Design & Post Design Services: Pines Village Water Main Improvements Phase II & Septic Tank Conversion

Request for Qualifications # PSUT-20-02

General Information		
Project Cost Estimate	The City anticipates the cost of the professional services to be approximately $1,000,000	See Section 1.6 / Tab 8
Evaluation of Proposals	The timeline for the consultant to complete the design services would be 9 months from award of the contract.	See Section 1.6 / Tab 8
Evaluation of Proposals	Evaluation Committee	See Section 1.8
Non-Mandatory Pre-Bid Meeting	Not Applicable	Not Applicable
Question Due Date	February 11, 2020	See Section 1.9
Proposals will be accepted until	2:00 p.m. on February 25, 2020	See Section 1.9
Proposal Security / Bid Bond	Not Applicable	Not Applicable
Payment and Performance Bonds	Not Applicable	Not Applicable

THE CITY OF PEMBROKE PINES
PURCHASING DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020

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Attachment G: Standard Form 330
Attachment H: Project General Map
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SECTION 1 - INSTRUCTIONS

1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

RFQ # PSUT-20-02
Design & Post Design Services:
Pines Village Water Main Improvements Phase II & Septic Tank Conversion

Solicitations may be obtained from the City of Pembroke Pines website at http://www.ppines.com/index.aspx?NID=667 and on the www.BidSync.com website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at purchasing@ppines.com. The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the "Ask a Question" option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposals will be accepted until 2:00 p.m., Tuesday, February 25, 2020. Proposals must be **submitted electronically at www.BidSync.com**. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk's Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

1.2 PURPOSE

The City of Pembroke Pines is seeking qualification statements from qualified firms to provide design engineering, and permitting services encompassing the second phase of water main improvements, and sanitary service to a series of commercial and residential properties that are currently on septic tanks, located within the Pines Village community, in accordance with the terms, conditions, and specifications contained in this solicitation, and in accordance with the Consultant Competitive Negotiation Act (C.C.N.A. – Florida Statute 287.055).

1.3 SCOPE OF WORK

Firms shall provide design engineering, and permitting services encompassing the second phase of water main improvements, and sanitary service to a series of commercial and residential properties that are currently on septic tanks, located within the Pines Village community.

Water distribution work includes, but is not limited to, approximately 44,000 linear feet of new PVC water main, replacement of existing water main, abandonment of old water mains, relocation of backyard water meters to the front of properties, installation of new water services, new meters, private plumbing to reconnect residential services, including new house service pressure valves, and restoration.

Sewer distribution work includes, but is not limited to, laterals, clean-outs, manholes, sewer main, small-scale pump station (if required), force main, and restoration.

The City has included **Attachment H "Project General Map"** which indicates the area in which the project will be located. Please note the larger of the two outlined areas is where the project as a whole will be located.

Furthermore, the City has included **Attachment I "Phase I Drawings/Plans"** as a reference for the consultants so that they are familiar with the first phase of the project, as the second phase would be fairly similar.

1.4 TERM OF CONTRACT

The City intends to award this project as a one-time contract to complete the services outlined in the scope of work.

1.5 PRE-QUALIFIED FIRMS AND PROSPECTIVE FIRMS

The following firms shown in **Section 1.5.2** below have been deemed qualified and were selected to be included in the City's pool of Professional Services Providers for the specified Disciplines as outlined.

Firms that have been **deemed qualified for the specified discipline** will only be required to submit the documentation requested in **Section 1.6 Parts A & C only.** However, the City encourages all firms to submit all of the documentation requested in **Section 1.6 Parts A, B & C.**

Firms that have not yet been deemed qualified for the specified discipline must submit all documentation requested in **Section 1.6 Parts A, B & C**, in order to be deemed fully qualified to render the required service. After the evaluation committee has deemed the firm(s) qualified, the evaluation committee shall evaluate the current statements of qualifications and performance data on file with the pre-qualified firms, together with those the new firms that have been qualified for this project, and shall conduct discussions with, and may require public presentations by, no fewer than three firms regarding their qualifications, approach to the project, and ability to furnish the required services.

1.5.1 PROFESSIONAL SERVICE DISCIPLINES USED FOR THIS PROJECT

The following professional service disciplines will be utilized for this project:

- **General Civil and Environmental Engineering Services**

1.5.2 EXISTING POOL OF PROFESSIONAL SERVICE PROFESSIONALS BY DISCIPLINE

#	Firm	General Civil & Environmental Engineering	Treatment Plant Process Engineering	Electrical Engineering	Geotechnical	Structural Engineering	Land Surveying	General Architectural	Landscape Architecture	Hydro-Geological	FDOT Roadway Engineering
1	3FM Engineering, Inc			X							
2	A.D.A. Engineering, Inc	X		X							X
3	AMBRO, Inc	X									
4	Avirom & Associates, Inc						X				
5	Bailey Engineering Consultants, Inc			X							
6	Baxter & Woodman, Inc. (Matthews Consulting)	X					X				
7	Biscayne Engineering Company, Inc						X				
8	Calvin, Giordano & Associates, Inc	X	X	X	X	X	X	X	X	X	X
9	Carollo Engineers, Inc		X								
10	Cartaya and Associates, P.A							X			
11	CES Consultants, Inc	X			X	X	X		X		X
12	CES Engineering Services, LLC (Consulting Engineering Services)			X							
13	Chen Moore and Associates, Inc	X							X		
14	Connect Consulting, Inc									X	
15	CPH, Inc	X	X				X	X	X		X
16	CPZ Architects, Inc							X			
17	Craven, Thompson & Associates, Inc	X					X		X		
18	Debora L. Fields (DL Fields Consultants, LLC)							X			

19	EBS Engineering, Inc	X									
20	Engenuity Group, Inc	X					X				
21	Florida Technical Consultants, LLC	X									
22	GFA International, Inc				X					X	
23	Ingemel S.A. LLC	X	X	X		X	X				
24	Keith and Schnars, P.A						X		X		X
25	Kimley-Horn and Associates, Inc	X	X	X	X	X	X		X	X	X
26	Lakdas-Yohalem Engineering, Inc					X					
27	MARLIN Engineering, Inc						X				X
28	Miller Legg & Associates, Inc						X		X		
29	Netta Architects, LLC							X			
30	Premiere Design Solutions	X					X				X
31	R.J. Behar & Company, Inc	X				X					X
32	Saltz Michelson Architects, Inc	X		X	X	X	X	X	X		X
33	Slattery & Associates Architects Planners, Inc							X			
34	Synalovski Romanik Saye, LLC							X			
35	Tierra South Florida, Inc				X						
	Count	**16**	**5**	**8**	**6**	**7**	**15**	**9**	**9**	**4**	**10**

1.6 PROPOSAL REQUIREMENTS

The following documents will need to be completed, scanned and submitted through www.bidsync.com as part of the bidder's submittal. The proposer interested in responding to this solicitation must provide the information requested below. Submittals that do not respond completely to all requirements specified herein may be considered non-responsive and eliminated from the process.

All proposals shall address and be tabbed/indexed as outlined below:

Part A

Title Page:

List the following:

Subject: **RFQ # PSUT-20-02 "Design & Post Design Services: Pines Village Water Main Improvements Phase II & Septic Tank Conversion"**

1. Date
2. Name of the Firm
3. Address of the local office
4. Telephone Number
5. Email Address

Tab 1 – Letter of Interest:

Limit to two (2) pages.

1. Attach a letter of interest that explains your firm's interest in working on this project, a positive commitment to perform the required work and a description of the firm including:
    a. Include the size
    b. Range of activities
    c. Firms strength and stability
    d. Summary of abilities and experience of the firms' professional personnel
    e. Summary of past performance of the firm on similar projects
    f. Availability and access to the firms' top level management personnel.
    g. Identification of firm's, single, professionally licensed point of contact for this project.
2. This Letter of Interest must be signed by a corporate officer.

Part B

Tab 2 – Standard Form 330 (Parts I and II)

The **Standard Form 330** has been included in this RFQ as **Attachment G**. Firms shall complete both Part I and II of the Standard Form 330 so that the City can obtain adequate information to pre-qualify firms and for the specified discipline and for the services outlined in this RFQ.

Tab 3 – Certified Minority Business Enterprise

1. Please identify if you are a Certified Minority Business Enterprise as defined by the Florida Small and Minority Business Assistance Act.
    a. If you are a Certified Minority Business Enterprise as defined by the Florida Small and Minority Business Assistance Act, please provide proof.

Tab 4 – Other Completed Documents

1. **Attachment A: Contact Information Form**
    a. Attached is contact information form **(Attachment A)** where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal.
    b. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name

on the documents that they are submitting and utilizing when responding to the solicitation.

c. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.
d. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
e. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

2. **Attachment B: Non-Collusive Affidavit**
3. **Attachment C: Proposer's Qualifications Statement**
4. **Attachment F: References Form**
    a. Firms shall provide five references within the State of Florida from the last five years.

Tab 5 – Professional Registration Certificates:

1. **Professional Registration Certificates:** A reproduction of the firm's current professional registration certificate(s) is required for the services offered and must be in the name of the firm offering said services (architecture, engineering, general contractor or other certification required). Firms must be properly registered at the time of application to practice their profession in the State of Florida and with the appropriate State Board governing the services offered.

Part C

Tab 6 – Ability of Professional Personnel:

1. Provide the name of the proposed Project Manager (PM). The PM is to be a Professional Engineer with experience specific to the Scope of Services who will sign and seal the work. The PM is to be the single point of contact between the City and the Consultant.
2. Provide a copy of the resume of the PM and other supporting personnel.
3. Provide any additional information relating to the ability of the professional personnel that will work on this project.

Tab 7 – Past Performance:

Please provide supplemental information regarding the following:

1. A listing of similar work signed and sealed by the proposed PM in the last 10 years with references (including names, titles, e-mail and phone numbers).

Tab 8 - Willingness to meet time and budget requirements:

Please advise if your firm is willing to meet the following time and budget requirements.

1. **Budget:** The City anticipates the cost of the professional services to be approximately $1,000,000.
2. **Timeline:** The timeline for the consultant to complete the design services would be 9 months from award of the contract.

Please note that during this portion of the process, the City is NOT asking for the firms to submit pricing. After the evaluation committee has selected the firms in order of preference, the City shall negotiate a contract with the most qualified firm for professional services at compensation which the agency determines is fair, competitive, and reasonable. Should the agency be unable to negotiate a satisfactory contract with the firm considered to be the most qualified at a price the agency determines to be fair, competitive, and reasonable, negotiations with that firm must be formally terminated. The agency shall then undertake negotiations with the next most qualified firm.

Tab 9 - Location:

Please provide the address and the primary location on where work will be performed by your firm for this project. Firm must have a local established office location within the counties of Broward, Miami Dade or Palm Beach Counties. Work must be completed in this office. If services will be performed by different offices (such as a joint venture) provide a location for each firm.

Tab 10 - Recent, current, and projected workloads of the firms:

Please provide any information regarding your firm's recent, current, and projected workloads for the Evaluation Committee to review.

Tab 11 - Firm's Understanding and Approach to the Work:

The understanding that the applicant and consultants demonstrate as to the requirements and needs of the project, including an evaluation of the thoroughness demonstrated in analyzing and investigating the scope of the project.

1. Provide a narrative statement demonstrating an understanding of the overall intent of this solicitation, as well as the methods used to complete assigned tasks.
2. Please clearly describe all aspects of the project proposed.
3. Please identify any sub-consultants that shall be used for this project and their involvement, if applicable.
4. Include details of your approach and work plans.
5. Identify any issues or concerns of significance that may be appropriate.
6. A brief statement must be included which explains why your proposal would be the most effective and beneficial to the City of Pembroke Pines.

Tab 12 - Additional Information:

Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

1.7 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and re-submit the forms each time they bid on a City project.

Furthermore, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.

The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.

1.7.1 Vendor Information Form

1.7.2 Form W-9 (Rev. October 2018)

a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

1.7.3 Sworn Statement on Public Entity Crimes Form

1.7.4 Local Vendor Preference Certification

a. If claiming Local Pembroke Pines Vendor Preference, business must attach a current business tax receipt from the City of Pembroke Pines

b. If claiming Local Broward County Vendor Preference, business must attach a current business tax receipt from Broward County or the city within Broward County where the business resides.

c. The Local Vendor Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Local Vendor Preference based on their sub-contractors' qualifications.

1.7.5 Local Business Tax Receipts

1.7.6 Veteran Owned Small Business Preference Certification

a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).

b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.

1.7.7 Equal Benefits Certification Form

1.7.8 Vendor Drug-Free Workplace Certification Form

1.7.9 Scrutinized Company Certification

1.8 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the RFQ. Evaluations shall be based upon the information and references contained in the proposals as submitted. **As such, the Proposal should be as comprehensive as possible; clearly describing the details of services that the Proposer intends to provide.**

1.8.1 QUALIFYING FIRMS THAT HAVE NOT YET BEEN DEEMED QUALIFED

A. The City will convene an Evaluation Committee that will evaluate the proposals of the firms **that have not yet been deemed qualified** based on the following criteria to determine if the firm is fully qualified to render the required service:

Criteria	Points
Adequacy of Personnel / Ability of Professional Personnel	25 points

Whether a firm is a Certified Minority Business Enterprise (as defined by the Florida Small and Minority Business Assistance Act)	5 points
Past Record / Past Performance	25 points
Capabilities	25 points
Experience (of the firm or individual)	20 points
Total Points	**100 points**

B. The Evaluation Committee will make a motion on whether or not to approve the firms as qualified to render the required professional services.

1.8.2 COMPETITIVE SELECTION OF PROFESSIONAL SERVICE PROVIDERS FROM THE QUALIFIED FIRMS

A. The Evaluation Committee will evaluate the current statements of qualifications and performance data on file for the pre-qualified pool of professional services providers for the specified discipline(s), together with those that were submitted by other firms that were deemed qualified in **Section 1.8.1** above, regarding the proposed project.

B. The Evaluation Committee shall have the option of shortlisting the qualified firms to **no less than three firms**. In addition, the Evaluation Committee **shall conduct discussions** and may require presentations from each of the short listed firms regarding their:

(1) Qualifications;
(2) Approach to the project; and
(3) Ability to furnish the required services.

C. The Evaluation Committee shall select in order of preference **no fewer than three firms** deemed to be the most highly qualified to perform the required services. In determining whether a firm is qualified, the Evaluation Committee shall utilize the following criteria:

Criteria	**Points**
Adequacy of Personnel / Ability of Professional Personnel	25 points
Whether a firm is a Certified Minority Business Enterprise (as defined by the Florida Small and Minority Business Assistance Act)	5 points
Past Record / Past Performance	25 points
Willingness to meet time and budget requirements	20 points
Recent, current, and projected workloads of the firms	15 points
Location	5 points
Local Vendor Preference/ Veteran Owned Small Business Preference*	5 points

Total Points	**100 points**

**Please note that the Local Vendor Preference is used to evaluate the submittals received from proposers and are assigned point totals, a preference of five (5) points of the total evaluation point shall be given to the Local Pembroke Pines Vendor(s); a preference of two and a half (2.5) points of the total evaluation point shall be given to the Local Broward County Vendor(s), all other vendors shall receive zero (0) points. Vendors must submit the attached Local Vendor Preference Certification Form in order to qualify for these evaluation points.*

Veteran Owned Small Business (VOSB) is also used to evaluate the submittals received from proposers and are assigned point totals, a preference of two and a half (2.5) points of the total evaluation point shall be given to the Veteran Owned Small Businesses. Vendors must submit the attached Veteran Owned Small Business Preference Certification Form in order to qualify for these evaluation points.

All other vendors shall receive zero (0) points.

D. In the event a score for an individual evaluator results in a tie or the overall score results in a tie, the evaluator or evaluation committee will be asked to **break the tie and rank the tied vendors based on the volume of work previously awarded to each firm by the City**, with the object of effecting an equitable distribution of contracts among qualified firms, provided such distribution does not violate the principle of selection of the most highly qualified firms.

   i. In the event the score still results in a tie, the evaluator or evaluation committee will be asked to **break the tie and give preference to a business that certifies that it has implemented a drug-free workplace program on the Vendor Drug-Free Workplace Certification Form**.

   ii. In the event the score still results in a tie, the evaluator or evaluation committee will be asked to break the tie by **publicly drawing lots**.

E. The Evaluation Committee will make a recommendation to the City Commission to:

   a. Award the contract and for approval for the City Manager to negotiate a contract with most qualified firm. (The contract shall be awarded to the most responsive/responsible proposer whose proposal is determined to be the most advantageous to the City taking into consideration the evaluation criteria.)

F. The City may request, accept, and consider proposals for the compensation to be paid under the contract only during competitive negotiations under **Section 1.8.3** below.

1.8.3 COMPETITIVE NEGOTIATION

In accordance with Florida Statute 287.055(5) "Competitive Negotiation":

(a) The City's Administrative Staff shall negotiate a contract with the most qualified firm for professional services at compensation which the agency determines is fair, competitive and reasonable. In making such determination, the City's Administrative Staff shall conduct a detailed analysis of the cost of the professional services required in addition to considering their scope and complexity. For any lump-sum or cost-plus-a-fixed-fee professional service contract **over $195,000** *(the threshold amount provided in s. 287.017 for CATEGORY FOUR)*, the City shall require the firm receiving the award to execute a truth-in-negotiation certificate stating that wage rates and other factual unit costs supporting the compensation are accurate, complete, and current at the time of contracting. Any professional service contract under which such a certificate is required must contain a provision that the original contract price and any additions thereto will be adjusted to exclude any significant sums by which the City determines the contract price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the contract.

(b) Should the City's Administrative Staff be unable to negotiate a satisfactory contract with the firm considered to be the most qualified at a price the City's Administrative Staff determines to be fair, competitive, and reasonable, negotiations with that firm must be formally terminated. The City's Administrative Staff shall then undertake negotiations with the second most qualified firm. Failing accord with the second most qualified firm, the City's Administrative Staff must terminate negotiations. The City's Administrative Staff shall then undertake negotiations with the third most qualified firm.

(c) Should the City's Administrative Staff be unable to negotiate a satisfactory contract with any of the selected firms, the City's Administrative Staff shall select additional firms in the order of their competence and qualification and continue negotiations in accordance with this subsection until an agreement is reached.

1.8.4 PROHIBITION AGAINST CONTINGENT FEES

In accordance with Florida Statute 287.055(6) "Prohibition against Contingent Fees":

(a) Each contract entered into by the City for professional services must contain a prohibition against contingent fees as follows:

> "The architect (or registered surveyor and mapper or professional engineer, as applicable) warrants that he or she has not employed or retained any company or person, other than a bona fide employee working solely for the architect (or registered surveyor and mapper, or professional engineer, as applicable) to solicit or secure this agreement and that he or she has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working

solely for the architect (or registered surveyor and mapper or professional engineer, as applicable) any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this agreement."

For the breach or violation of this provision, the City shall have the right to terminate the agreement without liability and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

1.9 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	**January 21, 2020**
Question Due Date	**February 11, 2020**
Anticipated Date of Issuance for the Addenda with Questions and Answers	**February 17, 2020**
Proposals will be accepted until	**2:00 p.m. on February 25, 2020**
Proposals will be opened at	**2:30 p.m. on February 25, 2020**
Evaluation of Proposals by Evaluation Committee	**March – April, 2020**
Recommendation of award to City Commission	**April – May 2020**

1.10 SUBMISSION REQUIREMENTS

Bids/proposals **must be submitted electronically** at www.bidsync.com **on or before 2:00 p.m. on February 25, 2020.**

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their information through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. **Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

SECTION 2 - INSURANCE REQUIREMENTS

2.1 The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners, principals or subcontractors. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorneys' fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

2.2 CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on any subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.

2.3 Certificates of Insurance, reflecting evidence of the required insurance, shall be filed with the CITY's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than "A" as to management, and no less than "Class VI" as to financial strength according to the latest edition of Best's Insurance Guide published by A.M. Best Company.

2.4 Certificates of Insurance shall provide for thirty (30) days' prior written notice to the CITY in case of cancellation or material changes in the policy limits or coverage states. If the carrier cannot provide thirty (30) days' notice of cancellation, either the CONTRACTOR or their Insurance Broker must agree to provide notice.

2.5 Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall neither commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

2.6 REQUIRED INSURANCE

CONTRACTOR shall be required to obtain all applicable insurance coverage, as indicated below, prior to commencing any work pursuant to this Agreement:

Yes No

✓ ☐ 2.6.1 Comprehensive General Liability Insurance written on an occurrence basis including, but not limited to: coverage for bodily injury and property damage, personal & advertising injury, products & completed operations, and contractual liability. Coverage must be written on an occurrence basis, with limits of liability no less than:

1. Each Occurrence Limit - $1,000,000
2. Fire Damage Limit (Damage to rented premises) - $100,000
3. Personal & Advertising Injury Limit - $1,000,000
4. General Aggregate Limit - $2,000,000
5. Products & Completed Operations Aggregate Limit - $2,000,000

Products & Completed Operations Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement. (*For Construction projects: Increase to ten (10) years and include a Designated Construction Project(s) General Aggregate Limit)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

✓ ☐ 2.6.2 Workers' Compensation and Employers' Liability Insurance covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and all subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

1. Workers' Compensation:	Coverage A –	Statutory
2. Employers Liability:	Coverage B	$500,000 Each Accident
		$500,000 Disease – Policy Limit
		$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

Yes No

✓ ☐ 2.6.3 Comprehensive Auto Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:

1. Any Auto (Symbol 1)
   Combined Single Limit (Each Accident) - $1,000,000
2. Hired Autos (Symbol 8)
   Combined Single Limit (Each Accident) - $1,000,000
3. Non-Owned Autos (Symbol 9)
   Combined Single Limit (Each Accident) - $1,000,000

If work under this Agreement includes transportation of hazardous materials, policy shall include pollution liability coverage equivalent to that provided by the latest version of the ISO pollution liability broadened endorsement for auto and the latest version of the ISO Motor Carrier Act endorsement, equivalents or broader language.

Yes No
☐ ☐ 2.6.3.1 If CONTRACTOR requests reduced limits under a Personal Auto Liability Policy and it is agreed to by the CITY, coverage shall include Bodily Injury limits of $100,000 per person/$300,000 per occurrence and Property Damage limits of $300,000 per occurrence

Yes No
✓ ☐ 2.6.4 Umbrella/Excess Liability Insurance in the amount of **$5,000,000** as determined appropriate by the CITY depending on the type of job and exposures contemplated. Coverage must be follow form of the General Liability, Auto Liability and Employer's Liability. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No
✓ ☐ 2.6.5 Professional Liability/Errors & Omissions Insurance with a limit of liability no less than **$5,000,000** per wrongful or negligent act. This coverage shall be maintained for a period of no less than three (3) years after the delivery of goods/services final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years.)*

Yes No

☐ ✗ 2.6.6 Environmental/Pollution Liability insurance shall be required with a limit of no less than $1,000,000 per wrongful act. Coverage shall include: CONTRACTOR's completed operations, sudden, accidental and gradual pollution conditions. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ✗ 2.6.7 Cyber Liability including Network Security and Privacy Liability with a limit of liability no less than $1,000,000 per loss. Coverage shall include liability arising from: theft, dissemination and/or use of confidential information stored or transmitted in electronic form, unauthorized access to, use of, or tampering with computer systems, including hacker attacks or inability of an authorized third party to gain access to your services, including denial of service, and the introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network, or similar computer-related property and the data, software and programs thereon. If vendor is collecting credit card information, it shall cover all PCI breach expenses. Coverage is to include the various state monitoring and state required remediation as well as meet the various state notification requirements. This coverage shall be maintained for a period of no less than the later of three (3) years after delivery of goods/services or final payment of the Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ✗ 2.6.8 Crime Coverage shall include employee dishonesty, forgery or alteration, and computer fraud in an amount of no less than $1,000,000 per loss. If CONTRACTOR is physically located on CITY's premises, a third-party fidelity coverage extension shall apply.

Yes No

☐ ✗ 2.6.9 Garage Liability & Garage-keepers Legal Liability for those that manage parking lots for the CITY or service CITY vehicles. Coverage must be written on an occurrence basis, with limits of liability no less than $1,000,000 per Occurrence, including products &

completed operations. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ✖ 2.6.10 Liquor Liability for those in the business of selling, serving or furnishing of any alcoholic beverages, whether licensed or not, shall carry a limit of liability of no less than $1,000,000 per occurrence. Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ✖ 2.6.11 Sexual Abuse & Molestation for any agreement involving a vulnerable population. Limits shall be no less than $500,000 per occurrence. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. (*Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed.)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ✖ 2.6.12 Builder's Risk Insurance shall be "All Risk" for one hundred percent (100%) of the completed value of the project that is the subject of this Agreement with a deductible of not more than five percent (5%) for Named Windstorm and $20,000 per claim for all other perils. The Builder's Risk Insurance shall include interests of the CITY, the CONTRACTOR and subcontractors of the project. The CONTRACTOR shall include a separate line item for all costs associated with the Builder's Risk Insurance Coverage for the project. The CITY reserves the right at its sole discretion to utilize the CONTRACTOR's Builder's Risk Insurance or for the CITY to purchase its own Builder's Risk Insurance for the Project. Prior to the CONTRACTOR purchasing the Builder's Risk insurance for the project, the CONTRACTOR shall allow the CITY the opportunity to analyze the CONTRACTOR's coverage and determine who shall purchase the coverage. Should the CITY utilize the CONTRACTOR's Builder's Risk Insurance, the

CONTRACTOR shall be responsible for all deductibles. If the CITY chooses to purchase the Builder's Risk Coverage on the project, the CONTRACTOR shall provide the CITY with a change order deduct for all premiums and costs associated with the Builder's Risk insurance in their schedule. Should the CITY choose to utilize the CITY's Builder's Risk Program, the CITY shall be responsible for the Named Windstorm Deductible and the CONTRACTOR shall be responsible for the All Other Perils Deductible.

If and when 100% is not available or reasonable, the CITY Risk Manager is to make the determination as to what limits are appropriate for the given project.

2.7 REQUIRED ENDORSEMENTS

2.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the Liability Policies required herein.
2.7.2 Waiver of all Rights of Subrogation against the CITY.
2.7.3 Thirty (30) Day Notice of Cancellation or Non-Renewal to the CITY.
2.7.4 CONTRACTOR's policies shall be Primary & Non-Contributory.
2.7.5 All policies shall contain a "severability of interest" or "cross liability" clause without obligation for premium payment of the CITY.
2.7.6 The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

2.8 Any and all insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

2.9 The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Agreement.

2.10 The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.

SECTION 3 - GENERAL TERMS & CONDITIONS

3.1 EXAMINATION OF CONTRACT DOCUMENTS

Before submitting a Proposal, each Proposer should (a) consider federal, state and local laws, ordinances, rules and regulations that may in any manner affect cost or performance of the work, (b) study and carefully correlate the Proposer's observations with the Proposal Documents; and (c) notify the Purchasing Manager of all conflicts, errors and discrepancies, if any, in the Proposal Documents.

The Proposer, by and through the submission of a Proposal, agrees that Proposer shall be held responsible for having familiarized themselves with the nature and extent of the work and any local conditions that may affect the work to be done and the services, equipment, materials, parts and labor required.

3.2 CONFLICT OF INSTRUCTIONS

If a conflict exists between the General Conditions and Instructions stated herein and specific conditions and instructions contained in specifications, the specifications shall govern.

3.3 ADDENDA or ADDENDUM

A formal solicitation may require an Addendum to be issued. An addendum in some way may clarify, correct or change the original solicitation (i.e. due date/time, specifications, terms, conditions, line item). Vendors submitting a proposal should check the BidSync website for any addenda issued. Vendors are cautioned not to consider verbal modifications to the solicitation, as the addendum issued through BidSync will be the only official method whereby changes will be made.

3.4 INTERPRETATIONS AND QUESTIONS

If the Proposer is in doubt as to the meaning of any of the Proposal Documents, is of the opinion that the Conditions and Specifications contain errors or contradictions or reflect omissions, or has any question concerning the conditions and specifications, the Proposer shall submit a question for interpretation or clarification. The City requires all questions relating to the solicitation be entered through the **"Ask a Question"** option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the **"Question Due Date"** stated in the solicitation. Questions received after **"Question Due Date"** shall not be answered. Interpretations or clarifications in response to such questions will be issued via BidSync. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

BidSync Support is also available to assist proposers with submitting their proposal and to ensure that proposers are submitting their proposals correctly. Proposers should ensure that they contact they BidSync support line at 1-800-990-9339 with ample time before the bid closing date and time.

For all other questions related to this solicitation, please contact the Purchasing Division at purchasing@ppines.com.

3.5 RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES

The awarded contractor shall observe and obey all laws, ordinances, rules, and regulations of the federal, state, and CITY, which may be applicable to the service being provided. The awarded firm shall have or be responsible for obtaining all necessary permits or licenses required, if necessary, in order to provide this service.

Bidder warrants by submittal that prices quoted here are in conformity with the latest federal price guidelines, if any.

3.6 WARRANTIES FOR USAGE

Whenever a bid is sought, seeking a source of supply for a specified time for materials or service, the quantities or usage shown are estimated only. No guarantee or warranty is given or implied by the City as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for bidders information only and will be used for tabulation and presentation of bid.

3.7 BRAND NAMES

If and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Bidders shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the **vendor's responsibility** to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

3.8 QUALITY

All materials used for the manufacture or construction of any supplies, materials, or equipment covered by this bid shall be new, the latest model, of the best quality, and highest grade workmanship, unless otherwise noted.

3.9 SAMPLES

Samples, when requested, must be furnished before, or at the bid opening, unless otherwise specified, and delivered free of expense to the City and if not used in testing or destroyed, will upon request within thirty (30) days of bid award be returned at the bidders expense.

3.10 DEVELOPMENT COSTS

Neither the City nor its representatives shall be liable for any expenses incurred in connection with the preparation, submission or presentation of a Bid in response to this solicitation. All information in the Bid shall be provided at no cost to the City.

3.11 PRICING

Prices should be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the bid, the unit prices quoted will govern.

Bidder warrants by virtue of bidding that prices, terms, and conditions quoted in his bid will be firm for acceptance for a period of ninety (90) days from date of bid opening unless otherwise stated by the City or bidder.

3.12 DELIVERY POINT

All items shall be delivered F.O.B. destination, and delivery cost and charges included in the bid price. Failure to do so may be cause for rejection of bid.

3.13 TAX EXEMPT STATUS

The City is exempt from Florida Sales and Federal Excise taxes on direct purchase of tangible property.

3.14 CONTRACT TIME

By virtue of the submission of the Proposal, Proposer agrees and fully understands that

the completion time of the work of the Contract is an essential and material condition of the Contract and that time is of the essence. The Successful Proposer agrees that all work shall be prosecuted regularly, diligently and uninterrupted at such rate of progress as will ensure full completion thereof within the time specified. Failure to complete the work within the time period specified shall be considered a default.

In addition, time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders, or part thereof, without obligation if delivery is not made at the time(s) or place(s) specified.

3.15 COPYRIGHT OR PATENT RIGHTS

Bidder warrants that there have been no violations of copyrights or patent rights in manufacturing, producing, or selling other goods shipped or ordered as a result of this bid, and seller agrees to hold the purchaser harmless from any and all liability, loss or expense occasioned by such violation.

3.16 PUBLIC ENTITY CRIMES

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

The Public Entity Crime Affidavit Form, attached to this solicitation, includes documentation that shall be executed by an individual authorized to bind the Proposer. The Proposer further understands and accepts that any contract issued as a result of this solicitation shall be either voidable or subject to immediate termination by the City. In the event there is any misrepresentation or lack of compliance with the mandates of Section 287.133 or Section 287.134, respectively, Florida Statutes. The City in the event in such termination, shall not incur any liability to the Bidder for any goods, services or materials furnished.

3.17 CONFLICT OF INTEREST

The award of any contract hereunder is subject to the provisions of Chapter 112, Florida Statutes. Proposers must disclose with their Proposal the name of any officer, director, partner, proprietor, associate or agent who is also an officer or employee of CITY or any of its agencies. Further, all Proposers must disclose the name of any officer or employee of CITY who owns, directly or indirectly, an interest of five percent (5%) or more in the Proposer 's firm or any of its branches or affiliate companies.

3.18 FACILITIES

The City reserves the right to inspect the Bidder's facilities at any time with prior notice.

3.19 ENVIRONMENTAL REGULATIONS

CITY reserves the right to consider Proposer's history of citations and/or violations of environmental regulations in determining a Proposer's responsibility, and further reserves the right to declare a Proposer not responsible if the history of violations warrant such determination. Proposer shall submit with the Proposal, a complete history of all citations and/or violations, notices and dispositions thereof. The non-submission of any such documentation shall be deemed to be an affirmation by the Proposer that there are no citations or violations. Proposer shall notify

CITY immediately of notice of any citation or violation that Proposer may receive after the Proposal opening date and during the time of performance of any contract awarded to Proposers.

3.20 SIGNATURE REQUIRED

All proposals must be signed with the firm name and by an officer or employee having authority to bind the company or firm by his signature. FAILURE TO PROPERLY SIGN PROPOSAL SHALL INVALIDATE SAME, AND IT MAY NOT BE CONSIDERED FOR AWARD.

The individual executing this Bid on behalf of the Company warrant to the City that the Company is authorized to do business in the State of Florida, is in good standing and that Company possesses all of the required licenses and certificates of competency required by the State of Florida and Broward County to provide the goods or perform the services herein described.

The signed bid shall be considered an offer on the part of the bidder or contractor, which offer shall be deemed accepted upon approval by the City Commission of the City of Pembroke Pines and in case of default on the part of the bidder or contractor after such acceptance, the City of Pembroke Pines may take such action as it deems appropriate including legal action for damages or specific performance.

3.21 MANUFACTURER'S CERTIFICATION

The City of Pembroke Pines reserves the right to request from bidder separate manufacturer certification of all statements made in the proposal.

3.22 MODIFICATION OR WITHDRAWAL OF PROPOSAL

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

3.23 PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS

All submittals received by the deadline will be recorded, and will subsequently be publicly opened on the same business day at 2:30 p.m. at the office of the City Clerk, 601 City Center Way, Pembroke Pines, FL.

All Proposals received from Proposers in response to the solicitation will become the property of CITY and will not be returned to the Proposers. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of CITY. Proposers are requested to identify specifically any information contained in their Proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law.

Pursuant to Section 119.071 of the Florida Statutes, sealed bids, proposals, or replies received by a Florida public agency shall remain exempt from disclosure until an intended decision is announced or until 30 days from the opening, whichever is earlier.

Therefore, bidders will not be able to procure a copy of their competitor's bids until an intended decision is reached or 30 days has elapsed since the time of the bid opening.

However, pursuant to Section 255.0518 of the Florida Statutes, when opening sealed bids that are received pursuant to a competitive solicitation for **construction or repairs on a public building or public work**, the entity shall:

(a) Open the sealed bids at a public meeting.
(b) Announce at that meeting the name of each bidder and the price submitted in the bid.

(c) Make available upon request the name of each bidder and the price submitted in the bid.

For solicitations that are **not** for **"construction or repairs on a public building or public work"** the City shall not reveal the prices submitted in the bids until an intended decision is announced or until 30 days from the opening, whichever is earlier.

3.24 RESERVATIONS FOR REJECTION AND AWARD

The City of Pembroke Pines reserves the right to accept or reject any and all bids or parts of bids, to waive irregularities and technicalities, and to request rebids. The City also reserves the right to award a contract on such items(s) or service(s) the City deems will best serve its interests. All bids shall be awarded to the most responsive/responsible bidder, provided the (City) may for good cause reject any bid or part thereof. It further reserves the right to award a contract on a split order basis, or such combinations as shall best serve the interests of the City unless otherwise specified. No premiums, rebates or gratuities permitted, either with, prior to, or after award. This practice shall result in the cancellation of said award and/or return of items (as applicable) and the recommended removal of bidder from bid list(s).

3.25 BID PROTEST

Any protests or challenges to this competitive procurement shall be governed by Section 35.38 of the City's Code of Ordinances.

3.26 INDEMNIFICATION

The Successful Proposer shall pay all claims, losses, liens, settlements or judgments of any nature whatsoever in connection with the subsequent indemnifications including, but not limited to, reasonable attorney's fees (including appellate attorney's fees) and costs.

CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of Successful Proposer under the indemnification agreement. Nothing contained herein is intended nor shall it be construed to waive City's rights and immunities under the common law or Florida Statute 768.28 as amended from time to time.

Additional indemnification requirements may be included under Special Terms and Conditions and/or as part of a specimen contract included in the solicitation package.

General Indemnification: To the fullest extent permitted by laws and regulations, Successful Proposer shall indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, harmless from any and all claims, damages, losses, liabilities and expenses, direct, indirect or consequential arising out of or in consequential arising out of or alleged to have arisen out of or in consequence of the products, goods or services furnished by or operations of the Successful Proposer or his subcontractors, agents, officers, employees or independent contractors pursuant to or in the performance of the Contract.

Patent and Copyright Indemnification: Successful Proposer agrees to indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, from all claims, damages, losses, liabilities and expenses arising out of any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Contract, including its use by CITY.

3.27 DEFAULT PROVISION

In the case of default by the bidder or contractor, the City of Pembroke Pines may procure the articles or services from any

other sources and hold the bidder or contractor responsible for any excess costs occasioned or incurred thereby.

