Metal Overhang for Wastewater Treatment Plant BCR Building

Invitation for Bids # PSUT-19-04

General Information		
Project Cost Estimate	$110,000	See Section 1.4
Project Timeline	90 calendar days from NTP	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.7
Mandatory Pre-Bid Meeting	10:00 a.m. on July 9, 2019 at the Wastewater Treatment Plant, 13985 Pembroke Rd. Pembroke Pines FL 33027	See Section 1.8
Question Due Date	July 11, 2019	See Section 1.8
Proposals will be accepted until	2:00 p.m. on July 23, 2019	See Section 1.8
5% Proposal Security / Bid Bond	Required in the event that the proposal exceeds $200,000	See Section 4.1
100% Payment and Performance Bonds	Required in the event that the proposal exceeds $200,000	See Section 4.2

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

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ATTACHMENTS

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:

IFB # PSUT-19-04
Metal Overhang for Wastewater Treatment Plant BCR Building

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, July 23, 2019. 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 proposals from qualified firms, hereinafter referred to as the Contractor, to construct a metal overhang at the Wastewater Treatment Plant BCR Building in accordance with the terms, conditions, and specifications contained in this solicitation.

Such overhang is necessary for the proper handling of the solids discharge, protecting the material from the elements as they are loaded into the transportation vehicle for final destination.

1.3 SCOPE OF WORK

- Contractor shall provide all materials, labor, permits, and any other necessary items required to construct the steel overhang as shown in the engineered drawings.
- Contractor shall, as per the engineered drawings be responsible for, but not be limited to the following:
  - Take down the existing overhang structure and related systems in order to reuse the required parts as per the plan specifications.
  - Remove the existing footers.
  - Construct new footers.
  - Assemble new steel structure, painted with epoxy paint as per the attached specs.
  - Install Roof panels as per manufacturer's specifications.
  - Install lighting as applicable.
  - Re-surface asphalt area underneath the overhang as necessary.
- Contractor shall provide a minimal twenty (20) year manufacturer's warranty and five (5) year labor warranty.
- Contractor shall install new gutters and downspouts as applicable.
- Contractor shall be responsible for complete site restoration once the project is completed including but not limited to landscaping, asphalt work, and concrete work.
- Contractor shall provide all testing, manufacturer warranties, and certifications.
- The successful Bidder shall employ a competent superintendent who shall be in attendance at the project site during the progress of the work. The superintendent shall be the primary representative for the Bidder and all communications given to and all decisions made by the superintendent shall be binding to the Bidder.
- Contractor will be required to schedule all work with the city's Project Manager.
- Contractor shall be responsible for all debris removal and restoration to any existing areas. Site shall be broom swept, made safe, and clean of debris at the end of each work day.
- All precautions need to be taken for life safety and protection of people, vehicles, and all other structures on the site.
- The work must be performed Monday through Friday or as approved by the Project Manager.
- Any use of existing parking areas shall be requested in advance.
- All contractor personnel shall sign in and adhere to the rules and regulations set forth by the waste water plant operator.

Please carefully review Attachments I through S for detailed specifications, plans and drawings.

1.4 PROJECT COST ESTIMATE & TIMELINE

Staff estimates this project to cost approximately $110,000.00, which does not include permit costs.

Please note the City will include a Permit Allowance for this project, **therefore proposers should not include permit costs in their total proposal price.**

The work shall be completed within 90 days from issuance of CITY's Notice to Proceed.

1.4.1 PERMITS

The City anticipates this project to require the following permits:

Permit	Agency	Cost (or related method of calculation)
Building	City of Pembroke Pines Building Department (Calvin, Giordano & Associates, Inc.)	1. Construction costs up to $2,500 (Per structure per trade) = $97.17 2. Construction costs greater than $2,500 up to $1,000,000 = 2.96%

1.4.2 PERMIT ALLOWANCE

The City shall include a "Permit Allowance" for this project. The Contractor shall obtain all required permits to complete the work, however the City shall utilize the Permit Allowance to reimburse the contractor for the related permit, license, impact or inspection fees. Payments will be made to the contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The City shall determine the amount of the allowance at time of award. The allowance may be based on a specified percent of the proposed project amount and shall be established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. Any Permit Allowance funds that have not been utilized at the end of the project will remain with the City, if the City Permit fees exceed the allowance indicated, the City will reimburse the contractor the actual amount of City Permit Fees required for project completion.

1.5 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.

1.5.1 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. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

c. 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.

d. 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.

e. 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.

f. 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.

1.5.2 Attachment B: Non-Collusive Affidavit

1.5.3 Attachment C: Proposer's Qualifications Statement

1.5.4 Attachment F: References Form

a. Complete **Attachment F: References Form**, preferably where the team was the same. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

1.5.5 Attachment G: Mandatory Pre-Bid Meeting Form

1.5.6 Proposal Security (Bid Bond Form or Cashier's Check)

a. Each Proposal must be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.

b. Contingency is not to be counted in the total amount the proposal security is based on.

c. Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync.

d. Proposers must also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive.

e. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSUT-19-04 Metal Overhang for Wastewater Treatment Plant BCR Building**" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

f. Please see SECTION 4 - SPECIAL TERMS & CONDITIONS of this RFP for additional information.

1.6 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.

1.6.1 Vendor Information Form

1.6.2 Form W-9 (Rev. October 2018)

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

1.6.3 Sworn Statement on Public Entity Crimes Form

1.6.4 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.

1.6.5 Local Business Tax Receipts

1.6.6 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.

1.6.7 Equal Benefits Certification Form

1.6.8 Vendor Drug-Free Workplace Certification Form

1.6.9 Scrutinized Company Certification

1.7 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 solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.

B. Staff will make a recommendation to the City Commission for award of contract.

1.8 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	**June 25, 2019**
Mandatory Pre-Bid Meeting	**10:00 a.m. on July 9, 2019**
Question Due Date	**July 11, 2019**
Anticipated Date of Issuance for the Addenda with Questions and Answers	**July 15, 2019**
Proposals will be accepted until	**2:00 p.m. on July 23, 2019**
Proposals will be opened at	**2:30 p.m. on July 23, 2019**
Evaluation of Proposals by Staff	**TBD**
Recommendation of Contractor to City Commission award	**TBD**
Issuance of Notice to Proceed	**TBD**
Project Commencement	**Not later than 10 days after NTP**
Project Completion	**90 days after NTP**

1.8.1 MANDATORY PRE-BID MEETING / SITE VISIT

There will be a mandatory scheduled pre-bid meeting on **July 9, 2019 at 10:00 a.m.** Meeting location will be at the City's Wastewater Treatment Plant, 13985 Pembroke Road, Pembroke Pines FL 33027.

All vendors will be required to complete **Attachment G "Mandatory Pre-Bid Meeting Form"** at the meeting and submit it as part of their proposal to show proof of attendance to the mandatory meeting.

1.9 SUBMISSION REQUIREMENTS

Bids/proposals **must be submitted electronically** at www.bidsync.com **on or before 2:00 p.m. on July 23, 2019.**

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 pricing 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.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "**BID SECURITY - IFB # PSUT-19-04 Metal Overhang for Wastewater Treatment Plant BCR Building**" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

SECTION 2 - INSURANCE REQUIREMENTS

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 attorney's 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.

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.

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.

Policies shall be endorsed to provide the CITY thirty (30) days' notice of cancellation, material change or non-renewal of policies required under the contract. If the carrier will not agree to this notification, the CONTRACTOR or its insurance broker shall notify the CITY of any cancellation or reduction in coverage within seven days of receipt of insurer's notification of cancellation or reduction in coverage.

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, then in that event, the CONTRACTOR shall furnish, at least fifteen (15) 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 not 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.

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.

2.1 REQUIRED INSURANCE

A. **COMMERCIAL GENERAL LIABILITY INSURANCE** including, but not limited to: coverage for premises & operations, personal & advertising injury, products & completed operations, Liability assumed under an Insured Contract (including tort liability of another assumed in a business contract), and independent contractors. 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 **(mostly for construction or equipment sold to the CITY)**

Products & Completed Operations Coverage shall be maintained for two (2) years after the final payment under this contract. (Increase to 10 years for construction projects) (For construction projects also include: Designated Construction Project(s) General Aggregate Limit)

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

B. **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 his 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.

Coverage shall be included for injuries or claims under the USL&H or Jones Act, when applicable.

C. **AUTO LIABILITY INSURANCE** covering all owned, leased, hired, non-owned and employee non-owned 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 ISO pollution liability-broadened coverage for auto endorsement CA9948 and the Motor Carrier Act endorsement MCS90.

D. **PROFESSIONAL LIABILITY/ERRORS & OMISSIONS INSURANCE,** when applicable, with a limit of liability no less than $1,000,000 per wrongful act. This coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. (Increase to 10 years for construction projects)

E. **ENVIRONMENTAL/POLLUTION LIABILITY** shall be required with a limit of no less than $1,000,000 per wrongful act whenever work under this Agreement involves potential losses caused by pollution conditions. Coverage shall include: Contractor's completed operations as well as sudden and gradual pollution conditions. If coverage is written on a claims-made basis, coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage.** Furthermore, the CITY'S Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.

F. **CYBER LIABILITY including Network Security and Privacy Liability** when applicable, 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. This coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. **The City of Pembroke Pines must be shown as an additional insured with respect to this coverage.** Furthermore, the CITY'S Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.

G. **CRIME COVERAGE** when applicable, 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 the City's premises, a third-party fidelity coverage extension shall apply.

H. **BUILDER'S RISK INSURANCE** shall be "All Risk" for one hundred percent (100%) of the completed value of the project 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.

I. **SEXUAL ABUSE** may not be excluded from any policy for Agreements involving any interaction with minors or seniors.

2.2 REQUIRED ENDORSEMENTS

1. The City of Pembroke Pines shall be named as an Additional Insured on each of the General Liability polices required herein
2. Waiver of all Rights of Subrogation against the CITY
3. 30 Day Notice of Cancellation or Non-Renewal to the CITY
4. CONTRACTOR's policies shall be Primary & Non-Contributory
5. All policies shall contain a "severability of interest" or "cross liability" liability clause without obligation for premium payment of the CITY
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.

CONTRACTOR shall name the CITY, as an additional insured on each of the General Liability policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder. Any 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 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.

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 Contract.

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, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

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.

SECTION 4 - SPECIAL TERMS & CONDITIONS

4.1 PROPOSAL SECURITY

Proposal Security Requirements: Each Proposal must be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.

Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync. Proposers must also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked **"BID SECURITY - IFB # PSUT-19-04 Metal Overhang for Wastewater Treatment Plant BCR Building** and sent to the:

City of Pembroke Pines,
City Clerk's Office, 4th Floor,
601 City Center Way,
Pembroke Pines, Florida, 33025.

Successful Proposer: The Proposal Security of the Successful Proposer will be retained until such Proposer has executed the Contract and furnished the required insurance, payment and performance bonds, whereupon the Proposal Security will be returned. If the Successful Proposer fails to execute and deliver the Contract and furnish the required insurance and bonds within fifteen (15) calendar days of the Notice of Award, CITY may annul the Notice of Award and the entire sum of the Proposal Security shall be forfeited.

Three Lowest Proposers: The Proposal Security of the three (3) lowest Proposers will be returned within seven (7) calendar days after CITY and the Successful Proposer have executed the written Contract or if no such written Contract is executed within ninety (90) calendar days after the date of the Proposal opening, upon the demand of any Proposer at any time thereafter, provided that he has not been notified of the acceptance of his Proposal.

All Other Proposers: Proposal Security of all other Proposer will be returned within seven (7) calendar days after the proposal opening. The agent or attorney in fact or other officer who signs a Bid Bond for a surety company must file with such bond a certified copy of his power of attorney authorizing him to do so.

4.2 PAYMENT AND PERFORMANCE BONDS

Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the Contractor shall execute and furnish to City a performance bond and a payment 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+

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 price.** The performance bond shall be conditioned that the Contractor performs the contract in the time and manner prescribed in the contract. The payment bond shall be conditioned that the Contractor promptly make payments to all persons who supply the Contractor with labor, materials and supplies used directly or indirectly by the Contractor in the prosecution of the work provided for in the Contract 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 Contract 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 Contractor to record the aforesaid payment and performance bonds in the public records of Broward County, with the Contractor to pay all recording costs.

4.3 OWNER'S CONTINGENCY

While the specifications contained in this solicitation and any ensuing Purchase Orders or contracts have incorporated all anticipated work to be accomplished, there may be unanticipated work required of the vendor in conjunction with a specific project. For this reason, the City Commission may award a project with an "Owner's Contingency". This contingency or allowance authorizes the City execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. The Owner's Contingency is usually based on a specified percent of the proposed project amount and is established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency without the expressed prior approval of the City's authorized representative. Any Owner's Contingency funds that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City Commission along with any Owner Contingency expenses that were approved by the City's authorized representative.

4.4 TAX SAVER PROGRAM

The Contractor shall cooperate on certain projects to allow the City to avail itself of a sales tax savings program.

4.5 RELEASE OF LIEN

Contractor must provide an executed Partial/Final Release of Lien utilizing the City's standard Release of Lien Form in order for the City to release any payments to the Contractor.

4.6 SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLECTION AND DISPOSAL REQUIREMENTS

The City of Pembroke Pines has an exclusive solid waste franchise agreement with Waste Pro of Florida, Inc. for the collection and disposal of all solid waste including construction and demolition (C & D) debris. All applicants for bids to perform construction work for the City of Pembroke Pines shall be subject to the requirements found in the City's exclusive sold waste franchise agreement and must contract Waste Pro of Florida, Inc. for the collection and disposal of all construction and demolition debris generated at such construction job sites.

For the current applicable rates and fees for Waste Pro of Florida, Inc. dumpsters, roll-off containers, and other related solid waste service equipment needs, please contact David Perez, Waste Pro's Pembroke Pines Sales Representative at (954) 967-4200 or dperez@wasteprousa.com.

For further information related to the solid waste franchise requirements, please contact Rose Colombo, Solid Waste Franchise Agreement Contract Manager, at (954) 518-9011 or rcolombo@ppines.com.

For solid waste franchise enforcement questions, please contact the City of Pembroke Pines Code Compliance Unit at (954) 431-4466.

CONTACT INFORMATION FORM

IN ACCORDANCE WITH **"PSUT-19-04"** titled **"Metal Overhang for Wastewater Treatment Plant BCR Building"** 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

Are all materials, freight, labor and warranties included?	Yes ☐

Did you make sure to submit the following items, as stated in section 1.5 "Proposal Requirements" of the bid package?

Attachment A - Contact Information Form	Yes ☐
Attachment B - Non-Collusive Affidavit	Yes ☐
Attachment C - Proposer's Completed Qualification Statement	Yes ☐
Attachment F - References Form	Yes ☐
Attachment G - Mandatory Pre-Bid Meeting Form	Yes ☐
Does your proposal exceed $200,000 for this construction project?	Yes ☐

If so, please include a Proposal Security (Bid Bond or Cashier's Check) along with a separate line item to provide a Payment and Performance Bond. (See Bid Package for details)	

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 ☐

C) Sample Proposal Form

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Item #	Item Description	Total Cost
1)	Project Cost	**Price to be Submitted Via BidSync**
2)	Additional Cost to provide a Payment & Performance Bond in the form of a Percent of the total contract amount	**To be Submitted Via BidSync**

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 _____

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				EACH OCCURRENCE	$
	CLAIMS MADE OCCUR				FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
					PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	$
	policy project loc				PRODUCTS - COMP/OP AGG	$
	AUTOMOBILE LIABILITY					
	ANY AUTO					
	ALL OWNED AUTOS					
	SCHEDULED AUTOS					
	HIRED AUTOS					
	NON-OWNED AUTOS					
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
					AGG	$
	EXCESS LIABILITY				EACH OCCURRENCE	$
	OCCUR CLAIMS MADE				AGGREGATE	$
						$
	DEDUCTIBLE					$
	RETENTION $					$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATU-TORY LIMITS / OTH-ER	
					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

CONSTRUCTION AGREEMENT

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

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 "CITY",

and

«Vendor_Name_Upper_Case», a **«Vendor_Business_Type»**, authorized to do business in the State of Florida, with a business address of **«Vendor_Address_Line_1», «Vendor_Address_Line_2»** (hereinafter referred to as the "CONTRACTOR"). CITY and CONTRACTOR 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 CONTRACTOR 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 **«Solicitation_Advertisement_Date»,** the CITY advertised its notice to bidders of the CITY's desire to hire a firm to **«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»"

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

1.3 On **«Commission_Award_Date»,** the CITY awarded the bid to CONTRACTOR and authorized the proper CITY officials to negotiate and enter into an agreement with CONTRACTOR to render the services more particularly described herein below.

1.4 Negotiations pertaining to the services to be performed by the CONTRACTOR were undertaken and this Agreement incorporates the results of such negotiation.

ARTICLE 2
SERVICES AND RESPONSIBILITIES

2.1 CONTRACTOR 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, ("Property") in accordance with the Scope of Services outlined in the specifications, **"«Solicitation_Type_Abbreviation» # «Solicitation_Number»",** attached hereto and made a part hereof as **Exhibit "A"** and CONTRACTOR's response thereto, attached hereto and made a part hereof as **Composite Exhibit "B"**. CONTRACTOR agrees to do everything required by this Agreement, the Sealed Bid Package, Addenda to this Agreement, and Commission award complete with proposal form.

2.2 CONTRACTOR 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 CONTRACTOR shall supervise the work force to ensure that all workers conduct themselves and perform their work in a safe and professional manner. CONTRACTOR shall comply with all OSHA safety rules and regulations in the operation of equipment and in the performance of the work. CONTRACTOR shall at all times have a competent field supervisor on the job site to enforce these policies and procedures at the CONTRACTOR’s expense.

2.4 CONTRACTOR shall provide CITY with seventy-two (72) hours written notice prior to the beginning of work under this Agreement and prior to any schedule change with the exception of changes caused by inclement weather.

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

2.6 CONTRACTOR hereby represents to CITY that CONTRACTOR is properly licensed by the applicable federal, state, and local agencies to provide the services under this Agreement. Furthermore, CONTRACTOR agrees to maintain such licenses during the term of this Agreement. If CONTRACTOR's license is revoked, suspended, or terminated for any reason by any governmental agency, CONTRACTOR shall notify the CITY immediately.

2.7 CONTRACTOR shall comply with any and all Federal, State, and local laws and regulations now in effect, or hereinafter enacted during the term of this Agreement, which are applicable to CONTRACTOR, its employees, agents or subcontractors, if any, with respect to the work and services described herein. A violation of any federal, state, or local law or regulation may be cause for breach, allowing the CITY to terminate this Agreement.

ARTICLE 3
TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

3.1 The work to be performed under this Agreement shall be commenced after CITY execution of the Agreement and not later than ten (10) days after the date that CONTRACTOR receives CITY's Notice to Proceed. The work shall be completed within **«Number_of_Calendar_Days_from_NTP_to_Comm»** from issuance of CITY's Notice to Proceed, subject to any permitted extensions of time under the Contract Documents. For the purposes of this Agreement, completion shall mean the issuance of final permit.

3.2 During the pre-construction portion of the work hereunder, the parties agree to work diligently and in good faith in performing their obligations hereunder, so that all required permits for the construction portion of the work may be obtained. In the event that any delays in the pre-construction or construction portion of the work occur, despite the diligent efforts of the parties hereto, and such delays are the result of force majeure or are otherwise outside of the control of either party hereto, then the parties shall agree on an equitable extension of the time for substantial completion hereunder and any resulting increase in general condition costs.

3.3 In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, he shall indemnify 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, surveys, and reports prepared by CONTRACTOR shall become the property of CITY and shall be delivered by CONTRACTOR to CITY.

ARTICLE 4
COMPENSATION AND METHOD OF PAYMENT

4.1 CITY agrees to compensate CONTRACTOR for all services performed by CONTRACTOR upon issuance of final inspection approval / monthly for work that has been completed, inspected and properly invoiced **«Compensation_Type» «Compensation_Amount_Written» («Compensation_Amount_Numerical»),** which includes a **«Contingency_Fee_Percent»** owner's contingency fee of **«Contingency_Fee_Written» («Contingency_Fee_Numerical»)** and a **«Permit_Fee_Percent»** permit allowance of **«Permit_Fee_Written» («Permit_Fee_Numerical»).**

4.1.1 This contingency or allowance authorizes the City to execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. **It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency or Allowance without the expressed prior approval of the City's authorized representative.** Any Owner's Contingency funds or allowance that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City Commission along with any Owner Contingency expenses or allowances that were approved by the City's authorized representative.

4.1.2 The total compensation amount may not be exceeded without a written amendment to this Agreement. A retainage of ten percent (10%) will be deducted from monthly payments until fifty percent (50%) of the project is complete. Retainage will be reduced to five percent (5%) thereafter. Retainage monies will be released upon satisfactory completion and final inspection of the work. Invoices must bear the project name, project number, bid number and purchase order number. CITY has up to thirty (30) days to review, approve and pay all invoices after receipt. CONTRACTOR shall invoice CITY and provide a written request to CITY to commence the one (1) year warranty period. All necessary Releases and Affidavits and approval of Final Payments shall be processed before the warranty period begins. All payments shall be governed by the Florida Prompt Payment Act, as set forth in Part VII, Chapter 218, Florida Statutes.

4.2 **Method of Billing and Payment.**

4.2.1 The CITY shall within thirty (30) days, from the date the City's Public Service Director approves the Application for Payment, pay the CONTRACTOR the amount approved by the City Public Services Director or his or her assignees.

4.2.2 Payment will be made to CONTRACTOR at:

«Vendor_Name»
«Vendor_Address_Line_1»
«Vendor_Address_Line_2»

ARTICLE 5
WAIVER OF LIENS

5.1 Prior to final payment of the Contract Sum, a final waiver of lien shall be submitted by all suppliers, subcontractors, and/or contractors who worked on the project that is the subject of this Agreement. Payment of the invoice and acceptance of such payment by CONTRACTOR shall release CITY from all claims of liability by CONTRACTOR in connection with this Agreement.

ARTICLE 6
WARRANTY

6.1 CONTRACTOR warrants the work against defect for a period of one (1) year from the date of completion of work. In the event that defect occurs during this time, CONTRACTOR shall perform such steps as required to remedy the defects. CONTRACTOR shall be responsible for any damages caused by defect to affected area or to interior structure. The one (1) year warranty period does not begin until substantial completion of the entire project, and the subsequent release of any Performance or Payment Bonds, which may be required by the original bid document.

ARTICLE 7
CHANGES IN SCOPE OF WORK

7.1 CITY or CONTRACTOR 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 will 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 CONTRACTOR be compensated for any work which has not been described in a separate written agreement executed by the parties hereto.

ARTICLE 8
INDEMNIFICATION

8.1 Pursuant to 725.06, Florida Statutes, the parties agree that one hundred percent (100%) of the total compensation paid to CONTRACTOR for the Work under this Agreement shall constitute specific consideration to CONTRACTOR for the indemnification to be provided under this Agreement. CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns, employees, consultants, separate contractors, any of their subcontractors, sub-subcontractors, agents and employees from and against claims, demands, or causes of action whatsoever, and the resulting losses, damages, costs and expenses, including but not limited to attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY arising out of or resulting from performance of the Work or the failure of the CONTRACTOR to take out and maintain insurance as required under this Agreement.

8.2 Upon completion of all Services, obligations and duties provided for in this Agreement, or in the event of termination of this Agreement for any reason, the terms and conditions of this Article shall survive indefinitely.

8.3 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 CONTRACTOR.

8.4 Nothing contained herein is intended nor shall be construed to waive City’s rights and immunities under the common law or §768.28, Florida Statutes, as may be amended from time to time.

ARTICLE 9
INSURANCE

9.1 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 attorney's 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.

9.2 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.

9.3 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.

9.4 Policies shall be endorsed to provide the CITY thirty (30) days notice of cancellation or the CONTRACTOR shall obtain written agreement from its Agent to provide the CITY thirty (30) days notice of cancellation.

9.5 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, then in that event, 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 not 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.

9.6 REQUIRED INSURANCE

9.6.1 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 two (2) years after the final payment under this contract.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage.

9.6.2 Worker's 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 his 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.

9.6.3 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

9.6.4 Professional Liability/Errors & Omissions Insurance, when applicable, with a limit of liability no less than $1,000,000 per wrongful act. This coverage shall be maintained for a period of no less than two (2) years after final payment of the contract.

9.6.5 Sexual Abuse may not be excluded from any policy.

9.7 REQUIRED ENDORSEMENTS

9.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the General Liability policies required herein
9.7.2 Waiver of all Rights of Subrogation against the CITY
9.7.3 30 Day Notice of Cancellation or Non-Renewal to the CITY
9.7.4 CONTRACTORs' policies shall be Primary & Non-Contributory
9.7.5 All policies shall contain a "severability of interest" or "cross liability" liability clause without obligation for premium payment of the CITY
9.7.6 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.

9.8 CONTRACTOR shall name the CITY, as an additional insured on each of the General Liability policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder.

9.9 Any 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.

9.10 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 Contract.

ARTICLE 10
NON-DISCRIMINATION & EQUAL OPPORTUNITY EMPLOYMENT

10.1 During the performance of the Agreement, neither CONTRACTOR nor its 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. CONTRACTOR 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. CONTRACTOR 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. CONTRACTOR 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 11

INDEPENDENT CONTRACTOR

11.1 This Agreement does not create an employee/employer relationship between the parties. It is the intent of the parties that the CONTRACTOR 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 CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONTRACTOR's activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONTRACTOR, which policies of CONTRACTOR shall not conflict with CITY, State, H.U.D., or United States policies, rules or regulations relating to the use of CONTRACTOR's Funds provided for herein. The CONTRACTOR 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 CONTRACTOR and the CITY and the CITY will not be liable for any obligation incurred by CONTRACTOR, including but not limited to unpaid minimum wages and/or overtime premiums.

ARTICLE 12
TERMINATION

12.1 *Termination for Convenience:* This Agreement may be terminated by CITY for convenience, upon **«Termination_for_Convenience»** of written notice by the terminating party to the other party for such termination in which event CONTRACTOR shall be paid its compensation for services performed to termination date, including services reasonably related to termination. In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, CONTRACTOR shall indemnify CITY against loss pertaining to this termination.

12.2 *Default by CONTRACTOR*: In addition to all other remedies available to CITY, this Agreement shall be subject to cancellation by CITY for cause, should CONTRACTOR neglect or fail to perform or observe any of the terms, provisions, conditions, or requirements herein contained, if such neglect or failure shall continue for a period of thirty (30) days after receipt by CONTRACTOR of written notice of such neglect or failure.

ARTICLE 13
UNCONTROLLABLE FORCES

13.1 Neither CITY nor CONTRACTOR 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.

13.2 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 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
VENUE

15.1 This Agreement shall be governed by the laws of the State of Florida as now and hereafter in force. The venue for actions arising out of this agreement shall be in Broward County, Florida.

ARTICLE 16
SIGNATORY AUTHORITY

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

ARTICLE 17
MERGER; AMENDMENT

17.1 This Agreement constitutes the entire Agreement between CONTRACTOR and CITY, and negotiations and oral understandings between the parties are merged herein. This Agreement can be supplemented or amended only by a written document executed by both CONTRACTOR and CITY with the same formality and equal dignity herewith.

ARTICLE 18
DEFAULT OF CONTRACT & REMEDIES

18.1.1 **Damages.** CITY reserves the right to recover any ascertainable actual damages incurred as a result of the failure of CONTRACTOR to perform in accordance with the requirements of this Agreement, or for losses sustained by CITY resultant from CONTRACTOR's failure to perform in accordance with the requirements of this Agreement.

18.1.2 **Liquidated Damages.** As a breach of the service provided by this Agreement would cause serious and substantial damage to CITY Property, and the nature of this Agreement would render it impracticable or extremely difficult to fix the actual damage sustained by CITY by such

breach, it is agreed that, in case of breach of service wherein CONTRACTOR fails to maintain the Property, leaving the said property in disrepair, CITY may elect to collect liquidated damages for each such breach, and CONTRACTOR will pay CITY as liquidated damages, and not as penalty, **«Liquidated_Damages_Per_Day_Written» («Liquidated_Damages_Per_Day_Numerical»)** for every day of such malfunction. This sum is the agreed upon amount by which CITY will be damaged by the breach of such service. An election to seek such remedies shall not be construed as a waiver of any legal remedies CITY may have as to any subsequent breach of service under this Agreement.

18.1.3 **Correction of Work.** If, in the judgment of CITY, work provided by CONTRACTOR does not conform to the requirements of this Agreement, or if the work exhibits poor workmanship, CITY reserves the right to require that CONTRACTOR correct all deficiencies in the work to bring the work into conformance without additional cost to CITY, and / or replace any personnel who fail to perform in accordance with the requirements of this Agreement. CITY shall be the sole judge of non-conformance and the quality of workmanship.

