# CITY OF NAPLES, FLORIDA AGREEMENT (CONSTRUCTION SERVICES)

Bid/Proposal No. 19-015

Clerk Tracking No. 2019-60003

Project Name: Cove Outfall Improvements

THIS AGREEMENT (the "Agreement") is made and entered into this <u>16<sup>th</sup> day of January 2019</u> by and between the City of Naples, a Florida municipal corporation, (the "CITY") and **Quality Enterprises USA, Inc.**, a Virginia Corporation authorized to do business in Florida, located at: 3494 Shearwater Street; Naples, Florida 34117-8414 (the "CONTRACTOR").

WHEREAS, the CITY desires to obtain the services of the CONTRACTOR concerning certain services specified in this Agreement (referred to as the "Project"); and

WHEREAS, the CONTRACTOR has submitted an (ITB) Invitation to Bid No. 19-015 for provision of those services; and

WHEREAS, the CONTRACTOR represents that it has expertise in the type of services that will be required for the Project.

NOW, THEREFORE, in consideration of the mutual covenants and provisions contained herein, the parties hereto agree as follows:

# ARTICLE ONE CONTRACTOR'S RESPONSIBILITY

- 1.1. The Services to be performed by the CONTRACTOR are generally described as **Cove Outfall Improvements** and may be more fully described in the Scope of Services, attached as **EXHIBIT A** and made a part of this Agreement.
- 1.2. The CONTRACTOR agrees to obtain and maintain throughout the period of this Agreement all such licenses as are required to do business in the State of Florida, the City of Naples, and in Collier County, Florida, including, but not limited to, all licenses required by the respective state boards and other governmental agencies responsible for regulating and licensing the services to be provided and performed by the CONTRACTOR pursuant to this Agreement.
- 1.3. The CONTRACTOR agrees that, when the services to be provided hereunder relate to a professional service which, under Florida Statutes, requires a license, registration, certificate of authorization or other form of legal entitlement to practice such services, it shall employ or retain only qualified personnel to provide such services.
- 1.4. The CONTRACTOR agrees to employ and designate, in writing, within 5 calendar days after receiving its Notice to Proceed, or other directive from the CITY, a qualified employee to serve as the CONTRACTOR's project manager (the "Project Manager"). The Project Manager shall be authorized and responsible to act on behalf of the CONTRACTOR with respect to directing, coordinating and administering all aspects of the services to be provided and performed under this Agreement.

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- 1.5. The CONTRACTOR has represented to the CITY that it has expertise in the type of services that will be required for the Project. The CONTRACTOR agrees that all services to be provided by CONTRACTOR pursuant to this Agreement shall be subject to the CITY's review and approval and shall be in accordance with the generally accepted standards of practice in the State of Florida, as may be applied to the type of services to be rendered, as well as in accordance with all published laws, statutes, ordinances, codes, rules, regulations and requirements of any governmental agencies that regulate or have jurisdiction over the Project or the services to be provided and performed by the CONTRACTOR. In the event of any conflicts in these requirements, the CONTRACTOR shall notify the CITY of such conflict and utilize its best professional judgment to advise CITY regarding resolution of the conflict.
- 1.6. The CONTRACTOR agrees not to divulge, furnish or make available to any third person, firm or organization, without CITY's prior written consent, or unless incident to the proper performance of the CONTRACTOR's obligations hereunder, or in the course of judicial or legislative proceedings where such information has been properly subpoenaed, any non-public information concerning the services to be rendered by the CONTRACTOR hereunder, and the CONTRACTOR shall require all of its employees, agents, sub-consultants and subcontractors to comply with the provisions of this paragraph. However, the CONTRACTOR shall comply with the Florida Public Records laws including those requirements set out in ARTICLE FIVE, below.
- 1.7 The CONTRACTOR agrees not to employ or offer to employ any Elected Officer or City Managerial Employee of the CITY who in any way deals with, coordinates on, or assists with, the services provided in this Agreement, for a period of 2 years after termination of all provisions of this Agreement. For purposes of this paragraph, the term "Elected Officer" shall mean any member of the City Council. For purposes of this paragraph, the term "City Managerial Employee" shall mean the City Manager, the Assistant City Manager, the City Clerk, and any City department head or director. If the CONTRACTOR violates the provisions of this paragraph, the CONTRACTOR shall be required to pay damages to the CITY in an amount equal to any and all compensation that is received by the former Elected Officer or City Managerial Employee of the CITY from or on behalf of the contracting person or entity, or an amount equal to the former Elected Officer's or City Managerial Employee's last 2 years of gross compensation from the CITY, whichever is greater.
- 1.8 The CONTRACTOR agrees not to provide services for compensation to any other party other than the CITY on the same subject matter, same project, or scope of services as set forth in this Agreement without approval from the CITY. This section does not prevent the CONTRACTOR from contracting with other firms or government organizations for similar services.
- 1.9. Except as otherwise provided in this Agreement, the CONTRACTOR agrees not to disclose or use any information not available to members of the general public and gained by reason of the CONTRACTOR's contractual relationship with the CITY for the special gain or benefit of the CONTRACTOR or for the special gain or benefit of any other person or entity.

# ARTICLE TWO CITY'S RESPONSIBILITIES

2.1. The CITY shall designate in writing a project coordinator to act as the CITY's representative with respect to the services to be rendered under this Agreement (the "Project Coordinator"). The Project Coordinator shall have authority to transmit instructions, receive information, interpret and define the CITY's policies and decisions with respect to the CONTRACTOR's services for the Project. However, the Project Coordinator is not authorized to issue any verbal or written orders or instructions to the CONTRACTOR that would have the effect, or be interpreted to have the effect, of modifying or changing in any way whatever:

- (a) The scope of services to be provided and performed by the CONTRACTOR;
- (b) The time the CONTRACTOR is obligated to commence and complete all such services; or
- (c) The amount of compensation the CITY is obligated or committed to pay the CONTRACTOR.

Any such modifications or changes shall only be made by or upon the authorization of the CITY's city manager as authorized by city council in the enabling legislation or in the CITY's procurement policies.

# 2.2. The Project Coordinator shall:

- (a) Review and make appropriate recommendations on all requests submitted by the CONTRACTOR for payment for services and work provided and performed in accordance with this Agreement;
- (b) Arrange for access to and make all provisions for the CONTRACTOR to enter the Project site to perform the services to be provided by the CONTRACTOR under this Agreement; and
- (c) Provide notice to the CONTRACTOR of any deficiencies or defects discovered by the CITY with respect to the services to be rendered by the CONTRACTOR hereunder.
- 2.3. The CONTRACTOR acknowledges that access to the Project Site, to be arranged by the CITY for the CONTRACTOR, may be provided during times that are not the normal business hours of the CONTRACTOR.

# ARTICLE THREE

### TIME

- 3.1. Services to be rendered by the CONTRACTOR shall be commenced subsequent to the execution of this Agreement upon written **Notice to Proceed (NTP)** from the CITY for all or any designated portion of the Projects assigned to this Agreement and **shall be Substantially completed** no later than 180-days from the NTP and Final completion no later than 210-days from the NTP. Project has an estimated completion date from the NTP of November 1, 2019 with a 60-day Close-out time frame. Time is of the essence with respect to the performance of this Agreement.
- 3.2. Should the CONTRACTOR be obstructed or delayed in the prosecution or completion of its services as a result of unforeseeable causes beyond the control of the CONTRACTOR, and not due to its own fault or neglect, including but not restricted to acts of God or of public enemy, acts of government or of the CITY, fires, floods, epidemics, quarantine regulations, strikes or lock-outs, then the CONTRACTOR shall notify the CITY in writing within 5 working days after commencement of such delay, stating the cause or causes thereof, or be deemed to have waived any right which the CONTRACTOR may have had to request a time extension.
- 3.3. No interruption, interference, inefficiency, suspension or delay in the commencement or progress of the CONTRACTOR's services from any cause whatsoever, including those for which the CITY may be responsible in whole or in part, shall relieve the CONTRACTOR of its duty to perform or give rise to any right to damages or additional compensation from the CITY. The CONTRACTOR's sole remedy against the CITY will be the right to seek an extension of time to its schedule. This paragraph shall expressly apply to claims for early completion, as well as claims based on late completion.

- 3.4. Should the CONTRACTOR fail to commence, provide, perform or complete any of the services to be provided hereunder in a timely and reasonable manner, in addition to any other rights or remedies available to the CITY hereunder, the CITY at its sole discretion and option may withhold any and all payments due and owing to the CONTRACTOR until such time as the CONTRACTOR resumes performance of its obligations hereunder in such a manner so as to reasonably establish to the CITY's satisfaction that the CONTRACTOR's performance is or will shortly be back on schedule.
- 3.5 Liquidated Damages: Services to be rendered by the CONTRACTOR shall be commenced subsequent to the execution of this Agreement upon written Notice-to-Proceed from the CITY for all or any designated portion of the Project must be completed by the contract dates specified within the Notice-to-Proceed for construction. Should CONTRACTOR fail to complete the project within this timeframe, daily liquidated damages in an amount consistent with the current Sec. 8-10.2 (FDOT) Florida Department of Transportation Standard Specifications will be assessed.
- 3.6 Bonding by CONTRACTOR. A Payment & Performance Bond to be issued by a surety insurer authorized to do business in this state as surety. CONTRACTOR prior to commencement of work, will record Payment & Performance Bond in the public records of the Clerk of Collier County.

# ARTICLE FOUR COMPENSATION

4.1. The total compensation to be paid the CONTRACTOR by the CITY for all Services is not to exceed \$1,046,525.05 that includes a \$118,014.55 CITY controlled Contingency with the removal of Alternate Bid Items A-D2 (\$1,298,160.05 -251,635.00) and shall be paid in the manner set forth in the "Basis of Compensation", which is attached as EXHIBIT B and made a part of this Agreement.

# ARTICLE FIVE MAINTENANCE OF RECORDS

5.1. The CONTRACTOR will keep adequate records and supporting documentation which concern or reflect its services hereunder. The records and documentation will be retained by the CONTRACTOR for a minimum of five 5 years from the date of termination of this Agreement or the date the Project is completed, whichever is later. The CITY, or any duly authorized agents or representatives of the CITY, shall have the right to audit, inspect and copy all such records and documentation as often as they deem necessary during the period of this Agreement and during the 5 year period noted above; provided, however, such activity shall be conducted only during normal business hours. If the CONTRACTOR desires to destroy records prior to the minimum period, it shall first obtain permission from the CITY in accordance with the Florida Public Records laws.

# 5.2 119.0701 F.S. CONTACT INFORMATION FOR CITY OF NAPLES' CUSTODIAN OF PUBLIC RECORDS, CITY CLERK'S OFFICE

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 City of Naples' Custodian of Public records, the City Clerk at Telephone: 239-213-1015; Email: PublicRecordsRequests@naplesgov.com; Address: 735 8th Street S., Naples, Florida 34102; Mailing address: same as street address.

# 5.3 The CONTRACTOR shall:

- (a) Keep and maintain public records required by the CITY to perform the service.
- (b) Upon request from the CITY's custodian of public records, provide the CITY 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 in this chapter 119.0701 F.S. or as otherwise provided by law.
- (c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the CONTRACTOR does not transfer the records to the CITY.
- (d) Upon completion of the contract, transfer, at no cost, to the CITY all public records in possession of the CONTRACTOR 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 completion of the contract, the CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored 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.

# ARTICLE SIX INDEMNIFICATION

6.1. The CONTRACTOR agrees to indemnify and hold harmless the CITY from liabilities, damages, losses and costs, including, but not limited to, all attorneys' fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR and persons employed or utilized by the CONTRACTOR in the performance of the Contract.

# ARTICLE SEVEN INSURANCE

7.1. The CONTRACTOR shall obtain and carry, at all times during its performance under this Agreement, insurance of the types and in the amounts set forth in the document titled General Insurance Requirements, which is attached as **EXHIBIT C** and made a part of this Agreement.

# ARTICLE EIGHT SERVICES BY CONTRACTOR'S OWN STAFF

8.1. The services to be performed hereunder shall be performed by the CONTRACTOR's own staff, unless otherwise authorized in writing by the CITY. The employment of, contract with, or use of the services of any other person or firm by the CONTRACTOR, as independent contractor or otherwise, shall be subject to the prior written approval of the CITY. No provision of this Agreement shall, however, be construed as constituting an agreement between the CITY and any such other person or firm. Nor shall anything contained in this Agreement be deemed to give any such party or any third party any claim or right of action against the CITY beyond such as may otherwise exist without regard to this Agreement.

# ARTICLE NINE WAIVER OF CLAIMS

9.1. The CONTRACTOR's acceptance of final payment shall constitute a full waiver of any and all claims, except for insurance company subrogation claims, by it against the CITY arising out of this Agreement or otherwise related to the Project, except those previously made in writing and identified by the CONTRACTOR as unsettled at the time of the final payment. Neither the acceptance of the CONTRACTOR's services nor payment by the CITY shall be deemed to be a waiver of any of the CITY's rights against the CONTRACTOR.

# ARTICLE TEN TERMINATION OR SUSPENSION

- 10.1. The CONTRACTOR shall be considered in material default of this Agreement and such default will be considered cause for the CITY to terminate this Agreement, in whole or in part, as further set forth in this section, for any of the following reasons: (a) failure to begin work under the Agreement within the times specified under the Notice(s) to Proceed, or (b) failure to properly and timely perform the services to be provided hereunder or as directed by the CITY, or (c) the bankruptcy or insolvency or a general assignment for the benefit of creditors by the CONTRACTOR or by any of the CONTRACTOR's principals, officers or directors, or (d) failure to obey laws, ordinances, regulations or other codes of conduct, or (e) failure to perform or abide by the terms or spirit of this Agreement, or (f) for any other just cause. The CITY may so terminate this Agreement, in whole or in part, by giving the CONTRACTOR at least 3 calendar days written notice.
- 10.2. If, after notice of termination of this Agreement as provided for in paragraph 10.1 above, it is determined for any reason that the CONTRACTOR was not in default, or that its default was excusable, or that the CITY otherwise was not entitled to the remedy against the CONTRACTOR provided for in paragraph 10.1, then the notice of termination given pursuant to paragraph 10.1 shall be deemed to be the notice of termination provided for in paragraph 10.3 below and the CONTRACTOR's remedies against the CITY shall be the same as and limited to those afforded the CONTRACTOR under paragraph 10.3 below.
- 10.3. The CITY shall have the right to terminate this Agreement, in whole or in part, without cause upon 7 calendar days written notice to the CONTRACTOR. In the event of such termination for convenience, the CONTRACTOR's recovery against the CITY shall be limited to that portion of the fee earned through the date of termination, together with any retainage withheld and any costs reasonably incurred by the CONTRACTOR that are directly attributable to the termination, but the CONTRACTOR shall not be entitled to any other or further recovery against the CITY, including, but not limited to, anticipated fees or profits on work not required to be performed.

# ARTICLE ELEVEN CONFLICT OF INTEREST

11.1. The CONTRACTOR represents that it presently has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder. The CONTRACTOR further represents that no persons having any such interest shall be employed to perform those services.

# ARTICLE TWELVE MODIFICATION

12.1. No modification or change in this Agreement shall be valid or binding upon the parties unless in writing and executed by the party or parties intended to be bound by it.

# ARTICLE THIRTEEN NOTICES AND ADDRESS OF RECORD

13.1. All notices required or made pursuant to this Agreement to be given by the CONTRACTOR to the CITY shall be in writing and shall be delivered by hand or by United States Postal Service Department, first class mail service, postage prepaid, return receipt requested, addressed to the following CITY's address of record:

City of Naples

735 Eighth Street South; Naples, Florida 34102-3796 Attention: **Charles T. Chapman IV**, City Manager

13.2. All notices required or made pursuant to this Agreement to be given by the CITY to the CONTRACTOR shall be made in writing and shall be delivered by hand or by the United States Postal Service Department, first class mail service, postage prepaid, return receipt requested, addressed to the following CONTRACTOR's address of record:

Quality Enterprises USA, Inc.

3494 Shearwater Street; Naples, Florida 34117-8414

Attention: Louis J. Gaudio, Vice President

FEI/EIN Number: On File

13.3. Either party may change its address of record by written notice to the other party given in accordance with requirements of this Article.

# ARTICLE FOURTEEN MISCELLANEOUS

- 14.1. The CONTRACTOR assumes toward the CITY a duty of care commensurate with that which is imposed upon persons or firms in contractor's profession. CONTRACTOR will make reasonable efforts to ensure that its employees and agents maintain a professional demeanor and that the work area is compliant with CITY property maintenance and Project standards.
- 14.2. No modification, waiver, suspension or termination of the Agreement or of any terms thereof shall impair the rights or liabilities of either party.
- 14.3. This Agreement is not assignable, in whole or in part, by the CONTRACTOR without the prior written consent of the CITY.
- 14.4. Waiver by either party of a breach of any provision of this Agreement shall not be deemed to be a waiver of any other breach and shall not be construed to be a modification of the terms of this Agreement.
- 14.5. The headings of the Articles, Exhibits, Parts and Attachments as contained in this Agreement are for the purpose of convenience only and shall not be deemed to expand, limit or change the provisions in such Articles, Exhibits, Parts and Attachments.
- 14.6. This Agreement constitutes the entire agreement between the parties hereto and shall supersede, replace and nullify any and all prior agreements or understandings, written or oral, relating to the matter set forth herein, and any such prior agreements or understanding shall have no force or effect whatever on this Agreement.

- 14.7. The CONTRACTOR shall comply fully with all provisions of state and federal law, including without limitation all provisions of the Immigration Reform and Control Act of 1986 ("IRCA") as amended, as well as all related immigration laws, rules, and regulations pertaining to proper employee work authorization in the United States. The CONTRACTOR shall execute the Certification of Compliance with Immigration Laws, attached hereto as **EXHIBIT D.**
- 14.8 To the extent that any provision in the Specifications or any other Contract Documents pertaining to this Project conflict with any provision of this Agreement, this Agreement controls.
- 14.9 Dispute Resolution. Disputes under this Agreement shall be resolved through mutual consultation between the parties within 14 days after notice; and failing resolution through mutual consultation, through mediation within 30 days thereafter; and failing mediation, through Arbitration under the Florida Arbitration Code, by a single arbitrator. If the parties cannot agree on a mediator or arbitrator, within 14 days of failure of the previous method, they shall request the Chief Judge of the 20<sup>th</sup> Judicial Circuit to appoint a mediator, or an arbitrator, as the case may be. Time periods are waivable by mutual agreement of the parties, but shall not exceed 90 days for completion of the processes described herein, unless by mutual agreement. Costs of the mediator or arbitrator shall be shared equally.
- 14.10 Attorneys' fees. Except as otherwise provided herein, each party shall be responsible for its own attorneys' fees.

# ARTICLE FIFTEEN APPLICABLE LAW

15.1. Unless otherwise specified, this Agreement shall be governed by the laws, rules, and regulations of the State of Florida, and by the laws, rules and regulations of the United States when providing services funded by the United States government. Any suit or action brought by either party to this Agreement against the other party relating to or arising out of this Agreement must be brought in the appropriate Florida state court in Collier County, Florida.

### **END OF ARTICLE PAGE**

IN WITNESS WHEREOF, the parties hereto have executed this Agreement for the day and year first written above.

Selection of the Contract of Contract C	
ATTEST:	CITY:
By: Patricia LURambosk, City Clerk	CITY OF NAPLES, FLORIDA, A Municipal Corporation  By: Charles T. Chapman IV, City Manager
Approved as to form and legal sufficiency:	
By: Robert D. Pritt, City Attorney	
	CONTRACTOR:
	QUALITY ENTERPRISES USA, INC. 3494 Shearwater Street Naples, Florida 34117-8414 Attention: <b>Louis J. Gaudio</b> , Vice President
Witness  CONTRACTOR:  Witness	Ву:
Marcie Cohen	Printed Name: Louis J. Gaudio
Witness Printed Name	Title: Vice President
	FEI/EIN Number: On File A Virginia Corporation (VA)
	(CORPORATE SEAL)

# **EXHIBIT A**

# **SCOPE OF SERVICES**

The Scope of Services to be provided under this Agreement are included in Attachment A-1 and Exhibit-E (Construction Plans) which are attached and made a part of this Agreement and those set out in the Bid, any issued Addendum(s)(four), and Vendor's Submittal of (ITB) Invitation To Bid No.19-015, titled Cove Outfall Improvements herein referenced and made a part of this Agreement.

**END OF EXHIBIT A** 

### **SECTION 01010**

Attachment A-1 : Scope of Services

# SUMMARY OF WORK

# PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Description of Work
  - B. CONTRACTOR's Use of Site
  - C. Work Sequence
  - D. City Occupancy

# 1.2 DESCRIPTION OF WORK

A. WATER QUALITY IMRPOVEMETNS AT THE COVE OUTFALL Plan Set Work performed under this Contract includes the creation of a channelized sedimentation basin, the introduction of a living shoreline, and hardscaping improvements supporting a stormwater public outreach amenity. The creation of the channelized sedimentation basin and living shoreline will utilize hydraulic and/or mechanical dredging technologies that will allow the removal of marine sediment, the introduction of clean fill for gradation, and the introduction of riprap that will line the channelized sedimentation basin and re-contour the living shoreline. Dewatering of the dredged marine sediments will be required prior to transportation offsite. Once dewatered, sediments shall be disposed of at a repository licensed to receive the material. The introduction of a living shoreline will utilize approximately 5,000 plantings of Spartina alterniflora for landscaping.

The creation of a stormwater public outreach amenity will include benches, signage, and plantings as shown on the drawings. This includes the removal of approximately 2,650 SF of existing concrete sidewalk to be replaced by approximately 2,325 SF of brick pavers. Approximately 152 LF of existing guardrail will be replaced, and approximately 303 LF of handrails will be introduced, as shown on the drawings. This Contract is limited to the work shown on the plans and described herein, also known as Water Quality Improvements at the Cove Outfall.

# B. POLLUTION CONCTROL STRUCTURE AT CAMBIER PARK Plan Set:

Work performed under this Contract includes furnishing, installing and placing into operation a Pollution Control Structure in the southwest corner of Cambier Park, installation of approximately 54-feet of new 24-inch RCP, and grouting in place and abandoning approximately 53-feet of existing 24-inch RCP. The work also includes

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all necessary work to connect the Pollution Control Structure to the existing storm sewer network. The work also includes all restoration to return the site to preconstruction condition or better.

Work performed under this Contract also includes the removal of a discharge weir located in a stormwater control structure at the intersection of Park Avenue and 6<sup>th</sup> Street. A new adjustable weir to be installed inside the existing manhole located at East Lake Drive, as shown on the plans. Contractor shall have a Licensed Professional Surveyor survey the existing manhole and provide data to design engineer for review along with weir submittal data, as described in the measurement and payment section of these specifications.

### C. The Work also includes:

- 1. Furnishing of all labor, material, shoring and sheeting, dewatering and dewatering permits, maintenance of traffic, permits not acquired by owner, dock and park fees, superintendence, plant, power, light, heat, fuel, water, tools, appliances, equipment, supplies, services and other means of construction necessary or proper for performing and completing the Work.
- 2. Sole responsibility for adequacy of plant and equipment.
- 3. Maintaining the Work area and site in a clean and acceptable manner.
- 4. Maintaining existing facilities in service at all times.
- Protection of finished and unfinished Work.
- 6. Repair and restoration of Work or existing facilities damaged during construction.
- 7. Furnishing as necessary proper equipment and machinery, of a sufficient capacity, to facilitate the Work and to handle all emergencies normally encountered in Work of this character.
- 8. Furnishing, installing, and protecting all necessary pipes, structures, guides, track rails, bearing plates, anchor and attachment bolts, and all other appurtenances needed for the installation of the devices included in the equipment specified. Make anchor bolts of appropriate size, strength and material for the purpose intended. Furnish substantial templates and shop drawings for installation.
- D. Implied and Normally Required Work: It is the intent of these Specifications to provide the City with complete operable systems, subsystems and other items of Work. 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, , which is reasonably implied or normally required to make each installation satisfactorily and completely operable, is deemed to be included in the Work and the Contract Amount and shall be performed by the CONTRACTOR as though it were specifically delineated or described. All miscellaneous appurtenances and other items of Work incidental to meeting the intent of these Specifications are included in the Work and the Contract Amount even though these appurtenances may not be specifically called for in these Specifications.

E. Quality of Work: Regard the apparent silence of the Contract Documents 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 as meaning that only the best general practice is to prevail and that only materials and workmanship of the best quality are to be used. Interpretation of these specifications will be made upon this basis.

