



Emergency Backup Power for City Hall

Invitation for Bids # PSPW-19-08

General Information		
Project Cost Estimate	\$900,000	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 September 23, 2019 at Pembroke Pines City Hall, South East Corner 601 City Center Way Pembroke Pines, FL 33025	See Section 1.8
Question Due Date	September 30, 2019	See Section 1.8
Proposals will be accepted until	2:00 p.m. on October 15, 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**



Table of Contents

SECTION 1 - INSTRUCTIONS.....	6
1.1 NOTICE.....	6
1.2 PURPOSE.....	6
1.3 SCOPE OF WORK.....	7
1.3.1 GENERAL INFORMATION.....	7
1.4 PROJECT COST ESTIMATE & TIMELINE.....	8
1.4.1 PERMITS.....	8
1.4.2 PERMIT ALLOWANCE.....	8
1.5 PROPOSAL REQUIREMENTS	8
1.5.1 Attachment A: Contact Information Form.....	9
1.5.2 Attachment B: Non-Collusive Affidavit.....	9
1.5.3 Attachment C: Proposer's Qualifications Statement	9
1.5.4 Attachment F: References Form	9
1.5.5 Attachment G: Mandatory Pre-Bid Meeting Form.....	10
1.5.6 Proposal Security (Bid Bond Form or Cashier's Check).....	10
1.6 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS	10
1.6.1 Vendor Information Form.....	11
1.6.2 Form W-9 (Rev. October 2018).....	11
1.6.3 Sworn Statement on Public Entity Crimes Form.....	11
1.6.4 Equal Benefits Certification Form	11
1.6.5 Vendor Drug-Free Workplace Certification Form	11
1.6.6 Scrutinized Company Certification.....	11
1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION	11
1.8 TENTATIVE SCHEDULE OF EVENTS	12
1.8.1 MANDATORY PRE-BID MEETING / SITE VISIT	12
1.9 SUBMISSION REQUIREMENTS	12
SECTION 2 - INSURANCE REQUIREMENTS.....	14
2.1 REQUIRED INSURANCE	15
2.2 REQUIRED ENDORSEMENTS	17
SECTION 3 - GENERAL TERMS & CONDITIONS.....	18
3.1 EXAMINATION OF CONTRACT DOCUMENTS	18
3.2 CONFLICT OF INSTRUCTIONS	18



3.3	ADDENDA or ADDENDUM	18
3.4	INTERPRETATIONS AND QUESTIONS	18
3.5	RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES	18
3.6	WARRANTIES FOR USAGE	19
3.7	BRAND NAMES.....	19
3.8	QUALITY	19
3.9	SAMPLES.....	19
3.10	DEVELOPMENT COSTS	19
3.11	PRICING.....	19
3.12	DELIVERY POINT.....	19
3.13	TAX EXEMPT STATUS	19
3.14	CONTRACT TIME	19
3.15	COPYRIGHT OR PATENT RIGHTS	20
3.16	PUBLIC ENTITY CRIMES	20
3.17	CONFLICT OF INTEREST	20
3.18	FACILITIES	20
3.19	ENVIRONMENTAL REGULATIONS.....	20
3.20	SIGNATURE REQUIRED.....	21
3.21	MANUFACTURER’S CERTIFICATION.....	21
3.22	MODIFICATION OR WITHDRAWAL OF PROPOSAL	21
3.23	PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS	21
3.24	RESERVATIONS FOR REJECTION AND AWARD.....	22
3.25	BID PROTEST	22
3.26	INDEMNIFICATION.....	22
3.27	DEFAULT PROVISION	22
3.28	ACCEPTANCE OF MATERIAL.....	23
3.29	LOCAL GOVERNMENT PROMPT PAYMENT ACT	23
3.30	SCRUTINIZED COMPANIES LIST	23
3.31	PUBLIC RECORDS; TRADE SECRET, PROPRIETARY AND CONFIDENTIAL SUBMITTALS	24
SECTION 4 - SPECIAL TERMS & CONDITIONS.....		25
4.1	PROPOSAL SECURITY.....	25
4.2	PAYMENT AND PERFORMANCE BONDS	25
4.3	OWNER’S CONTINGENCY	26



4.4	TAX SAVER PROGRAM	26
4.5	DAVIS-BACON & RELATED ACTS	26
4.6	RELEASE OF LIEN.....	27
4.7	SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLECTION AND DISPOSAL REQUIREMENTS	27
4.8	LOCAL, STATE, AND FEDERAL COMPLIANCE REQUIREMENTS	27
A.	STATE OF FLORIDA E-VERIFY	27
B.	ACCESS BY THE GRANTEE, SUBGRANTEE, FEDERAL GRANTOR AGENCY AND COMPTROLLER GENERAL.....	28
C.	FEDERAL CLEAN AIR AND WATER ACTS	28
D.	CONTRACT WORK HOURS AND SAFETY STANDARDS	28
E.	COMPLIANCE WITH THE COPELAND ANTI-KICKBACK ACT	28
F.	BUY AMERICAN ACT.....	28
G.	SUSPENSION AND DEBARMENT.....	28
H.	ANTI-LOBBYING	29
I.	EQUAL EMPLOYMENT OPPORTUNITY	30
J.	MINORITY / WOMEN’S / LABOR SURPLUS FIRMS PARTICIPATION.....	30



ATTACHMENTS

Attachment A: Contact Information Form

Attachment B: Non-Collusive Affidavit

Attachment C: Proposer's Qualifications Statement

Attachment D: Sample Insurance Certificate

Attachment E: Specimen Contract: **Construction Agreement**

Attachment F: References Form

Attachment G: Mandatory Pre-Bid/Site Visit Confirmation Form

Attachment H: Standard Release of Lien Form

Attachment I: Preliminary Drawings, 2250 Gallon Generator Fuel Tank

Attachment J: Electrical Drawings & Notes

Attachment K: Plumbing Drawings

Attachment L: Generator Plan & Section

Attachment M: Calculation Package

Attachment N: Generac 500KW MB500 Bi-Fuel

Attachment O: PSTS Transfer Switch Spec Sheet

Attachment P: Certification Regarding Lobbying, Debarment, Suspension, Etc.

Attachment Q: Homeland Security's E-Verify System Affirmation Statement

Standard Form LLL: Disclosure Form to Report Lobbying

Exhibit A: 2 CFR 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards

Exhibit B: FHWA 1273 - Required Contract Provisions Federal-Aid Construction Contracts



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 # PSPW-19-08 Emergency Backup Power for City Hall

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, October 15, 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 provide an emergency backup power system for city hall in accordance with the terms, conditions, and specifications contained in this solicitation.

This system will allow the city to expand EOC capabilities, power the kitchen to prepare meals and serve as a shelter for first responders.



1.3 SCOPE OF WORK

1. Contractor shall, with proper care, disconnect the existing generator and associated equipment for future use by the city.
2. Contractor shall demo existing generator slab and modify the site as needed for the new equipment.
3. Contractor shall provide new stand-by generators, ATS and supplementary equipment at City Hall per the attached engineered drawings and specifications; to include gas connections, concrete slab and enclosures.
4. Contractor is responsible for verifying all field measurements and conditions.
5. All equipment must be installed as per all governing code requirements.
6. All fuel for testing and top off will be provided for by the City.

1.3.1 GENERAL INFORMATION

- The minimum experience required as a licensed Electrical Contractor and/or General Contractor is 5 years for this project.
- Contractor shall provide all materials, labor, equipment, and any other necessary items required for a complete turn-key installation.
- Contractor shall, besides the attached engineered drawings and specs, provide all required documents, like submittals, densities and NOA's necessary to obtain a permit and for normal project execution.
- Contractor shall provide all testing, manufacturer warranties, and certifications.
- The successful Bidder shall employ a competent English speaking 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 damaged by the contractor once the project is completed. Site shall be secured, 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 required for the nature of the project, with approval of the Project Manager.
- Contractor shall limit their use on the premises for work and storage, and to allow for Owner's Occupancy.
- Contractor shall coordinate use of premises under direction of owner representative, assume full responsibility for protection and safe keeping of products under this contract stored on site, and move any stored products under Contractor's control which interfere with operations of the Owners or separate contractor.



1.4 PROJECT COST ESTIMATE & TIMELINE

This project is estimated to cost approximately \$900,000.00, 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)
Engineering	City of Pembroke Pines Engineering Department	4.9136% of construction costs
Building	City of Pembroke Pines Building Department (Calvin, Giordano & Associates, Inc.)	Construction costs greater than \$2,500 up to \$1,000,000 = 2.96%
	Broward County DEP	TBD

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 # PSPW-19-08 Emergency Backup Power for City Hall**" 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 Equal Benefits Certification Form

1.6.5 Vendor Drug-Free Workplace Certification Form

1.6.6 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)	September 10, 2019
Mandatory Pre-Bid Meeting	10:00 a.m. on September 23, 2019
Question Due Date	September 30, 2019
Anticipated Date of Issuance for the Addenda with Questions and Answers	October 3, 2019
Proposals will be accepted until	2:00 p.m. on October 15, 2019
Proposals will be opened at	2:30 p.m. on October 15, 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 **September 23, 2019 at 10:00 a.m.** Meeting location will be at the Pembroke Pines City Hall Building, South East Corner, located at 601 City Center Way, Pembroke Pines, FL 33025.

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 October 15, 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 # PSPW-19-08 Emergency Backup Power for City Hall**” 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 policies 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 the 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 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 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 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 BIDS SYNC 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 # PSPW-19-08, Emergency Backup Power for City Hall**" 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 DAVIS-BACON & RELATED ACTS

If construction, alternation or repair of public buildings or public works project is **funded or assisted under one or more Federal statute**, the Davis-Bacon prevailing wage provisions may apply to the project if any of the applicable statutes requires payment of Davis-Bacon wage rates.

The Davis-Bacon Act requires that each contract over \$2,000 to which the United States or the District of Columbia is a party for the construction, alteration, or repair of public buildings or public works shall contain a clause setting forth the minimum wages to



be paid to various classes of laborers and mechanics employed under the contract. Under the provisions of the Act, contractors or their subcontractors are to pay workers employed directly upon the site of the work no less than the locally prevailing wages and fringe benefits paid on projects of a similar character.

In addition to the Davis-Bacon Act itself, Congress has added prevailing wage provisions to approximately 60 statutes which assist construction projects through grants, loans, loan guarantees, and insurance. These "related Acts" involve construction in such areas as transportation, housing, air and water pollution reduction, and health. Davis-Bacon wage determinations are to be used in accordance with the provisions of Regulations, 29 CFR Part 1, Part 3, and Part 5.

4.6 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.

4.7 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 solid 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.

4.8 LOCAL, STATE, AND FEDERAL COMPLIANCE REQUIREMENTS

Contractor agrees to comply, subject to applicable professional standards, with the provisions of any and all applicable Federal, State, County and City orders, statutes, ordinances, rules and regulations which may pertain to the Services required under the Agreement, including but not limited to:

A. STATE OF FLORIDA E-VERIFY

Contractor acknowledges that the City may be utilizing the Contractor's services for a project that is funded in whole or in part by State funds pursuant to a contract between the City and a State agency. Contractor shall be responsible for complying with the E-Verify requirements in the contract and using the U.S. Department of Homeland Security's E-Verify system (per the State of Florida Executive Order Number 11-02 "Verification of Employment Status") to verify the employment eligibility of: (a) all persons employed during the contract term by the Contractor to perform employment duties within Florida; and (b) all persons (including subcontractors) assigned by the Contractor to perform work pursuant to the contract, during the Agreement term. The Contractor



is also responsible reporting to the City any required information to the City. Contractor acknowledges that the terms of this paragraph are material terms, the breach of any of which shall constitute a default under the Agreement.

B. ACCESS BY THE GRANTEE, SUBGRANTEE, FEDERAL GRANTOR AGENCY AND COMPTROLLER GENERAL

The Contractor shall allow access by the grantee, sub grantee, Federal grantor agency and Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers, and records of the Contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts and transcriptions.