18.2 **Default of Contract.** The occurrence of any one or more of the following events shall constitute a default and breach of this Agreement by CONTRACTOR:

18.2.1. The abandonment of the Property by CONTRACTOR for a period of more than seven (7) business days.

18.2.2 The abandonment, unnecessary delay, refusal of, or failure to comply with any of the terms of this Agreement or neglect, or refusal to comply with the instructions of the Public Services Director relative thereto.

18.2.3. The failure by CONTRACTOR to observe or perform any of the terms, covenants, or conditions of this Agreement to be observed or performed by CONTRACTOR, where such failure shall continue for a period of seven (7) days after written notice thereof by CITY to CONTRACTOR; provided, however, that if the nature of CONTRACTOR's default is such that more than seven (7) days are reasonably required for its cure, then CONTRACTOR shall not be deemed to be in default if CONTRACTOR commences such cure within said seven (7) day period and thereafter diligently prosecutes such cure to completion.

18.2.4. The assignment and/or transfer of this Agreement or execution or attachment thereon by CONTRACTOR or any other party in a manner not expressly permitted hereunder.

18.2.5. The making by CONTRACTOR of any general assignment or general arrangement for the benefit of creditors, or the filing by or against CONTRACTOR of a petition to have CONTRACTOR adjudged a bankruptcy, or a petition for reorganization or arrangement under any law relating to bankruptcy (unless, in the case of a petition filed against CONTRACTOR, the same is dismissed within sixty (60) days); or the appointment of a trustee or a receiver to take possession of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where possession is not restored to CONTRACTOR within thirty (30) days; for attachment, execution or other judicial seizure of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where such seizure is not discharged within thirty (30) days.

18.3 **Remedies in Default.** In case of default by CONTRACTOR, CITY shall notify CONTRACTOR, in writing, of such abandonment, delay, refusal, failure, neglect, or default and direct him to comply with all provisions of the Agreement. If the abandonment, delay, refusal, failure, neglect or default is not cured within seven (7) days of when notice was sent by CITY, CITY may declare a default of the Agreement and notify CONTRACTOR of such declaration of default and terminate the Agreement.

18.3.1. Upon such declaration of default, all payments remaining due CONTRACTOR at the time of default, less all sums due CITY for damages suffered, or expenses incurred by reason of default, shall be due and payable to CITY.

18.3.2. CITY may complete the Agreement, or any part thereof, either by day labor or re-letting a contract for the same, and procure the equipment and the facilities necessary for the completion of the Agreement, and charge the cost of same to CONTRACTOR and/or the Surety together with the costs incident thereto to such default.

18.3.3. In the event CITY completes the Agreement at a lesser cost than would have been payable to CONTRACTOR under this Agreement, if the same had been fulfilled by CONTRACTOR, CITY shall retain such differences. Should such cost to CITY be greater, CONTRACTOR shall pay the amount of such excess to the CITY.

18.3.4 Notwithstanding the other provisions in this Section, CITY reserves the right to terminate the Agreement at any time, whenever the service provided by CONTRACTOR fails to meet reasonable standards of the trade after CITY gives written notice to the CONTRACTOR of the deficiencies as set forth in the written notice within fourteen calendar (14) days of the receipt by CONTRACTOR of such notice from CITY.

ARTICLE 19
BANKRUPTCY

19.1 It is agreed that if CONTRACTOR is adjudged bankrupt, either voluntarily or involuntarily, then this Agreement shall terminate effective on the date and at the time the bankruptcy petition is filed.

ARTICLE 20
DISPUTE RESOLUTION

20.1 **Arbitration.** In addition to any other remedy provided hereunder, CITY, at its option, may use arbitration to resolve any controversy or claim arising out of or relating to this Agreement if arbitration is elected by CITY. Any controversy or claim arising out of or relating to this Agreement, or breach thereof, may be settled by arbitration in accordance with the rules of the American Arbitration Association and judgment upon the award rendered by the arbitrators may be entered into by any court having jurisdiction thereof. In the event arbitration is elected by CITY, such controversy

or claim shall be submitted to one arbitrator selected from the National Panel of The American Arbitration Association.

20.2 **Operations During Dispute.**

20.2.1 In the event that a dispute, if any, arises between CITY and CONTRACTOR relating to this Agreement, performance or compensation hereunder, CONTRACTOR shall continue to render service in full compliance with all terms and conditions of this Agreement as interpreted by CITY regardless of such dispute.

20.2.2 CONTRACTOR expressly recognizes the paramount right and duty of CITY to provide adequate maintenance of CITY's Property, and further agrees, in consideration for the execution of this Agreement, that in the event of such a dispute, if any, it will not seek injunctive relief in any court, but will negotiate with CITY for an adjustment on the matter or matters in dispute and, upon failure of said negotiations to resolve the dispute, may present the matter to a court of competent jurisdiction in an appropriate suit therefore instituted by it or by CITY.

ARTICLE 21
PUBLIC RECORDS

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

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

21.1.2 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, Fla. Stat., or as otherwise provided by law;

21.1.3 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 contract term and, following completion of the contract, CONTRACTOR shall destroy all copies of such confidential and exempt records remaining in its possession after the CONTRACTOR transfers the records in its possession to the CITY; and

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

21.2 The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the CITY shall enforce the Default in accordance with the provisions set forth in **Article 18**.

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

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

ARTICLE 22
MISCELLANEOUS

22.1 **Ownership of Documents.** Reports, surveys, 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.

22.2 **Legal Representation.** It is acknowledged that each party to this agreement had the opportunity to be represented by counsel in the preparation 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.

22.3 **Records.** CONTRACTOR 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 CONTRACTOR 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.

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

22.5 **No Contingent Fees.** CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONTRACTOR 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 CONTRACTOR 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.

22.6 **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, CONTRACTOR 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

Contractor **«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»**

22.7 **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.

22.8 **Headings.** Headings herein are for the convenience of reference only and shall not be considered in any interpretation of this Agreement.

22.9 **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.

22.10 **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.

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

22.12 **Waiver.** Failure of CITY to insist upon strict performance of any provision or condition of this Agreement, or to execute any right therein contained, shall not be constructed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.

22.13 **Attorney's 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.

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

22.15 **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.

22.16 **Scrutinized Companies.** CONTRACTOR, 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 Florida Statute 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 any agency or local governmental entity for goods or services if:

22.16.1 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 s. 215.4725 or is engaged in a boycott of Israel; or

22.16.2 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:

22.16.2.1 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 s. 215.473; or

22.16.2.2 Is engaged in business operations in Syria.

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:

_____
OFFICE OF THE CITY ATTORNEY

CONTRACTOR:

«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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City/State/Zip:

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E-Mail Address:

Telephone: Fax:

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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:

Mandatory Pre-Bid/Site Visit Confirmation Form

The scanned form, signed by both the Contractor and City Representatives must be uploaded in order for the bid to be considered complete.

_____, who is a representative of
(Printed name of Contractor's representative)

_____ PERSONALLY came and appeared
(Contractor's Company)

before me and affirms that they have completed the mandatory pre-bid/site visit on this the

_____ day of _____, 20_____ as required by:

Solicitation #: _____

Solicitation Title: _____

_____	_____
(Contractor Representative's Printed Name)	(City Representative's Printed Name)
_____	_____
(Contractor Representative's Signature)	(City Representative's Signature)
_____	_____
(Contractor's Company)	(City Representative's Department)
_____	_____
(Contractor's Phone Number)	(City Representative's Phone Number)
_____	_____
(Date)	(Date)

The City requires all questions to be submitted via the BidSync website. Such request must be received by the "Question Due Date," questions received after the "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.

FINAL/PARTIAL RELEASE OF LIEN

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, for and in consideration of the payment of the sum of $**[Payment Amount]** and other valuable consideration, paid by **City of Pembroke Pines**, receipt of which is hereby acknowledge, hereby releases and quit claims to the said **[Contractor Name]** its successors and assigns, and

City of Pembroke Pines

The owner, all liens, lien rights, claims and demands of any kind whatsoever, which the undersigned now has or might have against the building on premises legally described as:

[Description]
PO #: [PO #] **Invoice #: [Invoice #]**

On account of labor performed and/or material furnished for the construction of any improvements thereon. That all labor and materials used by the undersigned in the erection of said improvements have been fully paid for:

Witnesses:

CONTRACTOR
[NAME OF CONTRACTOR]

_____ BY: _____

_____ Print Name: _____
Print Name

_____ Title: _____

_____
Print Name

STATE OF FLORIDA)
) ss:
COUNTY OF BROWARD)

ON THIS _____ day of _____, 20_____, before me, the undersigned notary public, personally appeared **[Contractor's Representative]** as **[Job Title]** of **[Name of Contractor]**, personally known to me, or who has produced _____ as identification, and is the person who subscribed to the foregoing instrument and who acknowledged that (s)he executed the same and that (s)he was duly authorized to do so.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

_____
NOTARY PUBLIC

_____
Print or Type Name

My Commission Expires:

PROJECT MANUAL
Construction Document Phase

City of Pembroke Pines
Waste Water Plant Biosolids
Building Overhang Extension
13795 Pembroke Road
Pembroke Pines, Florida 33027

GLE Project No.: 19000-20771

Prepared for:

City of Pembroke Pines
8300 S. Palm Drive
Pembroke Pine, Florida 33025

Date: May 28, 2019

Prepared by:

5405 Cypress Center Drive, Suite 110
Tampa, Florida 33609
813-241-8350 • Fax 813-241-8737

TABLE OF CONTENTS

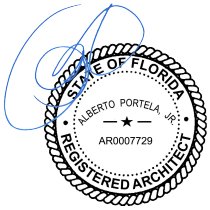
Professional Signatures & Seals

Architect

Alberto Portela, Jr., AIA
AR 007729

GLE Associates, Inc.
5405 Cypress Center Drive
Suite 110
Tampa, FL 33609
Phone: (813) 241-8350
FAX: (813) 241-8737

Digitally signed by Alberto Portela Jr.
Contact Info: 813-241-8350
Date: 2019.05.27 21:04:06-04'00'



GLE Associates, Inc.
AA 0002369 - CA 5483

SECTION 01 1000

SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. Project Name: City of Pembroke Pines Waste Water Plant Biosolids Building Overhang Extension

B. Owner's Name: City of Pembroke Pines.

C. Architect's Name: GLE Associates, Inc..

D. The Project consists of the construction of the replacement of an existing covered canopy.

1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price as described in the construction documents

1.03 OWNER OCCUPANCY

A. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

B. Schedule the Work to accommodate Owner occupancy.

1.04 CONTRACTOR USE OF SITE AND PREMISES

A. Arrange use of site and premises to allow:
   1. Owner occupancy.

B. Provide access to and from site as required by law and by Owner:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 2500

SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

1.02 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittal procedures, coordination.

B. Section 01 6000 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.

1.03 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.

1.04 REFERENCE STANDARDS

A. CSI/CSC Form 1.5C - Substitution Request (During the Bidding/Negotiating Stage); Current Edition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
   4. Waives claims for additional costs or time extension that may subsequently become apparent.
   5. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.

B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.

C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.

D. Limit each request to a single proposed substitution item.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

A. Submittal Form (before award of contract):
   1. Submit substitution requests by completing CSI/CSC Form 1.5C - Substitution Request (During the Bidding/Negotiating Stage). See this form for additional information and instructions. Use only this form; other forms of submission are unacceptable.

B. Owner will consider requests for substitutions only if submitted at least 10 days prior to the date for receipt of bids.

3.03 RESOLUTION

A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.

B. Architect will notify Contractor in writing of decision to accept or reject request.

1. Architect's decision following review of proposed substitution will be noted on the submitted form.

3.04 CLOSEOUT ACTIVITIES

A. See Section 01 7800 - Closeout Submittals, for closeout submittals.

END OF SECTION

SECTION 01 3000

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

1.02 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 01 7000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

B. Make the following types of submittals to Architect:
   1. Requests for Interpretation (RFI).
   2. Requests for substitution.
   3. Shop drawings, product data, and samples.
   4. Manufacturer's instructions and field reports.
   5. Progress schedules.
   6. Coordination drawings.
   7. Correction Punch List and Final Correction Punch List for Substantial Completion.
   8. Closeout submittals.

1.03 PROJECT COORDINATOR

A. Project Coordinator: Owner.

B. During construction, coordinate use of site and facilities through the Project Coordinator.

C. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities. Responsibility for providing temporary utilities and construction facilities is identified in Section 01 1000 - Summary.

D. Make the following types of submittals to Architect through the Project Coordinator:
   1. Requests for Interpretation.
   2. Shop drawings, product data, and samples.
   3. Manufacturer's instructions and field reports.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Project Coordinator will schedule a meeting after Notice of Award.

B. Attendance Required:
   1. Owner.
   2. Contractor.

C. Agenda:
   1. Distribution of Contract Documents.
   2. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
   3. Scheduling.

D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

A. Project Coordinator will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

B. Attendance Required:
   1. Contractor.
   2. Owner.
   3. Contractor's superintendent.

C. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.03 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Shop drawings.
   3. Samples for selection.

B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in the contract documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - Closeout Submittals.

3.04 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 7800 - Closeout Submittals:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

D. Submit for Owner's benefit during and after project completion.

3.05 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect
   1. Retained samples will not be returned to Contractor unless specifically so stated.

3.06 SUBMITTAL PROCEDURES

A. General Requirements:
   1. Use a separate transmittal for each item.

B. Shop Drawing Procedures:
   1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related work.
   2. Do not reproduce the Contract Documents to create shop drawings.
   3. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

3.07 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.

B. Submittals for Information: Architect will not acknowledge receipt, and take no other action.

C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.

END OF SECTION

SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary utilities.

B. Temporary sanitary facilities.

C. Temporary Controls: Barriers, enclosures, and fencing.

D. Security requirements.

E. Waste removal facilities and services.

1.02 RELATED REQUIREMENTS

A. Section 01 5100 - Temporary Utilities.

1.03 TEMPORARY UTILITIES - SEE SECTION 01 5100

A. Owner will provide the following:

1. Electrical power, consisting of connection to existing facilities.
2. Water supply, consisting of connection to existing facilities.

1.04 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

B. Maintain daily in clean and sanitary condition.

1.05 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.06 FENCING

A. Construction: Contractor's option.

1.07 SECURITY - SEE SECTION 01 3553

A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.08 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

B. Provide containers with lids. Remove trash from site periodically.

C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 5100
TEMPORARY UTILITIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary Utilities: Provision of electricity and water.

1.02 TEMPORARY ELECTRICITY

A. Cost: By Owner.

1.03 TEMPORARY WATER SERVICE

A. Cost of Water Used: By Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Re-use of existing products.

B. Transportation, handling, storage and protection.

C. Substitution limitations.

1.02 RELATED REQUIREMENTS

A. Section 01 2500 - Substitution Procedures: Substitutions made during procurement and/or construction phases.

B. Section 01 7419 - Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by the Contract Documents.

B. Use of products having any of the following characteristics is not permitted:
   1. Made using or containing CFC's or HCFC's.
   2. Containing lead, cadmium, or asbestos.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. See Section 01 2500 - Substitution Procedures.

3.02 TRANSPORTATION AND HANDLING

A. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

B. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

C. Transport and handle products in accordance with manufacturer's instructions.

D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

3.03 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 01 7419.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. For exterior storage of fabricated products, place on sloped supports above ground.

E. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

F. Comply with manufacturer's warranty conditions, if any.

G. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

H. Prevent contact with material that may cause corrosion, discoloration, or staining.

I. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

J. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 01 7000

EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Cutting and patching.

C. Surveying for laying out the work.

D. Cleaning and protection.

E. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

1.02 RELATED REQUIREMENTS

A. Section 01 1000 - Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.

1.03 QUALIFICATIONS

A. For demolition work, employ a firm specializing in the type of work required.

B. For surveying work, employ a land surveyor registered in the State in which the Project is located and acceptable to Architect. Submit evidence of surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate. Employ only individual(s) trained and experienced in collecting and recording accurate data relevant to ongoing construction activities,

1.04 PROJECT CONDITIONS

A. Use of explosives is not permitted.

B. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment if required.

C. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

1.05 COORDINATION

A. See Section 01 1000 for occupancy-related requirements.

B. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

C. Notify affected utility companies and comply with their requirements.

D. Coordinate completion and clean-up of work of separate sections.

E. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Examine and verify specific conditions described in individual specification sections.

C. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

D. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.

B. Promptly notify Architect of any discrepancies discovered.

C. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.

D. Utilize recognized engineering survey practices.

E. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Grid or axis for structures.
   2. Building foundation, column locations, ground floor elevations.

3.04 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.05 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Match work that has been cut to adjacent work.
   4. Repair areas adjacent to cuts to required condition.
   5. Repair new work damaged by subsequent work.
   6. Remove and replace defective and non-complying work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Restore work with new products in accordance with requirements of Contract Documents.

E. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.

3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.06 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.07 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

3.08 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.09 FINAL CLEANING

A. Use cleaning materials that are nonhazardous.

B. Clean debris from roofs, gutters, downspouts, and drainage systems.

C. Clean site; sweep paved areas, rake clean landscaped surfaces.

D. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.10 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.
   1. Provide copies to Architect and Owner.

B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.

C. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.

END OF SECTION

SECTION 01 7419

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

A. Owner requires that this project generate the least amount of trash and waste possible.

B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.

D. Methods of trash/waste disposal that are not acceptable are:
   1. Burning on the project site.
   2. Burying on the project site.
   3. Dumping or burying on other property, public or private.
   4. Other illegal dumping or burying.

E. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

PART 3 EXECUTION

2.01 WASTE MANAGEMENT PROCEDURES

A. See Section 01 5000 for additional requirements related to trash/waste collection and removal facilities and services.

B. See Section 01 6000 for waste prevention requirements related to delivery, storage, and handling.

C. See Section 01 7000 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

END OF SECTION

SECTION 01 7800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project Record Documents.

B. Operation and Maintenance Data.

C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Section 01 7000 - Execution and Closeout Requirements: Contract closeout procedures.

C. Individual Product Sections: Specific requirements for operation and maintenance data.

D. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.

B. Operation and Maintenance Data:
   1. Submit two sets of revised final documents in final form within 10 days after final inspection.

C. Warranties and Bonds:
   1. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by Addenda and modifications.

F. Record Drawings: Legibly mark each item to record actual construction including:
   1. Measured depths of foundations in relation to finish first floor datum.
   2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
   4. Field changes of dimension and detail.
   5. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 WARRANTIES AND BONDS

A. Obtain warranties, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

E. Include originals of each in operation and maintenance manuals, indexed separately on Table of Contents.

END OF SECTION

SECTION 02 4100

DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

A. Section 01 1000 - Summary: Limitations on Contractor's use of site and premises.

B. Section 01 5000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

C. Section 01 7000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.03 QUALITY ASSURANCE

A. Demolition Firm Qualifications: Company specializing in the type of work required.

PART 3 EXECUTION

2.01 SCOPE

A. Remove paving and curbs as required to accomplish new work.

2.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   1. Obtain required permits.
   2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
   3. Provide, erect, and maintain temporary barriers and security devices.
   4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
   5. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.

B. Do not begin removal until receipt of notification to proceed from Owner.

C. Protect existing structures and other elements that are not to be removed.

D. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

2.03 EXISTING UTILITIES

A. Protect existing utilities to remain from damage.

2.04 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
   1. Report discrepancies to Architect before disturbing existing installation.
   2. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Remove existing work as indicated and as required to accomplish new work.
   1. Remove items indicated on drawings.

C. Protect existing work to remain.
   1. Prevent movement of structure; provide shoring and bracing if necessary.
   2. Perform cutting to accomplish removals neatly and as specified for cutting new work.

3. Repair adjacent construction and finishes damaged during removal work.
4. Patch as specified for patching new work.

2.05 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Leave site in clean condition, ready for subsequent work.

C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

SECTION 07 4113
METAL ROOF PANELS

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

B. Refer to structural drawings for additional requirements

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2017.

D. IAS AC472 - Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems; 2017.

1.02 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Storage and handling requirements and recommendations.
   2. Installation methods.
   3. Specimen warranty.

C. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions.
   1. Show work to be field-fabricated or field-assembled.
   2. Include structural analysis signed and sealed by qualified structural engineer, indicating compliance of roofing system to specified loading conditions.

D. Selection Samples: For each roofing system specified, submit color chips representing manufacturer's full range of available colors and patterns.

E. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
   1. Accredited by IAS in accordance with IAS AC472.

1.04 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Berridge Manufacturing Company-Double lock, Zee-Lock Standing Metal Seam Roof Panel.

B. Other Acceptable Manufacturers; Metal Roof Panels:
   1. Berridge Manufacturing Company; Cee-Lock: www.berridge.com/#sle.
   2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ARCHITECTURAL METAL ROOF PANELS

A. Architectural Metal Roofing: Provide complete engineered system complying with specified requirements and capable of remaining weathertight while withstanding anticipated movement of substrate and thermally induced movement of roofing system.

B. Metal Panels: Factory-formed panels with factory-applied finish.
   1. Steel Panels:
      a. Zinc-coated steel complying with ASTM A653/A653M; minimum G60 galvanizing.

b. Steel Thickness: Minimum 24 gage (0.024 inch).

2. Profile: Standing seam, with minimum 2.0 inch seam height; concealed fastener system for field seaming with special tool.
3. Texture: Smooth, with intermediate ribs for added stiffness.
4. Length: Full length of roof slope, without lapped horizontal joints.
5. Width: Maximum panel coverage of 16 inches.

2.03 ATTACHMENT SYSTEM

A. Concealed System: Provide manufacturer's standard stainless steel concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.

2.04 FABRICATION

A. Panels: Provide factory or field fabricated panels with applied finish and accessory items, using manufacturer's standard processes as required to achieve specified appearance and performance requirements.

B. Joints: Provide captive gaskets, sealants, or separator strips at panel joints to ensure weathertight seals, eliminate metal-to-metal contact, and minimize noise from panel movements.

2.05 FINISHES

A. Fluoropolymer Coating System: Manufacturer's standard multi-coat thermocured coating system, including minimum 70 percent fluoropolymer color topcoat with minimum total dry film thickness of 0.9 mil; color and gloss to match sample.

2.06 ACCESSORIES

A. Miscellaneous Sheet Metal Items: Provide flashings, gutters, downspouts, trim, moldings, closure strips, and caps of the same material, thickness, and finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel.

B. Rib and Ridge Closures: Provide prefabricated, close-fitting components of steel with corrosion resistant finish or combination steel and closed-cell foam.

C. Sealants:
1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
3. Seam Sealant: Factory-applied, non-skinning, non-drying type.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Coordinate roofing work with provisions for roof drainage, flashing, trim, penetrations, and other adjoining work to assure that the completed roof will be free of leaks.

B. Separate dissimilar metals by applying a bituminous coating, self-adhering rubberized asphalt sheet, or other permanent method approved by roof panel manufacturer.

C. Where metal will be in contact with wood or other absorbent material subject to wetting, seal joints with sealing compound and apply one coat of heavy-bodied bituminous paint.

3.03 INSTALLATION

A. Overall: Install roofing system in accordance with approved shop drawings and panel manufacturer's instructions and recommendations, as applicable to specific project conditions.

Anchor all components of roofing system securely in place while allowing for thermal and structural movement.

1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.
2. Minimize field cutting of panels. Where field cutting is absolutely required, use methods that will not distort panel profiles. Use of torches for field cutting is absolutely prohibited.

B. Accessories: Install all components required for a complete roofing assembly, including flashings, gutters, downspouts, trim, moldings, closure strips, caps, and rib closures.

C. Roof Panels: Install panels in strict accordance with manufacturer's instructions, minimizing transverse joints except at junction with penetrations.

1. Form weathertight standing seams incorporating concealed clips, using an automatic mechanical seaming device approved by the panel manufacturer.
2. Install sealant or sealant tape, as recommended by panel manufacturer, at end laps and side joints.

3.04 CLEANING

A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to the finish.

3.05 PROTECTION

A. Do not permit storage of materials or roof traffic on installed roof panels. Provide temporary walkways or planks as necessary to avoid damage to completed work. Protect roofing until completion of project.

B. Touch-up, repair, or replace damaged roof panels or accessories before Date of Substantial Completion.

END OF SECTION

ATTACHMENT “A”
ECS GEO TECH REPORT

ECS Florida, LLC

Geotechnical Engineering Report

Proposed Canopy Expansion

13975 Pembroke Road
Pembroke Pines, Broward County, Florida

ECS Project Number 25:3473

May 10, 2019

ECS FLORIDA, LLC
"Setting the Standard for Service"
Geotechnical • Construction Materials • Environmental • Facilities

May 10, 2019

Mr. Jose Vazquez, P.E.
Principal
Master Consulting Engineers, Inc.
4101 Ravenswood Road, Suite 307
Fort Lauderdale, Florida 33312

ECS Project No. 25:3473

Reference: Geotechnical Engineering Report
Proposed Canopy Expansion
13975 Pembroke Avenue
Pembroke Pines, Broward, Florida 33027

Dear Mr. Vazquez:

ECS Florida, LLC (ECS) has completed the subsurface exploration, laboratory testing, and geotechnical engineering analyses for the above-referenced project located in Pembroke Pines, Florida. Our services were performed in general accordance with our proposal ECS No. 7041, dated April 9, 2019. This report presents our understanding of the geotechnical aspects of the project, the results of the field exploration and laboratory testing, and provides our design and construction recommendations.

It has been our pleasure to be of service to Master Consulting Engineers, Inc. during the design phase of this project. We would like to provide our services during construction phase operations as well to verify the assumptions of subsurface conditions made for this report. Should you have any questions concerning the information contained in this report, or if we can be of further assistance to you, please do not hesitate to contact us.

Respectfully submitted,
ECS Florida, LLC

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EXECUTIVE SUMMARY

The following summarizes geotechnical information and recommendations for the design of canopy foundations for the proposed canopy expansion project located in Pembroke Pines, Florida. Further, our principal foundation recommendations are summarized. Information gleaned from the executive summary should not be utilized in lieu of reading the entire geotechnical report.

- The project will consist of the expansion of an existing on the south side of the existing structure, formerly known as the “central stores” building at the Wastewater Treatment Plant facility.

- The geotechnical exploration performed for the planned store included two soil test borings, drilled to depths of 20 feet below existing land surface (bls).

- Based on our subsurface exploration, the soil profile at the site generally consists of 1½ inches of asphalt over six inches of base course, underlain by loose to dense weathered-granular limestone as Sand (SP) and Sand with Silt (SP-SM) to the boring termination depths of 20 feet bls.

- Based on the results of our subsurface exploration, it is our opinion that the proposed canopy can be supported on a shallow foundation system bearing on natural soils or compacted structural fill. Details of compaction requirements, loads and the assumed foundation subgrade elevations are contained in the body of the report.

1.0 INTRODUCTION

1.1 GENERAL

The purpose of this study was to provide geotechnical design recommendations for the proposed canopy expansion project located in Pembroke Pines, Florida.

The recommendations developed for this report are based on project information supplied by Master Consulting Engineers, Inc. (MCE). Structural details are not yet available for the canopy expansion. This report contains the results of our subsurface explorations and laboratory testing programs, site characterization, engineering analyses, and recommendations for the design and construction of planned canopy expansion.

1.2 SCOPE OF SERVICES

To obtain the necessary geotechnical information required for foundation design of the proposed canopy structure, two soil test borings were performed at locations selected by ECS and approved by the City of Pembroke Pines. A laboratory-testing program was also implemented to characterize the physical and engineering properties of the subsurface soils.

This report discusses our exploratory and testing procedures, presents our findings and evaluations, and includes the following aspects:

- A brief review and description of our field and laboratory test procedures and the results of testing conducted.
- A review of area and site geologic conditions.
- A review of subsurface soil stratigraphy with pertinent available physical properties.
- Final copies of our soil exploration/test boring logs.
- Recommendations for site preparation and construction of compacted fills.
- Recommended foundation type.
- Evaluation and recommendations relative to groundwater control.

1.3 AUTHORIZATION

Our services were provided in accordance with our Proposal No. 25: 7041-GP, dated April 9, 2019, as authorized by Master Consulting Engineers, Inc. (MCE) on April 16, 2019, including our terms and conditions.

2.0 PROJECT INFORMATION

2.1 PROJECT LOCATION

The site is located in the northeast quadrant of Pembroke Road and SW 145th Avenue in Pembroke Pines, Florida. The property is bounded to the south by Pembroke Road, to the west by SW 145th Avenue and to the east by SW 142nd Avenue. Figure 2.1.1 below shows the site location.

Figure 2.1.1 Site Location

2.2 PAST SITE HISTORY/USES

ECS reviewed aerial photographs of the subject property and immediate surrounding properties on Google Earth and NETR Online Historical Imagery databases. The aerial photographs reviewed were dated 1940, 1952, 1961, 1969, 1980, 1986, 1994, 1999, 2006, 2013 and 2015.