# 1.3 ORDER OF PRECEDENCE

- A. The several parts of the Contract are intended to be complimentary in describing the Work and the responsibilities of the Contractor and the City and any requirements stipulated in one part of the Contract Documents is as binding on the parties as though occurring in all. In the event there are any conflicting provisions or requirements among the Contract Documents, the provisions and requirements of the Contract Documents shall take the following order of precedence:
  - 1. Change Orders, Work Directives, and Contract Amendments
  - 2. Construction Contract
  - 3. Special Conditions
  - 4. Supplemental General Conditions
  - 5. General Conditions
  - 6. Technical Specifications
  - 7. Construction Plans/Drawings

In case of discrepancy concerning dimension, quantity, and location, graphic drawings will take precedence over the specifications; explanatory notes on the drawings will take precedence over conflicting drawn indications; and large scale details will take precedence over smaller scaled drawings. In case of discrepancy concerning quality and/or quantity within the documents, the Contractor shall include the better quality and/or the greater quantity, unless otherwise determined in writing by the City.

Interpretations and resolution of discrepancies within the Contract Documents shall be made solely by the City's Designee and issued in writing upon receipt of the Contractor's written request.

# 1.4 VIBRIATION MONTIORING

A. The Contractor shall hire a third-party independent consultant who specializes in

- vibration monitoring to be responsible for providing, monitoring, locating/relocating equipment, calibrating, maintaining all vibration monitoring equipment, and providing reports to the Engineer and Owner.
- B. Vibration monitoring shall be continuous during all construction operations. Vibrations shall be monitored by the placement of seismographs/sensors strategically placed between the construction operations and nearest structures adjacent to the project area. The locations of the seismographs/sensors will be moved as the excavation equipment moves along the project site during dredging, channel armoring, hardscape improvements, sheeting and shoring, backfilling and compacting, restoration activities. The number of seismographs to be used during construction shall be determined by the Contractor's selected testing firm. Minimum requirements of the seismic monitoring are listed below:
  - 1. An additional seismograph unit (i.e., a spare unit) shall be available at all times for use as a spare in the event that one of the primary units fails to operate correctly.
  - 2. Since the seismographs may not be continuously monitored by the operator during construction, protection shall be provided around the sensors so that they are not disturbed. The protection shall be such that the seismograph sensors can be identified by homeowners or service personnel, and in a way that will prevents others from bumping or disturbing them.
  - 3. The operator of the seismographs shall identify specific setup locations each time the units are moved and shall document when they are deployed at each location. Locations by northing and easting coordinates are required and shall also be documented on the record set of plans, shown measured from at least two permanent reference points.
  - 4. It is understood that the seismic monitoring data will be downloaded on a regular basis and incorporated into weekly reports. Vibratory monitoring reports shall be signed and sealed by a registered Florida Professional Engineer. These reports shall be forwarded to the Engineer and Owner.
  - 5. It is also understood that the seismographs will be set to notify all team members, including the Engineer and Owner, via text message if the specified vibration threshold level is exceeded.
- C. Vibration Threshold Level: Collier County has established rules defining the maximum permissible vibration level associated with blasting operations, as outlines in Section 55-13 of the Collier County Laws & Ordinances, commonly referred to as the "Collier County Explosives Regulations." This section of the code limits the resultant peak particle velocity to 0.50 inches per second or less. Furthermore, the code mandates an "80% rule" indicating that if 80% of the maximum resultant peak particle velocity is exceeded, operations must cease until actions can be taken to assure that the maximum 0.50 inches per second resultant peak particle velocity is not exceeded.

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Accordingly, the seismographs shall be set at a maximum permissible resultant peak particle velocity of 0.40 inches per second. All team members, including the Engineer and Owner, shall be notified immediately if the resultant peak particle velocity exceeds 0.40 inches per second so that further action can be taken.

It is noted that studies performed by the United States Bureau of Mines (USBM) and other authorities in the field of vibrations and their effects on structures have resulted in criteria based on Resultant Peak Particle Velocity as measured in units of inches per second. Should it be determined that the work cannot be performed without exceeding the 0.50 inches per second resultant peak particle velocity established by Collier County, these studies can be discussed with all team members to determine if the maximum vibration threshold limit can be raised.

#### 1.5 CONTRACTOR'S USE OF SITE

- Α. Limit use of site and premises for work and storage to allow for the following:
  - 1. Coordination of the Work under this CONTRACT with the work of the other contractors where Work under this CONTRACT encroaches on the Work of other contractors.
  - 2. City occupancy and access to operate existing facilities.
  - 3. Coordination of site use with ENGINEER.
  - 4. Responsibility for protection and safekeeping of products under this CONTRACT.
  - 5. Providing additional off-site storage at no additional cost to the City as needed.
- В. Use of Premises: Contractor shall confine all construction equipment, the storage of materials and equipment and the operations of workers to the Project Site and land and areas identified in and permitted by the Contract Documents and other lands and areas permitted by law, rights of way, permits and easements, and shall not unreasonably encumber the Project site with construction equipment or other material or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or any land or areas contiguous thereto, resulting from the performance of the Work.
- C. Contractor shall be responsible for payment of all fees and permits associated with mobilizing equipment, labor, and material to and from water.

#### 1.6 **WORK SEQUENCE**

Construct Work in stages to accommodate the City's use of premises during Α. construction period and in accordance with the limitations on the sequence of construction specified. Coordinate construction schedules and operations with ENGINEER. The Contractor shall not open up work to conflict with work already in progress. The Engineer may, however require the Contractor to finish a section on which work is in progress prior to starting another section.

B. Coordinate Work of all subcontractors.

# 1.7 CITY OCCUPANCY

- A. The City will occupy premises during entire period of construction in order to maintain normal operations. Cooperate with the City's Manager or designee in all construction operations to minimize conflict, and to facilitate City usage.
- B. Conduct operations with the least inconvenience to the general public.

### 1.8 PROTECTION OF EXISTING UTILITIES

A. In case of damage to existing utilities caused by construction activities, contact the owner of the utility or appropriate City department (Stormwater, Water or Wastewater) immediately. Repair any damage to existing utilities caused by construction activities in coordination with or as directed by the owner of the utility.

Contractor shall locate all existing roadways, railways, drainage facilities and utility services above, upon, or under the Project site, said roadways, railways, drainage facilities and utilities being referred to in this Section as the "utilities". Contractor shall contact the owners of all Utilities to determine the necessity for relocating or temporarily interrupting any Utilities during the construction of the Project. Contractor shall schedule and coordinate its Work around any such relocation or temporary service interruption. Contractor shall be responsible for properly shoring, supporting and protecting all Utilities at all times during the course of the Work. The Contractor shall conduct his work at all times such that adequate drainage is provided and shall not interfere with or block existing drainage facilities such as gutters, ditches, storm drains, or other drainage appurtenances. Existing fire hydrants adjacent to the project shall be kept accessible for fire apparatus at all times and no material or equipment shall be placed within 25 feet of any hydrant.

### PART 2 PRODUCTS

Not Used

# PART 3 EXECUTION

A. Starting Work: Start Work within 10 days following the date stated in the Notice to Proceed and execute with such progress as may be required to prevent delay to

other contractors or to the general completion of the project. Execute Work at such items and in or on such parts of the project, and with such forces, material and equipment, as to complete the Work in the time established by the Contract. At all times, schedule and direct the Work so that it provides an orderly progression to completion within the specified time for completion. The Contractor shall obtain all necessary building permits prior to commencement of work. The Contractor shall become totally familiar with the requirements of all permits prior to start of work.

B. Intent of Contract Documents: It is the intent of the Contract Documents to describe a functionally complete project (or portion thereof) to be constructed in accordance with the Contract Documents. Any work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe work, materials or equipment, such works shall be interpreted in accordance with that meaning. Reference to standards specifications, manuals or codes of any technical society, organization or association or to the laws or regulations of any governmental authority having jurisdiction over the Project, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in affect at the time the Work is performed, except as may be otherwise specifically stated herein.

If before or during the performance of the Work Contractor discovers a conflict, error or discrepancy in the Contract Documents, Contractor immediately shall report same to the Engineer in writing and before proceeding with the Work affected thereby shall obtain a written interpretation or clarification from the Engineer. Contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to Contractor with the Contract Documents before commencing any portion of the Work.

Drawings are intended to show general arrangements, design and extent of work and are not intended to serve as shop drawings. Specifications are separated into divisions for convenience of reference only and shall not be interpreted as establishing divisions for the Work, trades, subcontracts, or extent of any part of the Work. In the event of a discrepancy between or among the drawings, specifications or other Contract Document provisions, Contractor shall be required to comply with the provision which is the more restrictive or stringent requirement upon the Contractor, as determined by the Engineer. Unless otherwise specifically mentioned, all anchors, bolts, screws, fittings, fillers, hardware, accessories, trim and other parts required in connection with any portion of the Work to make a complete, serviceable, finished and first quality installation shall be furnished and installed as part of the Work, whether or not called for by the Contract Documents.

B. Investigation and Utilities: Contractor shall have the sole responsibility of satisfying itself concerning the nature and location of the Work and the general and local conditions, and particularly, but without limitation, with respect to the following:

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those affecting transportation, access, disposal, handling and storage of materials; availability and quality of labor; water and electric power; availability and condition of roads; work area; living facilities; climatic conditions and seasons; physical conditions at the work-site and the project area as a whole; topography and ground surface conditions; nature and quantity of the surface materials to be encountered; subsurface conditions; equipment and facilities needed preliminary to and during performance of the Work; and all other costs associated with such performance. The failure of Contractor to acquaint itself with any applicable conditions shall not relieve Contractor from any of its responsibilities to perform under the Contract Documents, nor shall it be considered the basis for any claim for additional time or compensation.

C. Schedule: The Contractor, within ten (10) calendar days after receipt of the Notice of Award, shall prepare and submit to the Engineer, for review and approval, a progress schedule for the Project (herein "Progress Schedule"). The Progress Schedule shall relate to all Work required by the Contract Documents and shall provide for expeditious and practicable execution of the Work within the Contract Time. The Progress Schedule shall indicate the dates for starting and completing the various stages of the Work. The Engineer's review and approval of the submitted Progress Schedule updates shall be a condition precedent to the City's obligation to pay Contractor.

The Progress Schedule shall be updated monthly by the Contractor. All monthly updates to the Progress Schedule shall be subject to the Engineer's review and approval. Contractor shall submit the updates to the Progress Schedule with its monthly Applications for Payment noted below.

Submittals and Substitutions: Contractor shall carefully examine the Contract D. Documents for all requirements for approval of materials to be submitted such as shop drawings, data, test results, schedules and samples. Contractor shall submit all such materials at its own expense and in such form as required by the Contract Documents in sufficient time to prevent any delay in the delivery of such materials and the installation thereof.

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by the City if sufficient information is submitted by Contractor to allow the City to determine that the material or equipment proposed is equivalent or equal to that named. Requests for review of substitute items of material and equipment will not be accepted by the City from anyone other than Contractor and all such request must be submitted by Contractor to the Engineer within thirty (30) calendar days after Notice of Award is received by Contractor.

If Contractor wishes to furnish or use a substitute item of material or equipment, Contractor shall make application to the Engineer for acceptance thereof, certifying that the proposed substitute shall perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice Contractor's achievement of substantial completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with the City for the Project) to adapt the design to the proposed substitute and whether or not the incorporation or use by the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service shall be indicated. The application also shall contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs for redesign and claims of other contractors affected by the resulting change, all of which shall be considered by the Engineer in evaluating the proposed substitute. The Engineer may require Contractor to furnish at Contractor's expense additional data about the proposed substitute.

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the Engineer, if Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedures for submission to and review by the Engineer shall be the same as those provided herein for substitute materials and equipment.

The Engineer shall be allowed a reasonable time within which to evaluate each proposed substitute. The Engineer shall be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without the Engineer's and the City's prior written acceptance which shall be evidenced by either a Change Order or an approved Shop Drawing. The City may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

- E. Daily Reports, As-Builts and Meetings: Unless waived in writing, the Contractor shall complete and submit to the Engineer on a weekly basis a daily log of the Contractors work for the preceding week in a format approved by the Engineer. The daily log shall document all activities of Contractor at the Project site including, but not limited to, the following:
  - Weather conditions showing the high and low temperatures during work hours, the amount of precipitation received on the Project site, and any other weather conditions which adversely affect the Work;
  - 2. Soil conditions which adversely affect the Work;
  - 3. The hours of operation by Contractor's and subcontractor's personnel;
  - 4. The number of Contractor's and subcontractor's personnel present and working at the Project site, by subcontract and trade;

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- 5. All equipment present at the Project site, description of equipment use and designation of time equipment was used (specifically indicating any down time):
- 6. Description of Work being performed at the Project site:
- 7. Any unusual or special occurrences at the Project site:
- 8. Materials received at the Project site:
- 9. A list of all visitors to the Project site; and
- 10. Any problems that might impact either the cost or quality of the Work or the time of performance.

The daily log shall not constitute nor take the place of any notice required to be given by Contractor to the City pursuant to the Contract Documents.

Contractor shall maintain in a safe place at the Project site one record copy of the Contract Documents, including, but not limited to, all drawings, specifications, addenda, amendments, Change Orders, Work Directive Changes and Field Orders, as well as all written interpretations and clarifications issued by the Engineer, in good order and annotated to show all changes made during construction. The annotated drawings shall be continuously updated by the Contractor throughout the prosecution of the Work to accurately reflect all field changes that are made to adapt the Work to field conditions, changes resulting from Change Orders, Work Directive Changes and Field Orders, and all concealed and buried installations of piping, conduit and utility services. All buried and concealed items, both inside and outside the Project site, shall be accurately located on the annotated drawings as to depth and in relationship to not less than two (2) permanent features (e.g. interior or exterior wall faces). The annotated drawings shall be clean, and all changes, corrections and dimensions shall be given in a neat and legible manner in a contrasting color. The "As-Built" record documents, together with all approved samples and a counterpart of all approved shop drawings shall be available to the Engineer for reference. "As-built" record documents shall be submitted with each application for payment. The Engineer's review and acceptance of the submitted "As-builts" shall be a condition precedent to the City's obligation to pay Contractor. Upon completion of the Work and as a condition precedent to the Contractor's entitlement to final payment, samples and shop drawings shall be delivered to the Engineer by Contractor.

Contractor shall keep all records and supporting documentation which concern or relate to the Work hereunder for a minimum of five (5) years from the date of termination of this Agreement or the date the Project is completed, whichever is later. The City, or any duly authorized agents or representatives of the City, shall have the right to audit, inspect and copy all such records and documentation as often as they deem necessary during the period of this Agreement and during the five (5) year period noted above; provided, however, such activity shall be conducted only during normal business hours.

F. Contract Time and Time Extensions: Should Contractor be obstructed or delayed in the prosecution of or completion of the Work as a result of unforeseeable causes beyond the control of the Contractor, and not due to its fault or neglect,

including but not restricted to acts of God or of the public enemy, acts of government, fires, floods, epidemics, quarantine regulation, strikes or lockouts, Contractor shall notify the City in writing within forty-eight (48) hours after the commencement of such delay, stating the cause or causes thereof, or be deemed to have waived any right which Contractor may have had to request a time extension.

No interruption, interference, inefficiency, suspension or delay in the commencement or progress of the Work from any cause whole or in part, shall relieve Contractor of his duty to perform or give rise to any right to damages or additional compensation from the City. Contractor expressly acknowledges and agrees that it shall receive no damages for delay. Contractor's sole remedy, if any, against the City will be the right to seek an extension to the Contract Time; provided, however, the granting of any such time extension shall not be a condition precedent to the aforementioned "No Damage For Delay" provision. This paragraph shall expressly apply to claims for early completion, as well as to claims based on late completion.

- G. Changes in Work: The City shall have the right at any time during the progress of the Work to increase or decrease the Work. Promptly after being notified of a change, Contractor shall submit an itemized estimate of any cost or time increases or savings it foresees as a result of the change. Except in an emergency endangering life or property, or as expressly set forth herein, no addition or changes to the Work shall be made except upon written order of the City, and the City shall not be liable to the Contractor for any increased compensation without such written order.
- H. Claims and Disputes: A claim is a demand or assertion by one of the parties seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term "Claim" also includes other disputes and m at ters in question between the City and Contractor arising out of or relating to the Contract Documents.

The responsibility to substantiate a Claim shall rest with the party making the Claim.

Claims by the Contractor shall be made in writing to the City within forty-eight (48) hours after the first day of the event giving rise to such Claim or else the Contractor shall be deemed to have waived the Claim. Written supporting data shall be submitted to the City within fifteen (15) calendar days after the occurrence of the event, unless the City grants additional time in writing, or else the Contractor shall be deemed to have waived the Claim. The Contractor shall proceed diligently with its performance as directed by the City, regardless of any pending claim, action, suit or administrative proceeding, unless otherwise agreed to by the City in writing. The City shall continue to make payments in accordance with the Contract Documents during the pendency of any Claim.

I. Other Work: The City may perform other work related to the Project at the site by the City's own forces, have other work performed by utility owners or let other direct contracts. If the fact that such other work is to be performed is not noted in the Contract Documents, written notice thereof will be given to Contractor prior to starting any such other work. If Contractor believes that such performance will involve additional expense to Contractor or require additional time, Contractor shall send written notice of that fact to the City within forty-eight (48) hours of being notified of the other work. If the Contractor fails to send the above required fortyeight (48) hour notice, the Contractor will be deemed to have waived any rights it otherwise may have had to seek an extension to the Contract Time or adjustment to the Contract Amount.

Attachment A-1 : Scope of Services

Contractor shall afford each utility owner and other contractor who is a party to such a direct contract (or the City, if the City is performing the additional work with the City's employees) proper and safe access to the site and a reasonable opportunity for execution of such work and shall properly connect and coordinate its Work with theirs. Contractor shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work, Contractor shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of the Engineer and the others whose work will be affected. The duties and responsibilities of Contractor under this paragraph are for the benefit of such utility owners and other Contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between the City and such utility owners and other contractors.

If any part of Contractor's Work depends for proper execution or results upon the work of any other contractor or utility owner (or the City), Contractor shall inspect and promptly report to the Engineer in writing any delays, defects or deficiencies in such work that render it unavailable or unsuitable for such proper execution and results. Contractor's failure to report will constitute an acceptance of the other work as fit and proper for integration with Contractor's Work.

- J. Compliance with Laws: Contractor agrees to comply, at its own expense, with all federal, state and local laws, codes, statutes, ordinances, rules, regulations and requirements applicable to the Project, including but not limited to those dealing with taxation, worker's compensation, equal employment and safety (including, but not limited to, the Trench Safety Act, Chapter 553, Florida Statutes). If Contractor observes that the Contract Documents are at variance therewith, it shall promptly notify the Engineer in writing.
- K. Assignment: Contractor shall not assign this Agreement or any part thereof, without the prior consent in writing of the City. If Contractor does, with approval, Assign this Agreement or any part thereof, it shall require that its assignee be bound to it and to assume toward Contractor all of the obligations and responsibilities that Contractor has assumed toward the City.
- Permits, Licenses and Taxes: Pursuant to Section 218.80, F.S., the City will pay for L.

all permits and fees, including license fees, permit fees, impact fees or inspection fees applicable to the work, and due to the City of Naples, through an internal budget transfer(s). Contractor is not responsible for paying for permits issued by The City of Naples but is responsible for acquiring all permits.

All permits, fees and licenses necessary for the prosecution of the Work which are not issued by the City shall be acquired and paid for by the Contractor, unless otherwise noted.

- M. Termination for Default: Contractor shall be considered in material default of the Agreement and such default shall be considered cause for the City to terminate the Agreement, in whole or in part, as further set forth in this Section, if Contractor:
  - 1 fails to begin the Work under the Contract Documents within the time specified herein; or
  - 2 fails to properly and timely perform the Work as directed by the Engineer or as provided for in the approved Progress Schedule; or
  - 3 performs the Work unsuitably or neglects or refuses to remove material or to correct or replace such Work as may be rejected as unacceptable or unsuitable; or
  - 4 discontinues the prosecution of the Work; or
  - 5 fails to resume Work which has been suspended within a reasonable time after being notified to do so; or
  - 6 becomes insolvent or is declared bankrupt, or commits any act of bankruptcy; or
  - 7 allows any final judgment to stand against it unsatisfied for more than ten (10) days; or
  - 8 makes an assignment for the benefit of creditors; or
  - 9 fails to obey any applicable codes, laws, ordinances, rules or regulations with respect to the Work; or
  - 10 materially breaches any other provision of the Contract Documents.

The City shall notify Contractor in writing of Contractor's default(s). If the City determines that Contractor has not remedied and cured the default(s) within seven (7) calendar days following receipt by Contractor of said written notice, then the City, at its option, without releasing or waiving its rights and remedies against the Contractor's sureties and without prejudice to any other right or remedy it may be entitled to hereunder or by law, may terminate Contractor's right to proceed under the Agreement, in whole or in part, and take possession of all or any portion of the Work and any materials, tools, equipment, and appliances of Contractor, take assignments of any of Contractor's subcontracts and purchase orders, and complete all or any portion of Contractor's Work by whatever means, method or agency which the City, in its sole discretion, may choose.

If the City deems any of the foregoing remedies necessary, Contractor agrees that it shall not be entitled to receive any further payments hereunder until after the Project is completed. All monies expended and all of the costs, losses, damages and extra expenses (including Engineer and attorney's fees) or damages incurred by The City incident to such completion, shall be deducted from the Contract

Amount. Contractor agrees to pay promptly to the City on demand the full amount (including appeals) and interest thereon at the maximum legal rate of interest until paid. If the unpaid balance of the Contract Amount exceeds all such costs, expenditures and damages incurred by the City to complete the Work, such excess shall be paid to the Contractor. The amount to be paid to the Contractor shall be approved by the Engineer, upon application, and this obligation for payment shall survive termination of the Agreement.

The liability of Contractor hereunder shall extend to and include the full amount of any and all sums paid, expenses and losses incurred, damages sustained, and obligations assumed by The City in good faith under the belief that such payments or assumptions were necessary or required, in completing the Work and providing labor, materials, equipment, supplies, and other items therefore or re-letting the Work, and in settlement, discharge or compromise of any claims, demands suits, and judgments pertaining to or arising out of the work hereunder.

If, after notice of termination of contractor's right to proceed pursuant to this Section, it is determined for any reason that Contractor was not in default, or that its default was excusable, or that the City is not entitled to the remedies against Contractor provided herein, then Contractor's remedies against the City shall be the same as and limited to those afforded Contractor under "Completion" section below.

N. Termination for Convenience and Right of Suspension: The City shall have the right to terminate this Agreement without cause upon seven (7) calendar days written notice to Contractor. In the event of such termination for convenience, Contractor's recovery against the City shall be limited to that portion of the Contract Amount earned through the date of termination, together with any retainage withheld and reasonable termination expenses incurred, but Contractor shall not be entitled to any other or further recovery against the City, including, but not limited to, damages or any anticipated profit on portions of the Work not performed.

The City shall have the right to suspend all or any portions of the Work upon giving Contractor not less than two (2) calendar days' prior written notice of such suspension. If all or any portion of the Work is so suspended, Contractor's sole and exclusive remedy shall be to seek an extension of time to its schedule in accordance with the procedures set forth in the Contract Documents. In no event shall the Contractor be entitled to any additional compensation or damages. Provided, however, if the ordered suspension exceeds six (6) months, the Contractor shall have the right to terminate the Agreement with respect to that portion of the Work which is subject to the ordered suspension.

O. Completion: When the entire Work (or any portion thereof designated in writing by the City) is ready for its intended use, Contractor shall notify the Engineer in writing that the entire Work (or such designated portion) is substantially complete and request that the Engineer issue a Certificate of Substantial completion (or Certificate of Partial Substantial Completion). Within a reasonable time thereafter, the City, Contractor and Engineer shall make an inspection of the Work (or designated portion thereof) to determine the status of completion. If the City and Engineer do not consider the Work (or designated portion) substantially complete, the Engineer shall notify Contractor in writing giving the reasons therefore. If the City and Engineer consider the Work (or designated portion) substantially complete, the Engineer shall prepare and deliver to Contractor a Certificate of Substantial Completion (or Certificate of Partial Substantial Completion) which shall fix the date of Substantial Completion for the entire Work (or designated portion thereof) and include a tentative punch list of items to be completed or corrected by Contractor before final payment. The City shall have the right to exclude Contractor from the Work and Project site (or designated portion thereof) after the date of Substantial Completion, but the City shall allow Contractor reasonable access to complete or correct items on the tentative punch list.