C. FEDERAL CLEAN AIR AND WATER ACTS

Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387), and will report violations to FEMA and the Regional Office of the Environmental Protection Agency (EPA).

D. CONTRACT WORK HOURS AND SAFETY STANDARDS

The Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3702-3704) as supplemented by Department of Labor regulations (29 CFR Part 5).

E. COMPLIANCE WITH THE COPELAND ANTI-KICKBACK ACT

(1) Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may

be applicable, which are incorporated by reference into this contract.

(2) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

(3) Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

F. BUY AMERICAN ACT

The Contractor shall comply with all applicable standards, orders, or requirements regarding the Buy American Act. (42 U.S.C 5206 - ex-tended until 2023).

G. SUSPENSION AND DEBARMENT

Non-federal entities are subject to the non-procurement debarment and suspension regulations implementing Executive Orders 12549 and 12689, 2 CFR part 180. These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs or activities.

a. This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).



b. The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

c. This certification is a material representation of fact relied upon by the City. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the City, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

d. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

H. ANTI-LOBBYING

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

This provision is applicable to all Federal-aid construction contracts and to all related sub-contracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

I. EQUAL EMPLOYMENT OPPORTUNITY

The Contractor shall comply with Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR Chapter 60). (All construction contracts awarded in excess of \$10,000 by grantees and their contractors or subgrantees).

All contractors and subcontractors performing work in connection with this Contract shall provide equal opportunity for employment because of race, religion, color, age, sex, national origin, sexual preference, disability or marital status. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in a conspicuous place available for employees and applicants for employment, such notices as may be required by any authority having jurisdiction over the Work setting forth the provisions of the nondiscrimination law.

J. MINORITY / WOMEN'S / LABOR SURPLUS FIRMS PARTICIPATION

In accordance with the requirements as stated in C.F.R. 200.321, the City encourages the active participation of minority businesses, women's business enterprises and labor surplus area firms as a

part of any subsequent agreement whenever possible.

If subcontracts are to be let, through a prime contractor, that contractor is required to take the affirmative steps listed in items (1) through (5) below.

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.



City of Pembroke Pines

Attachment A

CONTACT INFORMATION FORM

IN ACCORDANCE WITH “PSPW-19-08” titled “Emergency Backup Power for City Hall” 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 <input type="checkbox"/>
--	------------------------------

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 <input type="checkbox"/>
Attachment B - Non-Collusive Affidavit	Yes <input type="checkbox"/>
Attachment C - Proposer's Completed Qualification Statement	Yes <input type="checkbox"/>
Attachment F - References Form	Yes <input type="checkbox"/>

Attachment G - Mandatory Pre-Bid Meeting Form	Yes <input type="checkbox"/>
Does your proposal exceed \$200,000 for this construction project? 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)	Yes <input type="checkbox"/>

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 <input type="checkbox"/>
Form W-9 (Rev. October 2018)	Yes <input type="checkbox"/>
Sworn Statement on Public Entity Crimes Form	Yes <input type="checkbox"/>
Local Vendor Preference Certification	Yes <input type="checkbox"/>
Local Business Tax Receipts	Yes <input type="checkbox"/>
Veteran Owned Small Business Preference Certification	Yes <input type="checkbox"/>
Equal Benefits Certification Form	Yes <input type="checkbox"/>
Vendor Drug-Free Workplace Certification Form	Yes <input type="checkbox"/>
Scrutinized Company Certification	Yes <input type="checkbox"/>

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 percentage of the total contract amount	To be Submitted Via BidSync

*City of Pembroke Pines***Attachment B****NON-COLLUSIVE AFFIDAVIT**

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

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

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

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

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

Printed Name/Signature

Title

Name of Company



City of Pembroke Pines

Attachment C

PROPOSER'S QUALIFICATIONS STATEMENT

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

PROPOSER'S Name and Principal Address:

PROPOSER'S License Number:

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

Number of years your organization has been in business

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

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

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

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

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

At what address was that business located?

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

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

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

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

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

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

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

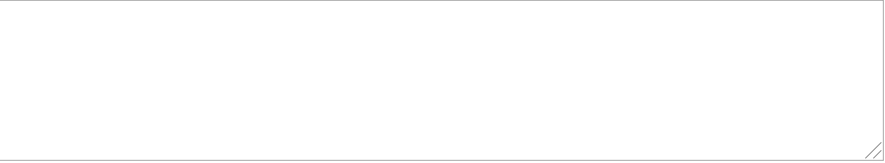
List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute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



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



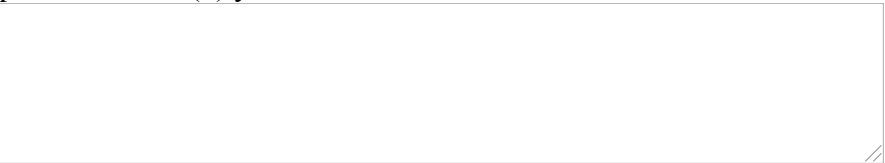
Are you an Original provider sales representative distributor, broker, manufacturer other, of the commodities/services proposed upon? If other than the original provider, explain below.



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



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



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

(Company Name)

(Printed Name/Signature)

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD[YY])

PRODUCER

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

INSURERS AFFORDING COVERAGE

INSURED

YOUR COMPANY NAME HERE

INSURER A:

INSURER B:

INSURER C:

INSURER D:

INSURER E:

Companies providing coverage**COVERAGES**

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

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DDYY)	POLICY EXPIRATION DATE (MM/DDYY)	LIMITS								
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> policy <input type="checkbox"/> project <input type="checkbox"/> loc	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Must Include General Liability </div>			EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$								
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				<div style="border: 1px solid black; padding: 10px; text-align: center;"> SAMPLE CERTIFICATE </div>								
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO			AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$									
	EXCESS LIABILITY OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$								
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				<table border="1"> <tr> <td>WC STATU-TORY LIMITS</td> <td>OTH-ER</td> </tr> <tr> <td>E.L. EACH ACCIDENT</td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - EA EMPLOYEE</td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - POLICY LIMIT</td> <td>\$</td> </tr> </table>	WC STATU-TORY LIMITS	OTH-ER	E.L. EACH ACCIDENT	\$	E.L. DISEASE - EA EMPLOYEE	\$	E.L. DISEASE - POLICY LIMIT	\$
WC STATU-TORY LIMITS	OTH-ER												
E.L. EACH ACCIDENT	\$												
E.L. DISEASE - EA EMPLOYEE	\$												
E.L. DISEASE - POLICY LIMIT	\$												
	OTHER												

Certificate must contain wording similar to what appears below

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCL

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

CERTIFICATE HOLDER

ADDITIONAL INSURED; INSURER LETTER:

CANCELLATION

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

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION

MAIL 30 DAYS WRITTEN
 LEFT.

City Must Be Named as Certificate Holder

AUTHORIZED REPRESENTATIVE



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."

WITNESSETH:

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 CONTRACTOR 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

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: **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: **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: **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: **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:



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.

PRE-BID ATTENDANCE SHEET

Date: Monday, September 23 at 10:00 a.m.

Proposal/Bid #: PSPW-19-08, Emergency Backup Power for City Hall

Company Name	Address	Representative Name	E-Mail	Phone Number	Signature
Gilmore Electric	2875 Jupiter Lake Dr #1800 Jupiter, FL 33458	Josh Miller Danny Loveland	joshm@gilmoreelectric.com	561-744-8008	
ZABATTI POWER SYSTEMS	4612 HWY AVE SACRAMENTO, CA 95821	KINTESH PATEL	KINTESH.PATEL@ZABATTI.COM	(901) 476-7446	
//	//	Tom Tietje	Tom.Tietje@Zabatti.com	786-390-7888	
EAU GALLIE ELECTRIC	2012 AURORA RD MELBOURNE FL 32935	JENNIFER AUSTIN	estimating@eg-electric.com	(321) 259-2885	
DYNALECTRIC CO.	2501 SW 160 AVE SUITE 500 MIAMI, FL 33127	FRANK AUER	FAUER@DYNA-FL.COM	786-554-2662	
C DAVIS ELECTRIC	1701 SW 100th MIAMI, FL 33156	BRYAN SCHULTZ	BSCHULTZ@CDAVIS-ELECTRIC.COM	954-658-1630	
ALL FLORIDA CONTRACTING INC	3814 NW 126 AVE CORAL SPRING, FL 33065	MICHAEL COX	MCOX@AFCS-FL.COM	954-775-7767	
Juliana Enterprises, Inc	1520 NW 65th Ave #3 Plantation, FL 33324	Bennet Berhane	benberhane1952@gmail.com	786-208-3493	
Power Pro Electric	1520 NW 65th Ave #3 Plantation, FL 33324	Brendan Cortez	ben1953@gmail.com	986-208-3493	
LS Power	1181 Sawgrass Corp. PKWY Sunrise	Steven Newland	S.Newland@LSPower.net	561-758-8838	
All - Site Construction, Inc.	2515 E. Tamarind Ave West Palm Beach, FL 33404	Felicia - Site Turner	felicia@allsiteinc.net	561.849.1110	
R&D Electric Inc	7447 NW 48th MIAMI FL 33166	RAFAEL Echarri	Rafael@RDElectricinc.com	305 403-7841 305 303 6450	

ACF S.S

4830 KINGSPONTE
PKWY.
OMAHA, NE

JOHN PEDERSON

J.PEDERSON@

ACF POWER.COM

321-355-
8584

CANSECO ELECTRICAL
CONTRACTORS, INC

7175 SW 43rd ST
MIAMI FL 33155

MIGUEL MARTINEZ

MMARTINEZ@CANSECOELECTRIC.COM

305 265 9509

Guardian Fueling Tech. 6500 NW 15th Ave #300
Pompano, FL 33069
JNAVARRO@GuardianFuelTech.com
954 814-3682

José NAVARRO

ABC Electric, Inc.

2660 W 79th St
Hialeah, FL 33016

Tomas Corvelo 305 8232280
agc@agcelectric.com





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:

DRAWINGS PREPARED FOR:
GENSET SERVICES
(PEMBROKE PINES CITY HALL)
2,250 GALLON - UL# 142 SEALED SECONDARY
QU# 69854REV1 - 10/1/2018



PRELIMINARY

SPECIAL INSTRUCTIONS

1	INSTALLATION OF PLUGS REQUIRED AND ONE VACUUM GAUGE TO PULL INTERSTITIAL AREA TO MAX VACUUM. DOCUMENTATION OF VACUUM READINGS PRIOR TO SHIPMENT. PACKAGE SECONDARY VENT AND SECONDARY TANK ACCESSORIES TO SHIP LOOSE WITH TANK. TANK TO REMAIN UNDER VACUUM UNTIL REACHING JOBSITE. END USER RESPONSIBLE FOR INSTALLATION OF ACCESSORIES
2	FDEP PACKAGE - 7-1/2 GALLON FILL/SPILL BUCKET AND HIGH FUEL SWITCH SET @ 90%
3	OVERFILL PREVENTION VALVE (2" CAMLOK CONNECTOR) INSTALLED IN FILL/SPILL BUCKET
4	INSTALL CHECK VALVE ON ENGINE SUPPLY LINE
5	PROVIDE AND INSTALL GENERAC COMPATIBLE FUEL SENDER
6	FOUR SETS OF ALUMINUM STAIRS WITH MOLDED FIBERGLASS DECKING
7	MOUNT GENSET AND CONNECT FUEL LINES
8	NORMAL VENT EXTEND TO 12' ABOVE GRADE
9	THREE YEAR WARRANTY
10	STAMPED PE CALCULATIONS FOR BASIC ENCLOSURE TO TANK AND TANK TO PAD ANCHORAGE BASED ON WIND LOAD TO BE SUPPLIED BY FIDELITY MANUFACTURING'S STATE OF FLORIDA PROFESSIONAL ENGINEER. F.D.E.P. REQUIREMENTS WILL BE CERTIFIED (NOT INCLUDING STAMPED AS BUILT DRAWINGS).