The 1940 through 1969 aerial photographs shows the subject site as undeveloped land covered with native vegetation.

The 1980 aerial photograph shows the project site remains vacant and undeveloped. Drainage canals have been excavated and road construction has begun as part of the development on the eastern adjacent property.

The 1986 aerial photograph shows the original wastewater treatment plant in the southeast portion of the property. An amenity lake has been constructed with the residential development on the eastern adjacent property

The 1994 through 2015 aerial photographs show the gradual expansion of the wastewater treatment plant site to the west and north of the original plant from the 1986 photograph.

2.3 CURRENT SITE CONDITIONS

A site visit was conducted by a staff engineer from ECS prior to the start of drilling operations to observe existing site conditions.

The subject property consists of the existing wastewater treatment plant facility. The project site consists of an existing prefabricated metal structure with an existing canopy over the driveway on the south side of the building. An asphalt driveway is located between the structure and a nearby water tank.

2.4 PROPOSED CONSTRUCTION

Based on the provided preliminary site plan, we understand that the project will consist of replacing the existing canopy with a larger canopy at the existing structure.

2.4.1 Site Civil Features

Site civil for the site may include minor grading for the proposed canopy expansion. The site is generally flat and fill may be required. Due to the flat topography cuts are not anticipated. Ground surface elevations of the site were not available at the time of preparation of this report; approximate elevations were obtained utilizing Google Earth and should not be used for design purposes.

No planned new stormwater management structures were identified to ECS prior to our exploration. We expect that stormwater management will take advantage of existing urban stormwater structures.

2.4.2 Structural Information/Loads

The following information, included in Table 2.4.2.1, explains our understanding of the proposed canopy and its structural information:

Table 2.4.2.1 Canopy Design Values

SUBJECT	DESIGN INFORMATION / EXPECTATIONS
Canopy Footprint	In plan view +/-2,400 square feet (S.F.)
Column Loads(1)	Assumed 30 kips (Full Dead and Factored Live) maximum
Wall Loads(1)	N/A
Lowest Finish Floor Elevation(2)	Approximately same as existing grades (+5.0 ft)

Notes: (1) If the assumed loads differ from final structural loads, ECS must be contacted to revise foundation design recommendations.
(2) Please note that the ground surface elevations were not surveyed by a licensed surveyor; these elevations are approximate based on Google-Earth©; therefore; elevations described in this report may not be relied upon for site design.

3.0 FIELD EXPLORATION

3.1 FIELD EXPLORATION PROGRAM

The field exploration was planned with the objective of characterizing the project site in general geotechnical and geological terms and to evaluate subsequent field and laboratory data to assist in the determination of geotechnical recommendations.

3.1.1 Test Borings

The subsurface conditions were explored by drilling two soil test borings within the vicinity of the proposed canopy footprint. A truck-mounted drill rig was utilized to drill the soil test borings. Drilling fluid was used in this process to prevent borehole from collapsing. Borings were advanced to a depth of 20 feet below the existing ground surface within the vicinity of the proposed canopy area. Subsurface explorations were completed under the general supervision of an ECS geotechnical engineer.

Boring locations were identified in the field by ECS prior to mobilization of our drilling equipment. The approximate as-drilled boring locations are shown on the Boring Location Diagram in Appendix A. Ground surface elevations of the site were not available at the time of preparation of this report; approximate elevations were obtained utilizing Google Earth and should not be used for design purposes.

Standard penetration tests (SPTs) were conducted in the borings at regular intervals in general accordance with ASTM D 1586. Small representative samples were obtained during these tests and were used to classify the soils encountered. The standard penetration resistances obtained provide a general indication of soil shear strength and compressibility.

3.2 REGIONAL/SITE GEOLOGY

South Florida region is located on the southern flank of Florida Plateau, a stable, carbonate platform on which thick deposits of limestones, dolomites, and evaporates have accumulated. The general geology of the upper 200 feet of this platform within the area of South Florida where the proposed project is to be located is composed predominantly of limestone and quartz sand. The major geological formation that is usually encountered from top to bottom within Miami-Dade County is Miami Limestone.

The following table below describes the generalized stratigraphic column of the general local geology and subsurface materials that may be associated with the geologic units also shown:

Table 3.2.1 Local Geology

Geologic Formation	Subsurface Materials
Miami Limestone (Qm)	Oolitic Limestone (small round grains usually of calcium carbonate cemented with sand) with Uncemented Sand.

Geologic Formation details for Table 3.2.1 obtained from the Florida Department of Environmental Protection website, *http://www.dep.state.fl.us/geology/gisdatamaps/state_geo_map.htm*

The following Figure 3.2.1 presents the regional geological map and approximate site location.

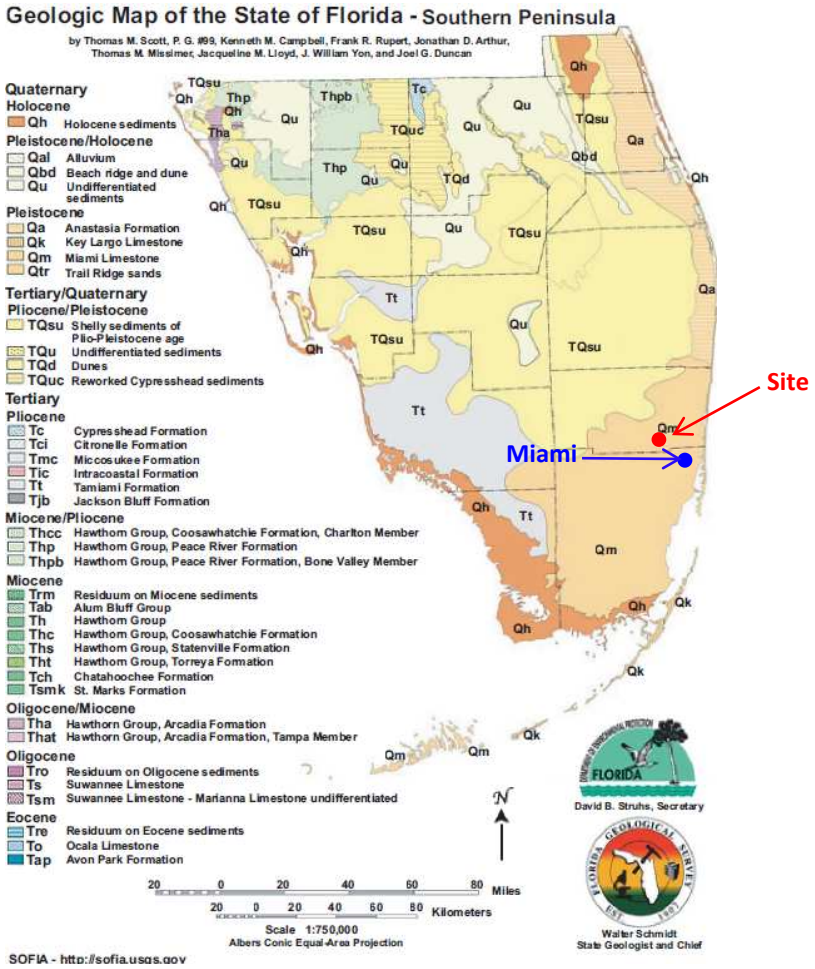


Figure 3.2.1 South Florida Geological Map

Geologic map for Figure 3.2.1 obtained from the Florida Department of Environmental Protection website, *http://www.dep.state.fl.us/geology/gisdatamaps/state_geo_map.htm*

3.3 SOIL SURVEY MAPPING

Based on the Soil Survey for Miami-Dade County Area, Florida, (Tabular Data: Version 9, September 17, 2018 and Spatial Data: Version 2, December 13, 2013) by the US Department of Agriculture Soil Conservation Service (USDA); the predominant soil type at the site is identified as Lauderhill Muck.

Table 3.3.1 Soil Characteristics

Soil Type	Constituents	Drainage Class	Water Table
18 –Lauderhill Muck- 0 to 1 percent slope	Organic material over weathered limestone	Very Poorly Drained	About 0 inches

Figure 3.3.1 was obtained from USDA Web Soil Survey depicts soil site mapping and soil numbers relative to the predominant predevelopment soil types identified on site.

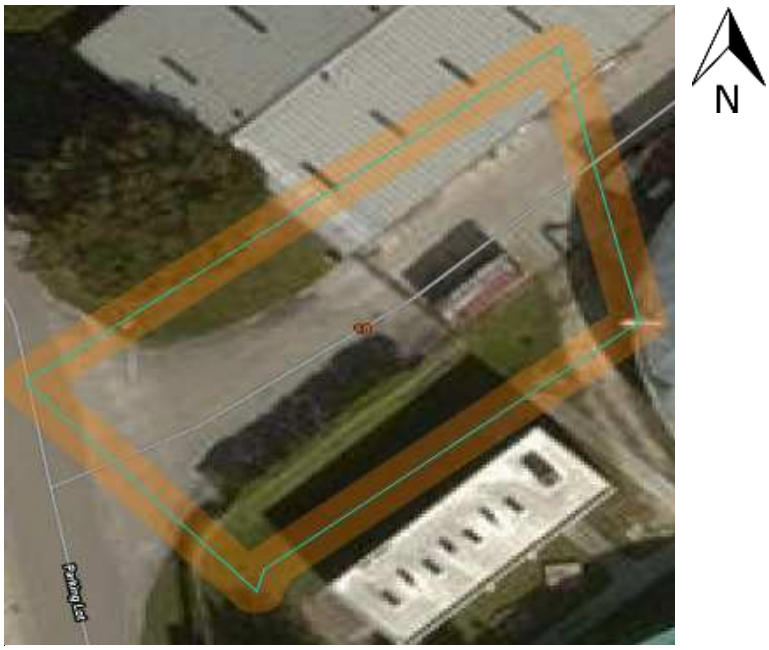


Figure 3.3.1 Site Soil Mapping

Soil map for Figure 3.3.1 obtained *from* USDA – Natural Resources Conservation Service;
https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

3.4 SUBSURFACE CHARACTERIZATION

The subsurface conditions encountered were generally consistent with published geological mapping. Table 3.4.1 includes the description of the surface stratigraphy and the following sections provide generalized characterizations of the sandy soils strata encountered during our subsurface exploration. At the time our exploration was performed, a topographic survey was not provided to ECS. We used the information from Google Earth© to estimate surface elevations; these evaluations should not be used for design purposes, they are only provided for illustrative intentions. Once more site specific data is available we will update our logs and diagrams. For subsurface information at a specific location, refer to the boring logs included in Appendix B.

Table 3.4.1 Subsurface Stratigraphy

Approximate Depth Range (ft)	Approximate Elevation (ft)[2]	Stratum	Description	Ranges of SPT[1] N-values (bpf)
0 – 0.7	EL +5.0 to +4.3	I	1-½ inch asphalt over 6 inches base course	-
0.7 – 20.0	EL +4.3 to -15.0	II	WEATHERED-GRANULAR LIMESTONE as Sand (SP) and Sand with Silt (SP-SM), Light Tan, Moist to Saturated, Very Loose to Medium Dense	6 - 42

Notes: (1) Standard Penetration Test
(2) Please note that the ground surface elevations were not surveyed by a licensed surveyor; these elevations are approximate based on Google-Earth©; therefore; elevations described in this report may not be relied upon for site design.

3.5 GROUNDWATER OBSERVATIONS

Water levels were measured in our borings as noted on the soil boring logs located in Appendix B. Groundwater depths measured at the time of drilling were approximately 4.5 feet below ground surface (or EL. +0.5 feet); consider these elevations approximate. No further water measurements were conducted after drilling was finished. Variations in the long-term water table may occur as a result of changes in precipitation, evaporation, surface water runoff, construction activities, and other factors. Based upon our interpretation of the boring data, it appears that the seasonal high groundwater level can be found at a depth of two feet below existing grades (or EL. +3.0 feet); consider these elevation approximate. Once survey elevations are calculated actual elevations must be estimated.

Please note that the ground surface elevations were not surveyed by a licensed surveyor. Therefore, groundwater elevations described in this report may not be relied upon for site design purposes.

4.0 LABORATORY TESTING

The laboratory testing conducted by ECS for this project consisted of selected tests performed on samples obtained during our field exploration operations. The following paragraphs briefly discuss the results of the completed laboratory testing program. Classification and index property tests were performed on representative soil samples obtained from the test borings in order to aid in classifying soils according to the Unified Soil Classification System and to quantify and correlate engineering properties.

An experienced staff geotechnical engineer visually classified each soil sample from the test borings on the basis of texture and plasticity in accordance with the Unified Soil Classification System (USCS) and ASTM D-2488 (Description and Identification of Soils-Visual/Manual Procedures). After classification, the staff geotechnical engineer grouped the various soil types into the major zones noted on the boring logs included in Appendix B. The group symbols for each soil type are indicated in parentheses before the soil descriptions on the boring logs. The stratification lines designating the interfaces between earth materials on the boring logs are approximate; in situ, the transitions may be gradual.

Laboratory testing included two Wash #200 sieve analyses and two moisture content tests on samples obtained from Borings B-1 and B-2. Test results indicated approximately 6.1 to 8.8 percent of the soil at that indicated depth is fine particles passing a number 200 sieve with a moisture content ranging from approximately 8.1 to 13.5 percent, as indicated on the attached boring logs. A summary table showing laboratory test results and locations is included at the end of the report in Appendix C.

5.0 DESIGN RECOMMENDATIONS

5.1 CANOPY DESIGN

The following sections provide recommendations for foundation design for the proposed canopy. Based on the results of our geotechnical exploration, geotechnical analysis and provided structural loads, the encountered soils are appropriate to support the proposed structure if earthwork recommendations herein are followed.

5.1.1 Shallow Foundation

Provided subgrades and structural fills are prepared as discussed herein, the proposed canopy structure can be supported by conventional shallow foundations: individual column footings. The design of the foundation shall utilize the following parameters listed below in Tables 5.1.1.1.

Table 5.1.1.1 Foundation Design

Design Parameter	Column Footing
Net Allowable Bearing Pressure(1)	3,000 psf
Acceptable Bearing Soil Material	Medium Dense Sand - Stratum I
Minimum Width	24 inches
Minimum Footing Embedment Depth (below slab or finished grade)	24 inches
Estimated Total Settlement(2)	One inch
Estimated Differential Settlement(2)	Less than 0.5 inches between columns

Note: (1) Net allowable bearing pressure is the applied pressure in excess of the surrounding overburden soils above the base of the foundation.
(2) Based on assumed structural loads. If final loads are different, ECS must be contacted to update foundation recommendations and conduct settlement calculations.

6.0 SITE CONSTRUCTION RECOMMENDATIONS

6.1 SUBGRADE PREPARATION

6.1.1 Stripping and Grubbing

The subgrade preparation should consist of stripping all asphalt, concrete, vegetation, rootmat, and any other soft or unsuitable materials from the five-foot expanded building limits. ECS should be called on to verify that topsoil and unsuitable surficial materials have been completely removed prior to the placement of Structural Fill or construction of structures.

At the time of our field exploration, the project site contained an existing canopy and paved drive areas. We anticipate the removal of all the existing structures and drive/parking areas prior to construction. Following demolition of the existing on-site features and prior to placing any required fill, pavement, or flatwork, the following guidelines should be followed.

6.1.2 Proofrolling

After removing all unsuitable surface materials, cutting to the proposed grade, and prior to the placement of any structural fill or other construction materials, the exposed subgrade should be examined by the Geotechnical Engineer or authorized representative. The exposed subgrade should be thoroughly compacted and then proofrolled with previously approved construction equipment having a minimum axle load of ten tons (e.g. fully loaded tandem-axle dump truck). The areas subject to proofrolling should be traversed by the equipment in two perpendicular (orthogonal) directions with overlapping passes of the vehicle under the observation of the Geotechnical Engineer or authorized representative. This procedure is intended to assist in identifying any localized yielding materials. In the event that unstable or “pumping” subgrade is identified by the proofrolling, those areas should be marked for repair prior to the placement of any subsequent structural fill or other construction materials. Methods of repair of unstable subgrade, such as undercutting or moisture conditioning or chemical stabilization, should be discussed with the Geotechnical Engineer to determine the appropriate procedure with regard to the existing conditions causing the instability. A test pit(s) may be excavated to explore the shallow subsurface materials in the area of the instability to help in determining the cause of the observed unstable materials and to assist in the evaluation of the appropriate remedial action to stabilize the subgrade.

6.1.3 Site Temporary Dewatering

General Groundwater Conditions: Groundwater observations are described in Section 3.5 of this report. The depth at which groundwater is present on the site varies with surface elevation. In low-lying areas the presence of groundwater is more pronounced. Soils at contact with groundwater levels were very moist to wet.

Based upon our subsurface exploration at this site, as well as significant experience on sites in nearby areas of similar geologic setting, we believe construction dewatering at this site will be

limited to mainly removing accumulated rain water and some minor seepage from utility excavation.

Deep wells will not be required for the temporary dewatering system. However, the dewatering operations can be handled by the use of conventional submersible pumps directly in the excavation or temporary trenches to remove water from the excavation. If temporary sump pits are used, we recommend they be established at an elevation three to five feet below the bottom of the excavation subgrade or bottom of footing. A perforated 55 gallon drum or other temporary structure could be used to house the pump. We recommend continuous dewatering of the excavations using electric pumps or manned gasoline pumps be used during construction.

6.1.4 Subgrade Stabilization

Subgrade Compaction: Upon completion of subgrade documentation, the exposed subgrade within the five-foot expanded building limits should be moisture conditioned to within +/- two percent of the soil's optimum moisture content and be compacted with suitable equipment (minimum ten-ton roller) to a depth of ten inches. Subgrade compaction within the expanded building, pavement, and embankment limits should be to a dry density of at least 98 percent of the Standard Proctor maximum dry density (ASTM D698). Beyond these areas, compaction of at least 95 percent should be achieved. ECS should be called on to document that proper subgrade compaction has been achieved.

Subgrade Compaction Control: The expanded limits of the proposed construction areas should be well defined, including the limits for the building, fills, and slopes, etc. Field density testing of subgrades will be performed at frequencies in Table 6.1.4.1

Table 6.1.4.1 Frequency of Subgrade Compaction Testing

Location	Frequency of Tests
Expanded Building Area Limits	One test per 1,000 sq. ft. per lift
Utility Trenches	One test per 200 linear ft. per lift
All Other Non-Critical Areas	One test per 5,000 sq. ft. per lift

Subgrade Stabilization: In some areas, particularly low-lying, wet areas of the site, undercutting of excessively soft materials may be considered inefficient. In such areas the use of a reinforcing geotextile or geogrid might be employed, under the advisement of ECS. Suitable stabilization materials may include medium duty woven geotextile fabrics or geogrids. The suitability and employment of reinforcing or stabilization products should be determined in the field by ECS personnel, in accordance with project specifications.

6.2 EARTHWORK OPERATIONS

6.2.1 Structural Fill Materials

Product Submittals: Prior to placement of Structural Fill, representative bulk samples (about 50 pounds) of on-site and off-site borrow should be submitted to ECS for laboratory testing, which will include, natural moisture content, grain-size distribution, and moisture-density relationships

for compaction. Import materials should be tested prior to being hauled to the site to determine if they meet project specifications.

Satisfactory Structural Fill Materials: Materials satisfactory for use as Structural Fill should consist of inorganic soils classified as SW, SP, GW, GP, GM and GC, or a combination of these group symbols, per ASTM D 2487. The materials should be free of organic matter, debris, and should contain no particle sizes greater than four inches in the largest dimension. Open graded materials, such as Gravels (GW and GP), which contain void space in their mass should not be used in structural fills unless properly encapsulated with filter fabric.

Unsatisfactory Materials: Unsatisfactory fill materials include materials which do not satisfy the requirements for suitable materials, as well as topsoil and organic materials (Pt, OH, OL), Silty/Silt (SM, MH, ML), and Clayey/Clay (SC, CH, CL).

6.2.2 Compaction

Structural Fill Compaction: Structural Fill within the expanded canopy limit should be placed in maximum 12-inch loose lifts, moisture conditioned as necessary to within +/- two percent of the soil's optimum moisture content, and be compacted with suitable equipment to a dry density of at least 98 percent of the Standard Proctor maximum dry density (ASTM D698). Beyond these areas, compaction of at least 95 percent should be achieved. ECS should be called on to document that proper fill compaction has been achieved.

Fill Compaction Control: The expanded limits of the proposed construction area should be well defined, including the limits of the fill zones for the building, pavements, and slopes, etc., at the time of fill placement. Grade controls should be maintained throughout the filling operations. All filling operations should be observed on a full-time basis by a qualified representative of the construction testing laboratory to determine that the minimum compaction requirements are being achieved. Field density testing of fills will be performed at the frequencies shown in Table 6.2.2.1, but not less than one test per lift.

Table 6.2.2.1 Frequency of Compaction Tests in Fill Areas

Location	Frequency of Tests
Expanded Building Area Limits	One test per 1,000 sq. ft. per lift
Utility Trenches	One test per 200 linear ft. per lift
All Other Non-Critical Areas	One test per 5,000 sq. ft. per lift

Compaction Equipment: Compaction equipment suitable to the soil type being compacted should be used to compact the subgrades and fill materials. A vibratory steel drum roller should be used for compaction of coarse-grained soils (Sands) as well as for sealing compacted surfaces.

Fill Placement Considerations: Fill materials should not be placed on excessively wet soils. Excessively wet soils or aggregates should be scarified, aerated, and moisture conditioned.

At the end of each work day, all fill areas should be graded to facilitate drainage of any precipitation and the surface should be sealed by use of a smooth-drum roller to limit infiltration of surface water. During placement and compaction of new fill at the beginning of each workday, the

Contractor may need to scarify existing subgrades to a depth on the order of four inches so that a weak plane will not be formed between the new fill and the existing subgrade soils.

Drying and compaction of wet soils is typically difficult during the rainy season. Accordingly, earthwork should be performed during the drier times of the year, if practical. Proper drainage should be maintained during the earthwork phases of construction to prevent ponding of water which has a tendency to degrade subgrade soils. Alternatively, if these soils cannot be stabilized by conventional methods as previously discussed, additional modifications to the subgrade soils such as cement stabilization may be utilized to adjust the moisture content. If cement is utilized to control moisture contents and/or for stabilization, regular Type 1 cement can be used. The construction testing laboratory should evaluate proposed cement soil modification procedures, such as quantity of additive and mixing and curing procedures, before implementation.

Fill material should be placed in horizontal lifts in confined areas such as utility trenches, portable compaction equipment and thin lifts of three inches to four inches may be required to achieve specified degrees of compaction.

We recommend that the grading contractor have equipment on site during earthwork for both drying and wetting fill soils. We do not anticipate significant problems in controlling moisture within the fill during dry weather, but moisture control may be difficult during extended periods of rain.

6.3 FOUNDATION AND SLAB OBSERVATIONS

Protection of Foundation Excavations: Exposure to the environment may weaken the soils at the footing bearing level if the foundation excavations remain open for too long a time. Therefore, foundation concrete should be placed the same day that excavations are made. If the bearing soils are softened by surface water intrusion or exposure, the softened soils must be removed from the foundation excavation bottom immediately prior to placement of concrete. If the excavation must remain open overnight, or if rainfall becomes imminent while the bearing soils are exposed, a one to three-inch thick “mud mat” of “lean” concrete should be placed on the bearing soils before the placement of reinforcing steel.

Footing Subgrade Observations: Most of the soils at the foundation bearing elevation are anticipated to be suitable for support of the proposed structure. It will be important to have the geotechnical engineer of record observe the foundation subgrade prior to placing foundation concrete, to confirm the bearing soils are what was anticipated. If soft or unsuitable soils are observed at the footing bearing elevations, the unsuitable soils should be undercut and removed. Any undercut should be backfilled with lean concrete ($f'_c \geq 1{,}000$ psi at 28 days) up to the original design bottom of footing elevation; the original footing shall be constructed on top of the hardened lean concrete. Dynamic Cone Penetration (DCP) Testing is to be performed to confirm allowable bearing capacity at footing bearing elevation for spread footings and at every 50 linear feet for wall footings to a depth of five feet below the footing bottoms.

Slab Subgrade Verification: A representative of ECS should be called on to observe exposed subgrades within the expanded building limits prior to Structural Fill Placement to assure that adequate subgrade preparation has been achieved. A proofrolling using a drum roller or loaded dump truck should be performed in their presence at that time. Once subgrades have been

prepared to the satisfaction of ECS, subgrades should be properly compacted and new Structural Fill can be placed. Existing subgrades to a depth of at least 10 inches and all Structural Fill should be moisture conditioned to within +/- two percentage points of optimum moisture content then be compacted to the required density. If there will be a significant time lag between the site grading work and final grading of concrete slab areas prior to the placement of the subbase stone and concrete, a representative of ECS should be called on to verify the condition of the prepared subgrade. Prior to final slab construction, the subgrade may require scarification, moisture conditioning, and re-compaction to restore stable conditions. DCP Testing is to be performed to confirm allowable bearing capacity within building pad area.

6.4 GENERAL CONSTRUCTION CONSIDERATIONS

Moisture Conditioning: During the wetter periods of the year, delays and additional costs should be anticipated. At these times, reduction of soil moisture may need to be accomplished by a combination of mechanical manipulation and the use of chemical additives, such as lime or cement, in order to lower moisture contents to levels appropriate for compaction. Alternatively, during the drier times of the year, such as the summer months, moisture may need to be added to the soil to provide adequate moisture for successful compaction according to the project requirements.

Subgrade Protection: Measures should also be taken to limit site disturbance, especially from rubber-tired heavy construction equipment, and to control and remove surface water from development areas, including structural and pavement areas. It would be advisable to designate a haul road and construction staging area to limit the areas of disturbance and to prevent construction traffic from excessively degrading sensitive subgrade soils and existing pavement areas. Haul roads and construction staging areas could be covered with excess depths of aggregate to protect those subgrades. The aggregate can later be removed and used in pavement areas.

Surface Drainage: Surface drainage conditions should be properly maintained. Surface water should be directed away from the construction area, and the work area should be sloped away from the construction area at a gradient of one percent or greater to reduce the potential of ponding water and the subsequent saturation of the surface soils. At the end of each work day, the subgrade soils should be sealed by rolling the surface with a smooth drum roller to minimize infiltration of surface water.

Excavation Safety: Cuts or excavations associated with utility excavations may require forming or bracing, slope flattening, or other physical measures to control sloughing and/or prevent slope failures. Contractors should be familiar with applicable OSHA codes to ensure that adequate protection of the excavations and trench walls is provided.

Erosion Control: The surface soils may be erodible. Therefore, the Contractor should provide and maintain good site drainage during earthwork operations to maintain the integrity of the surface soils. All erosion and sedimentation controls should be in accordance with sound engineering practices and local requirements.

7.0 CLOSING

ECS has prepared this report of findings, evaluations, and recommendations to guide geotechnical-related design and construction aspects of the project.

The description of the proposed project is based on information provided to ECS by Master Consulting Engineers, Inc. (MCE). If any of this information is inaccurate, either due to our interpretation of the documents provided or site or design changes that may occur later such as final structural loads, ECS should be contacted immediately in order that we can review the report in light of the changes and provide additional or alternate recommendations as may be required to reflect the proposed construction.

We recommend that ECS be allowed to review the project's plans and specifications pertaining to our work so that we may ascertain consistency of those plans/specifications with the intent of the geotechnical report.

Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of and integral to the geotechnical design recommendation. We recommend that the owner retain these quality assurance services and that ECS be allowed to continue our involvement throughout these critical phases of construction to provide general consultation as issues arise. ECS is not responsible for the conclusions, opinions, or recommendations of others based on the data in this report.

