



Financial Management Department
Purchasing Division
1112 Manatee Ave W Suite 803
Bradenton, FL 34205
Phone: (941) 749-3074
www.mymanatee.org

Email

January 19, 2017

TO: All Interested Bidders

SUBJECT: Invitation for Bid (IFB) #16-2884DC
Pic Town Estates Potable Water Phase I
ADDENDUM #2

Bidders are hereby notified that this Addendum shall be acknowledged on the Bid Form and made a part of the above named bidding and contract documents.

1. Deadline for Clarification Requests is extended to 5:00 PM, January 27, 2017.
2. Bid Opening Date is extended to 3:00 PM, February 17, 2017, same location.
3. Construction Estimate as of this date is \$1,131,000.
4. Information Conference sign-in sheet is attached for your information.
5. IFB Section B, Item B.03 Liquidated Damages: The sum is changed to \$692 per calendar day (in lieu of \$1,742).
6. Responses regarding the proposed piping material is summarized as a General Note added to the Plans to clarify that piping installed under roadways, concrete or asphalt driveways, or parking lots via open-cut shall be ductile iron. Additional call-outs of the piping size and material are added to the Plans.

Revised Plans are available at the following link:

<https://www.mymanatee.org/uploader/?ShareToken=E3A3FC4E53E997B3B579D25652B960519043E6A4>

Need help? See some troubleshooting tips at <http://www.Serv-U.com/sharefiles>.
The link to transfer your file(s) will expire on Friday, February 17, 2017 2:32 PM.

7. Plan Sheet P-01: 3" shall be high-density PE 3408 polyethylene, per ASTM D2737, Pressure Class 160, iron pipe size (IPS) outside diameter, DR 11, Performance Pipe DriscoPlex 4100 or an approved equal, meeting the requirements of ASTM D 3035 and AWWA C901. Plan sheet and bid item descriptions are modified accordingly.
8. Plan Sheets P-03 and P-04: The size of the proposed waterline along Baseline C between Sta. 16+50 and Stat 14+85 is 8". An 8" x 6" reducer is added to the Plans for connection to the proposed 6" waterline along Baseline F, Plan Sheet P-04.

9. Plan Sheet T-01: The existing waterline shown in Detail 6 is 8" PVC.
10. Plan Sheet T-01: The material of the existing 6" waterline shown in Detail 3 is unknown.
11. Plan Note 30, in conjunction with Specification Section 02590, 1.06, provides the right of entry requirements. It is the contractor's responsibility to obtain access, in writing, to the private properties from the individual property owners and to document the work performed on the private property.
12. Section 02590 and Bid Item 20 provides permit information and costs for the plumbing related items. Section 02590 states a maximum of 10 adjacent lots may be on one permit.
13. Question: Clarify Bid Item 4, Asphalt Friction Course. Is the intent to use this item as the asphalt trench patch? If so, should a structural type asphalt be utilized? What thickness is this asphalt to be? Does this item include the road base material?

Response: Bid Item 4 is intended for the asphalt trench patch. Yes, a structural type asphalt should be utilized. Match the existing thickness or minimum of 1-1/2", whichever is greater. The intent of the Item is to include the road base material and primer.

14. Question: Clarify Bid Item 4. Will asphalt milling be required? If so, how thick is the milling to be?

Response: Asphalt milling is required at the interface with the existing asphalt. Milling shall be 1/2 inch thick or what is needed to match the existing asphalts. See Plan Sheet T-03, Detail UG-12.

15. Question: I'm looking for the geotechnical information for Phase 2 as referenced in the description for Bid Item No. 41 Rock Removal.

Response: The geotechnical information is attached.

16. Question: There is no pay item for the 8x6 wet tap on Sheet P-06.

Response: The existing waterline shown on Plan Sheet P-06 is 10" so the wet tap size is 10" x 6". Payment for the wet tap shall be under Bid Item 39, Connections to Existing 10" Water Main.

17. Question: Specs state 3" hdpe to be SDR11 ips , bid form states 3" DR9 cts – 3" SDR9 cts is n/a – SDR11 will be required –please advise.

Response: The 3" PE shown on Plan Sheet P-01 shall be high-density PE 3408 polyethylene, per ASTM D2737, Pressure Class 160, iron pipe size (IPS) outside diameter, DR 11, Performance Pipe DriscoPlex 4100 or an approved equal, meeting the requirements of ASTM D 3035 and AWWA C901. The plans and bid item descriptions are modified accordingly.

January 19, 2017

18. Question: Will Manatee County require ss rods on the bell restraints?

Response: Stainless steel rods are not required.

19. Question: Are casing spacers required on the 8" sdr11 hdpe inside the 14" sdr21?

Response: Casing spacers are not required.

20. Question: Is a plumber required to install the expansion tanks & check valves on the private side of the meter?

Response: Yes a licensed plumber is required as specified in Section 02590.

21. Question: Would Manatee County consider accepting Pipe Bursting as an alternative to Bid Items #27. 6" DR18 C-900 PVC and 28". 6" CL-350 DIP MJ/RJ.

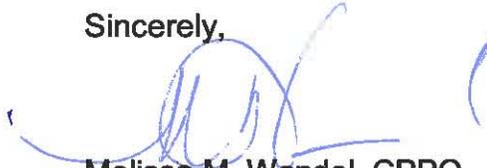
Response: Pipe bursting would not be an acceptable alternative as it would be a major design change and the existing piping depths may not be conducive to pipe bursting.

22. Specification 01150 Measurement and Payment and Bid Form items 20, 24, and 30 have been revised per the attached. Electronic Bid Form is available on DemandStar and the www.mymanatee.org Bids & Proposals site.

If you have submitted a bid prior to receiving this addendum you may request in writing that your original, sealed bid be returned to your firm. All sealed bids received will be opened on the date stated.

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 until **February 17, 2017 at 3:00 P.M.**

Sincerely,


Melissa M. Wendel, CPPO
Purchasing Official

4/23/17

/dcr

Attachments: Information Conference Sign-in Sheet
Revised Section 01150, Addendum 2
Revised Bid Form, Addendum 2 (Electronic copy also available)
Geotechnical Boring Information from Driggers Engineering
Plans (Link reference for download)

INFORMATION CONFERENCE: INVITATION FOR BID
IFB #16-2884DC PIC TOWN ESTATES POTABLE WATER
DATE: January 13, 2017 TIME: 10:00 AM @ Purchasing

TELEPHONE/ EMAIL	NAME (PLEASE PRINT)	COMPANY NAME
941-708-7450 x 7236 jennifer.fehrs@mymanatee.org	Jennifer Fehrs	Manatee County
708.7450 x 7335	Jeff Streitmayer	Manatee County
941-723-1611 jack@westraconst.com debbie@westraconst.com	Jack Morsink	Westra Construction
941-723-1611 ALFORD@WESTRACONST.COM	CHRIS ALFORD	WESTRA CONSTRUCTION
863 701 0273 Tony @ Killebrew Inc. net	Tony Stansbury	Killebrew FAL.
cwest@pospiechcontracting.com (352) 422-8063	Garrett McKinney	Pospiech contracting, Inc
941-757-0080 dlover@russellengineering.com	David Hochstetler	RUSSELL ENGINEERING
dmitton@carollo.com 941-371-9832	DEAN MILTON	CAROLLO ENGINEERS
941-342-6708 BCERNIGA @ SPECTRUMUNDERGROUND.COM	BRUCE CERNIGA	SPECTRUM UNDERGROUND, INC
941 749 3074 Deborah Carey-Reed deborah.carey-reed@mymanatee.org	DEBORAH CAREY-REED	MANATEE COUNTY PURCHASING

SECTION 01150**MEASUREMENT AND PAYMENT****PART 1 GENERAL****1.01 SCOPE**

- A. The scope of this section of the Contract Documents is to further define the items included in each Quote Item in the Quote Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each Quote item.
- B. All contract prices included in the Quote Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item Quote on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Quote Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.