TANK NOTES:

1. ALL FITTINGS TO BE CARBON STEEL WELD FLANGES (UNLESS OTHERWISE NOTED)
2. EXTERIOR FINISH: "BLACK" SPECTRACRON® 390 SERIES 2K POLYURETHANE ENAMEL
3. INNER TANK DIMENSIONS: 214.000"L X 60.875"W X 44.063"H
4. APPROXIMATE TANK VOLUME: 2,250 GALLONS
5. APPROXIMATE TANK WEIGHT: 4,750 LBS.
6. EMERGENCY VENTING CAPACITY: 257 SQ. FT.

NOTES:

1. GENERATOR: GENERAC MB500 15.2L FCTY LVL 2
DIMENSIONS: 207.4"L X 70.9"W X 114.1"H
WEIGHT: 12,139 LBS.
DRAWING #: 0K5873; 0K1606C
2. TOTAL PACKAGE WEIGHT: 16,889 LBS. EACH

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	ASSEMBLY VIEW W/ PLATFORMS
3	ASSEMBLY VIEW
4	FUEL TANK
5	OUTSIDE PLATFORM
6	MIDDLE PLATFORM
7	SUGGESTED PAD LAYOUT

REVISIONS:

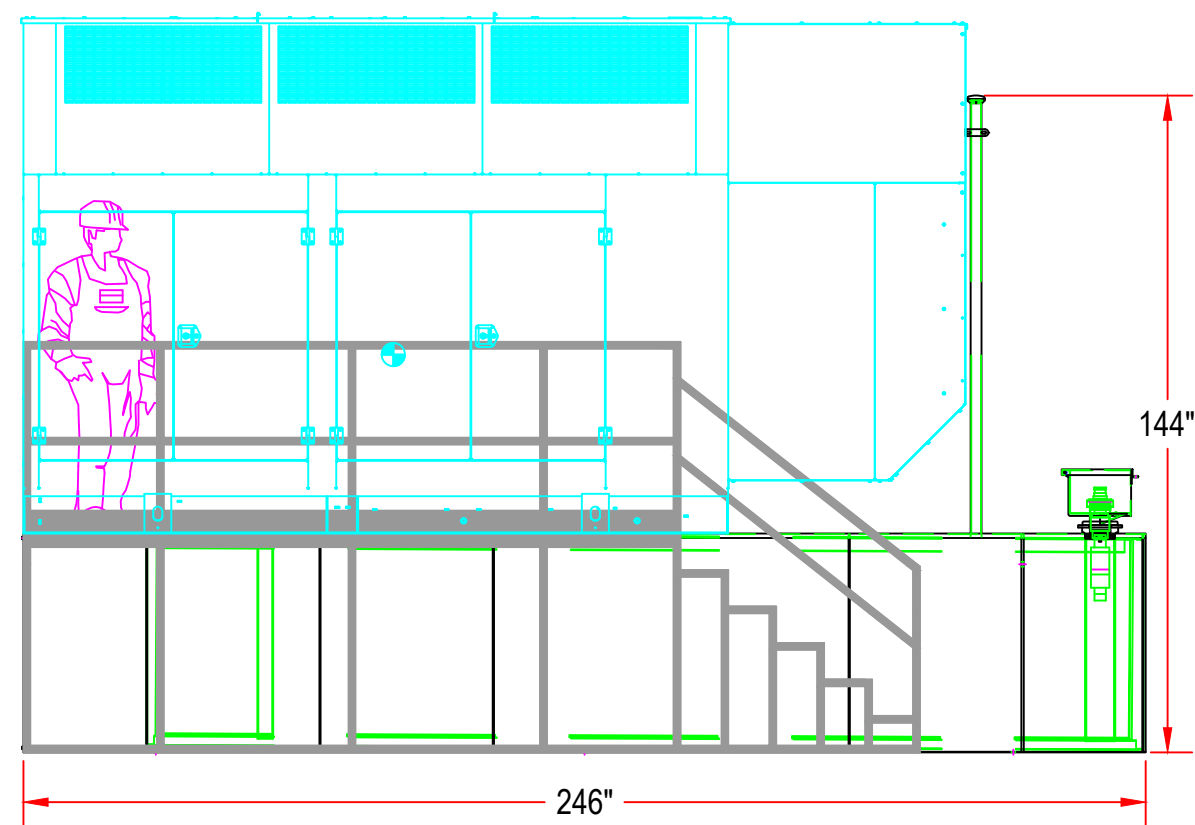
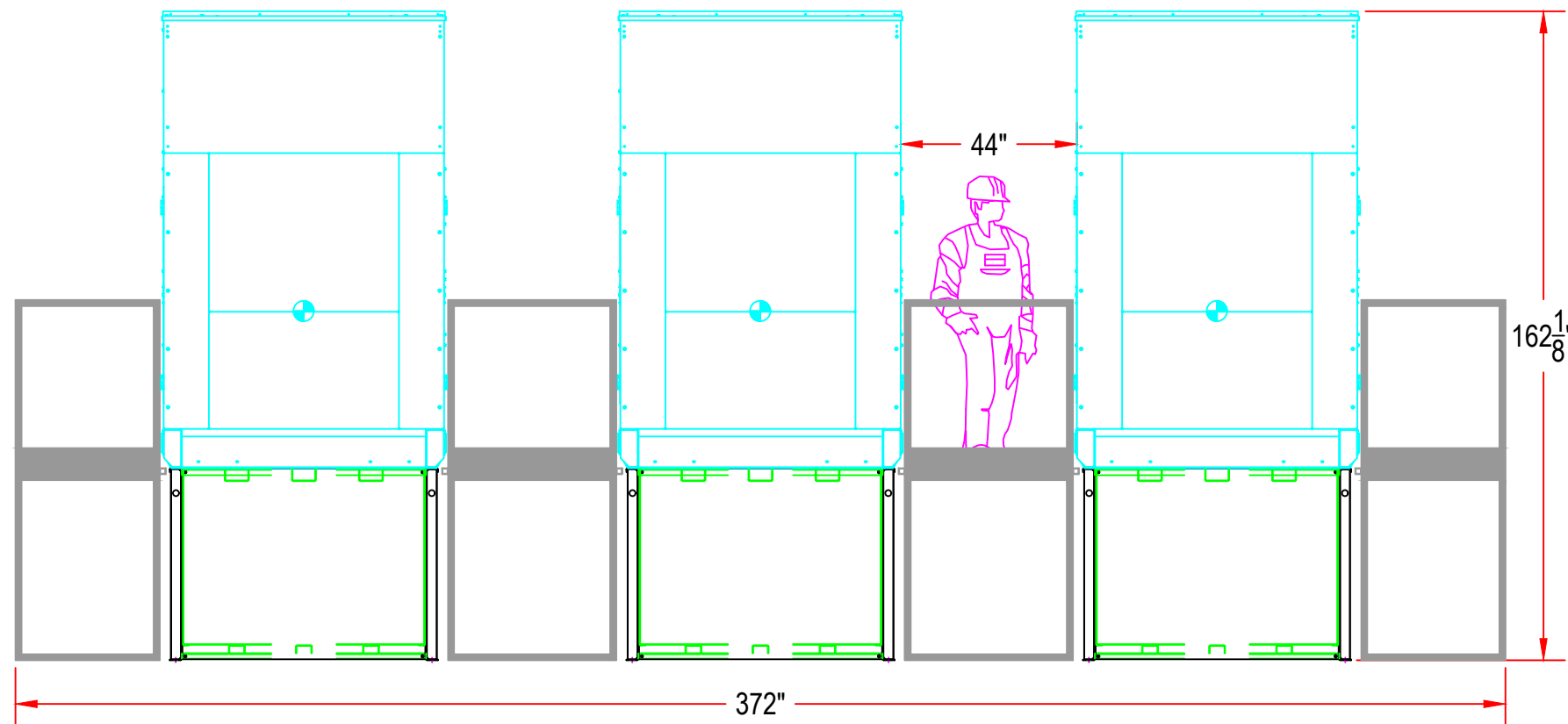
REVISION LEVEL	REVISION DESCRIPTION	SHEET OF CHANGE(S)	ENGINEER	DATE
00	INITIAL RELEASE		M.D.S.	10/1/2018
01				
02				
03				
04				