The City shall be the sole judge of nonperformance, which shall include any failure on the part of the successful Bidder to accept the Award, to furnish required documents, and/or to fulfill any portion of the contract within the time stipulated. Upon default by the successful Bidder to meet any terms of this agreement, the City will notify the Bidder five (5) days (weekends and holidays excluded) to remedy the default. Failure on the Contractor's part to correct the default within the required five (5) days shall result in the contract being terminated and upon the City notifying in writing the Contractor of its intentions and the effective date of the termination. The following shall constitute default:

A. Failure to perform the Work required under the contract and/or within the time required or failing to use the subcontractor, entities and personnel as identified and set forth, and to the degree specified in the contract.

B. Failure to begin the Work under this Bid within the time specified.

C. Failure to perform the Work with sufficient Workers and equipment or with sufficient materials to ensure timely completion.

D. Neglecting or refusing to remove materials or perform new Work where prior Work has been rejected as non-conforming with the terms of the contract.

E. Becoming insolvent, being declared bankrupt, or committing act of bankruptcy or insolvency, or making an assignment renders the successful Bidder incapable of performing the Work in accordance with and as required by the contract.

F. Failure to comply with any of the terms of the contract in any material respect.

In the event of default of a contract, the successful Bidder shall pay all attorney's fees and court costs incurred in collecting any damages. The successful Bidder shall pay the City for any and all costs incurred in ensuing the completion of the project.

Additional provisions may be included in the specimen contract.

3.28 ACCEPTANCE OF MATERIAL

The material delivered under this proposal shall remain the property of the seller until a physical inspection and actual usage of this material and/or services is made and thereafter accepted to the satisfaction of the City and must comply with the terms herein, and be fully in accord with specifications and of the highest quality. In the event the material and/or services supplied to the City are found to be defective or do not conform to specifications, the City reserves the right to cancel the order upon written notice to the seller and return product to seller at the sellers expense.

3.29 LOCAL GOVERNMENT PROMPT PAYMENT ACT

The City complies with Florida Statute 218.70, Florida Prompt Payment Act.

3.30 SCRUTINIZED COMPANIES LIST

In accordance with Florida Statue 287.135, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services if:

(a) Any amount of, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725, or is engaged in a boycott of Israel; or

(b) One million dollars or more if, at the time of bidding on, submitting a proposal for, or

entering into or renewing such contract, the company:

1. Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473; or

2. Is engaged in business operations in Syria.

By submitting a bid, proposal or response, the company, principals or owners certify that they are not listed on the Scrutinized Companies that boycott Israel List, Scrutinized Companies with activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is engaged in business operations in Syria.

3.31 PUBLIC RECORDS; TRADE SECRET, PROPRIETARY AND CONFIDENTIAL SUBMITTALS

The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.

Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.

Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE BIDSYNC WEBSITE AS A SEPARATE ATTACHMENT CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.

The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

CONTACT INFORMATION FORM

IN ACCORDANCE WITH **"PSUT-20-02"** titled **"Design & Post Design Services: Pines Village Water Main Improvements Phase II & Septic Tank Conversion"** attached hereto as a part hereof, the undersigned submits the following:

A) Contact Information

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

COMPANY INFORMATION:

COMPANY:

STREET ADDRESS:

CITY, STATE & ZIP CODE:

PRIMARY CONTACT FOR THE PROJECT:

NAME: TITLE:

E-MAIL:

TELEPHONE: FAX:

AUTHORIZED APPROVER:

NAME: TITLE:

E-MAIL:

TELEPHONE: FAX:

SIGNATURE:

B) Proposal Checklist

1) Did you make sure to submit the following items, as stated in section 1.6 "Proposal Requirements" of the bid package?

Part A	
Title Page	Yes ☐
Tab 1 - Letter of Interest, signed by a corporate officer.	Yes ☐

Part B	
Tab 2 – Standard Form 330 (Parts I and II)	Yes ☐
Tab 3 – Certified Minority Business Enterprise	Yes ☐
Tab 4 - Other Completed Documents	Yes ☐
1. Attachment A - Contact Information Form	Yes ☐
2. Attachment B - Non-Collusive Affidavit	Yes ☐
3. Attachment C - Proposer's Qualification Statement	
4. Attachment F - References Form	Yes ☐
Tab 5 – Professional Registration Certificates	Yes ☐
Part C	
Tab 6 – Ability of Professional Personnel	Yes ☐
Tab 7 – Past Performance	
Tab 8 – Willingness to meet time and budget requirements	
Tab 9 – Location	
Tab 10 – Recent, current, and projected workloads of the firms	
Tab 11 – Firm's Understanding and Approach to the Work	

2) Did you make sure to update the following documents found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines?

Vendor Information Form	Yes ☐
Form W-9 (Rev. October 2018)	Yes ☐
Sworn Statement on Public Entity Crimes Form	Yes ☐
Local Vendor Preference Certification	Yes ☐
Local Business Tax Receipts	Yes ☐
Veteran Owned Small Business Preference Certification	Yes ☐
Equal Benefits Certification Form	Yes ☐
Vendor Drug-Free Workplace Certification Form	Yes ☐
Scrutinized Company Certification	Yes ☐

City of Pembroke Pines

Attachment B

NON-COLLUSIVE AFFIDAVIT

BIDDER is the _____,
(Owner, Partner, Officer, Representative or Agent)

BIDDER is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

Such Bid is genuine and is not a collusive or sham Bid;

Neither the said BIDDER nor any of its officers, partners, owners, agents, representative, employees or parties in interest, including this affidavit, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other BIDDER, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communications, or conference with any BIDDER, firm, or person to fix the price or prices in the attached Bid or any other BIDDER, or to fix any overhead, profit, or cost element of the Bid Price or the Bid Price of any other BIDDER, or to secure through any collusion conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;

The price of items quoted in the attached Bid are fair and proper and are not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the BIDDER or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

Printed Name/Signature _____

Title _____

Name of Company _____

City of Pembroke Pines

Attachment C

PROPOSER'S QUALIFICATIONS STATEMENT

PROPOSER shall furnish the following information. Failure to comply with this requirement will render Bid non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

PROPOSER'S Name and Principal Address:

PROPOSER'S License Number:

(Please attach certificate of status, competency, and/or state registration.)

Number of years your organization has been in business

State the number of years your firm has been in business under your present business name

State the number of years your firm has been in business in the work specific to this solicitation:

Names and titles of all officers, partners or individuals doing business under trade name:

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer non-responsive.

At what address was that business located?

Name, address, and telephone number of surety company and agent who will provide the required bonds on this contract:

Have you ever failed to complete work awarded to you. If so, when, where and why?

Have you personally inspected the proposed WORK and do you have a complete plan for its performance?

Will you subcontract any part of this WORK? If so, give details including a list of each sub-contractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the Contract Administrator, whose approval shall not be reasonably withheld.

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the Proposer, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

List and describe all successful Bond claims made to your surety (ies) during the last five (5) years. The list and descriptions should include claims against the bond of the Proposer and its predecessor organization(s).

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

List and describe all criminal proceedings or hearings concerning business related offenses in which the Proposer, its principals or officers or predecessor organization(s) were defendants.

Are you an Original provider sales representative distributor, broker, manufacturer other, of the commodities/services proposed upon? If other than the original provider, explain below.

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

The PROPOSER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by CITY in awarding the contract and such information is warranted by PROPOSER to be true. The discovery of any omission or misstatement that materially affects the PROPOSER's qualifications to perform under the contract shall cause the CITY to reject the Bid, and if after the award, to cancel and terminate the award and/or contract.

(Company Name)

(Printed Name/Signature)

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD[YY)

PRODUCER

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED

YOUR COMPANY NAME HERE

INSURER A:
INSURER B,
INSURER C,
INSURER D,
INSURER E,

Companies providing coverage

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AG6REGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DDIYY)	POLICY EXPIRATION DATE (MM/DDIYY)	LIMITS	
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS MADE OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: policy project loc				EACH OCCURRENCE	$
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
					PERSONAL & ADV INJURY	$
					GENERAL AGGREGATE	$
					PRODUCTS - COMP/OP AGG	$
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS					
	GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT	$
					OTHER THAN AUTO ONLY: EA ACC	$
					AGG	$
	EXCESS LIABILITY OCCUR CLAIMS MADE				EACH OCCURRENCE	$
					AGGREGATE	$
						$
	DEDUCTIBLE					$
	RETENTION $					$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS / OTHER	
					E.L. EACH ACCIDENT	$
					E.L. DISEASE - EA EMPLOYEE	$
					E.L. DISEASE - POLICY LIMIT	$
	OTHER					

Must Include General Liability

SAMPLE CERTIFICATE

Certificate must contain wording similar to what appears below

DESCRIPTION OF OPERATIONS/LOCATIONSIVEHICLES/EXCL

"THE CERTIFICATE HOLDER IS NAMED AS ADDITIONALLY INSURED WITH REGARD TO GENERAL LIABILITY"

CERTIFICATE HOLDER

ADDITIONAL INSURED; INSURER LETTER:

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION AIL 30 DAYS WRITTEN LEFT.

City of Pembroke Pines
601 City Center Way
Pembroke Pines FL 33025

City Must Be Named as Certificate Holder

AUTHORIZED REPRESENTATIVE

ACORD 25-S (7/97)

(DACORD CORPORATION 1988

PROFESSIONAL SERVICES AGREEMENT

THIS IS AN AGREEMENT ("Agreement"), dated the _____ day of _____, **«Contract_Signature_Year»** by and between:

THE CITY OF PEMBROKE PINES, a municipal corporation of the State of Florida with a business address of **601 City Center Way, Pembroke Pines, Florida 33025** (hereinafter referred to as the "CITY")

and

«Vendor» a **«Vendor_Business_Type»** as listed with the Florida Division of Corporations, authorized to do business in the State of Florida, and with a business address of **«Vendor_Address_Line_1», «Vendor_Address_Line_2»** (hereinafter referred to as the "CONSULTANT"). CITY and CONSULTANT may hereinafter be referred to collectively as the "Parties."

W I T N E S S E T H:

In consideration of the mutual terms and conditions, promises, covenants and payments hereinafter set forth, CITY and CONSULTANT agree as follows:

ARTICLE 1
PREAMBLE

In order to establish the background, context and form of reference for this Agreement, and to generally express the objectives and intentions of the respective Parties herein, the following statements, representations, and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions which follow, and may be relied upon by the Parties as essential elements of the mutual considerations upon which this Agreement is based.

1.1 On **_____, _____ 2020**, the CITY approved the findings and recommendation of the evaluation committee and certified CONSULTANT as qualified to provide various Professional Services that the City may need or that may arise, in accordance with the Consultant's Competitive Negotiation Act, Section 287.055 (3)(c), Florida Statutes.

1.2 On **«Solicitation_Advertisement_Date»**, the CITY advertised its notice to bidders of the CITY's desire to hire a firm to provide **«Service_Description»**, as more particularly described in **Exhibit "A"** attached hereto and by this reference made a part hereof, for the said bid entitled:

«Solicitation_Type_Abbreviation» # «Solicitation_Number»
"«Solicitation_Title»"

1.3 On **«Bid_Opening_Date»,** the bids were opened at the offices of the City Clerk.

1.4 On **_____, _____ 2020,** the CITY awarded the bid to CONSULTANT and authorized the proper CITY officials to negotiate and enter into an agreement with CONSULTANT to render the services more particularly described herein below.

1.5 Negotiations pertaining to the services to be performed by the CONSULTANT were undertaken in accordance with the Consultants' Competitive Negotiation Act (CCNA), Section 287.055, Florida Statutes, and this Agreement incorporates the results of such negotiation.

ARTICLE 2
SERVICES AND RESPONSIBILITIES

2.1 CONSULTANT hereby agrees to perform the services for the **«Service_Description»,** as more particularly described in **Exhibit "A"** attached hereto and by this reference made a part hereof.

2.2 CONSULTANT shall furnish all services, labor, equipment, and materials necessary and as may be required in the performance of this Agreement, except as otherwise specifically provided for herein, and all work performed under this Agreement shall be done in a professional manner.

2.3 CONSULTANT hereby represents to CITY, with full knowledge that CITY is relying upon these representations when entering into this Agreement with CONSULTANT, that CONSULTANT has the professional expertise, experience and manpower to perform the services to be provided by CONSULTANT pursuant to the terms of this Agreement.

2.4 CONSULTANT assumes professional and technical responsibility for performance of its services to be provided hereunder in accordance with recognized professional and ethical guidelines established by their profession. If within one year following completion of its services, such services fail to meet the aforesaid standards, and the CITY promptly advises CONSULTANT thereof in writing, CONSULTANT agrees to re-perform such deficient services without charge to the CITY.

2.5 The relationship between CITY and CONSULTANT created hereunder and the services to be provided by CONSULTANT pursuant to this Agreement are non-exclusive. CITY shall be free to pursue and engage similar relationships with other contractors to perform the same or similar services performed by CONSULTANT hereunder, so long as no other consultant shall be engaged to perform the specific project(s) assigned to CONSULTANT while CONSULTANT is so engaged without first terminating such assignment. CONSULTANT shall be free to pursue relationships with other parties to perform the same or similar services, whether or not such relationships are for services to be performed within the City of Pembroke Pines, so long as no such relationship shall result in a conflict of interest, ethical or otherwise, with the CITY's interests in the services provided by CONSULTANT hereunder.

2.6 CONSULTANT shall not utilize the services of any sub-consultant without the prior written approval of CITY.

ARTICLE 3
TERM AND TERMINATION

3.1 CONSULTANT shall perform the services identified in Article 2 within the time frame set forth in **Exhibit "A"**, attached hereto and by this reference made a part hereof. Minor adjustments to the timetable for completion approved by CITY Manager in advance, in writing, will not constitute non-performance by CONSULTANT pursuant to this Agreement.

3.2 This Agreement may be terminated by either party for cause, or by either party for convenience. If terminated for convenience, the terminating party shall provide to the other party seven (7) days' written notice, in which event the CONSULTANT shall be paid its compensation for services performed to termination date. [NOTE: CONSULTANT may not terminate existing assignments for convenience after they have been accepted as addendums to this Agreement.] In the event that the CONSULTANT abandons this Agreement or causes it to be terminated, CONSULTANT shall indemnify the CITY against any loss pertaining to this termination up to a maximum of the full contracted fee amount. All finished or unfinished documents, data, studies, plans, surveys, and reports prepared by CONSULTANT shall become the property of CITY and shall be delivered by CONSULTANT to CITY immediately.

ARTICLE 4
COMPENSATION AND METHOD OF PAYMENT

4.1 CONSULTANT shall be entitled to invoice CITY on a monthly basis for services performed. The invoice shall include, but not be limited to, date of service, the amount of time spent, a description of the service, and any other information reasonably required by CITY. The compensation shall not exceed **«Compensation_Amount_Written» («Compensation_Amount_Numerical»)**.

4.2 CITY will make its best efforts to pay CONSULTANT within thirty (30) days of receipt of proper invoice the total shown to be due on such invoice.

4.3 All payments shall be governed by the Local Government Prompt Payment Act, as set forth in Part VII, Chapter 218, Florida Statutes.

4.4 Payment will be made to CONSULTANT at:

«Vendor_Name»
Attn: «Vendor_Contact_Title»
«Vendor_Address_Line_1»
«Vendor_Address_Line_2»

ARTICLES 5 & 6
RESERVED

ARTICLE 7
CHANGES TO SCOPE OF WORK AND ADDITIONAL WORK

7.1 CITY or CONSULTANT may request changes that would increase, decrease, or otherwise modify the Scope of Services, as described in **Exhibit "A,"** to be provided under this Agreement as described in Article 2 of this Agreement. These changes may affect the monthly compensation accordingly. Such changes or additional services must be in accordance with the provisions of the Code of Ordinances of the CITY, and must be contained in a written amendment, executed by the Parties hereto, with the same formality, equality and dignity herewith prior to any deviation from the terms of this Agreement, including the initiation of any additional or extra work.

7.2 In no event will the CONSULTANT be compensated for any work which has not been described either herein or in a separate written agreement executed by the Parties hereto.

ARTICLE 8
PAYMENT & PERFORMANCE BOND

8.1 Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the CONSULTANT shall execute and furnish to CITY a payment and performance bond, each written by a corporate surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) years. The surety shall hold a current certificate of authority from the Secretary of Treasury of the United States as an acceptable surety on federal bonds in accordance with United States Department of Treasury Circular No. 570. If the amount of the bond exceeds the underwriting limitation set forth in the circular, in order to qualify, the net retention of the surety company shall not exceed the underwriting limitation in the circular and the excess risks must be protected by coinsurance, reinsurance, or other methods, in accordance with Treasury Circular 297, revised September 1, 1978 (31DFR, Section 223.10, Section 223.11). Further, the surety company shall provide CITY with evidence satisfactory to CITY, that such excess risk has been protected in an acceptable manner. The surety company shall have at least the following minimum qualification in accordance with the latest edition of A.M. Best's Insurance Guide, published by Alfred M. Best Company, Inc., Ambest Road, Oldwick, New Jersey 08858:

B+ to A+

8.2 Two (2) separate bonds are required and both must be approved by the CITY. **The penal sum stated in each bond shall be 100% of the contract value.** The performance bond shall be conditioned upon the CONSULTANT's performance of the work in the time and manner prescribed in the Agreement. The payment bond shall be conditioned upon the CONSULTANT's promptly making payments to all persons who supply the CONSULTANT with labor, materials and supplies used directly or indirectly by the CONSULTANT in the prosecution of the work provided for in this Agreement and shall provide that the surety shall pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the maximum rate allowed by law; and that they shall indemnify and save harmless the CITY to the extent of any and all payments in connection with the carrying out of said Agreement which the CITY may be required to make under the law.

Pursuant to the requirements of Section 255.05(1)(a), Florida Statutes, it shall be the duty of the CONSULTANT to record the aforesaid payment and performance bonds in the public records of Broward County, and CONSULTANT shall be responsible for payment of all recording costs.

ARTICLE 9
INDEMNIFICATION

9.1 CONSULTANT shall indemnify and save harmless the CITY, its trustees, elected and appointed officials, agents, servants and employees from and against any and all liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, sustained by the CITY, its trustees, elected and appointed officials, agents, servants or employees arising out of, or by reason of, or resulting from the negligence, recklessness, or intentionally wrongful conduct of CONSULTANT, its agents, servants or employees in the performance under this Agreement.

9.2 Reserved.

9.3 CONSULTANT'S aggregate liability shall not exceed the proceeds of insurance required to be placed pursuant to this Agreement plus the compensation received by CONSULTANT, or extend to any claims brought subsequent to the expiration of warranty period outlined above. The CITY's rights and remedies and CONSULTANT's liabilities as set forth in this Agreement, are exclusive, and the CITY hereby releases CONSULTANT from all further or subsequent liability, whether based in contract or tort and irrespective of fault, negligence, or strict liability.

9.4 The Parties recognize that various provisions of this Agreement, including but not necessarily limited to this section, provide for indemnification by the CONSULTANT and that Section 725.06, Florida Statutes requires a specific consideration be given therefor. The Parties therefore agree that the sum of **Ten Dollars and 00/100 ($10.00)**, receipt of which is hereby acknowledged, is the specific consideration for such indemnities, and the providing of such indemnities is deemed to be part of the specifications with respect to the services to be provided by CONSULTANT. Furthermore, the Parties understand and agree that the covenants and representations relating to this indemnification provision shall survive the term of this Agreement and continue in full force and effect as to the party's responsibility to indemnify.

ARTICLE 10
INSURANCE

10.1 The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners, principals or subcontractors. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorneys' fees

which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

10.2 CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.

10.3 Certificates of Insurance, reflecting evidence of the required insurance, shall be filed with the CITY's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than "A" as to management, and no less than "Class VI" as to financial strength according to the latest edition of Best's Insurance Guide published by A.M. Best Company.

10.4 Certificates of Insurance shall provide for thirty (30) days' prior written notice to the CITY in case of cancellation or material changes in the policy limits or coverage states. If the carrier cannot provide thirty (30) days' notice of cancellation, either the CONTRACTOR or their Insurance Broker must agree to provide notice.

10.5 Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall neither commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

10.6 REQUIRED INSURANCE

CONTRACTOR shall be required to obtain all applicable insurance coverage, as indicated below, prior to commencing any work pursuant to this Agreement:

Yes No

☐ ☐ 10.6.1 Comprehensive General Liability Insurance written on an occurrence basis including, but not limited to: coverage for bodily injury and property damage, personal & advertising injury, products & completed operations, and contractual liability. Coverage must be written on an occurrence basis, with limits of liability no less than:

1. Each Occurrence Limit - $1,000,000
2. Fire Damage Limit (Damage to rented premises) - $100,000

3. Personal & Advertising Injury Limit - $1,000,000
4. General Aggregate Limit - $2,000,000
5. Products & Completed Operations Aggregate Limit - $2,000,000

Products & Completed Operations Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement. (*For Construction projects: Increase to ten (10) years and include a Designated Construction Project(s) General Aggregate Limit)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ☐ 10.6.2 Workers' Compensation and Employers' Liability Insurance covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and all subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

1. Workers' Compensation:	Coverage A –	Statutory
2. Employers Liability:	Coverage B	$500,000 Each Accident
		$500,000 Disease – Policy Limit
		$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

Yes No

☐ ☐ 10.6.3 Comprehensive Auto Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:

1. Any Auto (Symbol 1)
   Combined Single Limit (Each Accident) - $1,000,000
2. Hired Autos (Symbol 8)
   Combined Single Limit (Each Accident) - $1,000,000
3. Non-Owned Autos (Symbol 9)
   Combined Single Limit (Each Accident) - $1,000,000

If work under this Agreement includes transportation of hazardous materials, policy shall include pollution liability coverage equivalent to that provided by the latest version of the ISO pollution liability broadened endorsement for auto and the latest version of the ISO Motor Carrier Act endorsement, equivalents or broader language.

Yes No
☐ ☐ 10.6.3.1 If CONTRACTOR requests reduced limits under a Personal Auto Liability Policy and it is agreed to by the CITY, coverage shall include Bodily Injury limits of $100,000 per person/$300,000 per occurrence and Property Damage limits of $300,000 per occurrence

Yes No
☐ ☐ 10.6.4 Umbrella/Excess Liability Insurance in the amount of $_____ as determined appropriate by the CITY depending on the type of job and exposures contemplated. Coverage must be follow form of the General Liability, Auto Liability and Employer's Liability. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No
☐ ☐ 10.6.5 Professional Liability/Errors & Omissions Insurance with a limit of liability no less than $1,000,000 per wrongful or negligent act. This coverage shall be maintained for a period of no less than three (3) years after the delivery of goods/services final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years.)*

Yes No
☐ ☐ 10.6.6 Environmental/Pollution Liability insurance shall be required with a limit of no less than $1,000,000 per wrongful act. Coverage shall include: CONTRACTOR's completed operations, sudden, accidental and gradual pollution conditions. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment pursuant to this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. *(Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed. For Construction projects: Increase to ten (10) years)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No
☐ ☐ 10.6.7 Cyber Liability including Network Security and Privacy Liability with a limit of

liability no less than $1,000,000 per loss. Coverage shall include liability arising from: theft, dissemination and/or use of confidential information stored or transmitted in electronic form, unauthorized access to, use of, or tampering with computer systems, including hacker attacks or inability of an authorized third party to gain access to your services, including denial of service, and the introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network, or similar computer-related property and the data, software and programs thereon. If vendor is collecting credit card information, it shall cover all PCI breach expenses. Coverage is to include the various state monitoring and state required remediation as well as meet the various state notification requirements. This coverage shall be maintained for a period of no less than the later of three (3) years after delivery of goods/services or final payment of the Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ☐ 10.6.8 Crime Coverage shall include employee dishonesty, forgery or alteration, and computer fraud in an amount of no less than $1,000,000 per loss. If CONTRACTOR is physically located on CITY's premises, a third-party fidelity coverage extension shall apply.

Yes No

☐ ☐ 10.6.9 Garage Liability & Garage-keepers Legal Liability for those that manage parking lots for the CITY or service CITY vehicles. Coverage must be written on an occurrence basis, with limits of liability no less than $1,000,000 per Occurrence, including products & completed operations. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ☐ 10.6.10 Liquor Liability for those in the business of selling, serving or furnishing of any alcoholic beverages, whether licensed or not, shall carry a limit of liability of no less than $1,000,000 per occurrence. Coverage shall be maintained for the later of three (3) years after the delivery of goods/services or final payment under the Agreement.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ☐ 10.6.11 Sexual Abuse & Molestation for any agreement involving a vulnerable population. Limits shall be no less than $500,000 per occurrence. This coverage shall be maintained for a period of no less than the later of three (3) years after the delivery of goods/services or final payment of this Agreement. Retroactive date, if any, to be no later than the first day of service to the CITY. (*Limit to align with size and scope of the Agreement and exposure inherent with operation/services being performed.)*

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. The CITY's additional insured status shall extend to any coverage beyond the minimum limits of liability found herein.

Yes No

☐ ☐ 10.6.12 Builder's Risk Insurance shall be "All Risk" for one hundred percent (100%) of the completed value of the project that is the subject of this Agreement with a deductible of not more than five percent (5%) for Named Windstorm and $20,000 per claim for all other perils. The Builder's Risk Insurance shall include interests of the CITY, the CONTRACTOR and subcontractors of the project. The CONTRACTOR shall include a separate line item for all costs associated with the Builder's Risk Insurance Coverage for the project. The CITY reserves the right at its sole discretion to utilize the CONTRACTOR's Builder's Risk Insurance or for the CITY to purchase its own Builder's Risk Insurance for the Project. Prior to the CONTRACTOR purchasing the Builder's Risk insurance for the project, the CONTRACTOR shall allow the CITY the opportunity to analyze the CONTRACTOR's coverage and determine who shall purchase the coverage. Should the CITY utilize the CONTRACTOR's Builder's Risk Insurance, the CONTRACTOR shall be responsible for all deductibles. If the CITY chooses to purchase the Builder's Risk Coverage on the project, the CONTRACTOR shall provide the CITY with a change order deduct for all premiums and costs associated with the Builder's Risk insurance in their schedule. Should the CITY choose to utilize the CITY's Builder's Risk Program, the CITY shall be responsible for the Named Windstorm Deductible and the CONTRACTOR shall be responsible for the All Other Perils Deductible.

If and when 100% is not available or reasonable, the CITY Risk Manager is to make the determination as to what limits are appropriate for the given project.

Yes No

☐ ☐ 10.6.13 Other Insurance

_____
_____
_____
_____
_____
_____
_____

10.7 REQUIRED ENDORSEMENTS

10.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the Liability Policies required herein.
10.7.2 Waiver of all Rights of Subrogation against the CITY.
10.7.3 Thirty (30) Day Notice of Cancellation or Non-Renewal to the CITY.
10.7.4 CONTRACTOR's policies shall be Primary & Non-Contributory.
10.7.5 All policies shall contain a "severability of interest" or "cross liability" clause without obligation for premium payment of the CITY.
10.7.6 The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

10.8 Any and all insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

10.9 The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Agreement.

10.10 The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.

ARTICLE 11
NON-DISCRIMINATION AND EQUAL OPPORTUNITY EMPLOYMENT

11.1 During the performance of the Agreement, neither the CONSULTANT nor any subcontractors shall discriminate against any employee or applicant for employment because of race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. CONSULTANT will take affirmative action to ensure that employees are treated during employment, without regard to their race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. Such actions must include, but not be limited to, the following: employment, promotion, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. CONSULTANT shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. CONSULTANT further agrees that he/she/it will ensure that subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause.

ARTICLE 12
INDEPENDENT CONTRACTOR

12.1 This Agreement does not create an employee/employer relationship between the Parties. It is the intent of the Parties that the CONSULTANT is an independent contractor under this Agreement and not the CITY's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers' Compensation Act, and the State unemployment insurance law. The CONSULTANT shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONSULTANT's activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONSULTANT, which policies of CONSULTANT shall not conflict with CITY, State, H.U.D., or United States policies, rules or regulations relating to the use of CONSULTANT's Funds provided for herein. The CONSULTANT agrees that it is a separate and independent enterprise from the CITY, that it has full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This Agreement shall not be construed as creating any joint employment relationship between the CONSULTANT and the CITY and the CITY will not be liable for any obligation incurred by CONSULTANT, including but not limited to unpaid minimum wages and/or overtime premiums.

ARTICLE 13
RESERVED

ARTICLE 14
AGREEMENT SUBJECT TO FUNDING

14.1 This agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the City Commission of the City of Pembroke Pines in the annual budget for each fiscal year of this Agreement, and is subject to termination based on lack of funding.

ARTICLE 15
UNCONTROLLABLE FORCES

15.1 Neither CITY nor CONSULTANT shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to: fire, flood, earthquakes, storms, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental actions.

15.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could

have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

ARTICLE 16
VENUE

16.1 This Agreement shall be governed by and construed in accordance with the laws of the State of Florida as now and hereafter in force. The venue for claims or actions arising out of or related to this Agreement shall be in Broward County, Florida.

ARTICLE 17
SIGNATORY AUTHORITY

17.1 CONSULTANT shall provide CITY with copies of requisite documentation evidencing that the signator for CONSULTANT has the authority to enter into this Agreement.

ARTICLES 18, 19, 20, 21
RESERVED

ARTICLE 22
PUBLIC RECORDS

22.1 The City of Pembroke Pines is public agency subject to Chapter 119, Florida Statutes. The CONSULTANT shall comply with Florida's Public Records Law. Specifically, the CONSULTANT shall:

22.1.1 Keep and maintain public records required by the CITY to perform the service;

22.1.2 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 Chapter 119, Florida Statutes, or as otherwise provided by law;

22.1.3 Ensure that public records that are exempt or that are confidential and exempt from public record disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and, following completion of the Agreement, CONSULTANT shall destroy all copies of such confidential and exempt records remaining in its possession after the CONSULTANT transfers the records in its possession to the CITY; and

22.1.4 Upon completion of the Agreement, CONSULTANT shall transfer to the CITY, at no cost to the CITY, all public records in CONSULTANT's possession. All records stored electronically by the CONSULTANT 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.

22.2 The failure of CONSULTANT to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement, for which, the CITY may terminate the Agreement in accordance with the terms herein.

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

CITY CLERK
601 CITY CENTER WAY, 4th FLOOR
PEMBROKE PINES, FL 33025
(954) 450-1050
mgraham@ppines.com

ARTICLE 23
MISCELLANEOUS

23.1 **Ownership of Documents.** Reports, surveys, plans, studies and other data provided in connection with this Agreement are and shall remain the property of CITY whether or not the project for which they are made is completed. CITY hereby agrees to use CONSULTANT's work product for its intended purposes.

23.2 **Records.** CONSULTANT shall keep such records and accounts and require any and all subcontractors to keep records and accounts as may be necessary in order to record complete and correct entries as to personnel hours charged to this engagement, and any expenses for which CONSULTANT expects to be reimbursed. Such books and records will be available at all reasonable times for examination and audit by CITY and shall be kept for a period of ten (10) years after the completion of all work to be performed pursuant to this Agreement. Incomplete or incorrect entries in such books and records will be grounds for disallowance by CITY of any fees or expenses based upon such entries. All records shall be maintained and available for disclosure, as appropriate, in accordance with Chapter 119, Florida Statues.

23.3 **Assignments; Amendments.** This Agreement, and any interests herein, shall not be assigned, transferred or otherwise encumbered, under any circumstances, by CONSULTANT without the prior written consent of CITY. For purposes of this Agreement, any change of ownership of CONSULTANT shall constitute an assignment which requires CITY approval. However, this Agreement shall run to the benefit of CITY and its successors and assigns.

It is further agreed that no modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

23.4 **No Contingent Fees.** CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONSULTANT to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONSULTANT any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, CITY shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.

23.5 **Notice.** Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for giving of notice shall remain such until they shall have been changed by written notice in compliance with the provisions of this section. For the present, CONSULTANT and CITY designate the following as the respective places for giving of notice:

CITY	Charles F. Dodge, City Manager City of Pembroke Pines 601 City Center Way Pembroke Pines, Florida 33025 Telephone No. (954) 450-1040
Copy To:	Samuel S. Goren, City Attorney Goren, Cherof, Doody & Ezrol, P.A. 3099 East Commercial Boulevard, Suite 200 Fort Lauderdale, Florida 33308 Telephone No. (954) 771-4500 Facsimile No. (954) 771-4923
CONSULTANT	**«Vendor_Contact_Title»** **«Vendor_Name»** **«Vendor_Address_Line_1»** **«Vendor_Address_Line_2»** **E-mail: «Vendor_Email»** **Telephone No: «Vendor_Phone_Number»** **Cell phone No: «Vendor_Cell_Number»** **Facsimile No: «Vendor_Fax_Number»**

23.6 **Binding Authority.** Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions

contained in this Agreement.

23.7 **Headings.** Headings herein are for convenience of reference only and shall not be considered on any interpretation of this Agreement.

23.8 **Exhibits.** Each exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits if not physically attached should be treated as part of this Agreement and are incorporated herein by reference.

23.9 **Severability.** If any provision of this Agreement or application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.

23.10 **Extent of Agreement.** This Agreement represents the entire and integrated agreement between the CITY and the CONSULTANT and supersedes all prior negotiations, representations or agreements, either written or oral.

23.11 **Legal Representation.** It is acknowledged that each party was represented by counsel in the preparation of and contributed equally to the terms and conditions of this Agreement and, accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply herein due to the joint contributions of both Parties.

23.12 **Counterparts and Execution.** This Agreement may be executed in multiple originals or counterparts, each of which shall be deemed to be an original and together shall constitute one and the same agreement. Execution and delivery of this Agreement by the Parties shall be legally binding, valid and effective upon delivery of the executed documents to the other party through facsimile transmission, email, or other electronic delivery.

23.13 **Third Parties**. The services to be performed by the CONSULTANT are intended solely for the benefit of the CITY. No person or entity not a signatory to this Agreement shall be entitled to rely on the CONSULTANT's performance of its services hereunder, and no right to assert a claim against the CONSULTANT by assignment of indemnity rights or otherwise shall accrue to a third party as a result of this Agreement or the performance of the CONSULTANT's services hereunder.

23.14 PURSUANT TO SECTION 558.0035, FLORIDA STATUTES, AN INDIVIDUAL EMPLOYEE OR AGENT OF THE CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR ECONOMIC DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT IF THE CONDITIONS OF SECTION 558.0035, F.S., as amended from time to time, ARE SATISFIED.

23.15 **Scrutinized Companies.** CONSULTANT, its principals or owners, certify that they are not listed on the Scrutinized Companies that Boycott Israel List, Scrutinized Companies with Activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is engaged in business operations with Syria. In accordance with Section 287.135, Florida Statutes, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with any agency or local governmental entity for goods or services if:

23.15.1 Any amount of, at the time bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel; or

23.15.2 One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:

23.15.2.1 Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, Florida Statutes; or

23.15.2.2 Is engaged in business operations in Syria.

23.16 **No Waiver of Sovereign Immunity**. Nothing contained herein is intended nor shall be construed to waive the CITY's rights and immunities under the common law of Section 768.28, Florida Statutes, as may be amended from time to time.

23.17 **Attorneys' Fees.** In the event that either party brings suit for enforcement of this Agreement, each party shall bear its own attorney's fees and court costs, except as otherwise provided under the indemnification provisions set forth herein above.

23.18 **Protection of CITY Property**. At all times during performance of this Agreement, CONSULTANT shall protect the CITY's property from all damage whatsoever on account of the work being carried on under this Agreement.

23.19 **Domestic Partnership.**

23.19.1 CONSULTANT certifies that it is aware of the requirements of Section 35.39 of the CITY's Code of Ordinances and certifies that (**check only one box below)**:

☐ CONSULTANT currently complies with the requirements of Section 35.39 of the CITY's Code of Ordinances; or
☐ CONSULTANT will comply with the conditions of Section 35.39 of the CITY's Code of Ordinances; or
☐ CONSULTANT will not comply with the conditions of Section 35.39 of the CITY's Code of Ordinances; or

☐ CONSULTANT does not comply with the conditions of Section 35.39 of the CITY's Code of Ordinances because of the following allowable exemption **(check only box below)**:

- ☐ CONSULTANT does not provide benefits to employees' spouses in traditional marriages; or
- ☐ CONSULTANT provides an employee the cash equivalent of benefits because CONSULTANT is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, CONSULTANT shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Case equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The case equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse; or
- ☐ CONSULTANT is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated, supervised, or controlled by or in conjunction with a religious organization, association, or society; or
- ☐ CONSULTANT is a governmental agency.

23.19.2 Except where federal or state law mandates to the contrary, a contractor awarded a contract pursuant to a competitive solicitation shall provide benefits to Domestic Partners and spouses of its employees, irrespective of gender, on the same basis as it provides benefits to employees' spouses in traditional marriages.

23.19.3 CONSULTANT shall provide the City Manager and his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this Article, and upon request shall provide evidence that the CONSULTANT is in compliance with the provisions of this Article upon the renewal of this AGREEMENT or when the City Manager or his/her designee receives a complaint or has reason to believe CONSULTANT may not be in compliance with the provisions of this Article. Records shall include but not be limited to providing the City Manager and his/her designee with certified copies of CONSULTANT's records pertaining to its benefits policies and its employment policies and practices.

