe shall provide a smooth bore interior. Each installation shall have a design report documenting the design criteria for a fully deteriorated pipe section, or a partially deteriorated pipe in cases where the pipe has previously been lined. The installation procedure shall conform to ASTM F2599-11 "Standard Practice for Sectional Repair of Damaged Pipe by Means of an Inverted Cured-In-Place Liner". The cured-in-place pipe shall meet or exceed the minimum test standards specified by the American Society for Testing Methods as described in the most current edition of ASTM F1216 standard, most current edition. Acceptable CIPP spot repairs are LMK Performance Liner or approved equal.

- D. CIPP spot repairs shall be ambient cure and shall have a fiberglass mat consisting of two or more layers of 0/90 degrees bias woven fiberglass with a Trevara felt coating on one side and capable of carrying a two component, 100% solid epoxy or silicate base resin. Acceptable fiberglass CIPP spot repairs are Prime Line sectional lining spot repair or approved equal.

2.5 STYRENE REDUCING AGENT (IF APPLICABLE)

- A. The styrene reducing agent shall be StyRedux by Integrated Chemical & Equipment Corporation, or approved equal.
- B. The styrene reducing agent shall be a gelatin, water soluble, biodegradable, non-toxic, FDA approved powder and/or capsule. The styrene reducing agent shall be added in a calculated amount according to manufacturer's recommendations into the down-tube for water curing or directly into the water holding tank for steam curing.

PART 3 – EXECUTION

3.1 PRE-INTSTALLATION

- A. Examine the City's CCTV video of each pipe segment before starting work.

- B. Notify all property owners or businesses that discharge sewage directly to sewer being lined and whose service lateral will be affected by lining work, that their service will be temporarily interrupted during installation of CIPP liner. Deliver written notification to each such resident or business at least 72 hours in advance, giving the date, start time and estimated completion time for the work being conducted, and any restrictions on use of sewage system facilities including exact days and hours when sewer system cannot be used. Method of notification, and the text included in the notification, shall be approved by the City.
- C. Clean each length of pipe to be lined and shall dispose of all resulting material offsite as specified in Section 336070.
- D. The Contractor's project manager and/or superintendent shall review the City provided pre-rehabilitation inspection videos to confirm the quality of the videos, locations of lateral connections, and locations of point repairs to be performed. The City/Engineer will review pre-rehabilitation inspection videos to confirm locations of point repairs to be performed by Contractor. If an Inspector or Engineer is on site or immediately available, Contractor shall allow the Inspector or Engineer to view the pre-installation video to verify the pipe is ready for CIPP installation which includes proper cleaning, trimming protruding taps and mitigating and any significant infiltration.
- E. If the data is available, the City/Engineer will provide Contractor information on location of known active laterals and cleanouts; however, this list may not be interpreted as all-inclusive. Contractor shall be responsible for verifying active customer service connection prior to rehabilitation. Contractor shall compare service connections from CCTV video and compare with above ground measurements at approximate location of center of each house or building. Any discrepancies between CCTV data and above ground measurements of laterals shall be brought to attention of the City/Engineer for a determination of lateral reinstatements. If Contractor discovers an error or addition to the list provided, Contractor shall immediately notify Engineer for additional investigation. Upon completion of rehabilitation work, a list of all service laterals abandoned or reconnected as part of the work shall be submitted to the City. Compiled list can be in the form of post-inspection installation inspection logs and shall include the following information:
1. Location of each service lateral based on CCTV inspection logs. Location shall include both accurate distance measured from centerline of starting manhole as well as a notation (by clock-reference) of where on circumference of pipe, the service lateral connects.
 2. Status (Active or Inactive).
 3. Address of each customer and associated active lateral location.

- F. Prior to installation of CIPP lining, all service lateral connections protruding into main line by one half (1/2")-inch or more shall be internally cut or ground down flush with pipe wall with a robotic cutter specifically designed for this purpose. Internal cutter shall be capable of cutting unreinforced concrete pipe (CP), cast iron pipe, PVC, vitrified clay pipe (VCP), ductile iron pipe, and Orangeburg pipe. All materials / cuttings shall be removed from sewer and properly disposed of.
- G. Infiltration runners or gushers as defined by NASSCO PACP that are observed during the pre-rehabilitation CCTV shall be stopped by injecting a chemical hydrophilic grout as required in Section 336090 using a remote packer, unless otherwise approved by the City/Engineer. If the pipe is larger than 36", man-entry with hand-applied fast-setting epoxy can be performed to stop the infiltration.
- H. Maximum amount of time any home or business shall be without sanitary sewer service is 10 hours and not between 6:00 PM and 8:00 AM. Any service out longer than 10 hours shall be bypassed to a sanitary sewer at no cost to the City.
- I. Provide bypass pumping of sewage flows in accordance with Section 336081. Service connection effluent may be plugged only after proper notification to affected residence and may not remain plugged overnight. Installation of liner shall not begin until Contractor has installed required plugs or a sewage by-pass system and all pumping facilities have been installed and tested under full operating conditions including bypass of mainline and side sewer flows. Once lining process has begun, existing sewage flows shall be maintained, until resin/felt tube composite is fully cured, cooled down, fully televised and CIPP ends finished.
- J. Wastewater flows from existing sewers shall not be allowed to enter the new or rehabilitated facilities until the new or rehabilitated facilities have been cleaned and tested as required in the Contract Documents.
- K. Provide CIPP liner in full length of sewer as shown on work orders. Installation of CIPP liner shall be in complete accordance with applicable provisions of ASTM F 1216 or ASTM F 1743 and manufacturer's recommendations.
- L. Install a hydrophilic end seals at face of each manhole at all manhole penetrations per Paragraph 2.2 prior to inverting or pulling in uncured CIPP liner.
- M. If in the opinion of CIPP liner manufacturer and/or the City/Engineer, rate of infiltration in sewer segment is high enough to risk washout of resin, perform measures, as required, to minimize infiltration prior to installation,

including pre-liners, grouting, etc. If during pre-lining CCTV inspection, any infiltration runners or gushers (per NASSCO PACP®) are observed, Contractor shall submit, in writing for approval by the City/Engineer, methods and materials for mitigating any adverse impacts from the infiltration.

- N. Pressure gauges for the ends shall be digital pressure/vacuum gauges with a pressure range of 0 to 50 psi and $\pm 0.25\%$ test gauge accuracy.
- O. For pipes 18-in diameter and larger, install and use continuous temperature sensor strips. Provide the City's representative with access to the longitudinal temperature monitoring system data during the installation via digital data, web-based or other approved methodology and printed reports.

3.2 INTALLATION

- A. CIPP liner shall be installed via inversion using hydrostatic head or air pressure in accordance with ASTM F 1216 or ASTM F 1743 and manufacturer's recommendations or inserted through a manhole by means and methods required by the manufacturer. Hydrostatic head and/or steam pressure used during installation process shall be sufficient to hold liner tight to pipe wall; producing dimples at all service connections, and flared ends at two access manholes. Contractor shall closely follow the requirements in the submitted liner field curing reports, including the minimum inversion pressure, ideal head, maximum hot head and maximum cold head for each installation.
- B. If CIPP does not fit tightly against original pipe at its termination points, at no additional cost to the City, the full circumference of CIPP exiting host pipe shall be filled with a resin mixture compatible with CIPP, approved by CIPP manufacturer and the City/Engineer. There shall be no significant leakage of groundwater between existing pipe and CIPP at manhole connection or service lateral connections. Any leakage shall be removed and/or eliminated by Contractor at no additional cost to the City. Any infiltration found at manhole and/or service connections shall be eliminated by Contractor at no additional cost to the City. Any infiltration runners or gushers as defined by NASSCO PACP shall be stopped with chemical hydrophilic grouting as required in Section 336090.
- C. Fit heat source with monitors to accurately gauge temperature of incoming and outgoing water or steam supply. Place another such gauge between CIPP liner and pipe invert at downstream end to determine temperature during curing process. Temperature in CIPP during curing process shall be as recommended by resin manufacturer. Length of time for allowing curing process to be completed shall be of

duration recommended by manufacturer, during which time Contractor shall maintain required temperature throughout CIPP. Provide a written temperature data chart/curing log to the City's Representative for review to ensure that curing temperatures for resin meet manufacturer's recommendations.

- D. The full length from manhole to manhole of the installed resin-impregnated flexible felt tube CIPP liner shall be cured using circulating heated water or steam in accordance with ASTM F 1216 and manufacturer's recommendations or with UV light sources to affect desired cure throughout length of the tube, extending full length from manhole to manhole(s). Resin shall be cured into a hard impermeable pipe with minimum specified thickness, providing a structurally sound, uniformly smooth interior and tight-fitting liner within existing pipe. Cool-down procedures shall be in accordance with ASTM F 1216 and manufacturer's recommendations. The cool-down shall follow manufacturer's guidelines, be measured digitally to allow inspector to inspect or record, be linear, and be gradual; no super cooled air shall be allowed to be injected. UV cured CIPP shall not be permitted without written approval from the City/Engineer and after documentation has been reviewed that liner is compatible with all specifications and other related work including any lateral lining systems.
- E. For pull-in-place liners cured by UV light (ASTM F2019)
1. Fiberglass liner shall be cured with UV light sources at a constant inner pressure sufficient to maintain the liner tight against the existing wall of the pipe.
 2. The time, the rate of travel of the ultraviolet light assembly, light sources and the internal pressures shall all be recorded and as specified by the liner manufacturer. This segment curing data shall be submitted to the City/Engineer, along with the manufacturer's curing standards
- F. Contractor may install CIPP lining in multiple sewer segments at one time where possible. When installing CIPP lining in multiple sewer segments at one time, the top one-half of CIPP liner in intermediate manhole shall be neatly removed, leaving the invert in place, and void between CIPP liner and existing channel shall be filled with non-shrink grout. Manhole bench shall be reconstructed as required to provide a smooth transition to new CIPP liner.
- G. All cutting and sealing of CIPP liner at manhole connections shall provide watertight pipe and manhole seals. All cut edges of cured liner shall be thoroughly sealed with same resin as was used in liner. Catalyst or hardener used shall be compatible with resin/catalyst used

in liner previously, but shall not require an external heat source to begin exothermic reaction (curing). There shall be no leakage of groundwater into manhole between CIPP liner and existing sewer pipe and between existing sewer pipe and manhole wall.