1.02 ESTIMATED QUANTITIES

- A. The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The Owner/Engineer does not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

1.03 WORK OUTSIDE AUTHORIZED LIMITS

- A. No payment will be made for work constructed outside the authorized limits of work.

1.04 MEASUREMENT STANDARDS

- A. Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

1.05 AREA MEASUREMENTS

- A. In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

1.06 LUMP SUM ITEMS

- A. Where payment for items is shown to be paid for on a lump sum basis, no separate

payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

1.07 UNIT PRICE ITEM

- A. Separate payment will be made for the items of work described herein and listed on the Quote Form. Any related work not specifically listed, but required for satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the Owner until as-built (record) drawings have been submitted and approved by the Engineer.

1. Shop Drawings, Working Drawings.
2. Clearing, grubbing, and grading except as hereinafter specified.
3. Erosion control.
4. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
5. Dewatering and disposal of surplus water.
6. Structural fill, backfill, and grading.
7. Replacement of unpaved roadways, and shrubbery plots.
8. Cleanup and miscellaneous work.
9. Foundation and borrow materials, except as hereinafter specified.
10. Testing and placing system in operation.
11. Any material and equipment required to be installed and utilized for the tests.
12. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
13. Maintaining the existing quality of service during construction.
14. Appurtenant work as required for a complete and operable system.
15. Seeding and hydromulching.
16. As-built Record Drawings.

BID ITEM NO. 1: MOBILIZATION/DEMOBILIZATION

Measurement and payment for this Bid Item shall include full compensation for the required 100 percent (100%) Performance Bond, 100 Percent (100%) Payment Bond, all required insurance and permits for the project and the Contractor's mobilization and demobilization costs as shown in the Bid Form. Mobilization shall be the preparatory work and operation mobilizing for beginning of work on the project; including, but not limited to, those operation necessary for the movement of personnel, equipment, supplies an incidentals to the project site, and for the establishment of temporary offices, storage buildings, safety equipment, first aid supplies, sanitary and other facilities, as required by the Contract and all applicable laws and regulations. Demobilization shall be the work for removing temporary facilities from the project site and all work required to obtain approval of all as-built record drawings by the Engineer

Payment for the mobilization/demobilization Quote Item shall not exceed five percent (5%) of the total Contract amount unless the Contractor can prove to the Owner that his actual mobilization costs exceed five percent (5%). Partial payments for Bid Item will be made in accordance with the following schedule:

Percent of Original Contract Amount	Percent Allowable Payment of Mobilization/Demobilization Bid Item Price
5	25
10	35
25	45
50	50
75	75
100	100

These payments will be subject to the standard retainage provided in the Contract. Payment of the retainage will be made after completion of the work and demobilization.

BID ITEM NO. 2: TRAFFIC CONTROL

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to perform all the work as shown on the Contract Drawings and specified herein and any other miscellaneous work not specifically included for payment under other Bid Items obviously necessary to complete the Contract. Partial payments will be based on the breakdown of the Bid Item in accordance with the Schedule of Values submitted by the Contractor and approved by the Engineer. Payment shall also include full compensation for traffic control and related items and any and all other items required to complete the project in accordance with Contract Documents.

BID ITEM NO. 3: EROSION CONTROL

Payment for all work included in this Bid Item will be made at the applicable Contract Lump sum price bid for furnishing and installing erosion control facilities as require by county and state regulations and as shown on the Contract Drawings. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 4: ASPHALTIC CONCRETE FRICTION COURSE

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square foot of asphaltic concrete friction course for furnishing, installing and testing the road restoration pavement section within these Specifications and as listed on the Bid Form. Measurement will be based on the actual number of square feet of asphaltic concrete friction course installed, tested, complete, and approved. The measurement will be from saw cut joint to saw cut joint of existing asphalt as shown on the Contract Drawings, but not greater than the 18" from the outside edge of piping trench. Payment will include complete restoration of the asphaltic concrete friction course in accordance with the applicable details on the Contract Drawings, but not less than the asphaltic concrete friction course, in accordance with these Specifications. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Payment shall include all items and incidentals necessary to complete the asphaltic concrete friction restoration in accordance with the requirements of Manatee County, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 5: ASPHALTIC CONCRETE OVERLAY

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square foot of asphaltic concrete overlay for furnishing, installing and testing the restoration section within these Specifications and as listed on the Bid Form. Measurement will be based on the actual number of square feet of asphaltic concrete overlay restoration installed, tested, complete and approved. The measurement will be from face of curb to face of curb or as specified, but not greater than the width of the existing roadway prior to construction. Payment

will include complete restoration of 1-1/2 inches of FDOT Type III asphaltic concrete in accordance with the applicable details on the Contract Drawings and these Specifications. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Payment shall include all items and incidentals necessary to complete the asphaltic concrete overlay restoration in accordance with the requirements of Manatee County, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 6: CONCRETE DRIVEWAY REPLACEMENT

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square foot of concrete driveway restoration as listed on the Bid Form. Measurement of driveway restoration will be per the actual number of square feet replaced. Payment shall represent full compensation for all labor, materials, and equipment for cutting the edges of existing driveways, compacting subgrade, furnishing and installing the concrete and all incidentals necessary to complete the driveway restoration as shown on the Contract Drawings and included in the Specifications, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 7: ASPHALT DRIVEWAY REPLACEMENT

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square foot of asphaltic concrete restoration as listed on the Bid Form. Measurement of driveway restoration will be per the actual number of square feet replaced. Payment shall represent full compensation for all labor, materials and equipment for cutting the edges of existing driveways, compacting subgrade, furnishing and installing the asphaltic concrete and all incidentals necessary to complete the driveway restoration as shown on the Contract Drawings and included in the Specifications, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 8: CONCRETE CURB REPLACEMENT

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per linear foot of removal and replacement of existing concrete curb as shown on the drawings or as directed by the Project Representative. Measurement will be per actual number of linear feet of curb installed. Payment shall represent full compensation for removal and replacement of existing curb, all labor, material and equipment for compacting subgrade, forming, finishing, placing the concrete and finishing as specified and all incidentals necessary to complete the concrete curb replacement as shown on the Contract Drawings and included in the Specifications, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 9: SODDING

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square foot for furnishing and installing sodding as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 10: SINGLE PE (1") SERVICE CONNECTION (SHORT SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for each service type for furnishing and installing the listed single PE 1" water service lines, short side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation, bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service

customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The new water meter and meter box will be supplied by the Owner.