23.19.4 CONSULTANT must conspicuously make available to all employees and applicants for employment the following statement:

> **"During the performance of a contract with the City of Pembroke Pines, Florida, the CONSULTANT will provide Equal Benefits to its employees with spouses, as defined by Section 35.39 of the City of**

Pembroke Pines Code of Ordinances, and its employees with Domestic Partners and all Married Couples".

The above statement must also include a contact telephone number and email address for the CITY which will be provided to each contractor when a covered contract is executed.

23.19.5 By executing this Agreement, CONSULTANT certifies that it agrees to comply with the above and Section 35.39 of the City of Pembroke Pines Code of Ordinances, as may be amended from time to time.

THE REMAINDER OF THIS PAGE

HAS BEEN INTENTIONALLY LEFT BLANK

IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY:

CITY OF PEMBROKE PINES, FLORIDA

ATTEST:

_____ By: _____

MARLENE D. GRAHAM, CITY CLERK CHARLES F. DODGE, CITY MANAGER

APPROVED AS TO FORM:

_____

Name: _____

OFFICE OF THE CITY ATTORNEY

CONSULTANT:

«Vendor_Name_Upper_Case»

By: _____

Name: _____

Title: _____

STATE OF _____)

COUNTY OF _____)

BEFORE ME, an officer duly authorized by law to administer oaths and take acknowledgments, personally appeared _____ as _____ of **«Vendor_Name»**, a company authorized to conduct business in the State of Florida, and acknowledged execution of the foregoing Agreement as the proper official of **«Vendor_Name»** for the use and purposes mentioned in it and affixed the official seal of the corporation, and that the instrument is the act and deed of that corporation.

IN WITNESS OF THE FOREGOING, I have set my hand and official seal at in the State and County aforesaid on this _____day of _____, **«Contract_Signature_Year»**.

_____

NOTARY PUBLIC

_____

(Name of Notary Typed, Printed or Stamped)

REFERENCES FORM

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

Reference Contact Information:

Name of Firm, City, County or Agency:

Address:

City/State/Zip:

Contact Name: Title:

E-Mail Address:

Telephone: Fax:

Project Information:

Name of Contractor Performing the work:

Name and location of the project:

Nature of the firm's responsibility on the project:

Project duration: Completion (Anticipated) Date:

Size of project: Cost of project:

Work for which staff was responsible:

Contract Type:

The results/deliverables of the project:

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Name and location of the project:

Nature of the firm's responsibility on the project:

Project duration: Completion (Anticipated) Date:

Size of project: Cost of project:

Work for which staff was responsible:

Contract Type:

The results/deliverables of the project:

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Address:

City/State/Zip:

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E-Mail Address:

Telephone: Fax:

Project Information:

Name of Contractor Performing the work:

Name and location of the project:

Nature of the firm's responsibility on the project:

Project duration: Completion (Anticipated) Date:

Size of project: Cost of project:

Work for which staff was responsible:

Contract Type:

The results/deliverables of the project:

ARCHITECT-ENGINEER QUALIFICATIONS

OMB Control Number: 9000-0157
Expiration Date: 12/31/2020

Paperwork Reduction Act Statement - This information collection meets the requirements of 44 USC § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0157. We estimate that it will take 29 hours (25 hours for part 1 and 4 hours for Part 2) to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.

PURPOSE

Federal agencies use this form to obtain information from architect-engineer (A-E) firms about their professional qualifications. Federal agencies select firms for A-E contracts on the basis of professional qualifications as required by 40 U.S.C. chapter 11, Selection of Architects Engineers, and Part 36 of the Federal Acquisition Regulation (FAR).

The Selection of Architects and Engineers statute requires the public announcement of requirements for A-E services (with some exceptions provided by other statutes), and the selection of at least three of the most highly qualified firms based on demonstrated competence and professional qualifications according to specific criteria published in the announcement. The Act then requires the negotiation of a contract at a fair and reasonable price starting first with the most highly qualified firm.

The information used to evaluate firms is from this form and other sources, including performance evaluations, any additional data requested by the agency, and interviews with the most highly qualified firms and their references.

GENERAL INSTRUCTIONS

Part I presents the qualifications for a specific contract.

Part II presents the general qualifications of a firm or a specific branch office of a firm. Part II has two uses:

1. An A-E firm may submit Part II to the appropriate central, regional or local office of each Federal agency to be kept on file. A public announcement is not required for certain contracts, and agencies may use Part II as a basis for selecting at least three of the most highly qualified firms for discussions prior to requesting submission of Part I. Firms are encouraged to update Part II on file with agency offices, as appropriate, according to FAR Part 36. If a firm has branch offices, submit a separate Part II for each branch office seeking work.

2. Prepare a separate Part II for each firm that will be part of the team proposed for a specific contract and submitted with Part I. If a firm has branch offices, submit a separate Part II for each branch office that has a key role on the team.

INDIVIDUAL AGENCY INSTRUCTIONS

Individual agencies may supplement these instructions. For example, they may limit the number of projects or number of pages submitted in Part I in response to a public announcement for a particular project. Carefully comply with any agency instructions when preparing and submitting this form. Be as concise as possible and provide only the information requested by the agency.

DEFINITIONS

Architect-Engineer Services: Defined in FAR 2.101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in FAR 36.102.

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS

Part I - Contract-Specific Qualifications

Section A. Contract Information.

1. Title and Location. Enter the title and location of the contract for which this form is being submitted, exactly as shown in the public announcement or agency request.

2. Public Notice Date. Enter the posted date of the agency's notice on the Federal Business Opportunity website (FedBizOpps), other form of public announcement or agency request for this contract.

3. Solicitation or Project Number. Enter the agency's solicitation number and/or project number, if applicable, exactly as shown in the public announcement or agency request for this contract.

Section B. Architect-Engineer Point of Contact.

4-8. Name, Title, Name of Firm, Telephone Number, Fax (Facsimile) Number and E-mail (Electronic Mail) Address. Provide information for a representative of the prime contractor or joint venture that the agency can contact for additional information.

Section C. Proposed Team.

9-11. Firm Name, Address, and Role in This Contract. Provide the contractual relationship, name, full mailing address, and a brief description of the role of each firm that will be involved in performance of this contract. List the prime contractor or joint venture partners first. If a firm has branch offices, indicate each individual branch office that will have a key role on the team. The named subcontractors and outside associates or consultants must be used, and any change must be approved by the contracting officer. (See FAR Part 52 Clause "Subcontractors and Outside Associates and Consultants (Architect-Engineer Services)"). Attach an additional sheet in the same format as Section C if needed.

Section D. Organizational Chart of Proposed Team.

As an attachment after Section C, present an organizational chart of the proposed team showing the names and roles of all key personnel listed in Section E and the firm they are associated with as listed in Section C.

Section E. Resumes of Key Personnel Proposed for this Contract.

Complete this section for each key person who will participate in this contract. Group by firm, with personnel of the prime contractor or joint venture partner firms first. The following blocks must be completed for each resume:

12. Name. Self-explanatory.

13. Role in this contract. Self-explanatory.

14. Years Experience. Total years of relevant experience (block 14a), and years of relevant experience with current firm, but not necessarily the same branch office (block 14b).

15. Firm Name and Location. Name, city and state of the firm where the person currently works, which must correspond with one of the firms (or branch office of a firm, if appropriate) listed in Section C.

16. Education. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.

17. Current Professional Registration. Provide information on current relevant professional registration(s) in a State or possession of the United States, Puerto Rico, or the District of Columbia according to FAR Part 36.

18. Other Professional Qualifications. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.

19. Relevant Projects. Provide information on up to five projects in which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section F for the project team if the person was not involved in any of those projects or the person worked on other projects that were more relevant than the team projects in Section F. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role (block (3)).

Section F. Example Projects Which Best Illustrate Proposed Team's Qualifications for this Contract.

Select projects where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section F for each project. Present ten projects, unless otherwise specified by the agency. Complete the following blocks for each project:

20. Example Project Key Number. Start with "1" for the first project and number consecutively.

21. Title and Location. Title and location of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.

22. Year Completed. Enter the year completed of the professional services (such as planning, engineering study, design, or surveying), and/or the year completed of construction, if applicable. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to this Contract (block 24).

23a. Project Owner. Project owner or user, such as a government agency or installation, an institution, a corporation or private individual.

23b. Point of Contact Name. Provide name of a person associated with the project owner or the organization which contracted for the professional services, who is very familiar with the project and the firm's (or firms') performance.

23c. Point of Contact Telephone Number. Self-explanatory.

24. Brief Description of Project and Relevance to this Contract. Indicate scope, size, cost, principal elements and special features of the project. Discuss the relevance of the example project to this contract. Enter any other information requested by the agency for each example project.

25. Firms from Section C Involved with this Project. Indicate which firms (or branch offices, if appropriate) on the project team were involved in the example project, and their roles. List in the same order as Section C.

Section G. Key Personnel Participation in Example Projects.

This matrix is intended to graphically depict which key personnel identified in Section E worked on the example projects listed in Section F. Complete the following blocks (see example below).

26. and 27. Names of Key Personnel and Role in this Contract. List the names of the key personnel and their proposed roles in this contract in the same order as they appear in Section E.

28. Example Projects Listed in Section F. In the column under each project key number (see block 29) and for each key person, place an "X" under the project key number for participation in the same or similar role.

29. Example Projects Key. List the key numbers and titles of the example projects in the same order as they appear in Section F.

Section H. Additional Information.

30. Use this section to provide additional information specifically requested by the agency or to address selection criteria that are not covered by the information provided in Sections A-G.

Section I. Authorized Representative.

31. and 32. Signature of Authorized Representative and Date. An authorized representative of a joint venture or the prime contractor must sign and date the completed form. Signing attests that the information provided is current and factual, and that all firms on the proposed team agree to work on the project. Joint ventures selected for negotiations must make available a statement of participation by a principal of each member of the joint venture.

33. Name and Title. Self-explanatory.

SAMPLE ENTRIES FOR SECTION G *(MATRIX)*

26. NAMES OF KEY PERSONNEL *(From Section E, Block 12)*	27. ROLE IN THIS CONTRACT *(From Section E, Block 13)*	28. EXAMPLE PROJECTS LISTED IN SECTION F *(Fill in "Example Projects Key" section below first, before completing table. Place "X" under project key number for participation in same or similar role.)*									
		1	2	3	4	5	6	7	8	9	10
Jane A. Smith	Chief Architect	X		X							
Joseph B. Williams	Chief Mechanical Engineer	X	X	X	X						
Tara C. Donovan	Chief Electricial Engineer	X	X		X						

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT *(From Section F)*	NUMBER	TITLE OF EXAMPLE PROJECT *(From Section F)*
1	Federal Courthouse, Denver, CO	6	XYZ Corporation Headquarters, Boston, MA
2	Justin J. Wilson Federal Building, Baton Rouge, LA	7	Founder's Museum, Newport, RI

Part II - General Qualifications

See the "**General Instructions**" on page 1 for firms with branch offices. Prepare Part II for the specific branch office seeking work if the firm has branch offices.

1. Solicitation Number. If Part II is submitted for a specific contract, insert the agency's solicitation number and/or project number, if applicable, exactly as shown in the public announcement or agency request.

2a-2e. Firm (or Branch Office) Name and Address. Self-explanatory.

3. Year Established. Enter the year the firm (or branch office, if appropriate) was established under the current name.

4. Unique Entity Identifier. Insert the unique entity identifier issued by the entity designated at SAM. See FAR part 4.6.

5. Ownership.

a. Type. Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).

b. Small Business Status. Refer to the North American Industry Classification System (NAICS) code in the public announcement, and indicate if the firm is a small business according to the current size standard for that NAICS code (for example, Engineering Services (part of NAICS 541330), Architectural Services (NAICS 541310), Surveying and Mapping Services (NAICS 541370)). The small business categories and the internet website for the NAICS codes appear in FAR part 19. Contact the requesting agency for any questions. Contact your local U.S. Small Business Administration office for any questions regarding Business Status.

6a-6c. Point of Contact. Provide this information for a representative of the firm that the agency can contact for additional information. The representative must be empowered to speak on contractual and policy matters.

7. Name of Firm. Enter the name of the firm if Part II is prepared for a branch office.

8a-8c. Former Firm Names. Indicate any other previous names for the firm (or branch office) during the last six years. Insert the year that this corporate name change was effective and the associated unique entity identifier. This information is used to review past performance on Federal contracts.

9. Employees by Discipline. Use the relevant disciplines and associated function codes shown at the end of these instructions and list in the same numerical order. After the listed disciplines, write in any additional disciplines and leave the function code blank. List no more than 20 disciplines. Group remaining employees under "Other Employees" in column b. Each person can be counted only once according to his/her primary function. If Part II is prepared for a firm (including all branch offices), enter the number of employees by disciplines in column c(1). If Part II is prepared for a branch office, enter the number of employees by discipline in column c(2) and for the firm in column c(1).

10. Profile of Firm's Experience and Annual Average Revenue for Last 5 Years. Complete this block for the firm or branch office for which this Part II is prepared. Enter the experience categories which most accurately reflect the firm's technical capabilities and project experience. Use the relevant experience categories and associated profile codes shown at the end of these instructions, and list in the same numerical order. After the listed experience categories, write in any unlisted relevant project experience categories and leave the profile codes blank. For each type of experience, enter the appropriate revenue index number to reflect the professional services revenues received annually (averaged over the last 5 years) by the firm or branch office for performing that type of work. A particular project may be identified with one experience category or it may be broken into components, as best reflects the capabilities and types of work performed by the firm. However, do not double count the revenues received on a particular project.

11. Annual Average Professional Services Revenues of Firm for Last 3 Years. Complete this block for the firm or branch office for which this Part II is prepared. Enter the appropriate revenue index numbers to reflect the professional services revenues received annually (averaged over the last 3 years) by the firm or branch office. Indicate Federal work (performed directly for the Federal Government, either as the prime contractor or subcontractor), non-Federal work (all other domestic and foreign work, including Federally-assisted projects), and the total. If the firm has been in existence for less than 3 years, see the definition for "Annual Receipts" under FAR 19.101.

12. Authorized Representative. An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines *(Function Codes)*

Code	Description	Code	Description
01	Acoustical Engineer	32	Hydraulic Engineer
02	Administrative	33	Hydrographic Surveyor
03	Aerial Photographer	34	Hydrologist
04	Aeronautical Engineer	35	Industrial Engineer
05	Archeologist	36	Industrial Hygienist
06	Architect	37	Interior Designer
07	Biologist	38	Land Surveyor
08	CADD Technician	39	Landscape Architect
09	Cartographer	40	Materials Engineer
10	Chemical Engineer	41	Materials Handling Engineer
11	Chemist	42	Mechanical Engineer
12	Civil Engineer	43	Mining Engineer
13	Communications Engineer	44	Oceanographer
14	Computer Programmer	45	Photo Interpreter
15	Construction Inspector	46	Photogrammetrist
16	Construction Manager	47	Planner: Urban/Regional
17	Corrosion Engineer	48	Project Manager
18	Cost Engineer/Estimator	49	Remote Sensing Specialist
19	Ecologist	50	Risk Assessor
20	Economist	51	Safety/Occupational Health Engineer
21	Electrical Engineer	52	Sanitary Engineer
22	Electronics Engineer	53	Scheduler
23	Environmental Engineer	54	Security Specialist
24	Environmental Scientist	55	Soils Engineer
25	Fire Protection Engineer	56	Specifications Writer
26	Forensic Engineer	57	Structural Engineer
27	Foundation/Geotechnical Engineer	58	Technician/Analyst
28	Geodetic Surveyor	59	Toxicologist
29	Geographic Information System Specialist	60	Transportation Engineer
30	Geologist	61	Value Engineer
31	Health Facility Planner	62	Water Resources Engineer

List of Experience Categories *(Profile Codes)*

Code	Description
A01	Acoustics, Noise Abatement
A02	Aerial Photography; Airborne Data and Imagery Collection and Analysis
A03	Agricultural Development; Grain Storage; Farm Mechanization
A04	Air Pollution Control
A05	Airports; Navaids; Airport Lighting; Aircraft Fueling
A06	Airports; Terminals and Hangars; Freight Handling
A07	Arctic Facilities
A08	Animal Facilities
A09	Anti-Terrorism/Force Protection
A10	Asbestos Abatement
A11	Auditoriums & Theaters
A12	Automation; Controls; Instrumentation
B01	Barracks; Dormitories
B02	Bridges
C01	Cartography
C02	Cemeteries *(Planning & Relocation)*
C03	Charting: Nautical and Aeronautical
C04	Chemical Processing & Storage
C05	Child Care/Development Facilities
C06	Churches; Chapels
C07	Coastal Engineering
C08	Codes; Standards; Ordinances
C09	Cold Storage; Refrigeration and Fast Freeze
C10	Commercial Building *(low rise)* ; Shopping Centers
C11	Community Facilities
C12	Communications Systems; TV; Microwave
C13	Computer Facilities; Computer Service
C14	Conservation and Resource Management
C15	Construction Management
C16	Construction Surveying
C17	Corrosion Control; Cathodic Protection; Electrolysis
C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting
C19	Cryogenic Facilities
D01	Dams *(Concrete; Arch)*
D02	Dams *(Earth; Rock);* Dikes; Levees
D03	Desalinization *(Process & Facilities)*
D04	Design-Build **-** Preparation of Requests for Proposals
D05	Digital Elevation and Terrain Model Development
D06	Digital Orthophotography
D07	Dining Halls; Clubs; Restaurants
D08	Dredging Studies and Design

Code	Description
E01	Ecological & Archeological Investigations
E02	Educational Facilities; Classrooms
E03	Electrical Studies and Design
E04	Electronics
E05	Elevators; Escalators; People-Movers
E06	Embassies and Chanceries
E07	Energy Conservation; New Energy Sources
E08	Engineering Economics
E09	Environmental Impact Studies, Assessments or Statements
E10	Environmental and Natural Resource Mapping
E11	Environmental Planning
E12	Environmental Remediation
E13	Environmental Testing and Analysis
F01	Fallout Shelters; Blast-Resistant Design
F02	Field Houses; Gyms; Stadiums
F03	Fire Protection
F04	Fisheries; Fish ladders
F05	Forensic Engineering
F06	Forestry & Forest products
G01	Garages; Vehicle Maintenance Facilities; Parking Decks
G02	Gas Systems (Propane; Natural, Etc.)
G03	Geodetic Surveying: Ground and Air-borne
G04	Geographic Information System Services: Development, Analysis, and Data Collection
G05	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting
G06	Graphic Design
H01	Harbors; Jetties; Piers, Ship Terminal Facilities
H02	Hazardous Materials Handling and Storage
H03	Hazardous, Toxic, Radioactive Waste Remediation
H04	Heating; Ventilating; Air Conditioning
H05	Health Systems Planning
H06	Highrise; Air-Rights-Type Buildings
H07	Highways; Streets; Airfield Paving; Parking Lots
H08	Historical Preservation
H09	Hospital & Medical Facilities
H10	Hotels; Motels
H11	Housing *(Residential, Multi-Family; Apartments; Condominiums)*
H12	Hydraulics & Pneumatics
H13	Hydrographic Surveying

List of Experience Categories *(Profile Codes continued)*

Code	Description
I01	Industrial Buildings; Manufacturing Plants
I02	Industrial Processes; Quality Control
I03	Industrial Waste Treatment
I04	Intelligent Transportation Systems
I05	Interior Design; Space Planning
I06	Irrigation; Drainage
J01	Judicial and Courtroom Facilities
L01	Laboratories; Medical Research Facilities
L02	Land Surveying
L03	Landscape Architecture
L04	Libraries; Museums; Galleries
L05	Lighting (Interior; Display; Theater, Etc.)
L06	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)
M01	Mapping Location/Addressing Systems
M02	Materials Handling Systems; Conveyors; Sorters
M03	Metallurgy
M04	Microclimatology; Tropical Engineering
M05	Military Design Standards
M06	Mining & Mineralogy
M07	Missile Facilities (Silos; Fuels; Transport)
M08	Modular Systems Design; Pre-Fabricated Structures or Components
N01	Naval Architecture; Off-Shore Platforms
N02	Navigation Structures; Locks
N03	Nuclear Facilities; Nuclear Shielding
O01	Office Buildings; Industrial Parks
O02	Oceanographic Engineering
O03	Ordnance; Munitions; Special Weapons
P01	Petroleum Exploration; Refining
P02	Petroleum and Fuel (Storage and Distribution)
P03	Photogrammetry
P04	Pipelines (Cross-Country - Liquid & Gas)
P05	Planning (Community, Regional, Areawide and State)
P06	Planning (Site, Installation, and Project)
P07	Plumbing & Piping Design
P08	Prisons & Correctional Facilities
P09	Product, Machine Equipment Design
P10	Pneumatic Structures, Air-Support Buildings
P11	Postal Facilities
P12	Power Generation, Transmission, Distribution
P13	Public Safety Facilities
R01	Radar; Sonar; Radio & Radar Telescopes
R02	Radio Frequency Systems & Shieldings
R03	Railroad; Rapid Transit
R04	Recreation Facilities (Parks, Marinas, Etc.)
R05	Refrigeration Plants/Systems
R06	Rehabilitation (Buildings; Structures; Facilities)
R07	Remote Sensing
R08	Research Facilities
R09	Resources Recovery; Recycling
R10	Risk Analysis
R11	Rivers; Canals; Waterways; Flood Control
R12	Roofing
S01	Safety Engineering; Accident Studies; OSHA Studies
S02	Security Systems; Intruder & Smoke Detection
S03	Seismic Designs & Studies
S04	Sewage Collection, Treatment and Disposal
S05	Soils & Geologic Studies; Foundations
S06	Solar Energy Utilization
S07	Solid Wastes; Incineration; Landfill
S08	Special Environments; Clean Rooms, Etc.
S09	Structural Design; Special Structures
S10	Surveying; Platting; Mapping; Flood Plain Studies
S11	Sustainable Design
S12	Swimming Pools
S13	Storm Water Handling & Facilities
T01	Telephone Systems *(Rural; Mobile; Intercom, Etc.)*
T02	Testing & Inspection Services
T03	Traffic & Transportation Engineering
T04	Topographic Surveying and Mapping
T05	Towers *(Self-Supporting & Guyed Systems)*
T06	Tunnels & Subways

List of Experience Categories *(Profile Codes continued)*

Code	Description
U01	Unexploded Ordnance Remediation
U02	Urban Renewals; Community Development
U03	Utilities (Gas and Steam)
V01	Value Analysis; Life-Cycle Costing
W01	Warehouses & Depots
W02	Water Resources; Hydrology; Ground Water
W03	Water Supply; Treatment and Distribution
W04	Wind Tunnels; Research/Testing Facilities Design
Z01	Zoning; Land Use Studies

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

5. NAME OF FIRM

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check) PRIME	J-V PARTNER	SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.				☐ CHECK IF BRANCH OFFICE		
b.				☐ CHECK IF BRANCH OFFICE		
c.				☐ CHECK IF BRANCH OFFICE		
d.				☐ CHECK IF BRANCH OFFICE		
e.				☐ CHECK IF BRANCH OFFICE		
f.				☐ CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ☐ *(Attached)*

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM

15. FIRM NAME AND LOCATION *(City and State)*

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
a.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
b.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
c.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
d.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	
	(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
e.	(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE	☐ Check if project performed with current firm	

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*		20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.			
b.			
c.			
d.			
e.			
f.			

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL *(From Section E, Block 12)*	27. ROLE IN THIS CONTRACT *(From Section E, Block 13)*	28. EXAMPLE PROJECTS LISTED IN SECTION F *(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)*									
		1	2	3	4	5	6	7	8	9	10

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT *(From Section F)*	NUMBER	TITLE OF EXAMPLE PROJECT *(From Section F)*
1		6	
2		7	
3		8	
4		9	
5		10	

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE

33. NAME AND TITLE

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (*or Branch Office*) NAME		3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
2b. STREET		5. OWNERSHIP	
2c. CITY	2d. STATE / 2e. ZIP CODE	a. TYPE	
		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE		7. NAME OF FIRM *(If Block 2a is a Branch Office)*	
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS		

8a. FORMER FIRM NAME(S) *(If any)*	8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees (1) FIRM	c. Number of Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
	Other Employees					
	Total					

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS *(Insert revenue index number shown at right)*	
a. Federal Work	
b. Non-Federal Work	
c. Total Work	

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

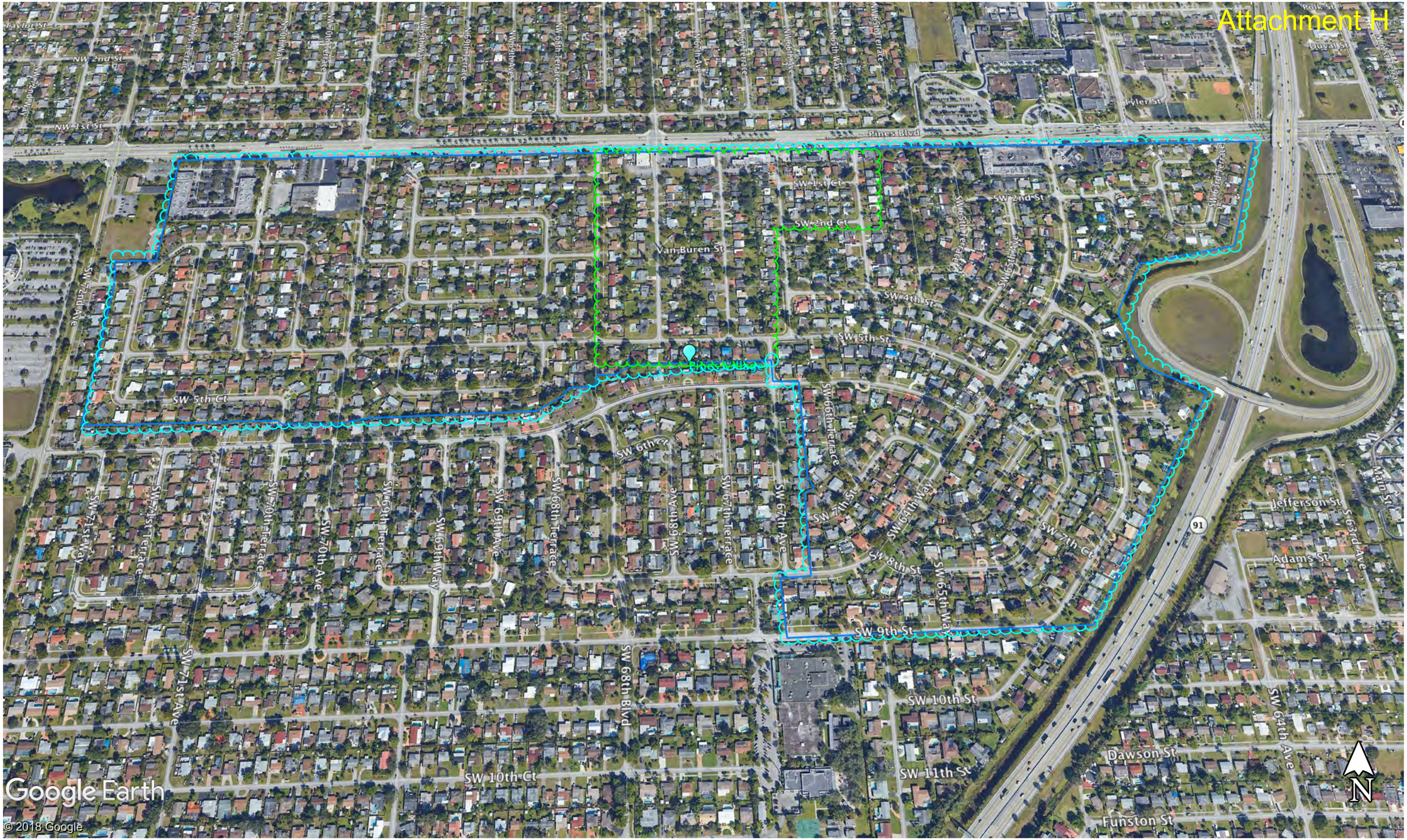
1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. DATE
c. NAME AND TITLE	

Attachment H



BCTED REF #180502060

PINES VILLAGE WATER MAIN REPLACEMENT

PROJECT No: 91-0134.1

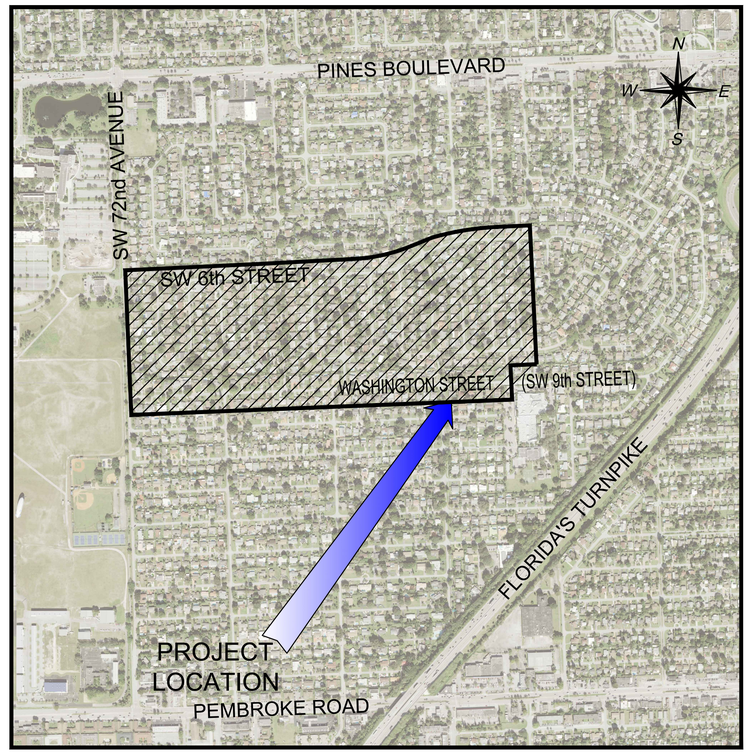
91-0134_PINES VILLAGE_C-COVR.dwg

PHASE 1

PEMBROKE PINES, FLORIDA

Sheet List Table

Sheet Number	Sheet Title
G1	COVER
G2	LEGEND AND ABBREVIATIONS
G3	GENERAL NOTES AND SPECIFICATIONS
K1	KEY MAP
WM1	PROPOSED WATER MAIN PLAN
WM2	PROPOSED WATER MAIN PLAN
WM3	PROPOSED WATER MAIN PLAN
WM4	PROPOSED WATER MAIN PLAN
WM5	PROPOSED WATER MAIN PLAN
WM6	PROPOSED WATER MAIN PLAN
WM7	PROPOSED WATER MAIN PLAN
WM8	PROPOSED WATER MAIN PLAN
WM9	PROPOSED WATER MAIN PLAN
WM10	PROPOSED WATER MAIN PLAN
WM11	PROPOSED WATER MAIN PLAN
WM12	WATER DETAILS
WM13	WATER DETAILS
WM14	WATER DETAILS
SWP1	STORMWATER POLLUTION PREVENTION PLAN
SWP2	STORMWATER POLLUTION PREVENTION NOTES
PMS1	PAVEMENT MARKING AND SIGNAGE KEY MAP
PMS2	PAVEMENT MARKING AND SIGNAGE PLAN
PMS3	PAVEMENT MARKING AND SIGNAGE PLAN
PMS4	PAVEMENT MARKING AND SIGNAGE PLAN
PMS5	PAVEMENT MARKING AND SIGNAGE DETAILS



LOCATION MAP

Scale: 1" = 600'

GREAT SEAL OF THE CITY OF PEMBROKE PINES FLORIDA

JOIN US PROGRESS WITH US

CITY OFFICIALS

MAYOR:	FRANK C. ORTIS
VICE MAYOR:	THOMAS GOOD, JR.
COMMISSIONERS:	ANGELO CASTILLO
	JAY D. SCHWARTZ
	IRIS A. SIPLE
CITY MANAGER:	CHARLES F. DODGE

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLINKER SIGNS(TYPICAL), RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLINKERS SIGNS (TYPICAL), RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGN AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

NOTES:

1. RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
2. AN ELECTRONIC CAD FILE WILL BE PROVIDED FOR SURVEY LAYOUT.

PERMITTING AGENCIES	DATE SUBMITTED	CGA INITIALS	DATE APPROVED	PERMIT NUMBER
CITY OF PEMBROKE PINES- DEPARTMENT OF ENGINEERING	-	-	-	-
CITY OF PEMBROKE PINES - UTILITIES DEPARTMENT	-	-	-	-
BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED)	4/30/2018	NK	-	-
BROWARD COUNTY HEALTH DEPARTMENT	5/08/2018	NK	-	-

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
2	07/11/18	ADDENDUM NO. 2	NWK				
1	07/10/18	ADDENDUM NO. 1	NWK				

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CURRENT REV No.: 02 - 07/11/18

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JULY 11, 2018

SHEET: G1

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-COVR.dwg – (Plotted by: Nicholas Kanelidis on Wednesday, July 11, 2018 10:46:58 AM)

ABBREVIATION LEGEND

ARV	AIR RELEASE VALVE
BE	BURIED ELECTRIC
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VAVLE
BM	BENCHMARK
BOP	BOTTOM OF PIPE
BSP	BACTERIOLOGICAL SAMPLING POINT
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
DE	DRAINAGE EASEMENT
DIP	DUCTILE IRON PIPE
E	EAST
EL	ELEVATION
EOW	EDGE OF WATER
EXIST	EXISTING
EXFILT	EXFILTRATION
FF EL	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
GALV	GALVANIZED
GV	GATE VALVE
HORZ	HORIZONTAL
INV	INVERT
JB	JUNCTION BOX
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
NTS	NOT TO SCALE
OE	OVERHEAD ELECTRIC
PCAP	PERFORATED CORRUGATED ALUMINUM PIPE
PRB	POLLUTION RETARDANT BAFFLE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCW	RECLAIMED WATER
RED	REDUCER
R/W	RIGHT-OF-WAY
S	SOUTH
SAN	SANITARY
SB	SOIL BORING
STA	STATION
TOB	TOP OF BANK
TOP	TOP OF PIPE
TYP	TYPICAL
UE	UTILITY EASEMENT
VERT	VERTICAL
W	WEST
WM	WATER MAIN

LINE TYPE LEGEND

- LOT LINE
- SECTION LINE
- R/W OR PROPERTY LINE
- CENTERLINE
- NVAL
- EXIST. CHAIN LINK FENCE
- GUARDRAIL
- PROPOSED CHAIN LINK FENCE
- EXISTING WOOD FENCE
- EXISTING PICKET FENCE
- TO BE DEMOLISHED
- xSSAN — EXISTING SANITARY SEWER
- xWM — EXISTING WATER MAIN
- xSTRM — EXISTING STORM SEWER
- xSFM — EXISTING FORCE MAIN
- x4FIRE — EXISTING FIRE MAIN
- xIRR — EXISTING IRRIGATION
- xOXY — EXISTING OXYGEN
- xFPL — EXISTING UNDERGROUND POWER
- xNGAS — EXISTING NATURAL GAS
- xCD — EXISTING CONDENSATION
- xBFO — EXISTING BURIED FIBER OPTIC
- xCOMCAST — EXISTING UNDERGROUND COMCAST
- xCH — EXISTING CHILLER
- xATT — EXISTING AT&T UNDERGROUND
- xFUEL — EXISTING FUEL LINE
- xOE — EXISTING OVERHEAD ELECTRIC
- xUGE — EXISTING UNDERGROUND ELECTRIC
- xUKN — EXISTING UNKNOWN UTILITY
- A6WMACP — ABANDONED 6" ACP WATER MAIN
- X12WMPVC — EXISTING 12" PVC WATER MAIN
- X2WMGSP — EXISTING 2" GALVANIZED STEEL PIPE
- X6WMACP — EXISTING 6" ACP PIPE
- X8WMPVC — EXISTING 8" PVC PIPE
- x2WMGSP — EXIST. 2" G.S. WM TO BE ABANDONED IN PLACE
- x6WMACP — EXIST. 6" ACP WM TO BE GROUTED AND ABANDONED IN PLACE
- x8WMPVC — EXIST. 8" PVC WM TO BE GROUTED AND ABANDONED IN PLACE

HATCHING LEGEND

- PROPOSED ASPHALT
- DETECTABLE WARNING
- EMERGENCY ACCESS
- CONCRETE
- GRAVEL/ WASH ROCK
- DRY RETENTION/GRASS AREA
- MILLING AND RESURFACING
- EXISTING BLDG.