Upon receipt of written certification by Contractor that the Work is completed in accordance with the Contract Documents and is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Engineer will make such inspection and, if he finds the Work acceptable and fully performed under the Contract Documents, he shall promptly issue a final Certificate for Payment, recommending that, on the basis of his observations and inspection, and the Contractor's certification that the Work has been completed in accordance with the terms and conditions of the Contract Documents, that the entire balance found to be due Contractor is due and payable. Neither the final payment nor the retainage shall become due and payable until Contractor submits: all data establishing payment or satisfaction of all obligations, such as receipts, releases and waivers of liens, arising out of the Contract Documents, to the extent and in such form as may be designated by the City. The City reserves the right to inspect the Work and make an independent determination as to the Work's acceptability, even though the Engineer may have issued his recommendations. Unless and until the City is completely satisfied, neither the final payment nor the retainage shall become due and payable.

Ρ. Warranty: Contractor shall obtain and assign to the City all express warranties given to Contractor or any subcontractors by any materialmen supplying materials, equipment or fixtures to be incorporated into the project. Contractor warrants to the City that any materials and equipment furnished under the Contract Documents shall be new unless otherwise specified, and that all Work shall be of good quality. free from all defects and in conformance with the Contract Documents. Contractor further warrants to the City that all materials and equipment furnished under the Contract Documents shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturers, fabricators, suppliers or processors except as otherwise provided for in the Contract Documents. If, within one (1) year after final completion, any Work is found to be defective or not in conformance with the Contract Documents. Contractor shall correct it promptly after receipt of written notice from the City. Contractor shall also be responsible for and pay for replacement or repair of adjacent materials or Work which may be damaged as a result of such replacement or repair. These warranties are in addition to those implied warranties to which the City is entitled as a matter of law.

- Q. Supervision and Superintendents: Contractor shall plan, organize, supervise, schedule, monitor, direct and control the work competently 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. Contractor shall be responsible to see that the finished work complies accurately with the Contract Documents. Contractor shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without prior written notice to the Engineer except under extraordinary circumstances. The superintendent shall be Contractor's representative at the Project site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to the Contractor. The City shall have the right to direct Contractor to remove and replace its Project superintendent, with or without cause.
- R. Protection of Work: Contractor shall fully protect the Work from loss or damage and shall bear the cost of any such loss or damage until final payment has been made. If Contractor or any one for whom Contractor is legally liable for is responsible for any loss or damage to the Work, or other work or materials of the City or the City's separate contractors, Contractor shall be charged with the same, and any monies necessary to replace such loss or damage shall be deducted from any amounts due Contractor.

Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

Contractor shall not disturb any benchmark established by the Engineer with respect to the Project. If Contractor, or its subcontractors, agents or anyone for whom Contractor is legally liable, disturbs the Engineer's benchmark, Contractor shall immediately notify The City and Engineer. The Engineer shall reestablish the benchmark and Contractor shall be liable for all costs incurred by The City associated therewith.

S. Emergencies: In the event of an emergency affecting the safety or protection of persons or Work or property at the Project site of adjacent thereto, Contractor, without special instructions or authorization from the City or Engineer is obligated to act to prevent threatened damage, injury or loss. Contractor shall give Engineer written notice within forty-eight (48) hours after the occurrence of the emergency, if Contractor believes that after the occurrence of the emergency, if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If the Engineer determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Change Order shall be issued to document the consequences of the changes or variations. If Contractor fails to provide the forty-eight (48) hour written notice noted above, the Contractor shall be deemed to have waived any right it otherwise may have had to seek an adjustment to the Contract Amount or an extension to the Contract Time.

- Τ. Project Meetings: Prior to the commencement of Work, the Contractor shall attend a preconstruction conference with the Engineer and others as appropriate to discuss the Progress Schedule, procedures for handling shop drawings and other submittals, and for processing Applications for Payment, and to establish a working understanding among the parties as to the Work. During the prosecution of the Work, the Contractor shall attend any and all meetings convened by the Engineer or the City with respect to the Project, when directed to do so. Contractor shall have its subcontractors and suppliers attend all such meetings (including the preconstruction conference) as may be directed by the City or Engineer.
- U. Traffic Control Plan: A traffic control plan to support the Contractor's operations shall be submitted at least 72 hours prior to commencing work that shall conform to the Florida Department of Transportation's "Manual on Traffic Control and Safe Practices" which shall be obtained by the Contractor at his expense.
- V. Hours of Work: Work within the travelled way of the project shall commence no earlier than 7:00 a.m. local time and be completed no later than 7:00 p.m. local time. Hours of work may be altered at any time at the discretion of the City.
- W. Tax Exemption: The City of Naples is exempt from the payment of sales or use tax. The tax exemption certificate number is: 85-8012621645C-0.

#### PART 4 **SAFETIES**

- Contractor shall be responsible for initiating, maintaining and supervising all safety Α. 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:
  - All employees on the Work and other persons and/or organizations 1. who may be affected thereby;
  - All the Work and materials and equipment to be incorporated therein, 2. whether in storage on or off the Project site; and
  - Other property on Project site or adjacent thereto, including trees, 3. shrubs, walks, pavements, roadways, structures, utilities and any underground structures or improvements not designated for removal, relocation or replacement in the Contract Documents.
- Contractor shall comply with all applicable codes, laws, ordinances, rules and B. regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground structures and improvements and utility-owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation or replacement of their property. Contractor's duties and responsibilities for the safety and

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- protection of the Work shall continue until such time as the Work is completed and final acceptance of same by The City has occurred.
- C. Contractor shall designate a responsible representative at the Project site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to The City.

**END OF SECTION** 

# **EXHIBIT B**

### BASIS OF COMPENSATION

As consideration for providing the Services as set forth in the Agreement, the CITY agrees to pay, and the CONTRACTOR agrees to accept payment on a time and reimbursement cost basis as indicated in Attachment B-1 which is attached and made a part of this Agreement. The CITY is adding a separate \$118,014.55 CITY controlled Contingency to the issuance of this Agreement with the removal of Alternate Bid Items A-D2 (\$1,298,160.05 -251,635.00) making the total amount of the Agreement at \$1,046,525.05.

Retainage of (10%) ten percent will be a part of said agreement and future payments.

**END OF EXHIBIT B** 

# REVISED BID TABULATION - Addendum 2 BID TABULATION 19-015 Cove Outfall Improvements

sire :	Water/Quality limprovemer Dredging, Armoring, Living Shorelli	nts at the Co ne and Sidey	ve Guttali Valk Impro	vernents	
m No.	DESCRIPTION (Furnished & Installed)	ONIT	QΤΥ	UNIT PRICE	TOTAL AMOUN
1	Mobilization/Demobilization	LS	1	180,000.0	180,000-0
2	Construction Surveying and Stake-out (Incl. Rec Dwg)	LS	1	25,000-00	25.0000
<u> </u>	Access, Erosion and	Furbidity Contr	ol	Subtotal	20.5,000.0
3	Staked Silt Fence	LF	1,075	2-25	2,4(8.75
4	Floating/Staked Turbidity Barrier	Į.Ę.	350	0.00	3,500.0
<u>5</u>	Erosion and Turbidity Control Monitoring/Maintenance MOT & Traffic Control	Day. Day.	120	300.W	36,000.W
7	Temporary 6' Chain Link Fence	LF	1,155	10.00	11.550.0
				Subjotal	75.668
	Dredge, Dispos		1	100000000000000000000000000000000000000	
8 .	Dredge, Disposal and Fill   Drainage Str	LS uctures	<u>                                     </u>	110,000,00	110,000.00
9	Type 'C' Iniet	EA	1	3,000.00	3,000.0
10	15" Contech A2 Liner Pipe	LF .	13	l20.00	1560.00
	Channel/Shorelin			Subtotal	114,560,0
111	Large Washed Shall	TON	12	115.00	1.380.0
12	Shet Bags (Filled with Large Washed Shell)	TON	106	255.00	727,030
13	Type A Riprap (6" Average Dia) (including Geotextile Fabric)	, TON	. 60 .	105.00	(0,300.0
14	RPCC Layer 1 RPCC Layer 2	TON	80 104	110.00	6,800 c
16	RPCC Layer 3 (including Geotextile Fabric where applicable)	TON	1,400	90.00	126.00
47	RPCC Layer 4	TON	234	15.00	126,000. 26,910 15,000.0
18	Remove and Replace Wood Barrier	LS	1	15,000.0	15,000.0
· · ·	Living Shorelin	e Plantino		GODIOIA)	232,860
:19	Spartina - Furnish & Install (4" Containerized @ 12" O.C.)	EA	5,000	2,80	14.000-0
20	Red Mangroves - Rhizophora Mangle (3 gallon container)	EA	8	90.00	720.0
•	Landscap	3	10,17	Subtotal	14,7200
21	Selective Clearing and Grubbing	SY	-24	28500	6840.0
22	Earthwork	, CY	24	65.00	1.560.0
23:	Planting Soil and Soil Amendments	CY	24	70.00	1,1080
24 25	Root Barrier Trees	LF EA	165	700.00	3.475
26	Palms	EA.	. 18	2.100.0	16,800
27	Shrub and Groundcover	SF	605	2.65	1.603.2
28	Mulch (3-inch depth)	CF:	1,920	3.00	\$ 760.0
29	Inigation System  Jack and Bore (Inigation sleeves)	LS:	900	1.25 5,500	6,525.0 5,500.0
,00.	and an pois (ingenerations)	<u> </u>		Subtotal	50, 143.2
	Hardscape Imp			,	
31	Existing Sidewalk demolition	SF EA	2,631	3,250.00	3946.5
32 33	AE2680STX - 6* Contour Bench AE2645CT - STX / 45 Gal. TR	EA	. 4	3,300.00	4,600-0
34	Educational Signs.	EA	2	-5.000.W	10,000-0
35	Metal Hand Railing / Post & Cable	LF	303	570.0	172.010
36 37	Guardrail including transition barrier wall Brick Pavers	LF SF	133 1,695	6.00	87, 115.0
38	Brick Pavers Brick Paver Subbase - 8*	SY	300	16.50	4950
	Concrete	CY	7	460-00	3,220.
39	Curb Type D Milling Existing Asphalt	LF CV	303	19.00	5757.0
40	TRANSPORT LANGUAGE GOODS	SY	120	5.50 6.50	2,420.
40 41	1			12.75	15361
40	Road Restoration - Stabilized Subgrade  Road Restoration - Limerock Base (6-Inch Limerock Base)	SY-	.120		
40 41 42 43 44	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2" Asphalt - Type SP-12.5 (First Lift)	SY SY	440	20-00	4) 200°
40 41 42 43 44 45	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2* Asphalt - Type SP-12.5 (First Lift) 1* Asphalt - Type SP-9.5, Traff. Lvl. C (Second Lift)	SY SY SY	440 440	20.00 13.50.	
40 41 42 43 44 45 46	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2" Asphalt - Type SP-12.5 (First Lift) 1" Asphalt - Type SP-9.5, Traff. Lvf. C (Second Lift) Concrete Buikhead	SY SY SY CY	440 440 5	20-07  3.50 2,250.00	11,250-
40 41 42 43 44 45	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2* Asphalt - Type SP-12.5 (First Lift) 1* Asphalt - Type SP-9.5, Traff. Lvl. C (Second Lift)	SY SY SY	440 440	20.00  3.50.  2,250.00  60.00	11,250.
40 41 42 43 44 45 46 47	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2" Asphalt - Type SP-12.5 (First Lift) 1" Asphalt - Type SP-9.5, Traff. Lvl. C (Second Lift) Concrete Buikhead Concrete Pad (benches and trash cans)	SY SY SY CY SY	440 440 5 8	20-07  3.50 2,250.00	7 480.0 550.0 7 80.0
40 41 42 43 44 45 48 47 48	Road Restoration - Stabilized Subgrade Road Restoration - Limerock Base (6-Inch Limerock Base) 1-1/2" Asphalt - Type SP-12.5 (First Lift) 1" Asphalt - Type SP-9.5, Traff. Lvf. C (Second Lift) Concrete Buikhead Concrete Pad (benches and trash cans) ADA Stdewalk Tile	SY SY SY CY SY	440 440 5 8	20.00  3.50  2,250.00  60.00  3,75.00	11,250. 480.4 550.4

50:	Mobilization/Demobilization (5% Base Bid)	LS	7.149	7.295.00	7,295.0
51	Traffic Control	LS	-1	3,400.00	3,400.0
52	Poliution Control Structure	LS	1	CO. 000 . IS	121,000
63	Stormwater Infracture Modifications	LS	7/2	18,000.00	18.000
54	Remove Discharge Weir	LS	<b>11</b>	1.100.00	110000
55	Install Discharge Weir	LS	11.	3'4∞°m	<b>≥</b> 2,400×
	Pollution Control Structure	at Cambio	r Park Sub	total (items 50 - 55)	153,195.
<b>MAN</b>	TOTAL BASE BID Water C				5 212 147-04
in i	Dredging: Armoring Eivin	CONTROL OF THE PARTY OF THE PAR	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		e entre propini
	and Pollution Control		it Camrier		0.45 No. 7.66.57
í	Contingency (10% Base Bid)	LS	Arra	11X,014.55	118/014.5
		TOTAL	CONST	RUCTION COST	1,298.160
100	ALTERNATE BID I	TEMS (2)			<u>tolive, esci</u>
A,	Alternate A - DELETE WORK FOR ITEM 36 - Guardrail including transition barrier wall	<u>i</u> r	133	<b>₹655 00</b> )	-87,115.
			Ş	ubtotal Alternate A	-87 115.
B1	Alternate B1 - DELETE WORK FOR ITEM 37 - Brick Pavers and Place Concrete Sidewalk	SF	1,695	- 6.00	-10,170.
B2	Alternate B2 - DELETE WORK FOR ITEM 38 - Brick Paver Subbase - 8*	SY	300	-16.50	-4,950
		Subtotal	Alternate	B (Items B1 to B2)	~15, 120.
C	Alternate C - DELETE WORK FOR ITEMS 50 to 55 - Pollution Control Structure at Cambier Park	LS	<b>(1)</b>	-145,900°	-145,900
х.		111 11	S	ubtotal Alternate C	~145 900.
Dί	· Alternate D1 - DELETE WORK FOR ITEM 54 - Remove Discharge Web	LS	¥į.	-1,100 a)	-1,100,0
~	Alternate D2 - DELETE WORK FOR ITEM 56 Install Discharge Welr	LŜ	*	-2.400.D	-2,400.
D2	· 【《大文》《美国·文学》,从《 : 《《大学》《《大学》、《大学》《《大学》、《《大学》、《《大学》、《大学》、《大				

<sup>\*</sup>All values based on PDR estimates

This solicitation has potential for P-Card P credit card payment? If "yes," please indicate payment	XESN	<u> </u>	e e e e e e e e e e e e e e e e e e e	cept
Payment Options	YES	МО	PERCENTAGE A TERMS FOR E PAYMEN	ARLY
Is there a discount for a credit card payment?			20 1 20	
Is there an additional charge for credit card paym	ent?			
Discount for early payment?	***			
Prompt payment terms:%Days; Net 30	) Days			
Company Name: Quality Enterprises USA, Inc.  EIN: 54-0947002  Email: LGAUDIO@QEUSA.COM				
Name and Title of Individual completing this schedule:				
Louis J. Gaudio Vice	President			
(Printed Name) (Title)	•		<del></del>	
12/20	/18			
(Signature) (Date)				

### **EXHIBIT C**

### **GENERAL INSURANCE REQUIREMENTS**

The Contractor shall not commence work until he has obtained all the insurance required under this heading, and until such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work until all similar insurance required of the subcontractor has also been obtained and approved by the Owner.

Certificates of insurance must be issued by an authorized representative of the insurance company at the request and direction of the policyholder and must include sufficient information so as to identify the coverage and the contract for Owner's improvements for which they are issued. Certificates of insurance must be issued by a nationally recognized insurance company with a Best's Rating of no less than B+VII, satisfactory to the Owner, and duly authorized to do business in the state of said Contract.

The Contractor shall procure and maintain, during the life of this Contract, Workmen's Compensation Insurance for all of his employees to be engaged in work under this Contract, and he shall require any subcontractor similarly to provide Workmen's Compensation Insurance for all of the latter's employees to be engaged in such work, unless such employees are covered by the protection afforded by the Contractor's insurance. In case any employees are to be engaged in hazardous work under this Contract, and are not protected under this Workmen's Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate coverage for the protection of such employees. It is acceptable to use a State-approved Workmen's Compensation Self-Insurance fund.

The Contractor shall take out and maintain during the life of this Contract, Public Liability and Property Damage and shall include Contractual Liability, Personal Injury, Libel, Slander, False Arrest, Malicious Prosecution, Wrongful Entry or Eviction, Broad Form Property Damage, Products, Completed Operations and XCU Coverage to be included on an occurrence basis, and to the full extent of the Contract to protect him, the Owner, and any subcontractor performing work covered by this Contract from damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from operations under this contract, whether such operations be by himself or by a subcontractor, or by anyone directly or indirectly employed by either of them. The Contractor shall also maintain automobile liability insurance including "non-owned and hired" coverage. The entire cost of this insurance shall be borne by the Contractor.

The amount of such insurance shall be no less than \$1,000,000 annual aggregate for bodily injury and property damage combined per occurrence.

The City of Naples must be named as Additional Insured on the insurance certificate <u>and the following must also be stated on the certificate</u>. "These coverage's are primary to all other coverage's the City possesses for this contract only." The City of Naples shall be named as the Certificate Holder. The Certificate Holder shall read as follows:

The City of Naples 735 Eighth Street South Naples, Florida 34102

No City Division, Department, or individual name should appear on the Certificate.

No other format will be acceptable.

The Certificate must state the bid number and title.

When using the ACORD 25 - Certificate of Insurance only the most current version will be accepted.

The City of Naples requires a copy of a cancellation notice in the event the policy is cancelled. The City of Naples shall be expressly endorsed onto the policy as a cancellation notice recipient.

[If other insurance or insurance requirements or any waivers, attach as Exhibit C-1through C-\_\_]

### **EXHIBIT D**

### CERTIFICATION OF COMPLIANCE WITH IMMIGRATION LAWS

The undersigned is the Vice President of the Quality Enterprises USA, Inc., company ("the CONTRACTOR"), and hereby certifies to the following:

- 1. The CONTRACTOR is in full compliance with all provisions of the Immigration Reform and Control Act of 1986 ("IRCA"), as well as all related immigration laws, rules, regulations pertaining to proper employee work authorization in the United States.
- 2. The undersigned has verified that the CONTRACTOR has obtained and maintains on file, and will continue to obtain and maintain on file, all documentation required by law, including but not limited to, Form I-9, Employment Eligibility Verification, for all persons employed by or working for the CONTRACTOR in any capacity on any project for the City of Naples (CITY). All such persons have provided evidence of identity and eligibility to work to the CONTRACTOR in accordance with the IRCA and related law. The undersigned hereby affirms that no person has been or will be employed by the CONTRACTOR to work on projects for the CITY who is not authorized to work under law. The undersigned further affirms that the CONTRACTOR's files will be updated by written notice any time that additional employees work on projects for the CITY.
- 3. The CONTRACTOR will have its contractors, subcontractors, suppliers and vendors who are involved in projects for the CITY to sign a written acknowledgment that they too are in compliance with immigration law. It is understood that failure to do so could result in the CONTRACTOR being liable for any violation of the law by such third parties.
- 4. The CONTRACTOR will fully cooperate with and have its contractors, subcontractors, suppliers and vendors to fully cooperate with, all inquiries and investigations conducted by any governmental agency in connection with proper compliance with the laws pertaining to appropriate work authorization in the United States.
- 5. The undersigned, on behalf of the CONTRACTOR, acknowledges that this Certification may be relied upon by the CITY, its officers, directors, employees, and affiliates or related persons and entities.
- 6. If it is found that the CONTRACTOR has not complied with the laws pertaining to proper employment authorization, and any legal and administrative action ensues against the CITY, the CONTRACTOR will indemnify, defend and hold the CITY harmless along with their officers, directors, employees, and affiliated or related persons and entities.
- 7. The CONTRACTOR acknowledges that the CITY by their authorized representatives shall have the right, at any time, upon 24 hours' notice, to examine the CONTRACTOR's books and records to confirm that the CONTRACTOR is in compliance with the terms of this certification.

Louis J. Gaudio, Vice President

# **EXHIBIT E**

# **SCOPE OF SERVICES**

The Scope of Services to be provided under this Agreement are included in Attachment A-1 and Exhibit-E (Construction Plans) consisting of Pollution Control Structure at Cambier Park Set (1-8 pages) and Water Quality Improvements at the Cove Outfall Set (1-26 pages) which are attached and made a part of this Agreement and those set out in the Bid, any issued Addendum(s)(four), and Vendor's Submittal of (ITB) Invitation To Bid No.19-015, titled Cove Outfall Improvements herein referenced and made a part of this Agreement.

**END OF EXHIBIT E** 

# CITY OF NAPLES, FLORIDA

# NAPLES BAY RESTORATION & WATER QUALITY IMPROVEMENTS AT THE COVE CONSTRUCTION PLANS FOR

# POLLUTION CONTROL STRUCTURE AT CAMBIER PARK

		INDEX OF SHEETS	
DRAWING NUMBER	SHEET	SHEET DESCRIPTION	
		General	
1	G-001	COVER SHEET AND INDEX OF SHEETS	
2	G-002	GENERAL NOTES	
3	G-003	LOCATION MAP & LEGEND	
	-	Civil	
4	C-101	EXISTING SITE PLAN	
5	C-102	PROPOSED IMPROVEMENT PLAN	
6	C-103	PROPOSED IMPROVEMENT PROFILE	
7	C-501	DETAILS	
8	C-502	BEST MANAGEMENT PRACTICES	





### GOVERNING SPECIFICATIONS:

THE PROJECT DEVELOPMENT CODE;
CITY OF MAPLES;
COLLIER COUNTY;
FLORIDA DEPARTMENT OF TRANSPORTATION (FDDT);
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP);
SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD);
UNITED STATES ARMY CORPS OF ENGINEERS (USACE);
IN THE EVENT OF A CONPICT. THE MOST RESTRICTIVE APPLIES.

#### MAYOR BILL BARNETT

VICE MAYOR GARY PRICE

CITY COUNCIL REG BUXTON LINDA PENNIMAN MICHELLE MCLEOO TERRY HUTCHINSON ELLEN SEIGEL

STREETS AND STORMWATER DIRECTOR

PLANS PREPARED FOR



City of Naples Streets and Stormweter Department 295 Riverside Circle, Naples, FL 34102 Tel. (239) 213-5016 Fax. (239) 213-5010 www.naplesgov.com

#### PLANS PREPARED BY



Stantec Consulting Services Inc., 5801 Pelican Bay Boulevard, Suite 300 Naples, Fl. U.S.A. 34108 Tel. 239 649 4040

Tel. 239 649 4040 www.stantec.com Florida Certification No. 27013



Know what's below. Call before you dig.



ALL 46 HOURS SEFORE YOU DIG IT'S THE LAW DIAL \$11 INSHINE STATE OME CALL OF FLORIDA. INC. BID SET

CIVIL & MECHANICAL ENGINEER OF RECORD-KELLY BLAKE SMITH, P.E.