BID ITEM NO. 11: DOUBLE PE (1") SERVICE CONNECTION (SHORT SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for each service type for furnishing and installing the listed double PE 1" water service lines, short side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation , bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 12: MULTIPLE PE (2") SERVICE CONNECTION (SHORT SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed triple PE 2" water service lines, short side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation , bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 13: SINGLE COPPER (1") SERVICE CONNECTION (SHORT SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for each service type for furnishing and installing the listed copper 1" single water service lines, short side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation , bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 14: DOUBLE COPPER (1") SERVICE CONNECTION (SHORT SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for each service type for furnishing and installing the listed copper 1" double water service lines, short side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation , bedding, backfill,

compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 15: SINGLE PE (1") SERVICE CONNECTION (LONG SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed single PE 1" water service lines, long side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation, bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 16: DOUBLE PE (1") SERVICE CONNECTION (LONG SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed double PE 1" water service lines, long side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation, bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. The Contractor will remove the existing water meter and provide to the Owner. The water meter and meter box will be supplied by the Owner.

BID ITEM NO. 17: SINGLE COPPER (1") SERVICE CONNECTION (LONG SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed copper 1" single water service lines, long side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation, bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 18: DOUBLE COPPER (1") SERVICE CONNECTION (LONG SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed copper 1" double water service lines, long side, as

shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation, bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 19: DOUBLE COPPER (2") SERVICE CONNECTION (LONG SIDE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid for furnishing and installing the listed copper 2" double water service lines, long side, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material service piping, excavation (including rock), bedding, backfill, compaction, directional drilling, restoration, compaction, casing pipe, removal and disposal of existing meter box, meter box installation, tapping saddles, corporation stops, curb stops, curb or pavement location disks, 10 gauge copper clad steel tracer wire, complete meter assembly & yoke, all necessary fittings, all service connections, disinfection, coordination with service customers, and all other related and necessary materials, work and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 20A: PRIVATE WATER SERVICES RELOCATION/CONNECTION-COMLETE LONG

Measurement and payment for this item shall be at the applicable Contract unit price bid per service line connection. This item will cover water services that require relocation greater than 5 linear feet. The Contractor shall coordinate with each private property owner all aspects of routing the water service on the private property to the front roadway right-of-way and connecting to the water service meter. The Contractor shall be responsible for meeting with the each individual private property owner to coordinate the routing of the water service line on private property prior to commencement of any work. The Contractor shall document the agreed upon route on a sketch signed and dated by all parties. The connection point to the existing water service line shall be assumed to be adjacent to the foundation at the entry point into the residence. This Bid Item includes abandoning in place the existing water service line in accordance with the Florida Building Code – Building and Plumbing.

Manatee County Building Permits, for \$75 each, will be required for all private properties. This item includes all permits, material, labor, equipment, excavation, restoration, certification and inspection fees, temporary measures, and taxes necessary to connect the water service line to the water service meter (at the roadway right-of-way) in a manner conforming to all pertinent sections of the Florida Building Code - Building and Plumbing and the Manatee County Building Department. The bidder shall include in their proposed unit price to provide and install 150 linear feet of new private water service line for relocations. The contractor shall disconnect the existing water service located on the private property and relocate it to the new meter box (provided by the contractor), and connect the water service meter to the service connection from the water main. This activity shall be coordinated with the private property owner to ensure minimum interruption of potable water service. *(Modified for Addendum 2)*

BID ITEM NO. 20B: PRIVATE WATER SERVICES RELOCATION/CONNECTION-COMLETE SHORT

Measurement and payment for this item shall be at the applicable Contract unit price bid per service line connection. This item will cover water services that require relocation equal to or less than 5 linear feet. The Contractor shall coordinate with each private property owner all aspects of routing the water service on the private property to the front roadway right-of-way

and connecting to the water service meter. The Contractor shall be responsible for meeting with the each individual private property owner to coordinate the routing of the water service line on private property prior to commencement of any work. The Contractor shall document the agreed upon route on a sketch signed and dated by all parties. The connection point to the existing water service line shall be assumed to be adjacent to the foundation at the entry point into the residence. This Bid Item includes abandoning in place the existing water service line in accordance with the Florida Building Code – Building and Plumbing.

Manatee County Building Permits, for \$75 each, will be required for all private properties. This item includes all permits, material, labor, equipment, excavation, restoration, certification and inspection fees, temporary measures, and taxes necessary to connect the water service line to the water service meter (at the roadway right-of-way) in a manner conforming to all pertinent sections of the Florida Building Code - Building and Plumbing and the Manatee County Building Department. The bidder shall include in their proposed unit price to provide and install 5 linear feet of new private water service line for relocations. The contractor shall disconnect the existing water service located on the private property and relocate it to the new meter box (provided by the contractor), and connect the water service meter to the service connection from the water main. This activity shall be coordinated with the private property owner to ensure minimum interruption of potable water service. *(Modified for Addendum 2)*

BID ITEM NO. 21: BACKFLOW PREVENTER WITH EXPANSION TANKS AND VACUUM BREAKERS

It is expected that some service lines connections shall require installation of a backflow preventer assembly per Manatee County Utility Standards UW-12 and UW-13 at the service meter, a thermal expansion tank for each residence hot water heater, and vacuum breaker at each outside hose bib. All work performed on private property must be performed by an appropriately licensed plumbing contractor per the Florida Building Code – Building and Plumbing and the Manatee County Building Department. After the backflow assembly is installed, tested, and inspected, the contractor shall be responsible to register it using the Manatee County Utility Department on-line registration system.

This Bid Item includes the construction of all backflow preventers of the specified type, expansion tanks, and vacuum breakers, acceptably furnished and installed at the locations required by the Florida Plumbing Code or where directed by the Project Representative. Measurement will be based on each complete backflow preventer installed as shown on the drawings. Payment for all work under this Bid Item shall be made at the applicable Contract unit price Bid according to the number of backflow preventers. The work shall include, but is not limited to, backflow preventer, expansion tank, vacuum breakers, ball valves, concrete slabs, test cocks and sleeves, all necessary fittings, all service connections, disinfection and all other related and necessary materials, work and equipment associated with this item.

BID ITEM NO. 22: 6" GATE VALVE AND BOX

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each valve for furnishing and installing the listed diameter valve, box, cover tracer wire and box, and concrete pad as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, excavation, bedding, backfill, compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 23: 8" GATE VALVE AND BOX

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each valve for furnishing and installing the listed diameter valve, box, cover tracer wire and box, and concrete pad as shown on the Contract Drawings and listed on the Bid Form.