PROPOSED SYMBOL LEGEND

- AIR RELEASE VALVE
- B.S.P. No. — BACTERIOLOGICAL SAMPLE POINT
- SINGLE WATER METER AND BOX
- DOUBLE WATER METER AND BOX
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- BACKFLOW PREVENTER
- DOUBLE DETECTOR CHECK VALVE
- BLOWOFF
- REDUCER
- GATE VALVE
- 90°, 45°, 22.5° & 11.25° BENDS
- TEE
- CROSS
- PLUG
- BLOWOFF
- VERTICAL BENDS
- SANITARY FLOW DIRECTION
- CLEAN OUT
- SINGLE SANITARY LATERAL
- DOUBLE SANITARY LATERAL
- A1 — CONFLICT ID
- DRAINAGE FLOW
- 0.00 — SPOT GRADE
- SIGN
- CATCH BASIN
- MANHOLE
- CLEANOUT
- SLOTTED DRAIN
- STORM YARD DRAIN
- P5 STORM INLET
- P6 STORM INLET
- EXFILTRATION TRENCH
- HEADWALL
- MITERED END – RCP
- MITERED END – HDPE
- HAY BALES
- ROCK BAGS W/ HAY BALES
- SILT BARRIER FENCE
- TURBIDITY BARRIER

EXISTING SYMBOL LEGEND

- GUY ANCHOR
- FPL — FPL MANHOLE
- CLP — CONC. LIGHT POLE
- CONC. UTILITY POLE
- CSP — CONC. SIGNAL POLE
- COMMUNICATION MH
- COMMUNICATION RISER
- CABLE TV MANHOLE
- CABLE TV RISER
- EHH — ELEC. HANDHOLE
- FPL TRANSFORMER
- GAS METER
- LIGHT POLE
- TRAFFIC CONTROL BOX
- WPP — WOOD POWER POLE
- GV — GAS VALVE
- SV — SEWER VALVE
- WV — WATER VALVE
- GATE VALVE
- CLEANOUT
- FIRE HYDRANT
- REDUCER
- IRRIGATION VALVE
- MANHOLE
- FIRE DEPARTMENT
- CATCH BASIN
- GROUND/LANDSCAPING LIGHTING
- SIGN
- WATER METER
- SB5 — SOFT DIG ID

PROJECT NOTES

1. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY AND GOVERNMENT AGENCY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES AND IS TO COORDINATE FIELD VISITS WITH UTILITY REPRESENTATIVE DURING CONSTRUCTION.
2. ANY DAMAGE BY THE CONTRACTOR TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED TO PRE–EXISTING CONDITIONS OR BETTER AT NO EXPENSE TO THE OWNER. THIS INCLUDES AREAS DISTURBED DURING THE INSTALLATION OF WATER SERVICES, INCLUDING BUT NO LIMITED TO SOD, LANDSCAPING, AND IRRIGATION.
3. THE LOCATIONS OF ALL UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
4. THE CONTRACTOR SHALL VERIFY IF OTHER UTILITIES NOT SHOWN IN THE PLANS EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD UTILITY CONFLICTS ARISE, THE CONTRACTOR SHALL INFORM THE ENGINEER, AND CORRESPONDING UTILITY COMPANY OF THE CONFLICT.
5. PRE–CONSTRUCTION VIDEO OF EXISTING CONDITIONS SHALL BE TAKEN BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREA WITH THE CITY AT LEAST 72 HOURS PRIOR TO USE. THE STAGING AREA SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE CITY.
7. ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF OFFSITE.
8. THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES, AS ESTABLISHED BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR ALL WORK.
9. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND COMPLY WITH THE PERMIT REQUIREMENTS BEFORE AND DURING CONSTRUCTION.
10. ALL QUESTIONS CONCERNING MATERIALS OR CONSTRUCTION METHODS SHALL BE DIRECTED TO THE ENGINEER.
11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS LINES.
12. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. NO RESIDENTIAL PROPERTY SHALL BE WITHOUT DRIVEWAY ACCESS FOR A PERIOD OF MORE THAN 4 HOURS.
13. CONTRACTOR MUST PROVIDE LATERAL SUPPORT FOR ALL EXISTING WATER MAINS AND MAINTAIN SOIL DEVELOPMENT EQUAL TO OR GREATER THAN EXISTING TO PREVENT WATER MAIN SEPARATION.
14. ALL EXISTING UTILITIES MH COVERS, ELECTRICAL BOXES, VALVE BOXES, METER BOXES, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL EMPLOY QUALIFIED ARBORIST TO REMOVE BRANCHES, AND TREAT ANY CUTS.
16. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING ALL EXISTING TREES BY USING 6' HIGH FLUORESCENT NYLON FENCING AS A TEMPORARY BARRIER. PRESERVED TREES SHALL BE BARRICADED BEFORE AND DURING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION ANY OF THE PROTECTED VEGETATION DIES, IT SHALL BE REPLACED AS REQUIRED BY THE LOCAL JURISDICTION BY THE CONTRACTOR WITH EQUAL SIZE AND CALIPER. THE TREES, WOODY SHRUBS (INCLUDING SAW PALMETTO'S) AND GROUND COVERS SHALL BE INCLUDED WITHIN THE PRESERVATION AREAS AND SHALL BE RETAINED. WHERE SUPPLEMENTAL LANDSCAPING INFRINGES ON THIS AREA, DISTURBANCE SHALL BE MINIMIZED.
17. COMPLETELY REMOVE BARRICADES WHEN CONSTRUCTION HAS PROGRESSED TO THE POINT THAT THEY ARE NO LONGER NEEDED.
18. CONTRACTOR SHALL NOTIFY THE CITY OF PEMBROKE PINES PUBLIC WORKS DEPARTMENT 14 DAYS PRIOR TO CONSTRUCTION.
19. CONTRACTOR SHALL USE SPECIAL CARE WHEN WORKING NEAR EXISTING CLAY SANITARY SEWER LINE. SEWER POINT REPAIRS SHALL BE REQUIRED WHENEVER A PROPOSED WATER MAIN CROSSES THE SEWER WITHIN 12 INCHES. COSTS SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN CONSTRUCTION AND INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR WATER MAIN.
20. SEWER LATERALS EXIST ON RESIDENTIAL STREETS AND BACKYARDS OF PROPERTY WITHIN THE PROJECT LIMITS. CONTRACTOR TO AVOID DAMAGING EXISTING SEWER LATERALS. IF DAMAGE OCCURS TO EXISTING SEWER LATERALS, CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST TO THE CITY.
21. CONTRACTOR IS TO RESTRAIN ALL WATER MAIN AND FORCE MAIN PIPE JOINTS AND FITTINGS USING MEGALUG MECHANICAL JOINT RESTRAINT OR APPROVED EQUAL.
22. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL EXISTING UTILITIES, IRRIGATION, CABLES, ETC., DISTURBED DURING CONSTRUCTION OF PROPOSED IMPROVEMENTS.
23. EXISTING WATER METERS ON PLANS ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION. CONTRACTOR TO INSTALL NEW METER BOXES AND APPURTENANCES.
24. CONTRACTOR SHALL REMOVE EACH EXISTING METER AND DELIVER TO THE CITY UTILITY DEPARTMENT AT 13975 PEMBROKE ROAD.
25. CONTRACTOR SHALL TAG EACH EXISTING METER WITH THE HOUSE ADDRESS AND THE NEW METER NUMBER PRIOR TO DELIVERY TO THE CITY.
26. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE FOR INDIVIDUAL HOUSE CONNECTIONS. CONTRACTOR MUST PERFORM A SITE INSPECTION PRIOR TO BID AND INCLUDE ALL NECESSARY LABOR AND APPURTENANCES REQUIRED FOR EACH HOUSE CONNECTION.
27. CONTRACTOR SHALL PROVIDE THEIR OWN VERTICAL CONTROL FOR CONSTRUCTION LAYOUT, RECORD DRAWING, RESTORATION, AND ALL OTHER CONSTRUCTION RELATED ACTIVITY.
28. DEPTHS TO EXISTING UTILITIES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES SHOWN, AND THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS OF ALL UTILITIES THAT MAY INTERFERE WITH THE WORK. ALL SUCH EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS SOON AS PRACTICABLE AFTER AWARD OF THE CONTRACT AND, IN ANY EVENT, A SUFFICIENT TIME IN ADVANCE OF CONSTRUCTION TO AVOID POSSIBLE DELAYS TO THE CONTRACTOR'S WORK. WHEN SUCH EXPLORATORY EXCAVATIONS SHOW THE UTILITY LOCATION AS SHOWN TO BE IN ERROR, THE CONTRACTOR SHALL SO NOTIFY THE ENGINEER IMMEDIATELY. THE NUMBER OF EXPLORATORY EXCAVATIONS REQUIRED SHALL BE THAT NUMBER WHICH IS SUFFICIENT TO DETERMINE THE ALIGNMENT AND GRADE OF THE UTILITY. EXCAVATIONS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION AND SHALL BE CONDUCTED AT THE CONTRACTOR'S EXPENSE.
29. A PLUMBING PERMIT IS REQUIRED TO BE SUBMITTED BY A LICENSED PLUMBING CONTRACTOR AS PER THE BROWARD COUNTY ADMINISTRATIVE PROVISIONS FOR THE 2017 FLORIDA BUILDING CODE, 6TH EDITION, SECTION 105.3.1.4.4.
30. AN APPROVED THERMAL EXPANSION CONTROL DEVICE IS REQUIRED TO BE INSTALLED AS PER FBC 2017, 6TH ED., RESIDENTIAL, SEC. P2903.
31. ROUGH INSPECTION: THE BURIAL DEPTH FOR THE WATER SUPPLY LINE IS REQUIRED TO BE A MINIMUM OF 12 INCH TO THE TOP OF THE WATER LINE WITH CLEAN BACKFILL AS PER FBC 2017, 6TH ED, RESIDENTIAL, SEC P26604.3. IF THE WATER LINE IS TRENCHED OR JUKED INTO THE EARTH, THE TRENCH MUST BE KEPT OPEN AT THE WATER METER / CHECK VALVE, HOUSE CONNECTION, ONE POINT IN BETWEEN AND AT ALL JOINTS FOR THE ROUGH INSPECTION. IF DIRECTIONAL BORE A COPY OF THE BURIAL DEPTH WILL NEED TO BE PROVIDED.
32. FINAL INSPECTION: ALL BACKFILL COMPLETED WITH SOD AND WATER SUPPLY LINE COMPLETED AS PER CODE.

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NO	DATE	REVISION	BY
1	07/10/18	ADDENDUM NO. 1	NWK

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

LEGEND AND ABBREVIATIONS

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JULY 10, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: G2

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-LGND_ABBR.dwg - (Plotted by: Nicholas Kanelidis on Monday, July 09, 2018 11:43:56 AM)

I. APPLICABLE CODES

A. GENERAL: ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF PEMBROKE PINES, BROWARD COUNTY DEPARTMENT OF PLANNING AND ENVIRONMENTAL PROTECTION (BCDPEP), BROWARD COUNTY HEALTH DEPARTMENT (BCHD), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.

B. CONSTRUCTION SAFETY: ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER. SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

C. TRENCH SAFETY ACT

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.

2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID.

A. A REFERENCE TO THE SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

3. WHERE A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2, TO THE ENGINEER PRIOR TO STARTING WORK.

II. PRECONSTRUCTION RESPONSIBILITY

A. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE THE CITY OF PEMBROKE PINES ENGINEERING AND COMMUNITY DEVELOPMENT DEPARTMENT, THE OWNER, AND THE ENGINEER, AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE ENGINEERING AND COMMUNITY DEVELOPMENT DEPARTMENT.

B. THE CONTRACTOR SHALL OBTAIN A "SUNSHINE CERTIFICATION NUMBER" AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS SUNSHINE CERTIFICATION NUMBER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

E. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, WHO WILL IN TURN NOTIFY THE CITY OF PEMBROKE PINES PUBLIC WORKS DEPARTMENT.

III. INSPECTIONS

THE CONTRACTOR SHALL NOTIFY THE CITY OF PEMBROKE PINES ENGINEERING AND COMMUNITY DEVELOPMENT DEPARTMENT (954-680-4475), AND THE ENGINEER OF RECORD AT LEAST 24 HOURS PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:

A. STORM DRAINAGE.
B. SANITARY SEWER.
C. WATER SYSTEM.
D. SUBGRADE: SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
E. LIMEROCK BASE: SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
F. ASPHALTIC CONCRETE.
G. FINAL.

IV. SHOP DRAWINGS

A. PRIOR TO ISSUANCE OF A CONSTRUCTION PERMIT, A MATERIAL LIST SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF PEMBROKE PINES FOR SANITARY MANHOLES, HYDRANTS, VALVES, PIPING, LIFT STATIONS AND OTHER ACCESSORIES. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS AND APPURTENANCES.

B. ANY PRODUCT THAT IS NOT ON THIS LIST MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD AND THE CITY OF PEMBROKE PINES. SUCH APPROVAL REQUIRES THE SUBMISSION OF A SHOP DRAWING FOR EACH PRODUCT. SHOP DRAWINGS WILL ALSO BE REQUIRED FOR ALL NON-STANDARD ITEMS.

C. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

V. TEMPORARY FACILITIES

A. TEMPORARY UTILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

2. OBTAIN CONSTRUCTION METER FOR ALL WATER USED ON JOB. ALL WATER USED FOR CLEANING, TESTING, ETC. WILL BE PAID FOR BY THE CONTRACTOR. IF WATER CAN NOT BE METERED THEN IT WILL BE CALCULATED.

B. TRAFFIC REGULATION:

1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD AND BCTED AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS WRITTEN PERMISSION OF THE CITY OF PEMBROKE PINES.

VI. PROJECT CLOSE OUT

A. CLEANING UP:

1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN.

2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR THE CITY OF PEMBROKE PINES, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY OR DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER, WATER COURSES, GRAVITY SEWER, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

4. WHEN WORKING IN AND AROUND EXISTING CANALS, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED AS REQUIRED BY THE CANAL OWNER.

B. PROJECT RECORD DOCUMENTS:

1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF ALL WORK ITEMS COMPLETED.

2. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDED A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.

3. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTOR.

4. ALL "AS-BUILT" INFORMATION ON ELEVATIONS, STATIONING OFFSETS AND TIES OF THE WATER, SANITARY SEWER, PAVING AND DRAINAGE SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

5. "AS-BUILT" INFORMATION ON THE WATER SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS AND WATER SERVICES AND TOP-OF-PIPE ELEVATION ON 100-FOOT INTERVALS AT A MINIMUM.

6. PRIOR TO A FINAL INSPECTION BY THE CITY OF PEMBROKE PINES, THE ENGINEER, AND THE CONTRACTOR SHALL SUBMIT TWO (2) SETS OF BLUEPRINTS OF "AS-BUILT" CONSTRUCTION DRAWINGS.

7. UPON A FINAL INSPECTION BY THE CITY OF PEMBROKE PINES, THE ENGINEER SHALL SUBMIT TO THE CITY ONE (1) COMPLETE SET OF REPRODUCIBLE MYLARS AND THREE (3) SETS OF BLUEPRINTS OF "AS-BUILT" CONSTRUCTION DRAWINGS THAT HAVE BEEN CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND THE ENGINEER OF RECORD AND COMPUTER FILES OF "AS-BUILT" CONSTRUCTION DRAWINGS ON A CD IN AUTOCAD RELEASE 16 FORMAT OR LATEST ADDITION.

8. PRIOR TO PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES AND ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER AND THE CITY OF PEMBROKE PINES HAVE REVIEWED AND APPROVED THE "AS-BUILTS".

9. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO AND AND APPROVED BY THE ENGINEER AND THE CITY OF PEMBROKE PINES PRIOR TO THE PLACING THE LIMEROCK BASE MATERIAL.

10. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER AND THE CITY OF PEMBROKE PINES PRIOR TO PLACING ASPHALT.

VII. WATER DISTRIBUTION AND/OR SEWAGE FORCE MAIN SYSTEM

A. GENERAL:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF PEMBROKE PINES AND THE ENGINEER OF RECORD NO LATER THAN 72 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING SYSTEMS. A CITY OF PEMBROKE PINES REPRESENTATIVE AND THE ENGINEER OF RECORD MUST BE PRESENT.

2. SEPARATION OF WATER AND SEWER MAINS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE FLORIDA ADMINISTRATIVE CODE.

3. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS FOR THE WATER MAINS AND SEWER FORCE MAINS, AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF PEMBROKE PINES AND THE BROWARD COUNTY HEALTH DEPARTMENT.

4. CLEANING OF NEWLY INSTALLED PIPING SYSTEMS SHALL BE ACCOMPLISHED USING PIPE PIGGING METHODS. OPEN FLUSHING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE UTILITIES DEPARTMENT. ALL WATER WILL BE ACCOUNTED FOR.

5. ALL EFFORTS SHALL BE MADE SO THAT WATER AND FORCE MAINS CROSS ABOVE DRAINAGE LINES WITH ADEQUATE COVER AND SEPARATION. IF THIS IS NOT POSSIBLE, IT SHALL BE INDICATED ON THE PLANS.

6. A THREE (3) FOOT LATERAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER/SEWER LINES AND OBSTRUCTIONS (I.E., CATCH BASINS, CONCRETE POLES, ETC.), FIVE (5) FEET FROM TREES.

7. THE MAXIMUM DEPTH TO THE BOTTOM OF THE PRESSURE MAIN INSTALLED SHALL NOT EXCEED SIX (6) FEET UNLESS APPROVED BY THE CITY OF PEMBROKE PINES.

8. RESTRAINED JOINTS SHALL BE USED, IN LIEU OF CONCRETE THRUST BLOCKS, AT ALL CHANGES IN DIRECTION OF WATER MAINS, SEWAGE FORCE MAINS AND ELSEWHERE AS INDICATED ON THE DRAWINGS. RESTRAIN ALL PIPE JOINTS WITHIN THE DISTANCES ON EACH SIDE OF FITTINGS AS REQUIRED TO PROPERLY RESTRAIN AND SUPPORT BENDS, TEES, VALVES, DEAD ENDS AN OTHER SUCH FITTINGS WITH THE EXCEPTION OF FIRE HYDRANTS IN ACCORDANCE WITH THE DETAILS.

9. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [F.A.C. 62-555.320(21)(b)3]

B. MATERIALS:

1. PIPE:

THE WATER MAIN AND/OR SEWAGE FORCE MAIN SHALL BE EITHER POLYVINYL CHLORIDE (PVC) OR DUCTILE IRON PIPE (DIP).

A. PVC PIPE SHALL BE ASTM 1120 PRESSURE PIPE WITH IRON O.D., CLASS 150 (DR 18), CONFORMING TO ANSI/AWWA C900-97 OR C905-97 AND SHALL HAVE PUSH RUBBER GASKET JOINTS.

B. DIP SHALL BE CLASS 350 WALL THICKNESS (UP TO 12"), CLASS 300 (14"-18"), CLASS 250 (20" OR GREATER) WITH INTERIOR CEMENT LINING AND EXTERIOR COAL TAR COATING CONFORMING TO ANSI/AWWA C151/A21.51-02, OR LATEST REVISION. PIPE SHALL CONFORM TO ANSI/AWWA C606. THE PIPE SHALL WITHSTAND A WORKING PRESSURE OF 350 PSI UP TO 12", AND 300 PSI FOR DIAMETERS GREATER THAN OR EQUAL TO 14". THE JOINTS SHALL BE BELL AND SPIGOT PUSH ON TYPE, MECHANICAL JOINT OR FLANGED. FLANGED PIPE SHALL CONFORM WITH THE PHYSICAL AND CHEMICAL REQUIREMENTS AS SET FORTH IN THE HANDBOOK OF DUCTILE IRON PIPE OF THE CAST IRON PIPE RESEARCH ASSOCIATION.

2. FITTINGS:

FITTINGS SHALL BE DUCTILE IRON COMPACT MECHANICAL JOINT AND SHALL BE CLASS 350 THROUGH 24" CONFORMING TO ANSI/AWWA C153/A21.53-00, OR LATEST REVISION, AND CLASS 250 IN SIZES 24" AND LARGER, CONFORMING TO ANSI/AWWA C110/A21.10 -03, OR LATEST REVISION, COMPLETE WITH GLANDS, GASKETS, BOLTS AND NUTS. ALL FITTINGS SHALL BE CEMENT LINED AND SEAL COATED WITH THE SAME AS PIPE.

3. VALVES:

A. VALVES SHALL BE GATE VALVES FOR WATER (4"-12" SIZE), BUTTERFLY VALVES FOR WATER (16" AND UP SIZE) OR PLUG VALVES FOR FORCE MAIN (ALL SIZES).

I. GATE VALVES SHALL BE DUCTILE IRON BODY, FULLY RESILIENT SEAT, BRONZE MOUNTED NON-RISING STEM, DOUBLE DISC, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-01 OR LATEST REVISION. EXPOSED VALVES SHALL BE OUTSIDE SCREW AND YOKE TYPE.

II. BUTTERFLY VALVES AND OPERATORS SHALL CONFORM TO ANSI/AWWA C504-00 STANDARD FOR RUBBER SEATED BUTTERFLY VALVES, OR LATEST REVISIONS. VALVES SHALL BE CLASS 150 A OR B.

III. PLUG VALVES SHALL BE SEMI-STEEL BODY, NON-LUBRICATED, ECCENTRIC TYPE, WITH RESILIENT FACED PLUGS, AND CAPABLE OF DRIP-TIGHT SHUT OFF AT THE RATED PRESSURE IF APPLIED AT EITHER PORT. VALVES ARE TO BE EQUIPPED WITH ACTUATING NUTS, CAST IRON HANDWHEELS OR CHAIN OPERATORS, WITH GALVANIZED STEEL CHAINS, AS APPROPRIATE FOR THE INSTALLATION AND TYPE OF OPERATOR.

B. AIR RELEASE VALVES

I. SEWER FORCE MAIN AIR RELEASE VALVES - SYSTEM SHALL BE A COMBINATION OF ONE SEWAGE AIR RELEASE VALVE AND ONE SEWAGE AIR/VACUUM VALVE WITH DUAL ISOLATION PLUG VALVES. BOTH VALVE BODIES AND COVERS SHALL BE OF CAST IRON CONSTRUCTION, ASTM A126-B. ALL INTERNAL PARTS SHALL BE STAINLESS STEEL, ASTM A-240 - TYPE 304 AND ASTM A276 - TYPE 303. THE VENTING ORIFICE SHALL BE 5/16" IN DIAMETER WITH STAINLESS STEEL SEAT. THE INLET OPENINGS SHALL BE A MINIMUM OF 2" NPT SCREWED CONNECTION FOR BOTH VALVES. THE VALVES SHALL FULLY CAPABLE OF OPERATION IN SEWAGE FORCE MAIN. BOTH VALVES SHALL INCLUDE A BACK-FLUSHING FEATURE FOR PERIODIC CLEANING OF THE INTERNAL MECHANISM. THE OVERALL HEIGHT SHALL NOT EXCEED 22-1/2 INCHES.

II. WATER MAIN AIR RELEASE VALVES - VALVE BODY AND COVER SHALL BE OF DUCTILE IRON CONSTRUCTION. ALL INTERNAL WORKING PARTS SHALL BE OF STAINLESS STEEL ASTM A240, TYPE 303 FOR THE FLOAT AND ASTM A296 - TYPE 316 FOR THE LINKAGE. THE VENTING ORIFICE SHALL BE 3/16" IN DIAMETER WITH BRASS SEAT. THE INLET OPENING SHALL BE A 2" NPT SCREWED CONNECTION. THE OVERALL HEIGHT SHALL NOT EXCEED 13 INCHES.

C. A REFLECTIVE PAVEMENT MARKER SHALL BE INSTALLED IN THE CENTER OF THE NEAREST LANE OF ROAD PAVEMENT ADJACENT TO ALL VALVE LOCATIONS OUTSIDE THE ROAD PAVEMENT. WATER MARKERS SHALL BE WHITE, SEWER MARKERS SHALL BE GREEN.

4. FIRE HYDRANTS:

A. FIRE HYDRANTS SHALL HAVE A MINIMUM 5 1/4" VALVE OPENING AND SHALL OPEN AGAINST THE PRESSURE AND CLOSE WITH THE FLOW. HYDRANTS SHALL MEET OR EXCEED ANSI/AWWA C502-05, C503-05 OR LATEST REVISION, AND SHALL COMPLY WITH FACTORY MUTUAL RESEARCH CORPORATION AND UNDERWRITERS LABORATORIES UL246 STANDARD.

B. A BLUE REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED IN THE CENTER OF THE NEAREST LANES OF ROAD PAVEMENT ADJACENT TO ALL FIRE HYDRANT LOCATIONS.

5. DETECTOR TAPE:

A. DETECTOR TAPE SHALL BE 3" WIDE BLUE TAPE FOR WATER MAIN AND GREEN TAPE FOR FORCE MAIN, WITH A METALLIZED FOIL CORE LAMINATED BETWEEN 2 LAYERS OF PLASTIC FILM. THE WORDS "CAUTION WATER LINE BURIED BELOW" OR "CAUTION FORCE MAIN BURIED BELOW" SHALL BE PRINTED AT 30"INTERVALS ALONG THE TAPE. TAPE SHALL BE PLACED 18" BELOW GRADE ABOVE ALL PVC MAINS AND SERVICES OR AS RECOMMENDED BY MANUFACTURER. NONMETALLIC TAPE SHALL BE USED ABOVE DUCTILE IRON PIPE. DETECTOR TAPE SHALL BE BY EMPIRE (MAGNATEC PREMIUM DETECTABLE TAPE).

6. SERVICE CONNECTIONS:

A. SERVICE SADDLES SHALL BE DUCTILE IRON EPOXY OR NYLON COATED WITH DOUBLE STAINLESS STEEL STRAPS. SADDLES SHALL CONFORM TO ANSI/AWWA C111/21.11-00 AND ASTM A-588 OR LATEST REVISION.

B. SERVICE LINES SHALL BE POLYETHYLENE (PE) TUBING AS DESCRIBED IN ANSI/AWWA C901-02 OR LATEST REVISION, WITH A WORKING PRESSURE OF 200 PSI (DR 9). PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT. POLYETHYLENE SHALL BE EXTRUDED FROM PE 3408 HIGH MOLECULAR WEIGHT MATERIAL AND MUST CONFORM TO ASTM D-2737.

C. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE ASTM B-62 WITH THREADED ENDS.

D. METER STOPS SHALL BE THE 90 DEGREE LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM B-62. METER STOPS SHALL BE CLOSED BUTTON DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES.

7. TAPPING SLEEVES:

A. TAPPING SLEEVES SHALL BE DUCTILE IRON, ASTM GRADE 65-45-12, MECHANICAL JOINT.

8. VALVE BOXES:

A. VALVE BOXES FOR WATER MAINS AND SEWER FORCE MAINS SHALL BE ADJUSTABLE SCREW TYPE WITH 5-1/4" SHAFT, 18 TO 24 INCH EXTENSION, CAST IRON ASTM-A48 CLASS 30 MARKED "WATER" OR "SEWER".

B. VALVE BOXES FOR BLOW-OFF ASSEMBLY SHALL BE CAST IRON ASTM A-48 CLASS 30 MARKED "W".

9. RETAINER GLANDS:

A. RETAINER GLANDS SHALL CONFORM TO ANSI/AWWA C111/A21.11-00 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING.

10. DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY:

A. THE ASSEMBLY SHALL CONFORM TO ANSI/AWWA C510-97, OR LATEST REVISION, AND CAPABLE OF WITHSTANDING A WORKING PRESSURE OF AT LEAST 150 PSI WITHOUT DAMAGE TO WORKING PARTS OR IMPAIRMENT OF FUNCTION. IT SHALL CONSIST OF TWO INTERNALLY LOADED, INDEPENDENTLY OPERATING CHECK VALVES, LOCATED BETWEEN TWO TIGHTLY CLOSING RESILIENT-SEATED SHUT OFF VALVES, WITH FOUR PROPERLY PLACED RESILIENT-SEATED TEST COCKS.

C. INSTALLATION:

1. GENERAL:

CONNECTION OF ALL NEW SYSTEMS TO EXISTING MAINS SHALL BE DONE USING ONE OF THE THREE FOLLOWING METHODS:

A. METHOD "A", WHICH INVOLVES A REDUCED SIZE TEMPORARY CONNECTION BETWEEN THE EXISTING MAIN AND THE NEW MAIN.

B. METHOD "B", WHICH INVOLVES A DIRECT CONNECTION BETWEEN THE NEW AND EXISTING MAINS USING TWO GATE VALVES SEPARATED BY A SLEEVE WITH A VENT PIPE.

C. METHOD "C", WHICH INVOLVES A TAP WITH ONE GATE VALVE REQUIRING DISINFECTION OF THE NEW SYSTEM PRIOR TO CONDUCTING THE PRESSURE TEST.

2. BEDDING:

A. BEDDING AND INITIAL BACKFILL (12 INCHES ABOVE PIPE) FOR ALL PIPES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF THE CITY OF PEMBROKE PINES. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 2-1/2" IN DIAMETER.

3. PVC PIPE:

A. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION'S GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEMS.

B. PVC PIPE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER.

C. DETECTOR TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL PVC MAINS APPROXIMATELY 18" BELOW GRADE, COLOR SIDE UP.

4. DUCTILE IRON PIPE:

A. DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION.

B. DIP SHALL BE INSTALLED WITH A MINIMUM OF 30" COVER.

C. IDENTIFICATION TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL DIP MAINS APPROXIMATELY 18" ABOVE THE MAIN, COLOR SIDE UP. DIP WATER MAIN SHALL HAVE A BLUE STRIPE, AND FORCE MAIN SHALL HAVE A GREEN STRIPE.

5. VALVES:

A. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER" CAST IN THE COVER.

B. MAIN VALVES SHALL BE LOCATED ON AN EXTENSION OF THE RIGHT-OF-WAY LINE UNLESS DIMENSIONED OTHERWISE.

C. MAIN VALVES SHALL BE INSTALLED AWAY FROM PARKING AREAS. IF THIS IS UNAVOIDABLE, PROPER MEASURES SHALL BE TAKEN TO AVOID THE PARKING OF VEHICLES OVER THE VALVES. HYDRANT VALVES SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. VALVES LOCATED IN NON-PAVED AREAS OR IN PARKING STALLS REQUIRE A REFLECTIVE PAVEMENT MARKER ON THE CENTER OF THE NEAREST LANE OF ROAD PAVEMENT. WHITE REFLECTORS FOR WATER MAIN VALVES, GREEN REFLECTORS FOR FORCE MAIN VALVES.

D. THE DISTANCE FROM THE TOP OF THE VALVE ACTUATOR NUT TO FINAL GRADE SHALL BE A MINIMUM OF 12 INCHES AND A MAXIMUM OF 18 INCHES.

6. SERVICE:

A. COVER OVER SERVICE LINES SHALL BE 18 INCHES MINIMUM, 24 INCHES MAXIMUM BELOW FINISHED GRADE AND 36 INCHES UNDER PAVEMENT.

B. POLYETHYLENE SHALL BE BEDDED IN BACKFILL OF SAND WITH NO ROCK GREATER THAN 1 INCH IN DIAMETER.

C. METER STOPS SHALL HAVE 8 INCHES TO 10 INCHES COVER OR AS REQUIRED FOR PROPER METER/BOX INSTALLATION.

D. WATER SERVICES UNDER PAVEMENT, AND SIDEWALKS SHALL BE ENCASED IN A SCHEDULE 80 PVC SLEEVE FOR THE FULL LENGTH OF THE PAVEMENT AND FOR 2 FEET BEYOND THE EDGE.

E. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2" X 4" TREATED STAKE, PAINTED BLUE, EXTENDING 18 INCHES (MINIMUM) ABOVE GRADE UNLESS INDICATED OTHERWISE.

7. TESTING:

A. THE PHYSICAL CONNECTION OF THE NEW SYSTEM TO THE EXISTING SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE "FILLING AND FLUSHING CONNECTION" DETAIL SHOWN IN THE DRAWINGS.

B. THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED. THE PRESSURE TEST SHALL BE FOR TWO HOURS AT 150 PSI MINIMUM TEST PRESSURE IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION. THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST. LEAKAGE ALLOWANCES WILL NOT BE MADE FOR FITTINGS OR VALVES.

C. ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FORMULA OF

$$Q(\text{GALLONS}) = [LD(P^{0.5})]/148{,}000 \quad \text{PER AWWA C600-10}$$

Q = QUANTITY OF MAKEUP WATER (TESTING ALLOWANCE), IN GALS/HR (NO ALLOWABLE LEAKAGE FOR VALVES)
L = LENGTH OF PIPE TESTED IN FEET
D = NOMINAL DIAMETER OF PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN LBS/SQ.IN. (GAUGE)

D. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY OF PEMBROKE PINES AND THE ENGINEER OF RECORD.

E. BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH AWWA C-651-05. MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL BE AS FOLLOWS:
- TRANSMISSION MAINS: EVERY 800 FEET
- BRANCH MAINS: EVERY 800 FEET
- ISOLATED MAINS LESS THAN 1000 FEET: 2 SAMPLE POINTS
- ISOLATED MAINS GREATER THAN 1000 FEET: 3 SAMPLE POINTS

F. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH ANSI/AWWA C651-05 OR LATEST REVISION WITH APPROVED BACTERIOLOGICAL SAMPLES AND PROPER DOCUMENTATION BY BROWARD COUNTY HEALTH DEPARTMENT. COLLECTION OF SAMPLES IS THE CONTRACTOR'S RESPONSIBILITY AND WILL BE WITNESSED BY A CITY OF PEMBROKE PINES REPRESENTATIVE.

VIII. EARTHWORK AND COMPACTION

A. GENERAL:

1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.

2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

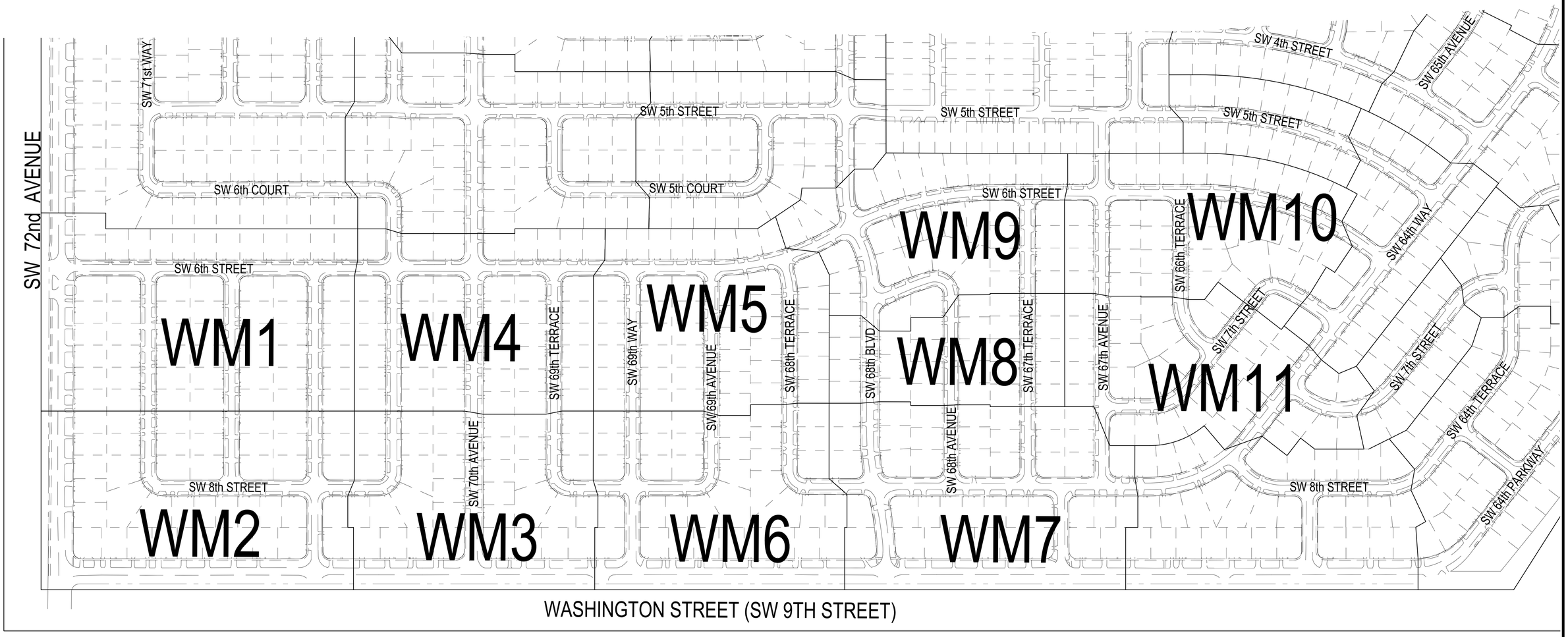
4. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.

5. SOD SHALL BE ST. AUGUSTINE, BITTER BLUE OR FLORATAM AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT. SOD TO BE PLACED FLUSH WITH ADJACENT PAVEMENT TO ALLOW FOR PROPER DRAINAGE.

6. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS AND/OR OTHER APPROPRIATE MEASURES SHALL BE INSTALLED.