APPENDIX A – Drawings & Reports

Site Vicinity Diagram
Boring Location Diagram
Geologic Map
USDA Soil Survey Map

SSITE VICINITY DIAGRAM
PROPOSED CANOPY EXTENSION

13975 PEMBROKE RD, PEMBROKE PINES, FL
MASTER CONSULTING ENGINEERS, INC.

ENGINEER	LJM/JA
SCALE	1 " = 80 '
PROJECT NO.	25:3473
SHEET	1 OF 1
DATE	5/10/2019

BORING LOCATION DIAGRAM
PROPOSED CANOPY

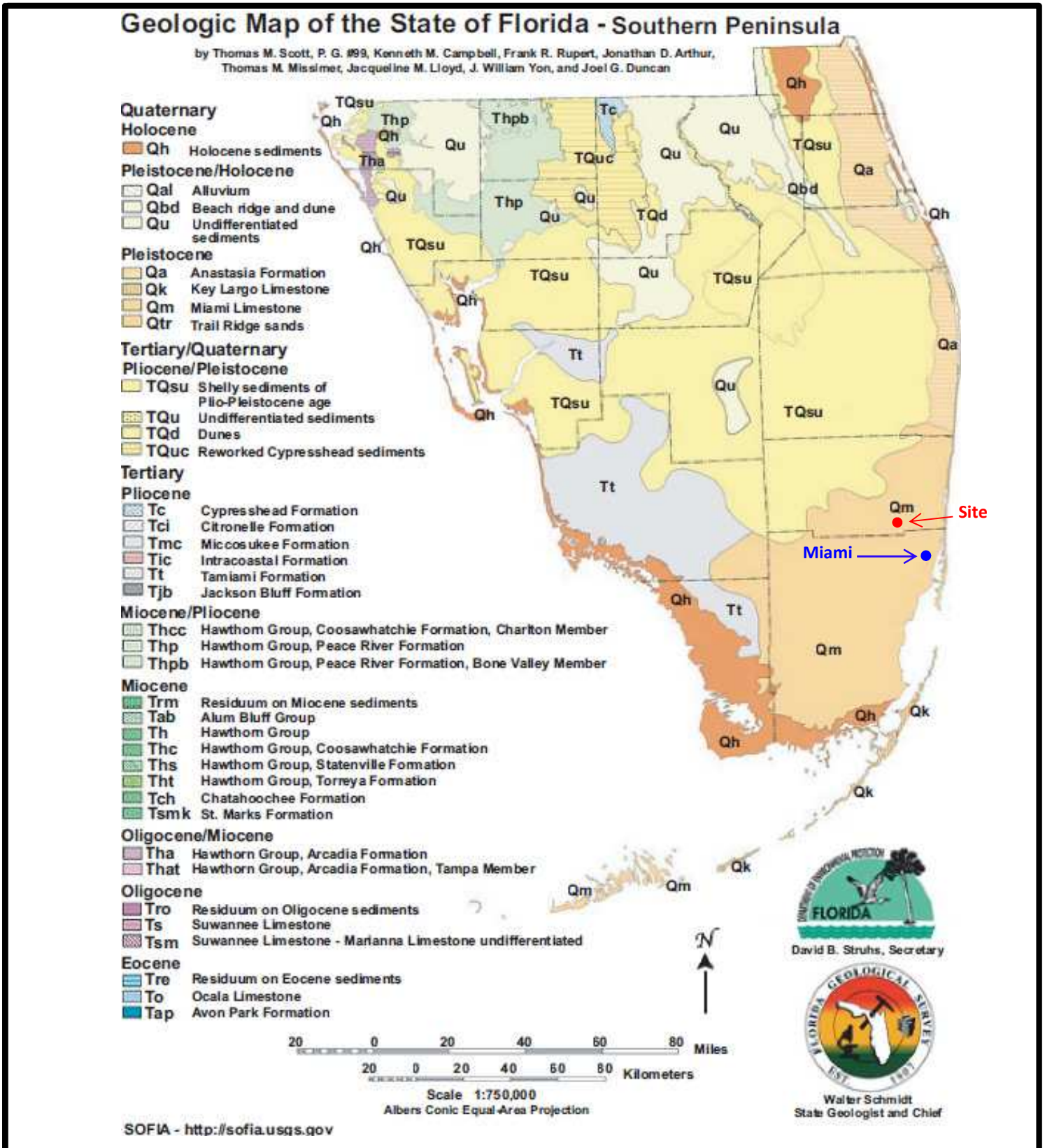
13975 PEMBROKE ROAD, PEMBROKE PINES, FL

/

3473

2 2

2019

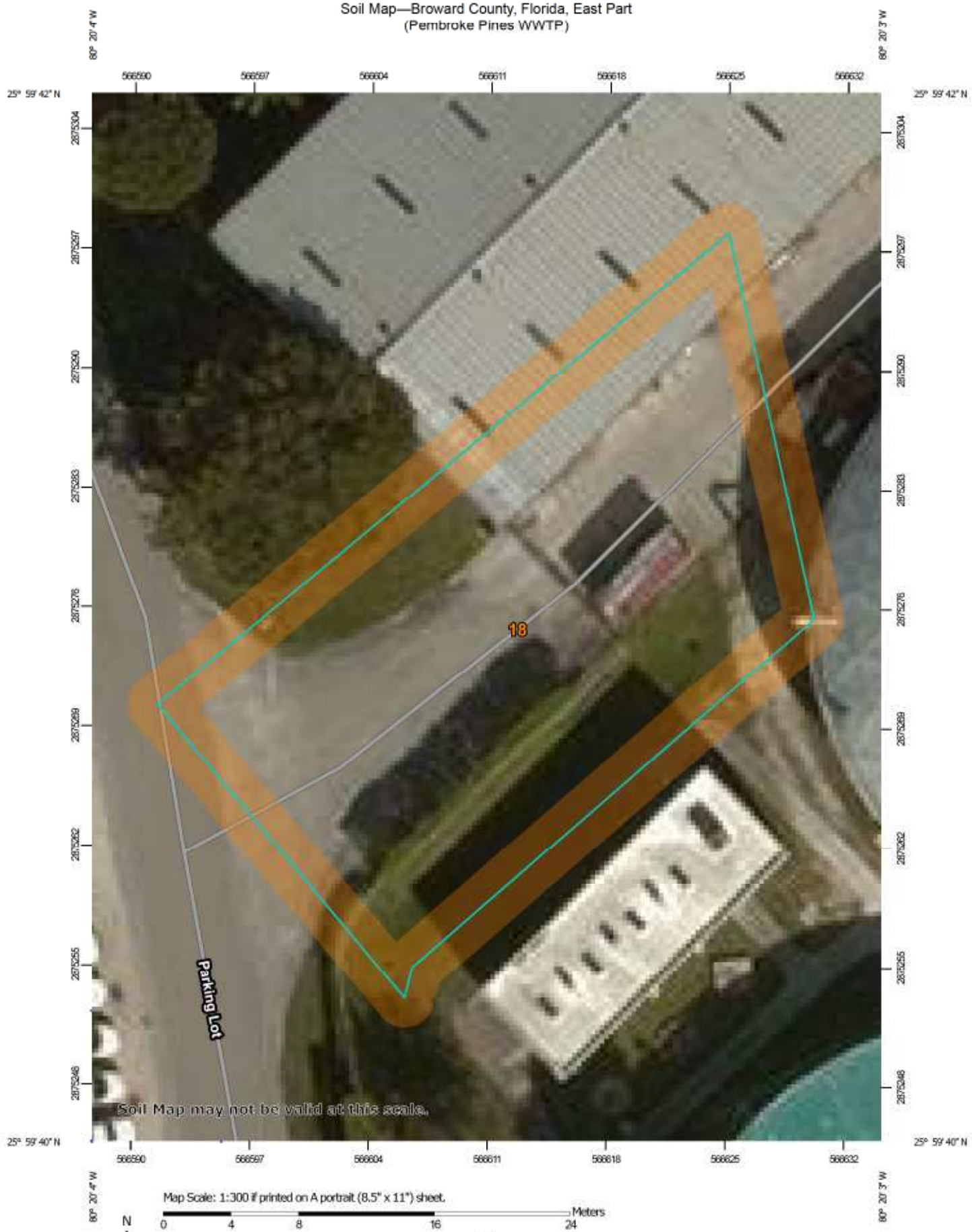


3.2.1

OBTAINED FROM THE UNITED STATE GEOLOFICAL SURVEY PUBLICATIONS WAREHOUSE WEBISTE

https://sofia.er.usgs.gov/publications/maps/florida_geology/#sections

Soil Map—Broward County, Florida, East Part
(Pembroke Pines WWTP)



Map Scale: 1:300 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 8 16 24

Feet: 0 10 20 40 60

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Broward County, Florida, East Part
Survey Area Data: Version 14, Sep 17, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 17, 2014—Feb 11, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

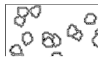
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
18	Lauderhill muck, frequently ponded, 0 to 1 percent slopes	0.2	100.0%
Totals for Area of Interest		**0.2**	**100.0%**

APPENDIX B – Field Operations

Reference Notes for Boring Logs
Boring Logs B-1 and B-2

1,2



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1.00 - <2.00	9 - 15	
2.00 - <4.00	16 - 30	
4.00 - 8.00	31 - 50	
>8.00	>50	

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5 - 10	
11 - 30	
31 - 50	
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CLIENT	Job #:	BORING #	SHEET
Master Consulting Engineers, Inc.	25:3473	B-1	1 OF 1

PROJECT NAME	ARCHITECT-ENGINEER
Proposed Canopy Expansion	

SITE LOCATION

13975 Pembroke Road, Pembroke Pines, Broward, FL

NORTHING	EASTING	STATION
9433307.101	1858984.19	

CALIBRATED PENETROMETER TONS/FT^2

ROCK QUALITY DESIGNATION & RECOVERY
RQD% – — – REC% ———

PLASTIC LIMIT% | WATER CONTENT% | LIQUID LIMIT%

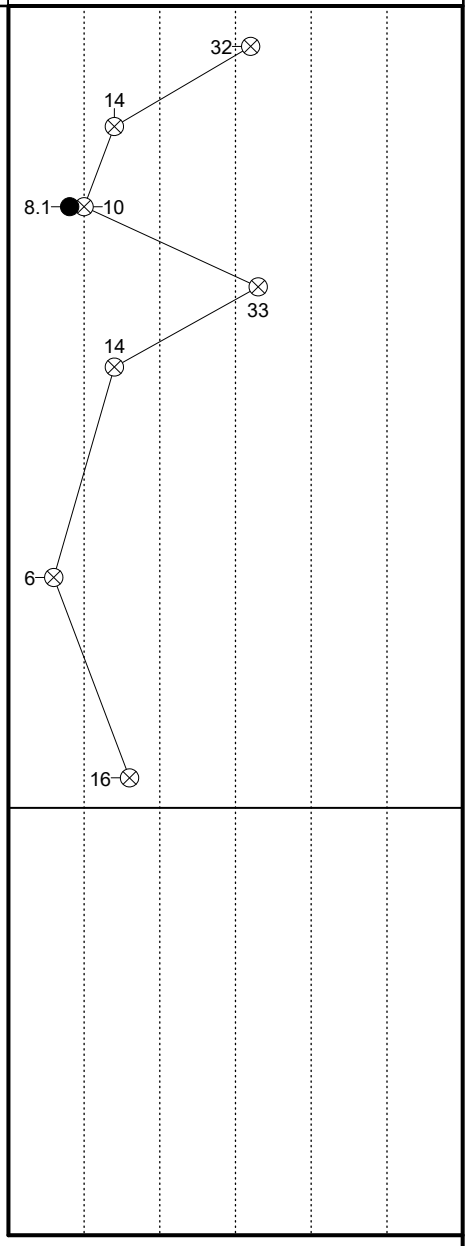
STANDARD PENETRATION BLOWS/FT

DESCRIPTION OF MATERIAL — ENGLISH UNITS

BOTTOM OF CASING | LOSS OF CIRCULATION

SURFACE ELEVATION 6.0

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6"
0	S-1	SS	24	24	Asphalt Thickness [2.00"] Gravel Thickness [6.00"]		5	34 19 13 14
	S-2	SS	24	24	(SP) SAND, With Crushed Limestone and Asphalt Debris, Light Gray, Moist, Medium Dense			7 7 7 4
5	S-3	SS	24	24	(SP-SM) SAND WITH SILT, With Weathered Limestone-Granular, Gray, Moist to Saturated, Dense	▽	0	4 4 16 23
	S-4	SS	24	24	[WASH #200:8.8%] WEATHERED LIMESTONE-GRANULAR, Gray, Saturated, Medium Dense			13 27 6 5
	S-5	SS	24	24				8 6 4 3
10					(SP) SAND, With Weathered Limestone, Gray, Saturated, Loose		-5	
	S-6	SS	18	18				3 3 3
15					WEATHERED LIMESTONE-GRANULAR, Gray, Saturated, Medium Dense		-10	
	S-7	SS	18	18				6 10 6
20					END OF BORING @ 20.00□		-15	
25							-20	
30								



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL.

▽ WL 4.8 WS☐ WD☒	BORING STARTED 04/25/19	CAVE IN DEPTH
▽ WL(SHW) ▼ WL(ACR)	BORING COMPLETED 04/25/19	HAMMER TYPE Auto
▽ WL	RIG Truck FOREMAN	DRILLING METHOD Mud Rotary

CLIENT	Job #:	BORING #	SHEET
Master Consulting Engineers, Inc.	25:3473	B-2	1 OF 1

PROJECT NAME	ARCHITECT-ENGINEER
Proposed Canopy Expansion	

SITE LOCATION

13975 Pembroke Road, Pembroke Pines, Broward, FL

NORTHING	EASTING	STATION
9433366.156	1859028.87	

CALIBRATED PENETROMETER TONS/FT^2

ROCK QUALITY DESIGNATION & RECOVERY
RQD% – — – REC% ———

PLASTIC LIMIT% | WATER CONTENT% | LIQUID LIMIT%

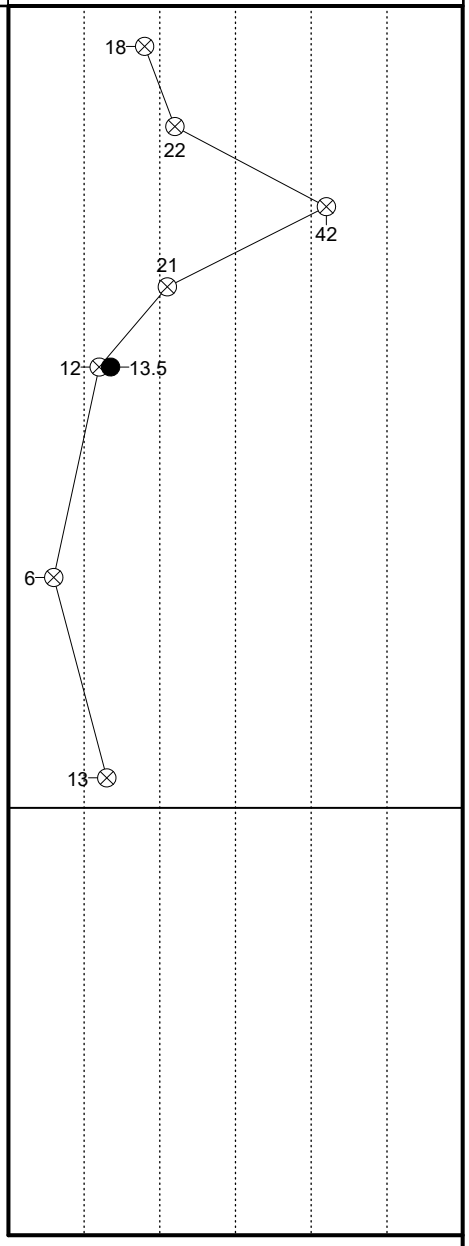
STANDARD PENETRATION BLOWS/FT

DESCRIPTION OF MATERIAL — ENGLISH UNITS

BOTTOM OF CASING | LOSS OF CIRCULATION (100%)

SURFACE ELEVATION 5.0

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	WATER LEVELS	ELEVATION (FT)	BLOWS/6"
0	S-1	SS	24	24	Asphalt Thickness [1.50"] Gravel Thickness [6.00"]		5	15 9 9 9
	S-2	SS	24	24	(SP) SAND, With Crushed Limestone and Asphalt Debris, Gray, Moist, Medium Dense to Dense			6 9 12 10
5	S-3	SS	24	24	WEATHERED LIMESTONE-GRANULAR, With Sand With Silt, Gray, Moist to Saturated, Loose to Dense		0	15 21 21 22
	S-4	SS	24	24	[WASH #200: 6.1%]			18 12 9 9
	S-5	SS	24	24				9 4 8 6
10					(SP) SAND, Trace Cemented Sand, Gray, Saturated, Loose		-5	
	S-6	SS	18	18				3 3 3
15					WEATHERED LIMESTONE-GRANULAR, With Cemented Sand, Gray, Saturated, Medium Dense		-10	
	S-7	SS	18	18				5 6 7
20					END OF BORING @ 20.00		-15	
25							-20	
30							-25	



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL.

WL 4.2 WS ☐ WD ☒	BORING STARTED 04/25/19	CAVE IN DEPTH
WL(SHW) WL(ACR)	BORING COMPLETED 04/25/19	HAMMER TYPE Auto
WL	RIG Truck FOREMAN	DRILLING METHOD Mud Rotary

APPENDIX C – Laboratory Summary

ECS Florida, LLC
West Palm Beach, FL
Laboratory Testing Summary

Project No.: 25: 3473 **Project Name:** Proposed Canopy Extension **Printed on:** May 10, 2019

Project Engineer: Lee J. Mitchell **Principal Engineer:** Jose N. Gómez, P.E., D.GE **Summary By:** Jeff Anosier

Boring Number	Sample Number	Depth (feet)	Soil Type [1.]	MC (%) [2.]	Wash No.200 Sieve (%) [3.]
B-1	S-2	2.0 - 4.0	SP-SM	8.1	8.8
B-9	S-4	6.0 - 8.0	WL	13.5	6.1

Notes: 1. ASTM D 2487, 2. ASTM D 2216, 3. ASTM D 1140
Definitions: MC: Moisture Content, Soil Types: USCS (Unified Soil Classification System)

ATTACHMENT J

CITY OF PEMBROKE PINES

WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION

GLE PROJECT NO. 19000-20771

100% CONSTRUCTION DOCUMENTS

MAY 28, 2019

CLIENT

CITY OF PEMBROKE PINES
8300 S. PALM DRIVE
PEMBROKE PINES, FL 33025
GIRALDO HERNANDEZ - PUBLIC SERVICES DEPARTMENT

ARCHITECT

GLE ASSOCIATES, INC.
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PH: (813) 241-8350
ALBERTO PORTELA, JR., AIA AR# 007729

STRUCTURAL ENGINEER

MASTER CONSULTING ENGINEERS, INC.
4101 RAVENSWOOD ROAD, SUITE 307
FT. LAUDERDALE, FL 33312
PH: (954) 210-7671
JOSE F. VAZQUEZ, P.E. #82831

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NASHVILLE, TN

GLE ASSOCIATES
AA 0002369 - CA 5483

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Contact Info: 813-241-8350
Date: 2019.05.28 16:57:40-04'00'

STATE OF FLORIDA
ALBERTO PORTELA, JR.
AR0007729
REGISTERED ARCHITECT

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CITY OF PEMBROKE PINES
WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION
13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE

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CHECKED BY:	SP
ISSUE:	

COVER SHEET
SHEET INDEX

G0.01

SHEET NUMBER

ATTACHMENT J

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13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

PRODUCT APPROVAL

CATEGORY	SUBCATEGORY	MANUFACTURER	DOCUMENTATION TYPE				EXP. DATE
			"A"	"B"		"C"	
			LAB NAME TEST NO.	STATE OF FLORIDA NO.	MIAMI-DADE APPROVAL NO.	P.E. OR R.A. NAME	
ROOFING (STRUCTURAL COMPONENT)	METAL ROOF STANDING SEAM	BERRIDGE MANUFACTURING COMPANY		FL 14210.4-R4		JAMES L. BUCKNER P.E. No. 31242	12/31/2021

PRODUCT APPROVAL GENERAL NOTES:

1. INCLUSION OF "APPROVED PRODUCTS" OR ASSOCIATED INFORMATION AND DOCUMENTATION ON THE PRODUCT APPROVAL DATA SCHEDULE, INSTALLATION DETAIL SHEETS OR BY REFERENCE IN THE CONSTRUCTION DOCUMENTS DOES NOT IMPLY THAT GLE ASSOCIATES OR ITS SUBCONSULTANTS HAVE EITHER PRODUCED, NOR TESTED OR CREATED THE INFORMATION CONTAINED HEREIN. CONSEQUENTLY, GLE ASSOCIATES AND ITS SUBCONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY INFORMATION GIVEN, RELATIVE TO "APPROVED PRODUCTS." THESE SHEETS ARE SUBMITTED FOR INFORMATION ONLY.
2. RESPONSIBILITY FOR ANY PRODUCT'S PERFORMANCE RELATIVE TO STRUCTURAL INTEGRITY DURING HURRICANES AND/OR NAMED STORMS BASED ON EVALUATIONS OF CODE COMPLIANCE CONDUCTED BY STATE APPROVED ENTITIES LIES SOLELY WITH THE MANUFACTURERS OF THE LISTED PRODUCTS.
3. INCLUSION OF A PRODUCT IN THIS SCHEDULE DOES NOT IMPLY OR PRESUME THAT THE PRODUCT LISTED WILL BE INSTALLED IN THIS PROJECT. ALTERNATE PRODUCTS COMPLYING WITH CODE REQUIREMENTS MAY BE UTILIZED UPON EVAULATION, ACCEPTANCE, AND APPROVAL BY THE BUILDING DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT INFORMATION AND DOCUMENTATION THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE ALTERNATE PRODUCT'S EVALUATION AND APPROVAL.
4. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT WRITTEN INFORMATION AND DOCUMENTATION, INCLUDING ALL APPROVED AGENCIES NUMBERS THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE PRODUCT'S EVALUATION AND APPROVAL. CONTRACTOR AND MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE ALTERNATE PRODUCTS MEET THE FLORIDA PRODUCT APPROVAL REQUIREMENTS.
5. REFER TO STRUCTURAL DRAWINGS FOR APPLICABLE WIND SPEED CLASSIFICATION OF PROJECT.
6. BASIS OF DESIGN: MANUFACTURERS LISTED AS BASIS OF DESIGN FOR SPECIFICATION AND NOA PRODUCT APPROVAL REFERENCE. PRODUCTS THAT MEET THE STANDARDS OF THE BASIS OF DESIGN ARE TO BE CONSIDERED AN APPROVED EQUAL.
7. DOCUMENTATION DEMONSTRATING A PRODUCT'S COMPLIANCE WITH THE CODE, AS EVALUATED THROUGH CODE ADOPTED METHODS, HAS BEEN PROVIDED IN THE ABOVE SCHEDULE UNDER THE FOLLOWING KEY LISTING:

KEY DOCUMENTATION

"A" A TEST REPORT FROM AN APPROVED LABORATORY
"B" A LISTING OR LABEL FORM AN APPROVED CERTIFICATION AGENCY
"C" AN EVALUATION REPORT FROM AN APPROVED EVALUATION ENTITY OR FLORIDA LICENSED PROFESSIONAL ENGINEER (P.E.) OR REGISTERED ARCHITECT (R.A.).

NO.	REVISIONS	DATE

JOB NUMBER: 19000-20771

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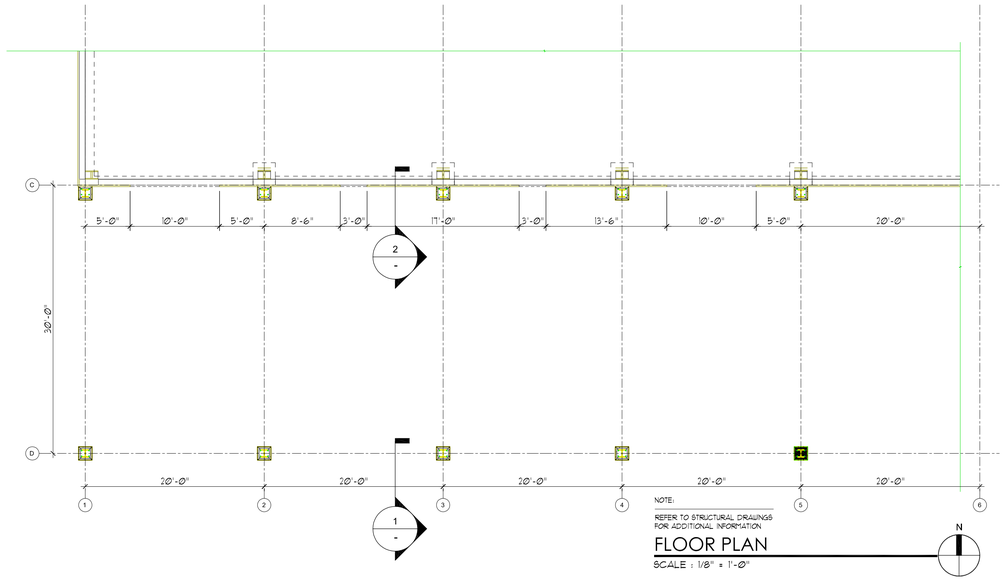
ISSUE:	

GENERAL NOTES

G0.02

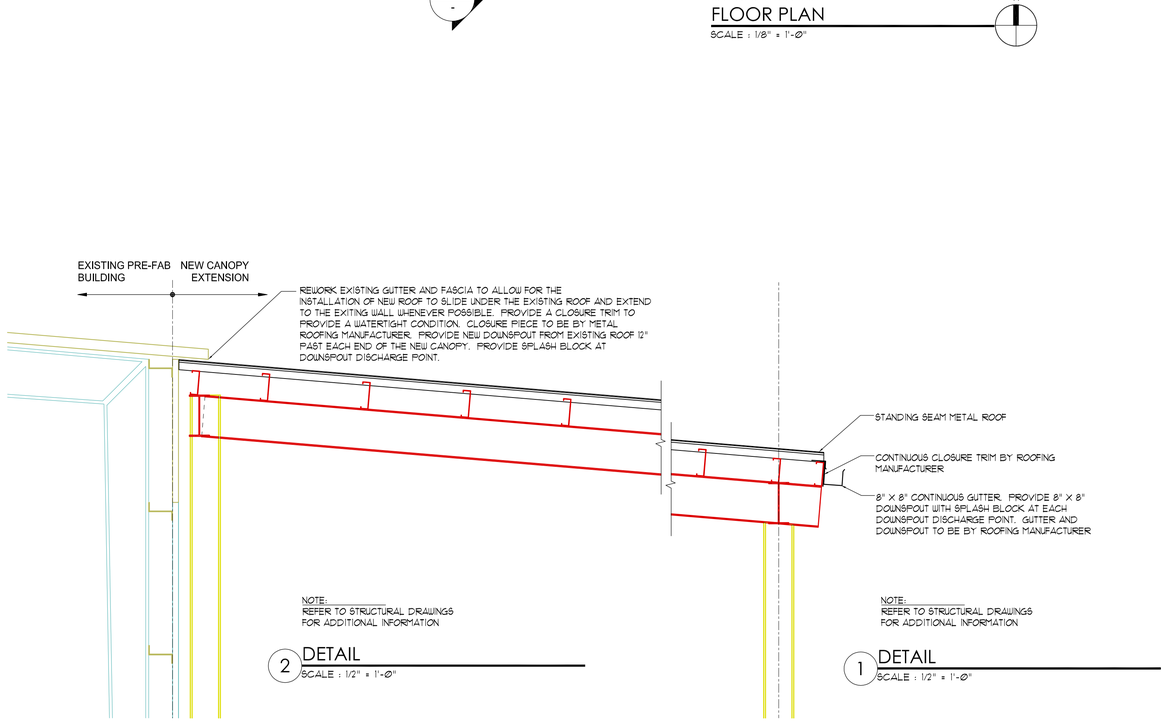
SHEET NUMBER



FLOOR PLAN

SCALE : 1/8" = 1'-Ø"

N

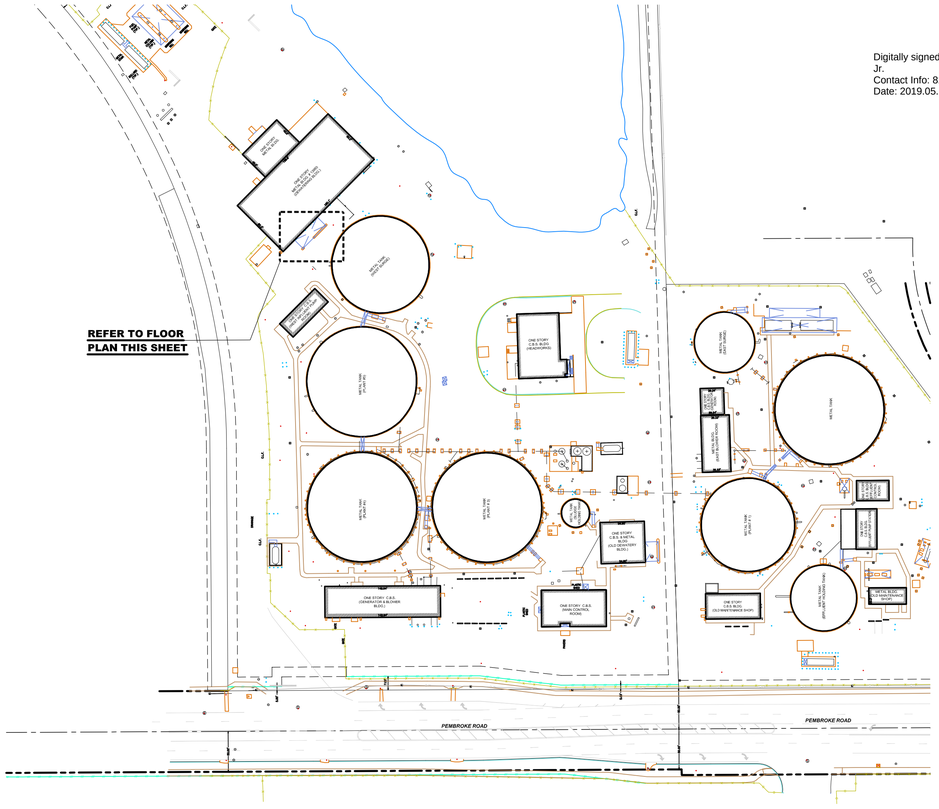


2 DETAIL

SCALE : 1/2" = 1'-Ø"

1 DETAIL

SCALE : 1/2" = 1'-Ø"



LEGAL DESCRIPTION

FOLIO ID: 5140 22 02 0010

PEMBROKE PINES PUBLIC SERVICES MAINTENANCE FACILITY 141-19 B TRACT "A"

FOLIO ID: 5140 14 02 0191

A PARCEL OF LAND BEING A PORTION OF TRACT "S" FLAMINGO WEST AS RECORDED IN PLAT BOOK 78 PAGE 36 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA SAID PARCEL MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF SAID TRACT "S";

THENCE ON A GRID BEARING OF 01°46'22"W (M) N 01°45'24"W (R) N ALONG THE WEST LINE OF SAID TRACT "S" A DISTANCE OF 500.00 FEET;

THENCE DEPARTING FROM SAID WEST LINE N 89°43'19"E (M) N 89°43'10"E (R) A DISTANCE OF 220.16' FEET (M), 220.00' (R);

THENCE S 36°52'06"E (M) S 36°52'15"E (R) A DISTANCE OF 323.43 FEET;

THENCE S 00°17'59"E (M) S 00°18'08"E (R) A DISTANCE OF 17.72 FEET TO A POINT ON A LINE 222.28 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID TRACT "S";

THENCE N 89°42'01"E (M) N 89°41'52"E (R) ALONG SAID PARALLEL LINE A DISTANCE OF 625.00 FEET;

THENCE S 00°17'59"E (M) S 00°18'08"E (R) A DISTANCE OF 222.28 FEET TO A POINT ON THE SAID SOUTH LINE OF SAID TRACT "S"

THENCE S 89°42'01"W (M) S 89°41'52"W (R) ALONG SAID SOUTH LINE A DISTANCE OF 1025.00 FEET TO THE POINT OF BEGINNING.