Payment shall represent full compensation for all labor, material, excavation, bedding, backfill, compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 24: 2-INCH DR-9 AND 3-INCH DR-11 HDPE (DIRECTIONAL DRILL)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per linear foot for furnishing and installing the listed diameter and class of HDPE waterline pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 2-inch or 3-inch diameter pipe installed and will represent full compensation for all directional drilling, labor, materials, tapping sleeve and valve, all non-DI fittings unless specifically included in other Bid items, 10 gage copper clad steel wire, detectable tape, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, backfill compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any settlement. *(Modified for Addendum 2)*

BID ITEM NO. 25: 4-INCH DR18 C-900 PVC (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 4-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, removal and disposal of existing A/C piping, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 26: 4-INCH CL 350 DIP MJ/RJ (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter DIP water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 4-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing asphalt pavement base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 27: 6-INCH DR18 C-900 PVC (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 6-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, removal and disposal of existing A/C piping, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 28: 6-INCH CL 350 DIP MJ/RJ (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter DIP water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 6-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, removal and disposal of existing A/C piping, bedding, backfill (select and common fill), replacement of existing asphalt pavement base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 29: 6-INCH PVC IN 14-INCH STEEL PIPE CASING (JACK AND BORE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per linear foot for furnishing and installing the listed diameter and class of PVC waterline pipe, casing pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 6-inch diameter pipe installed and will represent full compensation for all jack and bore , labor, materials, all non-DI fittings unless specifically included in other Bid items, 10 gage copper clad steel wire, detectable tape, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, backfill compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any settlement.

BID ITEM NO. 30: 8-INCH DR-11 HDPE IN 14-INCH HDPE CARRIER PIPE (DIRECTIONAL DRILL)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per linear foot for furnishing and installing the listed diameter and class of HDPE waterline pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 8-inch diameter pipe installed and will represent full compensation for all directional drilling, labor, materials, installation/pulling of 8-inch pipe through the carrier pipe, carrier pipe end seal, all non-DI fittings unless specifically included in other Bid items, 10 gage copper clad steel wire, detectable tape, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, backfill compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any settlement (*Modified for Addendum 2*)

BID ITEM NO. 31: 8-INCH DR18 C-900 PVC (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 8-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, removal and disposal of existing A/C piping bedding, backfill (select and common fill), replacement of existing pavement and driveway base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 32: 8-INCH CL 350 DIP MJ/RJ (OPEN-CUT)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price Bid per the schedule of prices for furnishing and installing the listed diameter DI water main pipe and fittings as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the 8-inch diameter pipe installed and will represent full compensation for all labor, materials, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing asphalt pavement base, compaction, testing and disinfection and equipment required to complete these Bid Items. No additional compensation will be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill materials, or for repair of any trench settlement.

BID ITEM NO. 33: TEMPORARY JUMPER CONNECTION

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each temporary jumper connection for furnishing and installing each connection including tie-in valve, water main, service saddle and corporation stop, reduced pressure backflow preventer, flow meter, excavation, dewatering, bedding, backfill (select and common fill), replacement of existing pavement and driveway base, backfill compaction, testing and disinfection and equipment required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 34 PIPE ADAPTERS (HDPE TO PVC OR DI)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each pipe adapter for furnishing and installing each adapter, including but not limited to nuts, bolts, hardware, stainless steel insert, gland, gasket, and other related items as shown on the Contract Drawings. Payment shall represent full compensation for all labor, material, equipment, excavation, bedding, backfill, compaction, testing, and disinfection required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 35: FIRE HYDRANT ASSEMBLY

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price Bid per each hydrant assembly, including hydrant lead, tee, gate valve, box cover, concrete pads, restraining rods and/or thrust blocks, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, equipment, excavation, bedding, backfill, compaction, testing, and disinfection required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 36: RELOCATE EXISTING FIRE HYDRANT ASSEMBLY

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each hydrant assembly relocated, including hydrant lead, tee, gate valve, box cover, concrete pads, restraining rods and/or thrust blocks, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, equipment, excavation, bedding, backfill, compaction, testing, and disinfection required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 37: BLOWOFF ASSEMBLY

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each blowoff assembly, including tapped cap, gate valve, 2" HDPE tubing, meter box and lid, concrete pads, and tracer test box as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, equipment, excavation, bedding, backfill, compaction, testing, and disinfection required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 38: 1" AIR RELEASE VALVE ASSEMBLY

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each air release valve assembly, including air release valve, saddle, corporation stop, fiberglass enclosure, concrete pad, copper piping, and tracer wire test box, as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, equipment, excavation, including rock, bedding, backfill, compaction, testing, and disinfection required to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 39: CONNECTIONS TO EXISTING 10-INCH WATER MAIN

Payment for all work included in this Bid Item will be made at the applicable Contract unit price bid per each connection to existing water main as specified, acceptably furnished and installed as shown on the Contract Drawings or where directed by the Project Representative. Measurement will be based on each complete connection made and accepted. The work for this item includes but is not limited to removal of existing fittings and pipe as required, tapping sleeve and valve, furnish and install all fittings, bolts, gaskets, thrust blocking, pipe restraints, excavation, including rock as necessary, bedding, backfill (select and common fill), compaction, couplings, plugs, caps, adapters, and materials except where specifically included in other pay items. Payment shall represent full compensation for all labor, materials, equipment, testing, and disinfection necessary to complete this Bid Item, all ready for approval and acceptance by the Engineer/Owner. *(Modified for Addendum 2)*

BID ITEM NO. 40: ADDITIONAL DUCTILE IRON FITTINGS, WATER

Payment for all work included in these Bid Items will be made at the applicable Contract unit bid per pound for furnishing and installing additional ductile iron fittings (cement-lined) as as directed by the Project Representative. This pay item includes but is not limited to tees, wyes, crosses, bends, sleeves, plugs, caps, and reducers. Measurement shall be by the pound. Payment shall represent full compensation for all labor, material, equipment, excavation, including bedding, backfill, compaction, testing, bolts, gaskets, restraints, nuts, washers and disinfection required to complete these Bid Items.

BID ITEM NO. 41: ROCK REMOVAL

It is possible that some rock removal may be necessary for installation of buried utilities include in the Project based on experiences from a previous project, (Pic Town Waterline Replacement - Phase II) in the adjacent area and limited geotechnical borings. The geotechnical report is included for reference in these Contract Documents.

Payment for all work included under this Bid Item will be made at the Contract unit price bid per actual cubic yard of rock, measured in its original position and computed by the average end area method, which has been excavated removed and disposed of. Measurements of the determination of actual quantities of rock excavated shall be confined to 1 foot on either side of the trench excavation and 6-inches below the bottom of the trench. There will be no measurement of quantities of rock excavated beyond these limits. The work for this item includes but is not limited to drilling, pneumatic hammering, excavation, and disposing of rock, backfilling and common fill for any deficiency in quantity due to excavation of rock. Removal of rock by blasting or other similar methods is not allowed. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, all ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 42: GROUT FILL AND ABANDON PIPE

Payment for all work included in the Bid Item will be made at the applicable Contract unit price bid per cubic foot of grout for grouting existing potable waterlines to be abandoned with cement

as shown on the Contract Drawings. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, all ready for approval and acceptance by the Engineer/Owner.