B. ON-SITE:

1. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN TH



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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

KEY MAP

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

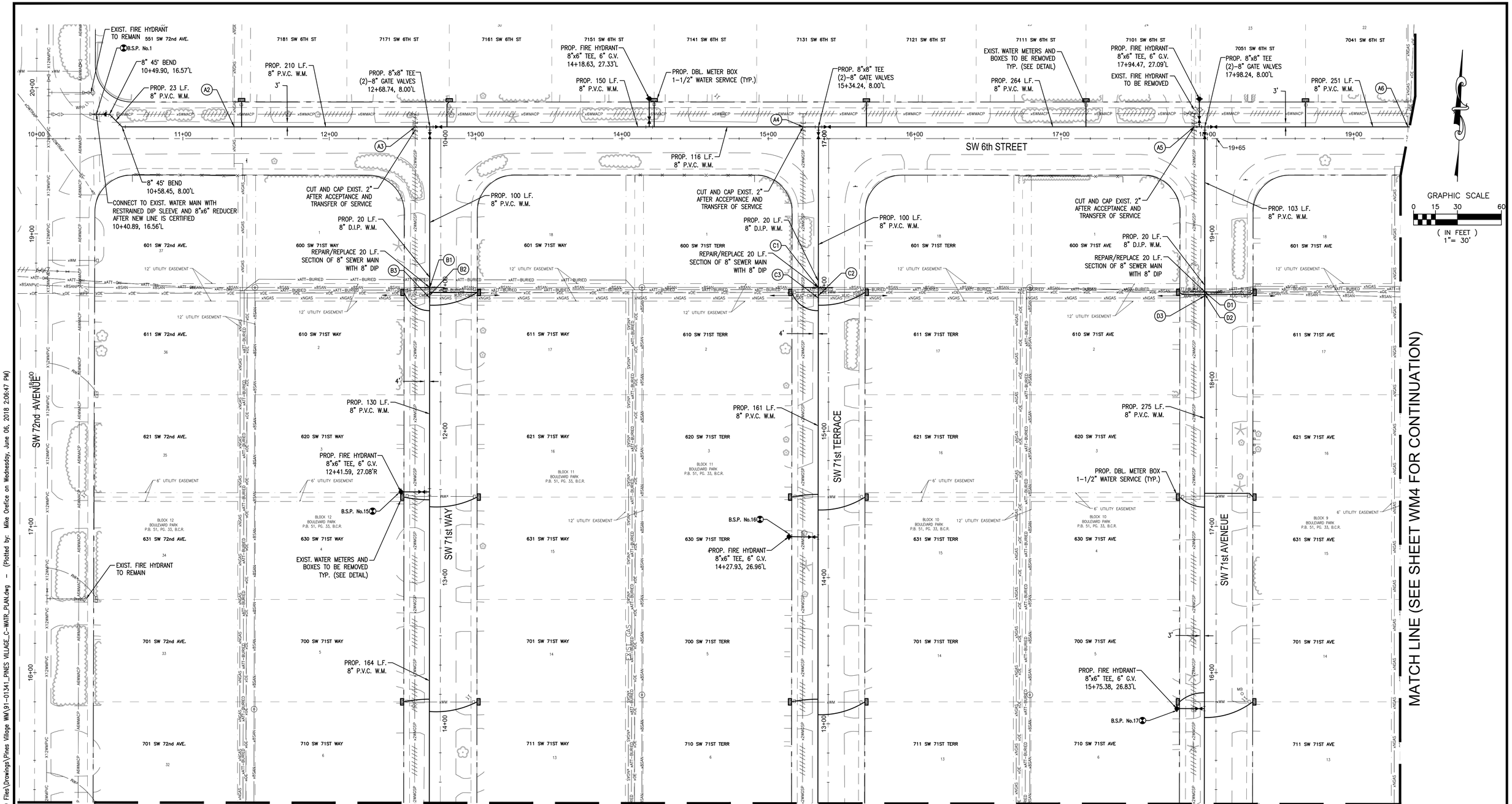
DATE: JUNE 6, 2018

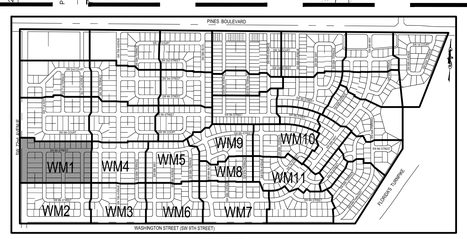
SCALE: NTS

PROJECT No: 91-0134.1

SHEET: K1

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-KEY_MAP.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:45:00 PM)





KEY MAP
SCALE N.T.S.

MATCH LINE (SEE SHEET WM2 FOR CONTINUATION)

CONFLICTS

NO.	PIPES	CLEARANCE
A1	REMOVED	N/A
A2	Existing NGAS Over Proposed 8" PVC WM	12" MIN.
A3	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A4	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A5	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A6	Existing NGAS Over Proposed 8" PVC WM	12" MIN.

CONFLICTS

NO.	PIPES	CLEARANCE
B1	Existing 8" Clay SS BOP 4.64 ft Below Surface Over Proposed 8" DIP WM TOP 5.14 ft Below Surface	18"
B2	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
B3	Existing NGAS Over Proposed 8" PVC WM	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.

CONFLICTS

NO.	PIPES	CLEARANCE
C1	Existing 8" Clay SS BOP 3.48 ft Below Surface Over Proposed 8" DIP WM TOP 4.98 ft Below Surface	18"
C2	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
C3	Existing NGAS Proposed 8" PVC WM	12" MIN.

CONFLICTS

NO.	PIPES	CLEARANCE
D1	Proposed 8" DIP WM BOP 3.76 ft Below Surface Over Existing 8" Clay SS TOP 5.51 ft Below Surface	21"
D2	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
D3	Existing NGAS Over Proposed 8" PVC WM	12" MIN.

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

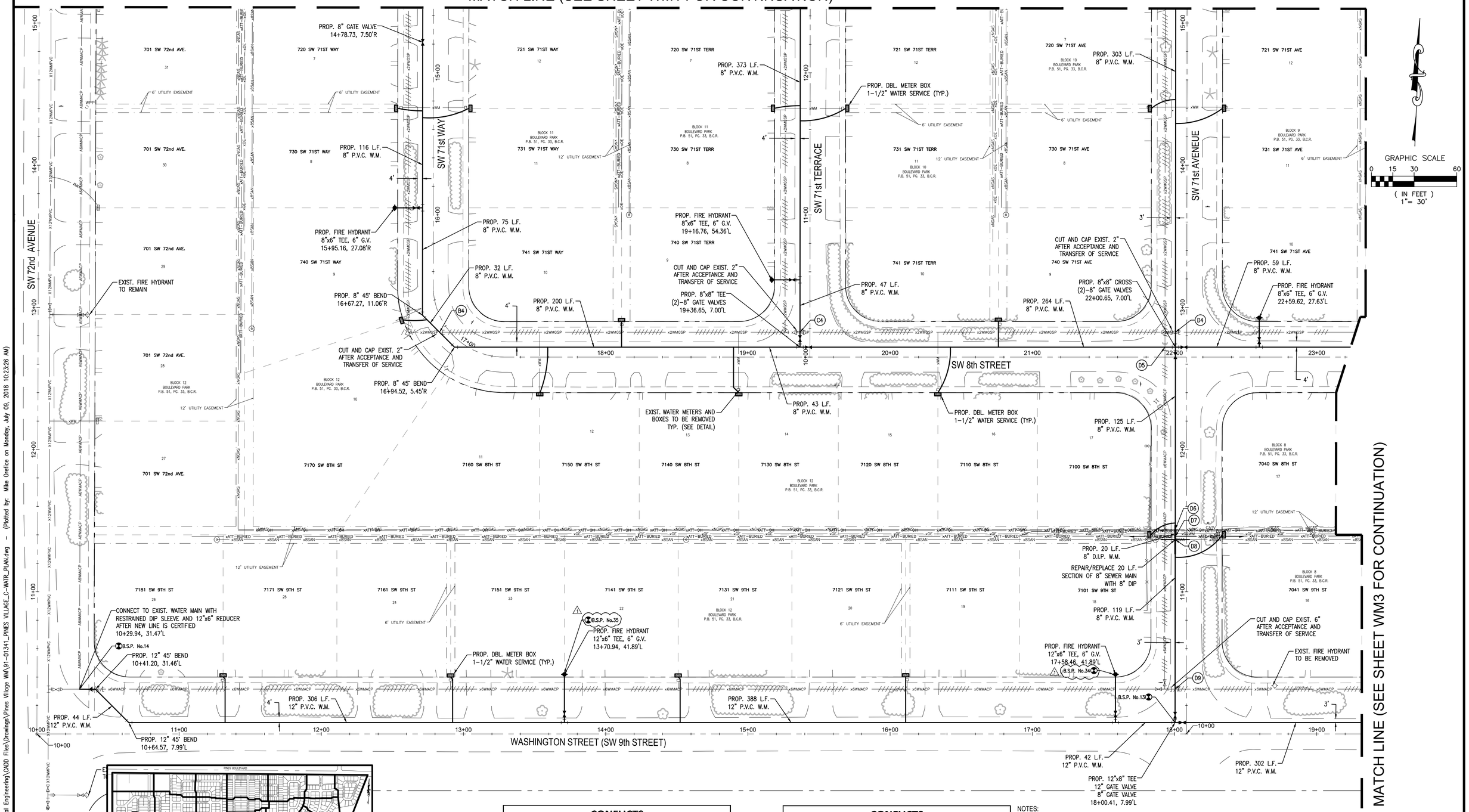
SCALE: AS SHOWN

PROJECT No: 91-0134.1

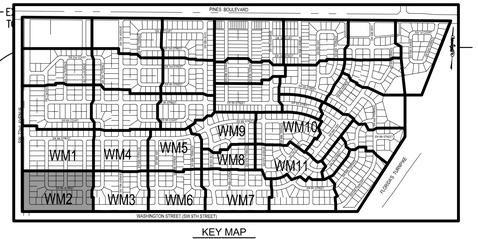
SHEET: WM1

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 2:06:47 PM)

MATCH LINE (SEE SHEET WM1 FOR CONTINUATION)



MATCH LINE (SEE SHEET WM3 FOR CONTINUATION)



KEY MAP
SCALE N.T.S.

CONFLICTS

NO.	PIPES	CLEARANCE
B4	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 TOP ft Below Surface	6"
C4	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 TOP ft Below Surface	6"
D4	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 TOP ft Below Surface	6"
D5	Existing 8" ACP WM 3.50 ft Below Surface Over Proposed 8" PVC WM 4.00 ft Below Surface	6"

CONFLICTS

NO.	PIPES	CLEARANCE
D6	Existing NGAS Over Proposed 8" PVC WM	12" MIN.
D7	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
D8	Proposed 8" DIP WM BOP 3.25 ft Below Surface Over Existing 8" Clay SS TOP 4.50 ft Below Surface	10"
D9	Existing 6" ACP WM 3.71 ft Below Surface Over Proposed 8" PVC WM 4.21 ft Below Surface	6"

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.

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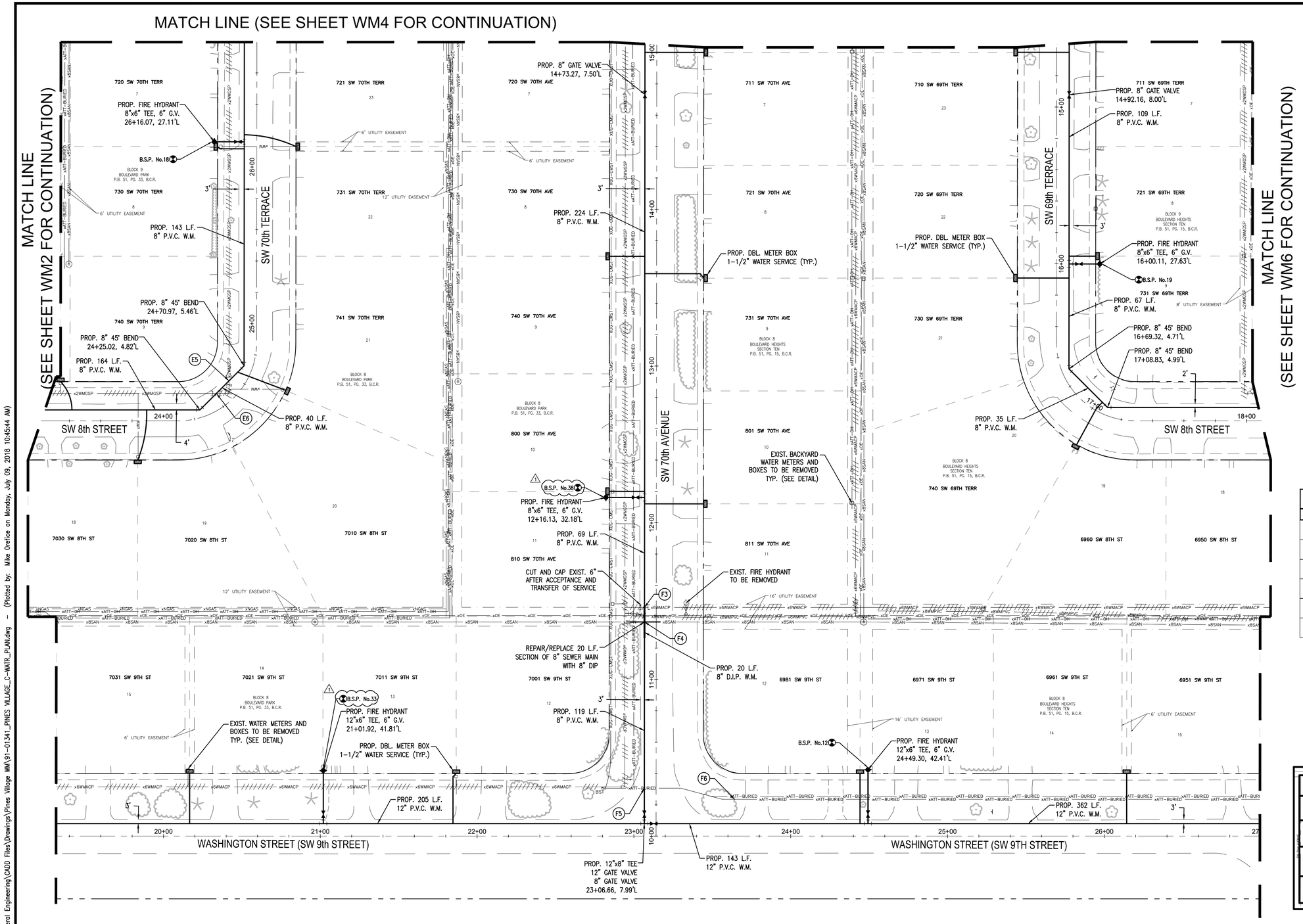
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM2

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Monday, July 09, 2018 10:23:26 AM)

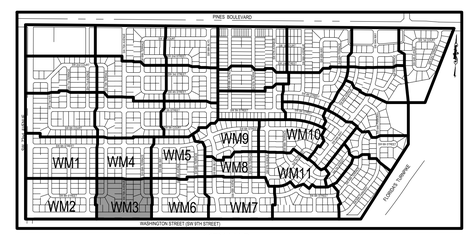


CONFLICTS

NO.	PIPES	CLEARANCE
E5	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
E6	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
F3	Proposed 8" PVC WM BOP 3.76 ft Below Surface Over Existing 6" ACP WM TOP 4.68 ft Below Surface	10"
F4	Proposed 8" DIP WM BOP 3.76 ft Below Surface Over Existing 8" Clay SS TOP 5.56 ft Below Surface	21"
F5	Existing ATT Over Proposed 8" PVC WM	12" MIN.
F6	Existing ATT Over Proposed 6" PVC WM	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.



KEY MAP
SCALE N.T.S.

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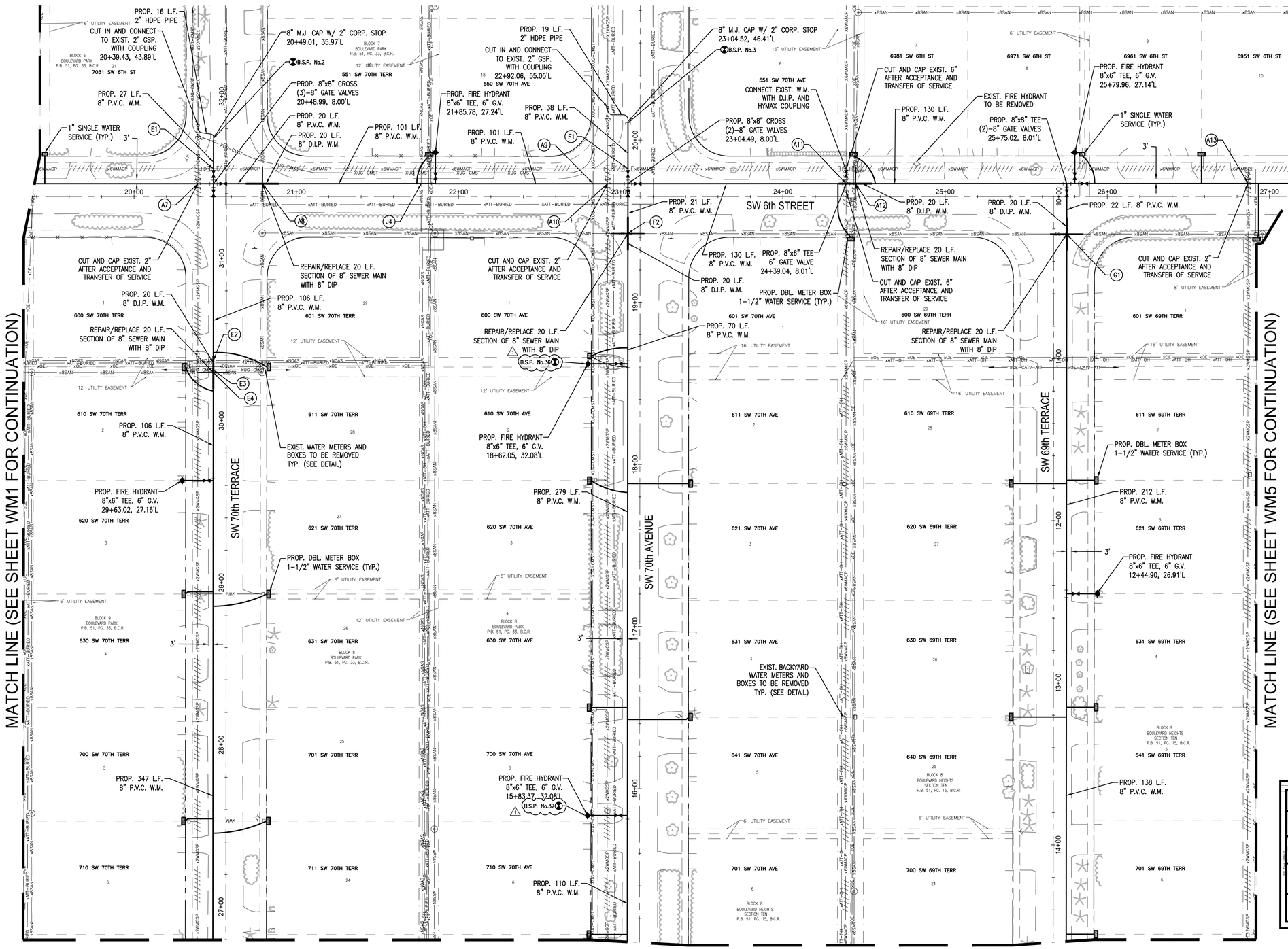
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM3

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Monday, July 09, 2018 10:45:44 AM)

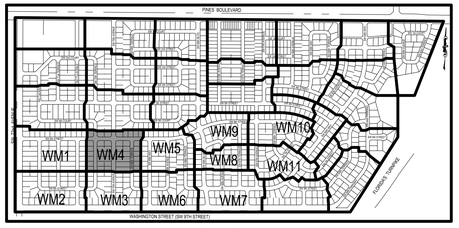


CONFLICTS

NO.	PIPES	CLEARANCE
A7	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A8	Proposed 8" WM DIP BOP 3.76 ft Below Surface Over Existing 8" Clay SS TOP 5.58 ft Below Surface	21"
A9	Existing NGAS Over Proposed 8" PVC WM	12" MIN.
A10	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A11	Existing 6" ACP WM BOP 3.42 ft Below Surface Over Proposed 8" PVC WM 4.42 TOP ft Below Surface	12"
A12	Proposed 8" DIP WM BOP 3.75ft Below Surface Over Existing 8" CLAY SS TOP 7.00 ft Below Surface	39"
A13	Existing 2" WM BOP 2.75 ft Below Surface Over Proposed 8" PVC WM TOP 3.25 ft Below Surface	6"
E1	Existing 6" ACP WM BOP 3.67 ft Below Surface Over Proposed 8" PVC WM TOP 4.17 ft Below Surface	6"
E2	Existing NGAS Over Proposed 8" PVC WM	12" MIN.
E3	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
E4	Proposed 8" DIP WM BOP 4.00 ft Below Surface Over Existing 8" Clay SS TOP 6.49 ft Below Surface	30"
F1	Existing 6" ACP WM BOP 3.67 ft Below Surface Over Proposed 8" PVC WM TOP 4.17 ft Below Surface	6"
F2	Proposed 8" PVC WM BOP 3.76 ft Below Surface Over Existing 8" ACP SS TOP 7.20ft Below Surface	41"
G1	Proposed 8" DIP WM BOP 3.76 ft Below Surface Over Existing 8" CLAY SS TOP 7.48 ft Below Surface	44"
J4	Existing NGAS Over Proposed 8" PVC WM	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.



KEY MAP
SCALE N.T.S.

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

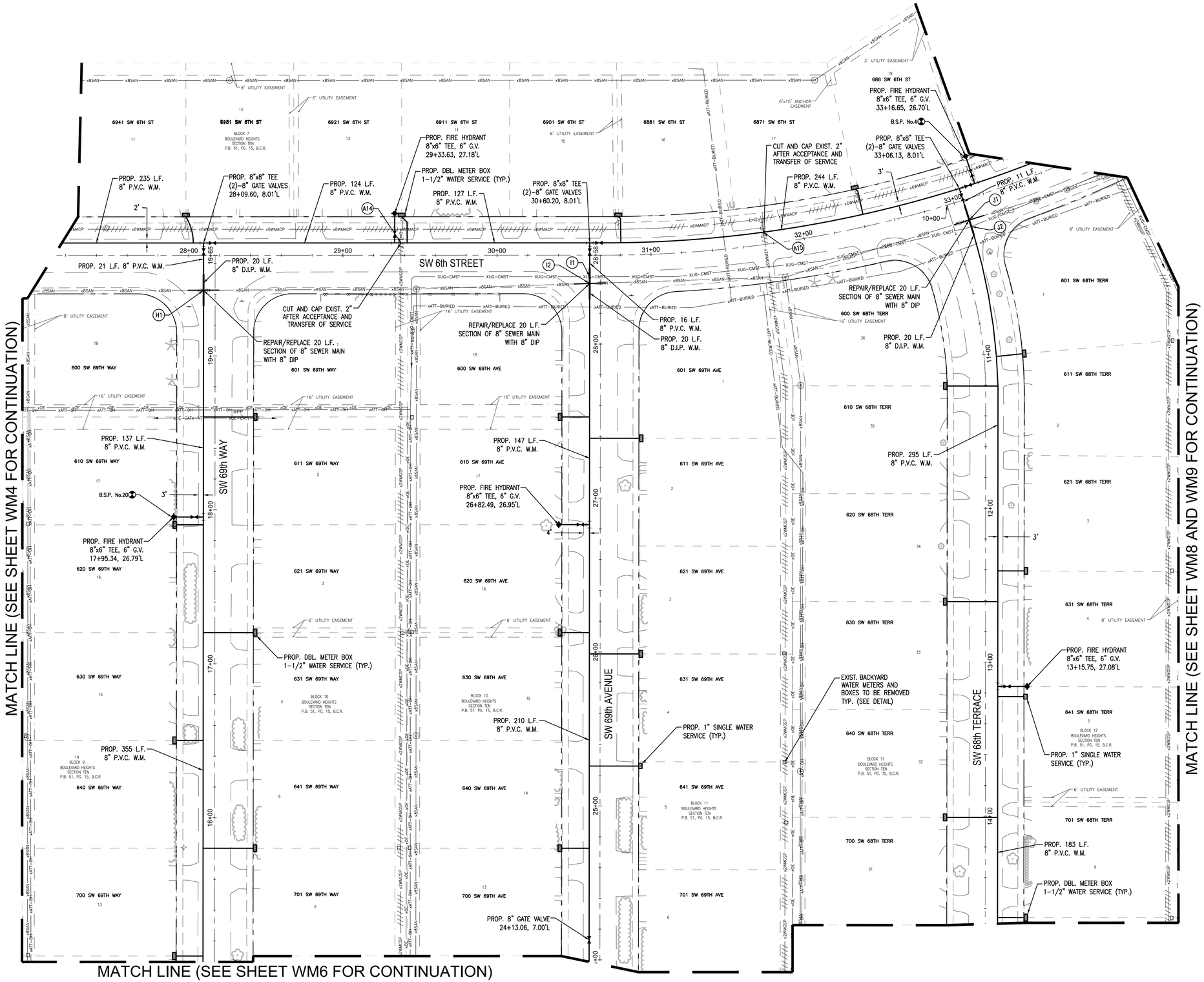
DATE: JULY 10, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: WM4

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Monday, July 09, 2018 10:46:47 AM)



GRAPHIC SCALE

0 15 30 60

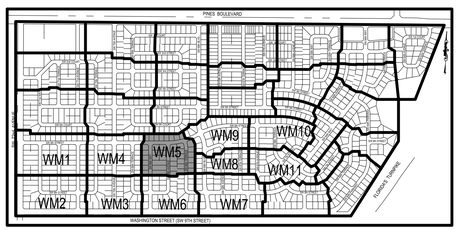
(IN FEET)
1" = 30'

CONFLICTS

NO.	PIPES	CLEARANCE
A14	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 TOP ft Below Surface	6"
A15	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 TOP ft Below Surface	6"
H1	Proposed 8" DIP WM BOP 3.75 ft Below Surface Over Existing 8" Clay SS TOP 6.84 ft Below Surface	37"
I1	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
I2	Proposed 8" DIP WM BOP 3.76 ft Below Surface Over Existing 8" Clay SS TOP 6.22 ft Below Surface	29"
J1	Proposed 8" DIP WM BOP 3.48 ft Below Surface Over Existing 8" Clay SS TOP 4.98 ft Below Surface	18"
J2	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.



KEY MAP
SCALE N.T.S.

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

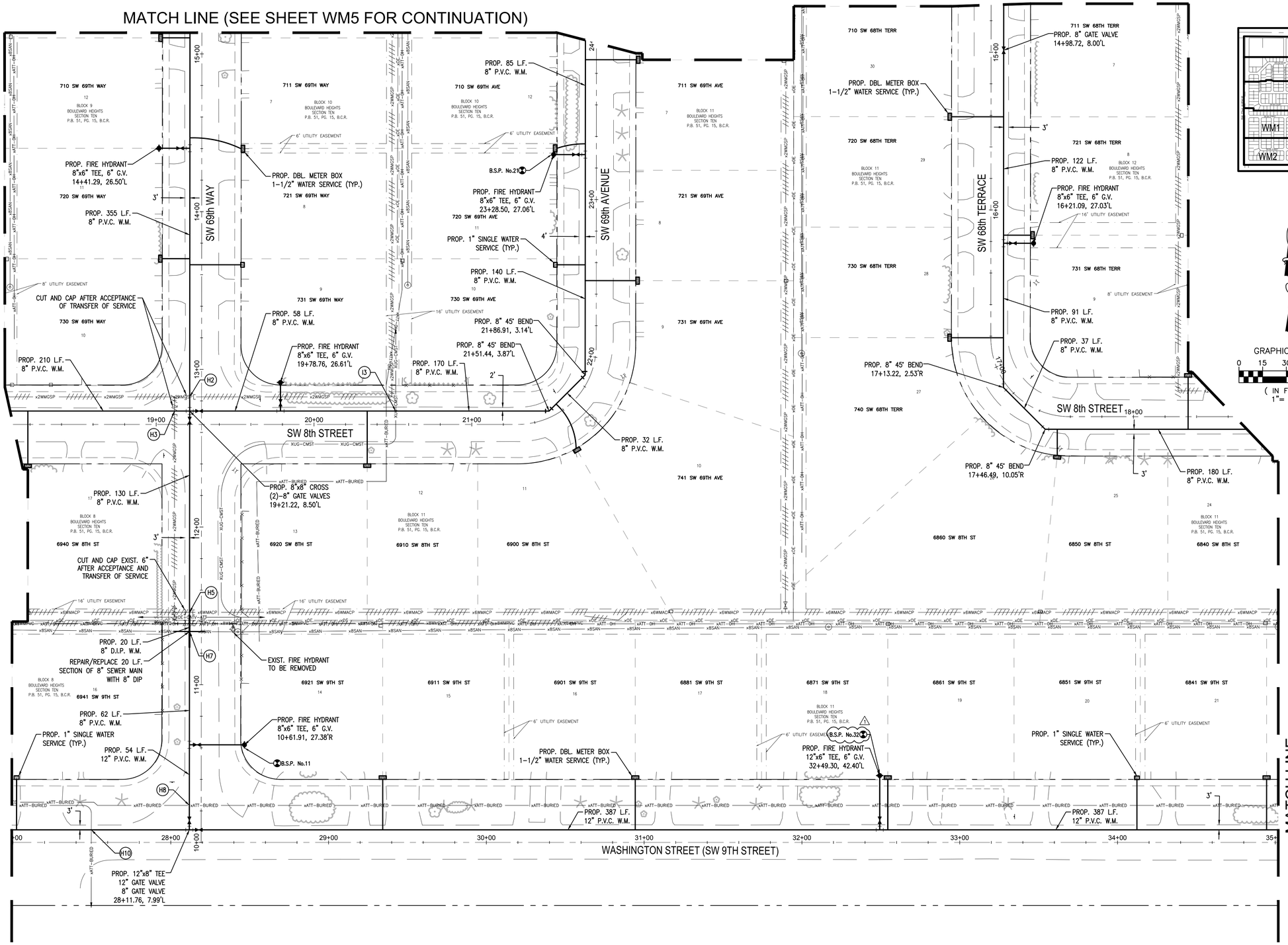
DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: WM5

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 2:25:55 PM)



CONFLICTS

NO.	PIPES	CLEARANCE
H2	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
H3	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
H5	Existing 6" ACP WM BOP 3.67 ft Below Surface Over Proposed 8" PVC WM TOP 4.17 ft Below Surface	6"
H7	Proposed 8" DIP WM BOP 3.75 ft Below Surface Over Existing 8" Clay SS TOP 6.84 ft Below Surface	37"
H8	REMOVED	N/A
H10	Existing ATT Over Proposed 12" PVC WM	12" MIN.
I3	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM6

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg – (Plotted by: Mike Orefice on Monday, July 09, 2018 10:49:27 AM)

MATCH LINE (SEE SHEET WM8 FOR CONTINUATION)

MATCH LINE (SEE SHEET WM11 FOR CONTINUATION)

MATCH LINE (SEE SHEET WM6 FOR CONTINUATION)

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1" = 30'

B.S.P. No.22
710 SW 68TH BLVD
PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 15+43.39, 31.75'L
6'
711 SW 68TH BLVD
BLOCK 14 BOULEVARD HEIGHTS SECTION TEN P.B. 51, PG. 15, B.C.R.
BLOCK 12 BOULEVARD HEIGHTS SECTION TEN P.B. 51, PG. 15, B.C.R.
PROP. DBL. METER BOX 1-1/2" WATER SERVICE (TYP.)
PROP. 278 L.F. 8" P.V.C. W.M.
720 SW 68TH BLVD
721 SW 68TH BLVD
710 SW 68TH AVE
720 SW 68TH AVE
711 SW 68TH AVE
721 SW 68TH AVE
PROP. 306 L.F. 8" P.V.C. W.M.
SW 68th AVENUE
SW 68th BLVD.
16' UTILITY EASEMENT
730 SW 68TH BLVD
8' UTILITY EASEMENT
731 SW 68TH BLVD
7' FPL EASEMENT
730 SW 68TH AVE
731 SW 68TH AVE
CUT AND CAP EXIST. 6" AFTER ACCEPTANCE AND TRANSFER OF SERVICE
PROP. 8"x8" TEE (2)-8" GATE VALVES 19+69.22, 8.00'R
PROP. 45 L.F. 8" P.V.C. W.M.
PROP. 1" SINGLE WATER SERVICE (TYP.)
PROP. 31 L.F. 8" P.V.C. W.M.
EXIST. FIRE HYDRANT TO BE REMOVED
PROP. 32 L.F. 8" P.V.C. W.M.
PROP. FIRE HYDRANT 8"x6" TEE, (2)-6" G.V. 22+71.22, 23.87'L
B.S.P. No.24
PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 12+42.09, 26.30'L
710 SW 67TH TERR
711 SW 67TH TERR
710 SW 67TH AVE
720 SW 67TH TERR
721 SW 67TH TERR
720 SW 67TH AVE
PROP. 103 L.F. 8" P.V.C. W.M.
SW 67th TERRACE
SW 67th AVENUE
PROP. 20 L.F. 8" D.I.P. W.M.
REPAIR/REPLACE 20 L.F. SECTION OF 8" SEWER MAIN WITH 8" DIP
PROP. 103 L.F. 8" P.V.C. W.M.
730 SW 67TH TERR
731 SW 67TH TERR
730 SW 67TH AVE
PROP. 59 L.F. 8" P.V.C. W.M.
PROP. 46 L.F. 8" P.V.C. W.M.
PROP. 20 L.F. 8" D.I.P. W.M.
CUT AND CAP EXIST. 8" AFTER ACCEPTANCE AND TRANSFER OF SERVICE
PROP. DBL. METER BOX 1-1/2" WATER SERVICE (TYP.)
PROP. 123 L.F. 8" P.V.C. W.M.
6641 SW 8TH ST
CUT-IN NEW 6" 45° BEND 6" GATE VALVE 27+79.00, 17.84'L
BLOCK 29 BOULEVARD HEIGHTS SECTION TEN P.B. 51, PG. 15, B.C.R.
PROP. 53 L.F. 8" P.V.C. W.M.
SW 8th STREET
PROP. 30 L.F. 8" P.V.C. W.M.
B.S.P. No.8
PROP. 2" TERMINAL BLOW-OFF 27+63.64, 8.02' R
PROP. 105 L.F. 12" P.V.C. W.M.
CUT AND CAP EXIST. 2" AFTER ACCEPTANCE AND TRANSFER OF SERVICE
PROP. 8"x8" TEE (2)-8" GATE VALVES 25+64.98, 8.00'R
PROP. 117 L.F. 8" P.V.C. W.M.
B.S.P. No.28
PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 26+23.78, 32.10'R
PROP. 21 L.F. 8" P.V.C. W.M.
PROP. 8"x8" TEE (2)-8" GATE VALVES 27+10.98, 8.00'R
PROP. 8"x8" TEE 6" 45° BEND 27+57.64, 8.02'R
PROP. 8"x2" TAPPING SADDLE AND 2" CORP. STOP, 2" P.E. TUBING CONNECT TO EXIST. 2" GSP W/ COUPLING 11+45.78, 8.00'L
REPAIR/REPLACE 20 L.F. SECTION OF 8" SEWER MAIN WITH 8" DIP
6650 SW 8TH ST
6640 SW 8TH ST
BLOCK 30 BOULEVARD HEIGHTS SECTION TEN P.B. 51, PG. 15, B.C.R.
6660 SW 8TH ST
PROP. 20 L.F. 8" D.I.P. W.M.
CUT-IN 2" PLUG AND ABANDON EXIST. 2" W.M. (WEST) UPON COMPLETION AND CERTIFICATION OF 8" P.V.C. W.M. 11+45.72, 14.50'L
REPAIR/REPLACE 20 L.F. SECTION OF 8" SEWER MAIN WITH 8" DIP
BLOCK 5 HOLLYWOOD RIDGE P.B. 12, PG. 38, B.C.R.
6651 SW 9TH ST
PROP. 117 L.F. 8" P.V.C. W.M.
PROP. FIRE HYDRANT 12"x6" TEE, 6" G.V. 42+33.36, 41.90'L
B.S.P. No.29
PROP. 2" TERMINAL BLOW-OFF 42+40.93, 7.93'L
PROP. 65 L.F. 12" P.V.C. W.M.
PROP. 12" G.V. 42+37.88, 7.95'L
B.S.P. No.9
PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 19+24.33, 27.05'R
PROP. 8"x8" TEE 8" GATE VALVE 20+00.64, 8.00'R
PROP. 46 L.F. 8" P.V.C. W.M.
PROP. 8" 11.25° BEND 12+34.36, 7.59'R
PROP. 133 L.F. 8" P.V.C. W.M.
PROP. 20 L.F. 8" D.I.P. W.M.
PROP. 230 L.F. 8" P.V.C. W.M.
PROP. 8"x8" TEE (2)-8" GATE VALVES 22+30.94, 8.00'R
PROP. 229 L.F. 8" P.V.C. W.M.
PROP. 8"x8" TEE (2)-8" GATE VALVES 24+59.97, 8.00'R
EXIST. BACKYARD WATER METERS AND BOXES TO BE REMOVED TYP. (SEE DETAIL)
6830 SW 8TH ST
6810 SW 8TH ST
6800 SW 8TH ST
6740 SW 8TH ST
6730 SW 8TH ST
6720 SW 8TH ST
6710 SW 8TH ST
6700 SW 8TH ST
6831 SW 9TH ST
B.S.P. No.31
PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 10+64.57, 33.20'L
PROP. 19 L.F. 8" P.V.C. W.M.
PROP. 12"x8" TEE 12" GATE VALVE 8" GATE VALVE 36+36.53, 7.98'L
B.S.P. No.10
6811 SW 9TH ST
6801 SW 9TH ST
6731 SW 9TH ST
6721 SW 9TH ST
6711 SW 9TH ST
6701 SW 9TH ST
PROP. DBL. METER BOX 1-1/2" WATER SERVICE (TYP.)
PROP. 1" SINGLE WATER SERVICE (TYP.)
PROP. FIRE HYDRANT 12"x6" TEE, 6" G.V. 39+09.04, 41.90'L
B.S.P. No.30
PROP. 12"x8" TEE 12" GATE VALVE 8" GATE VALVE 41+75.43, 7.97'L
PROP. 273 L.F. 12" P.V.C. W.M.
PROP. 266 L.F. 12" P.V.C. W.M.
WASHINGTON STREET (SW 9th STREET)

NOTE: SEE SHEET WM8 FOR CONFLICTS DUE TO SHEET LIMITATIONS

KEY MAP
SCALE N.T.S.
WM1 WM2 WM3 WM4 WM5 WM6 WM7 WM8 WM9 WM10 WM11

NOTES:
1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.