- H. Continuous temperature monitoring systems are required for all 18-inches or larger sewer or any sized sewer in locations with significant known groundwater infiltration or if pipe is within 50 feet of stream, river or lake for liners being cured by heated water or steam. This system shall be installed at the invert of pipe and be installed per manufacturers recommended procedures. Temperature sensors shall be placed at upstream and downstream ends of reach being lined to monitor pressurized fluid's (air or water) temperature during curing process. To monitor temperatures inside tube, wall and to verify proper curing, temperature sensors shall be placed between host pipe and liner in bottom of host pipe (invert) throughout the reach to record the heating and cooling that takes place on the outside of liner during processing. As a minimum, sensors shall be spaced apart at intervals no greater than 20-feet for pipe sizes up to 15-inches in diameter; and no greater than 10-feet for pipe sizes 18-inches and larger. Additionally, sensors shall be strategically placed at points where a significant heat sink is likely to be anticipated. Monitoring of these sensors shall be by a computer that can record temperatures at this interface throughout processing of CIPP utilizing a tamper-proof database. Temperature monitoring systems shall be Zia Systems or Vericure by Pipeline Renewal Technologies.
- I. Prior to installing liner in host pipe, temperature monitoring system's proper functioning shall be confirmed by hooking it up to computer and seeing that sensors are reporting their ambient temperatures. No more than two sensors in sequence can be found faulty during this test. If three or more sensors in sequence are discovered faulty, a new sensor array shall be provided and installed at no extra cost to the City; and the new array shall be again tested for its proper functioning.
- J. Curing of resin system shall be as per recommendations of CIPP system manufacturer of CIPP product. Temperatures achieved and duration of holding the liner at those temperatures shall be per System Manufacturer's established procedures. If any sensor or sensors along reach indicates that there is a localized issue with respect to achieving proper curing per written installation procedure, Contractor shall address the issue prior to acceptance of the liner. Sensor array's database required in above paragraph shall have an output report that identifies each sensor by its station in reach and shows maximum temperature achieved during processing of CIPP and time sustained at or above Manufacturer's required curing temperature at each sensor.

The temperature of the liner shall be recorded until the liner has completed the cool-down process.

- K. If cool-down is to be accomplished by introduction of cool water into an inversion standpipe to replace water being drained from a small hole made in downstream end, the hardened liner shall be cooled down to a temperature below 100 degrees F (38 degrees C), or ambient temperature, whichever is lower, before relieving static head in inversion standpipe. Contractor shall take measures to ensure that, in release of static head, a vacuum will not be produced that could damage the newly installed CIPP liner.
- L. Incorporate mitigation measures to control styrene odors during installation and curing of the liner. If any styrene odor complaints occur on the jobsite, the Contractor shall have means and methods to immediately mitigate the issue.
- M. Vent and/or exhaust noxious fumes or odors generated during and remaining after curing process is completed. This process shall remain in place at all manholes, laterals, etc., until noxious odors have dissipated to an acceptable level in accordance with OSHA requirements for materials used and there is no more air pollution or potential health hazard left to general public or construction workers.
- N. Coordinate with the City on where curing water can be discharged.
- O. Provide piping, pumps, valves, and other equipment to discharge curing water.
- P. After the installation of the first 1,000 linear feet of CIPP lining, no additional CIPP lining shall be installed until acceptance testing demonstrates that the product meets all thickness and strength properties specified herein. Once the City/Engineer has reviewed and approved the test results, the remainder of the lining installation may resume.

3.3 REINSTATEMENT OF SERVICES

- A. After new CIPP has been cured and completely cooled down, if applicable, Contractor shall reconnect existing service laterals as designated by pre-installation television inspection report generated by Contractor. This shall be done without excavation but from interior of pipeline by means of a television camera and a remote cutting device that reestablishes service connection to not less than 90 percent or better of original diameter and to a maximum of 100 percent of original diameter; overcut connections are not acceptable. All openings shall be clean and neatly cut and the cut shall be buffed with a wire brush to

remove rough edges and provide a smooth finish. Bottom of openings shall be flush with bottom of lateral pipe and shall have smooth edges with no protruding material capable of hindering flow or catching debris. All service lateral connections shall be sealed per section 2.3 of this specification.

- B. Coupons shall be removed from laterals by any means possible including entering homes to flush the material via access from cleanout.
- C. Excess resin that builds up and hardens in and around the lateral connections(s) must be removed and/or ground down prior to acceptance of the re-instatement. Contractor will be required to supply an extended lateral cutter bit to reach resin buildup beyond standard length bits.
- D. Inactive service laterals identified in Drawings and elsewhere in the Specifications will be abandoned by not reopening the service connection after installation of the cured-in-place pipe liner. If necessary, because of uncertainty of matching each tap in the sewer with each property, the Contractor shall dye test to verify if a service connection is active at the direction of the City/Engineer.
- E. Service laterals that were determined to be inactive during CCTV inspection will be abandoned by not reopening service connection after installation of cured-in-place pipe liner. All lateral connections shall be identified as repaired or abandoned in post rehabilitation CCTV (to be performed by the Contractor). Contractor to provide image file for all lateral locations along a given pipe segment. Contractor to provide image file at location of lateral even if lateral connection has been abandoned.
- F. Contractor shall not open abandoned/capped service connections except at the City's/Engineer's direction. If an abandoned service connection is opened without the City's/Engineer's approval, Contractor shall perform an internal spot repair to close connection, at no additional cost to the City.
- G. Contractor shall provide a fully operational backup device for reinstating service laterals. If there is any doubt about live vs. dead service based upon above property comparison with pipe connections, then Contractor shall verify with dye testing. If for any reason remote cutting device fails during reinstatement of a service lateral, Contractor shall immediately deploy standby device to complete reinstatement. Backup equipment shall be onsite throughout reinstatement process.
- H. For service lateral reconnections and/or renewals to be made by

excavation methods, InsertaTees may be used for solid wall pipes having a 0.36-inch or greater wall thickness. InsertaTees shall be "Fatboy" type with hub manufactured of SDR 26 PVC material incorporating a 360-degree integral stop on the hub surface and exceeding ASTM F1336 Section 10.3 Pipe Stop Load Support Test, or approved equal. Romac type saddles shall be used for pipes having a wall thickness thinner than 0.36-inches. Saddle connections shall be seated and sealed to new CIPP using grout or resin compatible with the CIPP. Other services shall be renewed by trenchless lateral lining.

- I. All existing break-in and/or hammer-tap (break-in) laterals shall be cut and sealed per Paragraph 2.03 of this Section to provide a watertight connection between the lateral and the lined pipe. Contractor shall submit a method for cutting and sealing of each lateral.

3.4 FIELD TESTING AND ACCEPTANCE

- A. Field acceptance of CIPP lining shall be based on the City's and Engineer's evaluation of installation, including a review of the CIPP liner curing data, review of post-rehabilitation CCTV inspection data (post-rehabilitation CCTV to be performed by the Contractor), and review of certified test data for installed CIPP liner, including air testing. All CIPP sample testing, and repairs to installed CIPP as applicable, shall be completed before final acceptance, meeting requirements of these specifications and documented in written form.
- B. For every 1,000 linear feet of CIPP liner installed for the first 5,000 linear feet, the Contractor shall perform sampling and testing to determine the installed CIPP liner flexural properties and CIPP liner thickness. After the first five (5) test results have been collected and all have passed the minimum standards per the specification, the City may require collecting random samples up to one sample per 5,000 linear feet for testing. Frequency of testing may be reduced as approved by the City/Engineer after sufficient tests are performed to verify CIPP liner design, production and installation procedures. Likewise, frequency of testing may be increased by the City/Engineer and performed by Contractor at no additional cost to the City when required tests show that installed CIPP liner does not meet specifications. If a test is not passed, Contractor shall re-evaluate liner thickness design to determine if installed physical properties meet minimum design requirements; if it does not, liner shall be replaced or relined with approval from the City/Engineer at no additional cost to the City.
- C. Testing shall be performed by an independent testing laboratory certified by the American Association for Laboratory Accreditation (A2LA). Contractor shall submit to the City/Engineer the name and location of independent testing laboratory, a certified statement from

laboratory indicating that they are independent from and not associated with Contractor in any way, and A2IA certification for independent testing laboratory.

NOTE: This testing to be paid by the Contractor.

- D. All expenses for sampling and testing of installed liner shall be paid for by the Contractor. Chain of custody for test samples shall be through City's representative. Cost of all manufacturer's testing to qualify products furnished to project site shall be the responsibility of Contractor.

NOTE: Note that restrained samples may not be practical for pipes larger than 18-inches in diameter; in this case, plate samples are allowed.

- E. Sampling and testing of the installed CIPP liner shall conform to ASTM F 1216 and the following requirements:

1. Remove one restrained sample of installed CIPP liner at least 18-inches in length. Sample shall be captured by installing CIPP liner through a section of PVC pipe (same diameter as existing sewer diameter) within the most downstream manhole of installation and at all intermediate manholes if multiple sewer segments are lined at same time. Contractor may elect to cut the sample longitudinally and provide 1/2 the sample to City's representative or inspector for direct shipping to laboratory and keep other half of sample for additional testing if necessary.
2. CIPP liner thickness shall be measured in accordance with ASTM D 5813. Flexural properties shall be determined in accordance with ASTM D 790. Contractor shall label and date all samples and provide to inspector or City's representative same day of installation for shipping to independent testing laboratory. The City/Engineer shall be copied on all transmittals to independent testing laboratory. Testing results shall be submitted to Engineer or City within 30 days after installation of CIPP liner or payment will be withheld.

NOTE: For structural and thickness tests, if tests are within 90 percent of specification payment shall be 90 percent of bid price per item. If tests are between 75 percent and 89 percent, then 75 percent of price shall be paid. If below 75 percent, Contractor shall reline segment with a new liner that meets structural requirements.