DRAWING ACCEPTED FOR PRODUCTION

SIGNATURE

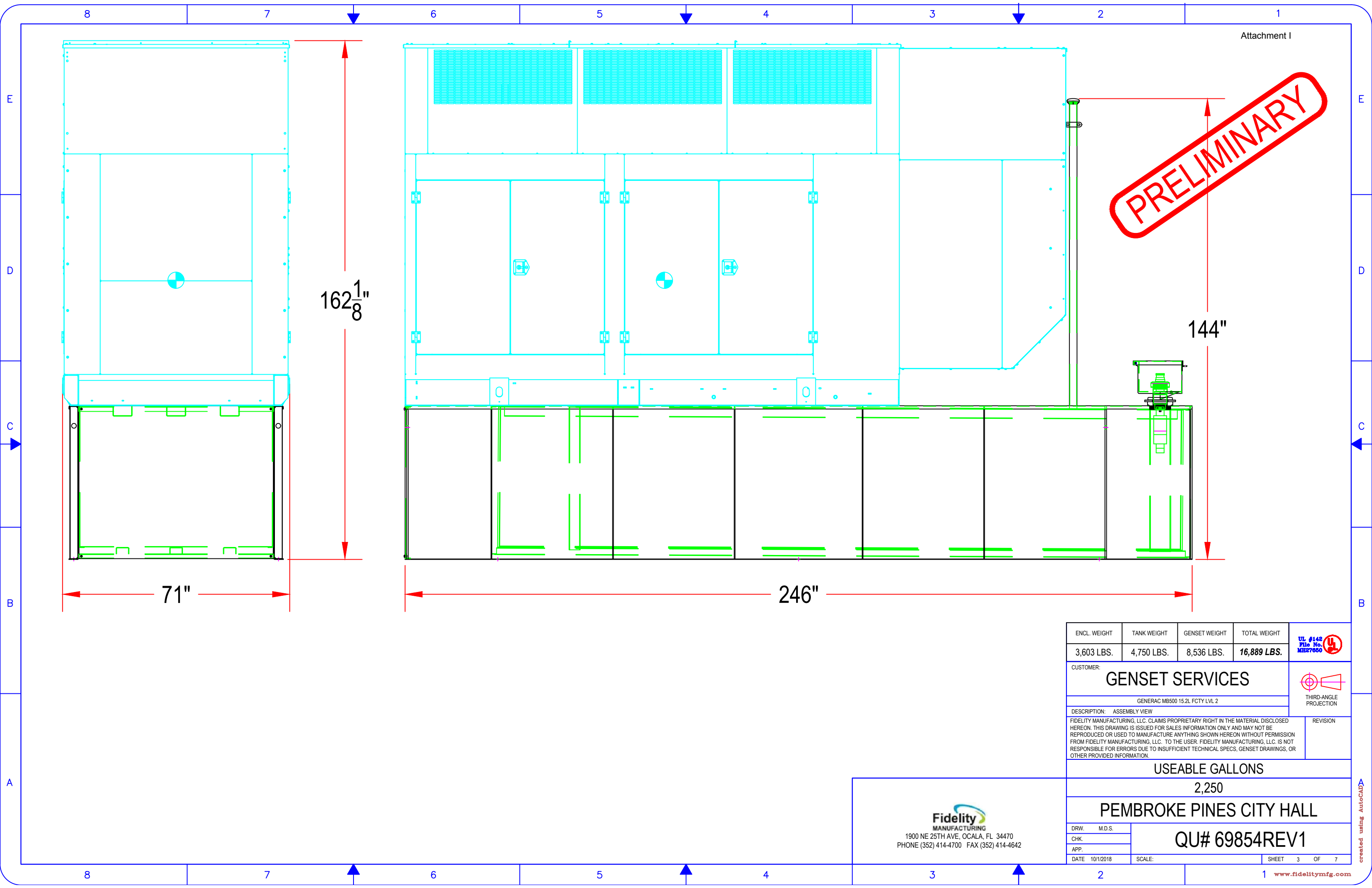
PRINT NAME-TITLE DATE / /

PRELIMINARY

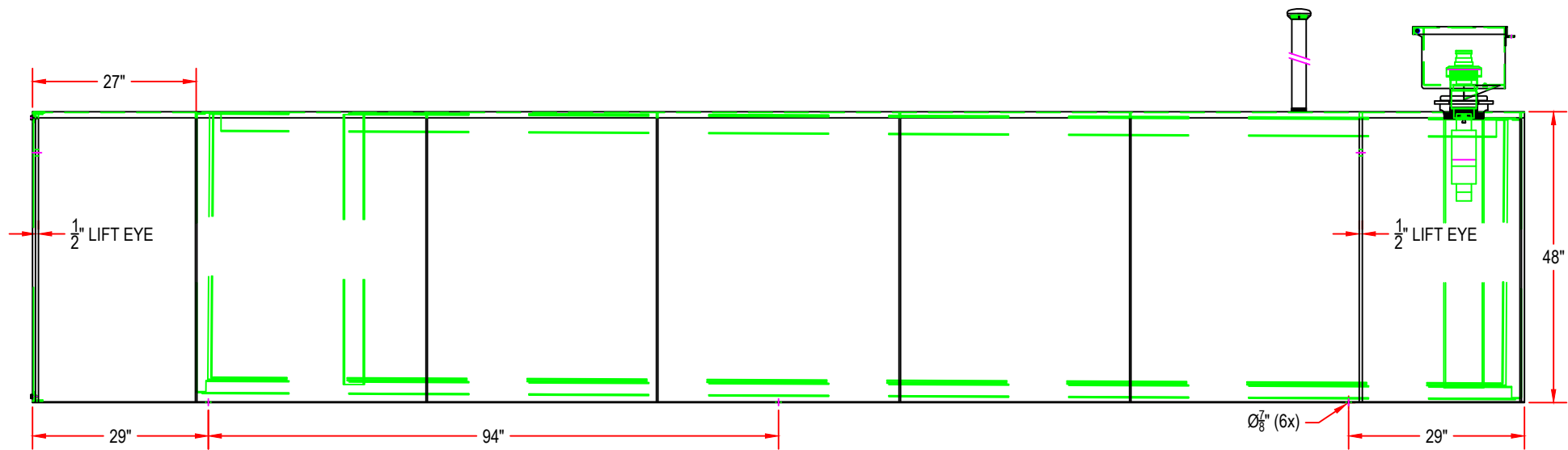
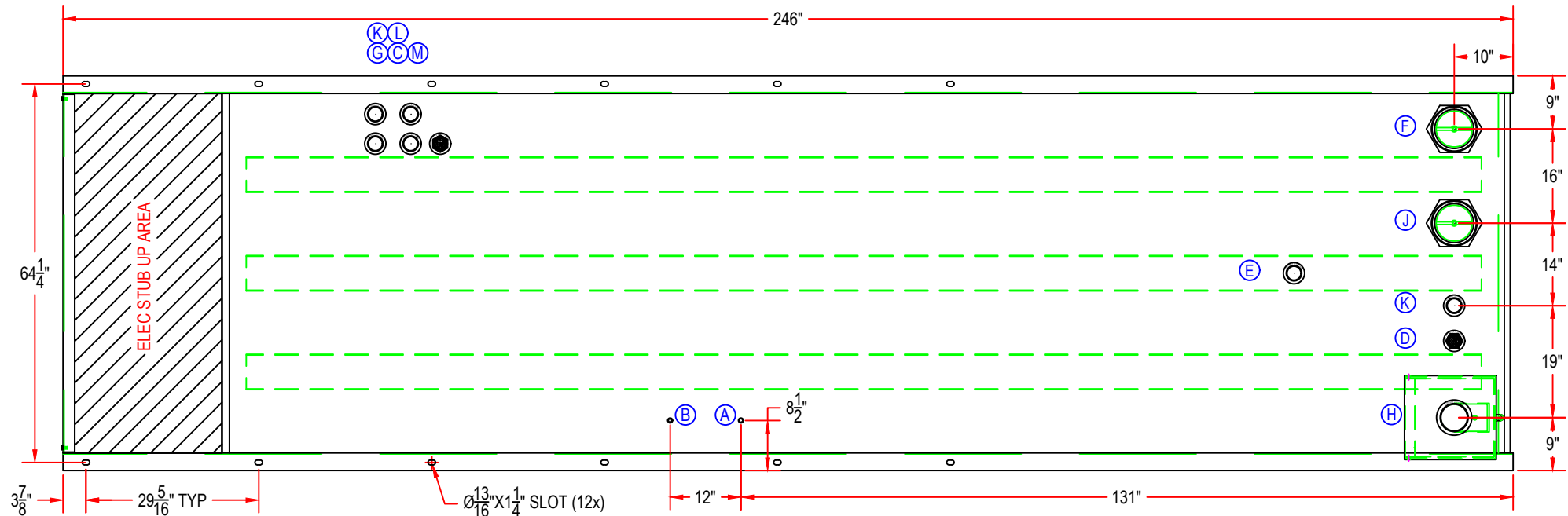


		UL #142 File No. MB27660	
CUSTOMER:		GENSET SERVICES	
		GENERAC MB500 15.2L FCTY LVL 2	
DESCRIPTION:		ASSEMBLY VIEW W/ PLATFORMS	
FIDELITY MANUFACTURING, LLC. CLAIMS PROPRIETARY RIGHT IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING IS ISSUED FOR SALES INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION FROM FIDELITY MANUFACTURING, LLC. TO THE USER, FIDELITY MANUFACTURING, LLC. IS NOT RESPONSIBLE FOR ERRORS DUE TO INSUFFICIENT TECHNICAL SPECS, GENSET DRAWINGS, OR OTHER PROVIDED INFORMATION.		REVISION	
USEABLE GALLONS			
		2,250	
		PEMBROKE PINES CITY HALL	
		QU# 69854REV1	
DRW.	M.D.S.		
CHK.			
APP.			
DATE	10/1/2018	SCALE:	SHEET 2 OF 7

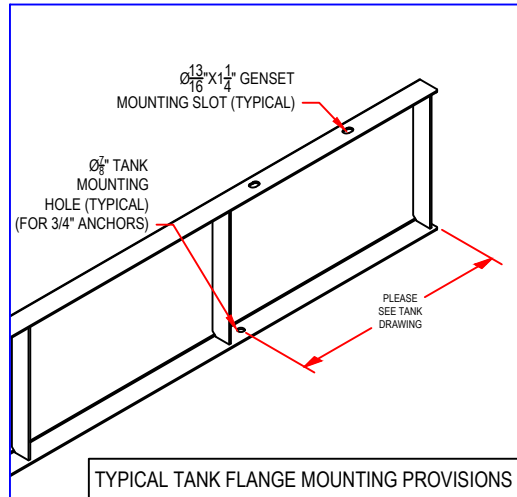
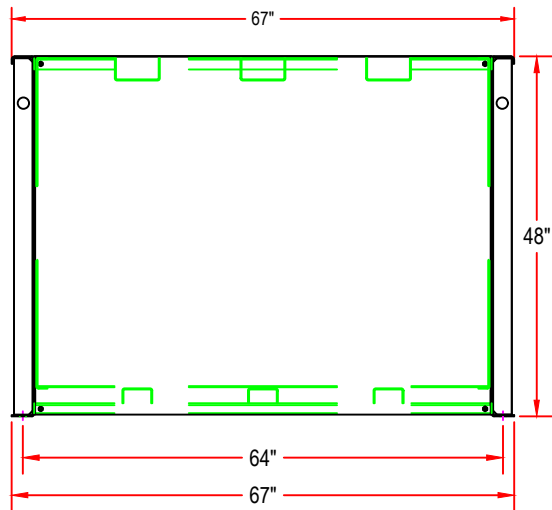
Fidelity
MANUFACTURING
1900 NE 25TH AVE, OCALA, FL 34470
PHONE (352) 414-4700 FAX (352) 414-4642



PRELIMINARY


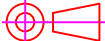


FITTING	DESCRIPTION	LENGTH
A	1/2" NPT FUEL SUPPLY DROP TUBE	45-5/16"
B	1/2" NPT FUEL RETURN DROP TUBE	45-5/16"
C	2" NPT LOW FUEL SWITCH SET AT 25%	32-7/8"
D	1-1/2" NPT FUEL GAUGE	43-1/2"
E	2" NPT NORMAL VENT EXTENDED 12' ABOVE GRADE	
F	6" NPT EMERGENCY VENT (PRIMARY)	
G	2" NPT BASIN DRAIN AND LEAK DETECTION SWITCH	
H	4" NPT 7-1/2 GALLON LOCKABLE FILL/SPILL BUCKET WITH OPV SET AT 95%	
J	6" NPT EMERGENCY VENT (SECONDARY)	
K	2" NPT SPARE PORT (QTY 4)	
L	2" NPT HIGH FUEL SWITCH SET AT 90%	4-3/8"
M	1-1/2" NPT GENERAC COMPATIBLE FUEL SENDER	