QUOTE ITEM 43: MISCELLANEOUS WORK AND CLEANUP

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to perform all the work as shown on the Contract Drawings and specified herein and any other miscellaneous work not specifically included for payment under other Bid items obviously necessary to complete the Contract. Partial payments will be based on the breakdown of the Bid Item in accordance with the Schedule of Values submitted by the Contractor and approved by the Engineer. Payment shall also include full compensation for project photographs, as-built record drawings, project signs, rubbish and spoil removal, repair, replacement or relocation of all signs, walls, private irrigation systems and related items and any and all other items required to complete the project in accordance with the Contract Documents.

BID ITEM NO. 44: CONTRACT CONTINGENCY

Payment for all work under this Bid Item shall be made only at the Owner's. This Bid Item shall not exceed 10% of the Bidders Total Base Bid. The Bidder shall calculate and enter a dollar amount for this Bid Item.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

(Submit In Triplicate)

PIC TOWN ESTATES POTABLE WATER - PHASE 1

BID "A" COMPLETION TIME OF 220 CALENDAR DAYS

	DESCRIPTION	TOTAL QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
1.	Mobilization / Demobilization	1	LS	\$ -	\$ -
2.	Traffic Control	1	LS	\$ -	\$ -
3.	Erosion Control	1	LS	\$ -	\$ -
4.	Asphalt Concrete Friction Course	22,000	SF	\$ -	\$ -
5.	Asphalt Concrete Overlay	98,000	SF	\$ -	\$ -
6.	Concrete Driveway Replacement	1,400	SF	\$ -	\$ -
7.	Asphalt Driveway Replacement	60	SF	\$ -	\$ -
8.	Concrete Curb Replacement	280	LF	\$ -	\$ -
9.	Sodding	13,200	SF	\$ -	\$ -
10.	Single PE 1" Service Connection - Short Side	5	EA	\$ -	\$ -
11.	Double PE 1" Service Connection - Short Side	5	EA	\$ -	\$ -
12.	Multiple PE 2" Service Connection - Short	1	EA	\$ -	\$ -
13.	Single Copper 1" Service Connection - Short Side	2	EA	\$ -	\$ -
14.	Double Copper 1" Service Connection - Short Side	7	EA	\$ -	\$ -
15.	Single PE 1" Service Connection - Long Side	6	EA	\$ -	\$ -
16.	Double PE 1" Service Connection - Long Side	4	EA	\$ -	\$ -
17.	Single Copper 1" Service Connection - Long Side	7	EA	\$ -	\$ -
18.	Double Copper 1" Service Connection - Long Side	10	EA	\$ -	\$ -
19.	Double Copper 2" Service Connection - Long Side	1	EA	\$ -	\$ -
20A.	Private Water Service Relocation/Connection, Complete-Long	27	EA	\$ -	\$ -
20B.	Private Water Service Relocation/Connection, Complete-Short	30	EA	\$ -	\$ -
21.	BF Preventer with Expansion Tank and Vacuum Breakers	16	EA	\$ -	\$ -
22.	6" DIMJ Gate Valve and Box	16	EA	\$ -	\$ -
23.	8" DIMJ Gate Valve and Box	8	EA	\$ -	\$ -
24.	2" PE, DR 9 and 3" HDPE, DR11 - Directional Drill	330	LF	\$ -	\$ -
25.	4" DR18 C-900 PVC	80	LF	\$ -	\$ -

Bidder: _____

Signature: _____

(Submit In Triplicate)

PIC TOWN ESTATES POTABLE WATER - PHASE 1

BID "A" COMPLETION TIME OF 220 CALENDAR DAYS

	DESCRIPTION	TOTAL QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
26.	4" CL-350 DIP MJ/RJ	220	LF	\$ -	\$ -
27.	6" DR18 C-900 PVC	1,200	LF	\$ -	\$ -
28.	6" CL-350 DIP MJ/RJ	1,800	LF	\$ -	\$ -
29.	6" PVC in 14" Steel Pipe Casing - Jack and Bore	120	LF	\$ -	\$ -
30.	8" HDPE, DR11 in 14" HDPE, DR21 Carrier Pipe - Directional Drill	160	LF	\$ -	\$ -
31.	8" DR18 C-900 PVC	600	LF	\$ -	\$ -
32.	8" CL-350 DIP MJ/RJ	750	LF	\$ -	\$ -
33.	Temporary Jumper Connections	8	EA	\$ -	\$ -
34.	Pipe Adapters - HDPE to MJ	2	EA	\$ -	\$ -
35.	Fire Hydrant Assembly	4	EA	\$ -	\$ -
36.	Relocate Fire Hydrant Assembly	1	EA	\$ -	\$ -
37.	Blow-Off Assembly	3	EA	\$ -	\$ -
38.	Air Release Valve Assembly	2	EA	\$ -	\$ -
39.	Connections to Existing 10" Water Main	1	EA	\$ -	\$ -
40.	Additional Ductile Iron Fittings, Water	1,000	LB	\$ -	\$ -
41.	Rock Removal	200	CY	\$ -	\$ -
42.	Grout Fill and Abandon Pipe	2,100	CF	\$ -	\$ -
43.	Miscellaneous Work & Clean Up	1	LS	\$ -	\$ -
	BASE BID (ITEMS 1 - 43)				\$ -
44.	Contingency	10% of Base Bid			\$ -
	BID "A" TOTAL BID PRICE (ITEMS 1 - 44)				\$ -

Bidder: _____

Signature: _____

BID FORM
(Submit In Triplicate)
PIC TOWN ESTATES POTABLE WATER - PHASE 1

BID "B" COMPLETION TIME OF 190 CALENDAR DAYS

	DESCRIPTION	TOTAL QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
1.	Mobilization / Demobilization	1	LS	\$ -	\$ -
2.	Traffic Control	1	LS	\$ -	\$ -
3.	Erosion Control	1	LS	\$ -	\$ -
4.	Asphalt Concrete Friction Course	22,000	SF	\$ -	\$ -
5.	Asphalt Concrete Overlay	98,000	SF	\$ -	\$ -
6.	Concrete Driveway Replacement	1,400	SF	\$ -	\$ -
7.	Asphalt Driveway Replacement	60	SF	\$ -	\$ -
8.	Concrete Curb Replacement	280	LF	\$ -	\$ -
9.	Sodding	13,200	SF	\$ -	\$ -
10.	Single PE 1" Service Connection - Short Side	5	EA	\$ -	\$ -
11.	Double PE 1" Service Connection - Short Side	5	EA	\$ -	\$ -
12.	Multiple PE 2" Service Connection - Short	1	EA	\$ -	\$ -
13.	Single Copper 1" Service Connection - Short Side	2	EA	\$ -	\$ -
14.	Double Copper 1" Service Connection - Short Side	7	EA	\$ -	\$ -
15.	Single PE 1" Service Connection - Long Side	6	EA	\$ -	\$ -
16.	Double PE 1" Service Connection - Long Side	4	EA	\$ -	\$ -
17.	Single Copper 1" Service Connection - Long Side	7	EA	\$ -	\$ -
18.	Double Copper 1" Service Connection - Long Side	10	EA	\$ -	\$ -
19.	Double Copper 2" Service Connection - Long Side	1	EA	\$ -	\$ -
20A.	Private Water Service Relocation/Connection, Complete-Long	27	EA	\$ -	\$ -
20B.	Private Water Service Relocation/Connection, Complete-Short	30	EA	\$ -	\$ -
21.	BF Preventer with Expansion Tank and Vacuum Breakers	16	EA	\$ -	\$ -
22.	6" DIMJ Gate Valve and Box	16	EA	\$ -	\$ -
23.	8" DIMJ Gate Valve and Box	8	EA	\$ -	\$ -
24.	2" PE, DR 9 and 3" HDPE, DR11 - Directional Drill	330	LF	\$ -	\$ -
25.	4" DR18 C-900 PVC	80	LF	\$ -	\$ -