3. After recalculations performed in accordance with Paragraph 3.4, B above, any CIPP lining that does not meet new calculated thickness requirements shall be corrected by Contractor in a manner approved by

the City/Engineer at no additional cost to the City. The City's decision on how to correct deficient CIPP liner installations shall be final. Options for correcting deficient CIPP liner installations that will be considered by the City include the following: removal of existing CIPP liner and re-lining the sewer, open-cut replacement of sewer from manhole to manhole, re-lining sewer with existing CIPP liner in place.

- F. The Contractor shall perform a post-rehabilitation CCTV inspection of all sewers rehabilitated using CIPP lining methods. Post-rehabilitation CCTV inspection shall be performed following installation of CIPP liner and reinstatement of all active service laterals. The Contractor's project manager and/or superintendent shall review the post-rehabilitation inspection videos to confirm the quality of the videos and of the installed CIPP. If it is determined that any repairs are needed at any segment, a new CCTV inspection shall be performed of the entire segment(s) after the repairs have been completed.
- G. Liner Installation Inspection - A visual inspection of the liner will be considered acceptable if liner shows no significant, wrinkles, lifts, ridges, splits, cracks, delaminations, flats, dry spots, pinholes, shrinkage, foreign inclusions, crazing, reverse curvatures, or other type of defects in the CIPP lining. Significant defects shall be defined as those listed in paragraph 1.6 of this section; and/or any defect that may create a maintenance issue in future such as inhibiting CCTV cameras or allowing solids to get caught on defect, and/or any defect that appears to reduce long-term structural strength or stability of pipeline. Longitudinal wrinkles/fins in height up to a maximum of five percent of inside diameter of host pipe or one (1")-inch, whichever is smaller, may be acceptable and shall be evaluated by Engineer for acceptance on a case by case basis. Defective lining shall be repaired or replaced at no additional cost to the City. If during removal process, the pipe is damaged, Contractor shall perform a point repair at Contractor's own expense.
- H. The Contractor shall provide post CCTV Video Inspection and Submittals:
 - 1. Removal of wrinkles or fins deemed significant at the discretion of the City, shall be removed using a milling head, relined or replaced by the Contractor as directed by the City at no additional cost. There shall be no evidence of other major defects in the CIPP lining.
 - 2. Longitudinal shrinkage of the CIPP liner's length, of more than three (3") inches from the face of the manhole shall be repaired with a fiberglass reinforced CIPP spot repair per Paragraph 2.4 of this Section at no cost to the City.

3. Circular shrinkage shall be measured by the Contractor via man entry to try to insert a 1/16" thick ruler or similar into any gap more than eight (8") inches past the MH wall. The Contractor shall document these measurements with digital photos that shall be submitted to the City/Engineer for approval. Circular shrinkage shall be repaired per manufacturer recommendations at no cost to the City.

- I. The CIPP liner shall be watertight. Groundwater infiltration through the wall of the liner shall be zero.

NOTE: Epoxy sealing by hand may be allowed for pipes 30-inches in diameter or larger within the pipe and hand applied for any size sewer if within 2 feet of the manhole wall.

- J. All service connections shall be opened to a minimum of 95 percent and a maximum of 100 percent of opening so that a new lateral or lateral lining can be installed properly. Any overcuts more than 105 percent shall be repaired with hydrophilic seal hat connection, CIPP liner or other approved method by the City/Engineer.

- K. All coupons and excess resin shall be removed from reinstated service laterals prior to acceptance of CIPP lining.

- L. All pipe-to-manhole connections shall be watertight and free of infiltration.

NOTE: Either an air test or hydrostatic test is required. Air tests are typically performed on steam cured liners and hydrostatic exfiltration test are typically performed on water installations. In the case of high groundwater installations, an infiltration test is acceptable. In the case of pipes larger than 36-inch diameter in no groundwater, it is very hard to perform an exfiltration or infiltration test. ASTM F 1216 (item 8.2) allows 50 gal/day/in diam./mile and 1 psi drop in time and also has an allowance for leakage. However, for larger CIPP installations that after the liner has cured it is recommended to use the downtube of the upstream CIPP inversion to monitor the water level before the downstream end is opened up to confirm that no water is being lost.

- M. When CIPP is installed using pressurized air, Contractor shall perform an air-test per Section 336065 in presence of the City's representative immediately following cool down and prior to lateral reinstatement. Otherwise, hydrostatic testing (exfiltration test) of completed liner shall be performed after liner curing and cool down in accordance with ASTM F 1216. Hydrostatic testing shall be performed prior to reinstatement of active services.

NOTE: For large diameter pipes (36 inches or greater), an exfiltration test may be allowed.

- N. Installed CIPP shall be tested for water tightness using an exfiltration test. Maximum allowable leakage shall be 50 gallons per day per diameter inch of pipe per mile in accordance with ASTM F 1216.

NOTE: For projects in which manholes will also be rehabilitated, the following item (item O) should be deleted. For projects in which manholes are not being rehabilitated, the hydrophilic seals are sufficient enough to prevent any infiltration migrating to the manhole, and installing an additional seal at the manhole wall will add price and may also prevent an inspector to confirm that the hydrophilic seals have been installed by the contractor. The end of the pipe at the manhole wall may be required to be covered, in which case item O can be included.

- O. After all installations are complete, inspected, post-construction CCTV has been reviewed and approved by the City/Engineer, and all work is satisfactory to the City/Engineer, contractor shall cut and trim the new liner at each manhole wall. Seal liner to manhole wall with a sealant material per Paragraph 2.2 of this Section.

3.5 MEASUREMENT AND PAYMENT

A. PAYMENT

1. Payment for CIPP pipe liner shall be made at Contract unit price per linear foot for each size as stated in the Bid, complete in place, in accordance with Contract Documents. Payment will be based on actual number of feet installed, as measured by Engineer. Pipe will be measured horizontally, on surface, from center-to-center of manholes to nearest 0.1-foot, unless another method is approved by the City/Engineer. Payment for service lateral reinstatement and service lateral sealing will be made at Contract unit price per lateral reinstated and/or sealed.
2. Price paid per linear foot for pipe liner shall include full compensation for furnishing labor, materials, tools, equipment and incidentals necessary to provide CIPP liner, manhole seals, traffic control, sewage bypassing, control of water, manhole connections, preconstruction inspection, cleaning, disposal of sewer cleaning materials, final inspection, perform leakage testing of the CIPP pipe liner, post-construction inspection, protection of existing utilities and adjacent property, and all required surface restoration work and traffic control, complete in place, as shown in Drawings and specified herein.

END OF SECTION

SECTION 336085

SEWER LINE JOINT TESTING

PART 1 - GENERAL

1.1 SCOPE

- A. After cleaning and simultaneous with television inspection, joint testing shall be performed on all sewer joints. Joint testing shall be performed before and after sealing except where joints are found to have visible infiltration. Visible infiltration points shall be sealed without pre-testing and shall then be tested to ensure that the joint has been properly sealed.
- B. Sewer line joint testing and sealing shall not be performed on any sewer line until other rehabilitation measures (if any) specified for that particular line have been completed. This requires that any pipe replacement and/or repair of low spots must be completed before the remainder of each line is tested and sealed.
- C. Joint testing shall be accomplished by utilizing a void pressure monitoring system. Generally, this shall be accomplished by applying a positive pressure to each joint, allowing time for the system to stabilize and measuring the amount of pressure decay over a given length of time.
- D. Use caution at all times so as to prevent potential contamination of the City of North Port's Potable Water System. Cross connections will require a backflow preventer approved by the City of North Port.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. The equipment used shall consist of a television camera and a hydrostatic joint testing device that can be pulled through the sewer lines. Testing shall be accomplished by isolating the joint or area to be tested with the testing device or devices and applying a positive hydrostatic pressure into the created, isolated void area. Pressure readings shall be displayed on an above ground gauge with a range of 0 to 10 psi.

PART 3 – EXECUTION

3.1 PERFORMANCE

- A. Existing hydrostatic head shall be established by inserting a pipe probe into the backfill material at the crown of the pipe at the downstream manhole and applying pressure until equilibrium is attained. This is the back pressure that all test pressures for that section of line shall be increased by.
- B. A precise pressure of four (4) psi above the existing hydrostatic head shall be applied to each joint. Once the pressure of four (4) psi above hydrostatic head at the joint has been recorded on the gauge above ground, the water flow shall be stopped and the pressure gauge observed for 30 seconds. Should the pressure on the joint drop 0.5 psi or more within 30 seconds, the joint will have failed the test. Joints that fail the test shall be sealed as specified herein and re-tested by the same procedure until the joints pass the pressure test.

END OF SECTION

SECTION 336086

CURED IN PLACE SPOT REPAIR

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all materials, labor and equipment and perform all incidental work necessary to install and test cured-in-place spot repairs (CIPSR) as shown on the Drawings.

1.2 RELATED WORK

- A. Television inspection is included in Section 336060.
- B. Sewer line cleaning is included in Section 336070.
- C. Cured-in-place pipe lining is included in Section 336084.

1.3 SUBMITTALS

- A. Submit within 15 days of the Effective Date of the Agreement, the name of CIPSR supplier and a list of materials to be furnished.
- B. Provide two submittals of certified test reports to confirm that CIPSR materials have been manufactured and tested in accordance with the ASTM Standards specified herein.
 - 1. Within 15 days of the Effective Date of the Agreement, submit test reports for the materials to be used for this work. Test results shall be the manufacturer's standards for acceptance of field fabricated and installed CIPSR.
 - 2. Prior to the installation of any CIPSR, make test specimens from the materials to be utilized for this work. Make sufficient number of specimens for conducting the referenced testing. Specimens shall be cut from the resin-impregnated patch prior to insertion into the pipe.

1.4 REFERENCED STANDARDS (LATEST REVISION)

- A. ASTM International
 - 1. ASTM D543 - Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents.

2. ASTM D638 - Standard Test Method for Tensile Properties of Plastics.
3. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
4. ASTM D2412 - Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading.
5. ASTM D2990 - Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics.

B. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

1.5 QUALITY ASSURANCE

A. The Contractor or subcontractor to furnish and install CIPSRs shall be fully qualified, experienced and equipped to complete the work in a timely and satisfactory manner. Submit the following information to the Engineer for review and approval before CIPSR work is performed.