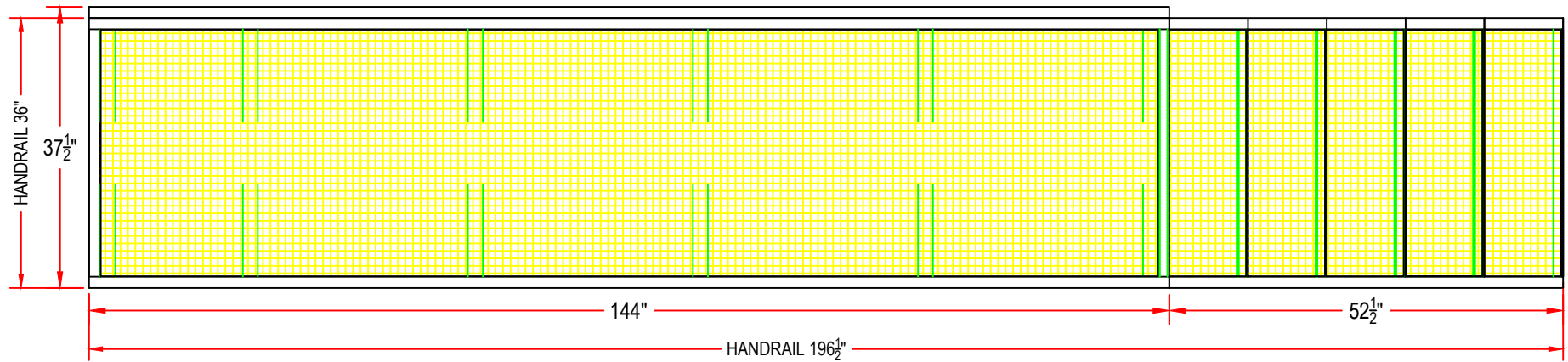


TYPICAL TANK FLANGE MOUNTING PROVISIONS

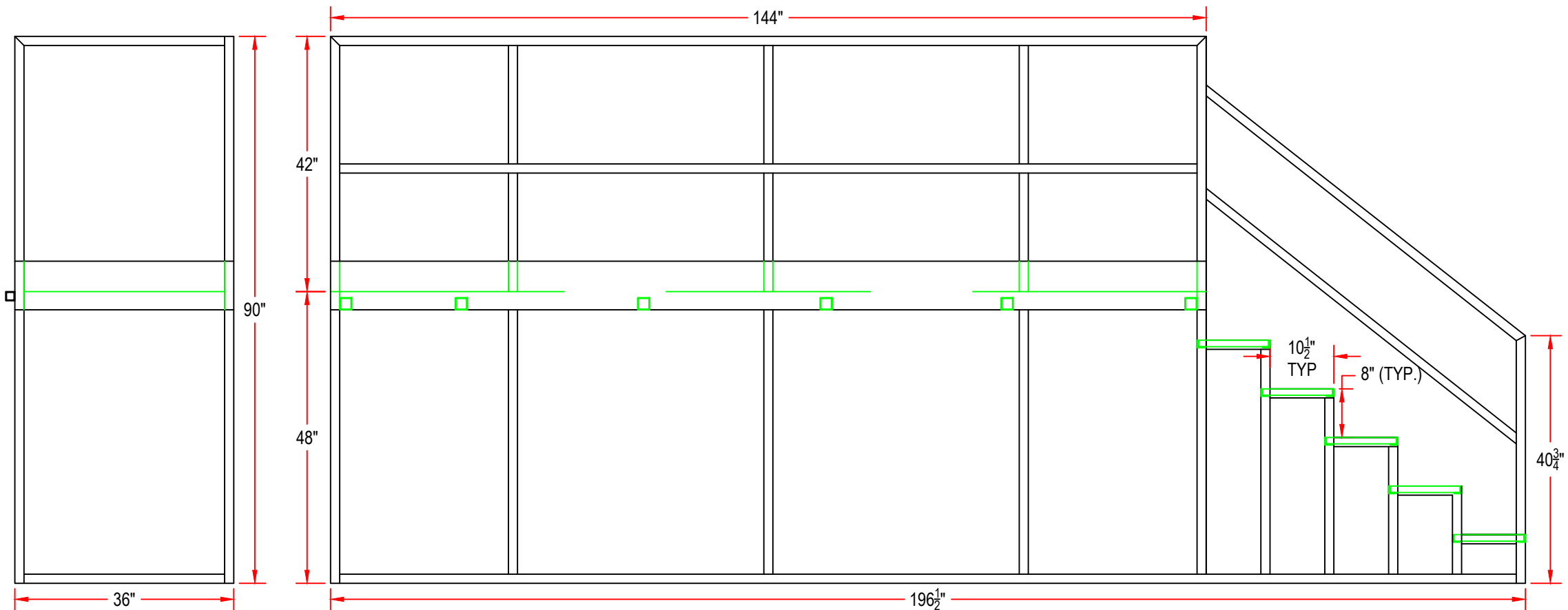
Fidelity
MANUFACTURING
1900 NE 25TH AVE, OCALA, FL 34470
PHONE (352) 414-4700 FAX (352) 414-4642

FDEP INFORMATION					
1	TANK EQ# 497				
2	FILL/SPILL CONTAINMENT EQ# 778				
3	HIGH FUEL SWITCH AND LEAK DETECTION SWITCH EQ# 817				
4	OVERFILL PREVENTION VALVE EQ# 851				
ENCL. WEIGHT		TANK WEIGHT	GENSET WEIGHT	TOTAL WEIGHT	UL #142 File No. MB27650 
3,603 LBS.		4,750 LBS.	8,536 LBS.	16,889 LBS.	
CUSTOMER:					 THIRD-ANGLE PROJECTION
GENSET SERVICES					
GENERAC MB500 15.2L FCTY LVL 2					
DESCRIPTION: UL# 142 SEALED SECONDARY					
FIDELITY MANUFACTURING, LLC. CLAIMS PROPRIETARY RIGHT IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING IS ISSUED FOR SALES INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION FROM FIDELITY MANUFACTURING, LLC. TO THE USER. FIDELITY MANUFACTURING, LLC. IS NOT RESPONSIBLE FOR ERRORS DUE TO INSUFFICIENT TECHNICAL SPECS, GENSET DRAWINGS, OR OTHER PROVIDED INFORMATION.					REVISION
USEABLE GALLONS					
2,250					
PEMBROKE PINES CITY HALL					
QU# 69854REV1					
DRW.	M.D.S.				
CHK.					
APP.					
DATE	10/1/2018	SCALE:	SHEET	4	OF 7

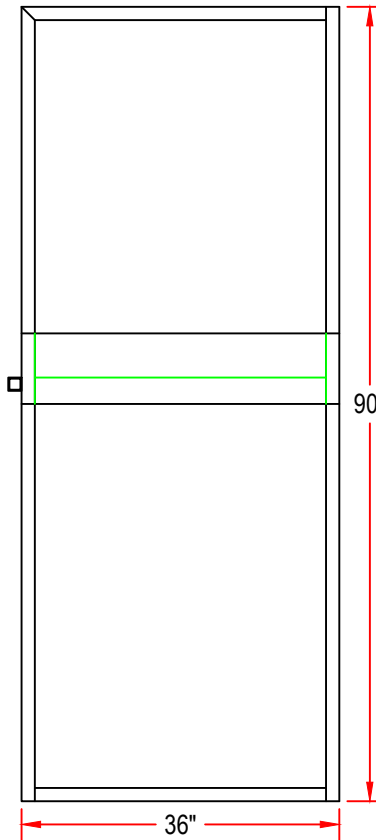
PRELIMINARY



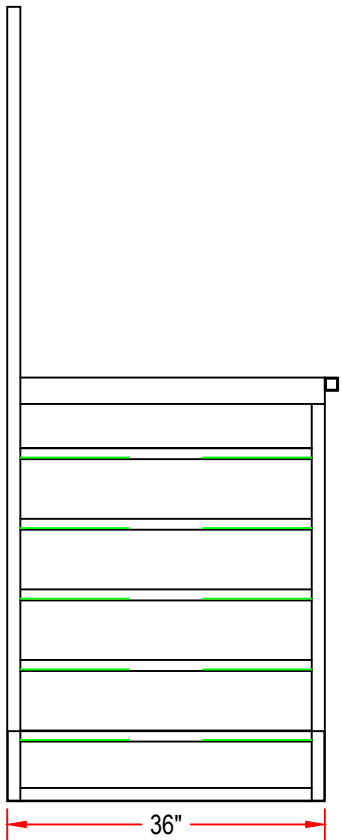
TOP VIEW



SIDE VIEW
OUTSIDE
PLATFORM (1L/1R)




REAR VIEW



FRONT VIEW

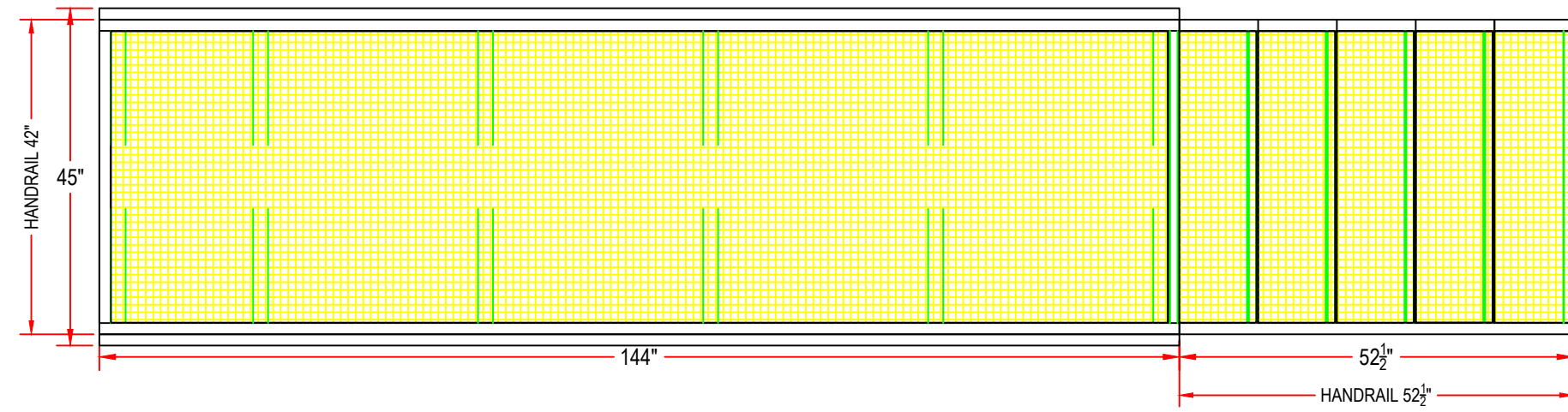
EACH STAIR SET WEIGHS 375 LBS
TOTAL STAIR WEIGHT 750 LBS

Fidelity
MANUFACTURING
1900 NE 25TH AVE, OCALA, FL 34470
PHONE (352) 414-4700 FAX (352) 414-4642

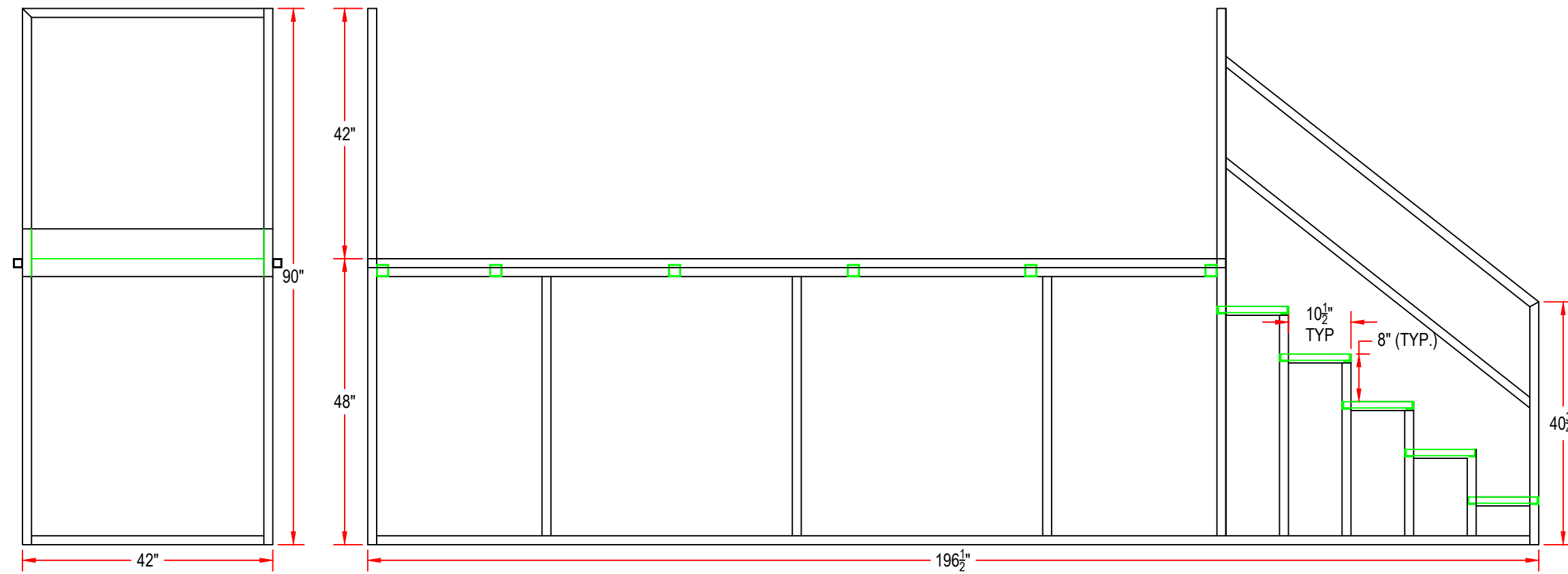
CUSTOMER:			
GENSET SERVICES		THIRD-ANGLE PROJECTION	
DESCRIPTION: OUTSIDE PLATFORM		REVISION	
FIDELITY MANUFACTURING, LLC. CLAIMS PROPRIETARY RIGHT IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING IS ISSUED FOR SALES INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION FROM FIDELITY MANUFACTURING, LLC. TO THE USER. FIDELITY MANUFACTURING, LLC. IS NOT RESPONSIBLE FOR ERRORS DUE TO INSUFFICIENT TECHNICAL SPECS, GENSET DRAWINGS, OR OTHER PROVIDED INFORMATION.			
PEMBROKE PINES CITY HALL			
DRW.	M.D.S.	QU# 69854REV1	
CHK.			
APP.			
DATE	10/1/2018	SCALE:	SHEET 5 OF 7