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STATE OF FLORIDA
ALBERTO PORTELA, JR.
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DRAWN BY:	AP
CHECKED BY:	SP
ISSUE:	

SITE PLAN
FLOOR PLAN
SECTIONS

A1.01

SHEET NUMBER

ATTACHMENT K

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:

   A. THE FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.
   B. ACI STANDARD 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
   C. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-10.
   D. ASCE 7-10 (WITH ERRATA DATED JANUARY11, 2011) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
   E. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100.

5. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
6. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
7. ROOFTOP EQUIPMENT ANCHORAGE & OUTDOOR RACK MOUNTED EQUIPMENT ANCHORAGE. ALL ROOF TOP EQUIPMENT CURBS, ROOF TOP MECHANICAL EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO OUTDOOR RACKS OR BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE MECHANICAL EQUIPMENT SUPPLIER. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT MANUFACTURER SHALL PROVIDE THE ATTACHMENT OF THE UNIT TO THE STRUCTURE AND SUBMIT TO THE ENGINEER LOADS, TIE DOWNS, AND CONNECTIONS OF ATTACHMENT. THE STRUCTURAL ENGINEER WILL MAKE PROVISIONS IN THE DESIGN OF THE PRIMARY STRUCTURAL FRAME TO ACCOMMODATE THE LOADS AND ATTACHMENTS SUBMITTED BY THE MANUFACTURER.

CONCRETE AND REINFORCING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED BELOW:

CONCRETE STRENGTH	MAX WATER CEMENT RATIO	TYPE AGGREGATE	LOCATION USED
4000 PSI	0.45	STONE	FOUNDATIONS

3. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE. PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706.
4. ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
5. UNLESS NOTED, ALL BARS MARKED CONTINUOUS SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS. SPLICE CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND SPLICE CONTINUOUS BOTTOM BARS AT SUPPORTS.
6. CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS.
7. UNLESS NOTED, TEMPERATURE REINFORCING (ASTM A-615-60) TO BE 0.0018 X CONCRETE AREA.
8. PROVIDE #4 @ 12" O.C., WITH STANDARD HOOK, TOP BARS IN ALL SLABS AT DISCONTINUOUS ENDS UNLESS OTHERWISE NOTED ON PLANS. LENGTH OF BARS 1/4 OF SPAN, MINIMUM 3'-0". UNLESS OTHERWISE NOTED PROVIDE #4 @ 12" O.C IN ALL CANTILEVERS. BAR LENGTH SHALL BE CANTILEVER SPAN PLUS 10'-0" PLUS STANDARD HOOK AT CANTILEVER ENDS.
9. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE. SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
10. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
11. FOR CHAMFER OF EXPOSED CORNERS OF BEAMS AND/OR COLUMNS, SEE ARCHITECTURAL DRAWINGS.
12. CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC, REQUIRED FOR VARIOUS TRADES.
13. CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
14. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLASHING REGLETS, FASCIA DETAILS, ETC.
15. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM. ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
16. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
17. NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
18. WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
19. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:

    A. FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
    B. FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.

20. FLY ASH - ASTMC618, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
21. ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.

FOUNDATION NOTES:

1. SITE SOIL FOR THIS PROJECT HAS BEEN INVESTIGATED BY THE FIRM OF ECS FLORIDA, LLC. AND FOUND, AS PRESENTED IN THEIR REPORT DATED MAY 10, 2019, SUITABLE TO SUPPORT 3.0 KSF SPREAD FOOTINGS. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE STATED CRITERIA.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION AS CONTAINED IN THEIR REPORT STATED IN ITEM 1.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT, AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. ELEVATOR PIT DIMENSIONS = VERIFY WITH ELEVATOR MANUFACTURERS APPROVED SHOP DRAWINGS.
8. WATER PROOFING MATERIALS SHALL BE PROVIDED ON ALL SIDES AND BOTTOM OF ELEVATOR CORE AND ESCALATOR PIT.
9. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. SPECIAL INSPECTIONS (ARE/ ARE NOT) REQUIRED PER THE PROVISIONS SET FORTH BELOW. CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRODUCT INSTALLATION TRAINING ON INITIAL ANCHORS.
2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING
   THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
3. EXPANSION ANCHORS SHALL BE STUD TYPE WITH A SINGLE PIECE OF THREE SECTION WEDGE AND ZINC PLATED IN ACCORDANCE WITH ASTM B633. THE ANCHORS SHALL MEET FEDERAL SPECIFCATION FF-S-325, GROUP II, TYPE 4, CLASS I FOR CONCRETE EXPANSION ANCHORS. ANCHORS SHALL BE HILTI KWIK BOLT 3 AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH HILTI CARBIDE TIPPED DRILL BITS OR MATCHED TOLERANCE DIAMOND CORE BITS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
4. INJECTED ADHESIVE ANCHORS SHALL BE USED FOR INSTALLATION OF THREADED RODS. ADHESIVE SHALL BE FURNISHED IN A SIDE BY SIDE REFILL PACK WHICH KEEP COMPONENT A AND B SEPARATE. INJECTION
   ADHESIVE SHALL BE HILTI HIT HY 200 AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHOR RODS MEET ASTM F1554 (36 KSI). NUTS AND WASHERS SHALL BE FURNISHED TO MEET THE REQUIREMENTS OF AN ASTM F1554 (36 KSI) STEEL ROD.

SHOP DRAWINGS:

1. NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
2. ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
3. DETAILER SHALL CHECK ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
4. ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. DISTRIBUTION AS PER ARCHITECT INSTRUCTIONS.
5. PROVIDE SUFFICIENT SPACE ON SHOP DRAWINGS NEAR TITLE BOX (ABOUT 40 SQUARE INCHES) FOR STAMPS AND ENGINEERS COMMENTS.
6. THE SHOP DRAWINGS SHALL BEAR INITIALS OF DETAILER'S CHECKER AND CONTRACTOR PRIOR TO SUBMISSION.
7. COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS. BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
8. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.
9. SHOP DRAWINGS NOT COMPLYING WITH ALL THE ABOVE ITEMS SHALL BE RETURNED FOR CORRECTIONS WITHOUT PROCESSING.
10. RESUBMITTED SHOP DRAWINGS SHALL HAVE THE FOLLOWING CHANGES INCORPORATED: FIRST RESUBMISSION TO HAVE LETTER "A" ADDED TO DRAWING

    A. NUMBER AND ANY CHANGES MARKED ON THE DRAWING MARKED 1 AT EACH ITEM CHANGED. ALL ITEMS TO BE NOTED IN REVISION BOX.
    B. SUBSEQUENT RESUBMISSION SHALL BEAR CHANGES "B" AND 2 AND 3 ETC. AS IN 11A.

11. CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
12. DETAILER SHALL USE THE SAME STRUCTURAL ELEMENTS NUMBERS IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
13. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOULD BE SUBMITTED TO MCE WITH A MINIMUM TIME TO BE REVIEWED OF 10 WORKING DAYS. IN CASE OF A LARGE SUBMITTAL OR MORE THAN ONE SUBMITTAL FOR THE SAME PROJECT, AN ADDITIONAL WORKING DAY IS REQUIRED FOR EVERY 5 DRAWINGS/SHEETS OVER 30 DRAWINGS/SHEETS. THE TIME INDICATED ABOVE IS FOR MCE REVIEW ONLY. CONTRACTOR MUST INCLUDE ENOUGH TIME FOR DELIVERY, ARCHITECTURAL REVIEW, AND OWNERS REVIEW AND WORK THIS TIME IN THE PROJECT SCHEDULE AS NEEDED.
14. THERE SHALL BE NO DEVIATION FROM THESE CONSTRUCTION DOCUMENTS. IF ANY CHANGES ARE PROPOSED BY THE CONTRACTOR OR THE PROVIDER OF THE SHOP DRAWINGS, THEY SHOULD BE CLEARLY INDICATED, SIGNED, AND SEALED DRAWINGS AND CALCULATIONS BY A FLORIDA PROFESSIONAL ENGINEER MUST BE PROVIDED. ANY CHANGES WITHOUT PROPER DOCUMENTATION INDICATED ABOVE WILL RESULT IN SOME REVISIONS BY THE ENGINEER OF RECORD AND/OR ARCHITECT. THE COST FOR THESE REVISIONS INCLUDING ENGINEER AND ARCHITECTURAL FEES SHALL BE PAID BY THE CONTRACTOR.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL CONFORM TO:

WIDE FLANGE (WF)	ASTM A992 (50 KSI)
SHAPES (L,T,C,PL)	ASTM A36
STRUCTURAL TUBE (HSS)	ASTM A500 (46 KSI)
STEEL PIPE (HSS)	ASTM A500 (42 KSI)
ANCHOR BOLTS	ASTM F1554 (36 KSI) U.N.O. IN PLANS, OR SECTIONS.
FRAMING BOLTS	ASTM A325 OR A490
SHEAR STUDS	ASTM A108
WELDING ELECTRODES	E70XX

3. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
4. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
5. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRESS BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
6. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS. SLIP-CRITICAL (FRICTION) TYPE EXCEPT WHERE SLOTTED HOLES ARE SPECIFIED OR WHERE MOVEMENT OF THE CONNECTED MEMBERS IS EXPECTED. IN THESE CASES PROVIDE OVERSIZED WASHER, HAND TIGHTEN BOLTS, AND TACK WELD WASHER TO NUT TO VERIFY ASSEMBLY IS HELD TOGETHER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
8. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE HOT DIPPED GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR HALF THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" AT THE BOTTOM OF EACH PAGE IN THE "BEAM PROPERTIES" OF THE AISC 360-10" MANUAL OF STEEL CONSTRUCTION. "MINIMUM CONNECTION SHALL CONSIST OF TWO 3/4"Ø A325 BOLTS. REACTIONS SHOWN ARE BASED ON UNFACTORED LOADS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. DESIGN BASE PLATE ANCHOR BOLTS FOR LATERAL MEMBERS USING FORCES INDICATED IN DRAWINGS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
17. WHEN STEEL MEMBERS ARE WELDED TO EMBED PLATES IN CONCRETE, WELDING PROCESS SHOULD BE PERFORMED IN SUCH WAY THAT EMBED PLATE DOES NOT OVERHEAT AND EXPAND. SUCH EXPANSION WILL CRACK THE CONCRETE SURROUNDING THE EMBED PLATE AND MAY WEAKEN THE STRUCTURAL CAPACITY OF THE CONNECTION. WE RECOMMEND TO PROVIDE SEVERAL SINGLE PASSES TO BUILT UP THE WELD SIZE REQUIRE WITH COOLING OFF PERIODS TO AVOID THE EMBED PLATE EXPANSION. UNDER NO CIRCUMSTANCES PROVIDE MORE THAN 6" OF 1/4" WELD WITHOUT ALLOWING A COOLING OFF PERIOD.
18. EXPOSED ENDS OF STRUCTURAL TUBES OR PIPES SHALL BE CAPPED WITH A MINIMUM 1/4" PLATE U.N.O.

STEEL ROOF DECK:

1. STEEL ROOF DECK SHALL BE A MINIMUM OF 1-1/2" - 20 GAUGE WIDE RIB FOR SPANS UP TO 6'-0" OR 3" TYPE N - 20 GAUGE FOR SPANS UP TO 12'-0" . THE SIZE, TYPE AND GAUGE INDICATED ABOVE SHOULD BE USED UNLESS A DIFFERENT ONE IS INDICATED IN THE ROOF FRAMING NOTES OF THE ROOF PLAN DRAWING.
2. ALL STEEL ROOF DECK SHALL BE GALVANIZED G90 AS PER ASTM SPECIFICATIONS.
3. ALL STEEL ROOF DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.
4. ALL STEEL ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (I.E. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION.)
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS). PROVIDE FASTENER LAYOUT AS PER TYPICAL DETAIL 5-305.
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB.
7. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAUGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS.
8. ALL MECHANICAL WORK WEIGHING MORE THAN 5 PSF OR 50 LBS CONCENTRATED SHALL BE HUNG FROM STEEL BEAMS ONLY. FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS. SEE STRUCTURAL STEEL NOTE 12 (OF STRUCTURAL STEEL NOTES) FOR ADDITIONAL STEEL REQUIRED BY MECHANICAL/ELECTRICAL TRADES TO SUPPORT THEIR EQUIPMENT.
9. METAL DECK CONTRACTOR TO PROVIDE 18 GAUGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
10. STEEL ROOF DECK SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR ELONGATED WELDS OF EQUAL STRENGTH SPACED PER SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK UNIT.
11. CUT OUT METAL DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.
12. DIRECTION OF METAL DECK SHOWN THUS ON PLAN.

Sheet List	
Sheet Number	Sheet Name
S101	GENERAL STRUCTURAL NOTES
S102	WIND DESIGN DATA AND LOAD SCHEDULE
S200	DEMOLITION PLAN
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLAN
S301	TYPICAL DETAILS
S401	SECTIONS AND DETAILS
S501	WALL ELEVATIONS

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, SIXTH EDITION 2017, ACI 318-14 AND LOCAL CODES AS APPLICABLE

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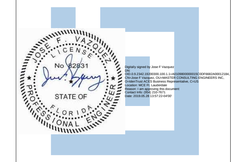

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WASTE WATER PLANT BIOSOLIDS
BUILDING OVERHANG EXTENSION
13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

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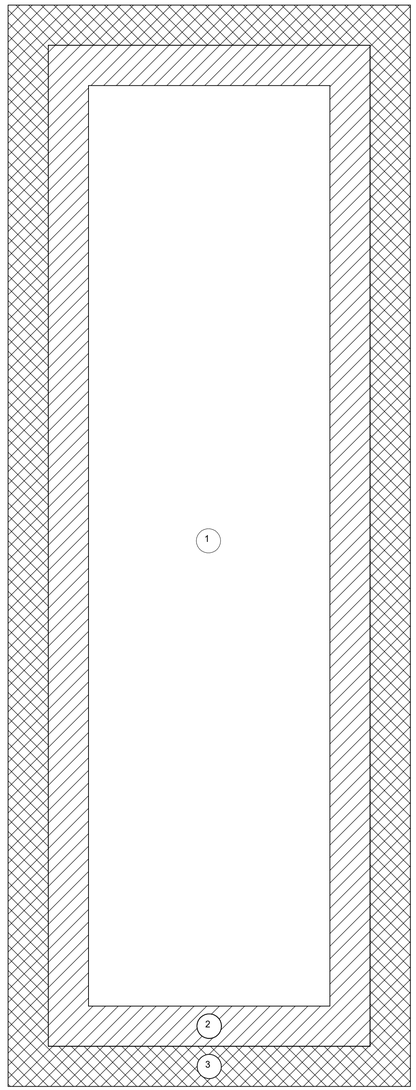
GENERAL STRUCTURAL NOTES

S101

SHEET NUMBER



3 S102 WIND DESIGN ROOF PLAN
SCALE: 3/16" = 1'-0"

LOAD SCHEDULE:

ROOF:

DEAD LOAD		
STANDING SEAM ROOF	=	2 PSF
STEEL FRAMING	=	3 PSF
TOTAL DEAD LOAD		5 PSF
LIVE LOAD		
ROOF	=	20 PSF
ROOF TOTAL LOAD		25 PSF

WIND DESIGN DATA:

CODE:
ASCE 7-10 FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.

BASIC WIND SPEED	170 mph (Vult) 132 mph (Vasd)
CATEGORY (RISK)	II
EXPOSURE	C
BUILDING HEIGHT	18'-0"
ENCLOSURE CLASSIFICATION	± 0.00

* GLAZED OPENINGS IN RISK CATEGORY II, III, IV LOCATED IN HURRICANE PRONE REGIONS SHALL BE PROTECTED IN ACCORDANCE WITH FBC 2017 SEC. 1609.1.2

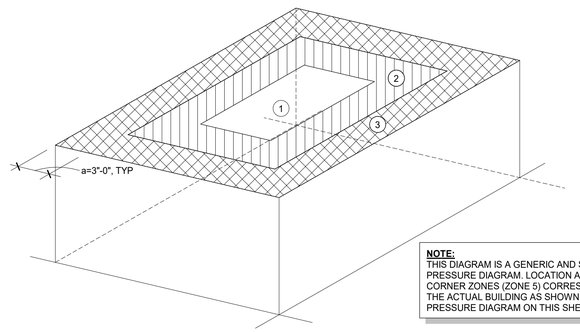
COMPONENTS AND CLADDING NET UPLIFT SCHEDULE (Ult)

PATTERN	ZONE	MAIN ROOF		
		EFFECTIVE WIND AREA		
		<= a^2	< a^2, <= 4a^2	> 4a^2
	1	+69 PSF/-61 PSF	+68 PSF/-61 PSF	+68 PSF-61 PSF
	2	+103 PSF/-92 PSF	+103 PSF/-92 PSF	+68 PSF/-61 PSF
	3	+137 PSF/-182 PSF	+103 PSF/-92 PSF	+68 PSF/-61 PSF

NOTE:

1. ALL EXTERIOR DOORS & WINDOW ASSEMBLIES SHALL SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (SIXTH EDITION 2017, SECTION 1709.5). ALL CONNECTIONS TO BUILDING STRUCTURE SHALL HAVE THE CAPACITY TO WITHSTAND THE PRESSURES INDICATED IN THIS SCHEDULE.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. ALL WIND PRESSURE VALUES INDICATED ARE IN POUNDS PER SQUARE FOOT (PSF). MULTIPLY ULTIMATE WIND PRESSURE BY 0.60 FOR ASD PRESSURE.

1 S102 WIND DESIGN & LOAD SCHEDULE
SCALE: 1/8" = 1'-0"



NOTE:
THIS DIAGRAM IS A GENERIC AND SIMPLIFIED WALL PRESSURE DIAGRAM. LOCATION AND WIDTH OF CORNER ZONES (ZONE 5) CORRESPOND TO ZONE 3 OF THE ACTUAL BUILDING AS SHOWN IN THE ROOF PRESSURE DIAGRAM ON THIS SHEET.

2 S102 WALL PRESSURES DIAGRAM
SCALE: 1/8" = 1'-0"

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WIND DESIGN DATA AND LOAD SCHEDULE

S102

SHEET NUMBER

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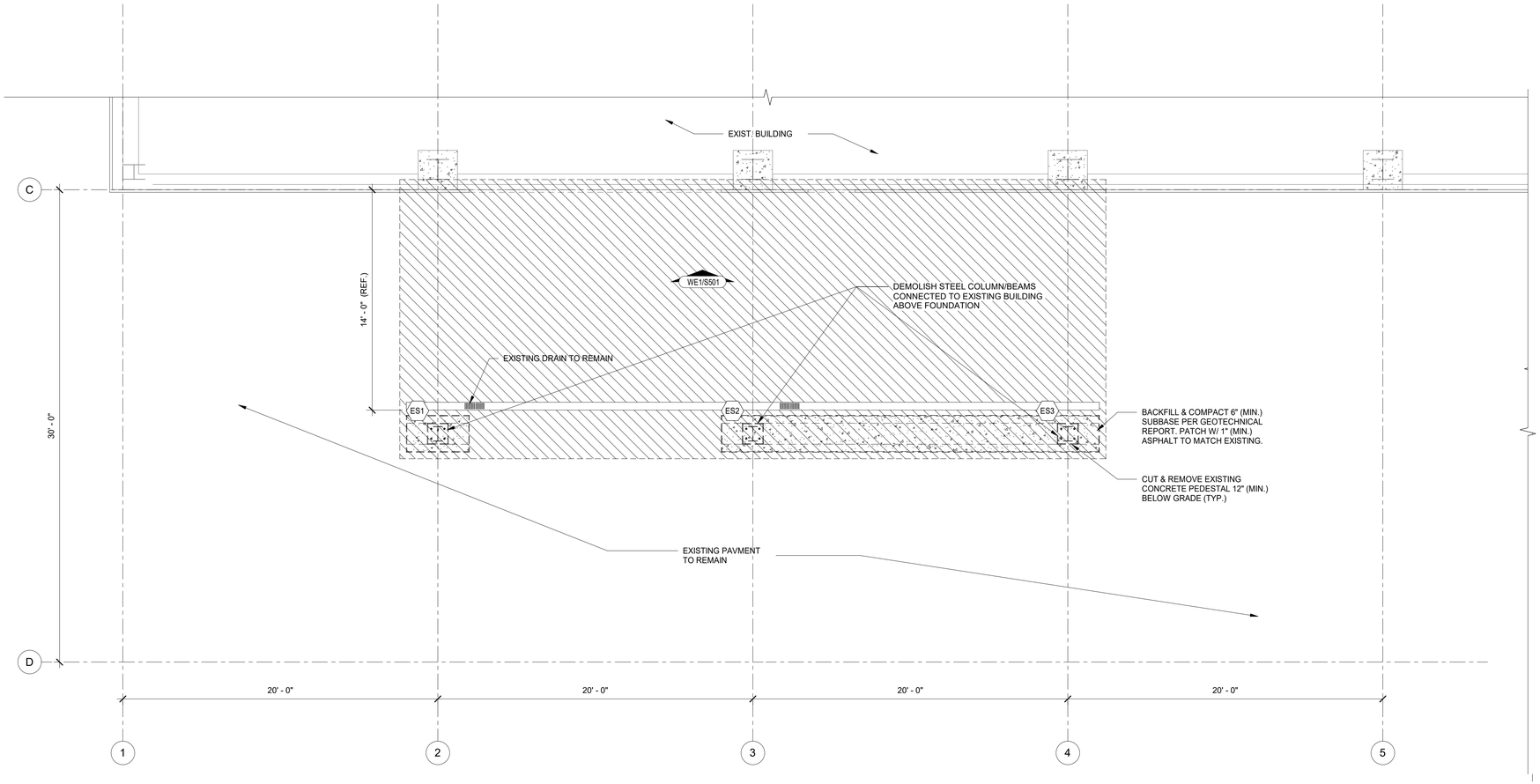

1 / S200 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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DEMOLITION PLAN

S200

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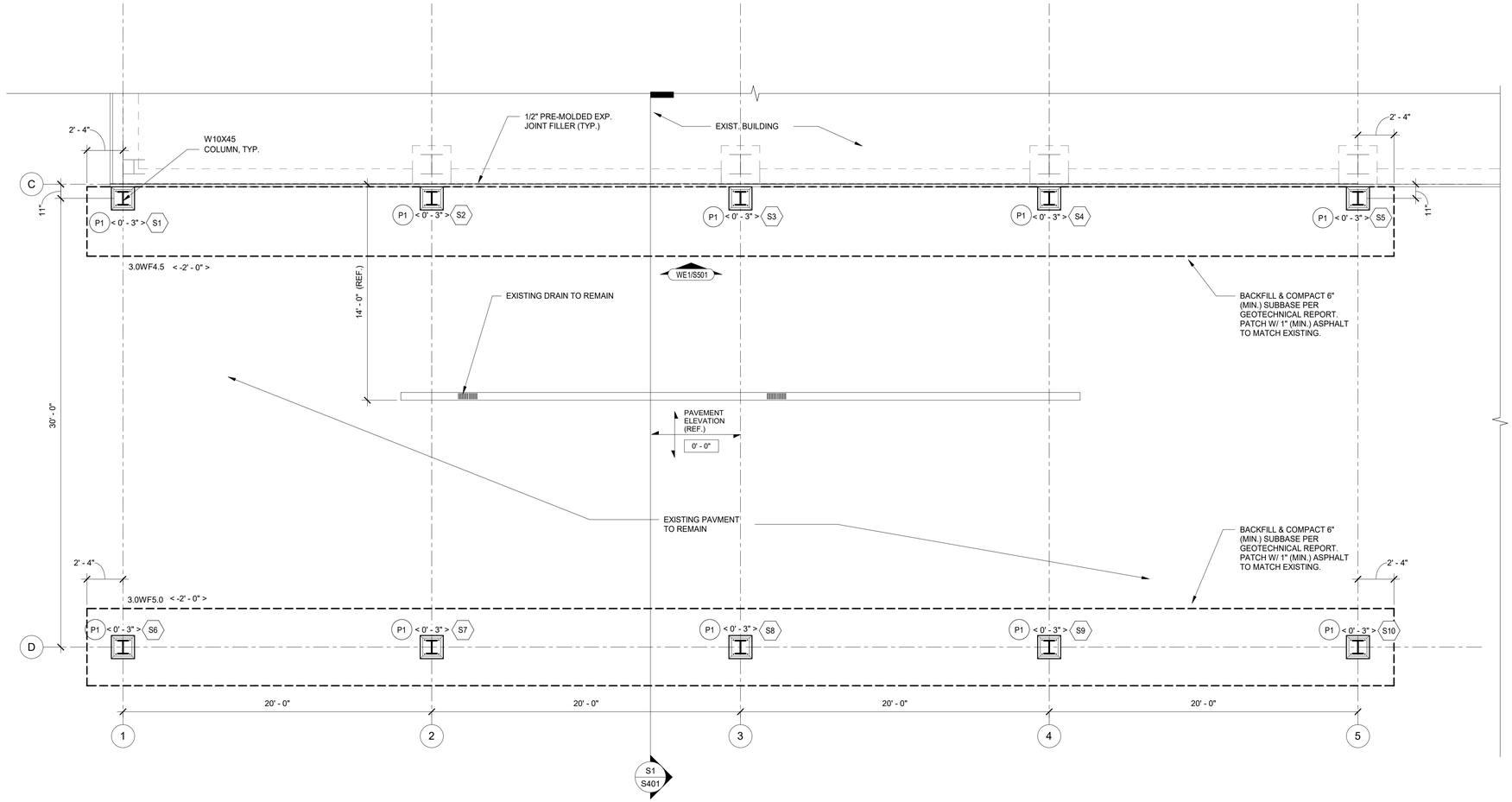

1 S201 FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

WALL FOOTING SCHEDULE

MARK*	WIDTH	DEPTH	TOP & BOTT. REINF. CONT.	TOP & BOTT. REINF. TRANSV.	REMARKS
3.0WF4.5	4' - 6"	2' - 0"	(5)-#6 BOT., (5)-#6 TOP	#6 @ 10" O.C.	
3.0WF5.0	5' - 0"	2' - 0"	(6)-#6 BOT., (6)#6 TOP	#6 @ 10" O.C	

FOUNDATION PLAN NOTES:

1. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S301
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
3. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
4. ( ) DENOTES TOP OF FOOTING ELEVATION.
5. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
6. COLUMN DESIGNATION SHOWN THUS ⬡ ON PLAN.
   ALL COLUMN SIZES SHALL BE W10X45.

   T/COLUMN ELEVATION
   C1 — COLUMN TYPE
   CARRIED COLUMN

7. WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.
8. PIER P1 SHALL BE 18" X 18" REINFORCED WITH (8)-#5 VERTICAL AND #3@6"O.C. TIES, PROVIDE 4 EXTRA TIES @ 2" AT TOP OF THE PIER.
9. < > DENOTES TOP OF PIER ELEVATION.