Bidder: _____

Signature: _____

(Submit In Triplicate)

PIC TOWN ESTATES POTABLE WATER - PHASE 1

BID "B" COMPLETION TIME OF 190 CALENDAR DAYS

	DESCRIPTION	TOTAL QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
26.	4" CL-350 DIP MJ/RJ	220	LF	\$ -	\$ -
27.	6" DR18 C-900 PVC	1,200	LF	\$ -	\$ -
28.	6" CL-350 DIP MJ/RJ	1,800	LF	\$ -	\$ -
29.	6" PVC in 14" Steel Pipe Casing - Jack and Bore	120	LF	\$ -	\$ -
30.	8" HDPE, DR11 in 14" HDPE, DR21 Carrier Pipe - Directional Drill	160	LF	\$ -	\$ -
31.	8" DR18 C-900 PVC	600	LF	\$ -	\$ -
32.	8" CL-350 DIP MJ/RJ	750	LF	\$ -	\$ -
33.	Temporary Jumper Connections	8	EA	\$ -	\$ -
34.	Pipe Adapters - HDPE to MJ	2	EA	\$ -	\$ -
35.	Fire Hydrant Assembly	4	EA	\$ -	\$ -
36.	Relocate Fire Hydrant Assembly	1	EA	\$ -	\$ -
37.	Blow-Off Assembly	3	EA	\$ -	\$ -
38.	Air Release Valve Assembly	2	EA	\$ -	\$ -
39.	Connections to Existing 10" Water Main	1	EA	\$ -	\$ -
40.	Additional Ductile Iron Fittings, Water	1,000	LB	\$ -	\$ -
41.	Rock Removal	200	CY	\$ -	\$ -
42.	Grout Fill and Abandon Pipe	2,100	CF	\$ -	\$ -
43.	Miscellaneous Work & Clean Up	1	LS	\$ -	\$ -
	BASE BID (ITEMS 1 - 43)				\$ -
44.	Contingency	10% of Base Bid			\$ -
	BID "B" TOTAL BID PRICE (ITEMS 1 - 44)				\$ -

Bidder: _____

Signature: _____

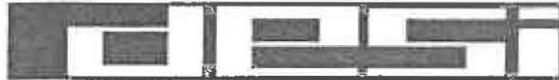


DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO. B-1**
 Project Pic Town Phase I Soil Borings, Manatee County, Florida
 Location See Plate I Foreman _____ M.B. _____
 Completion Depth 13.5' Date 11/30/11 Depth To Water _____ Time _____ Date _____

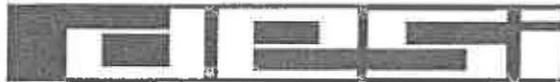
DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
0			SURF. EL: 2-1/2" Asphalt Pavement 3-3/4" Limerock Base						
2.5			Dark gray Fine SAND (SP) Brown silty Fine SAND (SM) Cream colored LIMESTONE	50*	* 0.1' Penetration				
5			Medium dense light gray Fine SAND with shell (SP)	6/9/15					
7.5			Medium dense grayish-brown Fine SAND with shell fragments (SP)	5/7/8					
10			Medium dense gray Fine SAND with abundant shell (SP)	4/8/12					
11.0			Medium dense light brown Fine SAND with shell (SP)	3/6/5					
11.0			- 100% loss of circulation at depth 11.0' Cream colored LIMESTONE						
12.5			Medium dense light gray Fine SAND with trace of shell fragments (SP)	7/10/13					
15									

Remarks Borehole Grouted Casing Length _____



DRIGGERS ENGINEERING SERVICES INCORPORATED

HAND AUGER BORING/HAND CONE SOUNDING LOG														
PROJECT: Pic Town Phase I Soil Borings Manatee County, Florida Project No.: DES 116863					CLIENT: Manatee County									
TECHNICIAN: M.B./S.F.					WATER TABLE: 4.1'			DATE: 11/30/11						
LOCATION: See Plate I					DATE: 11/30/11			COMPLETION DEPTH: 6.0'						
TEST NUMBER: B-2														
ELEV. (FT)	DESCRIPTION	DEPTH (FT)	SYMBOL	HAND CONE TIP RESISTANCE (TSF)										
				0	10	20	30	40	50	60	70			
	2-1/2" Asphalt Pavement	0												
	8-1/2" Limerock Base													
	Brown Fine SAND (SP)	1												
		2												
	Brown Fine SAND with gravel (SP)	3												
	Dark gray and brown Fine SAND with shell (SP)	4												
		5												
	Dark brown Fine SAND (SP)	6												
		7												
	LEGEND: ◉† Denotes Penetration Resistance in excess of 50 TSF													

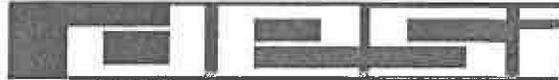


DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO. B-2**
 Project Pic Town Phase I Soil Borings, Manatee County, Florida
 Location See Plate I Foreman _____ M.B. _____
 Completion Depth 13.5' Date 11/30/11 Depth To Water 4.1' Time _____ Date 11/30/11

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
SURF. EL:									
0			2-1/2" Asphalt Pavement						
			8-1/2" Limerock Base						
			Brown Fine SAND (SP)						
2.5			Brown Fine SAND with gravel (SP)						
			Dark gray and brown Fine SAND with shell (SP)						
5			Dark brown Fine SAND (SP)						
			Very loose grayish-brown slightly silty Fine SAND with shell (SP-SM)	WH/1/2					
7.5									
			Very loose tan Fine SAND with shell, limestone and asphalt fragments (SP)	2/2/1					
10									
			Very loose grayish-brown Fine SAND (SP)	1/0/0					
12.5									
				1/0/1					
15									