KELLY BLAKE SMITH, P.E. NO. 69876

ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN REDUCED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA

STANTEC PROJECT NO. 177310582 OCTOBER, 2018

#### **GENERAL NOTES:**

- 1. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY/COUNTY. WHERE CONFLICTS OR OMISSIONS EXIST, THE CITY OF NAPLES STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE CITY OF
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN THE CITY OF NAPLES, STREETS AND STORM WATER DEPARTMENT, UTLIES DEPARTMENT, PARKS DEPARTMENT, ENGINEER OF RECORD, CONTRACTOR, AND OTHER INTERESTED PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS 01600 MATERIAL AND EQUIPMENT.
- 4. ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED BY ENGINEER PRIOR TO CONSTRUCTION, ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS 01600 MATERIAL AND EQUIPMENT.
- CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES (SUNSHINE STATE ONE CALL, 1-800-432-4770) FOR UTILITY LOCATES AT LEAST 48 HOURS (2 BUSINESS DAYS) PRIOR TO CONSTRUCTION OPERATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGH THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEMLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- 7. ALL ELEVATIONS ARE BASED UPON MEAN SEA LEVEL, 1988 NAVO.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OF FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS, REQUIRED OWNER/ENGINEER APPROVED SUBMITTALS, AND ANY OTHER EGULATOR FOR MALL OF THE PERMITTING AND ANY OTHER REQUIATORY AUTHORITIES, ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT RIGHT-OF-WAY PERMIT APPLICATION THROUGH CITY OF NAPLES STREETS AND TRAFFIC DIVISION SHOWING MAINTENANCE OF TRAFFIC AND ANY ROAD OR LANE CLOSURES.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, PAKEMENT, SIDEMALKS, SIGNER, STORM CULVERTS, FENCES AND LANDSCAPING AS REQUIRED BY OWNER, ENGINEER OF RECORD, AND/OR OTHER GOVERNING ENTITIES.
- ALL DISTURBED AREAS SHALL BE RESTORED, INCLUDING REGRADING, TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR REGRADING AND REPLANTING VEGETATION IN ALL AREAS DISTURBED BY THE CONSTRUCTION.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL CLEARED VEGETATION WITHIN FIVE (5) DAYS OF CLEARING AND GRUBBING WORK. SITE SHALL BE CLEANED PRIOR TO WEEKENDS.
- 14. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.
- 15. ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE BIDDING OR COMMENCING WORK.
- 16. NO FIELD CHANGES OR DEVIATION FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CITY OF
- THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY OF NAPLES, AS REQUIRED, A MINIMUM OF 48 HOURS IN ADVANCE AND NOTIFY ENGINEER 48 HOURS IN ADVANCE.
- 18. NO CONNECTION TO, OR ANY OTHER CONSTRUCTION SHALL BE PERFORMED ON AN EXISTING UTILITY MAIN OR STRUCTURE WITHOUT THE PRESENCE OF A CITY OF NAPLES UTILITY INSPECTOR.
- 19. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THREE (3) SETS OF RED LINE AS-BUILTS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE AND ALL OTHER PERTINENT BACKFILL AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF CERTIFICATION
- 21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO NOTICE TO PROCEED OF CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- 22. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A REGISTERED FLORIDA PROFESSIONAL LAND SURVEYOR FOR LAYOUT OF ALL WORK AND RESTORING THE MONUMENTS AND PROPERTY CORNERS DISTURBED DURING CONSTRUCTION. PROOF OF REGISTRATION SHALL BE SUBMITTED TO THE ENGINEER.
- 23. ALL SHEETING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO SHALL SUBMIT OWNERS DESIGN CALCULATIONS AND WORKING DRAWINGS OF PROPOSED SHORING, SHEETING AND BRACING WHICH HAS BEEN PERPARED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN
- 24. THIS SET OF PLANS HAS BEEN PREPARED IN GENERAL ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, CONTRACTOR SHALL PROVIDE ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THE FDOT STANDARD PLANS AND STANDARD SPECIFICATIONS, FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION

#### DEMOLITION:

- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF SAME TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FUNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE CITY OF NAPLES.
- THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE AND RETAINING WALLS (INCLUDING FOOTERS)
- THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREES, TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE CITY/COUNTY REGULATIONS.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL SIGNS, MALBOXES, FENCING, DRAINAGE STRUCTURES, ETC. AS
  REQUIRED TO COMPLETE THAS PROJECT, ALL SUCH RESTORATION SHALL BE COMPLETED IMMEDIATELY FOLLOWING PIPE
  INSTALLATION AND BACKFILL AND SHALL BE INCLUDED IN CONTRACTOR'S PRICE FOR PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL REMOVED/DEMOLISHED PIPE, STRUCTURES, EQUIPMENT AND APPURTENANCES AT NO ADDITIONAL COST TO THE CITY OF NAPLES.

#### DRAINAGE NOTES:

- THE STORM DRAINAGE PIPING SHALL BE SUBJECTED TO A VISUAL INSPECTION BY THE CITY AND ENGINEER PRIOR TO PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE INSPECTED BY CITY AND ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 3. DRAINAGE PIPES TO BE ABANDONED SHALL BE PLUGGED WITH BRICK AND MORTAR AT BOTH ENDS AND FILLED WITH
- ALL PIPE JOINTS AND STRUCTURE PENETRATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX AND SPECIFICATION SECTIONS 430 AND 425.

#### UTILITY NOTES:

- 1. ALL UTILITY, PIPE AND STRUCTURAL BEDDING AND BACKFILL SHALL CONFORM TO SPECIFICATION SECTION 02223.
- SUBSURFACE SOIL EXPLORATION ANALYSIS AND RECOMMENDATION FOR PROPOSED POLLUTION CONTROL STRUCTURE PREPARED BY YPC CONSULTING (JULY 7TH, 2016) AND PROVIDED IN APPENDIX A OF TECHNICAL SPECIFICATIONS.

### TEMPORARY EROSION AND SEDIMENT CONTROL:

- 1. CONTRACTOR SHALL INSTALL PRIOR TO AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS
- EROSION CONTROL MEASURES WILL BE INSPECTED BY CONTRACTOR AT LEAST DAILY, AFTER REACH RAIN EVENT AND
  REPAIRED BY THE GENERAL CONTRACTOR IF DAMAGED. CLEAN DUT OF SEDIMENT CONTROL STRUCTURES WILL BE
  PERFORMED BY THE CONTRACTOR WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) HEIGHT OF FABRIC FOR SILT
  FENCE, TURBIDITY BAPRIERS, AND INLET SEDIMENT TRAPS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROVIDING SEDIMENT AND EROSION CONTROL MEASURES TO PROVIDE OPTIMUM SEDIMENT AND EROSION CONTROL. SEDIMENT AND EROSION CONTROL MEASURES SHALL COMPLY WITH CHAPTER 6 OF THE FLORIDA DEVELOPMENT MANUAL
- 4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY CITY OF NAPLES DESIGNATED REPRESENTATIVE OR OTHER REGULATORY AGENCY REPRESENTATIVE AT NO ADDITIONAL COST TO THE CITY OF NAPLES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING DITCHES, WETLAND VEGETATION, STORM DRAIN PIPE, AND INLETS IN THE VICINITY OF WORK TO BE PERFORMED, FROM DAMAGE OR SILTATION, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE
- EROSION CONTROL MEASURES DESCRIBED SHALL BE MAINTAINED UNTIL PERMANENT DRAININGE FACILITIES HAVE BEEN RECONSTRUCTED AND VEGETATION ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.
- CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC STREETS. IF TRACKING OR FLOW OF MUD OCCURS, CONTRACTOR STALL CONSTRUCT A SOIL TRACKING PREVENTION DEVICE IN ACCORDANCE WITH FOOT DESIGN STANDARDS 2010, INDEX NO. 108. ALL ROLDWAYS SHALL BE SWEPT DAILY AT MINIMUM, OR MORE FREQUENTLY IF DEEMED NECESSARY BY CITY OF NAPLES REPRESENTATIVE AT NO ADDITIONAL COST TO THE CITY OF NAPLES.
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION OR PROJECT COMPLETION, AS DIRECTED BY THE CITY'S REPRESENTATIVE.
- SILT FENCE AND TURBIDITY BARRIERS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS 2010, INDEX NO. 102 AND 103.
- 10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN THE WORK SITE AND PREVENTION OF SEDMENTATION OF ANY ADJACENT OR DOWNSTREAM WATERWAYS. THE EROSION AND SEDMENTATION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTORS' METHODS OF OPERATION MAY DICTATE ADDITIONAL EROSION AND SEDMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINION AND INSTALLING ADDITIONAL MEASURES.
- 11. ANY EXPOSED DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 20 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING, WITCH CONTRACTOR SHALL WATER AS NECESSARY TO ESTABLISH GRASS AT NO ADDITIONAL COST TO THE CITY OF NAPLES.



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KELLY BLAKE SMITH, PE 69876

Client/Project CITY OF NAPLES

POLLUTION CONTROL STRUCTURE AT CAMBIER PARK

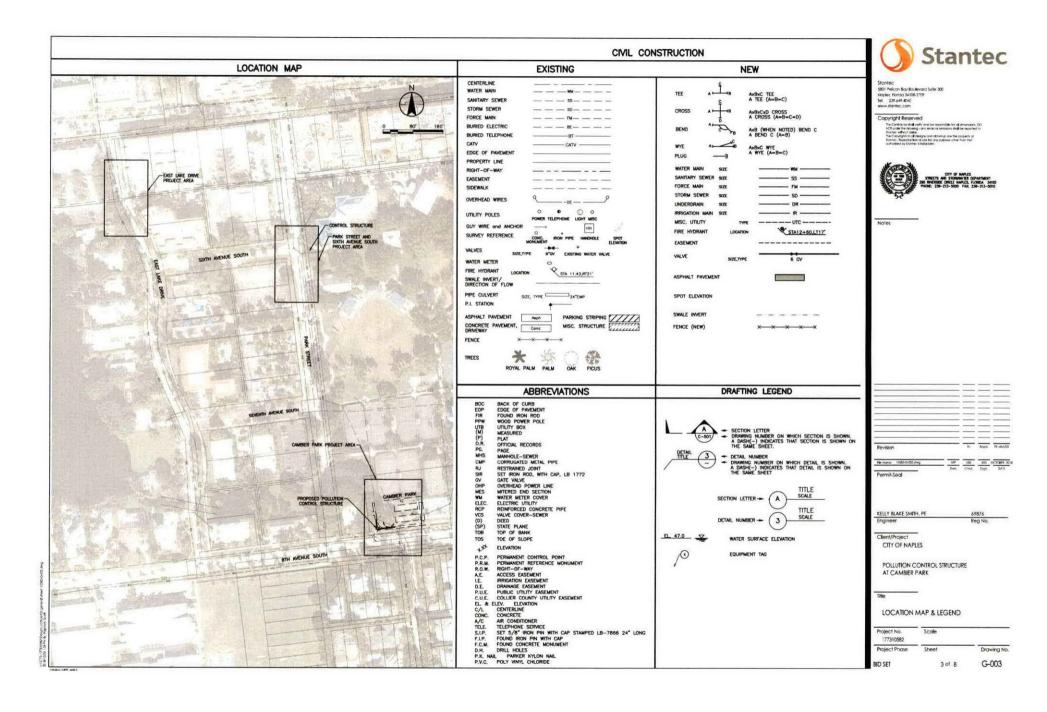
GENERAL NOTES

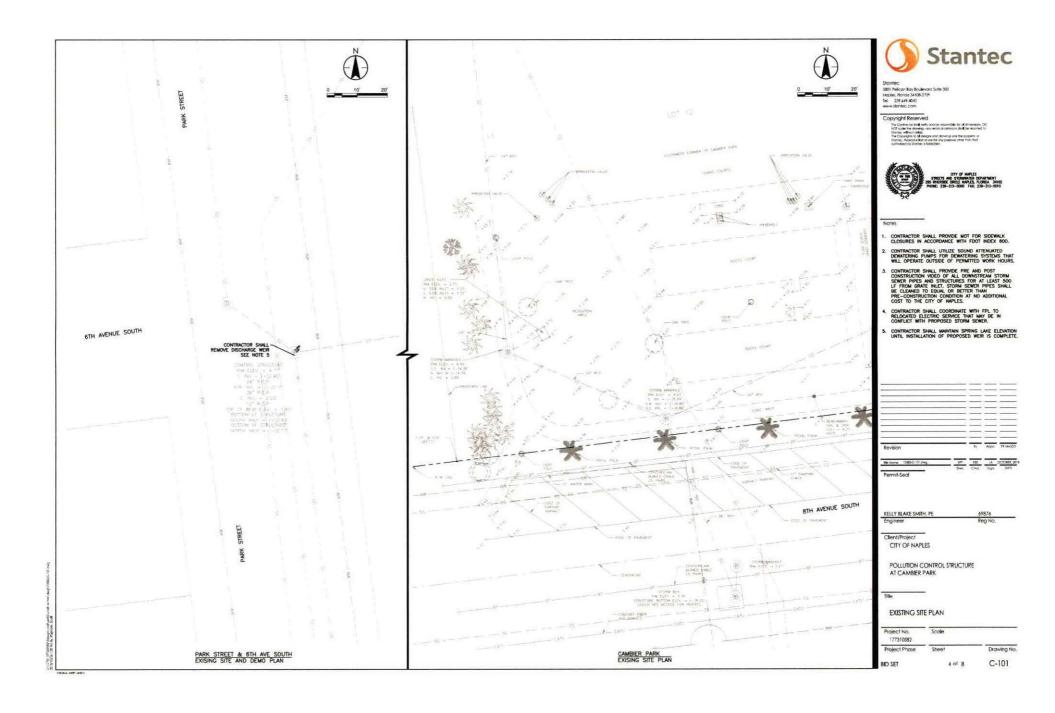
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2 of 8

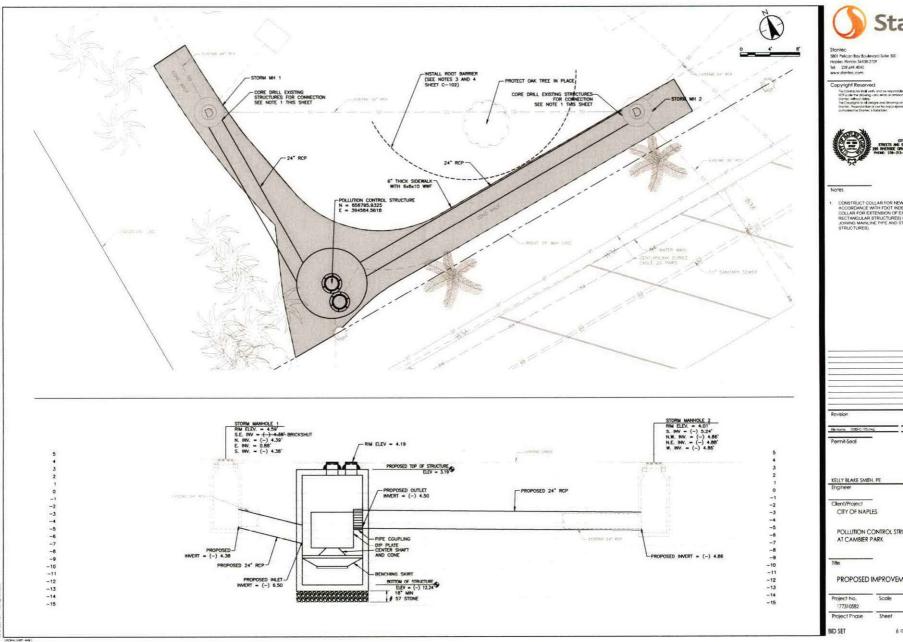
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CONSTRUCT COLLAR FOR NEW PENETRATION IN ACCORDANCE WITH FOOT INDEX 480 001, CONCRETE COLLAR FOR EXTENSION OF EXISTING PIPE CALVERTS FOR RECTANGULAR STRUCTURES) OR CONCRETE COLLAR FOR JOINNO MAINLINE PIPE AND STUB PIPE FOR ROUND STRUCTURES).

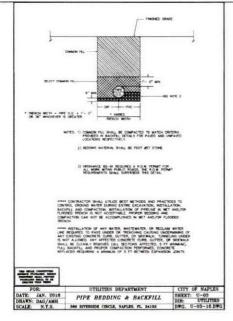
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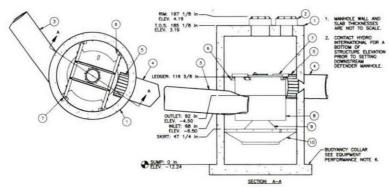
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POLLUTION CONTROL STRUCTURE

PROPOSED IMPROVEMENT PROFILE

Project No. 177310582	Scale	
Project Phase	Sheet	Drawing No
BID SET	8 10 8	C-103





8-FT DIAMETER POLLUTION CONTROL STRUCTURE

	PARTS LIST		
ITEM	DESCRIPTION		SIZE
1	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)	96	in
2	FRAMES AND COVERS		
3	INLET PIPE	24	in.
4	OUTLET PIPE	24	in
5	PIPE COUPLING		
6	LEDGER ANGLE		
7	SUPPORT FRAME		
B	DIP PLATE		
9	CENTER SHAFT AND CONE		
10	BENCHING SKIRT		

### NOTES:

### EQUIPMENT PERFORMANCE:

THE STORMMATER TREATMENT UNIT SHALL ADHERE TO THE HYDRAULIC PARAMETERS GMEN IN THE CHART BELLOW AND PROMDE THE REMOVAL EFFICIENCES AND STORAGE CAPACITIES AS FOLLOWS:

- PERFORMANCE OBJECTIVES THE UNIT SHALL BE OFFICE THE UNIT SHALL BE OFFICE THE UNIT SHALL BE OFFICE THEATHER FLOW ISO OF SECONDARY STORMED SHOWED STORMED WAS TO STORE OFFICE THEATHER FLOW ISO OFFICE THEATHER FLOW ISO OFFI THEATHER FLOW IN A STORE OFFI THEATHER FLOW IN A STORE OFFI THEATHER FLOW IN THE UNIT SHOW PATH AND PROTECTED FROM RESTRICTION THE WAS ISOLATED FROM THE WAS INCOME.

### DEFENDER PIPE CONNECTIONS:

- PIPE OPENINGS WILL BE SIZED FOR RCP UNLESS HOTED OTHERMISE ON THE RETURNED SUBMITTAL.
   LARGE DIAMETER COUPLING REQUIRED TO CONNECT OUTLET PIPE TO OVERFLOW STUB.
  - OVERFLOW PIPE STUB DIMENSIONS: 0.0. = 24.80 IN LD. = 24.00 IN STUB LENGTH = 6.00 IN
- 3. NALT PIPE ENTIRE UNIT TANCENT TO ASIDE OF CETTAGER MANGUE CUT PIPE OFF AT 30 NETWORK (SEE SEVELATION ASTRUCTURE) (SEE SEVELATION ASTRUCTURE ORDOR TO LIBELIE A MATERICH CONNECTION GROUT OF LIBELIES AND PIPES PER PROLECT SPECIFICATIONS.



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KELLY BLAKE SMITH, PE 69876

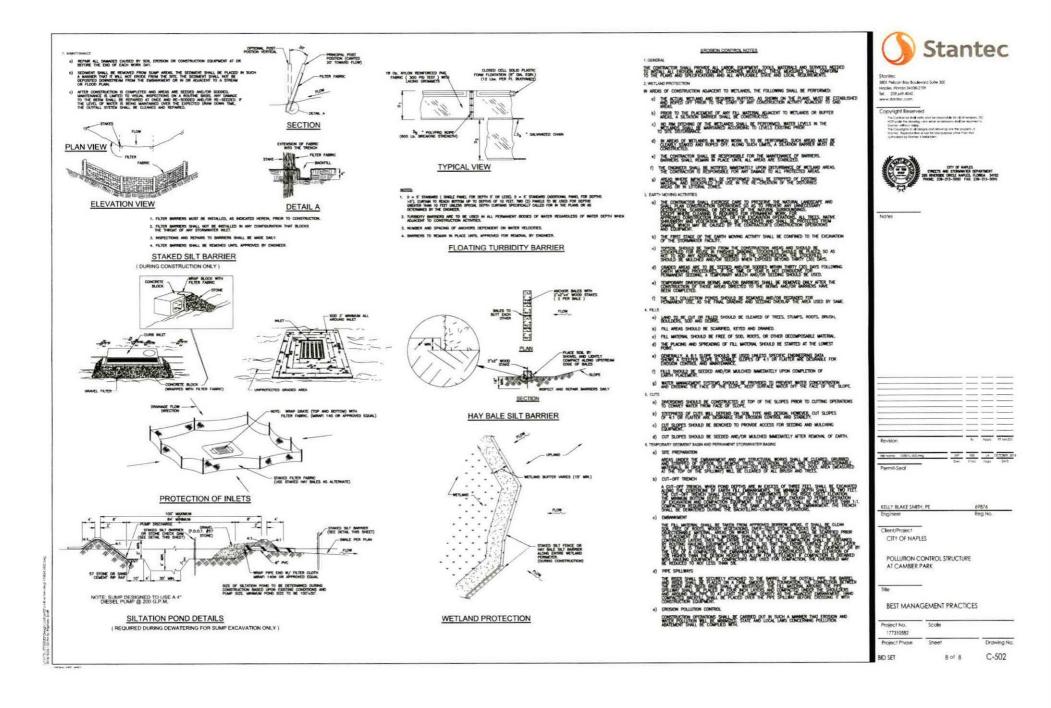
Client/Project CITY OF NAPLES

POLLUTION CONTROL STRUCTURE AT CAMBIER PARK

DETAILS

Project No. 177310582 Drawing No. C-501

BID SET 7 of 8



# CITY OF NAPLES, FLORIDA **NAPLES BAY RESTORATION & WATER QUALITY IMPROVEMENTS AT THE COVE**

# CONSTRUCTION PLANS FOR WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

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.7	G-0072	GENERAL NOTES/SITE PLAN		
		Envetormental		
3	£P-101	EXISTING CONDITIONS SITE PLAN W/AERIAL		
4	PP-102	CHANNEL & LIVENG SHORELINE SITE PLAN		
:5	EP-103	DREDGING & STAGING SITE PLAN AND MANGROVE MITIGATION PLAN		
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		Structural		
26	5-001	STRUCTURAL MOTES AND DETAILS		





**GOVERNING REGULATIONS & SPECIFICATIONS** 

THE PROJECT DEVELOPMENT CODE; CITY OF NAPIES FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT): FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP); SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SEWMD): UNITED STATES ARMY CORPS OF ENGINEERS (USACE); IN THE EVENT OF A CONFLICT. THE MOST RESTRICTIVE APPLIES

MAYOR BILL BARNETT

CITY COUNCIL REG BUXTON LINDA PENNIMAN MICHELLE MCLEOD TERRY HUTCHINSON

STREETS AND STORMWATER DIRECTOR GREGG STRAKAULUSE, P.E.

PLANS PREPARED FOR



City of Naples Streets and Stormwater Department 295 Riverside Circle, Naples, FL 34102 Tel. (239) 213-5016 Fax. (239) 213-5010 www.naplesgov.com PLANS PREPARED BY



Stantec Consulting Services Inc. 5801 Pelican Bay Boulevard, Suite 300 Naples, FL U.S.A. 34108 Tel: 239 649 4040 Florida Certification No. 27013



**BID SET** 

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

STANTEC PROJECT NO. 177310582 OCTOBER 2018

P.E. NO. 49374

PLANS AND SPECIFICATIONS SAIL DEFINITE ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE CITY OF MAPLES.

THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN THE CITY OF MAPLES STREETS AND STORMWATER OPPARTMENT, UNILLIES DEPARTMENT, PARKS DEPARTMENT, ENDIEGRE OF RECORD, CONTRACTOR, AND OTHER INTERESTED PARTIES PRIOR TO COMMENCEMENT OF

CONSTRUCTION.
SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS 01300 SUBMITTALS AND 01600 EQUIPMENT AND

ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS O1600 EQUIPMENT AND MATERIAL.

CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES (SUNSHINE STATE ONE CALL 1-800-432-4770) FOR UTILITY LOCATES AT LEAST 48 HOURS (2 BUSINESS DAYS)

PRIOR TO CONSTRUCTION OPERATIONS.
THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGH THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK

ALL ELEVATIONS ARE DECIMAL FEET, BASED UPON NORTH AMERICAN VERTICAL DATUM 1998 (NAVDBB)
IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL

REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION NO CONSTRUCTION OF ARMICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER REQUIRED PROCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REQUIRED AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL SUBMIT ROW PERMIT APPLICATION THROUGH CITY OF NAPLES STREETS AND STORMWATER DIVISION SHOWING MAINTENANCE OF TRAFFIC

AND ANY ROAD OR LANE CLOSURES.
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, SIDEWALKS, SIGNS, STORM CULVERTS, FENCES AND LANDSCAPING AS REQUIRED BY THE CITY, ENGINEER OF RECORD AND/OR GOVERNING ENTITIES ALL DISTURBED AREAS SHALL BE RESTORED, INCLUDING REGRADING, TO THEIR

ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR REGRADING AND REPLANTING VEGETATION IN ALL AREAS DISTURBED BY THE CONSTRUCTION.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL CLEARED.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPUSAL OF ALL CLEARING VICETATION WITHIN FIVE (5) DAYS OF CLEARING AND GRUBBING WORK. SITE SHALL BE CLEANED PRIOR TO WEEKENDS:
CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL.