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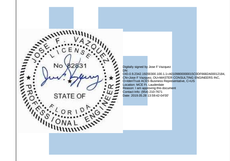

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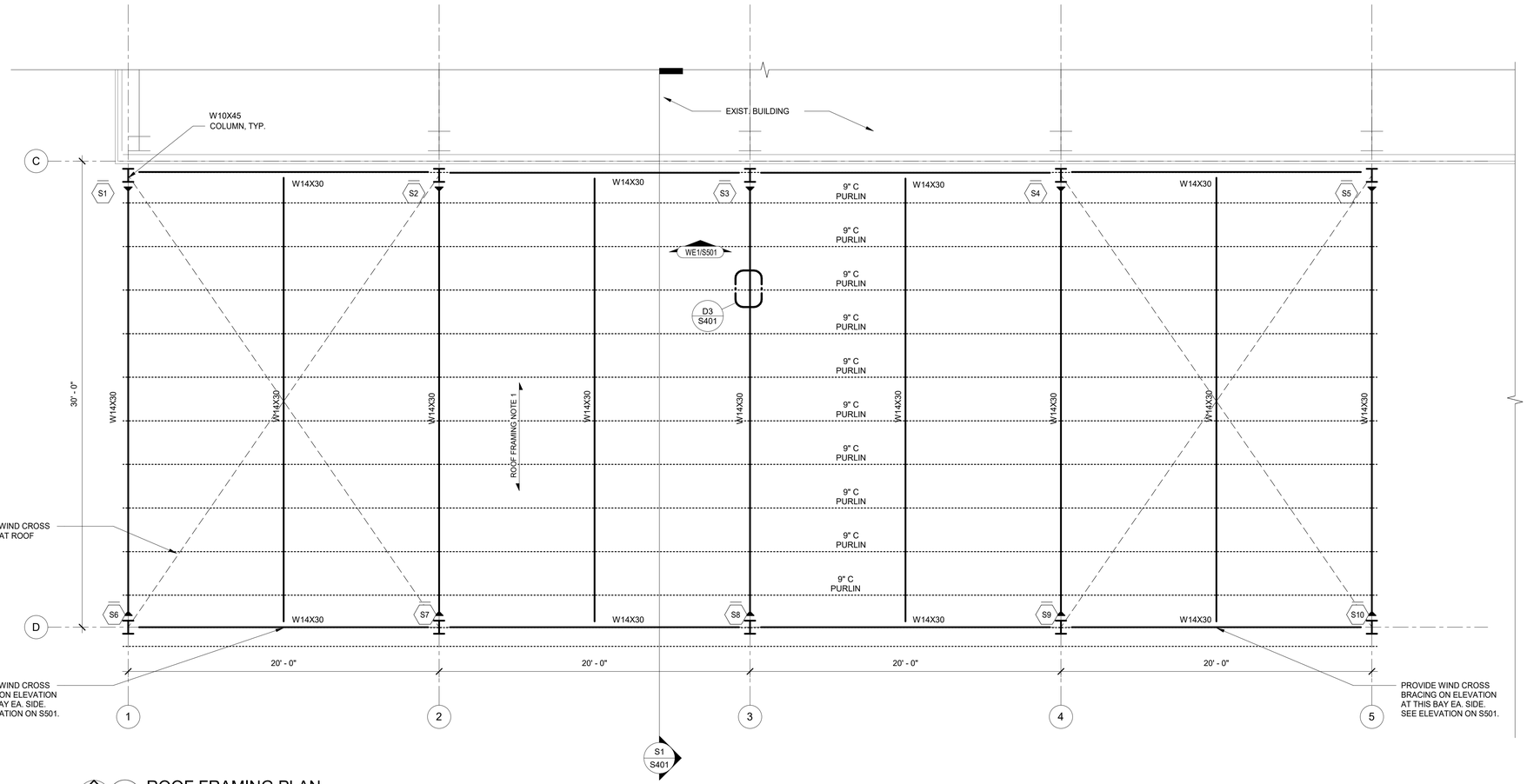
FOUNDATION PLAN

S201

SHEET NUMBER

ATTACHMENT O



1 S202 ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF FRAMING SHALL BE "ZEE-LOCK" STANDING SEAM ROOF PANEL SPANNING OVER C-PURLINS SPACED @ 3'-0" O.C. (MAX.). SEE SPECIFICATIONS FOR STANDING SEAM ROOF FASTENING AND DETAILS.
2. DIRECTION OF METAL DECK SPAN SHOWN THUS ←——→ ON PLAN.
3. FOR ROOF DRAIN LOCATIONS AND SIZE SEE ARCHITECTURAL DRAWINGS.
4. FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWING S301 & S101.
5. ( ) DENOTES UNDERSIDE OF METAL DECK (U.M.D.) ELEVATION.
6. FOR PLAN DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
7. PROVIDE MOMENT CONNECTION AT BEAMS SHOWN THUS ◄|► ON PLAN.
8. COLUMN DESIGNATIONS SHOWN THUS ⬡ ON PLAN. ALL COLUMNS SIZES SHALL BE W10X45.
9. ⬡ DENOTES COLUMN STOP AT THIS LEVEL.
10. FOR LOAD SCHEDULE & WIND DESIGN DATA, SEE DRAWING S102.

ROOF FRAMING NOTES

SCALE: 1/8" = 1'-0"

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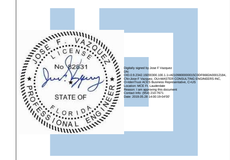

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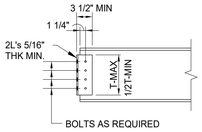
ROOF
FRAMING PLAN

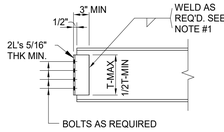
S202

SHEET NUMBER

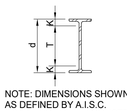
ATTACHMENT P



SHOP BOLTED CONN.



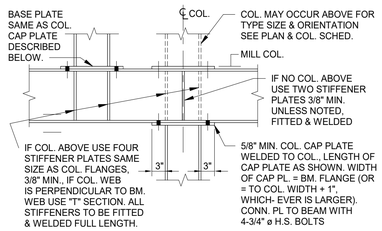
SHOP WELDED CONN.



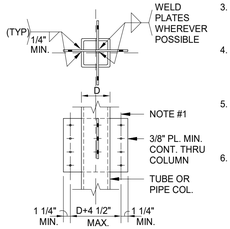
NOTE: DIMENSIONS SHOWN AS DEFINED BY A.I.S.C. MANUAL OF STEEL CONSTR.

NOTES:

1. ALL CONNECTIONS SHALL BE DESIGNED FOR 1/2 MAX. UNIFORM LOAD CARRYING CAPACITY UNLESS GREATER REACTION IS SHOWN ON PLAN. IN ANY CASE, CONNECTIONS. SHALL NOT BE LESS THAN STD. A.I.S.C. CONNECTION FOR THE PARTICULAR BEAM. DEPTH.
2. DETAILER SHALL SUBMIT FOR APPROVAL, STANDARD CONNECTION DETAILS CONFORMING TO ABOVE DETAILS W/ERECTION DRAWING. SUBMISSION.
3. MILL COLUMNS. TO BEAR OR PROVIDE FULL PENETRATION WELD AT BASE PL'S & CAP PL'S AT COLUMNS CARRYING BEAMS.
4. AT CONNECTION OF HUNG BEAM. TO CANTILEVERED BEAMS. PROVIDE STANDARD 2 L CONNECTION AS PER NOTE 1 FOR LOAD CAPACITY OF HUNG BEAM.
5. WHERE BEAMS FRAME TO FITTED STIFFENERS AT COLUMNS PROVIDE SHEAR PLATE CONNECTION W/ STRENGTH CAPACITY AS PER NOTE 1.
6. ALL BOLTS TO BE MIN. 3/4"Ø. A-325 H.S. BOLTS FRICTION-TYPE UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70 XX.



BEAM OVER COLUMN AND COLUMN OVER BEAM



FRAMED CONNECTION AT TUBE/PIPE COLUMN

5-001

f'c = 4000 PSI, NORMAL WEIGHT

BAR SIZE	LAP CLASS	TENSION LAP SPLICES: LAP LENGTH PER SPACING AND COVER CASE — CASE 1 TOP BARS	CASE 1 OTHER BARS	CASE 2 TOP BARS	CASE 2 OTHER BARS	COMPRESSION LAP SPLICES
#3	A	19	15	28	22	12
	B	24	19	36	28	
#4	A	25	19	37	29	15
	B	32	25	48	37	
#5	A	31	24	47	36	19
	B	40	31	60	47	
#6	A	37	29	56	43	23
	B	48	37	72	56	
#7	A	54	42	81	63	26
	B	70	54	106	81	
#8	A	62	48	93	71	30
	B	80	62	121	93	
#9	A	70	54	105	81	34
	B	91	70	136	105	
#10	A	79	61	118	91	38
	B	102	79	153	118	
#11	A	87	67	131	101	42
	B	113	87	170	131	

NOTES:

CASE 1

BEAMS AND COLUMNS:
CONCRETE COVER >/= TO BAR DIAMETER, C-C BAR SPACING >/= TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS:
CONCRETE COVER >/= TO THE BAR DIAMETER AND C-C BAR SPACING >/= TO 3X BAR DIAMETER.

CASE 2

BEAMS AND COLUMNS:
CONCRETE COVER < BAR DIAMETER AND C-C BAR SPACING < 2X BAR DIAMETER.

OTHER MEMBERS:
CONCRETE COVER < BAR DIAMETER OR C-C BAR SPACING < 3X BAR DIAMETER.

* LAP CLASS "B" IS TO BE USED UNLESS OTHERWISE SPECIFIED IN THESE CONTRACT DOCUMENTS.

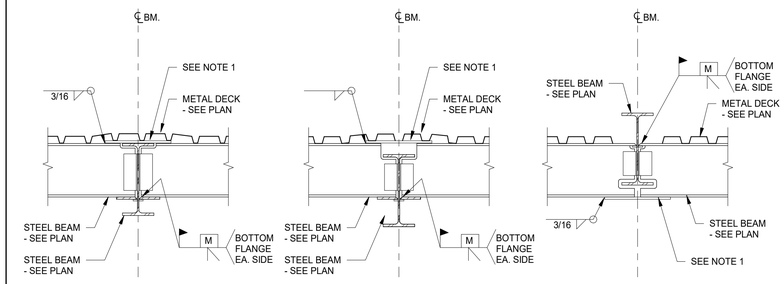
TENSION AND COMPRESSION LAP SPLICES WITH F'c = 4000 PSI

3-066

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS THE GREATER.		
SLABS (LT.WT. CONC. OR STONE CONC.)		1"
GIRDERS AND BEAMS (TO STIRRUPS)		1 1/2"
JOISTS (STONE OR LT.WT.) BOTTOM BARS		1 1/4"
TIED COLUMNS AND PIERS		
SURFACE EXPOSED TO EARTH AND WEATHER	(TO TIES)	2"
OTHER SURFACES	(TO TIES)	1 1/2"
FOUNDATION ELEMENTS		
FORMED SURFACES		2"
SURFACES PLACED AGAINST EARTH		3"
WALLS		
SURFACES EXPOSED TO EARTH		2"
SURFACES EXPOSED TO WEATHER		1 1/2"
OTHER SURFACES		1"

TYPICAL CONCRETE COVER FOR REINFORCING BARS

3-064

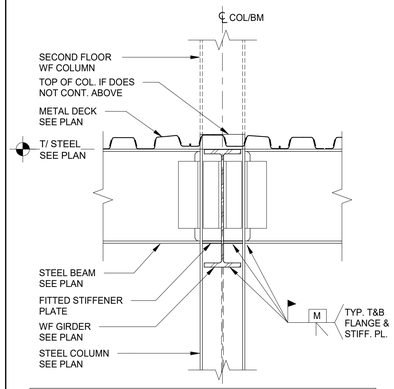


NOTE 1: STEEL PLATE SIZE AND THICKNESS AS NEEDED TO DEVELOP FULL MOMENT CAPACITY TRANSFER THRU CONNECTION

NOTE 2: METAL DECK SHOWN IS FOR SCHEMATIC PURPOSES ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SYSTEM.

TYPICAL MOMENT CONNECTION AT BEAMS

5-009



NOTE: METAL DECK SHOWN IS FOR SCHEMATIC PURPOSES ONLY. REFER TO ARCHITECTURAL DRAWING FOR ROOF SYSTEM.

TYPICAL MOMENT CONNECTION AT COLUMN

5-008

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THIS DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN ORDER TO RECEIVE A CLARIFICATION BEFORE PROCEEDING TO WORK. DIMENSIONS, SIZES AND REINFORCEMENT OF STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) IN PLANS.

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, SIXTH EDITION 2017, ACI 318-14 AND LOCAL CODES AS APPLICABLE

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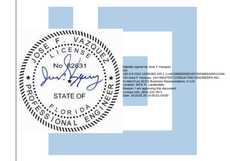
CA: 8426 PROJ NO. 3070-030



JOSE F.VAZQUEZ, P.E.
FL. LIC. No. 82831

CITY OF PEMBROKE PINES

WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION

13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE

JOB NUMBER:
3070-030-31

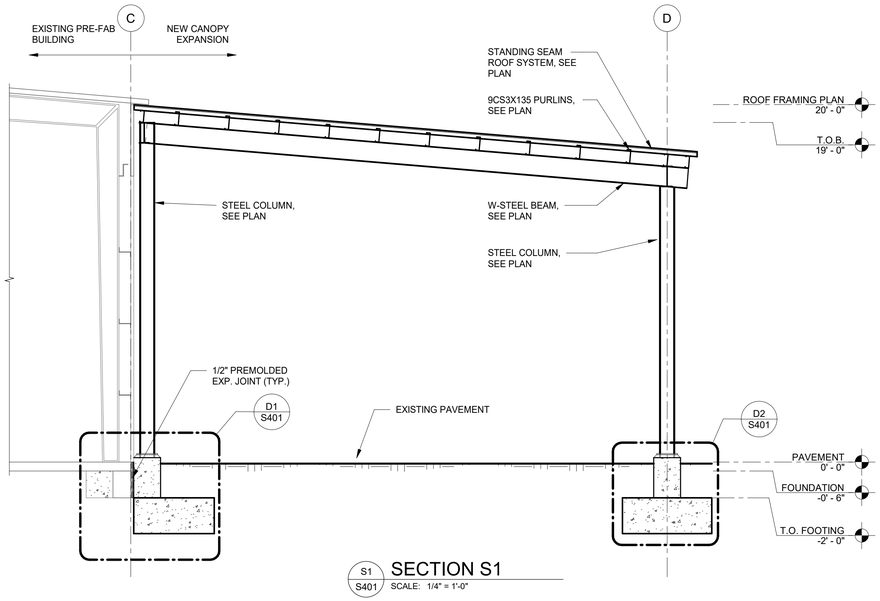
ISSUE DATE:	Issue Date
DRAWN BY:	AV & LG
CHECKED BY:	JV
ISSUE:	

TYPICAL DETAILS

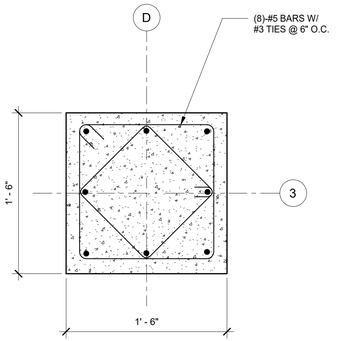
S301

SHEET NUMBER

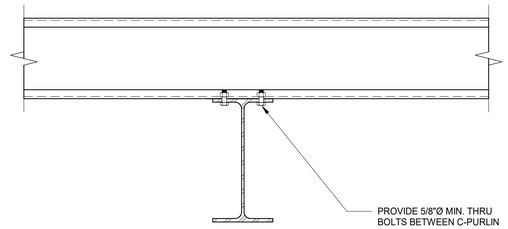
ATTACHMENT R



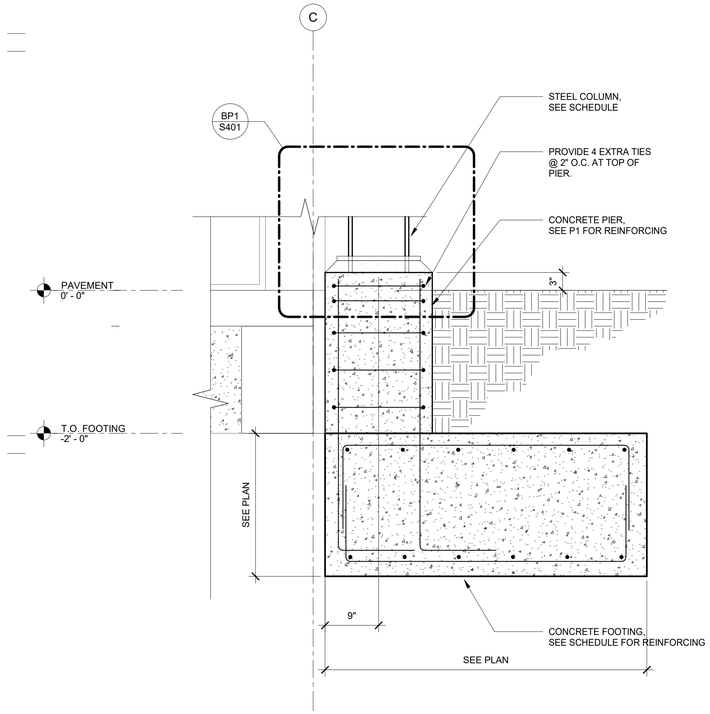
S1 S401 **SECTION S1**
SCALE: 1/4" = 1'-0"



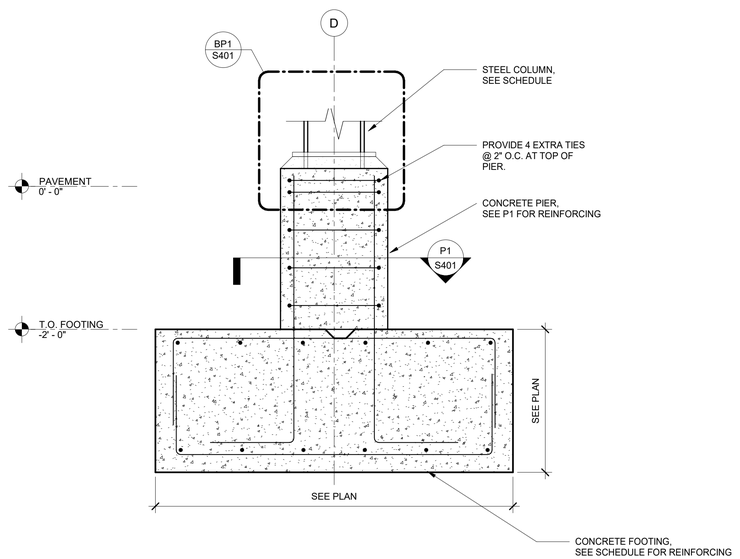
P1 S401 **SECTION - P1**
SCALE: 1 1/2" = 1'-0"



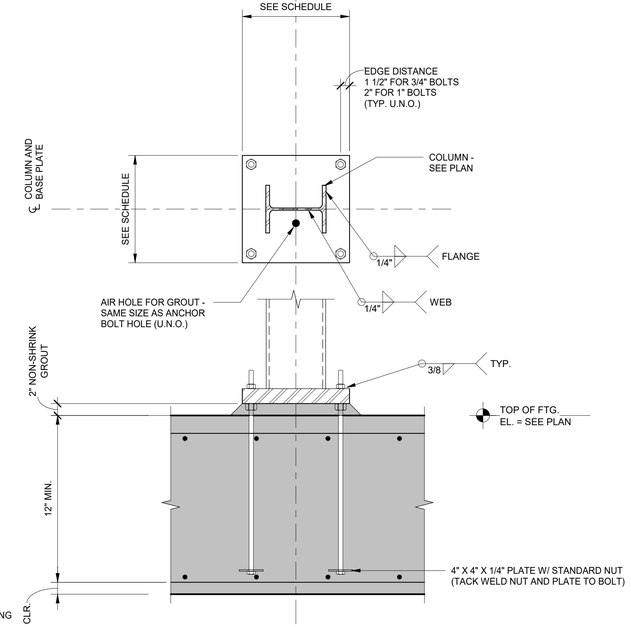
D3 S401 **C-PURLIN CONNECTION DETAIL - D3**
SCALE: 1 1/2" = 1'-0"



D1 S401 **DETAIL - D1**
SCALE: 1" = 1'-0"



D2 S401 **DETAIL - D2**
SCALE: 1" = 1'-0"



BP1 S401 **BASE PLATE - BP1**
SCALE: 1" = 1'-0"

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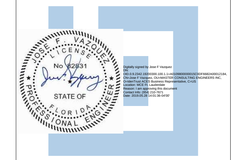


JOSE F.VAZQUEZ, P.E.
FL. LIC. No. 82831

CITY OF PEMBROKE PINES

WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION

13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE

JOB NUMBER:
3070-030-31

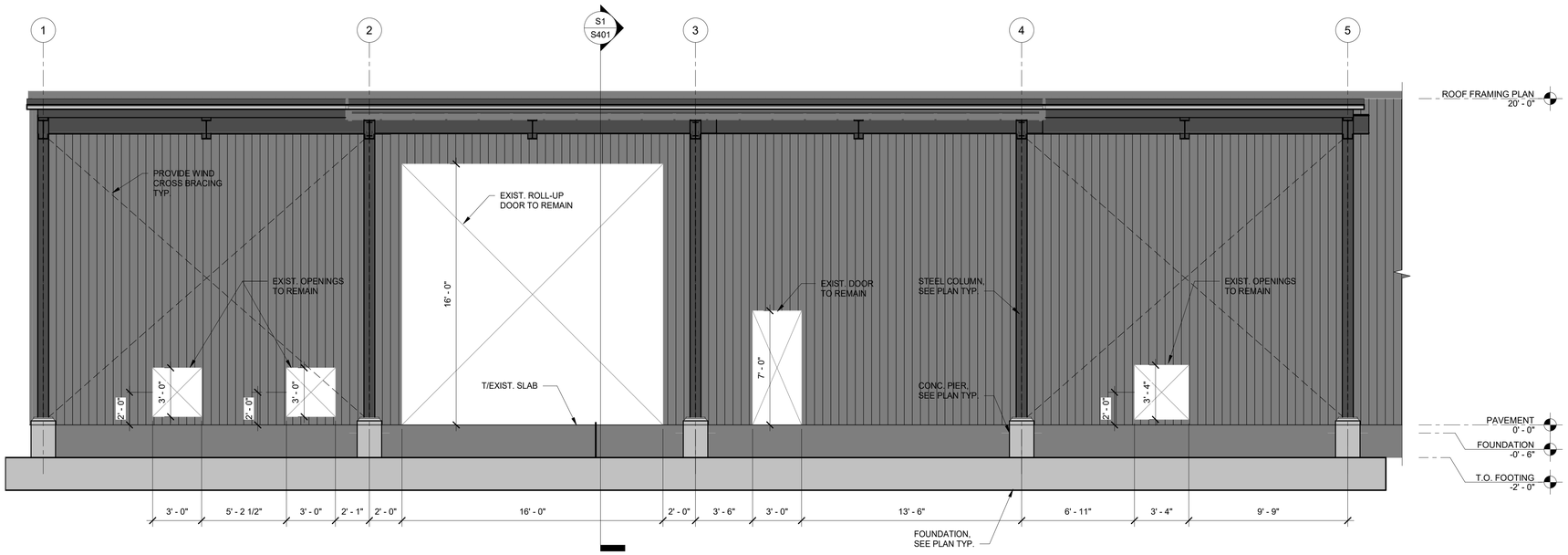
ISSUE DATE:	Issue Date
DRAWN BY:	AV & LG
CHECKED BY:	JV
ISSUE:	

SECTIONS AND DETAILS

S401

SHEET NUMBER

ATTACHMENT S



WE1 / S501 WALL ELEVATION 1

SCALE: 1/4" = 1'-0"

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3070-030-31

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CHECKED BY:	JV
ISSUE:	

WALL ELEVATIONS

S501

SHEET NUMBER

July 1, 2019

PEMBROKE PINES
CITY COMMISSION

Frank C. Ortis
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954-450-1020
fortis@ppines.com

Jay D. Schwartz
VICE MAYOR - DISTRICT 2
954-450-1030
jschwartz@ppines.com

Thomas Good, Jr.
DISTRICT 1
954-450-1030
tgood@ppines.com

Iris A. Siple
DISTRICT 3
954-450-1030
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Angelo Castillo
DISTRICT 4
954-450-1030
acastillo@ppines.com

Charles F. Dodge
CITY MANAGER
954-450-1040
cdodge@ppines.com

Addendum # 1
City of Pembroke Pines
IFB # PSUT-19-04
Metal Overhang for Wastewater Treatment Plant BCR Building

A) NEW DOCUMENTS

The following documents have been uploaded:

Attachment T, Architectural information which includes:

- Item #1: Signed and sealed electrical drawings showing the lighting for the canopy. Lighting marked as Addendum No. 1 dated 6/12/19
- Item #2: Sheet A1.01 marked with revision 1 dated June 6, 2019 clarifying some dimensions and adding painting for the canopy steel columns and beams.
- Item #3: Paint product information and Safety Data Sheets.

ADDENDUM NO.: 01

Date: June 14, 2019
Project Name: 20771-Pembroke Pines-Canopy Expansion
GLE Project No.: 19000-20771

THE FOLLOWING ADDENDUM IS MADE AND HEREBY BECOMES PART OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS FOR THE ABOVE-REFERENCED PROJECT AS PREPARED BY GLE ASSOCIATES, INC., 5405 CYPRESS CENTER DRIVE, SUITE 110, TAMPA, FLORIDA 33609.

ARCHITECTURAL

General Items:

Item #1: Signed and sealed electrical drawings showing the lighting for the canopy. Lighting marked as Addendum No. 1 dated 6/12/19

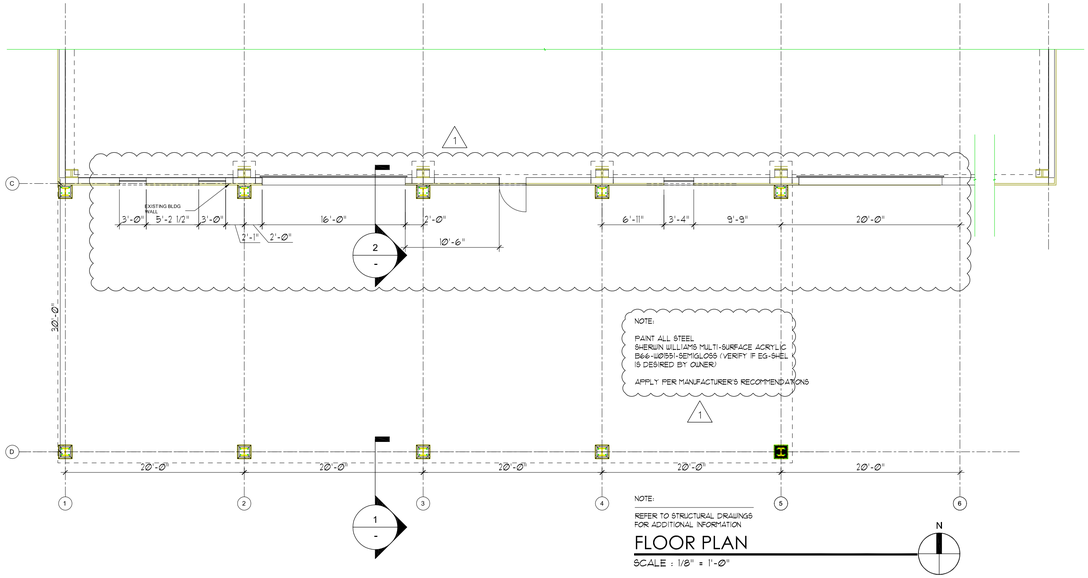
Item #2: Sheet A1.01 marked with revision 1 dated June 6, 2019 clarifying some dimensions and adding painting for the canopy steel columns and beams.

Item #3: Paint product information and Safety Data Sheets.