1. The number of years of experience in performing this type of specialized work.
2. Name of the CIPSR manufacturer and supplier for this work and previous work performed. The Contractor shall be certified by the manufacturer to install the CIPSR patches.
3. A list of all municipal installations performed over the past 5 years along with the contact name, telephone number, and brief description of work performed.
4. The City reserves the right to disapprove the use of the CIPSR Contractor based on the submitted qualifications.

B. All CIPSR spot repairs, regardless of pipe size or length, shall be furnished, fabricated and installed by a single manufacturer.

C. As directed by the Engineer, replace all CIPSRs that utilized materials or methods of installation other than that approved. Remove and replace the CIPSR section or replace the affected pipe with new pipe at no cost to the City.

1.6 GUARANTEE

A. All CIP spot repairs shall be guaranteed by the Contractor for a period of

5 years from the date of acceptance. During this period, all defects in the CIPSR's shall be repaired in a manner satisfactory to the Engineer or the affected pipe shall be removed and replaced with new pipe at no additional cost to the City.

PART 2 - PRODUCTS

2.1 FIBERGLASS/POLYESTER FELT REPAIR MATERIAL

- A. The CIPSR shall be a resin impregnated fiberglass/polyester felt sleeve which is wrapped around an inflatable packer and positioned in the sewer to be rehabilitated and cured in place by circulating hot water to cure the resin. Ambient curing shall not be allowed.
- B. The CIPSR sleeve shall be fabricated from a minimum of two layers of fiberglass with a single layer of polyester felt sandwiched between the fiberglass layers. The material shall be sewn together with multiple polyester threads using zigzag stitching spaced evenly over the full width of the material. The three-layer composite reinforcement material shall have a minimum mass of 40.6 oz/sq. yd with a thickness not less than 0.24-in. Fiberglass alone shall not be acceptable.
- C. The fiberglass shall be woven roving having a minimum weight of 24 oz/sq. yd and shall be made of "E" glass coated with a sizing compatible with the resin being used.
- D. The polyester felt shall be needle punched and have a minimum weight of 16.5 oz/sq. yd.
- E. The resin shall be a two-part epoxy type liquid thermosetting resin suitable for the intended use as well as the proposed curing method. The diluted epoxy resin shall contain at least 60 percent of bisphenol A, 10 to 20 percent of bisphenol F with the remainder of the mixture being a diluent. Epoxy resin shall be D.E.R. (R) 353 by the Dow Chemical Company; ME 948 by Micon or equal.
- F. The epoxy resin shall be brought on site in the resin manufacturer's original containers. Each container shall be clearly labeled as to contents and product data. The resin shall be stored, mixed and applied in accordance with the manufacturer's recommendations.
- G. The CIPSR shall provide a service life of 25 years and shall have, as a minimum, the initial and long-term properties listed below.

MECHANICAL PROPERTY	INITIAL	LONG-TERM
Flexural Strength	8,000 psi	-----
Flexural Modulus of Elasticity	280,000 psi	140,000 psi
Tensile Strength	5,000 psi	-----
Tensile Modulus of Elasticity	280,000 psi	140,000 psi

- H. When cured, the CIPSR shall form a continuous, tight-fitting, hard, impermeable liner which is chemically resistant to any chemicals normally found in domestic sewage. The CIPSR shall have a suitable membrane coating for protection of the interior surface and to provide a uniform, smooth flow surface. No membranes or plastic coating shall be allowed between the repair patch and the pipe wall.
- I. The fiberglass/polyester felt sleeve shall be fabricated to a size that will tightly fit the sewer being rehabilitated after being installed and cured. The transition from the patch to the existing pipe must be smoothly tapered.
- J. The CIPSR shall be by Avanti International of Webster, TX or equal.
- K. Thickness of the cured liner shall be as recommended by the manufacturer but shall not exceed 1/4-in when cured unless authorized in writing by the Engineer.
- L. Spot repairs shall have a minimum length of 3-ft and shall not exceed 30-ft in length. CIPSR lengths shall extend a minimum of 1-ft beyond the pipe defects at each end of the repaired section. Length of each required repair shall be verified in the field prior to installation.
- M. CIP spot repairs shall not begin or end at a service connection or pipe joint.
- N. All cured-in-place spot repairs shall be one piece. Separately fabricated or installed CIPSRs utilizing overlapped or "butted" ends shall not be acceptable.

PART 3 – EXECUTION

3.1 INTSTALLATION

- A. Clean each length of pipe to be lined and dispose of all resulting material as specified in Section 336070.
- B. All obstructions in the sewer which may impede the insertion of the

liner shall be removed by the Contractor. Contractor shall verify location of any obstruction.

- C. Conduct a television inspection of each length of pipe after it is cleaned as specified in Section 336060. Document the location of all active service connections and verify the lengths of repairs. A copy of these videos shall be submitted to the Engineer and provided to the City.
- D. Notify all property owners who discharge sewage directly to the sewer being repaired that their service will be interrupted while the CIPSR is being inserted, cured and active service connections reopened. Notify individual property owners at least 48 hours in advance, giving the date, start time and estimated completion time for the work being conducted.
- E. Furnish bypass pumping of sewage flows where the rehabilitation work is being performed. Bypass pumping shall be conducted in conformance with the requirements of the technical specifications
- F. The CIPSR material shall be measured, cut and impregnated with epoxy resin in the field to the measurements determined from the videotape inspections. The installation and curing of the CIPSRs shall be in complete accordance with the manufacturers' specifications and a representative of the manufacturer shall be present during the first day of installation.
- G. The installed spot repair shall be cured by circulating hot water through the resin impregnated patch. Ambient curing shall not be allowed.
- H. The inflatable element and hydrostatic pressure used during the installation process shall be sufficient to tightly hold the CIPSR to the existing pipe wall, producing dimples at all service connections and squeezing surplus resin into any cracks in the pipe. This pressure shall be great enough to overcome or prevent infiltration from entering the existing pipeline during the curing process.
- I. The Contractor shall ensure that the shroud covering the packer is completely removed from the repaired pipe.
- J. Where CIPSRs connect to existing manholes, the repair shall create a watertight seal at the pipe connection and into the trough. All cut edges of the cured liner shall be thoroughly sealed with the same resin as was used in the CIPSR materials.
- K. Reestablish all the existing service connections on each length of sewer following patching. The service connections shall be reestablished per Section 336084 and opened from inside the sewer by

means of a cutting device controlled by a closed-circuit television camera. All cut out material shall be flushed out of the sewer, removed out of the sewer so as not to end up in a lift station.

- L. Each service connection shall be cut completely open and shall have smooth edges with no protruding material capable of hindering flow or catching and holding solids contained in the flow stream.
- M. Following installation of the spot repairs and reopening the active service connections, conduct a second video inspection of the completed work. This video, along with the video made in Paragraph 3.1C above shall become the property of the City.

3.2 FIELD TESTING AND ACCEPTANCE

- A. Field acceptance of all CIP spot repairs shall be based on the Engineer's/City's evaluation of the installation and curing data along with review of the TV videos and manhole inspections.
- B. Groundwater infiltration of CIPSR shall be zero.
- C. All active service connections shall be open and clear.
- D. There shall be no dry spots, voids, lifts, delamination or any other type defect in the CIPSR.
- E. Defective CIPSRs shall be removed and replaced with new CIPSRs. If the replacement CIPSR is not satisfactory to the Engineer or City, then remove the entire section of pipe being rehabilitated and replace it with new PVC pipe at no additional cost to the City.

END OF SECTION

SECTION 336090

GROUTING LATERAL CONNECTIONS

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required to test, grout and retest all sewer services. Service connection cleaning, testing and grouting shall be as described in this Section. All equipment shall enter the service connections from within the main sewer.
- B. The annular space between host pipe and liner as well as the first joint within 18 inches of the service connection point shall be sealed with chemical grout specified in this Section.

1.2 QUALITY ASSURANCE

- A. Sealing shall be performed by a crew under the direct supervision of a superintendent who has a minimum of two years documented experience in the sealing procedures as specified herein and as considered standard in the sewer rehabilitation industry. Submit documentation of this experience with references for approval prior to the start of work.

PART 2 - PRODUCTS

2.1 DESCRIPTION OF WORK

- A. Clean (including roots, etc.), grout and test each service connection as required. Furnish and use such equipment as is necessary to conduct all of the work specified in this Section (except protruding taps and broken pipe replacement) from inside each service connection. Access to each service connection shall be from within the main sewer from the nearest sewer manhole. No access allowed from private properties.

2.2 SEALING MATERIALS

- A. General
 - 1. Mixing, handling, and application of chemical sealing materials shall be in strict accordance with the manufacturer's recommendations.
 - 2. While being injected, the chemical sealant must be able to react/perform

in the presence of water.

3. The cured sealing material must prevent the passage of water through the pipe joint and the annular space to a distance of 18 inches into the lateral. The sealing material must withstand submergence in water without degradation, remain flexible after curing, and must be able to withstand freeze/thaw and wet/dry cycles without adversely affecting the seal.
4. The cured sealant must be chemically stable and resistant to acids, alkalis and organics normally found in sewage, and must not be biodegradable.
5. Residual sealing materials must be easily removable from the sewer line to prevent reduction or blockage of sewage flow.
6. Handling, formulation and storage of the sealing gel compound shall be in strict conformance with the manufacturer's recommendations. The uncured gel shall be delivered to the site in unopened containers, with the date of manufacture clearly indicated. No uncured gel manufactured more than six months prior to the date of application shall be utilized. Any uncured gel compound determined to be more than six months old shall be immediately removed from the site. Once a container of uncured gel has been opened it shall be used as soon as practically possible. If the container of gel is not used within 24 hours of being opened, ensure that the gel has not been contaminated. Any contaminated gel shall be removed from the site and disposed of.

B. Acrylic base gel chemical sealing material shall have the following characteristics:

1. A minimum of 10% acrylic base material by weight in the total sealant mix. A higher concentration (%) of acrylic base material may be used to increase strength of set during injection.
2. The ability to tolerate some dilution and react in moving water during injection.
3. A viscosity of approximately two (2) centipoise, which can be increased with additives.
4. A constant viscosity during the reaction period.
5. A controlled reaction time from five (5) seconds to six (6) hours.
6. The ability to increase mix viscosity, density, and gel strength by the use of additives.