Attachment I

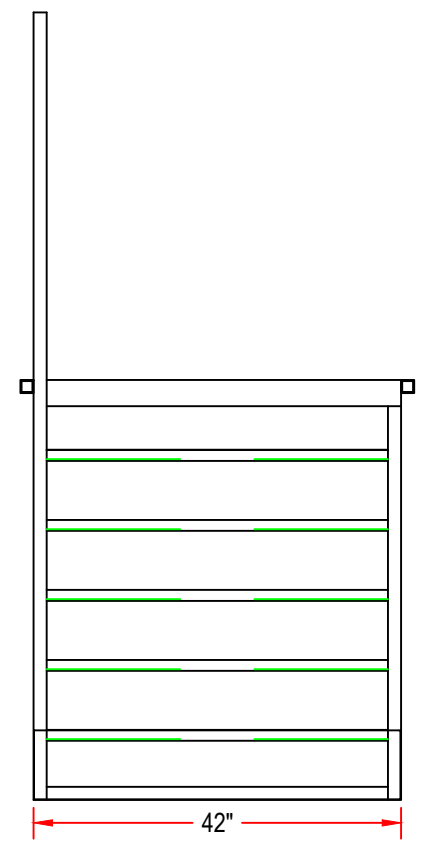
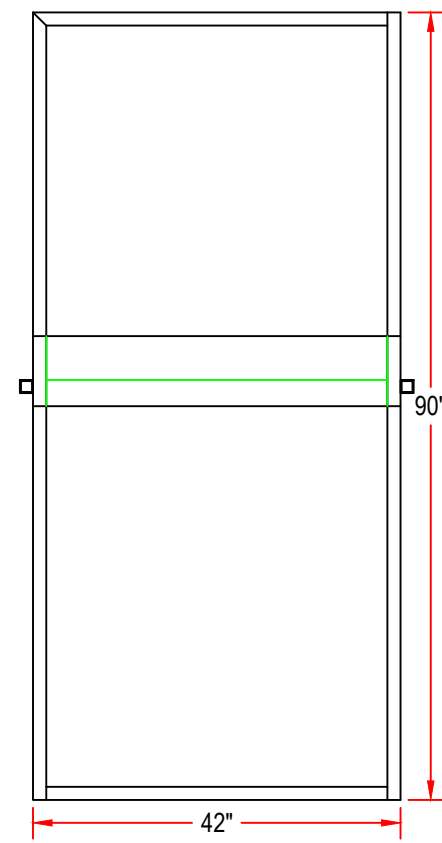
PRELIMINARY



TOP VIEW

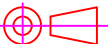


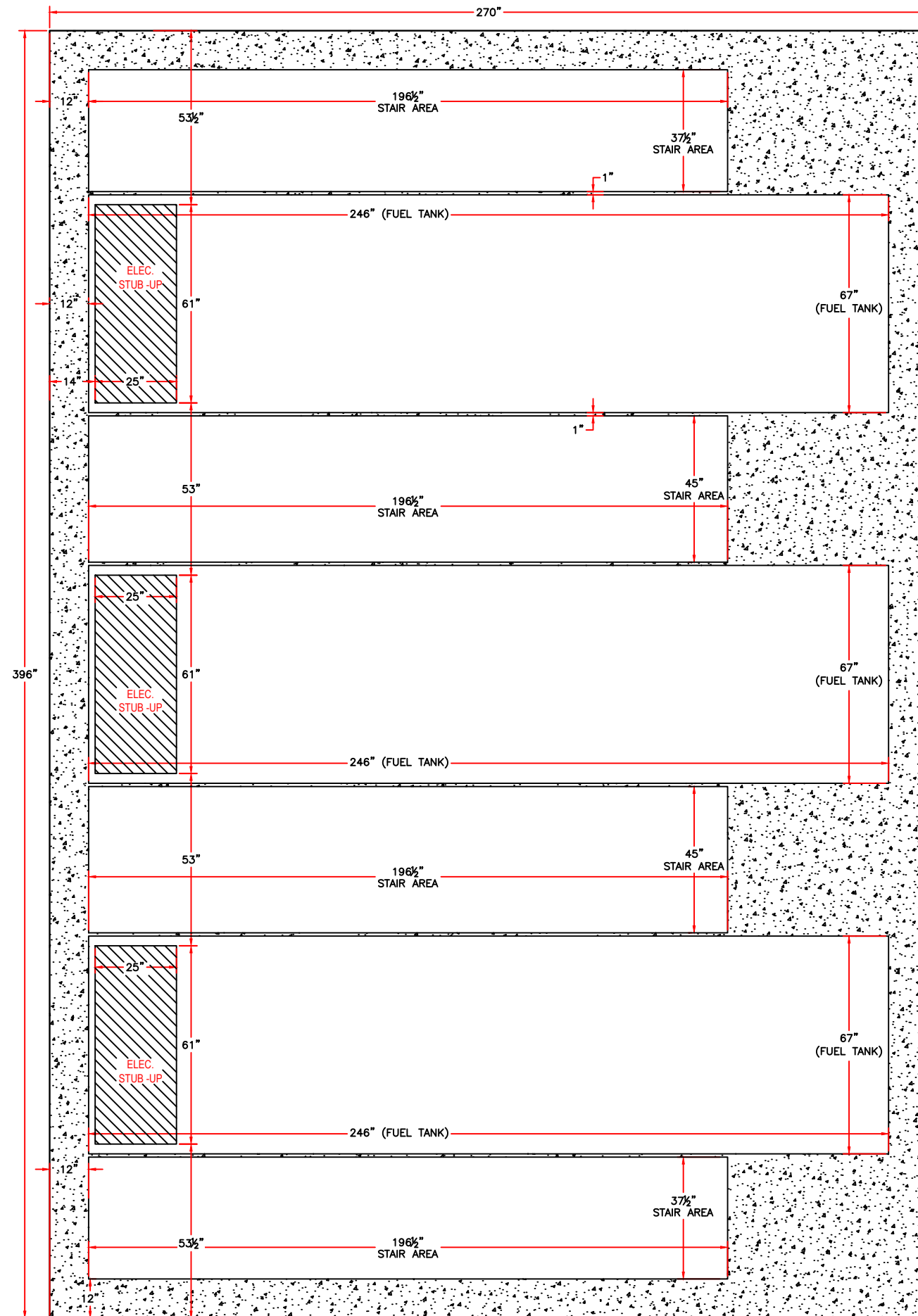
MIDDLE PLATFORM
(1L/1R)



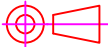
EACH STAIR SET WEIGHS 395 LBS
TOTAL STAIR WEIGHT 790 LBS

Fidelity
MANUFACTURING
1900 NE 25TH AVE, OCALA, FL 34470
PHONE (352) 414-4700 FAX (352) 414-4642

CUSTOMER: <div>GENSET SERVICES</div>		<div></div> <div>THIRD-ANGLE PROJECTION</div>	
DESCRIPTION: MIDDLE PLATFORM			
FIDELITY MANUFACTURING, LLC. CLAIMS PROPRIETARY RIGHT IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING IS ISSUED FOR SALES INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION FROM FIDELITY MANUFACTURING, LLC. TO THE USER. FIDELITY MANUFACTURING, LLC. IS NOT RESPONSIBLE FOR ERRORS DUE TO INSUFFICIENT TECHNICAL SPECS, GENSET DRAWINGS, OR OTHER PROVIDED INFORMATION.		REVISION	
<div>PEMBROKE PINES CITY HALL</div> <div>QU# 69854REV1</div>			
DRW. M.D.S.			
CHK.			
APP.			
DATE 10/1/2018	SCALE:	SHEET 6	OF 7



***PAD MUST BE SLOPED NO MORE THAN 1/4" TO OBTAIN FULL FUEL CAPACITY.

		UL #142 File No. 4 MH27660	
CUSTOMER:			
<h1>GENSET SERVICES</h1>		THIRD-ANGLE PROJECTION	
GENERAC MB500 15.2L FCTY LVL 2			
DESCRIPTION: SUGGESTED PAD LAYOUT			
FIDELITY MANUFACTURING, LLC. CLAIMS PROPRIETARY RIGHT IN THE MATERIAL DISCLOSED HEREON. THIS DRAWING IS ISSUED FOR SALES INFORMATION ONLY AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING SHOWN HEREON WITHOUT PERMISSION FROM FIDELITY MANUFACTURING, LLC. TO THE USER. FIDELITY MANUFACTURING, LLC. IS NOT RESPONSIBLE FOR ERRORS DUE TO INSUFFICIENT TECHNICAL SPECS, GENSET DRAWINGS, OR OTHER PROVIDED INFORMATION.		REVISION	
<h1>PEMBROKE PINES CITY HALL</h1>			
DRW.	M.D.S.	<h1>QU# 69854REV1</h1>	
CHK.			
APP.			
DATE	10/1/2018	SCALE:	SHEET 7 OF 7

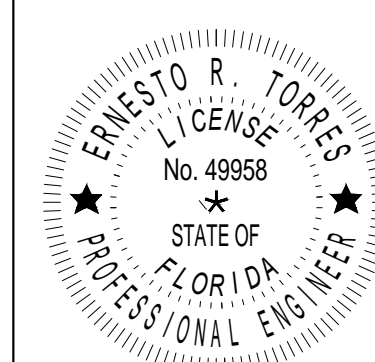


GENERATORS NOTES:

- THE GENERATOR SYSTEM SHALL BE IN FULL COMPLIANCE WITH NFPA 110 LEVEL 1 DESIGNATION, CLASS 4B, TYPE 10, TO BE CONSIDERED EQUAL, ALL SPECIFICATIONS MUST BE MET AND THE MANUFACTURER MUST HAVE A MINIMUM OF 10 INSTALLATIONS IN SOUTH FLORIDA WITH THE NFPA 110 LEVEL 1 DESIGNATION WHICH HAVE BEEN IN OPERATION A MINIMUM OF FIVE (5) YEARS.
- THE SCOPE OF WORK FOR THIS PROJECT IS TO SERVE THE BUILDING WITH EMERGENCY POWER FOR OCCUPANCY IN CASE OF A POWER FAILURE. EXISTING EMERGENCY GENERATOR SERVING LIFE SAFETY LOADS, FIRE PUMP CONTROLLER AND OTHER CRITICAL LOADS SHALL BE DISCONNECTED FROM EXISTING BUILDING EMERGENCY PANELS AND REMOVED WITH THEIR ASSOCIATED WIRING.
- ALL EXISTING LIFE SAFETY EQUIPMENT THAT RELIES ON POWER WILL BE POWERED BY THE GENERATOR DURING POWER FAILURE AND WILL STILL REMAIN WITH BATTERY POWERED.
- NEW EMERGENCY GENERATORS SHALL BE MONITORED BY ITS OWN REMOTE ANNUNCIATOR PANELS. REMOTE ANNUNCIATOR PANELS SHALL BE LOCATED AT EXISTING BUILDING INFORMATION AREA - ROOM 107 (CONSTANTLY ATTENDED LOCATION) WHERE OLD GENERATOR ANNUNCIATOR PANEL WAS LOCATED.
- REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH NFPA 1, CHAPTER 1.14 PLAN REVIEW SECTION.
- FIRE CODES IN EFFECT: FLORIDA FIRE PREVENTION CODE (FFPC) 6TH EDITION, EFFECTIVE DECEMBER 31, 2017 WITH BROWARD COUNTY AMENDMENTS, WHICH INCLUDES NFPA 101, 2015 EDITION, NFPA 1, 2015 EDITION & STATE STATUTES, 2012 EDITION (ADOPTED REFERENCED PUBLICATIONS FOUND HEREIN) AND NFPA 37, 2015.
- AS PER NFPA 37:
 - 4.1.1 ENGINES SHALL BE SITUATED SO THAT THEY ARE READILY ACCESSIBLE FOR MAINTENANCE, REPAIR, AND FIREFIGHTING.
 - 4.1.4 ENGINES LOCATED OUTDOORS. ENGINES, AND THEIR WEATHERPROOF HOUSINGS, IF PROVIDED, THAT ARE INSTALLED OUTDOORS SHALL BE LOCATED AT LEAST 1.5m (5FT) FROM OPENING IN WALLS AND AT LEAST 1.5m (5FT) FROM STRUCTURES HAVING COMBUSTIBLE WALLS. A MINIMUM SEPARATION SHALL NOT BE REQUIRED WHERE EITHER OF THE FOLLOWING CONDITIONS EXIST:
 - ALL WALLS OF THE STRUCTURE THAT ARE CLOSER THAN 1.5m (5FT) FROM THE ENGINE ENCLOSURE HAVE A FIRE RESISTANCE RATING OF AT LEAST 1 HOUR.
 - THE WEATHERPROOF ENCLOSURE IS CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS AND IT HAS BEEN DEMONSTRATED THAT A FIRE WITHIN THE ENCLOSURE WILL NOT IGNITE COMBUSTIBLE MATERIALS OUTSIDE THE ENCLOSURE.
 - A FIRE EXTINGUISHER WITH A MINIMUM CLASSIFICATION OF 4A: 60 B:C SHALL BE PROVIDED WITHIN 100' OF TANK AND GENERATOR. EXTINGUISHER SHALL BE IN A WEATHERPROOF CABINET.
- PROVIDE NFPA 704 HAZARD IDENTIFIABLE PLACARD WILL BE AFFIXED ON THE GENERATOR IN AN AREA READABLY VISIBLE TO APPROACHING EMERGENCY PERSONNEL AND ON THE BUILDING IN A LOCATION NEAR THE MAIN ENTRANCE AND READABLY VISIBLE TO APPROACHING EMERGENCY PERSONNEL FROM THE PRINCIPLE STREET. THIS SHALL BE WEATHER PROOF, OF CONTRASTING COLORS, 6 INCH LETTERING.
- A "GENERATOR SHUT TRIP" WEATHERPROOF SIGN WILL BE PROVIDED. COORDINATE EXACT LOCATION AT FIELD.
- "NO SMOKING" SIGN WITHIN 50 FEET WILL BE PROVIDED. COORDINATE EXACT LOCATION AT FIELD.