Copies To:
Owner
Masters Consulting Engineers
File

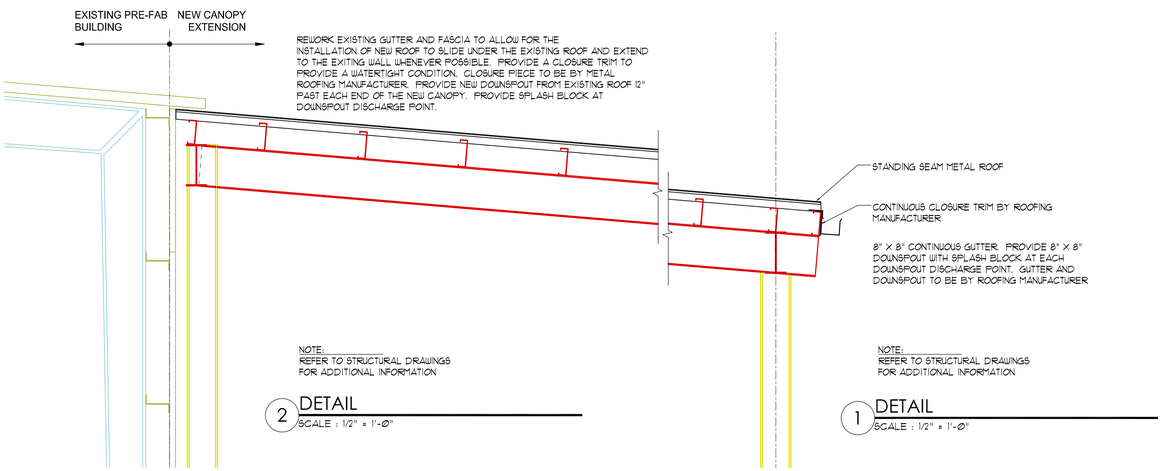
F:\Work\Arch\19000\20771-Pembroke Pines-Canopy Expansion\3. PDF Submittal\c. Construction Documents\Addendum #1

ATTACHMENT T



FLOOR PLAN

SCALE : 1/8" = 1'-Ø"

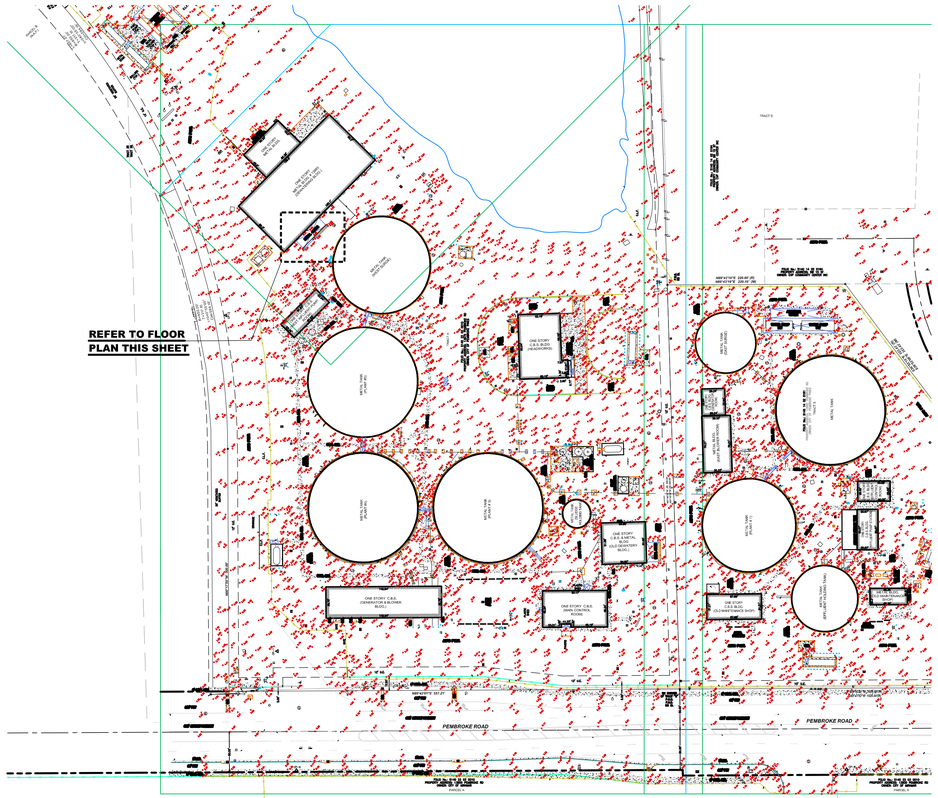


2 DETAIL

SCALE : 1/2" = 1'-Ø"

1 DETAIL

SCALE : 1/2" = 1'-Ø"



LEGAL DESCRIPTION

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GLE ASSOCIATES
AA.0002369 - CA.5483

CITY OF PEMBROKE PINES

WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION

13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE
1	ADDENDUM #1	6/12/2019

JOB NUMBER:
19000-20771

ISSUE DATE:	05-28-19
DRAWN BY:	AP
CHECKED BY:	SP
ISSUE:	

SITE PLAN
FLOOR PLAN
SECTIONS

A1.01

SHEET NUMBER

ATTACHMENT T

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.1 SUMMARY
A. Provide all labor, materials, necessary equipment and services required for a complete system as indicated on the drawings, as specified herein or both, except as for items specifically indicated as "NIC"and/or "NOT IN CONTRACT".

B. Including but not necessarily limited to the following:
(1) A complete electrical system as shown on the drawings and specified herein.
(2) Temporary electrical service for all trades.
(3) Complete distribution system for lighting and power, wiring devices, equipment, and equipment by others, controls and panel boards.
(4) Complete raceway system
(5) Transformer vault, bus stabs, underground duct bank, grounding, etc. rework as required for primary and secondary power system under the provisions of <<Add Power Utility here>>.
(6) Empty raceway system with pull strings and cabinets for the telephone system as indicated on drawings.
(7) Normal and Emergency Lighting System and Luminaries.
(8) Exterior Light and Control Systems.
(9) Marking of all junction boxes with system voltage inside and outside of box.
(10) Connect all equipment furnished by Owner or other subcontractors and provide caps, cords and materials required to complete the installation.
(11) Painting of electrical and special equipment.
(12) Furnishing and installing necessary access panels.
(13) Complete electrical testing.

1.2 DRAWINGS AND SPECIFICATIONS
A. Follow closely as possible, the drawings and risers indicated in diagrammatic form and the arrangements desired for the equipment and fixtures. Provide all necessary fittings, boxes, transitions, connectors, etc. for a complete and operational system.

B. Drawings of existing systems are based on existing documents and field conditions, some of which may be unverified. Prior to bid submission, the contractor shall study the plans and visit the project site to become familiar with the existing conditions. Any discrepancies in the contract documents which could significantly impact the project budget or schedule shall be reported to the Engineer in writing immediately. Failure to do so will not be sufficient cause for delays or additional costs later in the project. Change orders resulting from failure to properly investigate existing field conditions will not be accepted.

C. All work is new unless otherwise noted.

1.3 CONNECTION TO WORK OF OTHERS
A. Appropriate trades responsible for the connection of all equipment even when furnished by others. Control wiring under the supervision of sub-contractor furnishing equipment. Contractor installs and wires starters and control devices, pulls control wiring and wires.

1.4 CODES AND STANDARDS
A. The latest edition and revision as approved of the following codes and standards are considered minimum requirements for materials, workmanship and safety where not covered elsewhere in these specifications.
(1) Florida Building Code
(2) National Electric Code
(3) Illuminating Engineering Society of North America (IESNA) handbook
(4) Where materials and equipment are available under the continuing inspection and laboring service of Under-writer's Laboratories, Inc., furnish materials and equipment bearing such labels.
(5) Ordinances of the Local Authority having jurisdiction

1.5 SHOP DRAWINGS
A. Submit at one (1) time, within thirty (30) days of notice to proceed, in loose-leaf bond form and indexed at least three (3) copies of shop and detail drawings, factory certified prints and material lists for items included by not limited to those listed below:
(1) Switchboards and Panelboards
(2) Disconnects, motor starters, fuses, fuse holders, time clocks, contactors and relays
(3) Transformers, Generators, VFD
(4) Terminal cabinets
(5) Wiring devices and plates
(6) Light fixtures, switches, dimmers and accessories
(7) Raceways, fittings, supports, pull boxes, wire, cable, terminations and duct seal

1.6 COORDINATION
A. This Contractor is responsible for thorough review of all plans and specifications affecting this project.

B. Coordinate with other trades before the commencement of work so that routing of systems and clearances is adequate.

C. Notify the Engineer of any conflicts or deviations immediately. Do not proceed until approval is granted by the Engineer.

D. Construction Responsibility
(1) Specifications are sectionalized for convenience only and do not attempt to define divisions of construction responsibility.
(2) The Contractor: place a competent superintendent on the job as soon as practicable and keep the same superintendent throughout the job.
(3) This Contractor: responsible for the full coordination of this work with that of all other contractors required for completion of this project
(4) Provide quality mechanics; install materials and equipment in neat, workmanlike manner. Remove and replace any material or equipment, which is improperly installed at Contractor's expense.
(5) Coordinate work with all local utilities.

PART 2 PRODUCTS

2.1 HARDWARE
A. All hardware and accessory fittings: of a type designed, intended or appropriate for the use, and complement the items with which they are used, and have corrosion protection suitable for the atmosphere in which they are installed.

2.2 WIRE AND CABLES
A. Provide a #14AWG galvanized steel fish wire or a plastic line having a tensile strength of not less than 200 pounds in each empty conduit.

B. WIRE AND CABLE
(1) Lighting and receptacle branch circuit protected at no more than 20 amperes.
(2) Power and lighting cable:
(a. type THHN/THWN, XHHW material rated 600V, 90 °C
(b. #12AWG or larger
(c. stranded conductors, #10AWG and larger
(3) Provide distinctive markings for the covering of wires and cables designed to meet the above specification so that they may be readily identified in the field. Provide a distinctive color code for the covering of the individual conductors for identification of individual conductors.
(4) Color Code secondary service feeder and branch circuit conductors throughout the electrical system as follows:
120/240V (Single phase) – Phase A: Black, Phase B: Red, Neutral: White, Ground: Green
120/208V (Three phase) – Phase A: Black, Phase B: Red, Phase C: Blue, Neutral: White, Ground: Green
277/480V (Three phase) – Phase A: Brown, Phase B: Orange, Phase C: Yellow, Neutral: Gray, Ground: Green with yellow stripe.

C. GROUNDED CONDUCTOR (NEUTRAL)
(1) White or gray continuous marking.
(2) If larger than #6AWG, not continuous white or gray, then on other than green insulation color code (white or gray) tape at 12" intervals at both terminations.

D. EQUIPMENT GROUNDING CONDUCTOR
(1) Solid green or green with yellow stripes.
(2) If larger than #6AWG, not green insulation, then color code (green) at all accessible locations.

E. CABLE SPLICING AND TERMINATIONS
(1) Joints in branch circuit wiring #6AWG and smaller: made with solderless connectors such as "Scotch Lock".
(2) Splices, joints or terminations for conductors larger than #6AWG: made with pressure indent type connectors.
(3) Waterproof seal all splices in hand holes and manholes.
(4) CATV connectors: UHF and VHF
(a. Type F male one piece cable connector, 75ohms, 1 GHz performance

2.3 RIGID METAL CONDUIT (RGS)
A. Hot dipped galvanized with galvanized steel fittings.

B. Minimum size ¾"

C. long radius elbows for 2" or larger

D. Under concrete slab RGS shall have bitumastic coating or corrosion tape up to 12" AFG.

E. Uses permitted:
1. Outdoor loactions, above or below
2. Wet and damp locations
3. Dry locations concealed
4. Dry locations exposed interior up to 4' AFG

2.4 ELECTRICAL METALLIC TUBING (EMT)
A. fittings:
1. Of similar metal and manufacturer to conduit they are used with
2. Rolled steel, gland, rolled steel setscrew, and ring compression.
3. Non-ferrous, cast or pot metal type not acceptable
4. insulated throat up to 1"

B. Minimum size ¾"

C. Uses permitted:
1. Dry locations concealed
2. Dry locations exposed interior above 4' AFG.

2.5 FLEXIBLE METAL CONDUIT
A. Flexible metal conduit: made of galvanized steel, rounded, interlocking convolutions. Fittings shall be straight or angle type, set screw, 2-screw or hinge type, malleable iron/ galvanized as manufactured by Steel City, T & B or Appleton.

B. Liquid tight flexible metal conduit shall conform to NEC Article 351. Fittings shall be as manufactured by Midwest, Robroy, T & B or Appleton.

2.7 BOXES AND ACCESSORIES
A. Minimum size shall be 4 inches square by 2-1/2 inch deep, unless otherwise noted or approved.

B. Use FD outlet boxes with gasketed covers for all exterior and damp locations.

C. Cast outlet boxes shall have threaded conduit entrances and gasketed covers.

D. All boxes shall have a minimum of two hubs on the bottom.

E. Approved Manufacturers – Appleton or Crouse-Hinds

2.8 WARRANTY
1. Equipment, parts and labor shall be warranted to be free from defects in material and workmanship for a period of five(5) years from date of final substantial completion and acceptance of system by Owner.
2. Contractor shall arrive on site within two(2) normal business days to repair system under warranty. All repairs shall be completed within one(1) week.

ELECTRICAL GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO CLARIFY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF THE VARIOUS SYSTEMS. PROVIDE ALL NECESSARY EQUIPMENT, ACCESSORIES, FITTINGS, TRANSITIONS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION AS PER THESE PLANS AND ANY SPECIFICATIONS. MODIFY EXISTING SYSTEMS AS NECESSARY TO CONNECT TO NEW WORK. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL ARCHITECTURAL AND ENGINEERING DISCIPLINES. THIS WILL ENSURE THAT HE UNDERSTANDS THE FULL SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO HIS ESTIMATORS, SUPPLIERS AND INSTALLERS.

3. THE CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT USING AVAILABLE INFORMATION. THE CONTRACTOR SHALL ADVISE THE ARCHITECT/ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR IF CODE/SAFETY CONFLICTS EXIST.

4. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. CHANGES IN THE CONTRACT SUM AND CONTRACT TIME WILL NOT BE ALLOWED FOR FAILURE TO INVESTIGATE EXISTING FIELD CONDITIONS.

5. COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.

6. DO NOT SCALE FROM THESE DRAWINGS.

7. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS AS FOLLOWS:
FLORIDA BUILDING CODE (SIXTH ED.)(2017)
NFPA 72 (NEC)(2014)
LATEST NFPA CODES AND STANDARDS
ALL LOCAL AND STATE CODES AND REGULATIONS

9. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

10. MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE U.O.N.

11. ALL BRANCH CIRCUITS SHALL BE RUN WITH A GREEN GROUNDING CONDUCTOR.

12. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE-RATED PARTITIONS (WALLS, FLOORS OR CEILINGS) WITH AN APPROVED FIRESTOP SYSTEM RATED FOR THE APPLICATION. THE FIRESTOP SYSTEM SHALL BE UL-LISTED AND INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

13. ALL RACEWAY SYSTEMS SHALL HAVE A MAXIMUM OF (4) 90-DEGREE BENDS BETWEEN PULL BOXES.

14. PROVIDE A PULL STRING IN ALL EMPTY CONDUIT RUNS.

15. ALL CONDUITS SHALL BE CONCEALED U.O.N. MINIMUM CONDUIT SIZE SHALL BE 3/4".

16. ANY EXPOSED CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT CONSTRUCTION.

17. FLEXIBLE CONDUIT CONNECTIONS TO EQUIPMENT SHALL BE LIMITED TO 6'-0" IN LENGTH.

18. COORDINATE ALL LIGHTING AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.

19. ALL ELECTRICAL PANELS, SWITCHGEAR, DISCONNECTS AND TERMINAL CABINETS SHALL BE IDENTIFIED WITH A PERMANENTLY AFFIXED NAME PLATE INDICATING VOLTAGE, AMPERES, MANUFACTURER, MODEL NUMBER AND THE NAME AND LOCATION OF THE EQUIPMENT THAT THEY SERVE.

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN DO NOT NECESSARILY APPLY TO THE PROJECT

- 2X4 FLUORESCENT FIXTURE – RECESSED, X INDICATES TYPE, y INDICATES SWITCH LEG
- 2X4 FLUORESCENT FIXTURE – RECESSED – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- 1X4 FLUORESCENT FIXTURE – PENDANT, X INDICATES TYPE, y INDICATES SWITCH LEG
- 1X4 FLUORESCENT FIXTURE – PENDANT – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- 2X2 FLUORESCENT FIXTURE – RECESSED, X INDICATES TYPE, y INDICATES SWITCH LEG
- 2X2 FLUORESCENT FIXTURE – RECESSED – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- 4 FT. INDUSTRIAL CHANNEL FIXTURE – PENDANT, X INDICATES TYPE, y INDICATES SWITCH LEG
- 4 FT. INDUSTRIAL CHANNEL FIXTURE – PENDANT – EMERGENCY, X INDICATES TYPE, y INDICATES SWITCH LEG
- DOWNLIGHT – RECESSED, X INDICATES TYPE, y INDICATES SWITCH LEG
- DOWNLIGHT – RECESSED – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- DOWNLIGHT – SURFACE, X INDICATES TYPE, y INDICATES SWITCH LEG
- DOWNLIGHT – SURFACE – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- DOWNLIGHT – PENDANT
- DOWNLIGHT – PENDANT – EMERGENCY
- WALL MOUNT FIXTURE, X INDICATES TYPE, y INDICATES SWITCH LEG
- WALL MOUNT FIXTURE – EMERGENCY, XE INDICATES TYPE, y INDICATES SWITCH LEG
- EMERGENCY EXIT SIGN, SINGLE OR DUAL FACE, WALL OR CEILING MOUNTED AS SHOWN, ARROW INDIACTES DIRECTION
- EM – EMERGENCY LIGHTING UNIT, WALL OR CEILING MOUNTED, LETTER(S) INDICATE TYPE, REFER TO FIXTURE SCHEDULE
- EX – COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT, SINGLE OR DUAL FACE, LETTER(S) INDICATE TYPE, REFER TO FIXTURE SCHEDULE
- OS – CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY U.O.N.
- OS – WALL MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY U.O.N.
- PC – PHOTOCELL
- POLE MOUNTED LIGHT FIXTURE X INDICATES TYPE
- POST TOP LIGHT FIXTURE, X INDICATES TYPE
- TC – TIME CLOCK
- TOGGLE SWITCH, 20A RATED U.O.N.
  X =
  2 TWO POLE
  3 THREE WAY
  4 FOUR WAY
  D DIMMER
  H HEAT TRACE
  K KEY OPERATED
  M MOTOR HP RATED
  P PILOT LIGHT
  T TIME DELAY
  OS OCCUPANCY SENSOR
- EV – ELECTRIC VEHICLE CHARGING STATION – SINGLE
- EV – ELECTRIC VEHICLE CHARGING STATION – DOUBLE

- DUPLEX RECEPTACLE, 20 AMP, X INDICATES CIRCUIT #
- GFI – DUPLEX RECEPTACLE, 20 AMP, GFI TYPE, X INDICATES CIRCUIT #
- DUPLEX RECEPTACLE, HALF-SWITCH, 20 AMP, X INDICATES CIRCUIT #
- DUPLEX RECEPTACLE, ABOVE COUNTER, 20 AMP, X INDICATES CIRCUIT #
- GFI – DUPLEX RECEPTACLE, ABOVE COUNTER, 20 AMP, GFI TYPE, X INDICATES CIRCUIT #
- DUPLEX RECEPTACLE, FLOOR MOUNTED, 20 AMP, X INDICATES CIRCUIT #
- DUPLEX RECEPTACLE, CEILING MOUNTED, 20 AMP, X INDICATES CIRCUIT #
- QUADRUPLEX RECEPTACLE, 20 AMP, X INDICATES CIRCUIT #
- QUADRUPLEX RECEPTACLE, ABOVE COUNTER, 20 AMP, X INDICATES CIRCUIT #
- QUADRUPLEX RECEPTACLE, FLOOR MOUNTED, 20 AMP, X INDICATES CIRCUIT #
- RANGE RECEPTACLE, 50 AMP, X INDICATES CIRCUIT #
- DRYER RECEPTACLE, 30 AMP, X INDICATES CIRCUIT #
- COMBINATION POWER RECEPTACLE AND PNEUMATIC HOSE REEL, RETRACTABLE
- J – JUNCTION BOX RECESSED MOUNTED IN WALL, FLOOR OR CEILING, MIN. DIMENSIONS 4"x4"x2.5"
- J – JUNCTION BOX SURFACE MOUNTED ON WALL, FLOOR OR CEILING, MIN. DIMENSIONS 4"x4"x2.5"
- X – MOTOR, X INDICATES HP SIZE
- FUSED DISCONNECT / SAFETY SWITCH X = FRAME SIZE, Y = FUSE SIZE, Z = # OF POLES
- NON-FUSED DISCONNECT / SAFETY SWITCH X = FRAME SIZE, Z = # OF POLES
- 120/208V 3ϕ 4W PANELBOARD SURFACE MOUNTED
- 120/208V 3ϕ 4W PANELBOARD RECESS MOUNTED
- 120/240V 1ϕ 3W PANELBOARD SURFACE MOUNTED
- 120/240V 1ϕ 3W PANELBOARD RECESS MOUNTED
- 277/480V 3ϕ 4W PANELBOARD SURFACE MOUNTED
- 277/480V 3ϕ 4W PANELBOARD RECESS MOUNTED
- ELECTRIC DUCT HEATER
- TX – DRY-TYPE TRANSFORMER, 480V – 208/120V 3ϕ 4W, Δ – Wye
  X = 1: 15kVA
  2: 30kVA
  3: 45kVA
  4: 75kVA
  5: 112.5kVA
  6: 150kVA
  7: 225kVA
  8: 300kVA
  9: 500kVA
- TX – DRY-TYPE TRANSFORMER, 480V – 240/120V 1ϕ 3W
  X = 1: 15kVA
  2: 25kVA
  3: 37.5kVA
  4: 50kVA
  5: 75kVA
  6: 100kVA
  7: 167kVA
  8: 250kVA
- YYX – HANDHOLE:
  YY = LD: LIGHT DUTY
  MD: MEDIUM DUTY
  HD: HEAVY DUTY
  TD: TRAFFIC DUTY
  X = 1: L X W X H
  2: L X W X H
  3: L X W X H
- CONDUIT/WIRE EXPOSED ON CEILING, SPACE OR WALL
- CONDUIT/WIRE RUN BELOW GRADE OR IN THE FLOOR SLAB
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- GROUND ROD/CONNECTION
- HOMERUN CIRCUIT
- TO BE DEMOLISHED

ABBREVIATIONS

A, AMP	AMPERE
AC	ALTERNATING CURRENT
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AMW	ABOVE MILL WORK
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BG	BELOW GRADE
BDC	BELOW DROP CEILING
CND	CONDUIT
CB	CIRCUIT BREAKER
cd	CANDELA
CKT	CIRCUIT
CLG	CEILING
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DECIBEL
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DP	DOUBLE POLE
DT	DOUBLE THROW
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FC	FOOTCANDLE
FLA	FULL LOAD AMPS
FO	FIBER OPTIC
FVR	FULL VOLTAGE, REVERSING
FVNR	FULL VOLTAGE, NON-REVERSING
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GRA	GENERATOR REMOTE ANNUNCIATOR
HD	HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KP	KEYPAD
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MH	MANHOLE, METAL HALIDE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
OS	OCCUPANCY SENSOR
PB	PULL BOX, PUSH BUTTON
PC	PHOTOCELL
PH	PHASE
PNL	PANEL
PP	PATCH PANEL
(R)	REMOVE
(RL)	RELOCATE
REC	RECESSED
REF	REFRIGERATOR
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTION DEVICE
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWISTLOCK
TS	TIME SWITCH (TIME CLOCK)
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WG	WIREGUARD
WL	WET LOCATION
WP	WEATHER PROOF
XP	EXPLOSION PROOF
XFMR	TRANSFORMER

MOUNTING HEIGHTS

DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE U.O.N.

GEN. RECEPTACLES	18" AFF
ABV COUNTER RECEPT.	42" AFF
CLOCK OUTLET	96" AFF OR 6" BC
WALL SWITCHES	48" AFF
NIGHT LIGHTS	18" AFF
BED LIGHTS	72" AFF
PANELS	72" AFF TO TOP
DISCONNECTS	72" AFF TO TOP
TERMINAL CABINETS	72" AFF TO TOP
PUSH BUTTONS	48" AFF
COMMUNICATIONS OUTLETS	18" AFF
INTERCOM CALL STATIONS	48" AFF
FIRE ALARM PULL STATIONS	48" AFF
FIRE ALARM HORN/STROBES	80" AFF OR 6" BC

GLE

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AA 0002369 - CA 5483

GREGORY C. LAPIERRE LICENSE No 71685 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Gregory C LaPierre
Contact Info: 813-241-8350
Date: 2019.06.14 08:10:10-04'00'

Drawing Not Valid Unless Signed, Sealed & Dated By Registered Professional

CITY OF PEMBROKE PINES

WASTE WATER PLANT BIOSOLIDS BUILDING OVERHANG EXTENSION

13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE
1	ADDENDUM #1	06/12/19

JOB NUMBER:
19000-20771

ISSUE DATE:	05-28-19
DRAWN BY:	GCL
CHECKED BY:	GCL
ISSUE:	

ELECTRICAL
GENERAL NOTES,
SPECIFICATIONS & LEGENDS

E0.01

SHEET NUMBER

ATTACHMENT T

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	B	6	Lithonia Lighting	CNY LED P2 40K MVOLT	CNY LED Canopy P2=6,600lm		168	CNY_LED_P2_40K_MVOLT.ies	6601	0.7	51.86

3 LIGHT FIXTURE SCHEDULE

SCALE: SCALE

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Canopy	+	6.3 fc	10.7 fc	3.9 fc	2.7:1	1.6:1
Top of Truck	+	4.0 fc	8.3 fc	1.7 fc	4.9:1	2.4:1

4 LIGHT STATISTICS

SCALE: SCALE

NOTES

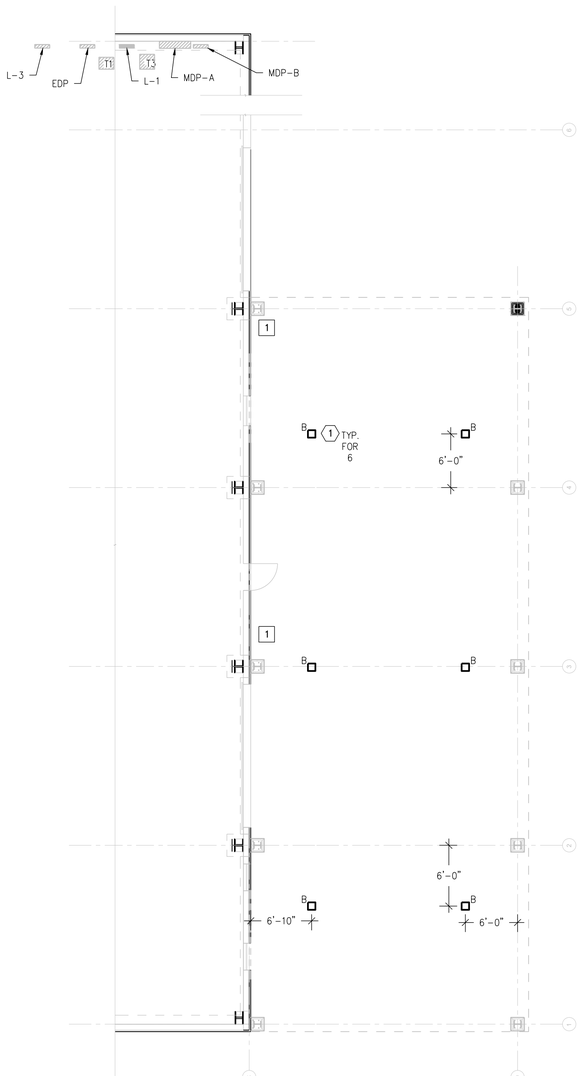
1. SEE SHEET E0.01 FOR GENERAL NOTES AND LEGENDS.
2. FOOTCANDLE READINGS TAKEN AT GRADE AND TOP OF TRAILER.