7. Acrylic base gel chemical sealing material shall be Avanti AV-118 or equal.

C. Urethane base gel chemical sealing material shall have the following characteristics:

1. One part urethane prepolymer thoroughly mixes with between five (5) and ten (10) parts of water weight. The recommended mix ratio is one part urethane prepolymer to eight (8) parts of water (11% prepolymer).
2. A liquid prepolymer having a solids content of 77% to 83%, specific gravity of 1.04 (8.65 lbs./gal.) and a flash point of 20 degrees F.
3. A liquid prepolymer having a viscosity of 600 to 1200 centipoise at 70 degrees F that can be pumped through 500 feet of hose with a 1000 psi head at a flow rate of one (1) ounce per second.
4. Water used to react the prepolymer shall have a pH between 5 and 9.
5. A cure time of 80 seconds at 40 degrees F, 55 seconds at 60 degrees F, and 30 seconds at 80 degrees F, when one (1) part prepolymer is reacted with eight (8) parts of water only. Cure time shall be adjustable by the use of additives to the reaction water.

D. Icoset shall be added to all chemical grout installed under this contract. The application shall be in accordance with the manufacturer's recommendations.

E. Chemical grouts shall contain no acrylamide.

F. A representative of the grout manufacturer shall be on site for one day at the start of the project to assure that all requirements are met.

PART 3 – EXECUTION

3.1 GENERAL

A. Prior to sealing the connection, the Contractor shall thoroughly clean the interior of the lateral of debris and foreign matter. Cleaning is to be adequate for seating a lateral packer in the mainline and inserting and seating an inflatable sealing bladder in the lateral. The lateral shall be cleaned of obstructions and roots on the length to be sealed.

B. The Contractor shall be prepared to bypass pump the sewage flow as part of his operation where the sealing procedures require such diversion. Where the sealing equipment is designed to allow the passage

of flow, the flow shall be limited to that as recommended by the equipment manufacturer.

- C. The service lateral testing and grouting shall be accomplished by first testing the service lateral joints followed by grouting of all service laterals. Each service lateral, which has been sealed, shall be retested to ensure the effectiveness of the work. Any service laterals, which fail, shall be resealed and retested until it passes the test before moving on to the next service lateral. Testing of joints which are visibly leaking infiltration will not be required.
- D. The equipment shall consist of a closed-circuit television (CCTV) system and a sealing packer device along with the necessary chemical sealant containers, pumps, controls, regulators, valves, hoses, etc. The sealing packer shall be so constructed that it can straddle four (4") to six (6") inch diameter service connections in eight (8") inch to ten (10")-inch main sewer lines. When properly positioned and with the end elements inflated, an inflatable inversion sealing tube shall be extruded up the service lateral thereby isolating a portion of the service lateral containing one or more pipe joints for testing or sealing. The pumping unit, metering equipment, and the packer device shall be designed so that proportions and quantities of materials can be regulated in accordance with the type and size of the leak being sealed.
- E. Testing shall be conducted by properly positioning the packer device in the main sewer line with the inversion tube extruded into the service lateral and performing an air test. This test shall be accomplished by applying a positive air pressure equal to one half pound per ft (1/2 lb/ft) of main sewer line depth into the created void area between the packer device and the extended end of the inversion tube, but not to exceed ten (10 psi) pounds per square inch. After the required test pressure has been displayed on the test meter above ground, the application of the air pressure shall be stopped and a 20 second test period shall commence. The test pressure meter shall be observed during the 20-second test period and should the pressure drop exceed 50 percent of the test pressure, the service lateral shall have failed the test and shall be sealed. Should it not be possible to develop the required air test pressure, then the service lateral shall also have failed the test and shall be sealed.
- F. All lateral service lines shall be sealed internally by the use of the packer device. Either immediately following the air test or after the packer device has been properly positioned in the main line with the inversion tube extended into the service lateral, the lateral shall be sealed by the injection of the chemical sealant. The chemical sealant shall be injected through the packer device into the annular space between the inversion tube and the service lateral. The injection of chemical sealant shall continue until the chemical fluid back pressure is sufficient to ensure the

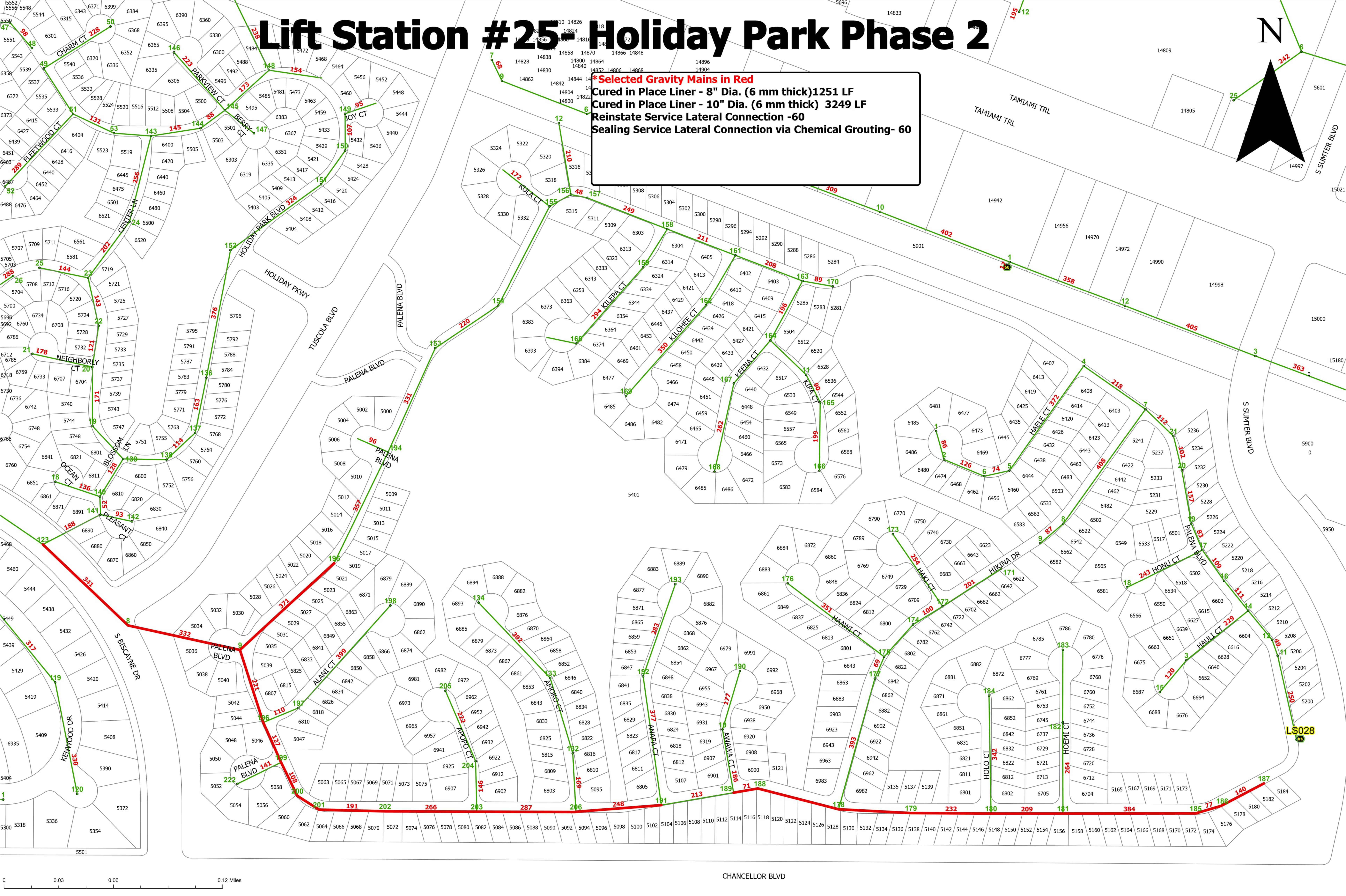
complete sealing of all the defects along the length of the inversion tube. However, when the effective quantity of grout pumped exceeds one (1) gallon per foot of sealing distance plus three (3) gallons it will be suspected that there is unseen voids outside of the pipe and the applicator shall try to build grout dams by repetitively pumping and curing the grout until the area is dammed off and the refusal pressure is met. The amount of chemical per pump stroke shall be measured from time to time and then the number of pump strokes can be used to measure the amount of chemical delivered to each lateral

- G. Upon completion of the sealing operation, the service lateral shall be retested to ensure the effectiveness of the work. The retesting shall be accomplished using the same procedures previously described. Should the service lateral fail to pass the test, it shall be resealed and retested until the test requirements can be met.
- H. After the service lateral has been successfully sealed and retested the following procedures shall be performed to ensure that the sealing operation did not block the service lateral.
 - 1. The inversion tube shall be removed from the lateral.
 - 2. The packer and elements shall remain inflated or be reinflated.
 - 3. Air shall then be introduced into the service lateral line.
- I. If during the injection of the air, no pressure build up is recorded on the pressure gauge, the service lateral shall be considered free flowing. However, should air pressure build up indicating a partial or total blockage of the lateral it shall then be cleaned to restore proper flow.
- J. Residual sealing materials that extend into the pipe, reduce the pipe diameter, or restrict the flow shall be removed from the joint. The sealed joints shall be reasonably flush with the existing pipe surface. It is the responsibility of the Contractor to verify that the sealing of laterals did not restrain the flow and to remove any grout which would restrain flow. Lateral flow shall be verified after the sealing of each lateral. With the lateral being viewed with the pan and tilt camera, an attempt is made to obtain a water flush by the occupant. If the flow seems abnormal, it is assumed that the building sewer is blocked with grout and must be cleared
- K. Extreme caution shall be utilized during the testing and sealing operations in order to avoid damaging the existing sewer. If any damage occurs, it shall be repaired to the satisfaction of the Engineer or City with no additional cost to the City.