revisions:

**CITY OF PEMBROKE PINES CIVIC CENTER AND CITY HALL
UPGRADE EMERGENCY BACKUP ELECTRICAL SERVICE EQUIPMENT
601 CITY CENTER WAY
PEMBROKE PINES, FL. 33025**



JOB NUMBER: 18046

FLORIDA ENGINEERING SERVICES, INC.
FES
...engineering for the future
34 N.W. 168th Street
North Miami Beach, FL 33169
Tel.: (305) 653-0212
E-Mail: ErnestoT@fesinc.biz
Ernesto R. Torres, P.E.
P.E.#: 49958 - Electrical
C.O.A.: EB0003862

Drawn by: ERT

date: MARCH 8, 2019

sheet no:

ES-1

project:

NEW NEMA 3R EMERGENCY GENERATORS DISTRIBUTION SWITCHBOARD WITH ENTRANCE CABLE SECTION									
GEN	AMPS	PHASE	VOLTAGE	MAIN/AIC	MOUNTING	LOCATION	NEMA TYPE	CATALOG NUMBER	
PANEL	2500	3	277/480	MLO/65KAIC	FREE STAND.	OUTSIDE	NEMA 3R	SWITCHBOARD SB3	
CIRCUIT NUMBER	BREAKER		SERVING	WIRE THWN CU	CONDUIT INCH	DEMAND LOAD AMPS			
	POLE	AMPS RATING				L1	L2	L3	NEUTRAL
1	3 OFF/LSIG	1200 ELECT. TRIP	NEW ATS-A (SWITCHBOARD HSBA)	NEW (3) SETS OF #4#600 MCM & #13/0 CU (GND)	EA. SET	500	500	500	500
2	3 LSI ELECT. TRIP	800 ELECT. TRIP	NEW ATS-B (SWITCHBOARD HSBB)	NEW (2) SETS OF #4#600 MCM & #11/0 CU (GND)	EA. SET	266	266	266	266
3	3 LSI ELECT. TRIP	600 ELECT. TRIP	NEW ATS-C (PANELBOARD HDVA)	NEW (2) SETS OF #4#350 MCM & #11 CU (GND)	EA. SET	200	200	200	200
4	3 LSI ELECT. TRIP	600 ELECT. TRIP	EXIST ATS-CR (PANELBOARD MDPE)	NEW (2) SETS OF #4#350 MCM & #11 CU (GND)	EA. SET	133	133	133	133
5	-	-	SPACE	-	-	-	-	-	-
-	3	200	LIFE SAFETY ATS-LS (PANEL H1LS) EXTERNAL CKT. BKR. THRU AUX. LUGS AT CABLE SECTION	NEW #4#3/0 & #16 CU (GND)	2	33	33	33	33
-	3	100	SERV. ENTR. FIRE PUMP CONTROLLER EXTERNAL CKT. BKR. THRU AUX. LUGS AT CABLE SECTION	NEW #3/4 & #18 CU (GND)	1-1/2	52	52	52	0
TOTAL CONNECTED LOAD						1184	1184	1184	1132
CU THWN FEEDER: (6) SETS OF #4#600 MCM & #1#350 MCM CU (GND) 4" PVC EACH SET TO 3-NEW 500KW GENERATORS PROVIDE A TOTAL OF (12) 600 MCM LUGS AT SWITCHBOARD CABLE SECTION									
SIEMENS, GENERAL ELECTRIC OR SQUARE-D WILL BE APPROVED, CATALOG NUMBER SHOWN: SIEMENS									

* NOTE:
 SIZE OF EMERGENCY SERVICE FOR EXISTING SWITCHBOARD HSBA & HSBB, PANELBOARD HDAV, ATS-CR (PANELBOARD MDPE)
 & ATS-LS (PANEL H1LS) HAS BEEN DONE BASED ON THE MAXIMUM DEMAND DATA AVAILABLE FOR A YEAR PERIOD IN FULL
 COMPLIANCE OF NEC 220.87.
 EXISTING TO REMAIN PANELBOARD AT 120/208V INSIDE MAIN ELECTRICAL ROOM.

[illegible]

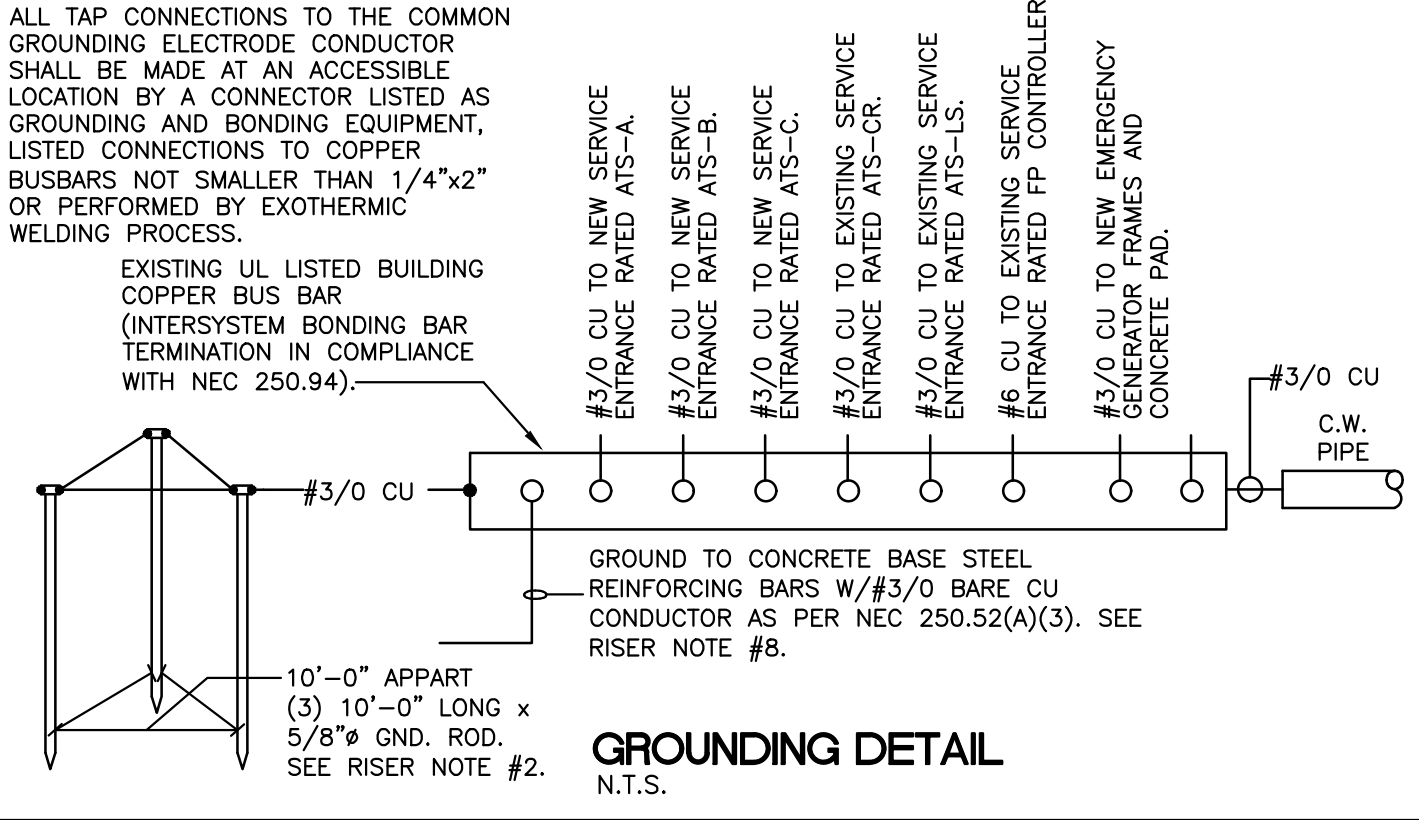
RISER NOTES :