MEASURES THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS. ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE BIDDING OR COMMENCING

NO FIELD CHANGES OR DEVIATION FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CITY OF NAPLES.

THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY OF NAPLES, AS REQUIRED, A MINIMUM OF 48 HOURS IN ADVANCE AND NOTIFY ENGINEER 48 HOURS IN ADVANCE. NO CONNECTION TO, OR ANY OTHER CONSTRUCTION SHALL BE PERFORMED ON AN

EXISTING UTILITY MAIN OR STRUCTURE WITHOUT THE PRESENCE OF A CITY OF

NAPLES UTILITY INSPECTOR.
THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THREE (3) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE OWNER AND THE ENGINEER

WITH COPIES OF CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS

THE CONTRACTOR SHALL DBTAIN THE SERVICES OF A REGISTERED FLORIDA PROFESSIONAL LAND SURVEYOR FOR LAYOUT OF ALL WORK AND RESTORING THE MONUMENTS AND PROPERTY CORNERS DISTURBED DURING CONSTRUCTION. PROOF OF REGISTRATION SHALL BE SUBMITTED TO THE ENGINEER. ALL SHEETING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WHO SHALL SUBMIT COMPLETE DESIGN CALCULATIONS AND WORKING DRAWINGS OF PROPOSED SHORING SHEETING AND BRACING WHICH HAS BEEN PREPARED SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.



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R, QUINCE SELLERS, P.E.

Client/Project CITY OF NAPLES

> WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

GENERAL NOTES/SITE PLAN

Project No. Scale 177310582 1" = 20 Sheet Drawing No.

2 of 26

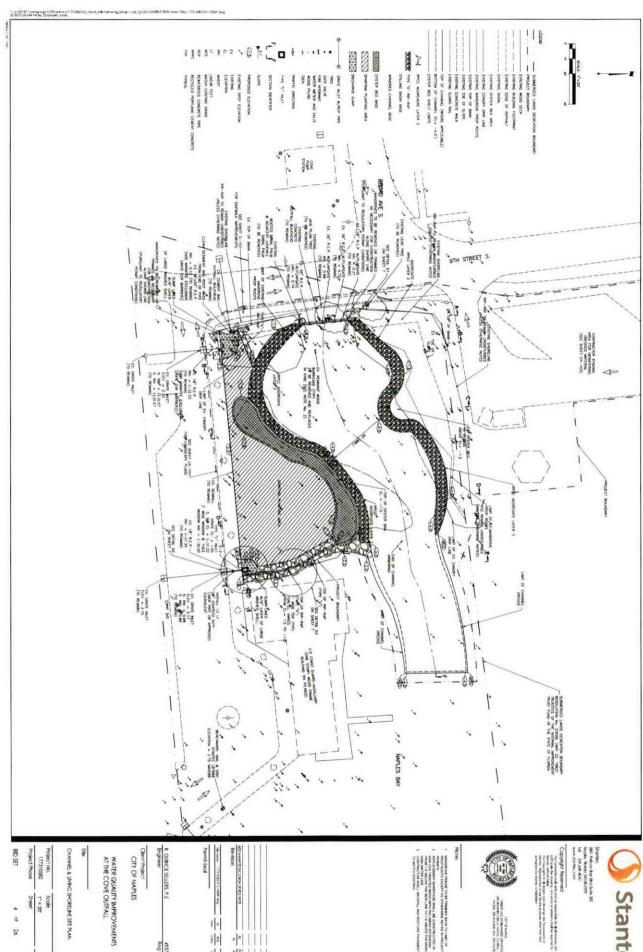
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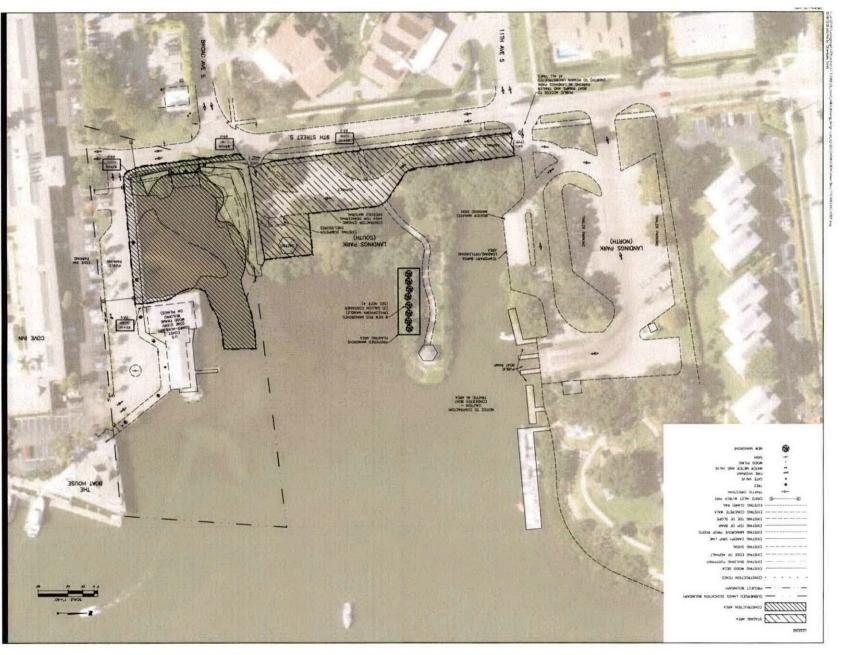
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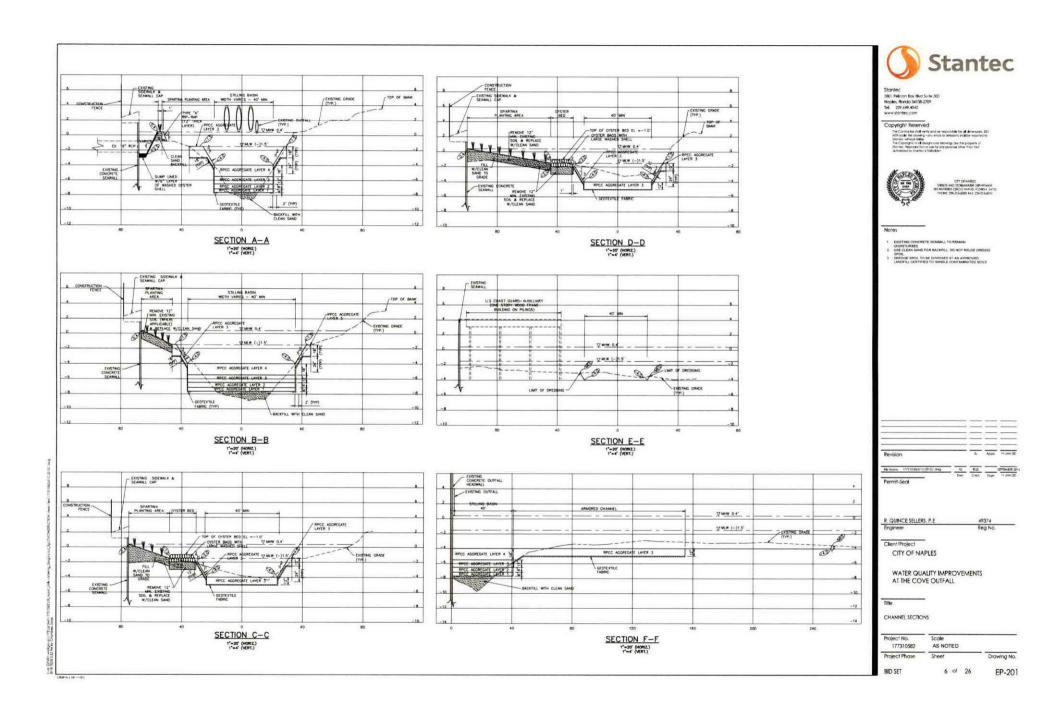
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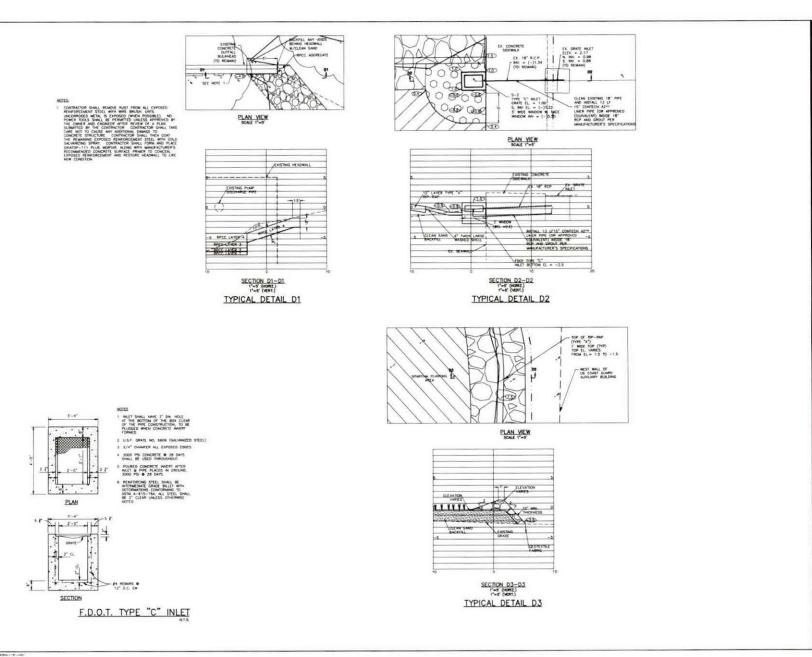
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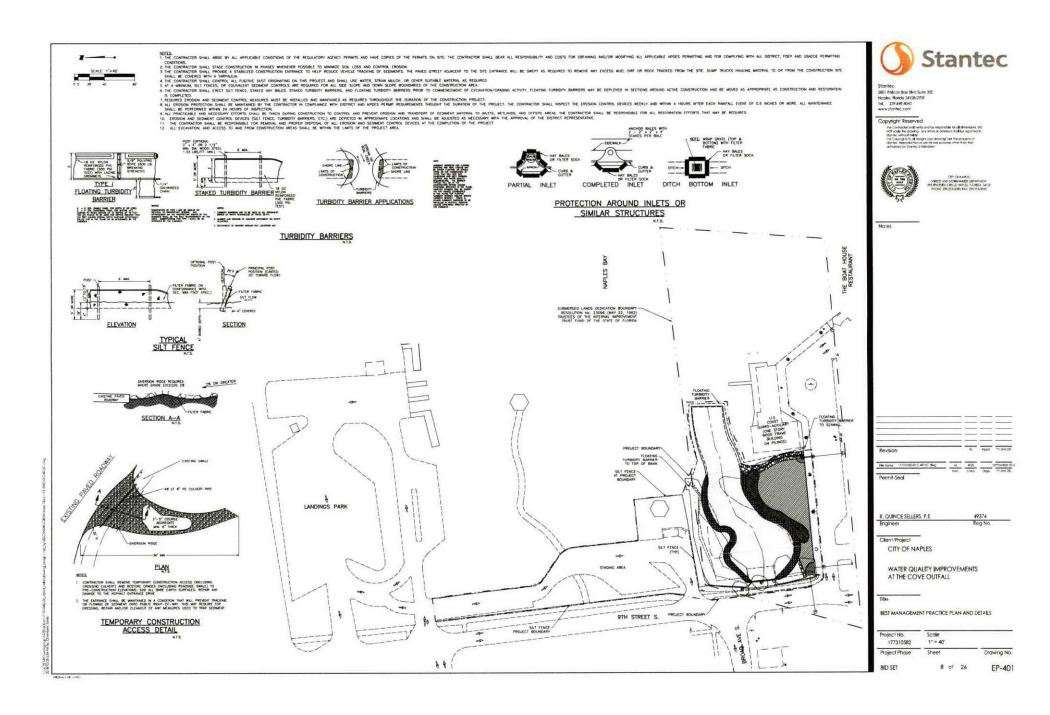
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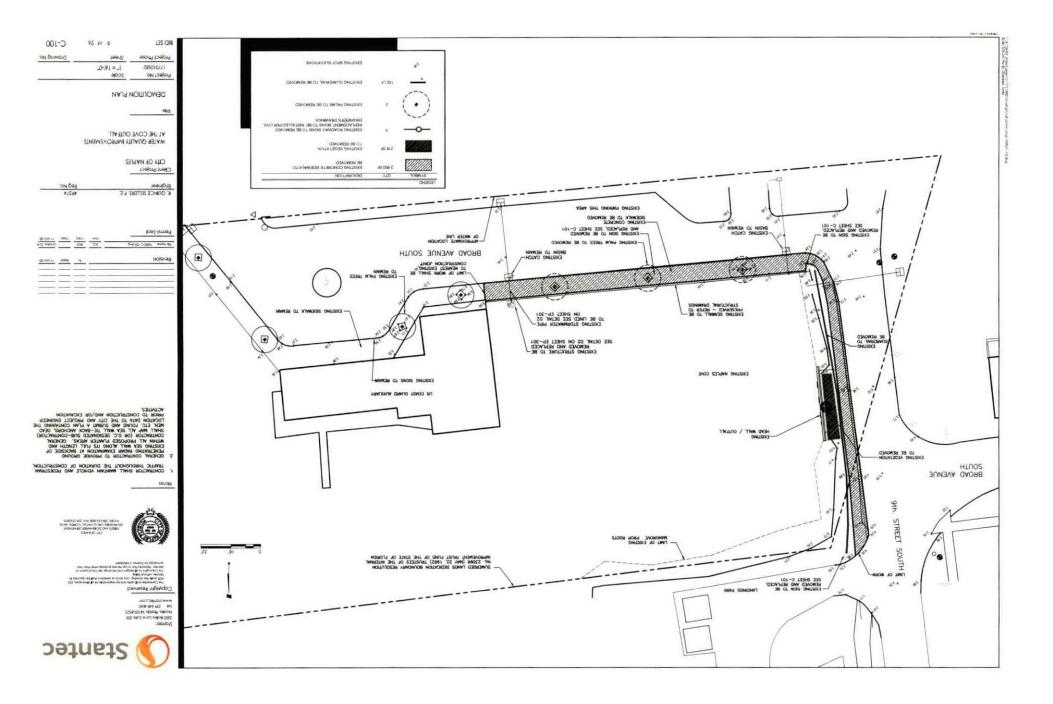
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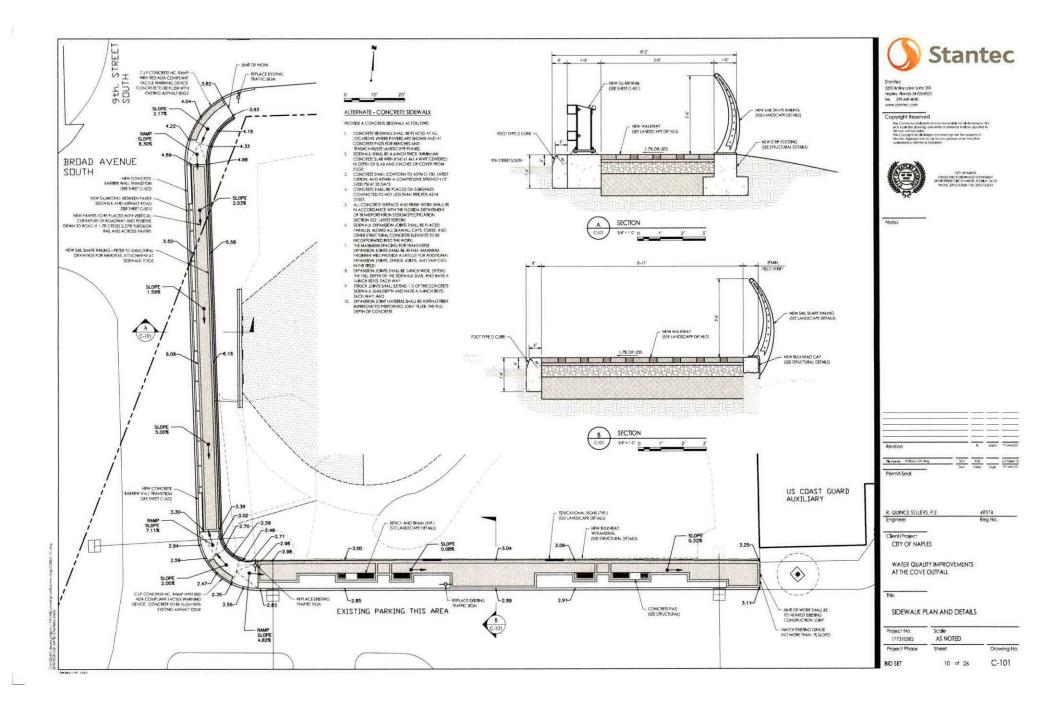
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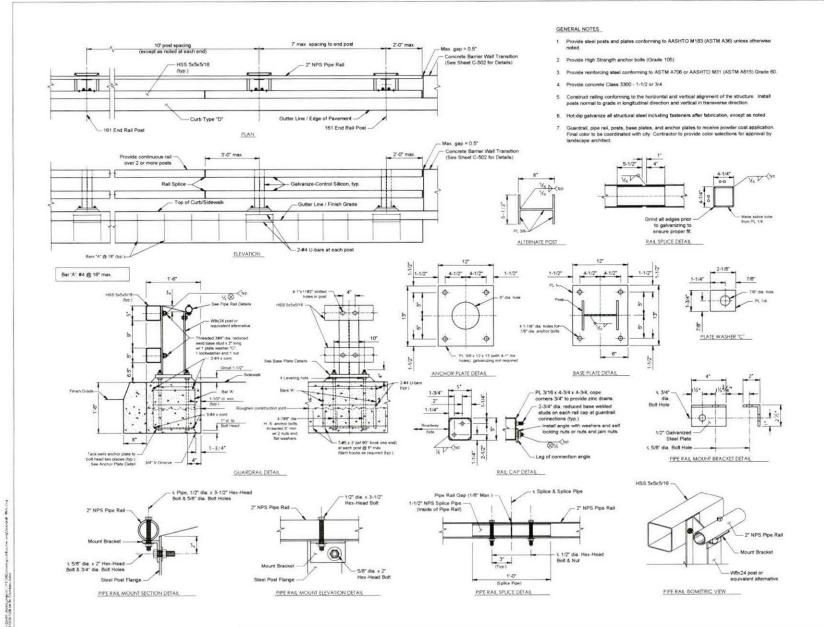
TYPICAL SECTIONS AND DETAILS

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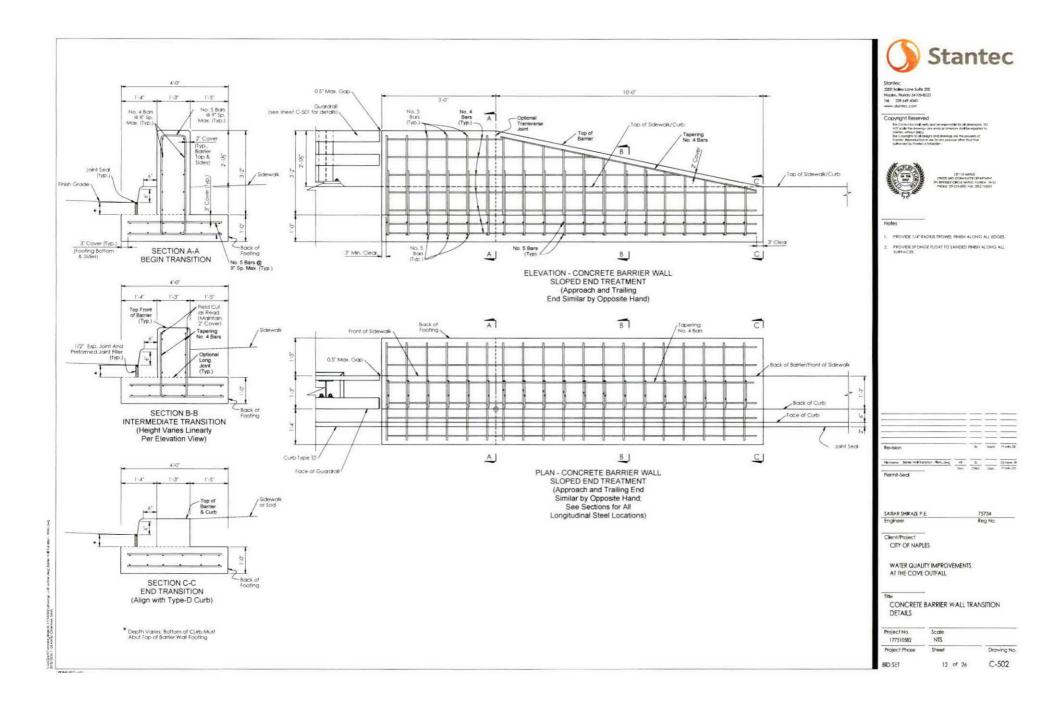
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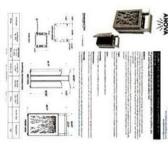
Client/Project CITY OF NAPLES

WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

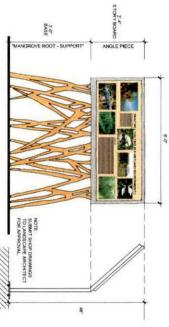
GUARDRAIL DETAILS

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# GENERAL CONSTRUCTION NOTES

- THE COMPANTION AND THE RESPONDANTIONS SHALL NOT BE RESPONDED.

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- CONTRACTOR SHALL PRODUCE TRAFFIC CONTROL DATE(O) CONDITION TRAFFIC CONCENTRACTOR AND CONTRACTOR WATER TRAFFIC CONTRACTOR WATER FEEDBALL PRODUCE OF TRAFFIC CONTRACTOR WATER FEEDBALL PRODUCE OF TRAFFIC CONTRACTOR CONTRACTOR WATER FEEDBALL PRODUCE OF TRAFFIC CONTRACTOR OF TRAFFIC CONTRACTOR WATER FEEDBALL PRODUCE OF TRAFFIC CONTRACTOR CONTRACTOR FEEDBALL PRODUCE FEEDBALL FEEDBALL PRODUCE FEEDBALL FEEDBALL PRODUCE FEEDBALL FEEDBALL

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- REPORT ANY DISCREPANCIES SETWEEN THE CONSTRUCTION CONSTRUCTION FAICHTECT IMMEDIATELY
- ALL EXISTING SITE FURNASHINGS, PAVING), LANDSCAPE AND OTHER ELEMENTS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE LINLESS OTHERWISE NOTED

- THERE PLANS ARE FOR LANDSCAPIND PURPOSES DIALY. FOR ROADWAY DRAINAGE, BIONAGE LOHTING DRITRAFFIC INFORMATION, PLEASE REFER TO THE APPRICIPMANT PLAN SHEETS.

- ALL PROPRIED GROUND ELEVATIONS IN LINDSCAPE AREAS ARE PROPRIED SOD ELEVATIONS TRESH EARTHADEN CANONIC SMOULL SHE THESE (IT SOCIES SELON ELEVATIONS SHOWN TO ALLOW THE BOOKS SELON ELEVATIONS SHOWN TO

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- ARY MANTHANCE OF TRAFFIC MEED BY THE LANDSCAPE CONTRACTOR SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND CHARGES CONTRACTOR AND CHARGES ACTIVITIES
- THE PROPOSED CONSTRUCTION SHALL COMENY WITH THE AMERICANS WITH DISABILITIES ACT (ADA). THE ACA COMPLANCE HANDSOOK, LATEST ESTION, AND THE FLORIDA ACCESSIBLITIS CODE.
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- WHERE EXAMATIONS ARE IN CLOSE PROMINTY OF TREES, THE CONTRACTOR SHALL EXTREME CARE IN ANY DAMAGNAY THE PROPERTY STEED, AND EQUIPMENT, SIMPLES, OR PROBLEM SHALL BE STORIED ON PARKELLY FOR THE CONTRACTOR TO REPORT ALL OF HIS DAMACHER. TO SHALL BE THE RESPONSEMENT OF THE CONTRACTOR TO REPORT ALL OF HIS DAMACHER. SUBCONTRACTOR OF THIS REPORTED HAS THE CONTRACTOR OF THE SERVICE SHALL SUBCONTRACTOR OF THIS REPORTED HAS THE CONTRACTOR OF THE SERVICE.
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- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL WATER GUALITY STANDARDS
- CAUTION BROAD RE DESPOSED WHAT WESTING HEAR EXCITING GROUND PARTIES OF ALL WESTING GROUND PARTIES SHALL HE OVERHEAD SHOULD FOR PREPART MARKETESSARY, DAMAGE SHOULD HAND STRUCTHESS SHALL HE REPACED BY THE COMPACTION AT THE COMPACTION SEPTIMES IF ANY ARE DAMAGE BETOND USE AND STRUCTHERWHEID BY THE COMPACTION OF A THE COMPACTION OF THE CO
- ANY PURIC (LAND COMERS WITHIN 118; IMMTS OF COMPRENCTION IS TO BE PROTECTED A CORREST MONAMENT IS BY INVARIES OF BEING DESTROYED. AND HAS NOT BEEN PROPERS A RETERBENCED THE CONTRACTOR SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY.