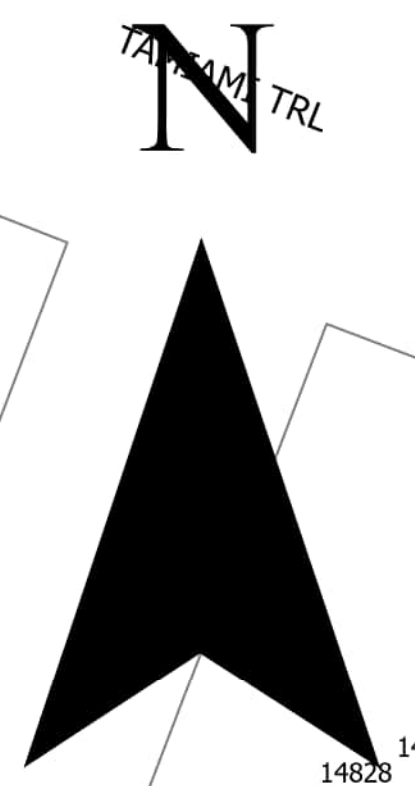
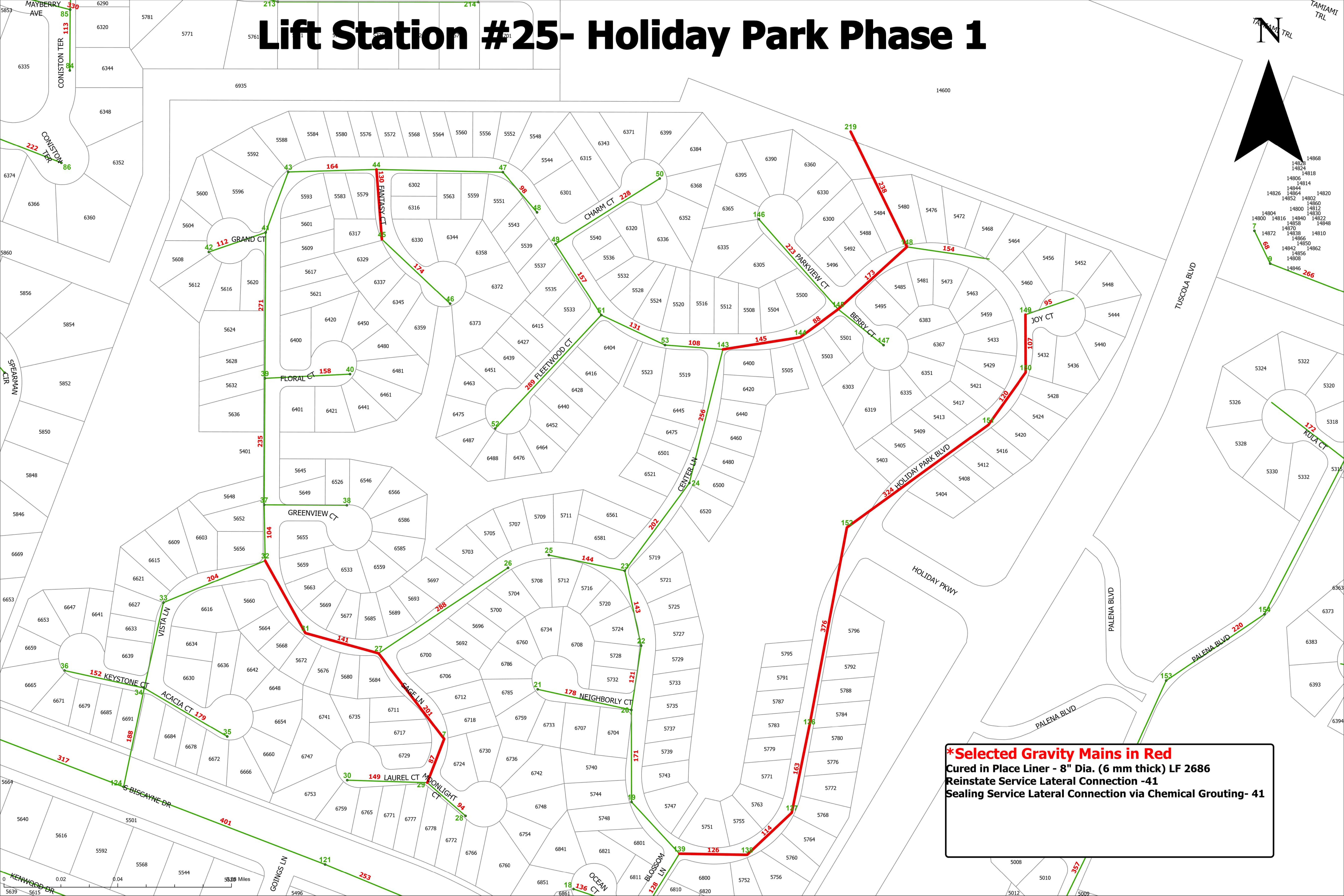
- L. After the work is completed, the Contractor shall perform a CCTV inspection of each lateral connection sealed and provide the City with a tape and written log and verification of each sealed connection test, retest and acceptance. The videos shall be provided on a portable hard drive device to be retained by the City.

END OF SECTION

Sealing Service Lateral Connection via Chemical Grouting- 60



Lift Station #25- Holiday Park Phase 1



***Selected Gravity Mains in Red**
Cured in Place Liner - 8" Dia. (6 mm thick) LF 2686
Reinstate Service Lateral Connection -41
Sealing Service Lateral Connection via Chemical Grouting- 41



City of North Port
FINANCE DEPARTMENT/PURCHASING DIVISION
4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
Fax: 941.429.7173
Email: purchasing@cityofnorthport.com



October 29, 2025
ADDENDUM 1

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

****ALL BIDS ARE DATE AND TIME STAMPED IN THE FINANCE DEPARTMENT, SUITE 337 FIRST AND THEN ARE OPENED IN SUITE 337A****

Bidders are hereby notified that this addendum shall be made part of the above-named bid and contract documents. The following changes to the above bid are issued to modify, and/or clarify the bid and contract documents (the deletions are as ~~strikethroughs~~ and additions as underlined). These items shall have the same force and effect as the original documents, and bids to be submitted on the specified date shall conform with the additions, deletions and revisions as listed herein.

Q1: Question: Would the owner consider United Felts an approved CIPP Liner manufacturer per Section 336084 Part 2.1-A?

United Felts is a world class CIPP Manufacturer, pioneering the way forward by innovating solutions for trenchless pipeline repair industry-wide for over 40 years. We produce superior quality felt and fiberglass CIPP Liners suitable for many applications, including potable water, pressure pipe and gravity sewer lines.

A1: The alternate manufacture would be considered upon receipt of Reference Projects per Spec Section 012500 1.5 SUBSTITUTIONS- Subsection B 1.d

a. Name and address of similar projects on which product has been used, and date of each installation.

Q2: The email for the Purchasing division seems to be wrong.

A2: purchasing@northportfl.gov

CLARIFICATION:

The existing Buy America provision in the bid document is replaced with the following:

Domestic preferences for procurements

The Contractor and all subcontractors, to the greatest extent practicable and consistent with law, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). This includes:
(1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
(2) "Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 1 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.1



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4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
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October 27, 2025
ADDENDUM 2

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM
4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Q1: Can the owner confirm the warranty for this contract?

WARRANTY: All warranties express and implied, shall be made available to the City for goods and services covered by this solicitation. All goods furnished shall be fully guaranteed by the vendor against factory and workmanship defects. At no expense to the City, the vendor shall correct any and all apparent and latent defects that may occur within the manufacturer's standard warranty period. The special conditions of the solicitation may supersede the manufacturer's standard warranty.

A1: There is also additional warranty language: Refer to Technical Specification Section 336084 CURE IN PLACE LINING, Section 1.6 GURANTEEE

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 2 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.2

Addendum No.2



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Office: 941.429.7170
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October 30, 2025
ADDENDUM 3

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Q1: Has the area been TV'd already?

A1: Yes, within the past 5 years, and currently being re-televised for current data.

Q2: Are there fire hydrants in the area?

A2: Yes, please refer to attached Map.

Q3: How do we get a hydrant meter?

A3: Contact Jennifer Russell with Utilities for an application & meter pick-up. (941) 240-8005

Q4: Is there a dump site available for debris?

A4: Liquids can be discharged into the system; however, Contractor is responsible for removal of solids.

Q5: Do we coordinate with the HOA?

A5: Schedule will be coordinated with Utilities Field Superintendent, Eric Conrad, who will correspond with the HOA.

Q6: Any flow data for the bypass pumping?

A6: Refer to attached for 7-day flow activity. LS-25 Pump information: 2-20hp 3152.181-9313 Imp 454.

Q7: Are there any restrictions on working hours? Like noise restrictions?

A7: 7 A.M to 6:30 P.M

Q8: Is the number 60 laterals pretty accurate?

A8: Based off current GIS mapping, it was estimated that there are 101 laterals in these runs. Some lots have double connections; therefore, you cannot assume 1 lateral per home/lot.

Q9: Clarify if these Section 3 goals apply to employment or subcontracting?

A9: The Section 3 goals apply to employment specifically, to the total hours worked on the project. The goals are based on labor hours worked by Section 3 and Targeted Section 3 workers, not on subcontracting amounts.

Q10: Regarding Section 3 goals, what is the difference between the 25% and the 5% goal?

1. Twenty-five percent (25%) of the total hours on a Section 3 project must be worked by Section 3 workers; and

2. Five percent (5%) of the total hours on a Section 3 project must be worked by Targeted Section 3 workers.

A10: 1: Section 3 workers are individuals who meet HUD's criteria (such as low- or very low-income, or other qualifying factors).

A10: 2: Targeted Section 3 workers are a subset of Section 3 workers who meet additional criteria (for example, they may live within one mile of the project, be YouthBuild participants, or meet other HUD-defined targeting requirements), as defined in § 75.21.

$\frac{\text{Section 3 labor hours}}{\text{Total labor hours}} = 25\%$	AND	$\frac{\text{Targeted Section 3 labor hours}}{\text{Total labor hours}} = 5\%$

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP

Senior Contract Administrator

Finance Department/Purchasing Division

4970 City Hall Blvd.

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Fax: 941.429.7173

E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 3 shall be noted within the Bid Form in the appropriate section.