Remarks Borehole Grouted
 WH = Weight of Hammer _____ Casing Length _____



DRIGGERS ENGINEERING SERVICES INCORPORATED

HAND AUGER BORING/HAND CONE SOUNDING LOG

PROJECT: Pic Town Phase I Soil Borings Manatee County, Florida Project No.: DES 116863		CLIENT: Manatee County	
TECHNICIAN: M.B./S.F.		WATER TABLE: 5.1'	DATE: 11/30/11
LOCATION: See Plate I		DATE: 11/30/11	COMPLETION DEPTH: 6.0'
		TEST NUMBER: B-3	

ELEV. (FT)	DESCRIPTION	DEPTH (FT)	SYMBOL	HAND CONE TIP RESISTANCE (TSF)									
				0	10	20	30	40	50	60	70		
	2" Asphalt Pavement	0	[Symbol]										
	5" Shell Base		[Symbol]										
	Brown Fine SAND with abundant shell (SP)		[Symbol]										
	Dark brown silty Fine SAND with shell (SM)	1	[Symbol]										
	Brown and light brown Fine SAND (SP)		[Symbol]										
		2	[Symbol]										
	Dark brown silty Fine SAND with large root (SM)	3	[Symbol]										
	Dark gray SILT with roots (MH)		[Symbol]										
	Gray silty Fine SAND with CLAY (SM/CH)	4	[Symbol]										
	Gray silty CLAY (CH)		[Symbol]										
		5	[Symbol]										
	Dark gray silty to clayey Fine SAND (SM) to (SC)		[Symbol]										
		6	[Symbol]										
		7	[Symbol]										

LEGEND:

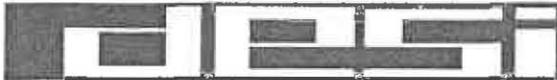
⊕+ Denotes Penetration Resistance in excess of 50 TSF

DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO.** B-3
Project Pic Town Phase I Soil Borings, Manatee County, Florida
Location See Plate I **Foreman** M.B.
Completion **Depth To** **Time** **Date**
Depth 13.5' **Date** 11/30/11 **Water** 5.1' **Date** 11/30/11

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
			SURF. EL.:		10	20	40	60	80
0			2" Asphalt Pavement						
			7" Shell Base						
			Brown Fine SAND with abundant shell (SP)						
			Dark brown silty Fine SAND with shell (SP)						
			Brown and light brown Fine SAND (SP)						
2.5			Dark brown silty Fine SAND with large root (SM)						
			Dark gray SILT with roots (MH)						
			Gray silty Fine SAND with CLAY (SM/CH)						
5			Gray silty CLAY (CH)						
			Dark gray silty to clayey Fine SAND (SM) to (SC)						
			Very loose dark gray silty Fine SAND (SM)						
			Loose to medium dense light gray Fine SAND with abundant shell (SP)	2/6/4					
7.5									
				2/3/4					
10									
				4/4/3					
12.5									
				6/9/6					
15									

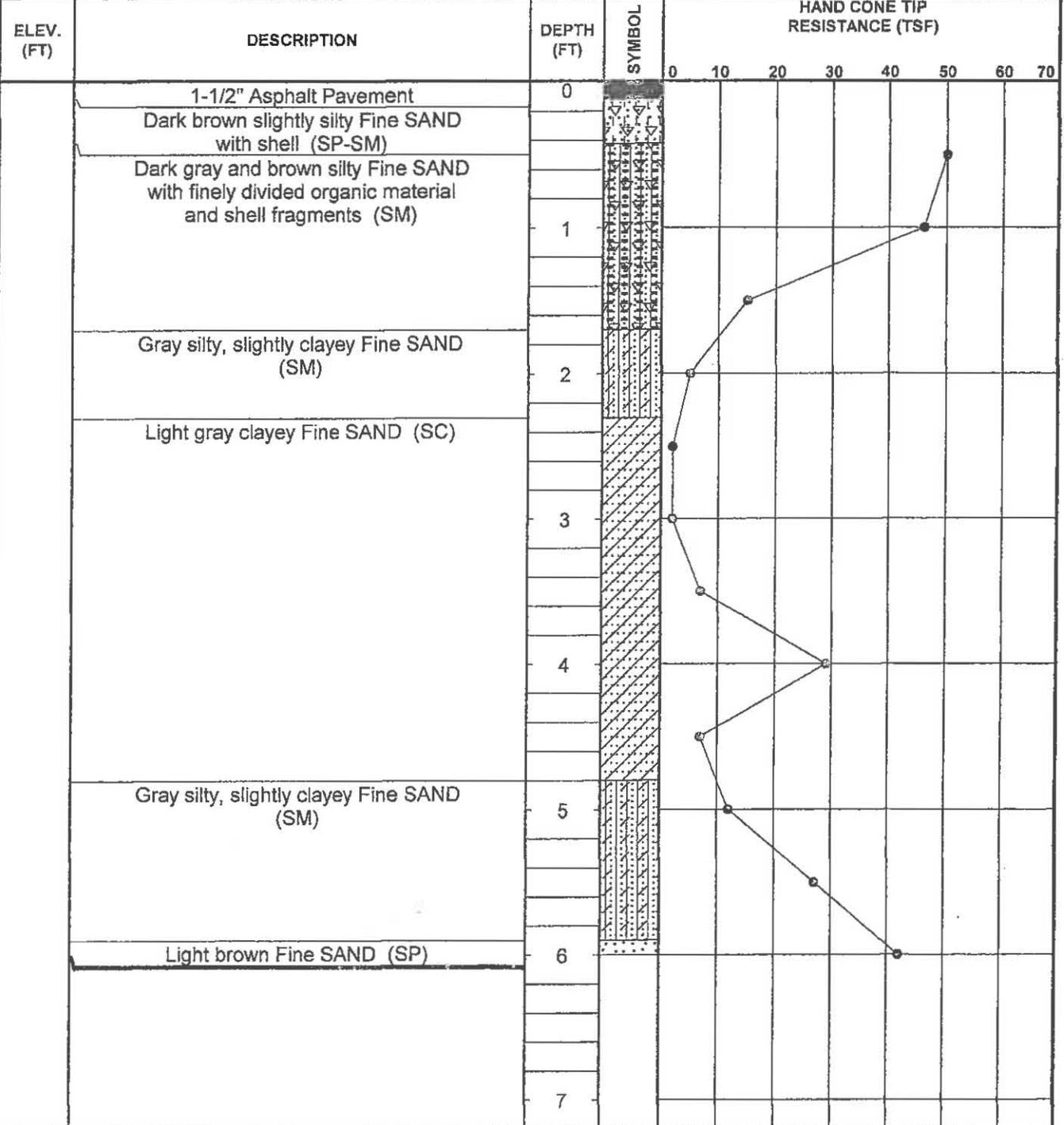
Remarks Borehole Grouted **Casing Length** _____



DRIGGERS ENGINEERING SERVICES INCORPORATED

HAND AUGER BORING/HAND CONE SOUNDING LOG

PROJECT: Pic Town Phase I Soil Borings Manatee County, Florida Project No.: DES 116863		CLIENT: Manatee County	
TECHNICIAN: M.B./S.F.		WATER TABLE: 4.4'	DATE: 11/30/11
LOCATION: See Plate I		DATE: 11/30/11	COMPLETION DEPTH: 6.0'
		TEST NUMBER: B-4	