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- THE CONTRACTOR SHALL VERBY ALL PLANT COUNTS AND REPORT ANY DISCREPANCIES THE LANDSCUPE ARCHITECT PRIOR TO CONSTRUCTION.
- AUSSIGNE COMMENTOR BAIL HELD AUGET LOCATOR OF PARTILLIFICATION OF PARTICLA.
  AUGENICATION OF PARTILLIFICATION OF SECONDARY OF PARTICLA MITERION OF PARTICLA MITERION OF SECONDARY OF S
- COMPACTOR SHALL BE RESPONSIBLE TO REPLACE ALL PORTICUS OF EDISTROLLAWA AREAS COMMORD WHILE COMPLETING PLANTING HISTALLATING WITH SAME GOASS SPECIES TO THE SATISFACTORY OF THE LANDISCAPE AND RETOCT FORWER

OWNER SHALL BE RESPONSIBLE FOR PROVIDING GRAPHICAL MAGERY FOR EDUCATIONAL SIGNS.

- THE COMPONING TO RECORD SHALL FINISHE THAT INSTALLATION IN MEDIANS AND SIGHTS OF WAY'S COMPONING TO CRITERIA BET FORTH IN FILTO 7 MAINTENANCE RATING PROGRAM LATES REVISION.
- THE FOLLOWING GLIDELINES SHALL BE LITTLICED TO ENSURE SUCCESSFUL TRANSPLANTING OF THEES

- TRANSPLANTED TREES SHALL NOT BE FERTILIED AT PLANTING THE BUT SHALL WATERED SUFFICIENTLY UNTIL THE TREE DROWTH IS RE-ESTABLISHED.
- ALL GROWN PRIMADS SHALL HE DONE BY ACCORDANCE WITH HYDRAL ARRHERST ASSOCIATION STRANGES OF HUAL PRIMADS OF ACCORDANCE WITH CHYDRAL ARRHERS STRANGARDS AND/OR THE STANDARDS (19TED BY "ARBURDULTURE SECOND EDTION" BY RECHARD WHARES, OF AMERICED
- OD NOT STORE ON USE MATERIALS OF EQUIPMENT WITHIN THE CREP USE OF MAY THEE TO BE RELOCATED OR TO REMAIN IN PLACE ON SITE UNLESS THE ACTIVITY IS BEIND DONE TO PROTECT THE TRIBES
- ON MOT DESCRIPTION OF CONTINUANTE. THE SIZE, WITHIN THE DOD LIKE OF ANY TIRES OF IN BRICHARTED ON DISSIANCE OF SIZE THAT CONTINUE CONTINUE AND ASSESSED. AND ASSESSED OF THE CONTINUE AND ASSESSED ON THE CONTINUE AND ASSESSED ON THE CONTINUE AND ESPONSIBLE THE CONTINUE AND ESPONSIBLE THE CONTINUE AND ESPONSIBLE THAT CONTINUE AND ESPON
- MAKE NO ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE NATURE TO ANY TREE TO BE RETAINED ON THE SITE. CLEARING OF VEGETATION WITHIN THE DRIP LINE OF TREES, TEXTURATED FOR PROSECULATION SHALL BE PRESCRIBED CALFFLOWER WITH HAND TOOKS ONLY AS TO MARKET THE ADDRESS MARKETS THAT MAY CAUSE DAMAGE TO TREE ROOTS WHILE OFFICIATION HONOR OF THE PROSECULATION OF THE PROSE
- HALDAK, GRACE ABOVE THE ROOT BYSTEM WITHIN THE DRIP LINE OF ANY PRESSORED TREES DISTURBED DURNO CONSTRUCTION WHALL BE RETURNED TO ITS ORIGINAL GRACE AFTER CONSTRUCTION
- REPISCUPE PRINCENES AS OUTURED IN THE SOUTH FLORICH WATER WANAGEWENT DISTRICT REPISCUPE PLANT QUITE ? SHALL SE ARPLED THEOLOGYTE (ANOSCUPE INSTALLATION AND WANTEDWAVE.

- THE CONTROL OF THE UTURES SHOWN IN THE SWATE ARRESTMENT ONLY THE EVACT CONTROL SHALL BE CRESSMENT OF THE CONTROL CARSO CONTROL CONTROL ON PARTINGS WAY BE SUBJECT TO ANAITMENT IN THE LANGSCAPE MOCHET, TO AND COMPLICE WITH UTUTES AND MACH UTUTES WAY BE AGAINED AT THE DIRECTION OF THE LANGSCAPE AND STEET.

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- LANDSCAPE CONTRACTOR SWALL REGRADE ALL ARRAS DISTURBED BY PLANT REMORELOCIATION ADDRESSMALLATION WORST, LANDSCAPE COMPRICTOR SWALL REPLACE
  EQUAL SITE AND CUALITY NAY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMA
  BY PLANT REMOVAL, RELOCATION, ANDIOR HISTALLATION WORK.
- ALL LANDSCAPE MATERIALS SHALL BE MANTANED TO PROVIDE CONTINUOUS CLIDA COMES PERS SOAT VISBUTY FOR PERSONNAL AND VEHICULAR TRAFFIC AND LANDSCAPE MANTENANCE SHALL COMPOSAN TO STANDANDES SET FORTH HE FO OT ROCKWAY AND TRAFFIC DESIGN STANDANDS, LATEST EDITION, 48DHES 500 RIGICES.
- THE CONTRACTOR OF RECORD BHALL ENGINE THAT HISTALLATION IN MEDIANS AND BIGHTS OF WAYS. CONTROLA TO: CONTROLA SET FORTH IN E.D.O.T. ROADWAY. AND TRAFFIC DESIGN STANDARDS. LATEST EDITION.
- LANGELPE CONTRACTICE BINAL COORDINATE ALL PLANTES MODE MITH RESOLVICIA WORK ASSECT, REGALTION, SOFTEM AND ENGINET THAN ASSELLANTE MATERS & NAMALIES, REPORT RESONAND. PLANTES, CHESTATIONS, REGILIATON RESITEMA MAL, NOT PROVIDE SUFFICIEN CLANTITIES OF WAITES FOR HEAVY TO HAVITO MATERIALS. THE LANGELPEE CONTRACTION RESPONSIBLE FOR DEEP ROOT HAND MATERIALS.
- DUSING AND FOLLOWING TRANSPLANTING, THE ROOT BALL SHALL BE KEPT MOIST AT ALL TIMES. ANY TREE BEING RELOCATED BHALL NOT BE LIMBECESSARILY DAMAGED DURING REMOTRANSPORT OR REPLANTING OF THAT TREE
- TRANSPLANTED TREES SHALL BE BRACED FOR AT LEAST ONE (1) YEAR
- ALL EXERTAD TREES TO REMAN SHALL BE RECIPIED IN RETALLAGE PROTECTIVE MARKETS AND ACCURATION THE DOES HER OF THEIR SHALL BE RECIPIED IN RECIPIED AS ACCURATION THE DOES HAVE DOES THE ACCURATION THE DOES HAVE THE RECIPIED ACCURATION THE DOES HAVE THE RECIPIED ACCURATION THE ACCURATION THE ACCURATION THE ACCURATION THE ACCURATION THE RECIPIED ACCURATION THE ACCURATION ACCURAT

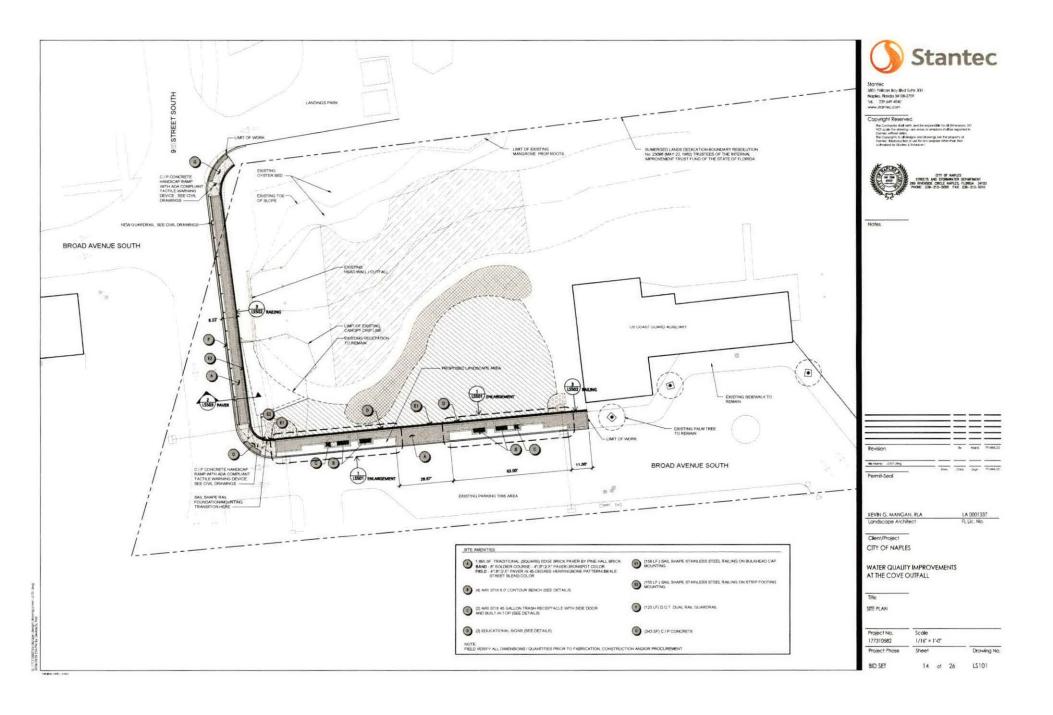
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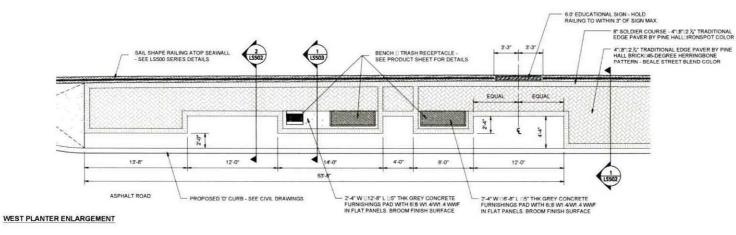
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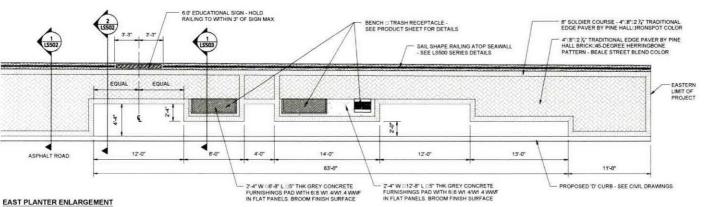
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Client/Project CITY OF NAPLES

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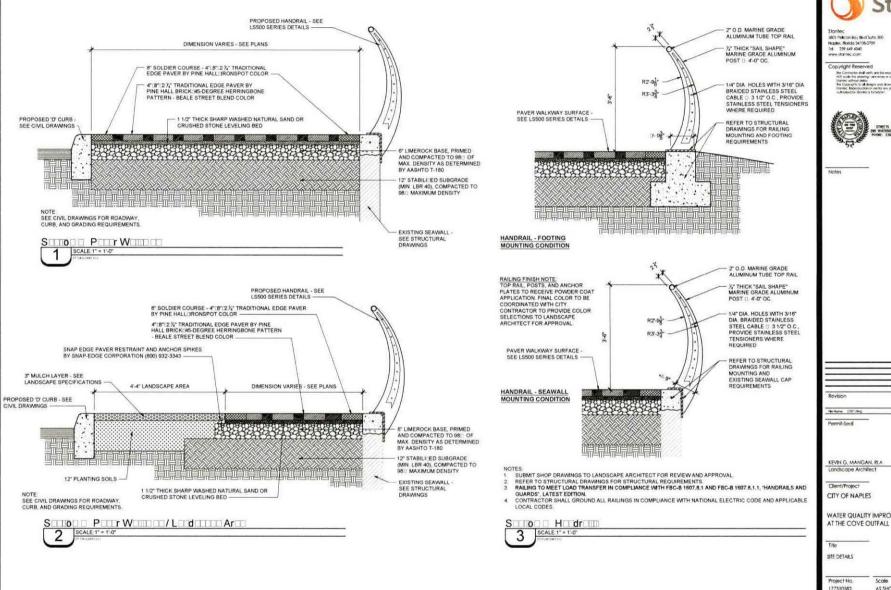
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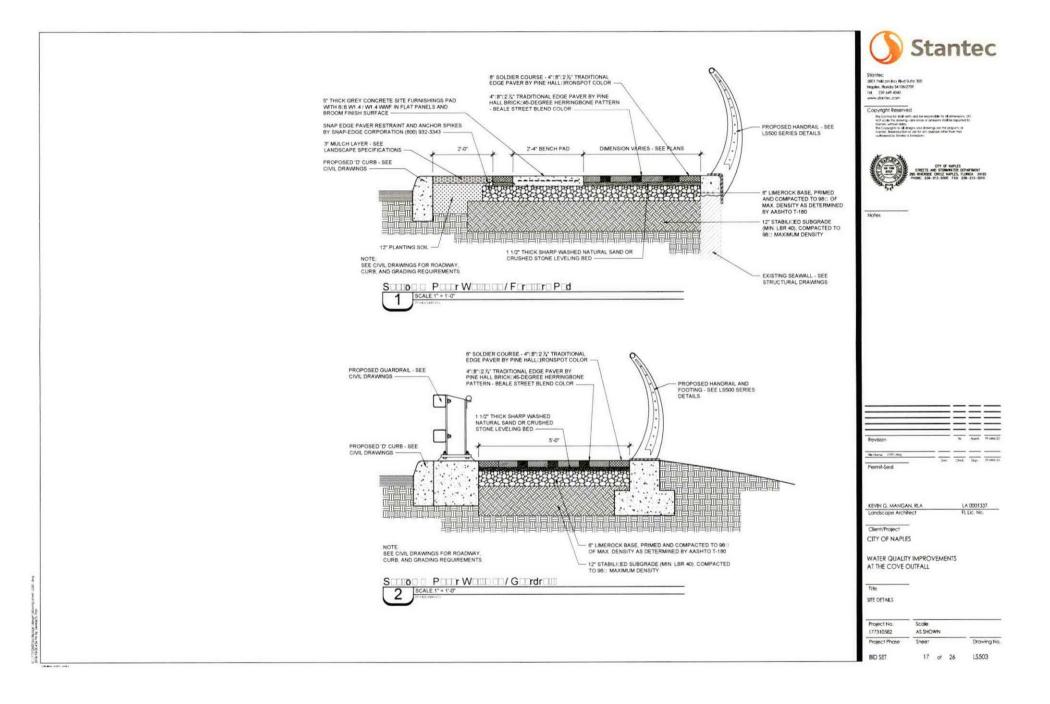
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### LANDSCAPE INSTALLATION/MAINTENANCE GENERAL NOTES

- III ALL MATERIALS SHALL MEET THE CODES AND STANDARDS OF THE CITY OF NAPLES, FLORIDA
- 1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASES, ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE TO FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS", ET ALL, PUBLISHED BY FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, PLANT MATERIALS IN SOME INSTANCES EXCEED NO. 1 GRADE IN ORDER TO MEET THE MINIMAM REQUIREMENTS OF THIS PROJECT AND INDIVIDUAL PLANT SPECIFICATIONS AS NOTED ON THE PLANT LISTUPLORIDA FANCY GRADES ARE REQUIRED FOR CERTAIN PALM TREES ON THIS PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTS MEETING SPECIFICATION AS NOTED PRIOR TO INSTALLATION. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL PLANT MATERIAL THAT AT ANY TIME DOES NOT CONFORM TO SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- ALL ROOTBALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH. IN "AMERICAN STANDARDS FOR NURSERY STOCK". WHERE FLORIDA GRADES AND STANDARDS ARE SILENT ON ORNAMENTAL PLANT MATERIAL GRADES, THEN AMERICAN STANDARDS FOR NURSERY STOCK SHALL ARREV
- 4. CONTRACTOR TO SUBMIT TO THE LANDSCAPE ARCHITECT THE GROWER'S AND/OR STATE INSPECTION CERTIFICATE FOR PLANT MATERIAL TWO (2) WEEKS BEFORE COMMENCEMENT OF THE PROCUREMENT PHASE.
- PLANT MATERIAL DESIGNATED IN THE DRAWINGS TO REMAIN SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION. CONTRACTOR SHALL FIELD VERIFY ALL SPECIES, QUANTITY, AND INSTALL LOCATION INFORMATION AND CONFIRM WITH THE LANDSCAPE ARCHITECT PRIOR TO INITIATING MINITIATION.
- S. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS. CONTRACTOR SHALL INSTALL A 60° HEIGHT CHAIN LINK FENCE ANDIOR A 40° HEIGHT ORANGE NYLON POLYPROPYLENE TYPE FENCE AFFIXED WITH NAILS OR STAPLES TO STURRY POSTS (METAL FENCE STAKES OR 2:8 WOOD, SET TO A DEPTH OF 22° MINIMM, SURROUNDING ALL EXISTING VEGETATION ANDIOR VEGETATION AND FENCE REQUIREMENTS.) FENCE TO BE INSTALLED IN THE CRITICAL, PROTECTION LONG (RIPE LINE). THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE (1) FOOT FOR EACH INCH OF TREE TRUNK DIAMETER MEASURED AT 54° ABOVE FINISHED GRADE (FOR GROUPS OF TREES, LOCATE FENCE BETWEEN TREES AND CONSTRUCTION ACTIVITY AT THE DRIFT UNE). THE FENCE SHALL BE LOCATED TO PROTECT A MINIMUM OF 900 OF THE GRITICAL PROTECTION. LONE. SHRUES AND GROUNDCOVER VEGETATION SHALL HAVE A MINIMUM 50° BUFFER BETWEEN FENCE AND CONSTRUCTION DEBRIS OF ANY KIND, TOOLMATERIAL STORAGE, VEHICLES, CHEMICALS, DIRECTLY AND INDIRECTLY APPLIED, ON OFFICIAL STORAGE, VEHICLES, CHEMICALS, DIRECTLY FOR INDIRECTLY APPLIED, ON OTHER CONSTRUCTION ACRITICAL PROTECTION. LONE. PROTECT THE CRITICAL PROTECTION.
- 7. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO PROCUREMENT AND/OR DELIVERY TO THE WORK SITE. ALL PLANTS WILL BE SUBJECT TO PROJECT SPECIFICATIONS, THESE NOTES, AND APPROVAL BY LANDSCAPE ARCHITECT BEFORE PLANTING CAN BEGIN
- 8 LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW
  AND APPROVAL OF THE LANDSCAPE ARCHITECT TWO (2) DAYS PRIOR TO PLANTING.
- 9. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED, AND MEET ALL REQUIREMENTS SPECIFIED PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. SHOULD THE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, NECESSARY REPAIRS SHALL BE MADE AS QUICKLY AS PRACTICABLE, AT CONTRACTOR'S EXPENSE, UNDER SUPERVISION OF THE GENERAL CONTRACTOR AND/OR OWNER.
- 10. INSTALLATION ALL PLANT MATERIAL SHALL BE INSTALLED IN A SOUND, WORKMANLIKE MANNER AND ACCORDING TO ACCEPTED GOOD PLANTING PROCEDURES AND ORNAMENTAL HORTICULTURAL PRACTICES/CODES WITH THE QUALITY OF PLANT MATERIALS AS HEREIMAFTER DESCRIBED. ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODE REQUIREMENTS OF THE STATE OF FLORIDA AND THE JURISDICTION THE INSTALLATION OCCURS WITHIN INCLUDING ALL BUILDING CODES AND THEIR APPENDICES.
- 11. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN ON THE DRAWINGS AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING) AS SHOWN IN THE PLANTING DETAILS. PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE USTED IN THE PLANT LISTISCHEDULE.
- 12. CONTRACTOR SHALL ASSURE FREE DRAINAGE AND PERCOLATION OF ALL PLANTING PTS PRIOR TO INSTALLATION OF PLANT MATERIAL CONTRACTOR SHALL FILL ALL TIREE PTS WITH WATER BEFORE PLANTING TO ASSURE THAT PROPER DRAINAGE AND PERCOLATION IS AVAILABLE CORRECT IF REQUIRED TO ASSURE PERCOLATION CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS LOST DUE TO INADPOLICE DRAINAGE OF CONTITUENT SHAT MAY BE DETERMENTED PLOST INSTALLATION BY THE LANDINGE PROPERTED CYCLORY.
- 13. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING
- 14. BALLED AND BURLAPPED MATERIAL SHALL HAVE THE TOP ONE HALF (1/2) OF THE BURLAP AROUND THE BASE OF THE TRUNK CUT AND PULLED BACK DO NOT REMOVE BURLAP. WIRE CAGES, STRAPS, ETC. MUST BE CUT AND REMOVED PRIOR TO INSTALLATION.
- 15. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN FIVE (5) BUSINESS DAYS OF NOTICE OF REJECTION.
- 18. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANTS LIST, GENERAL NOTES, PLANS AND THE PLANTING SPECIFICATIONS
  25. ALL PLANT MATERIAL SHALL BE OF FLORIDA NO. 1 OR BETTER QUALITY AT TIME OF INSTALLATION AND SHALL BE MAINTAINED IN THIS SAME
  EXPLOYED REPORT AND ADMINISTRATIVE ADM
- 17. FERTILIDATION

PALMS: 13-3-13 PLUS MINOR ELEMENTS - SLOW RELEASE 1/2 LB FERTILITER PER 1/2 INCH CALIPER

SHRUBS AND GROUNDCOVERS: 8-10-10 PLUS MINOR ELEMENTS - SLOW RELEASE 1/2 LB FERTILLIER PER 100 FT2

TREES

8-6-9 PLUS MINOR ELEMENTS - SLOW RELEASE
1/2 LB FERTILICER PER 1/2 INCH CALIPER

TURF: 16-4-8 PLUS MINOR ELEMENTS - SLOW RELEASE 1 LB FERTILITER PER 1000 FT2

NOTE:
THE COST FOR LANDSCAPE FERTILIZER AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE PER PLANT PRICE PROVIDED TO THE GENERAL CONTRACTOR OWNER FOR CONTRACT BID AND MONTHLY DRAW PAY ITEMS.

18. SOIL PREPARATION AND SOIL MIX:

APPLY ROUNDUP (MANUFACTURED BY MONSANTO CORP.) OR APPROVED HERBICIDE EQUAL ACCORDING TO MANUFACTURER'S RATE AND SPECIFICATION WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVER-SPRAY OR SPRAY WITHIN ROOT TONE CONTRACTOR TO ENSURE TOTAL WEDE DERBICATION.

- BEFORE REPLACING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, AND REMAINING FROM REMOVED PLANT MATERIAL ALL SOIL LINE AND GRADE TO MEET CIVIL ENGINEER GRADING PLANS.
- SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES THEN APPLY "RONSTAR" OR APPROVED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH MANUFACTURER'S RATE AND SPECIFICATIONS. FOLLOW MANUFACTURER'S RECOMMENDED WAITING PERIOD PRIOR TO NEW LANDSCAPE
- d. PLANTING SOIL MIX FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL CONSIST OF A THOROUGHLY BLENDED MIXTURE OF

ROYAL PALMS, 600 CLEAN D.O.T. SAND

400 APPROVED TOPSOIL / SOLID WASTE COMPOST

TREES / ALL OTHER PALMS:

10 APPROVED TOPSOIL / SOLID WASTE COMPOST

SHRUBS, AND GROUND COVERS: 700 CLEAN D.O.T. SAND

300 APPROVED TOPSOIL / SOLID WASTE COMPOST

NOTE:

NOOLE
ONTRACTOR TO SUBMIT 3RD PARTY LABORATORY SOIL TESTS OF THE SOIL MIXTURES LISTED ABOVE FOR REVIEW AND APPROVAL BY THE
LANDSCARE ARCHITECT. SOIL TEST TO IDENTRY PH, MAJOR AND MINOR NUTRIENT MAKE-UPS, SOIL TEST RATINGS AND PROVIDE COMMENTS!
RECOMMENDATIONS OF THE LAB FOR ORNAMENTAL LANDSCARE AMENOMENTS!