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1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514

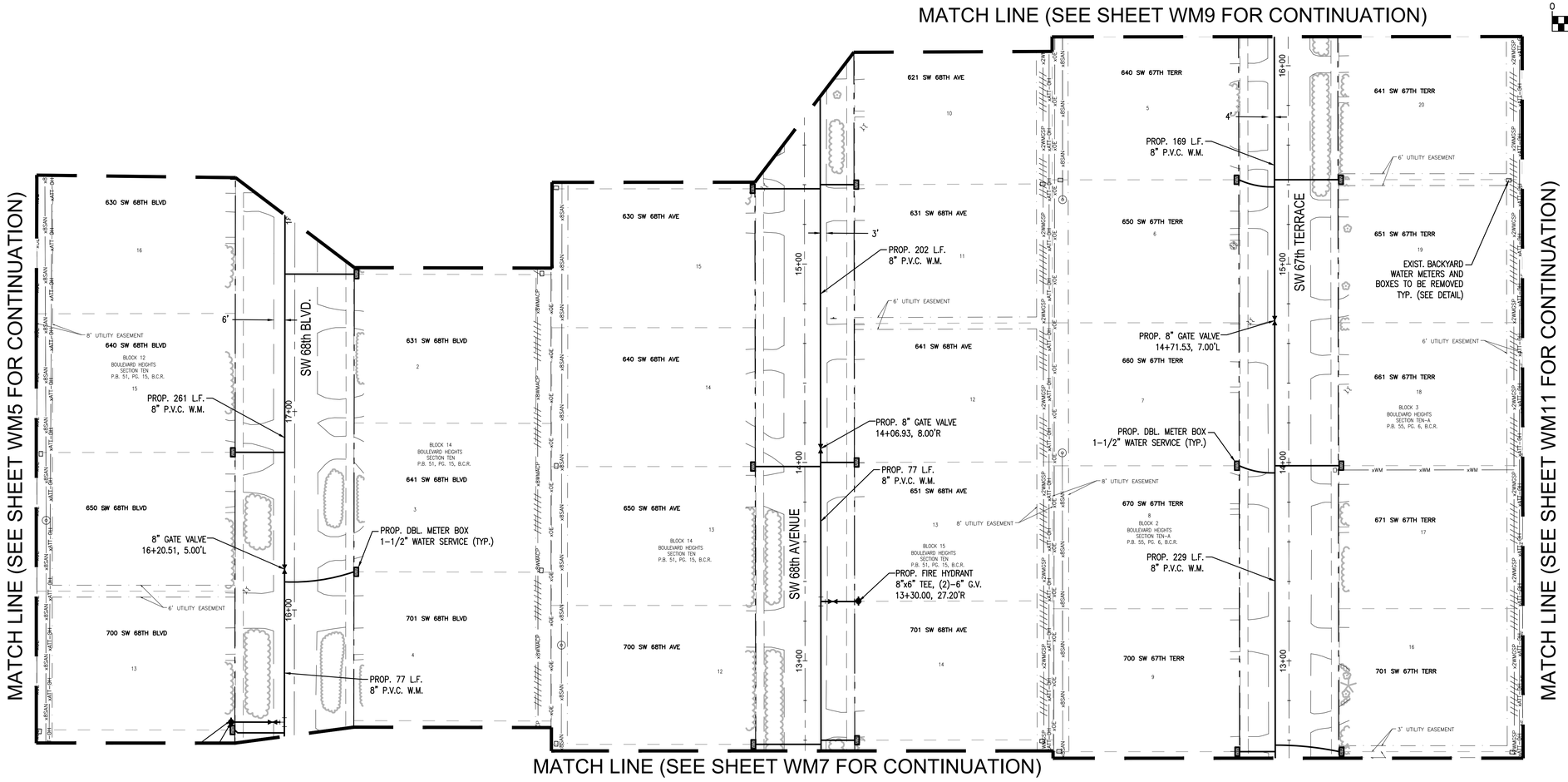
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM7

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Monday, July 09, 2018 10:50:14 AM)



GRAPHIC SCALE
0 15 30 60
(IN FEET)
1" = 30'

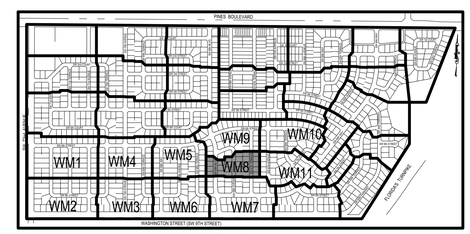
SEE SHEET WM7 FOR CONFLICT LOCATIONS

CONFLICTS

NO.	PIPES	CLEARANCE
K6	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
K7	Existing 6" ACP WM BOP 4.10 ft Below Surface Over Proposed 8" PVC WM TOP 5.10 ft Below Surface	12"
K8	Proposed 8" DIP WM BOP 3.38 ft Below Surface Over Existing 15" RCP TOP 3.88 ft Below Surface	6"
K9	Existing 2" WM 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 ft Below Surface	6"
K10	Existing ATT Over Proposed 8" PVC WM	12" MIN.
K11	Existing ATT Over Proposed 6" PVC WM	12" MIN.
L3	Proposed 8" PVC WM 3.76 ft Below Surface Existing 6" ACP WM 4.33 ft Below Surface	6"
M3	Existing 8" Clay SS BOP 4.40 ft Below Surface Over Proposed 8"DIP WM TOP 5.90 ft Below surface	18"
M4	Existing 6" ACP WM 3.25 ft Below Surface Over Proposed 8" PVC WM BOP 4.25 ft Below Surface	12"
N4	Proposed 8" DIP WM BOP 3.65 ft Below Surface Over Existing 8" Clay SS TOP 5.15 ft Below Surface	18"
N5	Existing 8" ACP WM BOP 3.95 ft Below Surface Over Proposed 8" PVC WM TOP 4.95 ft Below Surface	12"
N7	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
N8	Existing 2" WM 3.25 ft Below Surface Over Proposed 8" PVC WM 3.75 ft Below Surface	6"
N9	Proposed 8" DIP WM BOP 3.24 ft Below Surface Over Existing 8" Clay SS TOP 4.74 ft Below Surface	18"

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.



KEY MAP
SCALE N.T.S.

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

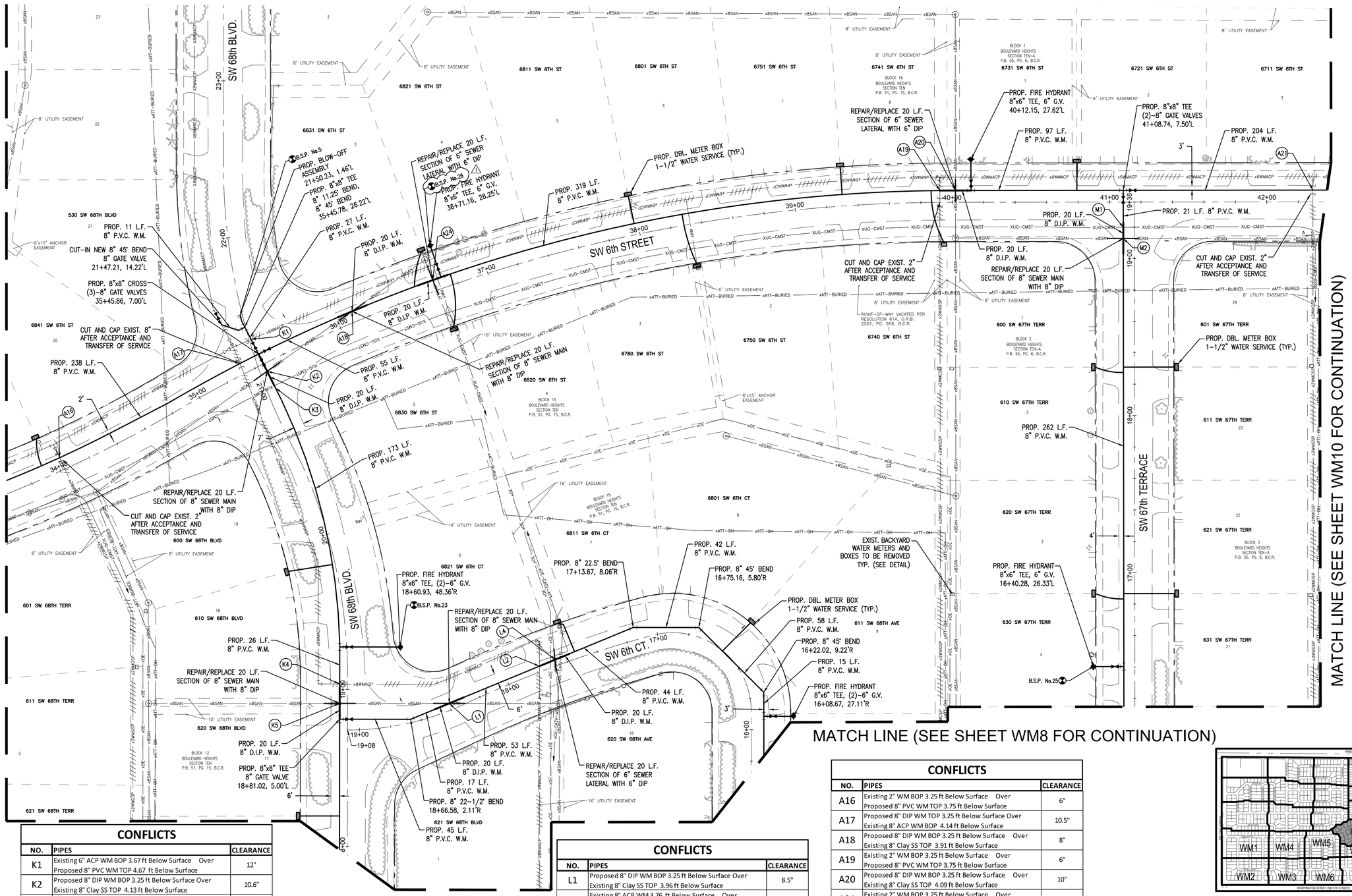
DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: WM8

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 2:31:34 PM)



CONFLICTS

NO.	PIPES	CLEARANCE
K1	Existing 6" ACP WM BOP 3.67 ft Below Surface Over Proposed 8" PVC WM TOP 4.67 ft Below Surface	12"
K2	Proposed 8" DIP WM BOP 3.25 ft Below Surface Over Existing 8" Clay SS TOP 4.13 ft Below Surface	10.6"
K3	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
K4	Existing 8" WM BOP 3.76 ft Below Surface Over Proposed 8" PVC WM TOP 4.76 ft Below Surface	12"
K5	Proposed 8" DIP WM TOP 2.65 ft Below Surface Over Existing 8" Clay SS TOP 4.15 ft Below Surface	18"

CONFLICTS

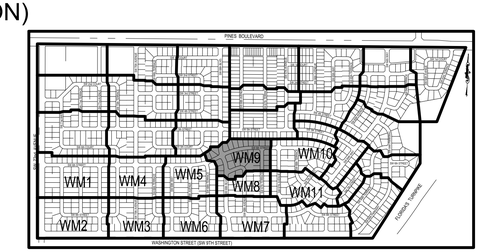
NO.	PIPES	CLEARANCE
L1	Proposed 8" DIP WM BOP 3.25 ft Below Surface Over Existing 8" Clay SS TOP 3.96 ft Below Surface	8.5"
L2	Existing 8" ACP WM 3.76 ft Below Surface Over Proposed 8" PVC WM 4.76 ft Below Surface	12"
L4	Existing 6" Clay San Lat BOP ft Below Surface Over Proposed 8" DIP WM TOP ft Below Surface	12" MIN.
M1	Existing UG Comcast Over Proposed 8" PVC WM	12" MIN.
M2	Proposed 8" DIP WM BOP 3.25 Below Surface Over Existing 8" Clay SS TOP 4.75 ft Below Surface	18"

CONFLICTS

NO.	PIPES	CLEARANCE
A16	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A17	Proposed 8" DIP WM TOP 3.25 ft Below Surface Over Existing 8" ACP WM BOP 4.14 ft Below Surface	10.5"
A18	Proposed 8" DIP WM BOP 3.25 ft Below Surface Over Existing 8" Clay SS TOP 3.91 ft Below Surface	8"
A19	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.75 ft Below Surface	6"
A20	Proposed 8" DIP WM BOP 3.25 ft Below Surface Over Existing 8" Clay SS TOP 4.09 ft Below Surface	10"
A21	Existing 2" WM BOP 3.25 ft Below Surface Over Proposed 8" PVC WM TOP 3.50 ft Below Surface	6"
A24	Existing 6" Clay San Lat BOP ft Below Surface Over Proposed 8" DIP WM TOP ft Below Surface	12" MIN.

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.



KEY MAP
SCALE N.T.S.

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1	07/10/18	ADDENDUM NO. 1	NWK

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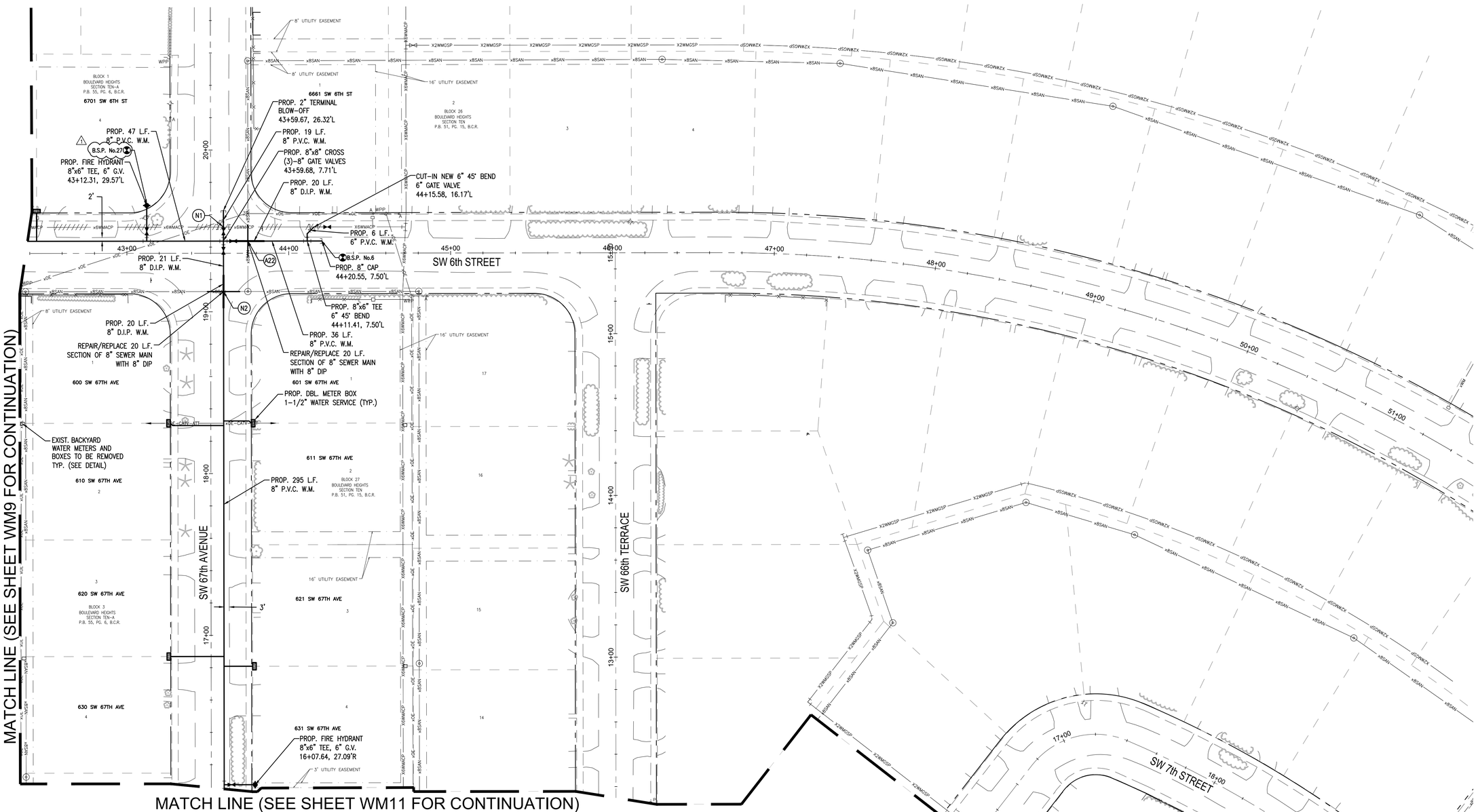
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

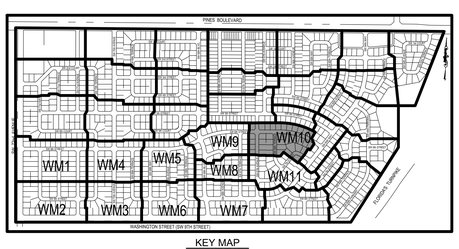
PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM9

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg – (Plotted by: Mike Orefice on Monday, July 09, 2018 10:53:37 AM)





KEY MAP
SCALE N.T.S.

CONFLICTS

NO.	PIPES	CLEARANCE
A22	Proposed 8" DIP WM BOP 3.50 ft Below Surface Existing 8" Clay SS TOP 5.00 ft Below Surface Over	18"
N1	Existing 6" ACP WM BOP 3.46 ft Below Surface Over Proposed 8" PVC WM TOP 4.46 ft Below Surface	12"
N2	Proposed 8" DIP WM BOP 3.76 ft Below Surface Over Existing 8" Clay SS TOP 5.35 ft Below Surface	19"

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. EXISTING WATER METERS ON PLAN ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION.

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1	07/10/18	ADDENDUM NO. 1	NWK				

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JULY 10, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: WM10

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Monday, July 09, 2018 10:54:51 AM)

MATCH LINE (SEE SHEET WM10 FOR CONTINUATION)

MATCH LINE (SEE SHEET WM8 FOR CONTINUATION)

MATCH LINE

(SEE SHEET WM7 FOR CONTINUATION)

640 SW 67TH AVE
650 SW 67TH AVE
660 SW 67TH AVE
670 SW 67TH AVE
700 SW 67TH AVE
641 SW 67TH AVE
651 SW 67TH AVE
661 SW 67TH AVE
6651 SW 7TH ST
6660 SW 7TH ST

SW 67th AVENUE

SW 7th STREET

SW 64th WAY

SW 8th STREET

PROP. 1" SINGLE WATER SERVICE (TYP.)

PROP. 229 L.F. 8" P.V.C. W.M.

PROP. DBL. METER BOX 1-1/2" WATER SERVICE (TYP.)

PROP. FIRE HYDRANT 8"x6" TEE, 6" G.V. 13+02.05, 27.28'R

CUT AND CAP EXIST. 6" AFTER ACCEPTANCE AND TRANSFER OF SERVICE

PROP. 42 L.F. 8" P.V.C. W.M.

CUT-IN NEW 6" 45° BEND 6" GATE VALVE 12+74.83, 31.77'R

EXIST. FIRE HYDRANT TO REMAIN

PROP. 229 L.F. 8" P.V.C. W.M.

PROP. 8"x8" TEE (2)-8" GATE VALVES 12+59.65, 7.91'R

PROP. 15 L.F. 6" P.V.C. W.M.

B.S.P. No.7

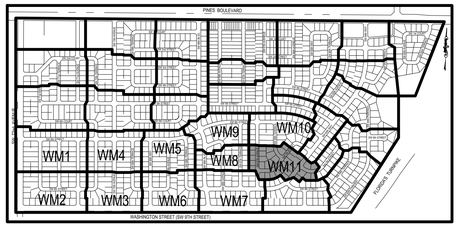
PROP. 2" TERMINAL BLOW-OFF 10+28.43, 4.28'L

PROP. 20 L.F. 8" P.V.C. W.M.

PROP. 8"x6" TEE 12+59.60, 20.96'R

PROP. 123 L.F. 8" P.V.C. W.M.

N3



KEY MAP
SCALE N.T.S.

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1" = 30'

CONFLICTS

NO.	PIPES	CLEARANCE
N3	Existing 6" ACP WM BOP 4.28 ft Below Surface Over Proposed 8" PVC WM TOP 4.78 ft Below Surface	6"

NOTES:

1. ALL EXISTING DEPTHS ARE APPROXIMATE, CONTRACTOR TO VERIFY.
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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PROPOSED WATER MAIN PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: WM11

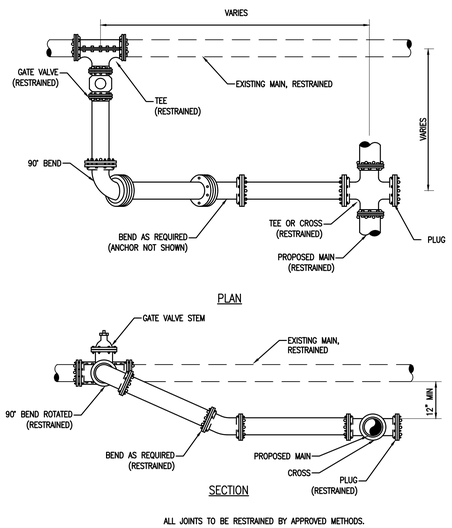
File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_PLAN.dwg - (Plotted by: Mike Orefice on Wednesday, June 06, 2018 2:33:43 PM)

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	Water Main; 3 ft. minimum	Water Main; 18 inches is the minimum	Alternate 3 ft. minimum; Water Main
VACUUM SANITARY SEWER	Water Main; 10 ft. preferred, 3 ft. minimum	Water Main; 18 inches is the minimum	Alternate 3 ft. minimum; Water Main
GRAVITY SANITARY SEWER.(3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	Water Main; 10 ft. preferred, 6 ft. minimum	Water Main; 18 inches is the minimum	Alternate 6 ft. minimum; Water Main
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft. minimum	——	——

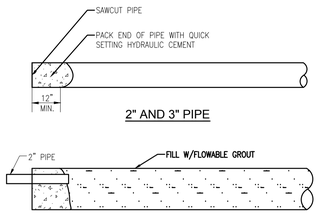
(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, PIPE SHALL BE DIP.
(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.

WATER MAIN SEPARATION



ALL JOINTS TO BE RESTRAINED BY APPROVED METHODS.

TYPICAL CONNECTION TO EXISTING MAIN

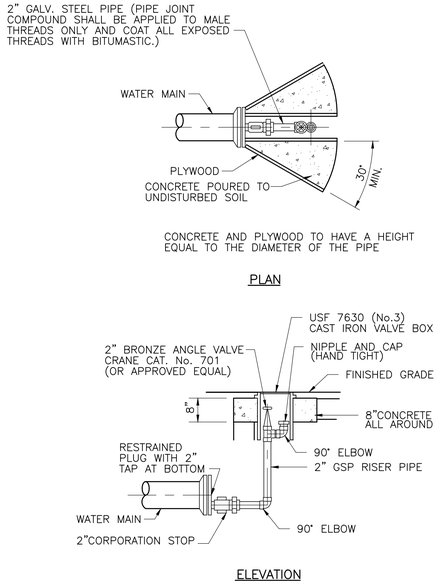


NOTES:

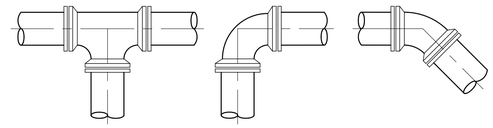
1. INSTALL 2" PIPE AT BOTH ENDS OF LINE TO BE ABANDONED. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE FROM 2" PIPE(S). REMOVE 2" PIPE AND FILL WITH QUICK SETTING HYDRAULIC CEMENT.

4" AND LARGER PIPE

GROUT IN PLACE DETAIL



2" TERMINAL BLOW-OFF

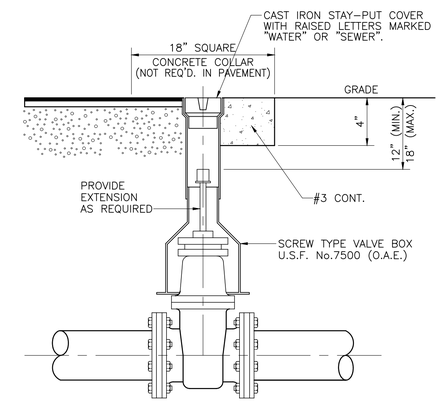


TEE & WYE 90° BEND 45° & 22 1/2° BEND

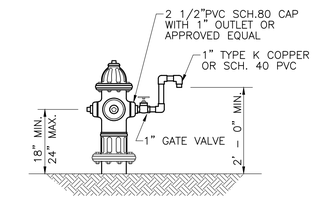
	RESTRAINED PIPE LENGTH (LINEAL FEET)				
PIPE SIZE	TEE & WYE	90°BEND	45°BEND	22 1/2°BEND	11 1/4°BEND
6"	27	27	16	9	5
8"	34	34	20	11	6
10"	41	41	24	14	7
12"	48	48	28	16	8
14"	55	55	32	18	10
16"	62	62	35	20	11
18"	69	69	39	22	12
20"	75	75	42	24	13
24"	87	87	49	27	14
30"	104	104	57	31	17
36"	120	120	65	35	19
42"	134	134	72	39	21
48"	147	147	79	42	22
54"	160	160	85	45	24

NOTE:
THE FIGURES IN THIS TABLE ARE BASED ON 150 PSI TEST PRESSURE WITH 2.5 FEET OF COVER AND 2000 POUNDS PER SQUARE FOOT SOIL BEARING AGAINST UNDISTURBED TRENCH. A 20% SAFETY FACTOR HAS BEEN ADDED.

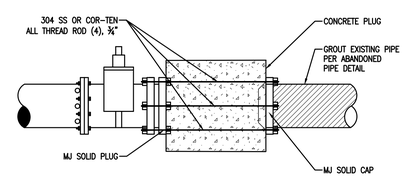
RESTRAINED JOINT DETAIL

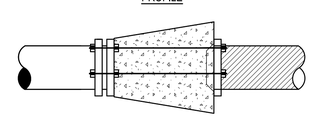


VALVE AND BOX DETAIL



HYDRANT CONNECTION





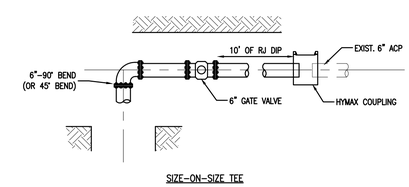
PLAN

AT EXISTING VALVE OR FITTING

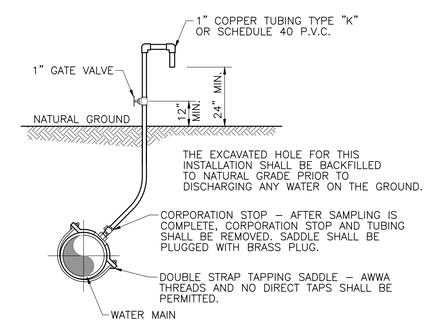
SEQUENCE OF CONSTRUCTION

1. RESTRAIN VALVE OR FITTING. CONTRACTOR TO PROVIDE TEMPORARY RESTRAINT AS REQUIRED.
2. REMOVE EXISTING PIPE FOR NEW CONCRETE PLUG.
3. INSTALL PLUG INTO BELL OF VALVE OR FITTING AND CAP ON END OF EXISTING PIPE TO BE ABANDONED.
4. INSTALL ALL THREAD RODS (COATED, 3/4" DIA., MIN) AND POUR CONCRETE PLUG.

LIVE LINE SEALING



RESTRAINED JOINT REQUIREMENTS FOR CONNECTION TO ASBESTOS CEMENT PIPE



MAIN CONNECTION

NOTE:
SEE 2" TERMINAL BLOW OFF ALSO.

TYPICAL SAMPLING POINTS

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Certificate of Authorization 514

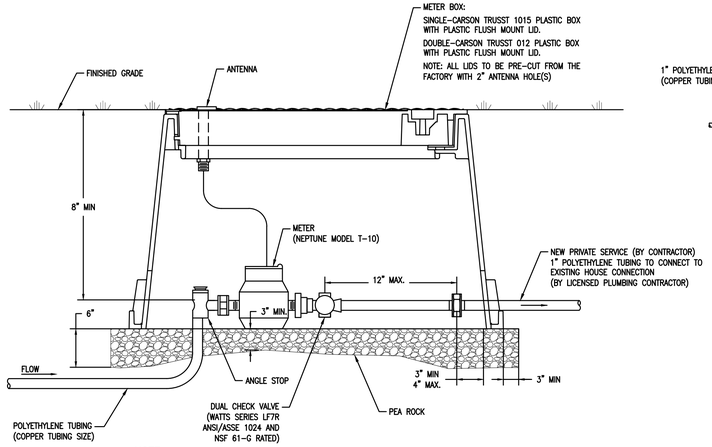
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

WATER DETAILS

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JUNE 6, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM12

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_DTL.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 4:30:08 PM)

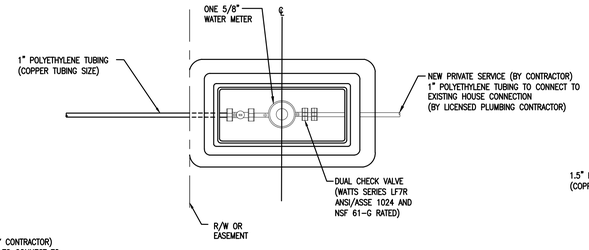


NOTE:

1. CONTRACTOR SHALL PROVIDE ALL LABOR AND APPURTENANCES TO INSTALL COMPLETE WORKING WATER METER SYSTEM.

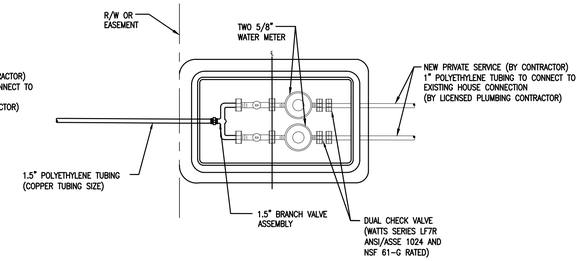
PARTS NUMBER(S)
METER – E02B31RW63
ANTENNA – 12527-200

TYPICAL METER BOX INSTALLATION FOR 5/8" METERS



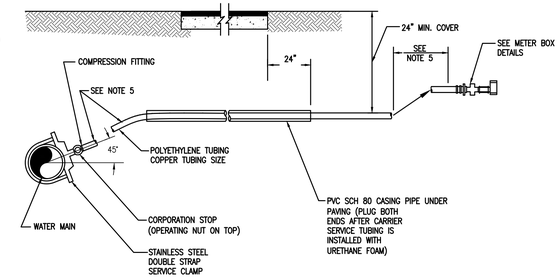
1. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS SHALL BE 21" FOR 1.5" POLY TUBING.
2. WHEN SIDEWALKS ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
3. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID (SEE DETAIL ON THIS SHEET).

SINGLE WATER METER CONNECTION FOR 5/8" METERS



1. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS SHALL BE 21" FOR 1.5" POLY TUBING.
2. WHEN SIDEWALKS ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
3. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID (SEE DETAIL ON THIS SHEET).

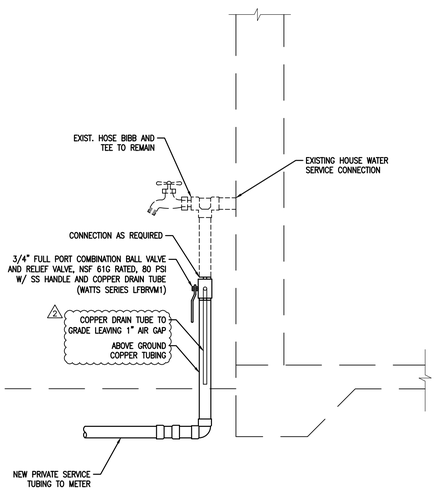
DOUBLE WATER METER CONNECTION FOR TWO 5/8" METERS



1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. NO TAPS SHALL BE CLOSER THAN 18" TO A JOINT.
2. 1.5" SERVICES REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
3. 2" SERVICES REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
4. ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVING STREETS.
5. FOR 2" AND 1.5" SERVICE LINES THE MINIMUM RADIUS SHALL BE 21".
6. ALL CASING PIPE ENDS SHALL BE FILED SMOOTH WITH NO BURRS AND SEALED WITH URETHANE FOAM.

THIS DETAIL APPLIES ONLY TO RESIDENTIAL ROADS WITH LESS THAN 70' R.O.W. (NO MEDIAN) OR WITHIN EASEMENTS

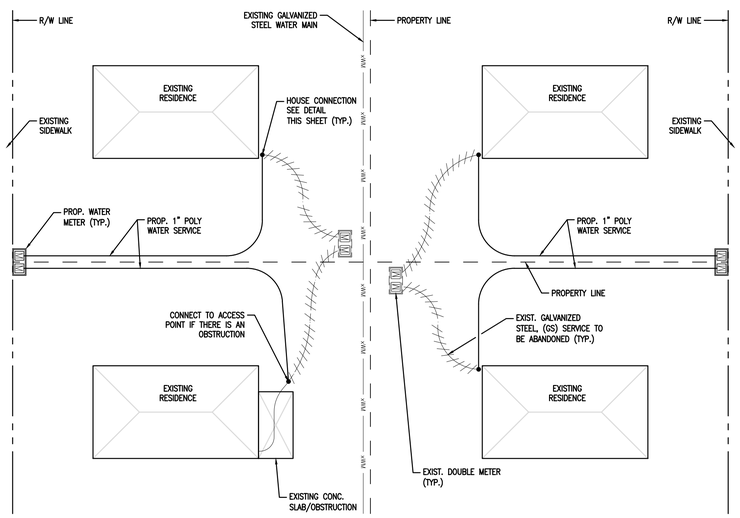
TYPE 1 WATER SERVICE CONNECTION



NOTES:

1. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBER, PER FBC 2017.
2. WHERE PHYSICAL OBSTRUCTIONS EXIST. AT THE HOUSE CONNECTION, ROUTE DRAIN TUBE TO THE NEAREST ADJACENT PERVIOUS GRADE.
3. A PLUMBING PERMIT IS REQUIRED TO BE SUBMITTED BY A LICENSED PLUMBING CONTRACTOR AS PER THE BROWARD COUNTY ADMINISTRATIVE PROVISIONS FOR THE 2017 FLORIDA BUILDING CODE, 6TH EDITION, SECTION 105.3.1.4.4.
4. AN APPROVED THERMAL EXPANSION CONTROL DEVICE IS REQUIRED TO BE INSTALLED AS PER FBC 2017, 6TH ED., RESIDENTIAL, SEC. P2903.
5. ROUGH INSPECTION: THE BURIAL DEPTH FOR THE WATER SUPPLY LINE IS REQUIRED TO BE A MINIMUM OF 12 INCH TO THE TOP OF THE WATER LINE WITH CLEAN BACKFILL AS PER FBC 2017, 6TH ED, RESIDENTIAL, SEC P26604.3. IF THE WATER LINE IS TRENCHED OR JUKED INTO THE EARTH, THE TRENCH MUST BE KEPT OPEN AT THE WATER METER / CHECK VALVE, HOUSE CONNECTION, ONE POINT IN BETWEEN AND AT ALL JOINTS FOR THE ROUGH INSPECTION. IF DIRECTIONAL BORE A COPY OF THE BURIAL DEPTH WILL NEED TO BE PROVIDED.
6. FINAL INSPECTION: ALL BACKFILL COMPLETED WITH SOD AND WATER SUPPLY LINE COMPLETED AS PER CODE.
7. PRESSURE/RELIEF VALVE IS SHOWN FOR PICTORIAL PURPOSES ONLY. VALVE SHALL BE INSTALLED SO THAT THE HANDLE AND RELIEF PORT ARE PARALLEL TO THE WALL. STUCCO/WALL SHALL BE CUT, AS NEEDED, TO INSTALL THE NEW VALVES AND PIPING AND THEN RESTORED TO ITS PRECONSTRUCTION CONDITION OR BETTER.