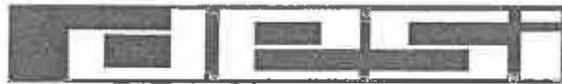


DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO. B-4**
 Project Pic Town Phase I Soil Borings, Manatee County, Florida
 Location See Plate I Foreman M.B.
 Completion Depth 13.5' Date 11/30/11 Depth To Water 4.4' Time _____ Date 11/30/11

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
			SURF. EL:						
0			1-1/2" Asphalt Pavement						
			Dark brown slightly silty Fine SAND with shell (SP-SM)						
			Dark gray and brown silty Fine SAND with finely divided organic material and shell (SM)						
2.5			Gray silty, slightly clayey Fine SAND (SM)						
			Light gray clayey Fine SAND (SC)						
5			Gray silty, slightly clayey Fine SAND (SM)						
			Light brown Fine SAND (SP)						
			Medium dense light tan and gray Fine SAND (SP)	3/6/10					
7.5			Medium dense gray Fine SAND with shell (SP)						
				5/10/8					
10			Loose light gray Fine SAND with abundant shell (SP)						
				3/4/3					
12.5			Loose dark gray Fine SAND with shell (SP)						
				3/4/4					
15									

Remarks Borehole Grouted Casing Length _____



DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO. B-5**
 Project Pic Town Phase I Soil Borings, Manatee County, Florida
 Location See Plate I Foreman _____ M.B. _____
 Completion Depth 13.5' Date 11/30/11 Depth To Water 4.8' Time _____ Date 11/30/11

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP					
					10	20	40	60	80	
			SURF. EL:							
0			2-1/2" Asphalt Pavement							
			Brown slightly silty Fine SAND with shell (SP-SM)							
			Brown Fine SAND with shell (SP)							
2.5			Dark gray slightly silty Fine SAND with shell and seams of CLAY (SP-SM/CH)							
			Gray silty, slightly clayey Fine SAND (SM)							
			Gray clayey Fine SAND (SC)							
5			Dark gray silty Fine SAND (SM)							
			Light gray Fine SAND with shell (SP)							
			Loose to medium dense gray Fine SAND with abundant shell (SP)	3/3/3						
7.5				3/4/4						
10				5/7/8						
12.5				4/5/7						
15										

Remarks Borehole Grouted Casing Length _____

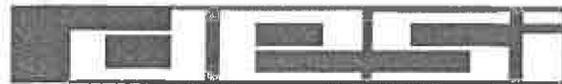


DRIGGERS ENGINEERING SERVICES INCORPORATED

HAND AUGER BORING/HAND CONE SOUNDING LOG										
PROJECT: Pic Town Phase I Soil Borings Manatee County, Florida Project No.: DES 116863					CLIENT: Manatee County					
TECHNICIAN: M.B./S.F.					WATER TABLE: See "Note"			DATE: 11/30/11		
LOCATION: See Plate I					DATE: 11/30/11			COMPLETION DEPTH: 1.0' *		
TEST NUMBER: B-6										
ELEV. (FT)	DESCRIPTION	DEPTH (FT)	SYMBOL	HAND CONE TIP RESISTANCE (TSF)						
				0	10	20	30	40	50	60
	5-3/4" Asphalt Pavement	0								
	Dark brown Fine SAND with shell (SP)		▽▽▽▽						●†	
	Light brown silty Fine SAND with shell (SM)	1	▤▤▤▤						●†	
	* Could not penetrate below depth 1.0' due to LIMESTONE.								●†	
	Note: Water Table not encountered within depth of 1.0'.	2								
		3								
		4								
		5								
		6								
		7								

LEGEND:

●† Denotes Penetration Resistance in excess of 50 TSF



DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 116863 **BORING NO. B-6**
 Project Pic Town Phase I Soil Borings, Manatee County, Florida
 Location See Plate I Foreman M.B.
 Completion Depth 13.5' Date 11/30/11 Depth To Water _____ Time _____ Date _____

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
SURF. EL:									
0			5-3/4" Asphalt Pavement						
			Dark brown Fine SAND with shell (SP)	36*	* 0.3' Penetration				
			Light brown silty Fine SAND with shell (SM)						
			Light grayish-brown sandy LIMESTONE						
2.5				18/24/16					
5			Medium dense gray and tan slightly silty Fine SAND (SP-SM)	8/7/9					
7.5			Medium dense gray Fine SAND with seams of LIMESTONE (SP)	15/16/14					
			Loose tan and gray slightly silty Fine SAND with shell fragments (SP-SM)	3/2/3					
10			Medium dense dark gray Fine SAND with shell (SP)	4/6/6					
12.5			Medium dense light gray Fine SAND with abundant shell (SP)	5/7/8					
15									

Remarks Borehole Grouted Casing Length _____

METHOD OF TESTING

STANDARD PENETRATION TEST AND SOIL CLASSIFICATION

STANDARD PENETRATION TEST (ASTM D-1586)

In the Standard Penetration Test borings, a rotary drilling rig is used to advance the borehole to the desired test depth. A viscous drilling fluid is circulated through the drill rods and bit to stabilize the borehole and to assist in removal of soil and rock cuttings up and out of the borehole.

Upon reaching the desired test depth, the 2 inch O.D. split-barrel sampler or "split-spoon", as it is sometimes called, is attached to an N-size drill rod and lowered to the bottom of the borehole. A 140 pound hammer, attached to the drill string at the ground surface, is then used to drive the sampler into the formation. The hammer is successively raised and dropped for a distance of 30 inches using a rope and "cathead" assembly. The number of blows is recorded for each 6 inch interval of penetration or until virtual refusal is achieved. In the above manner, the samples are ideally advanced a total of 18 inches. The sum of the blows required to effect the final 12 inches of penetration is called the blowcount, penetration resistance or "N" value of the particular material at the sample depth.

After penetration, the rods and sampler are retracted to the ground surface where the core sample is removed, sealed in a glass jar and transported to the laboratory for verification of field classification and storage.

SOIL SYMBOLS AND CLASSIFICATION

Soil and rock samples secured in the field sampling operation were visually classified as to texture, color and consistency. The Unified Soil Classification was assigned to each soil stratum per ASTM D-2487. Soil classifications are presented descriptively and symbolically for ease of interpretation. The stratum identification lines represent the approximate boundary between soil types. In many cases, this transition may be gradual.

Consistency of the soil as to relative density or undrained shear strength, unless otherwise noted, is based upon Standard Penetration resistance values of "N" values and industry-accepted standards. "N" values, or blowcounts, are presented in both tabular and graphical form on each respective boring log at each sample interval. The graphical plot of blowcount versus depth is for illustration purposes only and does not warrant continuity in soil consistency or linear variation between sample intervals.

The borings represent subsurface conditions at respective boring locations and sample intervals only. Variations in subsurface conditions may occur between boring locations. Groundwater depths shown represent water depths at the dates and time shown only. The absence of water table information does not necessarily imply that groundwater was not encountered.