End of Addendum No.3



City of North Port
FINANCE DEPARTMENT/PURCHASING DIVISION
4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
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November 4, 2025
ADDENDUM 4

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Q1: Would the City consider removing the Section 3 worker requirement or allow an alternative compliance option in this case?

A1: No, this is a Grant requirement.

Keith Raney
Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
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Receipt of Addendum No. 4 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.4



City of North Port
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4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
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November 12, 2025
ADDENDUM 5

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Statement:

There have been no modifications to Davis Bacon Act Wage Determination #FL20250133 which was supplied in the advertised solicitation.

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
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Receipt of Addendum No. 5 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.5



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NORTH PORT, FLORIDA 34287
Office: 941.429.7170
Fax: 941.429.7173
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November 13, 2025
ADDENDUM 6

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, November 20, 2025

BID OPENING: November 20, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

*****ALL BIDS ARE DATE AND TIME STAMPED IN THE FINANCE DEPARTMENT, SUITE 337 FIRST AND THEN ARE OPENED IN SUITE 337A*****

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Q1: In reference to Attachment I – Qualifications and References, it appears the form is missing lines on reference # 2 (signatures in place of contract period and contract price) while reference #3 has those lines duplicated. How would owner like us to fill out these fields or will the owner be submitting a revised form to complete?

A1: Please see attached revised reference form.

Q2: What is the Engineer's estimate or budget cost for this project?

A2: ~\$1,178,000

Q3: Hinterland Group respectfully request that Refratta's 100% pure-fused calcium aluminate coating be approved as an equal under that manhole rehabilitation specifications. Refratta's specs are attached for your review.

A3: Denied.

Q4: Hinterland Group respectfully request that Global Materials Company be approved as a CIPP liner manufacturer. Global's specs are attached for your review.

A4: Denied.

Q5: Does the Section 3 application need to be filled out if contractor/bidder does not qualify?

A5: If the contractor is unable to identify or hire a Section 3 subcontractor, the contractor is required to submit documentation demonstrating good faith efforts to comply with Section 3 regulations (24 CFR § 75.15(b) and § 75.25(b)). This documentation should clearly describe the specific challenges or obstacles encountered in attempting to engage Section 3 businesses.

Examples of acceptable documentation include:

- Evidence of searching the national Section 3 Business Registry for qualified businesses.
- A list of all Section 3 businesses contacted, including contact information, dates, and the outcome of each contact.
- Records of meetings, notes, or minutes from pre-bid meetings or other communications where Section 3 requirements were discussed.
- Descriptions of any other outreach or efforts made to comply with Section 3, even if they did not result in a contract award.

The contractor is also encouraged to reach out to businesses located within the project area, notify them of contracting opportunities, and engage with local HUD offices, minority/women business assistance offices, and community organizations as part of these efforts.

Q6: Is the Compliance information document the only required document to be submitted with the bid as it relates to Section 3?

A6: As it relates to Section 3 requirements, the contractor must submit the Section 3 Assessment and Certifications form (Compliance Information) with the bid. Depending on the contractor's Section 3 status and the specifics of the project, additional documentation may also be required. This may include evidence of good faith efforts to engage Section 3 businesses or workers, narratives describing outreach or obstacles encountered.

Contractors should review the bid instructions carefully to ensure all required Section 3-related documents are included with their submission. If only the Compliance Information form is required for your situation, submit that form; if additional documentation is needed, be sure to include it with your bid.

Q7: GCU would like to submit the following products for approval regarding the above referenced project: **CIPP Liner:** We submit United Felts for CIPP liner

A7: Refer to Addendum #1

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 6 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.6

ATTACHMENT I

QUALIFICATIONS AND REFERENCES

The Contractor shall submit a minimum of four (4) recent (within the past five (5) years) references of projects of similar size and scope involving cleaning and CCTV, cured-in-place liners, cured-in-place liner spot repair, manhole rehabilitations and grouting or any combination of services being offered to the City. Each reference shall include a project description, project location, name and phone number of a contact person, total project amount, and completion date.

1. Business/Customer Name: _____

Name of Contact Person/Title: _____

Telephone# _____ E-mail _____

Address _____

Phone Number _____

Duration of Contract or business relationship _____

Type of Services Provided _____

Contract Period: FROM _____ TO _____

Contract Price \$ _____ Contract Price at Completion of the Project \$ _____

2. Business/Customer Name: _____

Name of Contact Person/Title: _____

Telephone# _____ E-mail _____

Address _____

Phone Number _____

Duration of Contract or business relationship _____

Type of Services Provided _____

Contract Period: FROM _____ TO _____

Contract Price \$ _____ Contract Price at Completion of the Project \$ _____

Date: _____

Signed (Person authorized to bind the company): _____

Name (printed): _____ Title: _____

(THIS PAGE MUST BE COMPLETED AND SUBMITTED)

3. Business/Customer Name: _____

Name of Contact Person/Title: _____

Telephone# _____ E-mail _____

Address _____

Contract Period: FROM _____ TO _____

Contract Price \$ _____ Contract Price at Completion of the Project \$ _____

Phone Number _____

Duration of Contract or business relationship _____

Type of Services Provided _____

Contract Period: FROM _____ TO _____

Contract Price \$ _____ Contract Price at Completion of the Project \$ _____

4. Business/Customer Name: _____

Name of Contact Person/Title: _____

Telephone# _____ Fax _____ E-mail _____

Address _____

Phone Number _____

Duration of Contract or business relationship _____

Type of Services Provided _____

Contract Period: FROM _____ TO _____

Contract Price \$ _____ Contract Price at Completion of the Project \$ _____

Signed (Person authorized to bind the company): _____

Name (printed): _____ Title: _____

(THIS PAGE MUST BE COMPLETED AND SUBMITTED)



City of North Port
FINANCE DEPARTMENT/PURCHASING DIVISION
4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
Fax: 941.429.7173
Email: purchasing@cityofnorthport.com



November 14, 2025
ADDENDUM 7

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, ~~November 20, 2025~~ December 3, 2025

BID OPENING: December 3, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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DUE DATE: 2:00 PM, ~~November 20, 2025~~ December 3, 2025

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 7 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.7



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4970 CITY HALL BLVD, STE 337
NORTH PORT, FLORIDA 34287
Office: 941.429.7170
Fax: 941.429.7173
Email: purchasing@cityofnorthport.com



November 20, 2025
ADDENDUM 8

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, December 3, 2025

BID OPENING: December 3, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Statements:

- There have been no modifications to Davis Bacon Act Wage Determination #FL20250133 which was supplied in the advertised solicitation.
- Section 3: See attached list, contacting these interested parties will count as efforts to meet Section 3 compliance.
- Additional Addenda Acknowledgment page attached

Q1: Can you please confirm if smoke testing will be required?

A1: Smoke testing will not be required.

Q2: Can you please confirm if air testing will be required after CIPP installation?

A2: Refer to Spec Section 336084; 3.4 Field Testing and Acceptance

3.4 FIELD TESTING AND ACCEPTANCE

A. Field acceptance of CIPP lining shall be based on the City's and Engineer's evaluation of installation, including a review of the CIPP liner curing data, review of post-rehabilitation CCTV inspection data (post-rehabilitation CCTV to be performed by the Contractor), and review of certified test data for installed CIPP liner, including air testing. All CIPP sample testing, and repairs to installed CIPP as

applicable, shall be completed before final acceptance, meeting requirements of these specifications and documented in written form

Q3: Per Section 336084 (2.3 Service Lateral Seals), it states deeper than 5 feet from land surface is considered below the phreatic surface, seal service lateral connection by injecting a chemical hydrophilic grout. On the bid form, line item 4 states "Sealing Service Lateral Connection via Chemical Grout." Is the intention to grout all service laterals, or is it possible some laterals are above the phreatic surface and will need a hydrophilic rubber connection seal?

A3: Per Section 336084 (2.3), chemical hydrophilic grout is required for service laterals deeper than 5 feet, as these are below the phreatic surface. Laterals above this depth may use a hydrophilic rubber connection seal only if it meets specification requirements, including ASTM F3240 compliance and proven watertight performance under subterranean conditions. The bid item reflects grout for below-phreatic installations.

Q4: We are submitting Tnemec/Epoxytec Series 451 for the Inflow and Infiltration Mitigation Community Development project. This submission is for Division 336040 Manholes, Rings and Covers section, class F Internal Protection as alternative to the specified materials.

A4: Substitution request denied.

Q5: Measurement and Payment, Technical Spec Pg 29, 1.2, B States Lump Sum Mobilization not to exceed 5%, Can this be added as a bid Item?

A5: Mobilization is included in Unit Costs. Refer to Note 1 on Bid Form

Q6: Pg 188, par C. States contractor shall remove all obstructions and protruding service connections.

- a. Does the owner have videos showing the number of protruding service connections?
- b. If no videos, can a bid item be added?

A6: No protruding service connections are anticipated.

Q7: Are any open cut point repairs anticipated for this project? If so, can a bid item be added?

A7: No open cut point repairs are anticipated.

Q8: Pg 14, par 14. Requires 2-days of NASSCO CIPP inspector training, How many inspectors are anticipated for this project? Can a Bid Item be added for this item?

A8: Not applicable.

Q9: Pg 206, par A. Requires hydrophilic rubber connection seals for lateral connections deeper then 5'. Bid item 4 specifically calls for chemical grouting, Can the owner confirm which is required?

A9: Refer to Question 3

Q10: Is air testing of installed liners required? Pg. 218, par M. References an air test per section 336065, but not seeing air testing specifications in that section, only smoke testing? Can the owner confirm?

A10: Refer to Question 2

Q11: Will the owner give an example of contractor compliance with the section 3 worker requirement?

A11: Refer to Addendum 3

Q12: Can the Owner/Engineer kindly consider an extension of the bid due date to allow for proper compliance with these federally funded requirements?

A12: To be considered

Q13: Will the Owner/Engineer please provide the budget for this project?

A13: Refer to Addendum 6

Q14: Will the Owner/Engineer please provide any previous itemized bid tabulations for projects of similar scope?

A14: No

Q15: Will the Owner/Engineer please provide the anticipated NTP date for this project?

A15: Within 6 months

Q16: Will the Owner/Engineer provide copies of existing CCTV files for pipe segments proposed for rehabilitation?