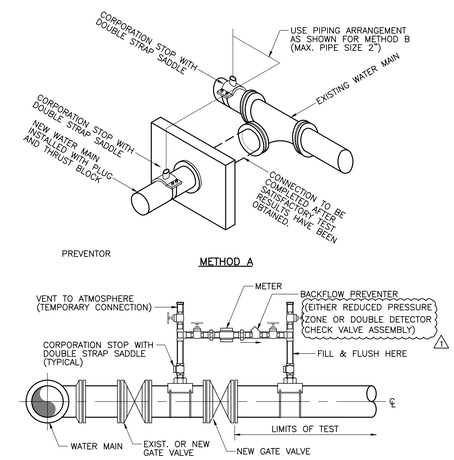
HOUSE CONNECTION DETAIL



NOTES:

1. REMOVE EXIST. METERS AND BOXES, TAG, AND RETURN TO THE CITY (SEE NOTES 23, 24 AND 25 ON SHEET G2).
2. REMOVE EXISTING METER BOX, BACKFILL WITH SAND AND TOPSOIL MIX, COMPACT AND SOD.
3. WHERE THERE IS AN OBSTRUCTION AT THE HOUSE CONNECTION, SUCH AS A CONCRETE SLAB, CONTRACTOR SHALL CONNECT TO EXISTING SERVICE AT THE NEAREST ACCESSIBLE POINT AS SHOWN ABOVE. CONTRACTOR SHALL STILL BE REQUIRED TO CUT-IN A NEW SHUTOFF/RELIEF VALVE AT THE HOUSE CONNECTION (SEE HOUSE CONNECTION DETAIL ON THIS SHEET).
4. CONTRACTOR TO RESTORE ALL SURFACES ON PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION.
3. A PLUMBING PERMIT IS REQUIRED TO BE SUBMITTED BY A LICENSED PLUMBING CONTRACTOR AS PER THE BROWARD COUNTY ADMINISTRATIVE PROVISIONS FOR THE 2017 FLORIDA BUILDING CODE, 6TH EDITION, SECTION 105.3.1.4.4.
4. AN APPROVED THERMAL EXPANSION CONTROL DEVICE IS REQUIRED TO BE INSTALLED AS PER FBC 2017, 6TH ED., RESIDENTIAL, SEC. P2903.
5. ROUGH INSPECTION: THE BURIAL DEPTH FOR THE WATER SUPPLY LINE IS REQUIRED TO BE A MINIMUM OF 12 INCH TO THE TOP OF THE WATER LINE WITH CLEAN BACKFILL AS PER FBC 2017, 6TH ED, RESIDENTIAL, SEC P26604.3. IF THE WATER LINE IS TRENCHED OR JUKED INTO THE EARTH, THE TRENCH MUST BE KEPT OPEN AT THE WATER METER / CHECK VALVE, HOUSE CONNECTION, ONE POINT IN BETWEEN AND AT ALL JOINTS FOR THE ROUGH INSPECTION. IF DIRECTIONAL BORE, A COPY OF THE BURIAL DEPTH WILL NEED TO BE PROVIDED.
6. FINAL INSPECTION: ALL BACKFILL COMPLETED WITH SOD AND WATER SUPPLY LINE COMPLETED AS PER CODE.

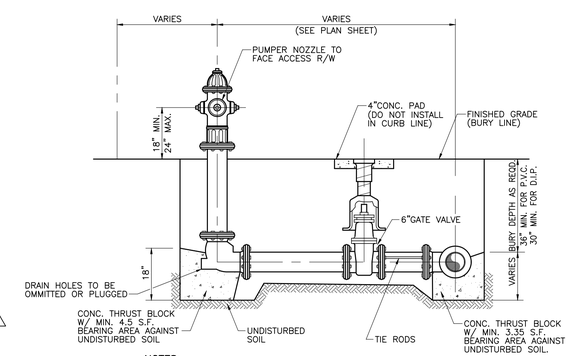
TYPICAL EXIST. BACKYARD METER CONNECTION DETAIL



NOTES:

1. WATER MAIN TO BE PRESSURE TESTED AND DISINFECTED ACCORDING TO BROWARD COUNTY PUBLIC HEALTH UNIT REGULATIONS, AWWA, AND MUNICIPAL SPECIFICATIONS IN EFFECT.
2. BACTERIOLOGICAL TESTS ARE TO BE PERFORMED BY THE CONTRACTOR AND AN APPROVED TESTING LABORATORY.
3. REMOVE TEMPORARY CONNECTION AT SADDLE ON NEW MAINS AFTER FILLING AND FLUSHING HAS BEEN COMPLETED AND REPLACE WITH BRASS PLUG.
4. PROVIDE ALL NECESSARY THRUST BLOCKS OR OTHER RESTRAINTS.
5. FILLING AND FLUSHING LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR, ENGINEER, AND CITY.
6. VENT TO ATMOSPHERE SHALL REMAIN OPEN DURING ALL PHASES OF PRESSURE TESTING.

FILLING AND FLUSHING CONNECTION



NOTES:

1. TIE RODS MAY BE OMITTED WHEN OTHER APPROVED ANCHORS ARE USED.
2. HYDRANT SET BACK SHALL CONFORM TO D.O.T. REQUIREMENTS WHERE APPLICABLE.
3. HYDRANT CENTERLINE TO BE LOCATED AT P.C. OF BLOCK CORNER RADIUS OR AT COMMON PROPERTY LINE BETWEEN ADJACENT LOTS.
4. HYDRANT SHALL BE 3 WAY 5 1/4" WITH 3'-6" BURY DEPTH. PUMPER NOZZLE TO FACE STREET. PAINT OSHA YELLOW.
5. HYDRANT VALVE TO BE INSTALLED AS CLOSE TO MAIN AS POSSIBLE.
6. HYDRANT BURY LINE TO MATCH STREET CROWN ELEVATION.
7. TIE RODS SHALL BE 2 EA. 5/8" GALV. AND COATED WITH KOPPERS 300M OR APPROVED EQUAL.
8. A 7.5 FOOT CLEAR RADIUS SHALL BE MAINTAINED AROUND HYDRANT.

FIRE HYDARNT DETAIL

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NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
2	07/11/18	ADDENDUM NO. 2	NWK				
1	07/10/18	ADDENDUM NO. 1	NWK				

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1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514

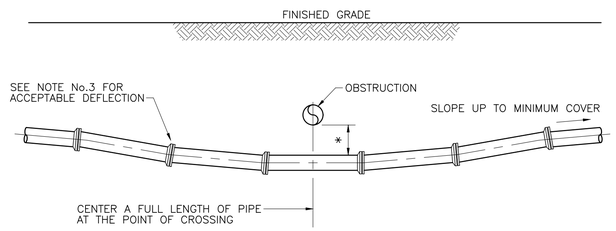
PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

WATER DETAILS

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 11, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM13

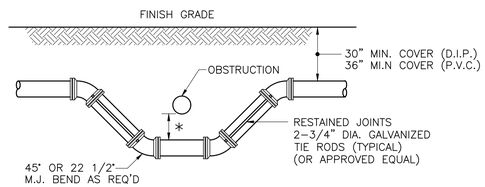
File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_DTL.dwg – (Plotted by: Nicholas Kanelidis on Wednesday, July 11, 2018 10:47:58 AM)



NOTES:

1. (*) 18" MINIMUM CLEARANCE REQUIRED FOR WATER AND SEWER MAIN CROSSINGS, 12" MINIMUM CLEARANCE REQUIRED FOR OTHER UTILITY CROSSINGS.
2. THE DEFLECTION TYPE CROSSING SHALL BE USED WHENEVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
3. CONSTRUCT CROSSING USING 50% OF MANUFACTURES MAXIMUM JOINT DEFLECTION (MAXIMUM).

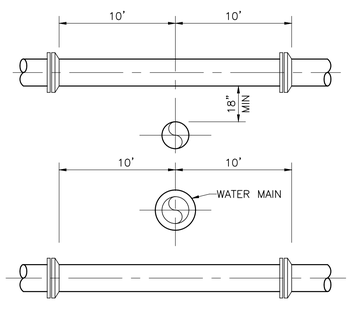
UTILITY CROSSING DEFLECTION TYPE



NOTES:

1. (*) 18" MINIMUM CLEARANCE REQUIRED FOR WATER AND SEWER MAIN CROSSINGS, 12" MINIMUM CLEARANCE REQUIRED FOR OTHER UTILITY CROSSINGS.
2. COAT TIE RODS WITH A COAL TAR ENAMEL AFTER ASSEMBLY (2 COATS MIN.).
3. TIE RODS MAY BE OMITTED WHEN OTHER APPROVED METHODS OF RESTRAINING ARE UTILIZED.

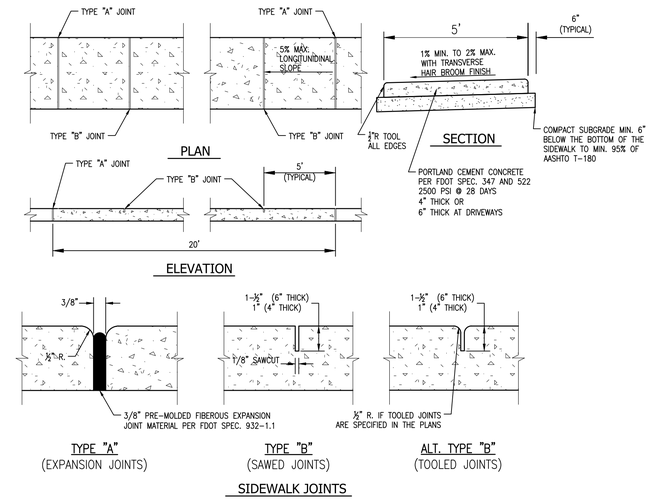
UTILITY CROSSING FITTING TYPE



NOTES:

1. A WATER MAIN SHOULD CROSS OVER PIPES WHEREVER POSSIBLE MAINTAINING A 36 INCH COVER FOR PVC, 30 INCH COVER FOR D.I.P. AND 18 INCH SEPARATION AS MINIMUMS.
2. WHEREVER A WATER MAIN CROSSES UNDER A SEWER MAIN, OR CROSSES OVER WITH LESS THAN 18 INCHES VERTICAL SEPARATION, THEN D.I.P. SHALL BE USED FOR BOTH PIPES FOR A DISTANCE OF 20 FEET CENTERED ON CROSSING WITH NO JOINTS WITHIN 10 FEET OF THE CROSSING.
3. 18 INCH SEPARATION SHOULD BE MAINTAINED BETWEEN ALL PIPES (STORM, SEWER, WATER) WHENEVER POSSIBLE. 12 INCHES IS THE ABSOLUTE MINIMUM SEPARATION WITH D.I.P. REQUIRED FOR ANY SEPARATION LESS THAN 18 INCHES.
4. MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN WATER AND SEWER AS A MINIMUM.
5. 3 FOOT HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN UTILITIES AND ANY OBSTRUCTIONS (CATCH BASINS, CONCRETE POLES, ETC.)
6. 5 FOOT HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN UTILITIES AND TREES.

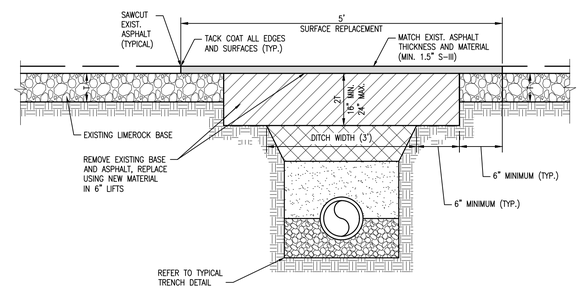
UTILITY CROSSING GENERAL REQUIREMENTS



SIDEWALK JOINTS	
TYPE	LOCATION
"A"	30'-0" CENTER TO CENTER P.C. AND P.T. OF CURVES. JUNCTION OF EXISTING AND NEW SIDEWALKS. WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES OR AT THE DISCRETION OF THE ENGINEER.
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS THROUGHOUT THE SITE.

CONCRETE SIDEWALK

SCALE:N.T.S. CURRENT



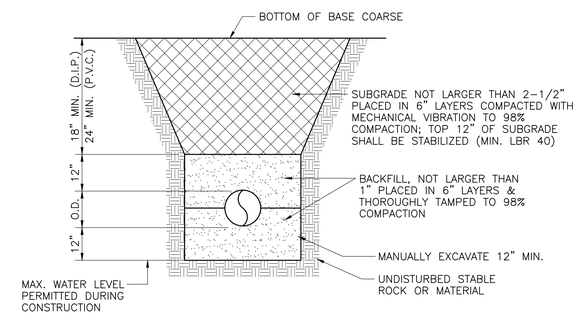
NOTES:

1. REFER TO GENERAL NOTES AND TECHNICAL SPECIFICATIONS FOR INSTALLATION AND MATERIAL REQUIREMENTS.
2. ALL EDGES OF THE EXISTING ASPHALT PAVEMENT WHERE RESURFACING WILL ABUT, SHALL BE SAWCUT IN STRAIGHT LINES PARALLEL TO OR PERPENDICULAR TO ROADWAY, PRIOR TO RESURFACING.
3. NEW LIMEROCK BASE SHALL HAVE A MINIMUM LBR OF 100.

PAVEMENT RESTORATION

SCALE: N.T.S. CURRENT

1



NOTES:

1. MAXIMUM DENSITY DETERMINED BY AASHTO T-180. TRENCH SHALL BE EXCAVATED AND COMPACTED FOR 12" ON EACH SIDE OF THE PIPE.
2. MAXIMUM DEPTH TO BOTTOM OF PRESSURE MAINS SHALL NOT EXCEED SIX (6) FEET UNLESS OTHERWISE APPROVED BY THE CITY OF PEMBROKE PINES UTILITY DEPARTMENT.

TYPICAL TRENCH DETAIL

1

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NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
1	07/10/18	ADDENDUM NO. 1	NWK				

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Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514

PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

WATER DETAILS

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JULY 10, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: WM14

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-WATR_DTL.dwg – (Plotted by: Nicholas Kanelidis on Monday, July 09, 2018 10:53:20 AM)

STORM WATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
PINES VILLAGE WATER MAIN REPLACEMENT
PEMBROKE PINES, FLORIDA

OWNER NAME AND ADDRESS:
CITY OF PEMBROKE PINES UTILITIES DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FL 33025

DESCRIPTION:
REPLACEMENT OF WATER MAINS, WATER SERVICES, WATER METERS, AAND FIRE HYDRANTS.

SOIL DISTURBING ACTIVITIES
SOIL DISTURBING ACTIVITIES WILL INCLUDE, UTILITY TRENCHING AND TRENCH RESTORATION.

RUNOFF CURVE NUMBERS:	CN
1. PRE-CONSTRUCTION	98
2. DURING CONSTRUCTION	98
3. POST-CONSTRUCTION	98

SITE MAPS:
REFER TO CONSTRUCTION PLANS

SITE AREA:
1. TOTAL AREA OWNED: 313.00 AC.
2. AREA TO BE DISTURBED: 10.38 AC. (PROJECT AREA)

NAME OF RECEIVING WATERS:
EXISTING ROADWAY DRAINAGE SYSTEM

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT
STORM WATER DRAINAGE WILL BE PROVIDED BY A POSITIVE DRAINAGE COLLECTION SYSTEM DISCHARING INTO EXISTING LAKE.

FOR THE PROJECT. AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, WHEN CONSTRUCTION IS COMPLETE, WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE ONSITE DRAINAGE SYSTEM. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY FEDERAL, STATE AND LOCAL REGULATIONS.

TIMING OF CONTROLS/MEASURES

REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

SFWMD PERMIT # _____

NPDES PERMIT # CONTRACTOR

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
2. INSTALL UNDERGROUND UTILITIES.
3. CONTINUE WITH E&S CONTROL MEASURES.
4. COMPLETE FINAL PAVING OPERATIONS.
5. REMOVE ACCUMULATED SEDIMENTS FROM STORM WATER MANAGEMENT SYSTEM.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS IN ACCORDANCE WITH THE SWPP PLAN.

ENDANGERED SPECIES AND CRITICAL HABITAT

1. ARE THERE ENDANGERED SPECIES ON SITE? NO.
2. ARE THERE CRITICAL HABITAT ON SITE? NO.

IF YES TO EITHER QUESTION, PLEASE EXPLAIN.

_____

_____

_____

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SWPP PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SWPP PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE GRADING, SWPP PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES (IF APPLICABLE):

1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW. DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

   REFER TO THE EROSION CONTROL DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE

3. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

4. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

5. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE MINIMIZED.

6. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

7. DUST CONTROL: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL TREATMENT WITHIN 30 DAYS SHALL BE STABILIZED.

8. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

9. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

10. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

11. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

12. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

13. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES (IF APPLICABLE):

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:

   A. BLOCK & GRAVEL SEDIMENT FILTER – THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

   B. GRAVEL SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS.

   C. DROP INLET SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE VOLUME OF THE BASIN AT CLEAN OUT SHALL BE 22 CUBIC YARDS PER ACRE.

THE 67 CUBIC YARDS OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL (IF APPLICABLE):

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS,WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

[X] Concrete	[ ] Fertilizers	[ ] Wood
[X] Asphalt	[ ] Petroleum Based Products	[ ] Masonry Blocks
[X] Tar	[ ] Cleaning Solvents	[ ] Roofing Materials
[ ] Detergents	[ ] Paints	[ ] Metal Studs
[ ] _____	[ ] _____	[ ] _____

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS
CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE.

EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 5 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.
  THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
  THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* WATER FROM WATER LINE FLUSHING
* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

RESPONSIBLE FOR/DUTIES	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	SIGNATURE
GENERAL CONTRACTOR		
SUB-CONTRACTOR		
SUB-CONTRACTOR		
SUB-CONTRACTOR		
SUB-CONTRACTOR		

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NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
–	–	.	–				

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514

PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

STORMWATER POLLUTION PREVENTION PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536
DATE: JUNE 6, 2018

SCALE: AS SHOWN
PROJECT No: 91-0134.1
SHEET: SWP1

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-SWPP_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:44:15 PM)

GRAPHIC SCALE
0 75 150 300
(IN FEET)
1"=150'

LEGEND

DROP INLET INTERNAL FILTER BAG

PROJECT AREA

NOTE(S):

1. THIS PLAN DEPICTS A SUGGESTED STORM WATER POLLUTION PREVENTION PLAN PER THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTORS MANUAL. CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION MEASURES WHICH SATISFY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S REQUIREMENTS.

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NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
–	–	.	–				

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

STORMWATER POLLUTION PREVENTION NOTES

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

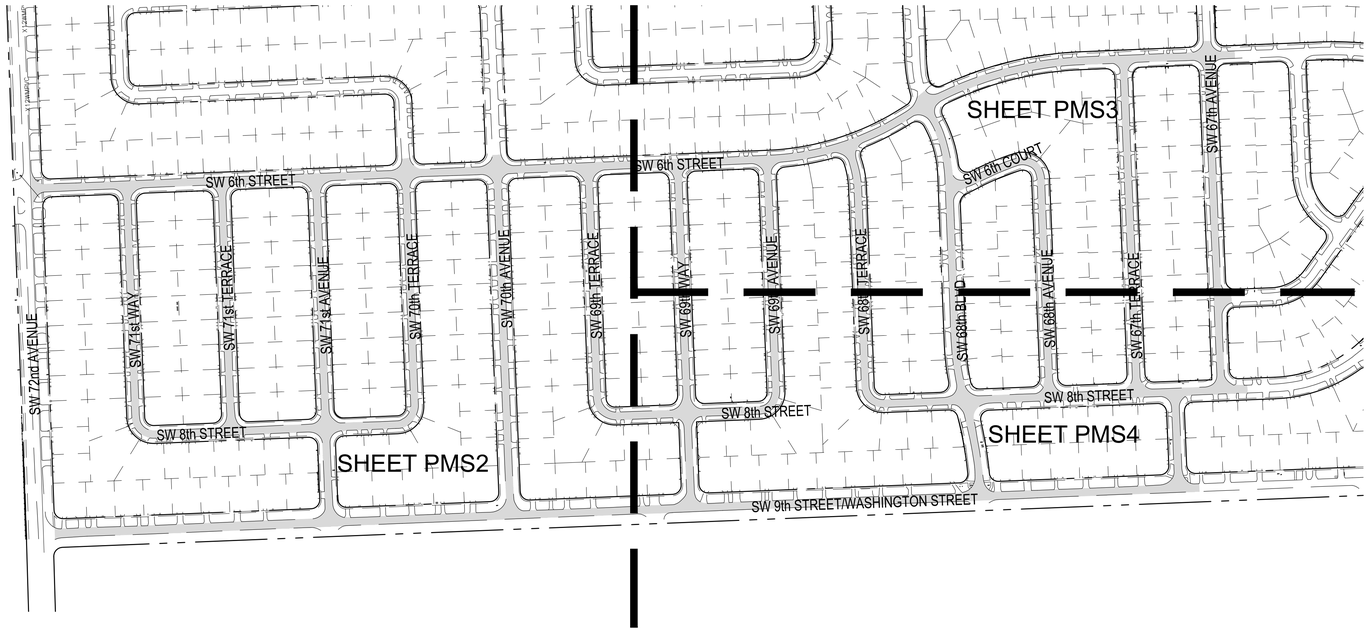
SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: SWP2

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-SWPP_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 4:09:48 PM)

BCTED REF #180502060



PAVEMENT MARKING KEY MAP

GRAPHIC SCALE

0 100 200 400

(IN FEET)
1"=200'

NOTES:

1. ALL EXISTING SIGNAGE TO REMAIN.
2. ALL PAVEMENT MARKINGS AND SIGNAGE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED ACCORDING TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
3. IN LOCATIONS WHERE A STOP SIGN EXISTS WITHOUT A STOP BAR, ADD A STOP BAR PER APPLICABLE STANDARD DETAILS.
4. ALL PROPOSED MARKINGS SHALL MATCH EXISTING MARKINGS, WHERE APPLICABLE.
5. EDGE LINE MARKINGS SHALL NOT BE INSTALLED IN CROSSWALK AREAS OR IN FRONT OF CURB RAMPS. EXISTING MARKINGS IN THESE AREAS SHALL BE COMPLETELY REMOVED.
6. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE MUTCD AND BCTED COMPLIANT.
7. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

PROJECT AREA WITHIN ROADWAY

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLINKER SIGNS(TYPICAL), RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLINKERS SIGNS (TYPICAL), RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGN AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

BROWARD COUNTY FLORIDA

Our Best BROWARD COUNTY Nothing Less.

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600 • FAX 954-847-2700

MAINTENANCE OF TRAFFIC - SCHOOL/PEDESTRIAN

The Maintenance of Traffic plan, provided by the Contractor, shall include provisions for pedestrian and/or school student traffic as well as vehicular traffic. The following are minimum requirements:

1. The safe walk route for all school students within the vicinity of the construction zone shall be maintained during student arrival and dismissal times. If the current walking surface cannot be maintained, then a temporary walkable surface shall be created. The safe walk route shall be separated from the construction activity during the entire length of the project encompassing the entire walk route with proper pedestrian openings at designated crossings in compliance with FDOT Design Standards Index No. 600 as well as meeting all ADA requirements.
2. All construction equipment activity around any designated crosswalk shall cease to operate during the student arrival and dismissal times. All construction equipment activity adjacent to a designated walk route shall cease operating unless satisfactorily barricaded from the walk route.
3. In the case that a designated crossing or any portion of the designated walk route cannot be maintained, the Contractor shall notify the Special Projects Coordinator at Broward County Traffic Engineering Division, (954) 847-2600, a minimum of ten (10) working days prior to closing that route in order to establish an alternate crossing/route.
4. It shall be the Contractor's responsibility to install any necessary pavement, road rock, pavement markings and signage and/or any pedestrian signalization and/or signal modification to accommodate an existing or alternate walk route throughout the entire length of the project.
5. It shall be the Contractor's responsibility to provide State Certified School Crossing Guards or Off Duty Police Officers to cross students at all locations other than those previously designated. The Contractor may use Flagmen, but **ONLY** if they are State Certified as a School Crossing Guard.
6. Thirty (30) days prior to the beginning of construction the Contractor shall notify the Special Projects Coordinator at Broward County Traffic Engineering Division, (954) 847-2600 or at broward@traffic.org to discuss all necessary safety measures.
7. It shall be the Contractor's responsibility to notify the following Broward County School Board Pupil Transportation Department personnel if construction will impact any bus routes:

• Ruth Masters	Routing	(754) 321-4400 Ext. # 2309	ruth.masters@browardschools.com
• Vincent Harrell	Student Transportation & Fleet Service	(754) 321-4472	vincent.harrell@browardschools.com
• Mary Tochtermann	Student Transportation & Fleet Service	(754) 321-4400 Ext. # 2006	mary.tochtermann@browardschools.com

Upon coordination with the aforementioned personnel, and if deemed necessary, a pre-construction meeting will be held to determine all bus routes and to make any necessary arrangements for rerouting. The Special Projects Coordinator from the Broward County Traffic Engineering Division, (954) 847-2600, will be notified and may attend the pre-construction meeting.

8. The Contractor shall be responsible for obtaining an approved Maintenance of Traffic Plan (MOT), specifying the above school/pedestrian conditions, through the Broward County Traffic Engineering Division or the Local Municipality, depending on the roadway jurisdiction. The conditions outlined in the MOT are fully effective as part of the proposed improvements. The Contractor shall be responsible for ensuring that all work associated with the project is in compliance with all the requirements of the approved MOT.
9. The Contractor shall ensure that there are **NO** speed limit signs installed within the designated reduced speed school zone at any time throughout the project.

Revised: 9/24/14

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–	–	.	–				

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Certificate of Authorization 514

PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PAVEMENT MARKING AND SIGNAGE KEY MAP

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

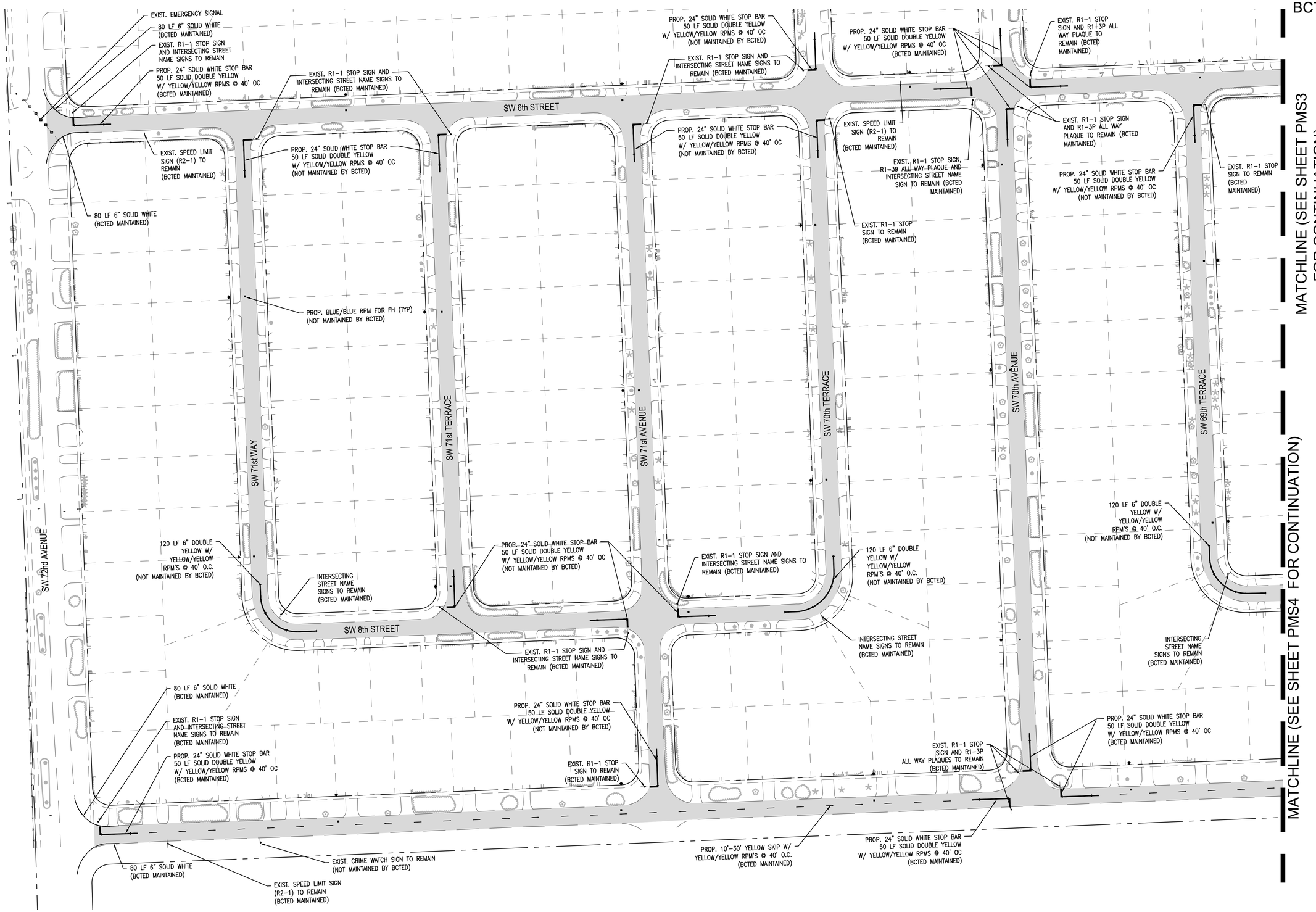
SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: PMS1

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-PMS_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:43:01 PM)

BCTED REF #180502060



NOTES:

1. ALL EXISTING SIGNAGE TO REMAIN.
2. ALL PAVEMENT MARKINGS AND SIGNAGE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED ACCORDING TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
3. IN LOCATIONS WHERE A STOP SIGN EXISTS WITHOUT A STOP BAR, ADD A STOP BAR PER APPLICABLE STANDARD DETAILS.
4. ALL PROPOSED MARKINGS SHALL MATCH EXISTING MARKINGS, WHERE APPLICABLE.
5. EDGE LINE MARKINGS SHALL NOT BE INSTALLED IN CROSSWALK AREAS OR IN FRONT OF CURB RAMPS. EXISTING MARKINGS IN THESE AREAS SHALL BE COMPLETELY REMOVED.
6. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE MUTCD AND BCTED COMPLIANT.
7. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

PROJECT AREA WITHIN ROADWAY

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Certificate of Authorization 514

PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PAVEMENT MARKING AND SIGNAGE PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

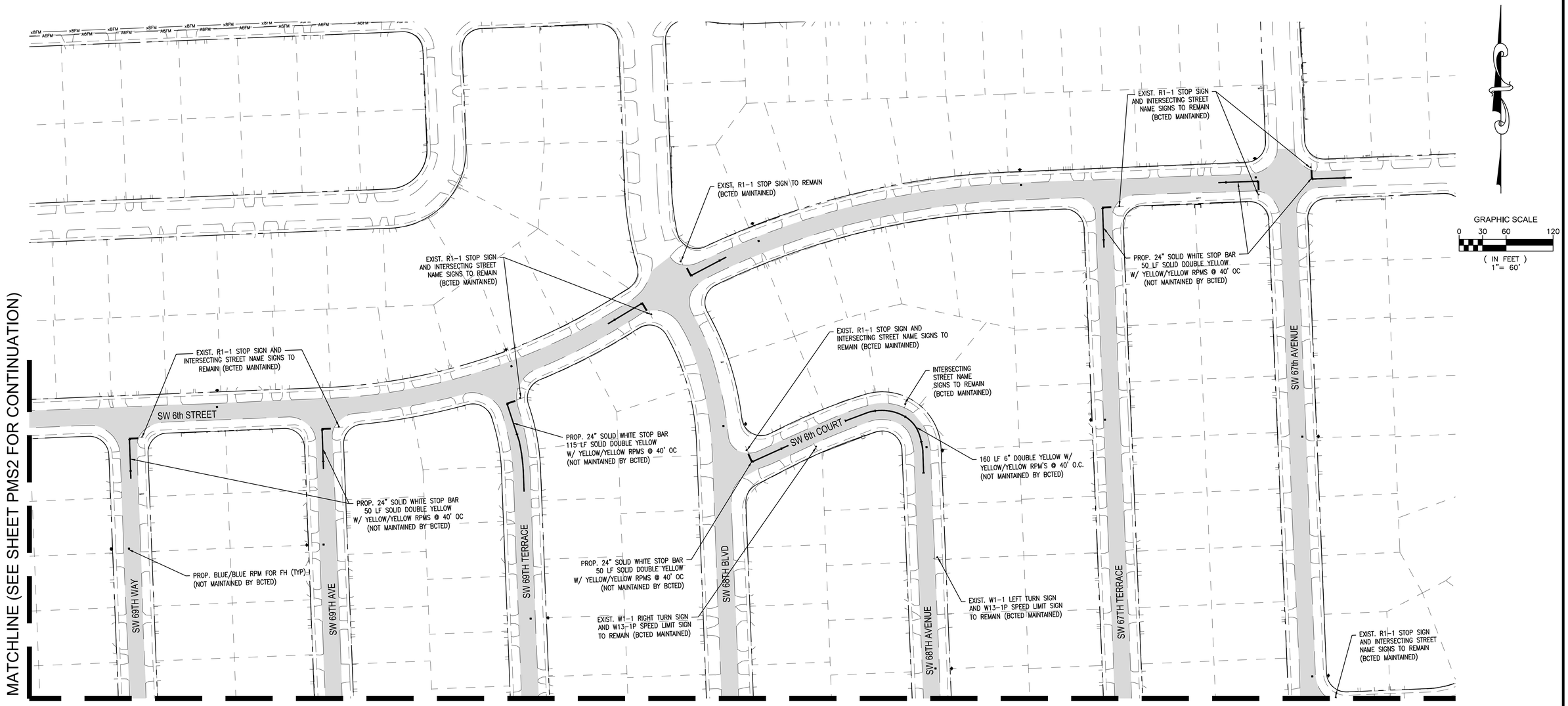
DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: PMS2

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-PMS_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:42:41 PM)



MATCHLINE (SEE SHEET PMS4 FOR CONTINUATION)

NOTES:

1. ALL EXISTING SIGNAGE TO REMAIN.
2. ALL PAVEMENT MARKINGS AND SIGNAGE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED ACCORDING TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
3. IN LOCATIONS WHERE A STOP SIGN EXISTS WITHOUT A STOP BAR, ADD A STOP BAR PER APPLICABLE STANDARD DETAILS.
4. ALL PROPOSED MARKINGS SHALL MATCH EXISTING MARKINGS, WHERE APPLICABLE.
5. EDGE LINE MARKINGS SHALL NOT BE INSTALLED IN CROSSWALK AREAS OR IN FRONT OF CURB RAMPS. EXISTING MARKINGS IN THESE AREAS SHALL BE COMPLETELY REMOVED.
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7. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

PROJECT AREA WITHIN ROADWAY

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PAVEMENT MARKING AND SIGNAGE PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

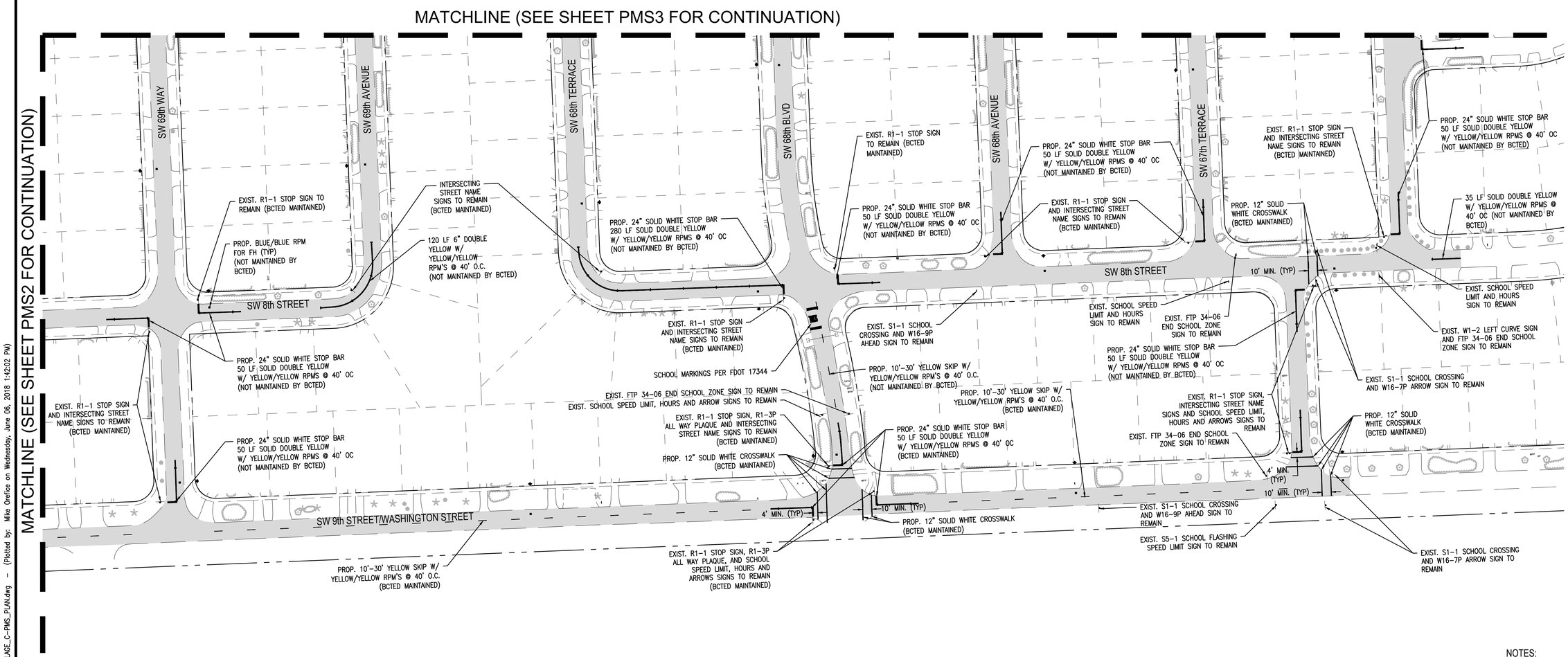
SCALE: AS SHOWN

PROJECT No: 91-0134.1

SHEET: PMS3

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-PMS_PLAN.dwg - (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:42:21 PM)

BCTED REF #180502060



NOTES:

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6. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE MUTCD AND BCTED COMPLIANT.
7. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

PROJECT AREA WITHIN ROADWAY

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PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1
PEMBROKE PINES, FLORIDA

PAVEMENT MARKING AND SIGNAGE PLAN

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No: 91-0134.1

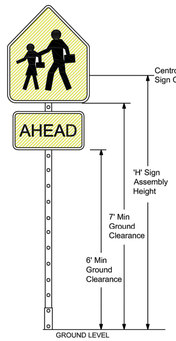
SHEET: PMS4

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-PMS_PLAN.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:42:02 PM)

BCTED REF #180502060

GUIDE TO USE THIS STANDARD:

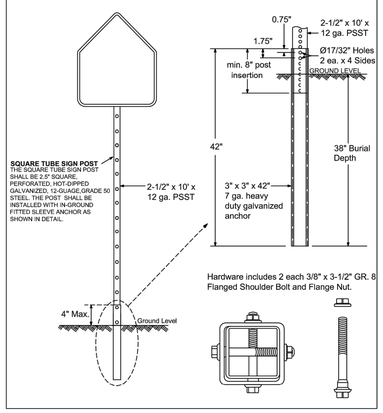
1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.