- Q. COMPOST MIX SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH, SHALL BE FREE OF NEMATODES, SHALL BE OF NUMFORM QUALITY AND SHALL HAVE A PH VALUE BETWEEN 5.3 AND 5.5 (AS DETERMINED IN ACCORDANCE WITH ASTM E70) FLORIDA PEAT SHALL BE STERUILED TO MAKE FREE OF ALL WABLE NUT GRASS AND OTHER UNDESIRABLE WEEDS.
- □ TOPSOIL SHALL BE NATURAL FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE OF UNFORM COMPOSITION THROUGHOUT, WITH ADMINITURE OF SUBSOIL IT SHALL BE FREE OF STONES, LUMPS, LUMPS, LVE PLANTS AND THER ROOTS, STICKS, AND OTHER EXTRANEOUS MATTER. SPREAD TOPSOIL MIXTURE TO MINIMUM DEPTH OF THREE (3) INCHES THROUGHOUT ALL SOD AREAS AND SIX (6) INCHES IN ALL SKRIUG AND GOODINGOVER BEDS. REMOVE ALL ROOKS AND OTHER OSDJECTS OVER ONE (1) INCH IN DIAMETER.
- IL SMOOTH ALL PREPARED TOPSOIL TO THREE (3) INCHES BELOW TOP OF SURROUNDING PAVEMENT EDGES. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATTER MEETING LIME AND READERS SHOWN ON THE CIVIL ENGINEERS PLAN.
- □ SMOOTH TOPSOIL MIXTURE TO THREE (3) INCHES BELOW TOP OF SURROUNDING PAVEMENT EDGES IN AREAS TO BE SODDED.
- © TOPSOIL SHALL NOT BE EXTREMELY ACIDIC OR ALKALINE, NOR CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. THE PH SHALL BE IN THE RANGE OF 5.5 TO 6.5 IF NECESSARY. THE CONTRACTOR SHALL APPLY THE APPROPRIATE SOIL AMENDMENTS ADJUSTING SOIL PATE OR SUBJECT APPLY THE APPROPRIATE SOIL AMENDMENTS ADJUSTING SOIL PATE OR SUBJECT APPLY THE APPROPRIATE SOIL AMENDMENTS ADJUSTING SOIL PATE OR SUBJECT APPLY THE APPROPRIATE SOIL AMENDMENTS ADJUSTING SOIL PATE OR SUBJECT APPLY THE AP
- 20. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREE OR PALM. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 21. CONTRACTOR SHALL MULCH ALL PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A CONSISTENT THREE (3) INCH DEPTH WITH CLEAN, WEED FREE MULCH IN DARK BROWN COLOR UNLESS OTHERWISE SPECIFIED IN THE DRAWNIGS: (WWW) GOMULCH COM "FLORIMULCH BROWN" OR APPROVED EQUAL ISAMPLES REQUIRED FOR APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PROCUEMENT ANDOR INSTALLATION.)
- 22. INSTALLATION PERIOD: THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IN FULL, ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILLING, WEEDING, ETC.) UNTIL THE JOB IS ACCEPTED. IN FULL, AT THE END OF THE INSTALLATION PHASE BY THE OWNER AND LANDSCAPE ARCHITECT CONTRACTOR SHALL REQUEST INSPECTION OF PROJECT IN WRITING AT END OF INSTALLATION PERIOD. LANDSCAPE ARCHITECT AND OWNER ACCEPTANCE SHALL BEGIN THE ESTABLISHMENT PERIOD. THE ENTIRE PROJECT WILL BE ACCEPTED AT ONE
- 23. ESTABLISHMENT PERIOD : CONTRACTOR TO GUARANTEE, MAINTAIN, AND WATER PLANT MATERIAL FOR A NINETY (90) DAY ESTABLISHMENT PERIOD FOLLOWING DATE OF INSTALLATION PERIOD COMPLETION. CONTRACTOR SHALL REQUEST INSPECTION OF PROJECT IN WRITING AFTER NINETY (90) DAY ESTABLISHMENT PERIOD LANDSCAPE ACHITECT AND OWNER ACCEPTANCE SHALL BEGIN THE GUARANTEE PERIOD.
- 24. GUARANTEE PERIOD. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS, THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE SUBSTANTIAL COMPLETION IN WRITING UPON WRITING HEADLIST OF THE CONTRACTOR OF ACCEPTANCE OF THE WORKS AT THE END OF ESTABLISHMENT. ACKNOWLEDGMENT OF SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE ONE (1) YEAR GUARANTEE PERIOD.
- 25. ALL PLANT MATERIAL SHALL BE OF FLORIDA NO. 1 OR BETTER QUALITY AT TIME OF INSTALLATION AND SHALL BE MAINTAINED IN THIS SAME CONDITION UNTIL COMPLETION OF THE QUIRARNET PERIOD (DISTALLATION). ESTABLISHMENT, QUARANTEE) SHALL BE GROUNDS FOR REJECTION AND REPLACEMENT AS DETERMINED BY THE LANDSCAPE ARCHITECT AND COMPREA THE CONTRACTOR'S EXPENSE.
- 25. REMOVAL OF ALL STAKING AND GUYING OF TREES AND PALMS AFTER GUARANTEE PERIOD SHALL BE THE RESPONSIBILITY OF THE OWNER UNLESS OTHERWISE AGREED UPON WITH THE CONTRACTOR IN WRITING
- 27. IRRIGATION NOTES AND MINIMUM REQUIREMENTS:
  - ☐ A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A CONTROLLER AND APPLICABLE MOISTURE (RAIN) SENSOR LOCATED TO RECEIVE DIRECT RAINFALL SHALL BE PROVIDED. PROPOSED IRRIGATION SYSTEM TO BE RETROFIT AS ADDITIVE TO EXISTING LAYOUT, SUPPLY, ETC. AS APPLICABLE
  - APPLICABLE.

    ALL PLANTINGS SHALL HAVE 1000 FULL COVERAGE WITH IRRIGATION PROVIDE ONE BUBBLER PER TREE/ PALM AND DRIP OR SPRAY

    MECHANISMS FOR SHRUBS, GROUNDCOVER AND GRASSES/TURF SEE IRRIGATION PLANS FOR DETAILED LAYOUT REQUIREMENTS.
- VALVE SITING, DETAILING AND MAINLINE ROUTING MAY BE ADJUSTED BY THE LANDSCAPE ARCHITECT TO ACCOMMODATE THE NEEDS OF THE LANDSCAPE DESIGN IN THE FIELD.
- d. LANDSCAPE ARCHITECT MAY CHOOSE TO USE DRIP, BUBBLERS, STREAM BUBBLER, OR SPRAY IRRIGATION IN SHRUB AREAS AS REQUIRED BY
- FIELD CONDITIONS.

  IT THE IRRIGATION SYSTEM MILL OPERATE WITH SEPARATE VALVE COMES FOR TURF AREAS AND SHRUB PLANTING AREAS WHERE EFFICIENCY OF SEPARATION ALLOWS. THE CONTROLLER MILL BE SET TO OPERATE APPROPRIATE RUN TIMES FOR THE VARIOUS COMES AND THEIR REQUIRED PRECIPITATION REGIS IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES FOR IRRIGATION OF FLORICA LANDSCAPES.
- REQUIRED PRECIPITATION NEEDS IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES FOR INRIGATION OF FLORIDA LANDSCAPES.

  THE IRRIGATION SYSTEM MILL BE INSTALLED TO MINIMILE THE APPLICATION OF WATER TO IMPERVIOUS AREAS, ADJACENT PROPERTIES, AND EXISTING PEGETATION.
- I IRRIGATION SHALL BE INSTALLED TO MEET OR EXCEED APPENDIX F "PROPOSED CONSTRUCTION BUILDING CODES FOR TURF AND
  LANDSCAPE IRRIGATIONS SYSTEMS" OF THE FLORIDA BUILDING CODE PLUMBING (LATEST EDITION), AND IN ACCORDANCE WITH ASTM 02855.



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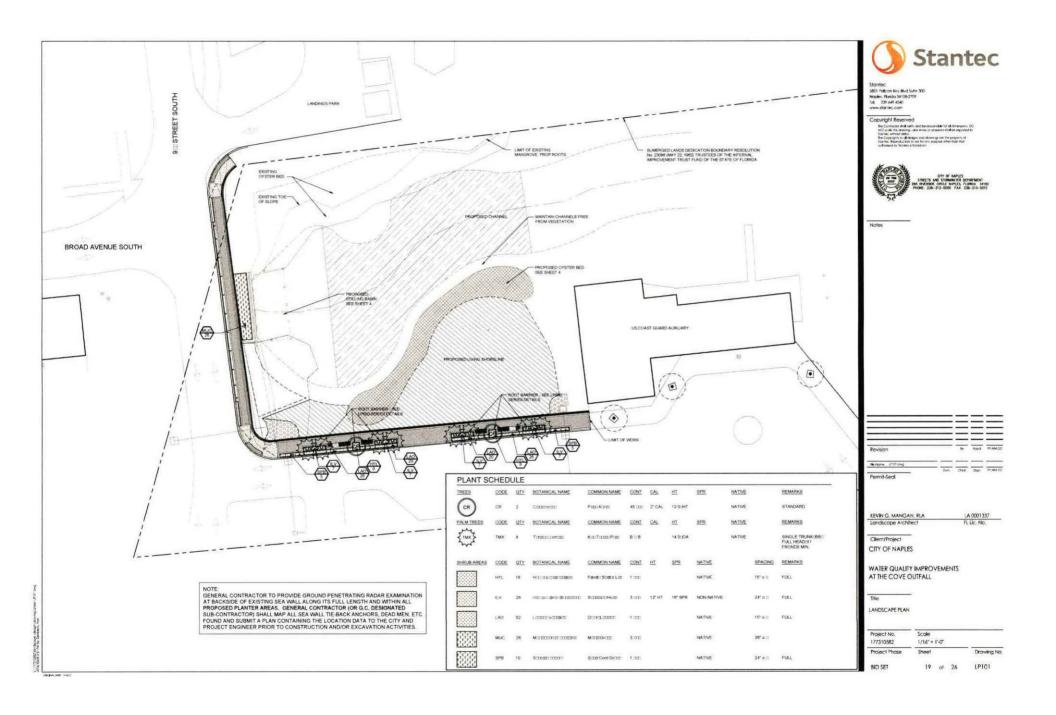
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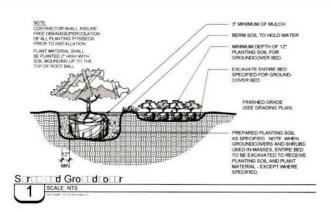
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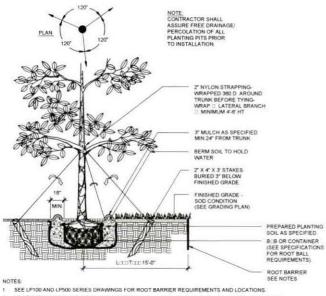
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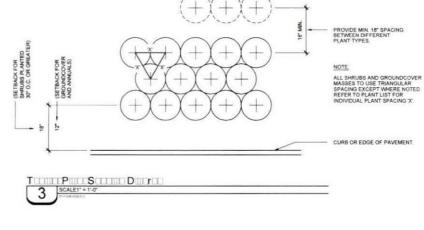


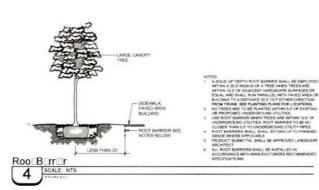




2. KEY THATCH PALMS AND PITCH APPLE TREES TO HAVE A MINIMUM OF THREE (3) POINTS OF BRACING.









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KEVIN G. MANGAN, RLA LA 0001337

Landscape Architect FL Lic. No.

Client/Project

CITY OF NAPLES

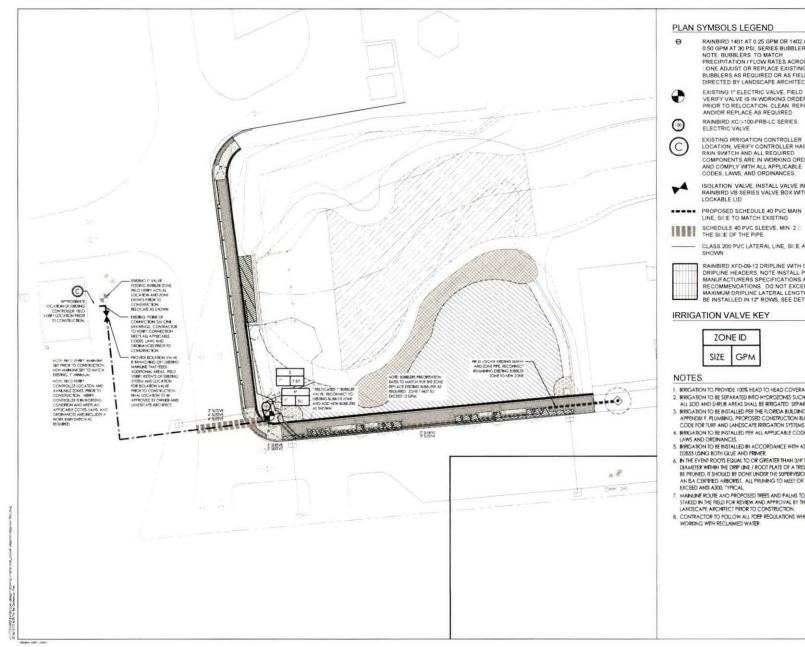
WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

LANDSCAPE DETAILS

Project No. 177310582	Scale AS SHOWN	
Project Phase	Sheet	Drawing No.
BID SET	20 of 26	LP501

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PERCHAPAGE



### PLAN SYMBOLS LEGEND

RAINBIRD 1401 AT 0.25 GPM OR 1402 AT 0.50 GPM AT 30 PSI, SERIES BUBBLER. NOTE: BUBBLERS TO MATCH PRECIPITATION / FLOW RATES ACROSS ONE ADJUST OR REPLACE EXISTING BURBLERS AS RECUIRED OR AS FIELD DIRECTED BY LANDSCAPE ARCHITECT



EXISTING 1" ELECTRIC VALVE, FIELD VERIFY VALVE IS IN WORKING ORDER PRIOR TO RELOCATION CLEAN, REPAIR AND/OR REPLACE AS REQUIRED RAINBIRD XCD-100-PRB-LC SERIES



EXISTING IRRIGATION CONTROLLER LOCATION, VERIFY CONTROLLER HAS A RAIN SWITCH AND ALL REQUIRED COMPONENTS ARE IN WORKING ORDER AND COMPLY WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES.



ISOLATION VALVE, INSTALL VALVE IN RAINBIRD VB SERIES VALVE BOX WITH LOCKABLE LID



LINE, SILE TO MATCH EXISTING SCHEDULE 40 PVC SLEEVE, MIN 2 III



CLASS 200 PVC LATERAL LINE, SIDE AS



RAINBIRD XFD-09-12 DRIPLINE WITH QF DRIPLINE HEADERS, NOTE INSTALL PER ALL MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS DO NOT EXCEED MAXIMUM DRIPLINE LATERAL LENGTHS TO BE INSTALLED IN 12 ROWS, SEE DETAILS

### IRRIGATION VALVE KEY

ZONE ID		
SIZE	GPM	

### NOTES

- 1. BRIGATION TO PROVIDE 100% HEAD TO HEAD COVERAGE
- 2. WRIGATION TO BE SEPARATED INTO HYDROZONES SUCH THAT. ALL SOO AND SHOUR APPAS SHALL BE IPPIGATED SEPARATELY
- 3. BRIGATION TO BE INSTALLED PER THE FLORIDA BUILDING CODE APPENDIX F, PLUMBING, PROPOSED CONSTRUCTION BUILDING CODE FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS.
- 4. IRRIGATION TO BE INSTALLED PER ALL APPLICABLE CODES. LAWS AND ORDINANCES.
- 5. IRRIGATION TO BE INSTALLED IN ACCORDANCE WITH ASTM. D2855 USING BOTH GLUE AND PRIMER.

  6. IN THE EVENT ROOTS EQUAL TO OR GREATER THAN 3/4" IN
- DIAMETER WITHIN THE DRIP LINE / ROOT PLATE OF A TREE-MUST BE PRUNED. IT SHOULD BE DONE UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST. ALL PRUNING TO MEET OR EXCEED ANSI A300, TYPICAL
- 7. MAINLINE ROUTE AND PROPOSED TREES AND PALMS TO BE STAKED IN THE FIELD FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 8. CONTRACTOR TO FOLLOW ALL FDEP REGULATIONS WHEN WORKING WITH RECLAIMED WATER



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the Commission will early and be emporable for of dimensions, 300 MV such the steading-one result or ordinary strategy expended by larger effects earlier. He conjugate to different entire commission of the conjugate to different entire commissions of the different entire commission of the different entire commission of the different entire commission of the different force.



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KEVIN G. MANGAN, RIA LA 0001337 Landscape Architect FLLIC No.

Client/Project CITY OF NAPLES

WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

IRRIGATION PLAN

Project No. 177310582	Scale 1/16" = 1'-0"	
Project Phase	Sheet	Drawing N
BID SET	21 of 26	IR101

BID SET 21 of 26 COMPACTOR SHALL COMACT LANDSCAPE ARCHRECT PRIOR TO COMMUNICATION OF ANY COMERCITION IF AVAILABLE TOWN AND PRESSURE DESARES INCOME THAN 18, AND WILL ARREST RESCRIMANCE OF SYSTEM. MINIMUM PRESSURE REQUIREMENTS AS PULAT FOR CO. CONSECTION

30 FS AT BASE OF BUBBLESS SS FS AT DRIP VALVES

(2) HEAD LATOUT BASED ON BASE INFORMATION PROVIDED, HEADS SHALL BE ADJUSTED TO ACCOMMODATE REID VARIATIONS WHEE MAINTAINED STOKE HEAD SO LEAD COMPAGE AND MINIMUM OVERPEAR OWNED PAYED ASSAS AND REIDINGS.

LATERAL PIPE SHALL RESIDED SO THAT WATER VILIDIEN DOES HOT EXCHED SITES PER SECOND, MARRIAGE CIPIA PER PIPE SIZE AS POLICING.

THE HE 20 GPM 1.177.000 THE CORNE THE 45 GPM 7.1/2 PM 12 GPM 100 524

177 FFE SHALL NOT BE USED FOR LATERAL PRE-EXCEPT FOR SHREE PROFIL

ALL BOTORS TO BE INTRALED ON SWING JOINTS, PER MANUFACTURES SPECIFICARDAS AND RECOMMONDATIONS. ROTORS SHALL HOT BE INSTALLED ON RES. MAR.

### GENERAL NOTES

OD NOT BEGIN ELCAVAZION LINII. ALI UNDEPORDUNDI URIBES HAVE BERNLIDCARRO AND MARRED. CALL SIL AS REQUIRED BY THE UNDERSKOUND FACERY DANGEY PREPYRITION AND SAFETY ACT. CHAPTER 556. PLORIDA STATUTEL AVIDIO DANAGEY DI ALI UNITES HAND ENVANTE AS REQUIRED. REGIATION STITEM TO BE NOTALLED FRE ALL APPLICABLE CODES, LAWS AND ORDINANCE THYCAL

RRIGATION STITEM TO BE INSTALLED FOR PLOREDA BUILDING CODE APPRICIEF PLUMBING, PROPOSED CONSTRUCTION BUILDING CODES FOR TURF AND LANDSCAFE RRIGATION SYSTEMS.

SUBJYES SHALL BE PLACE UNDER PAYEMENT AS SHOWN ON PLANS AND SHALL BE A MEMALIM OF 25 THE SEE OF THE BOOKS ATTON PRO-THE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWNESS. THE SMALLEST LARRAC, MPE SIZES OF SPICER SMALL OF ROTHER AND SHALL BE A MERCHING OF POSICION OF ROTHER SMALLEST SHALL CONFORM TO THOSE SHOWN ON THE DRAWNESS. THE SMALLEST LARRAC, MPE SIZES OF SPICER SMALL OF ROTHER SMALLEST SHALL BE SMALL BE SMALL BE SMALLEST SHALL BE SMALL BE SM

ALL SOLVENT WILD JOHTS TO SE MADE IN COMPUNICE WITH ASTM DOBSS LISING BOTH PRIMER AND GLUE

PRIEFE TO THE LANDSCAPE PLANS WHEN TERMORING TO A VIOLD THE AND THRUS LOCATIONS.

ALL FOR-EP SPAY HEADS SHALL BE INSTALLED USING AN 16 PVC. FLEX PPE OR SWING JOINT CORRECTION, ALL ROTOR HEADS SHALL BE INSTALLED USING SWING JOINTS, CONTRACTOR SHALL NOT USE FURNY PIPE.

ALL RISERS SHALL BE INSTALLED 12" FROM ANY WALL AND A AMPINIUM OF 36" FROM ANY SIDEWALL PARTO OF ROAD.

ALL RISES SHALL BE STAKED WITH A 1" P.T. WOOD DOWEL AND SECURED WITH UN RESETANT PLASTIC CASIL RISE RISERS AND DOWE SHALL BE PARRED IN ATEL ACTS WITH CHICKDOOR UN RESETANT PARK!

THE LANCISCAPE ARCHECT RESERVES THE RICHT TO DETERMINE THE EXACT REGIST OF ANY 12' POPULE THAT IS SHOWN IN A SHRUE BIED ON THE

ALL REMOTE CONTROL VALVES, GATE VALVES AND QUECK COUPLES SHALL SE INSTALLED IN VALVE BOXES.

THAT LOCATION OF THE AUTOMATIC CONTROLLERS) SHALL BE APPROVED BY THE OWNER.

COMPROL WRITE SHALL SE LEAL OF CREEK TAYBALL COMMON WIRE TO SE LEAL OF CREEK BURNAL, WRITES TO BE COLORED RED FOR COMPROL WRITES AND WHITE FOR COMMON WRITES, AND CHOSES CONNECTION WHITES AND WHITE FOR COMMON WRITES, AND CHOSES CONNECTION WHITES AND CHOSES CONNECTION WHITES AND CHOSES CONNECTION WHITES AND WITES SHALL SE ALL OWID WRITE PRICESSANL SEA AND CHOSES OF CONNECTION WITES AND WITES WAS AND CHOSES OF CONNECTION WHITES AND CHOSES OF CONNECTION WITES CONNECTION WITES AND CHOSES OF CONNE

BICCITICAL SERVICE TO ALL SOUPHENTSHALL BE PROVIDED TO A JINCIPOL BOX AS THE EQUIPMENT LOCATION, BY OTHER, NOT A PART OF HE CONTRACT THE PRESANCH CONTRACTOR SHALL BE REPORTED FOR THE HALL CONNECTION FROM HE JACKTON SOUND ALL COMPANIES.

JACTEN BOX TO AL COMMENT.

AND STOCK SHALL BETAVED ON A STATIONAR'S SPOCIUM, WITH A MEMORA CLEARANCE OF HIVE FEET (S) FROM EQUIPMENT, NEED OF OVERAGE.

NEED OF OVERFILED ON STATIONARY AND AGOVE THE HIGHER OF SPRINGLESS COVERAGE.

FIG. THE REPONDBLIST OF THE PREVATION CONTRACTOR TO FAMILIABLE HURSE? WITH, AND REPORTE CARE SO AS TO NOT DANAGE ANY DIGITION CHARLES PREVENTED AND MATERIALS AND USINGS. THE REPORTION CONTRACTION FULL BE ADDROCKABLE FOR THE AMERICAN REPORT OF REPORTED AND OF A BUILD GROWNADD IN FINE WICK. IN SHIPL CONTRACTION WITH A BUILD GROWNADD IN SHIPL CONTRACTION OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND REPORT OF SHIPLE AND PRIME THROUGH WALLS, UNKNOWN AND THROUGH WALLS, UNKNOWN

ACADIANT AND PANEL BIO.