DEMOLITION NOTES (X)

1. EXISTING LIGHT FIXTURE TO REMAIN.

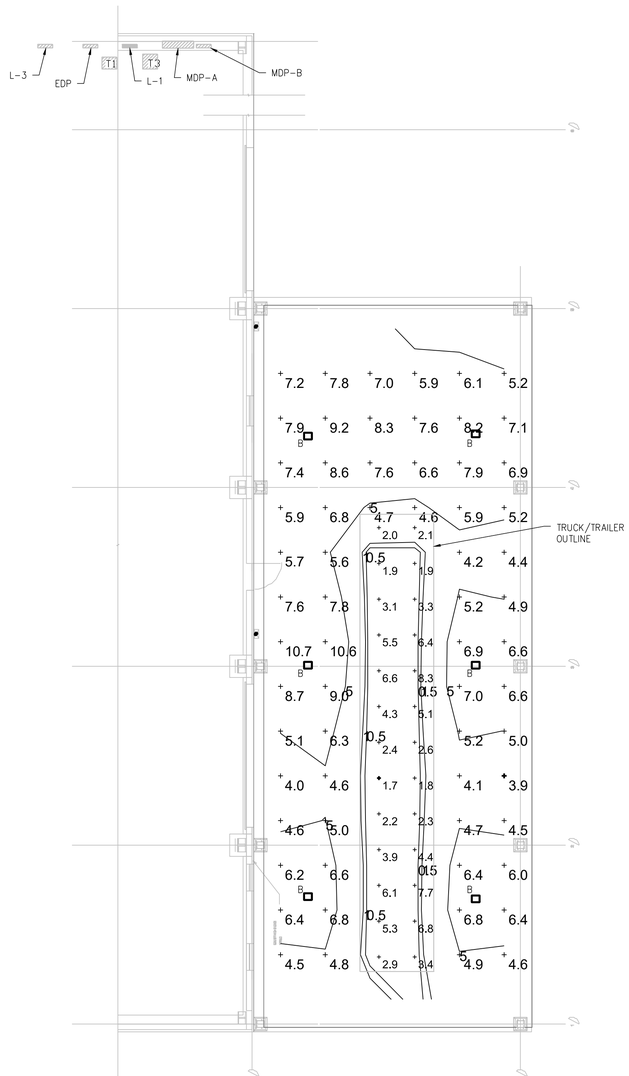
KEYED NOTES (X)

1. NEW CANOPY LIGHT FIXTURE: MOUNT 15FT AFG TO BOTTOM OF LENS. COORDINATE LOCATION WITH STRUCTURAL STEEL AND EXISTING METAL DUCTS/MOTORS. CONNECT TO OUTSIDE LIGHTING CIRCUIT ON PANEL L-1 CIRCUIT 18 WITH 2C #12AWG, #12GND IN ¾" RACEWAY (EMT INSIDE, RGS OUTSIDE).



1 NEW CANOPY LIGHTING PLAN

SCALE: 1/8" = 1'-0"



2 PHOTOMETRIC PLAN

SCALE: 1/8" = 1'-0"

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Drawing Not Valid Unless Signed, Sealed & Dated By Registered Professional

CITY OF PEMBROKE PINES
WASTE WATER PLANT BIOSOLIDS
BUILDING OVERHANG EXTENSION
13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE
1	ADDENDUM #1	06/12/19

JOB NUMBER:
19000-20771

ISSUE DATE:	05-28-19
DRAWN BY:	GCL
CHECKED BY:	GCL
ISSUE:	

ELECTRICAL
CANOPY LIGHTING
PLAN & PHOTOMETRICS

E1.01

SHEET NUMBER

CITY OF PEMBROKE PINES WASTEWATER PLANT

PANEL SCHEDULE: L-1

LOCATION: 0
FED FROM: MDP-A-44,46,48
CONDITION TYPE: EXIST

VOLTAGE:	HERTZ:	PHASE:	WIRE:	MAIN BKR:		MOUNTING
208/120V	60	3	4	AF:	150A	BRK: BOTTOM
				AT:	150A	PNL: SURFACE

SHORT CIRCUIT RATING:	14 KA	208V			ENCLOSURE:	NEMA TYPE 1
NEUTRAL BUS:	100%	120V	120V	120V	FEED ENTRY:	BOTTOM

#	ID	LOAD DESCRIPTION	BRK	POLE	KVA	A	B	C	KVA	POLE	BRK	LOAD DESCRIPTION	ID	#
1					0.00	1.0			0.96	1	20	CDCP #4		2
3		TVSS	30	3	0.00		1.0		0.96	1	20	CDCP #2		4
5					0.00			0.6	0.56	1	20	DWSP		6
7		CDCP #5	20	1	0.96	1.1			0.12	1	20	DAMPERS		8
9		RCPT CHEM. SKID AREA	20	1	0.36		1.6		1.20	1	20	OVERHEAD DOORS		10
11		CHEM. FILL DISPLAY	20	1	0.36			0.7	0.36	1	20	RCPT NEUT. AREA		12
13		RCPT CENTRIFUGE AREA	20	1	0.36	0.6			0.24	1	20	CENTRIFUGE 3 WAY VALVE		14
15	O	SPARE	20	1	0.00		0.6		0.60	1	20	GATE OPENER		16
17	O	SPARE	20	1	0.00			0.2	0.23	1	20	OUTSIDE LIGHTS		18
19		CDCP #3	20	1	0.96	1.0			0.00	1	20	MCP		20
21	O	SPARE	20	1	0.00		0.0		0.00	1	20	MCP		22
23	O	SPARE	20	1	0.00			0.0	0.00	1	20	MCP		24
25		RCPT THICK AREA	20	1	0.36	0.8			0.48	1	20	EXIT LIGHTS		26
27	O	SPARE	20	1	0.00		0.0		0.00	1	20	SPARE	O	28
29		CDCP #1	20	1	0.96			1.7	0.72	1	20	RCPT OUTSIDE		30
31		SHUNT TRIP	30	1	0.00	0.2			0.24	1	20	GAS MONITOR		32
33		DAMPERS	20	1	0.48		0.5		0.00	1	20	SPARE	O	34
35	O	SPARE	20	1	0.00			0.0	0.00	1	20	SPARE	O	36
37	O	SPARE	20	1	0.00	0.0			0.00	1	20	SPARE	O	38
39		SPARE	30	2	0.00		0.0		0.00	2	20	SPARE	O	40
41					0.00			0.0	0.00					42
43		SPACE		1	0.00	0.0			0.00	1		SPACE		44
45		SPACE		1	0.00		0.0		0.00	1		SPACE		46
47		SPACE		1	0.00			0.0	0.00	1		SPACE		48
49		SPACE		1	0.00	0.0			0.00	1		SPACE		50
51		SPACE		1	0.00		0.0		0.00	1		SPACE		52
53		SPACE		1	0.00			0.0	0.00	1		SPACE		54
55		SPACE		1	0.00	0.0			0.00	1		SPACE		56
57		SPACE		1	0.00		0.0		0.00	1		SPACE		58
59		SPACE		1	0.00			0.0	0.00	1		SPACE		60
61		SPACE		1	0.00	0.0			0.00	1		SPACE		62
63		SPACE		1	0.00		0.0		0.00	1		SPACE		64
65		SPACE		1	0.00			0.0	0.00	1		SPACE		66
67		SPACE		1	0.00	0.0			0.00	1		SPACE		68
69		SPACE		1	0.00		0.0		0.00	1		SPACE		70
71		SPACE		1	0.00			0.0	0.00	1		SPACE		72
73		SPACE		1	0.00	0.0			0.00	1		SPACE		74
75		SPACE		1	0.00		0.0		0.00	1		SPACE		76
77		SPACE		1	0.00			0.0	0.00	1		SPACE		78
79		SPACE		1	0.00	0.0			0.00	1		SPACE		80
81		SPACE		1	0.00		0.0		0.00	1		SPACE		82
83		SPACE		1	0.00			0.0	0.00	1		SPACE		84

O-OFF
S-SHUNT
*-GFI

LOAD:	CONNECTED (KVA)	CONNECTED (A)	DEMAND (KVA)	DEMAND (A)	AVE. CONNECTED (KVA)	AVE. CONNECTED (A)
PHASE A:	4.68	39.00	4.16	34.65	11.47	31.83
PHASE B:	3.60	30.00	3.20	26.65	AVE. DEMAND	
PHASE C:	3.19	26.55	2.83	23.58	(KVA)	(A)
					10.19	28.27

O-OFF
S-SHUNT
*-GFI

CITY OF PEMBROKE PINES WASTEWATER PLANT

PANEL SCHEDULE: L-1

LOCATION: 0
FED FROM: MDP-A-44,46,48
CONDITION TYPE: RENO

VOLTAGE:	HERTZ:	PHASE:	WIRE:	MAIN BKR:		MOUNTING
208/120V	60	3	4	AF:	150A	BRK: BOTTOM
				AT:	150A	PNL: SURFACE

SHORT CIRCUIT RATING:	14 KA	208V			ENCLOSURE:	NEMA TYPE 1					CONDUIT SIZE	CABLE SIZE
NEUTRAL BUS:	100%	120V	120V	120V	FEED ENTRY:	BOTTOM						

#	ID	LOAD DESCRIPTION	BRK	POLE	KVA	A	B	C	KVA	POLE	BRK	LOAD DESCRIPTION	ID	#		
1					0.00	1.0			0.96	1	20	CDCP #4		2	EX	EX
3		TVSS	30	3	0.00		1.0		0.96	1	20	CDCP #2		4	EX	EX
5					0.00			0.6	0.56	1	20	DWSP		6	EX	EX
7		CDCP #5	20	1	0.96	1.1			0.12	1	20	DAMPERS		8	EX	EX
9		RCPT CHEM. SKID AREA	20	1	0.36		1.6		1.20	1	20	OVERHEAD DOORS		10	EX	EX
11		CHEM. FILL DISPLAY	20	1	0.36			0.7	0.36	1	20	RCPT NEUT. AREA		12	EX	EX
13		RCPT CENTRIFUGE AREA	20	1	0.36	0.6			0.24	1	20	CENTRIFUGE 3 WAY VALVE		14	EX	EX
15	O	SPARE	20	1	0.00		0.6		0.60	1	20	GATE OPENER		16	EX	EX
17	O	SPARE	20	1	0.00			0.3	0.31	1	20	OUTSIDE LIGHTS		18	(1) 3/4"	#12 AWG
19		CDCP #3	20	1	0.96	1.0			0.00	1	20	MCP		20	EX	EX
21	O	SPARE	20	1	0.00		0.0		0.00	1	20	MCP		22	EX	EX
23	O	SPARE	20	1	0.00			0.0	0.00	1	20	MCP		24	EX	EX
25		RCPT THICK AREA	20	1	0.36	0.8			0.48	1	20	EXIT LIGHTS		26	EX	EX
27	O	SPARE	20	1	0.00		0.0		0.00	1	20	SPARE	O	28		
29		CDCP #1	20	1	0.96			1.7	0.72	1	20	RCPT OUTSIDE		30	EX	EX
31		SHUNT TRIP	30	1	0.00	0.2			0.24	1	20	GAS MONITOR		32	EX	EX
33		DAMPERS	20	1	0.48		0.5		0.00	1	20	SPARE	O	34		
35	O	SPARE	20	1	0.00			0.0	0.00	1	20	SPARE	O	36		
37	O	SPARE	20	1	0.00	0.0			0.00	1	20	SPARE	O	38		
39		SPARE	30	2	0.00		0.0		0.00	2	20	SPARE	O	40		
41					0.00			0.0	0.00					42		
43		SPACE		1	0.00	0.0			0.00	1		SPACE		44		
45		SPACE		1	0.00		0.0		0.00	1		SPACE		46		
47		SPACE		1	0.00			0.0	0.00	1		SPACE		48		
49		SPACE		1	0.00	0.0			0.00	1		SPACE		50		
51		SPACE		1	0.00		0.0		0.00	1		SPACE		52		
53		SPACE		1	0.00			0.0	0.00	1		SPACE		54		
55		SPACE		1	0.00	0.0			0.00	1		SPACE		56		
57		SPACE		1	0.00		0.0		0.00	1		SPACE		58		
59		SPACE		1	0.00			0.0	0.00	1		SPACE		60		
61		SPACE		1	0.00	0.0			0.00	1		SPACE		62		
63		SPACE		1	0.00		0.0		0.00	1		SPACE		64		
65		SPACE		1	0.00			0.0	0.00	1		SPACE		66		
67		SPACE		1	0.00	0.0			0.00	1		SPACE		68		
69		SPACE		1	0.00		0.0		0.00	1		SPACE		70		
71		SPACE		1	0.00			0.0	0.00	1		SPACE		72		
73		SPACE		1	0.00	0.0			0.00	1		SPACE		74		
75		SPACE		1	0.00		0.0		0.00	1		SPACE		76		
77		SPACE		1	0.00			0.0	0.00	1		SPACE		78		
79		SPACE		1	0.00	0.0			0.00	1		SPACE		80		
81		SPACE		1	0.00		0.0		0.00	1		SPACE		82		
83		SPACE		1	0.00			0.0	0.00	1		SPACE		84		

O-OFF
S-SHUNT
*-GFI

LOAD:	CONNECTED (KVA)	CONNECTED (A)	DEMAND (KVA)	DEMAND (A)	AVE. CONNECTED (KVA)	AVE. CONNECTED (A)
PHASE A:	4.68	39.00	4.16	34.68	11.55	32.07
PHASE B:	3.60	30.00	3.20	26.68	AVE. DEMAND	
PHASE C:	3.27	27.27	2.91	24.25	(KVA)	(A)
					10.27	28.51

O-OFF
S-SHUNT
*-GFI

L-1
LOAD TABULATION for STORAGE SPACES

	CONNECTED	FACTOR	DEMAND	STATISTICS
				A PHASE BALANCE
LIGHTING	1.15	NEC (220.42)	1.15	40.51%
RECEPTACLE	2.16	NEC (220.44)	2.16	B PHASE BALANCE
ELECTRIC SPACE HEAT (SEPARATE)	0.00	NEC (220.51)	0.00	31.16%
HVAC UNIT ELECTRIC HEAT	0.00	NEC (220.82C)	0.00	C PHASE BALANCE
HVAC UNIT MOTORS *	0.00	NEC (220.82C)	0.00	28.32%
MOTORS (EXH FANS,ETC)	3.20	NEC (430.26)	1.92	
KITCHEN EQUIPMENT (WTR HTR, RANGE)	0.00	NEC (220.56)	0.00	SPARE AMPS
TRACK LIGHTING	0.00	NEC (220.43B)	0.00	121
CLOTHES DRYER	0.00	NEC (220.54)	0.00	
MISCELLANEOUS EQUIPMENT	5.04	1.00	5.04	SPARE KVA
SUBFEEDS	0.00	0.00	0.00	43.8
				SPARE PERCENTAGE
TOTAL (KVA)	11.55		10.27	80.99%
TOTAL (AMPS)	32.07		28.51	

PANEL L-1
VOLTAGE DROP

SOURCE	CIRCUIT #	LOAD NAME	CABLE SIZE	DIST TO PANEL	Z/Kft Ω/1000ft	LOAD (A)	VOLTAGE DROP (V)	VOLTAGE DROP (%)
*	18	OUTSIDE LIGHTS	#12 AWG	150	2.0000	2.60	1.5700	1.31

NOTES

1. SEE SHEET E0.01 FOR GENERAL NOTES AND LEGENDS.
2. GRAY CIRCUIT INFORMATION ON RENO PANEL ARE EXISTING WITH NO CHANGES.

GLE

- TAMPA, FL
  5405 Cypress Center Drive
  Suite 110
  Tampa, Florida 33609
  813.241.8350
- ORLANDO, FL
- GAINESVILLE, FL
- FT. LAUDERDALE, FL
- JACKSONVILLE, FL
- ATLANTA, GA
- NASHVILLE, TN

GLE ASSOCIATES
AA 0002369 - CA 5483

CITY OF PEMBROKE PINES
WASTE WATER PLANT BIOSOLIDS
BUILDING OVERHANG EXTENSION
13795 PEMBROKE ROAD
PEMBROKE PINES, FLORIDA 33027

NO.	REVISIONS	DATE
1	ADDENDUM #1	06/12/19

JOB NUMBER:
19000-20771

ISSUE DATE:	05-28-19
DRAWN BY:	GCL
CHECKED BY:	GCL
ISSUE:	

ELECTRICAL
PANEL "L-1"
SCHEDULE

E6.01

SHEET NUMBER

113.04A

PRO INDUSTRIAL

MULTI-SURFACE ACRYLIC

B66-1500 SERIES GLOSS
B66-1550 SERIES SEMI-GLOSS
B66-1560 SERIES EG-SHEL

As of 10/15/2018, Complies with:			
OTC	Yes	LEED® 09 NC CI	Yes
OTC Phase II	Yes	LEED® 09 CS	Yes
SCAQMD	Yes	LEED® v4 Emissons	No
CARB	Yes	LEED® v4 VOC	Yes
CARB SCM 2007	Yes		
Canada	Yes	MPI Gloss & Eg-Shel	Yes

PRODUCT DESCRIPTION

Pro Industrial Multi-Surface Acrylic is a waterborne acrylic for interior and exterior use on marginally prepared metal or masonry surfaces. Features multiple sheens, fast dry, easy application and dry fall properties.

- Self-priming directly to multiple surfaces
- Excellent one-coat hide and stain blocking
- Excellent adhesion to slick and glossy surfaces
- Abrasion resistant
- Optimized for spray application
- Good exterior color and gloss retention
- Dries fast and dry falls in 10-15 feet
- Suitable for use in USDA inspected facilities

PRODUCT CHARACTERISTICS

Color: most colors

Extra White B66W01501
(may vary by base)

Recommended Spread Rate per coat:

Wet mils:	3.75 - 6.0
Dry mils:	1.5 - 2.5
Coverage:	263 - 435 sq ft/gal

Approximate spreading rates are calculated on volume solids and do not include any application loss. Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Finish: 10-20@85° Eg-Shel
35-45@60° Semi-Gloss
70+@60° Gloss

Tinting with CCE:

Base	oz/gal	Strength
Extra White	0-6	Sher-Color
Ultradeep	10-14	Sher-Color

Tinting will affect the dryfall characteristics

SPECIFICATIONS

Extra White:	B66W01501	B66W01551 (may vary by color)	B66W01561
VOC (less exempt solvents):	<50 g/L; <0.42 lb/gal As per 40 CFR 59.406		
Volume Solids:	41 ± 2%	38 ± 2%	39 ± 2%
Weight Solids:	52 ± 2%	50 ± 2%	51 ± 2%
Weight per Gallon:	10.31 lb/gal ± 2%	10.25 lb/gal ± 2%	10.39 lb/gal ± 2%
Flash Point:	N/A	N/A	N/A
Vehicle Type:	Acrylic	Acrylic	Acrylic
Shelf Life:	24 months	24 months	24 months

Drying Schedule @ 5.0 mils wet, 50% RH:

	@ 50°F	@ 77°F	@ 110°F
To touch:	1 hr	30 min	15 min
To handle:	2 hrs	1 hr	30 min
To recoat:	4 hrs	2 hrs	1 hr
Dryfall:	10-15 ft.	10 ft.	10 ft.

Drying, and recoat times are temperature, humidity, and film thickness dependent. Dry fall characteristics will be affected at temperatures below 77°F(25°C) or above 50% RH.

RECOMMENDED SYSTEMS

Steel:
2 cts. Pro Industrial Multi-Surface Acrylic

Steel:
1 ct. Pro Industrial Pro-Cryl Primer
2 cts. Pro Industrial Multi-Surface Acrylic

Aluminum:
2 cts. Pro Industrial Multi-Surface Acrylic

Galvanizing:
2 cts. Pro Industrial Multi-Surface Acrylic

Concrete Block:
1 ct. Pro Industrial Heavy Duty Block Filler
2 cts. Pro Industrial Multi-Surface Acrylic

Concrete/Masonry:
2 cts. Pro Industrial Multi-Surface Acrylic

The systems listed above are representative of the product's use, other systems may be appropriate.

System Tested: (unless otherwise indicated)

Substrate:	Steel
Surface Preparation:	SSPC-SP10
Finish:	2 ct. Pro Industrial Multi-Surface Acrylic, B66W01501 6 mils WFT, 2.5 mils DFT per coat

Abrasion Resistance
Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load
Result: 28.1 mg loss

Adhesion
Method: ASTM D4541,
Result: >1100 psi

Direct Impact Resistance:
Method: ASTM D2794
Result: 36 in. lb

Dry Heat Resistance:
Method: ASTM D2485
Result: 300°F

Flexibility:
Method: ASTM D522, 180° bend, 1/8" mandrel
Result: Passes

Pencil Hardness:
Method: ASTM D3363
Result: 4H

continued on back

ATTACHMENT T

SHERWIN-WILLIAMS.

PRO INDUSTRIAL MULTI-SURFACE ACRYLIC

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Do not use hydrocarbon solvents for cleaning.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance.

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP16 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Heavy Duty Block Filler or Loxon Block Surfacer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

Previously Painted Surfaces - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

APPLICATION PROCEDURES

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build. Excessive reduction of material can affect film build, appearance, and adhesion.

Overspray landing on hot surfaces may adhere to these surfaces. Immediately remove overspray from hot surfaces before adhesion occurs.

Dry fall characteristics will be affected by tinting and at temperatures below 77°F(25°C) or above 50% RH.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label and refer to the Safety Data Sheets (SDSs) before use. **FOR PROFESSIONAL USE ONLY.**

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

PERFORMANCE TIPS

No painting should be done immediately after a rain or during foggy weather.

Do not paint on wet surfaces.

Check adhesion by applying a test strip to determine the readiness for painting.

APPLICATION

Temperature: 50°F minimum
100°F maximum
(Air, surface, and material)
At least 5°F above dew point

Relative humidity: 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer: Water

Airless Spray

Pressure ..... 2000 psi
Hose ..... 1/4" ID
Tip ..... .013" - .017"
Filter ..... 60 mesh
Reduction ..... Not recommended

Conventional Spray

Gun ..... Binks 95
Fluid Nozzle 63C
Air Nozzle 63FB
Atomization Pressure ..... 60 PSI
Fluid Pressure ..... 50 PSI
Reduction ..... Not recommended

Brush ..... Nylon / polyester
Reduction ..... Not recommended
Due to this product's fast dry performance, brushing should be limited to small areas where a wet edge can be maintained

Roller ..... 1/4" woven
Reduction ..... Not recommended

If specific application equipment is listed above, equivalent equipment may be substituted.

CLEANUP INFORMATION

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW	10/15/2018	B66W01501	11 44
HOTW	10/15/2018	B66W01551	05 44
HOTW	10/15/2018	B66W01561	10 44

FRC, SP, KOR

SAFETY DATA SHEET

B66W1551

Section 1. Identification

Product name : PRO INDUSTRIAL™ Multi-Surface Acrylic Semi-Gloss Extra White

Product code : B66W1551

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (216) 566-2917
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number : US / Canada: (800) 524-5979
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 2

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Suspected of causing cancer.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Response : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.

Section 2. Hazards identification

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Amorphous Silica	≤3	7631-86-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Section 4. First aid measures

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Titanium Dioxide	**ACGIH TLV (United States, 3/2018).** TWA: 10 mg/m³ 8 hours. **OSHA PEL (United States, 5/2018).** TWA: 15 mg/m³ 8 hours. Form: Total dust
Amorphous Silica	**NIOSH REL (United States, 10/2016).** TWA: 6 mg/m³ 10 hours.

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Titanium dioxide	**CA British Columbia Provincial (Canada, 7/2018).** TWA: 3 mg/m³ 8 hours. Form: Respirable dust TWA: 10 mg/m³ 8 hours. Form: Total dust **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 10 mg/m³ 8 hours. Form: Total dust. **CA Alberta Provincial (Canada, 6/2018).** 8 hrs OEL: 10 mg/m³ 8 hours. **CA Ontario Provincial (Canada, 1/2018).** TWA: 10 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada,**

Section 8. Exposure controls/personal protection

	7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
None.	

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : White.

Odor : Not available.

Odor threshold : Not available.

pH : 9.1

Melting point/freezing point : Not available.

Boiling point/boiling range : 100°C (212°F)

Flash point : Closed cup: >93.3°C (>199.9°F)

Section 9. Physical and chemical properties

Evaporation rate : 0.09 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 2.3 kPa (17.5 mm Hg) [at 20°C]

Vapor density : 1 [Air = 1]

Relative density : 1.23

Solubility : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >0.205 cm^2/s (>20.5 cSt)

Molecular weight : Not applicable.

Aerosol product

Heat of combustion : 0.705 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Amorphous Silica	Eyes - Mild irritant	Rabbit	-	24 hours 25 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Amorphous Silica	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Section 14. Transport information

Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Proper shipping name : Not available.

Ship type : Not available.

Pollution category : Not available.

Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 5-Chloro-2-methylisothiazolinone

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

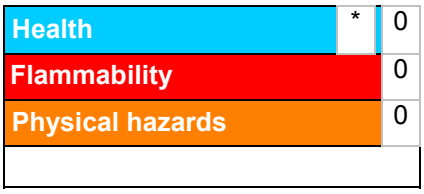
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method

History

Date of printing : 5/24/2019

Date of issue/Date of revision : 5/24/2019

Date of previous issue : 4/11/2019

Version : 11.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Bid #PSUT-19-04 - Metal Overhang For Wastewater Treatment Plant BCR Building IFB

Time Left	Bid has ended.		
Bid Started	Jun 25, 2019 4:52:53 PM EDT	**Notifications**	Report (Bidder Activity)
Bid Ended	This bid closed on Jul 23, 2019 2:00:00 PM EDT	**# of suppliers that viewed**	40 (View)
Agency Information	City of Pembroke Pines, FL (view agency's bids)	**Q & A**	Questions & Answers Questions: 1 Q&A Deadline: Jul 11, 2019 8:30:00 PM EDT
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		
Pre-Bid Conference(s)	Jul 9, 2019 10:00:00 AM EDT Attendance is mandatory Location: The City of Pembroke Pines Wastewater Treatment Plant, 13985 Pembroke Road, Pembroke Pines FL 33027. All vendors will be required to complete Attachment G "Mandatory Pre-Bid Meeting Form" at the meeting and submit it as part of their proposal to show proof of attendance to the mandatory meeting. Transcript Attendance		
Copy Bid	Click here to copy the bid and relist it as a new bid		
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

Bid Comments

Contract Duration	One Time Purchase
Contract Renewal	Not Applicable
Prices Good for	90 days
Budgeted Amount	$0.00 (change)
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 âBID 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

The City of Pembroke Pines is seeking proposals from qualified firms to construct a metal overhang at the Wastewater Treatment Plant BCR Building.

Such overhang is necessary for the proper handling of the solids discharge, protecting the material from the elements as they are loaded into the transportation vehicle for final destination.

Added on Jul 1, 2019:
Addendum #1: Please review the documents included in Attachment T.

Documents

Select All | Select None | Download Selected

- 1. PSUT-19-04 Metal Overhang for WWTP BCR Building.pdf [download]
- 2. Attachment A - Contact Information Form.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 - Specimen Contract - Construction Agreement 2018-10-25.pdf [download]
- 7. Attachment F - References Form [download]
- 8. Attachment G - Mandatory Pre-Bid Site Visit Confirmation.pdf [download]
- 9. Attachment H - Standard Release of Lien.pdf [download]
- 10. Attachment I - Project Manual.pdf [download]
- 11. Attachment J - Architectural Construction Documents.pdf [download]
- 12. Attachment K_S101 - GENERAL STRUCTURAL NOTES SS.pdf [download]
- 13. Attachment L_S102 - WIND DESIGN DATA AND LOAD SCHEDULE SS.pdf [download]
- 14. Attachment M_S200 - DEMOLITION PLAN SS.pdf [download]
- 15. Attachment N_S201 - FOUNDATION PLAN SS.pdf [download]
- 16. Attachment O_S202 - ROOF FRAMING PLAN SS.pdf [download]
- 17. Attachment P_S301 - TYPICAL DETAILS SS.pdf [download]
- 18. Attachment R_S401 - SECTIONS AND DETAILS SS.pdf [download]
- 19. Attachment S_S501 - WALL ELEVATIONS SS.pdf [download]
- 20. PSUT-19-04 Addendum 1.pdf [download]
- 21. Attachment T - Addendum 1.pdf [download]
- 22. PSUT-19-04 - Signed Pre-Bid Attendance Sheet - 7.9.2019.pdf [download]

= Included in Bid Packet = Excluded from Bid Packet

Items

Item	Title	Offers	
PSUT-19-04--01-01	Project Cost	Y	Info
PSUT-19-04--01-02	Cost to Provide Payment and Performance Bond	Y	Info

Addendum #1 - Made On Jul 1, 2019 10:32:27 AM EDT

Description/Bid Comments (Information was added)

New Documents
PSUT-19-04 Addendum 1.pdf
Attachment T - Addendum 1.pdf

Addendum #2 - Made On Jul 9, 2019 1:13:30 PM EDT

New Documents PSPW-19-07 - Signed Pre-Bid Attendance Sheet - 7.8.2019.pdf

Addendum #3 - Made On Jul 9, 2019 2:27:14 PM EDT

New Documents PSUT-19-04 - Signed Pre-Bid Attendance Sheet - 7.9.2019.pdf

Removed Documents PSPW-19-07 - Signed Pre-Bid Attendance Sheet - 7.8.2019.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

Question and Answers for Bid #PSUT-19-04 - Metal Overhang for Wastewater Treatment Plant BCR Building

Create New Question

Question Deadline: Jul 11, 2019 8:30:00 PM EDT

Overall Bid Questions

Question 1

Please note the incorrect prebid sign in was uploaded for this project. **(Submitted: Jul 9, 2019 1:54:04 PM EDT)**

Answer

edit

- The incorrect sheet has been deleted and the correct document has been uploaded. **(Answered: Jul 9, 2019 2:27:53 PM EDT)**

Add to Answer:

Submit