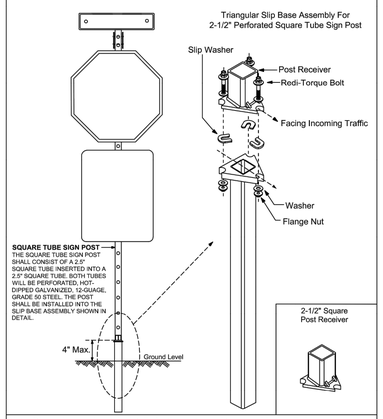
Post Size Table

Total Panel Area (sf)	'H' Sign Assembly Height (ft) (measure from ground) 8	8.5	9	9.5	10
3					
4					
5	Sign Post with 3" x 7 ga. Square Anchor				
6					
7					
8					
9					
10					
11					
12					
13	Sign Post with Triangular Slip Base Assembly				
14					
15					
16					
17					
18	Two Post Installation Required with Triangular Slip Base				
19					
20+					

Sign Post with 3" x 7 ga. Square Anchor



Sign Post with Triangular Slip Base



Note: Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

REVISIONS	
DATE	DESCRIPTION
01-05-2016	N/A
03-21-2017	UPDATED POST SIZE

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

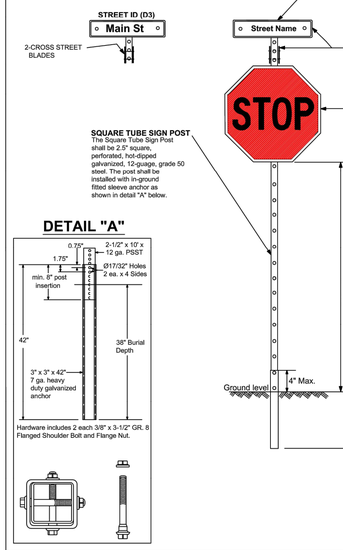
DESIGN BY: YVES D'ANJOU, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

GROUND SIGN ASSEMBLY DETAILS

SHEET NO. 1 OF 1

FOR SIGN ASSEMBLIES WITH MAXIMUM 8.75 SQUARE FOOT PANEL AREA

Typical Details



DETAIL "A"

STREET ID MATERIALS:

BORDER AND LETTERS
SILVER DIAMOND GRADE
TYPE XI SHEETING
LETTERING OF STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWERCASE LETTERS WITH INITIAL UPPERCASE LETTERS

GREEN BACKGROUND
GREEN TRANSLUSCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM 1177 GREEN OR EQUIVALENT

SIZE
SEE MUTCD TABLE 2D-2 (PG 163) FOR MINIMUM LETTER HEIGHTS
LENGTH VARIES BY STREET NAME

HARDWARE
#18 THREADED STEEL ZINC BOLTS, GRADE 5, 5/16" X 3/4", WINYLON WASHERS.

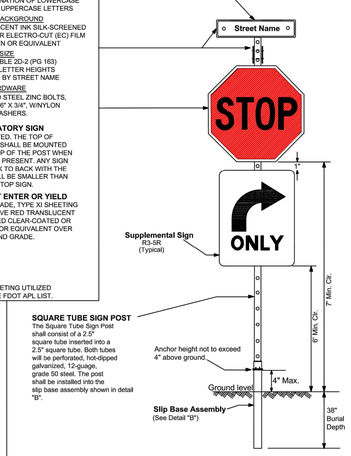
REGULATORY SIGN
R1-1 DEPICTED. THE TOP OF THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST WHEN NO STREET ID IS PRESENT. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN SHALL BE SMALLER THAN THE STOP SIGN.

STOP, DO NOT ENTER OR YIELD
WHITE DIAMOND-GRADE, TYPE XI SHEETING PRESSURE-SENSITIVE RED TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR EC FILM 1172 RED OR EQUIVALENT OVER DIAMOND GRADE.

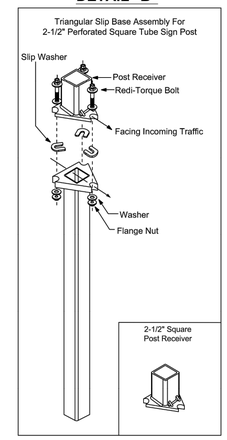
NOTE: ALL TYPE XI SHEETING UTILIZED MUST BE ON THE FDOT APL LIST.

FOR SIGN ASSEMBLIES WITH GREATER THAN 8.75 SQUARE FOOT PANEL AREA WITH SUPPLEMENTAL SIGN

Typical Details



DETAIL "B"



Notes:
1. Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

2. For standard ground sign installation, see detail entitled " Ground Sign Assembly Details".

REVISIONS	
DATE	DESCRIPTION
06-07-2016	N/A
03-21-2017	UPDATED POST SIZE

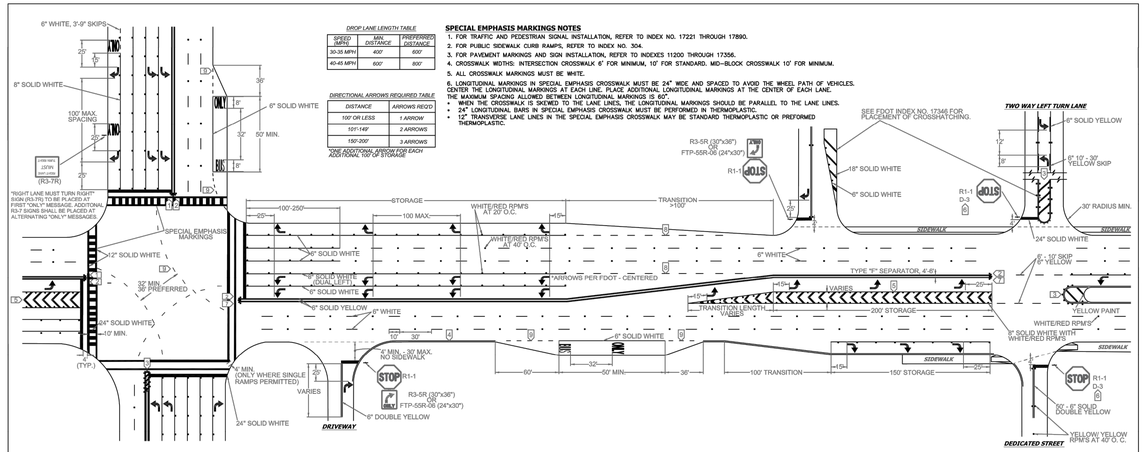
BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., PTOE

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

SHEET NO. 1 OF 1



DROP LANE LENGTH TABLE		
SPEED (MPH)	MIN. DISTANCE	PREFERRED DISTANCE
30-35 MPH	400'	600'
40-45 MPH	600'	800'

DIRECTIONAL ARROWS REQUIRED TABLE	
DISTANCE	ARROWS REQ'D
100' OR LESS	1 ARROW
101'-149'	2 ARROWS
150'-200'	3 ARROWS

*ONE ADDITIONAL ARROW FOR EACH ADDITIONAL 100' OF STORAGE

SPECIAL EMPHASIS MARKINGS NOTES

1. FOR TRAFFIC AND PEDESTRIAN SIGNAL INSTALLATION, REFER TO INDEX NO. 17221 THROUGH 17890.
2. FOR PUBLIC SIDEWALK CURB RAMPS, REFER TO INDEX NO. 304.
3. FOR PAVEMENT MARKINGS AND SIGN INSTALLATION, REFER TO INDEXES 11200 THROUGH 17356.
4. CROSSWALK WIDTHS: INTERSECTION CROSSWALK 6' FOR MINIMUM, 10' FOR STANDARD. MID-BLOCK CROSSWALK 10' FOR MINIMUM.
5. ALL CROSSWALK MARKINGS MUST BE WHITE.
6. LONGITUDINAL MARKINGS IN SPECIAL EMPHASIS CROSSWALK MUST BE 24" WIDE AND SPACED TO AVOID THE WHEEL PATH OF VEHICLES. CENTER THE LONGITUDINAL MARKINGS AT EACH LINE. PLACE ADDITONAL LONGITUDINAL MARKINGS AT THE CENTER OF EACH LANE. THE MAXIMUM SPACING ALLOWED BETWEEN LONGITUDINAL MARKINGS IS 60".
   - WHEN THE CROSSWALK IS SKEWED TO THE LANE LINES, THE LONGITUDINAL MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
   - 24" LONGITUDINAL BARS IN SPECIAL EMPHASIS CROSSWALK MUST BE PERFORMED IN THERMOPLASTIC.
   - 12" TRANSVERSE LANE LINES IN THE SPECIAL EMPHASIS CROSSWALK MAY BE STANDARD THERMOPLASTIC OR PREFORMED THERMOPLASTIC.

NOTES

1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND APPLIED WITH PRO ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.
4. SEE FDOT INDEX NO 17352 FOR PLACEMENT OF RPM's (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
5. RPM's SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 17347.
8. MARKINGS IN AND ADJACENT TO BIKE LANES SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50% GLASS SPHERES AND 50% SHARP SILICA SAND APPLIED AT A RATE DETERMINED BY THE MANUFACTURER'S SPECIFICATIONS.
9. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
10. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
11. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.
12. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).

LEGEND

1. **YELLOW/YELLOW RPM DETAILS** — DIRECTION OF TRAVEL; CENTERLINE; 4" - 6" OC, 1' MIN TO CROSSWALK; REFLECTIVE YELLOW; DIRECTION OF TRAVEL
2. **MEDIAN NOSE PAINT DETAILS** — RAISED SEPARATOR; GRASS MEDIAN; POINT OF CURB; REFLECTIVE YELLOW; RADIUS POINT
3. **PAINTED MEDIAN DETAILS** — DIRECTION OF TRAVEL; 1" OC; 6" SOLID DOUBLE YELLOW; YELLOW PAINT; 18" SOLID YELLOW; YELLOW/YELLOW RPM's; DIRECTION OF TRAVEL
4. **EDGE LINE DETAILS** — 6" SOLID WHITE OR YELLOW; EDGE OF PAVEMENT
5. **CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS** — DIRECTION OF TRAVEL; WHITE/RED RPM's; 18" SOLID WHITE; 6" SOLID WHITE; DIRECTION OF TRAVEL; (SEE FDOT INDEX NO. 17346 FOR SPACING OF CHEVRONS)
6. **STREET NAME BLADE DETAILS** — SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS.
7. **TYPE IV SEPARATOR DETAILS** — 2'-6"; 6" - 12'; REFLECTIVE YELLOW PAINT; YELLOW/YELLOW RPM's; 6" SOLID YELLOW; TYPE "E" CURB AND GUTTER
8. **6"-10' SKIP DETAILS** — 6" - 10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - HORIZONTAL CURVE SECTIONS
   - CHANGES IN HORIZONTAL ALIGNMENT
9. **2'-4' SKIP DETAILS** — 2' - 4' SKIPS 8" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - RADIUS GUIDE LINES BETWEEN DUAL LEFTS TURN MOVEMENT (90' RADIUS PREFERRED DA AS NOTED ON PLANS)
   - BUS BAY TRANSITIONS

STOP SIGN NOTE

WHERE SIDE ROADS INTERSECT A MULTI LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IS THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"X36".

REVISIONS	
DATE	DESCRIPTION
01-15-2016	N/A

BROWARD COUNTY FLORIDA

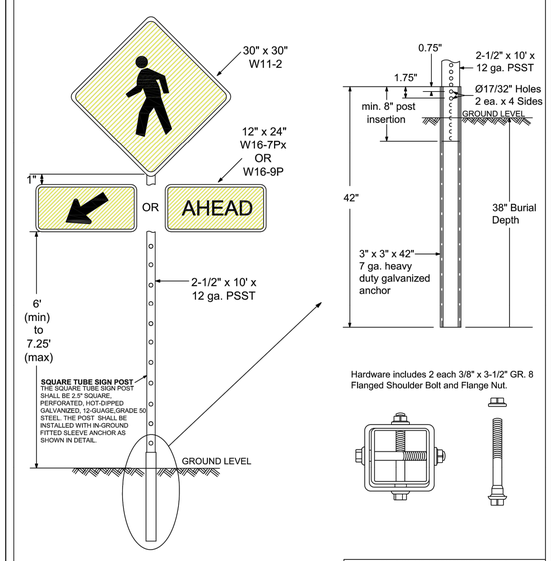
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E. | SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: ANDREW SEBO, P.E., P.T.O.E

PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET NO. 1 OF 1

W11-2 (30"x 30") & SUPPLEMENTAL (12"x24") SIGN ASSEMBLY



NOTE: NOT FOR USE WITH RECTANGULAR RAPID FLASHING BEACONS

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

W11-2(30"x 30") & SUPPLEMENTAL(12"x 24") SIGN ASSEMBLY	
REVISION: 03-17-15	SCALE: NTS
	DESIGN BY: Yves d'Anjou, P.E.
	DRAWN BY: Stephon Ramoutar
SHEET 1 OF 1	CHECKED BY: Andrew Sebo, P.E., PTOE

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Certificate of Authorization 514

PINES VILLAGE WATER MAIN REPLACEMENT
PHASE 1

PEMBROKE PINES, FLORIDA

PAVEMENT MARKING AND SIGNAGE DETAILS

NICHOLAS W. KANELIDIS, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE No. 78536

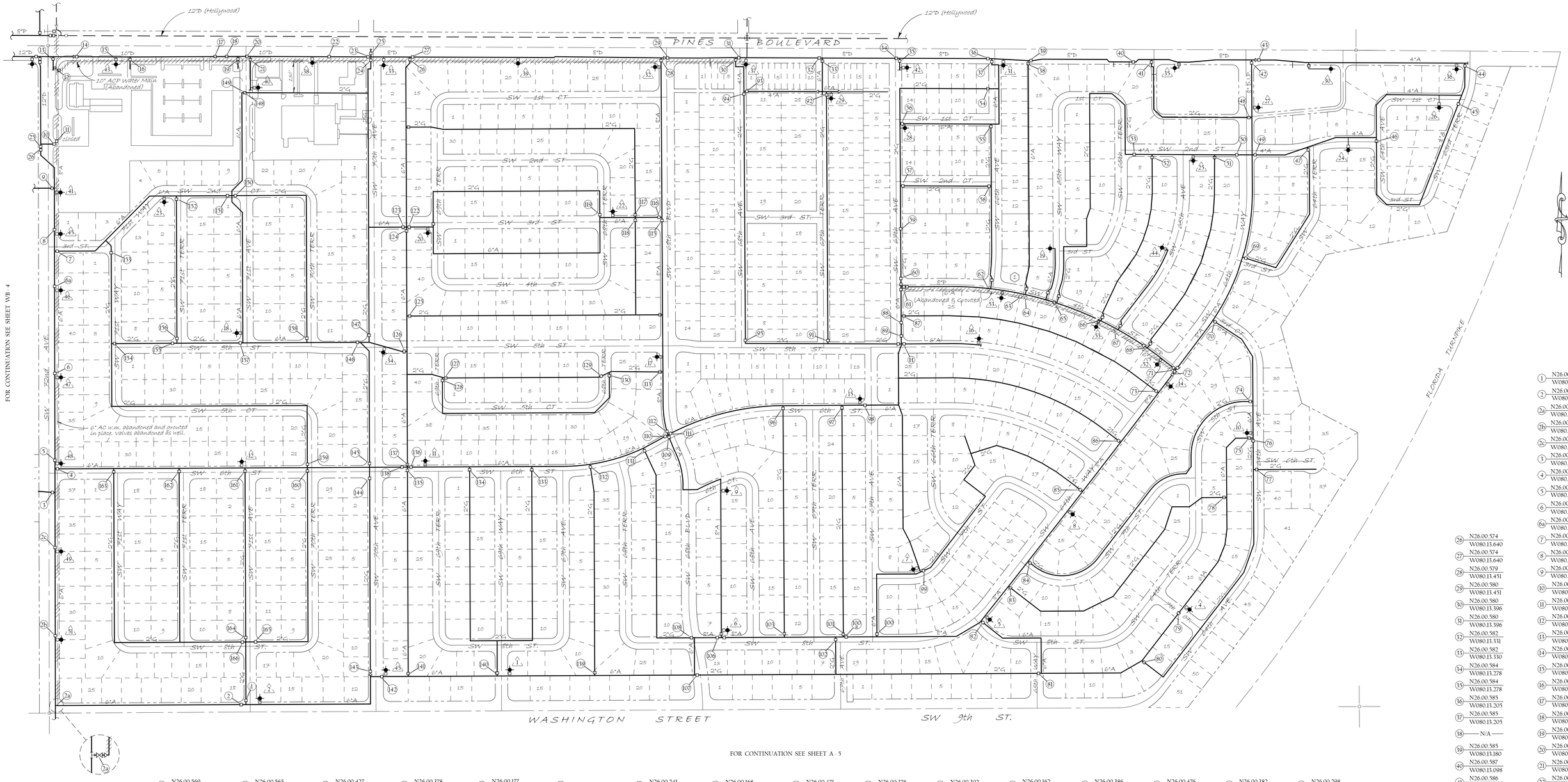
DATE: JUNE 6, 2018

SCALE: AS SHOWN

PROJECT No 91-0134.1

SHEET PMS5

File Name: P:\Projects\1991\910134 City Of PP General Engineering\CADD Files\Drawings\Pines Village WM\91-01341_PINES VILLAGE_C-PMS_DTL.dwg – (Plotted by: Mike Orefice on Wednesday, June 06, 2018 1:40:50 PM)



FOR CONTINUATION SEE SHEET WB-4

FOR CONTINUATION SEE SHEET A-5

(1) N26.00.141 W080.13.744
(2) N26.00.141 W080.13.743
(2a) N26.00.138 W080.13.884
(2b) N26.00.183 W080.13.888
(2c) N26.00.277 W080.13.892
(3) N26.00.277 W080.13.886
(4) N26.00.292 W080.13.891
(5) N26.00.300 W080.13.893
(6) N26.00.355 W080.13.895
(6a) N26.00.413 W080.13.896
(7) N26.00.439 W080.13.895
(8) N26.00.450 W080.13.896
(9) N26.00.485 W080.13.897
(10) N26.00.514 W080.13.896
(11) N26.00.515 W080.13.895
(12) N26.00.560 W080.13.896
(13) N26.00.568 W080.13.898
(14) N26.00.568 W080.13.885
(15) N26.00.568 W080.13.850
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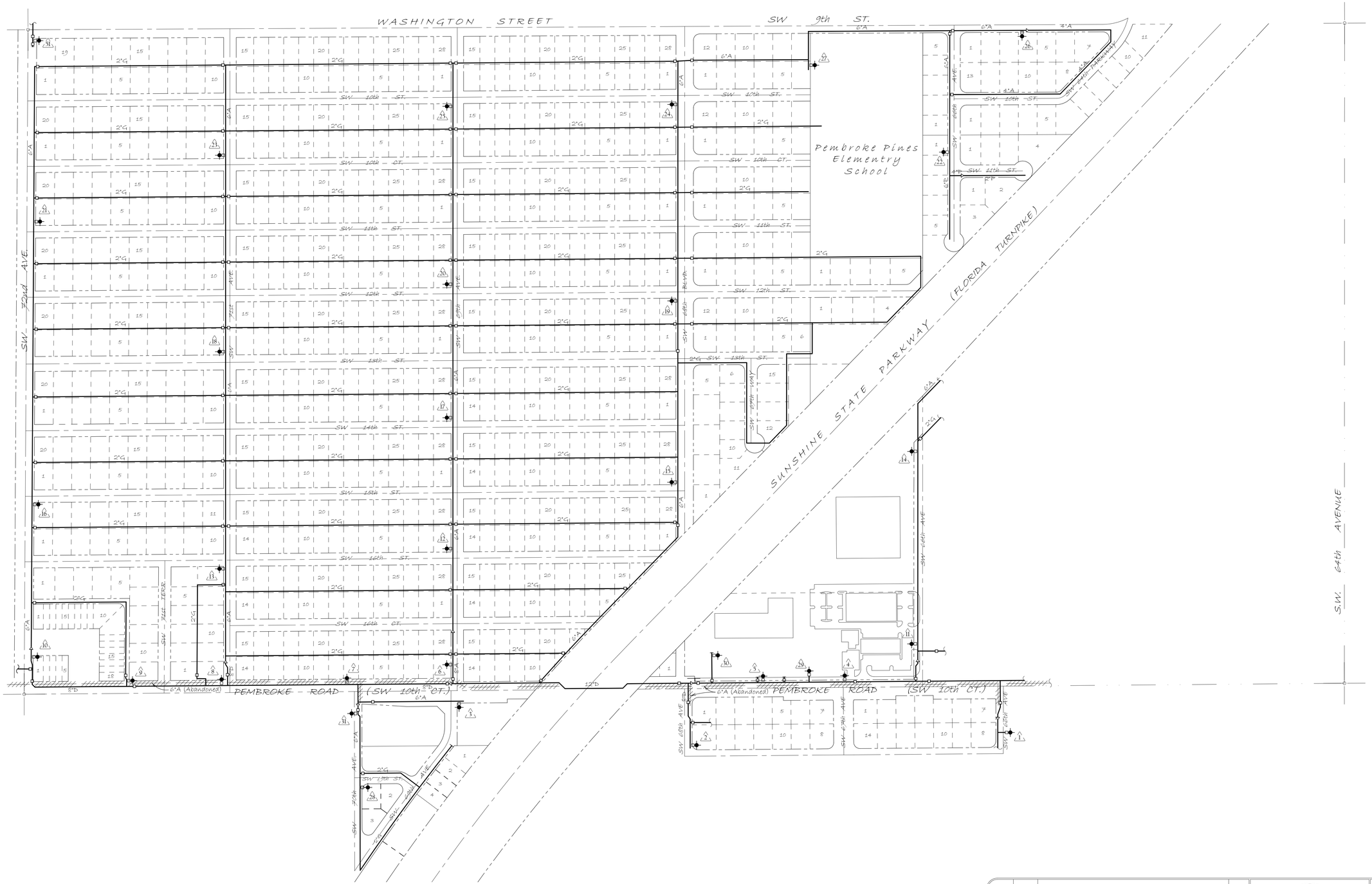
REV	DATE	DESCRIPTION	BY
1	10/30	SW 4th ST Watermain Relocation	WG

SOUTH 1/2 14-51-41
WATER SYSTEM

SCALE: 1"= 200'
PLOT DATE: 12/18

WA-4

FOR CONTINUATION SEE SHEET A - 4



REV	DATE	DESCRIPTION	BY

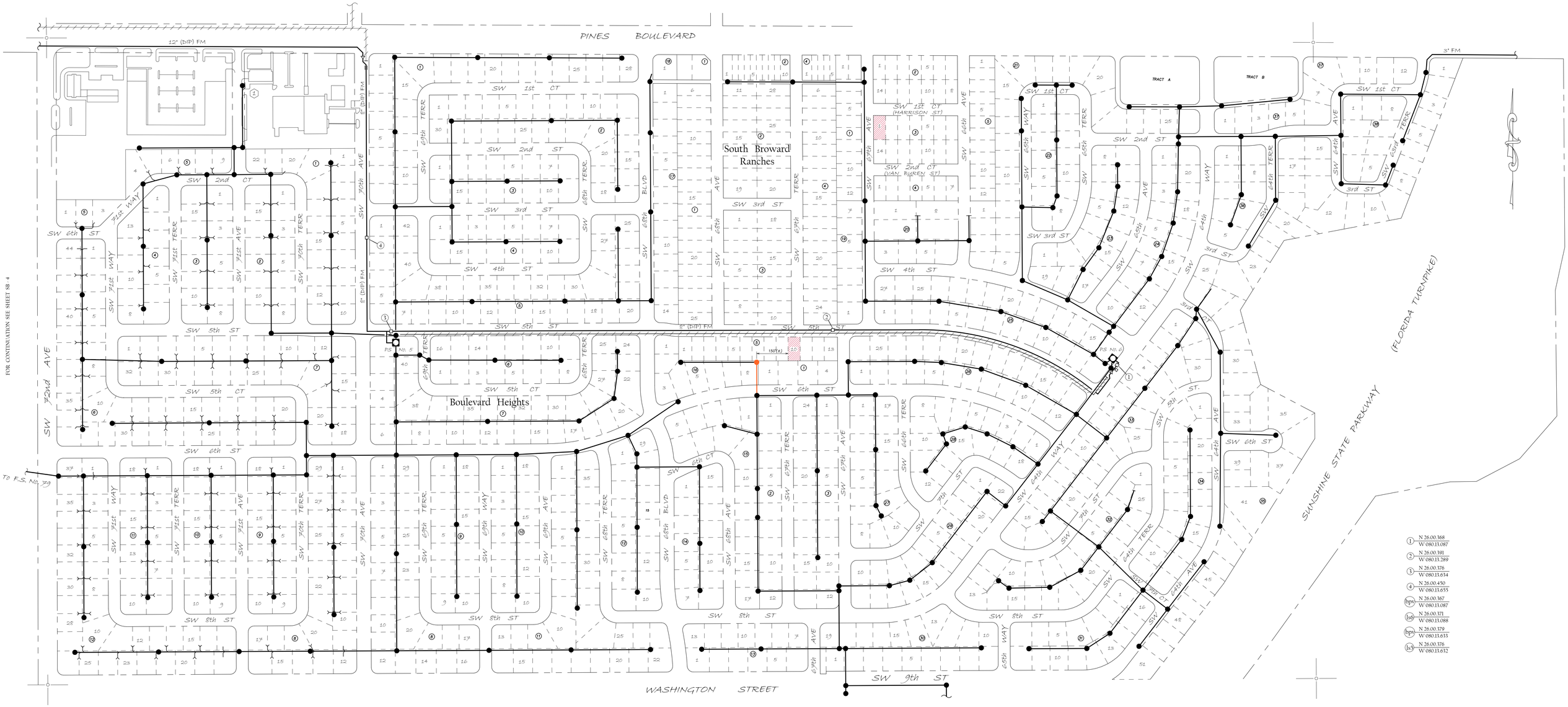
NORTH 1/2 23-51-41
WATER SYSTEM

SCALE: 1"= 200'
PLOT DATE: 12/18

WA-5

FOR CONTINUATION SEE SHEET B - 5

A-4 LIFT STATIONS
No. 5
No. 6



FOR CONTINUATION SEE SHEET SB - 4

FOR CONTINUATION SEE SHEET SA - 5

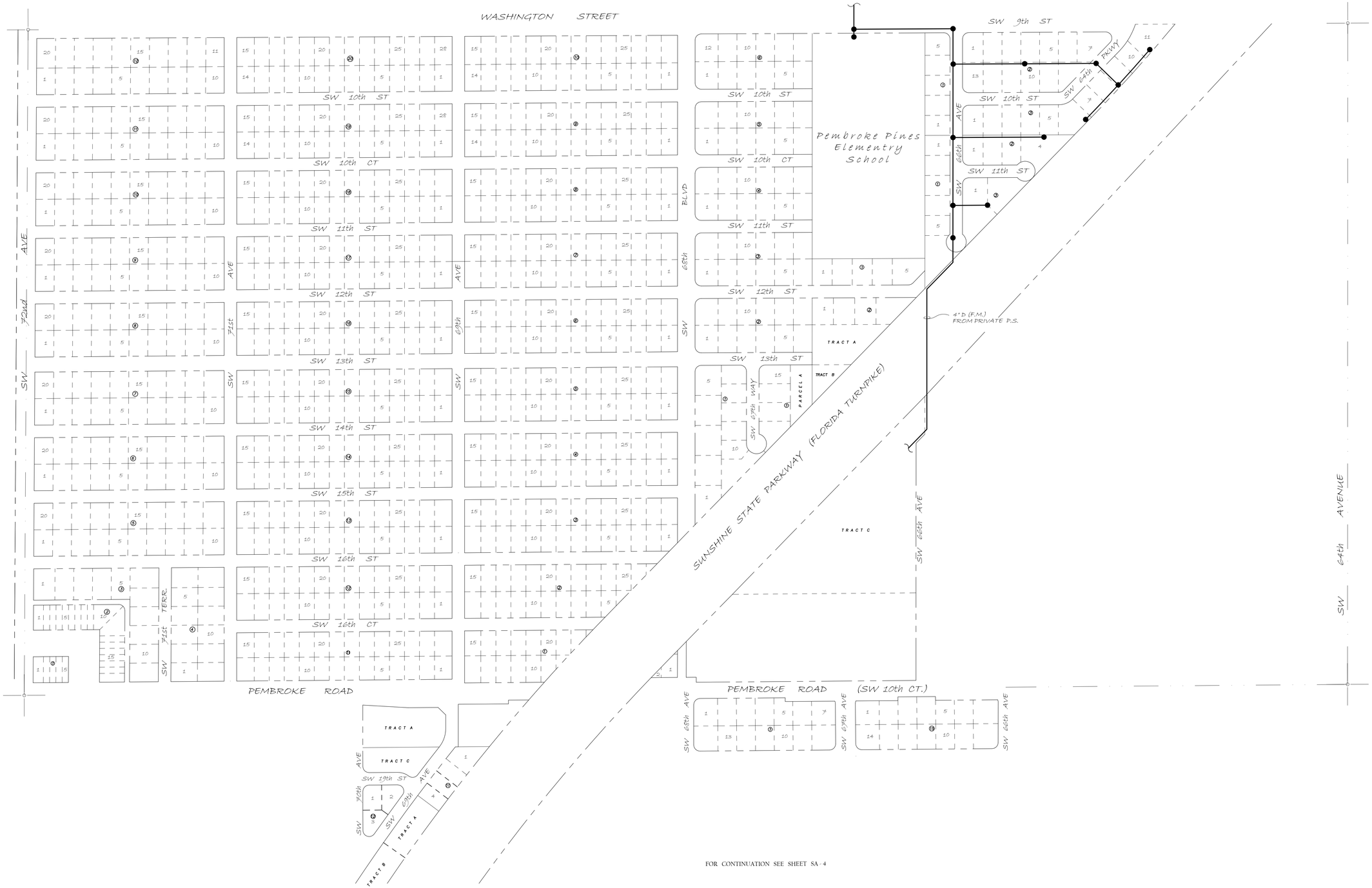
REV	DATE	DESCRIPTION	BY
1	1/16	ADDED SEWER CONNECTION TO 7-11	WG

SOUTH 1/2 14-51-41
SEWER SYSTEM

SCALE: 1"= 200'
PLOT DATE: 12/18

SA-4

FOR CONTINUATION SEE SHEET SA - 4



FOR CONTINUATION SEE SHEET SA - 4

FOR CONTINUATION SEE SHEET SB - 5

REV	DATE	DESCRIPTION	BY

NORTH 1/2 23-51-41
SEWER SYSTEM

SCALE: 1"= 200'

PLOT DATE: 12/18

SA-5

Bid #PSUT-20-02 - Design & Post Design Services:Pines Village Water Main Improvements Phase II & RFQ

Time Left	**closed**	**# of offers**	**7**
Bid Started	**Jan 21, 2020 6:21:40 PM EST**	**Notifications**	Report (Bidder Activity)
Bid Ended	This bid closed on Feb 25, 2020 2:00:00 PM EST	**# of suppliers viewed**	**98** (View)
Agency Information	**City of Pembroke Pines, FL** (view agency's bids)	**Q & A**	Questions & Answers Questions: 4
Bid Classifications	Classification Codes		
Required Vendor Qualifications	PP-SWORN, PP-LOCAL, PP-VOSB, PP-DRUGFREE, PP-SCRUTINIZED, PP-W9, PP-VENDORINFO, PP-EQUAL, PP-LBTR		
Bid Regions	Regions		
Bid Contact	see contact information		
Delivery Location	One or more of the following locations		

City of Pembroke Pines

No Location Specified

Qty 1

Expected Expenditure n/a

View Rules	Click here to change the rules for this bid.
Best and Final Offer:	Create

Approval

View Approval Flow	View Approval Flow
Approval Status	Approved

Description

Bid Number	PSUT-20-02
Title	Please upload & submit all required documents here.
Contract Duration	One Time Purchase
Prices Good for	90 days
Budgeted Amount	$0.00 (change)
Estimated Amount	$1,000,000.00
Estimated Amount	$1,000,000.00 (This price is estimated - not guaranteed)
Standard Disclaimer	Bids/proposals must be submitted electronically

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.
The vendor must provide the necessary information on the BidSync website and upload all of the requested documents listed in the PROPOSAL REQUIREMENTS section of this solicitation. Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked âœBID SECURITYâ (with the Solicitation Number and Title) and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, FL 33025.

Bid Comments

RFQ # PSUT-20-02
Design & Post Design Services:
Pines Village Water Main Improvements Phase II & Septic Tank Conversion

The City of Pembroke Pines is seeking qualification statements from qualified firms to provide design engineering, and permitting services encompassing the second phase of water main improvements, and sanitary service to a series of commercial and residential properties that are currently on septic tanks, located within the Pines Village community and in accordance with the Consultant Competitive Negotiation Act (C.C.N.A. – Florida Statute 287.055).

Description

Please upload & submit all required documents here.

Documents

Select All | Select None | Download Selected

1. PSUT-20-02 - Design-Post Design Svcs- P.Village Water Main Imprvmnts Ph.2 Septic Tank Conv.pdf [download]
2. Attachment A - Contact Information Form PSUT-20-02.docx [download]
3. Attachment B - Non-Collusive Affidavit [download]
4. Attachment C - Proposers Qualifications Statement [download]
5. Attachment D - Sample Insurance Certificate.pdf [download]
6. Attachment E - Professional Services Agreement w Solictation-CCNA PPBRev 2019-09-12.pdf [download]
7. Attachment F - References Form [download]
8. Attachment G - Standard Form 330.pdf [download]
9. Attachment H - Project General Map.pdf [download]
10. Attachment I - Phase I Drawings-Plans.pdf [download]
11. Pines Village Water Sewer Atlas.pdf [download]

= Included in Bid Packet = Excluded from Bid Packet

Change Made On Feb 4, 2020 4:12:15 PM EST

New Documents Pines Village Water Sewer Atlas.pdf

Contractor Advertisements

View All Ads

There are no advertisements on this solicitation.

Questions? Contact a BidSync representative: 800-990-9339 or email: support@bidsync.com

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Question and Answers for Bid #PSUT-20-02 - Design & Post Design Services:Pines Village Water Main Improvements Phase II &

Create New Question

Question Deadline: Feb 11, 2020 8:30:00 PM EST

Overall Bid Questions

Question 1

Can the City please make available the sewer atlas/as-builts and any preliminary designs and cost estimates? **(Submitted: Jan 23, 2020 12:07:04 PM EST)**

Answer

edit

- Attached is the Water & Sewer Atlas. Construction services cost estimate at $12.2 **(Answered: Feb 4, 2020 4:10:40 PM EST)**

Add to Answer:

Question 2

Will surveying services be a part of the scope of this RFQ or has the survey already been completed by a City consultant? **(Submitted: Jan 23, 2020 4:59:31 PM EST)**

Answer

edit

- Surveying services will be a part of the scope of the RFQ. **(Answered: Feb 4, 2020 4:10:40 PM EST)**

Add to Answer:

Question 3

Are sub-consultants also required to be pre-qualified by the City? **(Submitted: Feb 6, 2020 8:19:35 AM EST)**

Answer

edit

- No contractors, or sub-contractors, are required to be pre-qualified prior to a submittal for this solicitation. However, pursuant to Tab 11, "Please identify any sub-consultants that shall be used for this project and their involvement, if applicable." **(Answered: Feb 24, 2020 6:56:34 AM EST)**

Add to Answer:

Question 4

Are the existing septic tanks located in the front, back, or side of the properties? **(Submitted: Feb 6, 2020 3:18:51 PM EST)**

Answer

edit

- To be determined by consultant during their assessment. **(Answered: Feb 24, 2020 12:08:30 PM EST)**

Add to Answer:

Submit

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