A16: Yes; refer to Addendum 3

Q17: Will the Owner provide a disposal site for pipe cleaning debris at no cost to the Contractor?

A17: Refer to Addendum 3

Q18: Will the Contractor be required to pay for the water usage for the pipe cleaning and rehab? If so, what is the cost per gallon?

A18: Contractor will be responsible for providing water and/or obtaining a Hydrant Meter. \$8.48/1,000-64,000 gallons and \$9.87/65,000-128,000 gallons Refer to Addendum 3

Q19: Please give clarification to the warranty for this work. There are 3 separate areas that state warranty is 1 year, 3 years and then 5 years.

A19: Refer to Addendum 2

Q20: Please confirm if this job is tax exempt.

A20: No

Q21: Can the Owner/Engineer please provide what permits and costs associated with the permits that will be required for this job?

A21: Refer RFB Section III- Special Provisions for permit requirements.

Q22: Can owner provide CDBG Grant # for Section 3 form?

A22: IR025

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP

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Receipt of Addendum No. 8 shall be noted within the Bid Form in the appropriate section.

End of Addendum No.8

Addendum No.8

ADDENDA ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following addenda, and the cost, if any, of such revisions has been included in the bid price.

Addendum No.		Dated		Addendum No.		Dated	
Addendum No.		Dated		Addendum No.		Dated	
Addendum No.		Dated		Addendum No.		Dated	
Addendum No.		Dated		Addendum No.		Dated	

Date: _____

Signed (Person authorized to bind the company): _____

Name (printed): _____ Title: _____

THIS PAGE MUST BE COMPLETED AND SUBMITTED

Section 3 Interest Form



Section 3 Registry

	Date	Form Title	First Name	Email	Last Name	Phone Number	Trade	Other	Income Level	County	Business Concern
1	12/16/24 9:41 AM	Exhibit C Business Concern	Matthew	matthunterplumbing1@gmail.com	Hunter	9414235813	Plumber		\$0-\$30,000	Sarasota	Yes
2	02/10/25 3:34 PM	Exhibit A - Self Certify	Ariel	aleariel027@gmail.com	Gonzalez	9413407673	Carpentry Electrician General construction laborer Landscaper Masonry Other Plumber Roofing laborer Window/door installation	driver	\$0-\$30,000	FL	
3	11/10/25 10:19 AM	Exhibit A - Self Certify	Patricia	pabutler0135@gmail.com	Butler	402-306-9755	Electrician General construction laborer		\$0-\$30,000	Sarasota	
4	11/10/25 5:35 PM	Exhibit A - Self Certify	Christian	netto2002@yahoo.com	Brown	9418755544	Carpentry		\$31,000-\$60,000	Sarasota	



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December 1, 2025
ADDENDUM 9

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, ~~December 3, 2025~~ December 17, 2025

BID OPENING: December 17, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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DUE DATE: 2:00 PM, ~~December 3, 2025~~ December 17, 2025

Keith Raney

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Senior Contract Administrator
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Receipt of Addendum No. 9 shall be noted within the Bid Form in the appropriate section.
End of Addendum No.9



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December 1, 2025
ADDENDUM 10

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, ~~December 3, 2025~~ December 17, 2025

BID OPENING: December 17, 2025, AT 2:00 PM

4970 CITY HALL BOULEVARD, ROOM 337A, NORTH PORT, FLORIDA 34286

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Attached Revised Bidform

Addendum 1- Question 1 and Addendum 6 – Questions 4 and 7 have been revised.

Addendum 1

Question: Would the owner consider United Felts an approved CIPP Liner manufacturer per Section 336084 Part 2.1-A?

United Felts is a world class CIPP Manufacturer, pioneering the way forward by innovating solutions for trenchless pipeline repair industry-wide for over 40 years. We produce superior quality felt and fiberglass CIPP Liners suitable for many applications, including potable water, pressure pipe and gravity sewer lines.

Answer: Please submit the following:

- Product identification, including manufacturer's name and address.
- Manufacturer's literature; identify:
 - 1) Product description.
 - 2) Reference standards.
 - 3) Performance and test data.
 - 4) Operation and maintenance data.

Name and address of similar projects on which product has been used, and date of each installation.

Addendum 6

Q4: Hinterland Group respectfully request that Global Materials Company be approved as a CIPP liner manufacturer. Global's specs are attached for your review.

A4: Please submit the following:

Product identification, including manufacturer's name and address.

Manufacturer's literature; identify:

- 1) Product description.
- 2) Reference standards.
- 3) Performance and test data.
- 4) Operation and maintenance data.

Name and address of similar projects on which product has been used, and date of each installation.

Q7: GCU would like to submit the following products for approval regarding the above referenced project:

CIPP Liner: We submit United Felts for CIPP liner.

A7: Please submit the following:

Product identification, including manufacturer's name and address.

Manufacturer's literature; identify:

- 1) Product description.
- 2) Reference standards.
- 3) Performance and test data.
- 4) Operation and maintenance data.

Name and address of similar projects on which product has been used, and date of each installation.

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP

Senior Contract Administrator

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4970 City Hall Blvd.

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Tel: 941.429.7103

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E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 10 shall be noted within the Bid Form in the appropriate section.

End of Addendum No.10

RFB 2025-43 Inflow and Infiltration (Florida Department of Economic Opportunity's Rebuild Florida Infrastructure Repair Program)					
Bid Schedule					
No.	Description	Quantity (2)	Unit	Unit Cost	Item Cost
REHABILITATION (1)					
	CURED-IN-PLACE LINER				
1	Cured in Place Liner - 8" Dia. (6 mm thick)	3530	LF	\$44.00	155,320
2	Cured in Place Liner - 10" Dia. (6 mm thick)	0	LF	\$46.00	-
3	Reinstate Service Lateral Connection	50	EA	\$50.00	2,500
4	Sealing Service Lateral Connection via Chemical Grouting	50	EA	\$400.00	20,000
				GRAND TOTAL:	177,820

Note 1 Rehabilitation unit costs include all work to construct, test and inspect (including but not limited to maintenance of traffic, taking samples and having them tested at a lab, cleaning/preparing pipe and manholes, pre and post rehabilitation CCTV, and bypass pumping).

Note 2 Quantities shown are estimated to establish unit pricing for each specific item and give a general scope of the project. Final project quantities may be increased or decreased based on actual quantities and/or budget dollars available.

Date: 12/16/2025



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NORTH PORT, FLORIDA 34287
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December 5, 2025
ADDENDUM 11

TO: PROSPECTIVE BIDDERS

RE: RFB NO. 2025-43 Inflow and Infiltration Mitigation CDBG

DUE DATE: 2:00 PM, December 17, 2025

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Statements:

1. There have been modifications to Davis Bacon Act Wage Determination #FL20250133 which was supplied in the advertised solicitation.

See attached document

2. Pre-Approved Alternates: United Felts and Global Materials as submitted.

Keith Raney

Keith Raney, CPPB, CPPO, NIGP-CPP
Senior Contract Administrator
Finance Department/Purchasing Division
4970 City Hall Blvd.
North Port, Florida 34286
Tel: 941.429.7103
Fax: 941.429.7173
E-mail: kraney@cityofnorthport.com

Receipt of Addendum No. 11 shall be noted within the Bid Form in the appropriate section.

End of Addendum No.11

"General Decision Number: FL20250133 12/05/2025

Superseded General Decision Number: FL20240133

State: Florida

Construction Type: Heavy

County: Sarasota County in Florida.

HEAVY CONSTRUCTION PROJECTS (Including Sewer and Water Lines)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a

conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	12/05/2025

* ELEC0915-003 12/01/2025

	Rates	Fringes
ELECTRICIAN.....	\$ 36.23	15.93

ENGI0487-034 06/01/2023

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1		
150 ton lattice, 250 ton hydro, friction, tower and luffing cranes, 300+ ft boom.....	\$ 39.01	16.85
Group 2		
Lattice under 150 ton, 100 ton up to 250 ton hydro cranes.....	\$ 38.01	16.85
Group 3		
Cranes not described above, Drill Rig, Horizontal Directional Drill Operator, Horizontal Direction Drill Locator.....	\$ 37.01	16.85

Journeyman Oiler shall be paid: 90% of Group 3's rate.

IRON0397-006 07/01/2024

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 35.25	17.32

LABO0517-002 05/01/2023

	Rates	Fringes
LABORER: Grade Checker.....	\$ 22.61	11.59

PAIN0088-008 06/01/2021

	Rates	Fringes

PAINTER: Brush, Roller and Spray.....	\$ 20.21	12.38

* SUFL2009-172 06/24/2009

	Rates	Fringes

CARPENTER.....	\$ 14.95 **	2.92
CEMENT MASON/CONCRETE FINISHER...	\$ 14.77 **	3.50
LABORER: Common or General.....	\$ 9.50 **	1.69
LABORER: Landscape.....	\$ 7.25 **	0.00
LABORER: Pipelayer.....	\$ 13.75 **	2.06
LABORER: Power Tool Operator (Hand Held Drills/Saws, Jackhammer and Power Saws Only).....	\$ 10.63 **	2.20
OPERATOR: Asphalt Paver.....	\$ 11.59 **	0.00
OPERATOR: Backhoe Loader Combo.....	\$ 16.10 **	2.44
OPERATOR: Backhoe/Excavator.....	\$ 15.00 **	0.52
OPERATOR: Bulldozer.....	\$ 17.00 **	0.00
OPERATOR: Grader/Blade.....	\$ 16.00 **	2.84
OPERATOR: Loader.....	\$ 14.75 **	0.00
OPERATOR: Mechanic.....	\$ 14.32 **	0.00
OPERATOR: Roller.....	\$ 10.76 **	0.00
OPERATOR: Scraper.....	\$ 11.00 **	1.74
OPERATOR: Trackhoe.....	\$ 20.92	5.50
OPERATOR: Tractor.....	\$ 10.54 **	0.00
TRUCK DRIVER, Includes Dump Truck.....	\$ 11.00 **	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 12.73 **	0.00
TRUCK DRIVER: Off the Road		

Truck.....\$ 12.21 ** 1.97

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey

is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

END OF GENERAL DECISION"