AND THE OF PANELS SOWN OUTSET HE PROPERTY INFO OF USER'S AND THEM TRECORD MALL LIVES AND THEM TO PANELS SOWN OUTSET HE PROPERTY INFO OUTSET. OF A LIVES AND THEM THE THE PANELS AND THE PANELS

ESPENDIEUT FÜR ALF ERVEICHE. COMMENTE AUF VOLLIEGTEST ON FREGATION WATER SOURCE OVER A COMMISSION ON HOUR FERSON PRICE ON THE COMMENCES ON HOUR FERSON PRICE TO THE COMMENCEMENT OF ANY CONCENTRATION MORE. DIVERTID THE ANALASE SPREY VIOLE & ADEQUATE TO MEET THE DEVANDE OF THE REPORTION STREET AS DESCRIPT OF CONTRACTOR SHALL COMPACT THE LANGIC ARE ARCHITECT FROM TO CONFIDENCIATION OF DESCRIPT AND FROM THE CONTRACTOR SHALL COMPACT THE LANGIC ARE ARCHITECT FROM TO CONFIDENCIATION.

THE RESIDENCE OF THE RE

NATION AND ALL WAS AND DEPOID THAT DEBACE.

THE COMMISSION BULL PREPARA A SCALE TRANSPORT OF THAT SPECIAL PROPERTY AND PRO

ALL WORKSHALL BE GUARANTED FOR THE TEAR FROM THE DATE OF RHAL ACCEPTANCE, AGAINST ALL DEFECTS IN SQUEMEN. AND WORKMANGER.

ALL SPENNO FR EQUIPMENT NOT OTHERWISE DISTABLED OR SPECIFIED SHALL REPOSTALLED AS PER MARKIFACTURER'S RECOMMENDATIONS AND SHEDRICATIONS.

REMOVE ALL UNKNED AND ABARDONED PREGATION UNKS

29. ALL VALVES TO RELOCATED IN SHRUB AREAS AS OPPOSED TO TURK AREAS WHERE POSSIBLE

### DRIP IRRIGATION NOTES

NOTE, INTIALL PAINTING DRIPLING USING RAINING EASY IT COMPRISION PITTINGS NOTE INSTALLA KAMBRO MOCICAPERSY HI FLISH CAF AT THE BROOK ALL LICEPAL RUN.

NOTE INSTALL A GATE VALVE AFTER EACH LOW VOLDING CONTROL VALVE

NOTE ALL YALVES, 1975 AND WINDS TO BE PLACED WEIGH LANDSCAPE AREAS WHEN EVER POSSELE LINESS CRESSING PROM ONE LANDSCAPE AREA TO ANOTHER PRECASE EXTENSIONED PLANES TO A VEHICLE OF CLASHITY ONE.

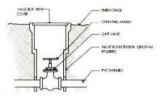
HOLD DEP TIBLIG LATORE S CHEMARIC, LATORE ALEAS ID HAVE DEP BRIGATION TO ALL MANUACTURES SPECIFICATIONS AND RECONSIDERING.

NOTE FLOWS INDICATED FOR VALVES ARE ESTIMATED SASED UPON THE DIVAMINGS, ACTUAL FLOW MAY MARY, AT NO TIME UPOULD THE HOW WITHIN THE PLYC INCREASE FACETIC SEPTIME VECTORS HOTE BOTAL BANKED ITO DEFASION BOIL NOW ON SACH ZONE FIX ALL MANUFACTURES RECOMMENDATIONS AND SPECIFICATIONS.

### VALVE CHART, NEW ZONES

VALVE HUMBER	TYPE	102	GPM		
100	BUBBLER	15	54		
2	DRIP	1"	7.37		

HOTE: CONTROLLER PEQUIPES RAINSHUT OFF SWITCH, PAININED RIGICES HOTE: CONTROLLER TO HAVE LINE WELANDOLAE



NOTE: SEE CASE VALVE TO MARCH MARRIEDE SEE

SOMETH CHEAP LENGTH OF WIRE

WATER PROOF COMMECTION VALVE OTAG

VALVE BOX WITH COVER 124NCH SEE

MANCO CONTROL VALVE PVC SOLATION VALVE

SCALE-NIS

(7) (B)

00000

(9)

TRASH CHACK

@34

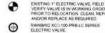
2 REMOTE CONTROL VALVE

GATE VALVE DETAIL

SCALE: NTS

### PLAN SYMBOLS LEGEND

PAINBRID 1401 AT 6 25 GPM OR 1402 AT 0.50 GPM AT 30 PSI, SERIES BUBBLER NOTE: SUBBLERS TO MATCH PRECIPITATION / FLOW RATES ACROSS JONE ADJUST OR REPLACE EXISTING SUBBLERS AS PEDIARED OR AS FIELD DIRECTED BY LANDSCAPE ARCHITECT





EXISTING IRRIGATION CONTROLLER LOCATION, VERHEY CONTROLLER HAS A RAIN SWITCH AND ALL REQUIRED COMPONENTS ARE IN WORKING ORDER AND COMPLY WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES



ISOLATION VALVE, PISTALL VALVE IN RAINBIRD VB SERIES VALVE BOX WITH LOCKABLE LID PROPOSED SCHEDULE 40 PVC MAIN UNE, SIDE TO MATCH EXISTING



SCHEDULE 40 PVC SLEEVE, MIN. 2 ()
THE SIDE OF THE PIPE



CLASS 200 PVC LATERAL LINE, SILE AS



RAINBIRD XFD-09-12 DRIPLINE WITH OF DRIPLINE HEADERS, NOTE INSTALL PER ALL MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. DO NOT EXCEED MAXIMUM DRIPLINE LATERAL LENGTHS TO BE INSTALLED IN 12" ROWS, SEE DETAILS.

(10)

0

0

13 (3)

### IRRIGATION VALVE KEY



### NOTES

IRRIGATION TO PROVIDE 1995 HEAD TO HEAD COVERAGE

A BRIGATION TO REINSTALLED HER ALL APPLICABLE CODES.

5. BRIGATION TO BE INSTALLED IN ACCORDANCE WITH ASTM

5. RESIMENT OF EXPONENT MET PROPERTY OF A THE PROPERTY OF A THE PROPERTY OF A THE PROPERTY OF A THE MET PROPERTY OF A THE MEST OF THE MEST OF

EXCEED ANSI AXIO, THRICAL,

MANURE POLITE AND PROPOSED TREES AND PALMS TO BE STAKED IN THE PRICE FOR REVIEW AND APPROVAL MY THE LANDICARE ARCHITECT PRICE TO CONSTRUCTION.

B. CONTRACTOR TO FOLLOW ALL FIDER REGULATIONS WHEN WORKING WITH RECLANATO WATER.

(3) 1" LIGHT COMMERCIAL CONTROL ZONE KIT 100-PRB-LC



2 VALVE BOX WITH COVER: RAIN BIRD VB-STD

(3) 30-INCH LINEAR LENGTH OF WIRE, COILED

(4) WATERPROOF CONNECTION: RAIN BIRD OB SERIES

(3) ID TAG

(included in CZK-100-PRB-LC KIT)

PRESSURE REGULATING BASKET FILTER: RAIN BIRD PRB-100 (INCLUDED IN CZK-100-PRB-LC KIT)

(B) PVC SCH 40 FFMALE ADAPTOR

(9) LATERAL PIPE

(10) PVC 5CH 80 NIPPLE (LENGTH AS REQUIRED)

(13) PVC 5CH 40 ELL

12 PVC SCH BO NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL

13 PVC SCH 40 TEE OR ELL

(14) MAINLINE PIPE

(15) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL



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Notes



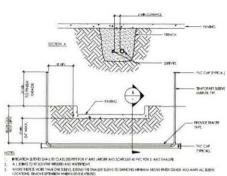
LA 0001337 Landscape Architect

Client/Project CITY OF NAPLES

WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

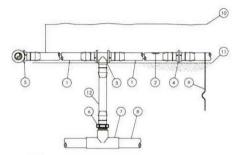
IRRIGATION NOTES AND DETAILS

Project No. 177310582	Scole NTS			
Project Phase	Sheet			Drawing No
BID SET	22	of	26	IR501



TWICE HE PRE CHANESE 6 NO. WWW FRISH DRACE PYCLATERAL PRINC

3 TYPICAL TRENCH CROSS SECTION



INSEL A

(11) 10

IN THE ACCOMPANYING TABLE

1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.

2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN

IN THE ACCOMPANYING TABLE.

3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM,
AND FIVE FEET IN CLAY.

4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR
ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

5. WHEN USING 177MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS
RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFD ON SURFACE DRIPLINE ODD CURVES LAYOUT

2

(3)

NOTIES:

1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN

2. AT RITINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR EIBOWS, USE
TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DRECTION.

3. SAVEY YOUR HANDS, USE THE RAYN RISK PHIRST-OOK ST

ASSEMBLY

1) XFD ON SURFACE DRIPLINE RISER ASSEMBLY

1 PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT

4 PVC SUPPLY MANIFOLD

(5) PVC SCH 40 TEE OR EL (TYPICAL)

(7) ON-SURFACE DRIPLINE:

(13) 2'-3" DEPTH OF MULCH

<b>x</b>	FD Driplin	e Maximu	m Lateral I	engths (F	eet)	
	12° S	pacing	18" S	pacing	24*1	
Inlet Pressure psi	Nominal Flow (gph)		Nominal Flow (gph)		Nominal	
	0.6	0.9	0.6	0.9	0.6	
15	273	155	314	250	424	
20	318	169	353	294	508	
30	360	230	413	390	586	
	204	444		-84		

ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE 0

2 INLINE DRIP EMITTER OUTLET, SEE PLANS FOR DRIPLINE OUTLET SPACING.

3 BARB TEE 17x17x17mm RAIN BIRD XFF-TEE

BARB COUPLING 17x17mm RAIN BIRD XFF-COUP

5 BARB ELBOW 17x17mm RAIN BIRD XFF-ELBOW

(6) BARB MALE ADAPTER 17mm X 1/7 MM PABN RIPC) XFF-MA-050 17mm X 3/4" MPT RAIN BIRD XFF-MA-075

7) PVC TEE SXSXT

(8) PVC LATERAL SUPPLY HEADER

TIE DOWN STAKE: RAIN BIRD TOS-050 WITH BEND (TYPICAL)

(10) MULCH

(11) FINISH GRADE

(2) RAIN BIRD XF SERIES BLANK TURING LENGTH AS REQUIRED

(SIZED TO MEET LATERAL FLOW DEMAND)

2 PERIMETER OF AREA

(3) PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA

BARB X MALE FITTING:

RAIN BIRD XF SERIES DRIPLINE (TYPICAL)
POTABLE: XFD DRIPLINE
NON-POTABLE: XFDP DRIPLINE

8 BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)

TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE

11) FLUSH POINT: SEE RAIN BIRD DETAIL "KFD FLUSH POINT"

(12) PVC RISER PIPE

(14) FINISH GRADE

	12° S	pacing	18" S	18* Spacing		pacing
niet Pressure psi	nt Pressure psi Nominal I		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	390	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

CONTROL SERVICE AND ALL SERVICES AND ALL (2) IRRIGATION SLEEVING DETAIL

IR502

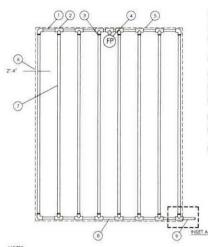


WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

IRRIGATION DETAILS

Project No. Scale 177310582 NTS Drawing No.

BID SET 23 of 26



1) PVC EXHAUST HEADER

2) PVC SCH 40 TEE OR EL [TYPICAL]

(3) BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING /TYPICALI

FLUSH POINT (TYPICAL)
SEE RAIN BIRD DETAIL OFD FLUSH POINT

(5) PERIMETER OF AREA

(6) PERIMETER DRIPLINE PIPE TO BE INSTALLED 2'-4' FROM PERIMETER OF AREA

ON-SURFACE DRIPLINE:
RAIN BIRD XF SERIES DRIPLINE

(8) PVC SUPPLY HEADER

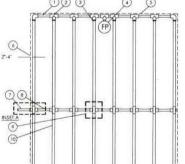
PVC DRIP MANIFOLD FROM PAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)

TO PUC SCH AD PISER PIPE

	12° S	pacing	18° S	pacing	24" S	pacing		
Inlet Pressure psi	Nominal F	Nominal Flow (gph) Nominal Flow (gph)		Nominal Flow (gph)		Flow (gph)	Nominal I	low (gph)
	0.6	6.9	0.6	0.9	0.6	0.9		
15	273	155	314	250	424	322		
20	318	169	353	294	508	368		
30	360	230	413	350	586	414		
40	395	255	465	402	652	474		
50	417	285	528	420	720	488		
60	460	290	596	455	780	514		







2) PVC SCH 40 TEE OR EL (TYPICAL)

3 BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)

4 FLUSH POINT (TYPICAL)
SEE RAIN BIRD DETAIL "XFD FLUSH POINT"

(6) PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA

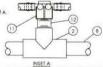
PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)

(8) PVC SUPPLY MANIFOLD

(9) CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL) SEE INSET A.

(10) ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL)

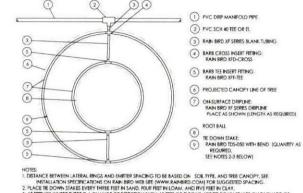
(12) 3/2 PVC NIPPLE LENGTH AS NECESSARY



NOTES:	
	ETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN N. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF I	LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE
3. WHEN USING	S 17MAI INSERT HITINGS WITH DESIGN PRESSURE OVER SOPSI IT IS DECOMMENDED THAT STABILIESS STEEL CLAMPS B

3, WHEN USING 17 MM WALLS INSTALLED ON EACH FITTING. 3 XFD ON SURFACE DRIPLINE CENTER FEED LAYOUT

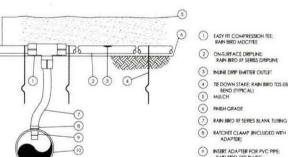
XFD Dripline Maximum Lateral Lengths (Feet)								
Inlet Pressure psi	12" Spacing Nominal Flow (gph)		18" S	18" Spacing		pacing		
			Nominal Flow (gph)		Nominal Flow (gph)			
	0.6	0.9	0.6	0.9	0,6	0.9		
15	273	155	314	250	424	322		
20	318	169	353	294	508	368		
30	360	230	413	350	586	:414		
40	395	255	465	402	652	474		
50	417	265	528	420	720	488		
60	460	290	596	455	780	514		



AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF.

THE CHANGE OF DIRECTION

(2) XFD ON SURFACE DRIPLINE AROUND TREE



EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE

ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE

4) TIE DOWN STAKE: RAIN BIRD TOS-050 WITH BENCI (TYPICAL)

7 RAIN BIRD XF SERIES BLANK TUBING

INSERT ADAPTER FOR PVC PIPE:

10 PVC LATERAL PIPE

1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.

2. AT HITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

4) XFD ON SURFACE DRIPLINE INSERT ADAPTER
FOR 1-1/Z OR LARGER PVC
SCALE: NTS



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KEVIN G. MANGAN, RIA Landscape Architect			L 00013	
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CITY OF NAPLES WATER QUALITY IMPROVEMENTS

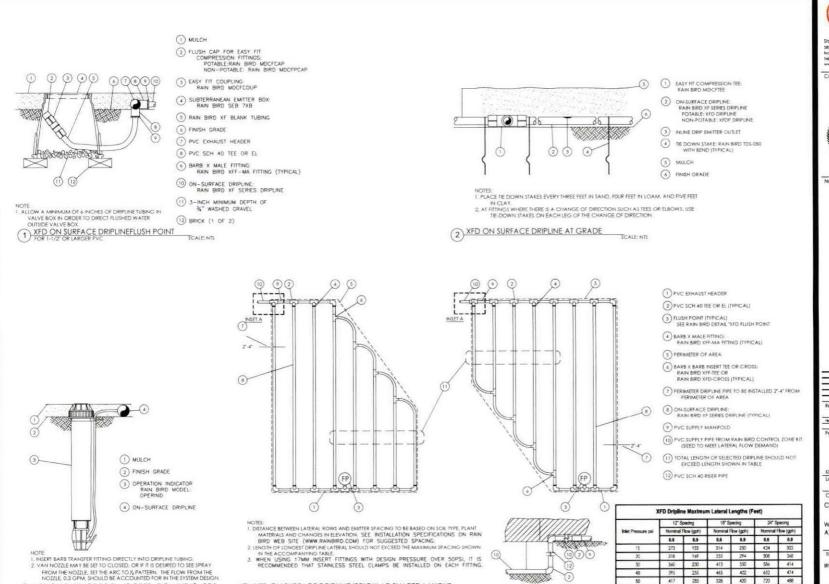
AT THE COVE OUTFALL

IRRIGATION DETAILS

Client/Project

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Project Phase	Sheet			Drawing
BID SET	24	of	26	IR503

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KEVIN G. MANGAN, RLA Landscape Architec

Client/Project CITY OF NAPLES

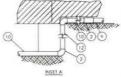
WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

IRRIGATION DETAILS

Project No. 177310582	Scale NTS				
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BID SET	25	of	26	IR504	

(3) XFD ON SURFACE DRIPLINE OPERATION INDICATOR

(4) XFD ON SURFACE DRIPLINE IRRIGULAR SHAPED LAYOUT



### GENERAL NOTES:

- THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 2014 EDITION, THIS CODE PRESCRIBES WHICH FOITION OF EACH REFERENCED STANDARD APPLIES TO THIS PROJECT
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS AND SPECIFICATIONS COMPLY WITH THE
- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL STATE, AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ENVIRONMENTAL AND LANDSCAPE DOCUMENTS. USE THESE NOTES IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IF A COMPLICT EXISTS. THE MORE STRINGENT GOVERNS
- DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION, QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND PREMEMBERS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION, DO NOT SCALE DRAWINGS: USE ON PRINTED DIMENSIONS, REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING. WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE NO DAMAGE DOCURS TO THE SEAWALL
- 10. THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED, PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING, WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STARILITY OF THE STRUCTURE

11. DESIGN SUPERIMPOSED LOADS:

HANDRAL 50 m/h

12. DESIGN WIND LOADS GOVERNING CODE

ASCE 7-10 BUILDING RISK CATEGORY V = 151 MPH (3 SECOND GUST)

ULTIMATE WIND SPEED

MEAN SIGN HEIGHT DIRECTIONALITY FACTOR KD = 0.85

TOPOGRAPHIC FACTOR KZT + 1.0 **GUST-EFFECTS FACTOR** G = 0.85

WIND LOADING ANALYSIS FREESTANDING WALLS AND SIGNS (ASCE 7-16 29.4.1)

SIGN DESIGN WIND PRESSURE \* 105 PSE

THIS PRESSURE IS THE COMPONENTS AND CLADDING ULTIMATE PRESSURE PERPENDICULAR TO THE SIGN SURFACE BASED UPON CASE OF DRESSURES CHIE SECTION \$2.1. SPECIALTY ENSINEER MAY REQUEST REDUCED WIND PRESSURES. FOR SERVICE PRESSURES, MILITIPLY VALUE BY 0.5.

### SHOP DRAWINGS AND OTHER SUBMITTALS

- SUBMITTALS FOR SPECIAL STRUCTURAL LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF A DELEGATED ENGINEER. EXAMPLES INCLUDE HAND RAIL SYSTEM
- A DELEGATED ENGINEER IS DEFINED AS A FLORIDA LICENSED ENGINEER WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBJECT ALL DREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR DEFICER OF OR CONSULTANT TO THE CONTRACTOR OF FABRICATION RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATE BYGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL INCLUDING CALCULATIONS AND DRAWINGS. SEE SPECIFICATIONS FOR MORE
- THE TRADE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, CUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE GENERAL CONTRACTORICONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWNING PRIOR TO SUBMITTING TO THE ARCHITECT. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE. COMPLEX WITH THE SUBMITTAL RECUMBENETS AND IS COMPONATED. WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTABILITY
- THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERROR
- IN ADDITION TO THE ABOVE. THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED ENGINEER SUBMITTALS IS LIMITED TO VERFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SMEED BY THE DELEGATED ENGINEER AND THAT THE GLEGATED ENGINEER HAS UNDESTROUGH THE DESIGN INTERT AND USED THE SPECIFIED STRUCTURAL CRITERIA. NO BETALLED CHECK OF CALCULATIONS WILL BE MADE. THE DELECATED ENGINEER IS SOLELY DESPONSELY FOR HISARD DESIGN. INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HISHER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND

### SHALLOW FOUNDATIONS

- FOOTING SIZES AND REINFORCING ARE BASED ON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 pxf. ALL FOOTINGS SHALL BEAR ON NATURAL SOIL
- 2. COMPACT SUBGRADE TO 95% SPMDO DETERMINED PER ASTM 0156.

## REINFORCED CONCRETE

- 1 COMPLY WITH ACLISH AND THE
- 2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH OF 4000 PSI IN 28 DAYS.I
- 3. USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS, U.O.N.
- PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL, REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR DIA, PROVIDE COVER OVER REINFORCING AS FOLLOWS:

- WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A-185, SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE ONE CROSS WIRE SPACING PLUS
- PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACID18, SECTION 6.4. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- 7. PROVIDE 3/4" CHAMFER FOR ALL EXPOSED CORNERS
- PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS

### PLATE BY SPECIALTY ENGINEER SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND THE A RESOLUTE ALL MAINS IN DESIT CALCULATIONS PRIOR TO PLATE, PROVIDE CHAMFER AT SLAB ON GRADE TO ALLOW DI ACEMENT COAT LINDEPRIDE NEW BULKHEAD CAP ALIGNED #4 CONTINUOUS SANDSET PERVIOUS 17% DRIESS PAVERS SEE #4 x 1'-0" + HOOK EPOXY EMBEDMENT INTO SEAWALL @ 2-0" O.C. SUBGRADE PER LANDSCAPE DRAWINGS EXISTING SEAWALL (2) 1/2" Ø STAINLESS STEEL WEDGE ANCHORS WITH 3 1/4" EMBEDMENT AT 6" GUAGE, TYP. EIELD VERIEV



### POST-INSTALLED ANCHORS - GENERAL

- 1. SUBSTITUTION REQUESTS WILL BE CONSIDERED FOR PRODUCTS HAVING AN ICC-ES REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION. SUBSTITUTE CONCRETE ANCHORS MUST BE APPROVED FOR USE IN GRACKED CONCRETE. SUBSTITUTION REQUESTS SHALL INCLUDE SIGNED AND SEALED CALCULATIONS INFERRED BY A FLORISM LICENSE DIGINISHER WAS DEMONSTRATED BY A FLORISM LICENSE PRODUCT IS CAPABLE OF A CHEVING THE EQUIVALENT FERFORMANCE VALUES OF THE DESIGN BASIS
- CONFIRM THE ASSENCE OF REINFORCING STEEL BY DRILLING A 14" DIAMETER PILOT HOLE FOR EACH ANCHOR, DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- 3. INSTALL IN ACCORDANCE WITH MANUSACTURED'S INSTRUCTIONS. REFER TO MANUFACTURED'S INSTALLATION. INSTRUCTIONS FOR APPROPRIATE DRILL SIZE, CLEAN HOLE AND REMOVE DUST

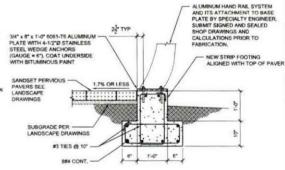
### MECHANICAL ANCHORS

1. ANCHORING INTO CONCRETE

WEDGE-TYPE MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED ANCHORS INCLUDE THE HILTI KWIK BOLT TZ. POWERS POWER-STUD+SD1, AND SIMPSON STRONG-BOLT 2.

### CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BARS, THREADED BARS AND ANCHOR BOLTS

- USE AN EPOXY ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE HILTI HIT HY150, ITW RAMSET/RED HEAD EPCON AT ORICS INJECTION SYSTEM, POWERS POWERFAST + SYSTEM, SIMPSON STRONG-TIE AT ORIET, ALLIED FASTENER ALLIED + OR ACCEPTED EQUIVALENT, FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- 2. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROPRIATE DRILL SIZE. THOROUGHLY
- 3. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS



FOOTING HANDRAIL ATTACHMENT



S801 Pelican Boy Boulevard Lide 300

ALUMINUM HAND RAIL SYSTEM

AND ITS ATTACHMENT TO BASE

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PARLO A GARCIA

CITY OF NAPLES WATER QUALITY IMPROVEMENTS AT THE COVE OUTFALL

STRUCTURAL NOTES AND DETAILS

177310582 1"=1'-0" Sheet

Client/Project

Drawing No. 5-001