1. ALL WIRE SHALL BE COPPER THWN OR AS OTHERWISE NOTED ON THESE PLANS.
2. EXISTING GROUND SYSTEM TO (3/10"-Ø) LONG X 5/8" x COPPER CLAD GROUND ROD 10'-0" APPART AS PER BLDG. PERMIT DRAWINGS.
3. ALL EQUIPMENT INTERRUPTING CAPACITIES SHALL BE PROVIDED FOR PROBABLY FAULT CURRENT IN FULL COMPLIANCE WITH NEC 110.9. THE ELECTRICAL CONTRACTOR SHALL VERIFY AIC RATING OF THE NEW EQUIPMENT WITH FAULT CURRENT INFORMATION PROVIDED TO THE POWER ENGINEER ORDER THE NEW ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PERMANENTLY MARK IN THE FIELD, WITH LEGIBLE LETTERS, THE MAXIMUM AVAILABLE FAULT CURRENT PROVIDED BY FPL AT THE NEW EMERGENCY SERVICE RATED AUTOMATIC TRANSFER SWITCHES EQUIPMENT TO COMPLY WITH NEC 110.12.4.
4. PROVIDE PERMANENT PLAQUE AS PER NEC 230.2 FOR EACH OF THE NEW SERVICE ENTRANCE RATED AT'S (ATS-A, ATS-B & ATS-C) AS SHOWN IN RISER DIAGRAM AND PROVIDE EXISTING RED SERVICE PLAQUE AND REQUIRE MAIN GROUNDING BONDING FOR MAIN DISCONNECTS 10F3, 20F3 & 20F3 SHALL BE REMOVED FROM THEIR ASSOCIATED ELECTRICAL SWITCHGEAR EQUIPMENT.
5. NEW SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCHES (ATS-A, ATS-B & ATS-C) & GENERATOR DISTRIBUTION SWITCHBOARD "GDP" SHALL BE INSTALLED ABOVE FLOOD CRITERIA.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FPL, & THE CITY OF PEMBOKE PINES REPRESENTATIVE THE TEMPORARY TURNING OFF OF THE MAIN TRANSFORMER DURING THE INSTALLATION OF THE NEW EMERGENCY GENERATOR BACKUP SYSTEM. PROVIDE BACKUP POWER THRU PORTABLE GENERATOR TO OPERATE BUILDING AS NEEDED DURING THE SERVICE IS TURNING OFF.
7. NEW GENERATORS, ATS'S & GENERATOR DISTRIBUTION SWITCHBOARD "GDP" CONCRETE PADS SHALL BE POURED AS REQUIRED.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH NEW CONCRETE PAD CONTRACTOR THE PROPER INSTALLATION OF ALL NEW UNDERGROUND ELECTRICAL AND LOW VOLTAGE CONDUITS AND GROUNDING CONNECTIONS AS SHOWN ON THESE DRAWINGS.
9. ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS REQUIRED FOR CONTROL WIRING, INTERCONNECTIONS BETWEEN ALL 3 NEW EMERGENCY GENERATORS, NEW SERVICE ENTRANCE RATED AT'S (ATS-A, ATS-B & ATS-C), EXISTING TRANSFER AND GENERATOR DISTRIBUTION SWITCHBOARDS AND GENERATOR POWER MANAGER SYSTEM CONTROLLER, PROVIDE 3/4" EMPTY CONDUITS WITH PULL STRINGS AS REQUIRED. COORDINATE COMPLETE INSTALLATION OF CONTROL WIRING CONDUITS WITH GENERATOR PROVIDER BEFORE INSTALLATION.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FPL FIELD REPRESENTATIVE THE DISCONNECTION AND REMOVAL OF THE EXISTING UNDERGROUND FEEDERS SERVING THE BUILDING MAIN DISTRIBUTION EQUIPMENT INDICATED ON THESE DRAWINGS ONLY. ALSO, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND EXACT ROUTING OF THE ALL NEW UNDERGROUND FEEDERS FROM EXISTING FPL TRANSFORMER TO THE NEW UNDERGROUND SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCHES INSIDE THE MAIN ELECTRICAL ROOM AS SHOWN ON THESE DRAWINGS.
11. NEW 3000A, 1600A & 1200A SERVICE ENTRANCE MAIN CIRCUIT BREAKERS, NEW ATS-A, ATS-B & ATS-C & NEW TRANSFER GENERATOR CIRCUIT BREAKERS SHALL BE SELECTED TO BE 100K RATED BY SIEMENS (NO SUBSTITUTION ALLOWED) AND 65KAIC SERIES RATED WITH EXISTING SIEMENS CIRCUIT BREAKERS INSIDE MAIN SWITCHBOARDS DISTRIBUTION AND ALL OTHER PANELBOARDS.
12. ALL NEW UNDERGROUND FEEDERS ROUTING SHALL BE COORDINATED WITH BUILDING ADMINISTRATION, CITY OF PEMBOKE PINES REPRESENTATIVE AND OTHER STATE AGENCIES TO AVOID CONFLICT WITH ALL EXISTING UNDERGROUND PIPING SERVING THE BUILDING.
13. EXISTING SERVICE SECTION OF SWITCHBOARD HSBA SHALL BE DISCONNECTED FROM EXISTING SERVICE FEEDERS. EXISTING SERVICE FEEDERS FROM FPL TRANSFORMER SHALL BE REMOVED AND CONDUITS TO BE ABANDONED. EXISTING KIRK KEY SWITCH ON THIS SERVICE SECTION SHALL BE REMOVED AND INSTALLED IN THE ADJACENT EMERGENCY SECTION. THIS SECTION SHALL NOT BE USED UNDER NORMAL OR EMERGENCY OPERATION.
14. EXISTING EMERGENCY SECTION OF SWITCHBOARD HSBA SHALL BE DISCONNECTED FROM EXISTING PORTABLE GENERATOR FEEDERS. EXISTING FEEDERS FROM DOCKING STATION SHALL BE REMOVED. EXISTING TRANSFER AND EXISTING OUTDOOR JUNCTION BOX SHALL BE RE-USED TO SERVE THE EMERGENCY SECTION OF THE SWITCHBOARD THRU THE NEW SERVICE ENTRANCE RATED ATS-A. THIS EXISTING OLD TRANSFER SWITCH SHALL BE TURNED ON WITH THE EXISTING KIRK KEY SWITCH BEING REMOVED FROM OLD SERVICE SECTION AND SHALL BE USED UNDER NORMAL AND EMERGENCY OPERATION.
15. SERVICE FEEDERS SERVING EXISTING SWITCHBOARDS HSBA, AND HSBB AND PANELBOARD HDV SHALL BE DISCONNECTED FROM FPL TRANSFORMER, WIRING REMOVED AND CONDUITS ABANDONED. NEW FEEDERS RUNNING AT CEILING OF MAIN ELECTRICAL ROOM SHALL BE INSTALLED FROM LOAD SIDES OF NEW ATS-A, ATS-B & ATS-C TO SWITCHBOARDS HSBA & HSBB & PANELBOARD HDV AS SHOWN ON THESE DRAWINGS. SERVICE FEEDERS HAVE BEEN SIZED AS PER CONNECTED LOAD SHOWN ON THE BUILDING PERMIT CONSTRUCTION DRAWINGS.
16. SERVICE FEEDERS SERVING EXISTING NORMAL SIDES OF ATS-CR (PANELBOARD MDEP), ATS-LS (PANELBOARD H1LS) AND SERVICE ENTRANCE RATED FIRE PUMP CONTROLLER SHALL REMAIN CONNECTED TO EXISTING FPL TRANSFORMER. EXISTING EMERGENCY FEEDERS FROM OLD BEING REMOVED. EXISTING GENERATOR SYSTEM SHALL BE DISCONNECTED, WIRING REMOVED AND CONDUITS ABANDONED. NEW EMERGENCY FEEDERS RUNNING AT CEILING OF MAIN ELECTRICAL ROOM SHALL BE INSTALLED FROM LOAD SIDES OF NEW EMERGENCY GENERATOR DISTRIBUTION SWITCHBOARD "GDP" AS SHOWN ON THESE DRAWINGS. FEEDERS HAVE BEEN SIZED AS PER MAXIMUM DEMAND DATA AVAILABLE FOR A YEAR PERIOD IN FULL COMPLIANCE WITH NEC 220.87.
17. EMERGENCY FEEDERS SERVING NEW EMERGENCY SIDES OF ATS-A (HSBA), ATS-B (HSBB) AND ATS-C (HDV) SHALL RUN AT CEILING OF MAIN ELECTRICAL ROOM FROM NEW NEMA 3R EMERGENCY SWITCHBOARD "GDP" LOCATED OUTSIDE THE ROOM. FEEDERS HAVE BEEN SIZED AS PER MAXIMUM DEMAND DATA AVAILABLE FOR A YEAR PERIOD IN FULL COMPLIANCE WITH NEC 220.87.
18. NEW SERVICE FEEDERS SERVING NEW NORMAL SIDES OF ATS-A (HSBA), ATS-B (HSBB) AND ATS-C (HDV) SHALL RUN UNDERGROUND FROM EXISTING FPL TRANSFORMER TO OPERATING STANDING ATS'S LOCATION AT CENTER OF THE MAIN ELECTRICAL ROOM. SERVICE FEEDERS HAVE BEEN SIZED AS PER CONNECTED LOAD SHOWN ON THE BUILDING PERMIT CONSTRUCTION DRAWINGS.
19. THE NEW EMERGENCY SYSTEM SHALL BE PROGRAMMED TO GUARANTEE THE FULL OPERATION OF THE ATS-LS (PANEL H1LS) & FIRE PUMP CONTROLLER IN CASE OF FAILURE OF ANY OF THE GENERATORS OR AN OVERLOAD SITUATION. THE REST OF THE EMERGENCY LOADS SHALL BE PRIORITIZED AS FOLLOWS:
PRIORITY 1: ATS-CR (MDEP)
PRIORITY 2: ATS-C (HDV)
PRIORITY 3: ATS-B (HSBB)
PRIORITY 4: ATS-C (HSBA).
PROPOSED PRIORITIZATION SHALL BE APPROVED BY THE CITY OF PEMBOKE PINES.

ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

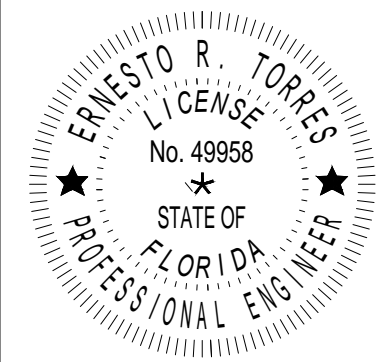
NOT



GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE ELECTRICAL SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK. IF ANY SPECIFIC DIVISION IS SHOWN, THE STRUCTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN SPACE CONDITIONS AT ALL POINTS. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE OWNER REP./ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
2. THE DRAWING ARE TO BE CONSIDERED DIAGRAMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN SPACE CONDITIONS AT ALL POINTS. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE OWNER REP./ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
3. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL ELECTRICAL ITEMS SHOWN ON THESE DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE OWNER REP./ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
4. VERIFY SERVICE CHARACTERISTICS, LOCATION AND CONNECTION WITH ELECTRIC UTILITY COMPANY. PERFORM ALL WORK RELATED TO SERVICE IN STRICT ACCORDANCE WITH UTILITY CO. STANDARDS AND REQUIREMENTS.
5. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF WORK IN HIS OPINION. IT DOES NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
6. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN RISK FOR ANY DEFICIENCIES WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
7. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS—CITY/TOWNSHIP, ROYALTIES, AND TAXES OF WHATEVER NATURE, SHALL APPLY TO THIS WORK. HE SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OR ORDINANCES.
8. ALL WIRE SHALL BE COPPER TYPE THINN EN EMT/PVC RACEWAYS.
9. WIRE UP COMPLETE THE NEW SERVICE ENTRANCE RATED AT 75% AND GENERATOR AS DIRECTED BY EQUIPMENT MANUFACTURER. CONTROL WIRING SHALL BE SEPARATE RACEWAY FROM POWER WIRING.
10. ALL EXISTING ELECTRICAL SWITCHGEAR EQUIPMENT IS BY SIEMENS. NEW GENERATOR MAIN DISTRIBUTION CIRCUIT BREAKERS, GENERATORS AND FIRE PUMP EMERGENCY CIRCUIT BREAKERS AND SERVICE ENTRANCE CIRCUIT BREAKERS INSIDE NEW AT'S SHALL BE BY SIEMENS AND SELECTIVELY COORDINATED WITH ALL EXISTING OVERCURRENT PROTECTIVE DEVICES BY SIEMENS IN FULL COMPLIANCE WITH NEC 701-101 NO SUBSTITUTION ALLOWED.
11. PROVIDE MEANS "TURNISH AND INSTALL".
12. COORDINATE WORK WITH WORK OF OTHER TRADES TO AVOID ALL CONFLICTS.
13. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.
14. IDENTIFY CLEARLY ON A TYPE WRITTEN FORM ALL CIRCUITS AND EQUIPMENT TO CORRESPOND WITH THE PLANS AND PANELS SCHEDULE AND ATTACH NEXT TO THE PERTAINING PANEL.
15. BACKRAYS: ALL EXPOSED RACEWAYS INSIDE ELECTRICAL ROOM TO BE EMT. ALL NEW UNDERGROUND RACEWAYS TO BE PVC SCHEDULE 40.
16. SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
17. TESTING: THE CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS DIRECTED BY THE ARCHITECT AND BY AUTHORITIES HAVING JURISDICTION, FURNISHING ALL EQUIPMENT AND NECESSARY PERSONNEL AND ELECTRIC POWER. THE ENTIRE INSTALLATION SHALL BE TESTED FOR SHORTS, GROUNDING, OPEN CIRCUITS, AND ALL DEFECTS SHALL DEMONSTRATED TO BE IN PROPER WORKING AND OPERATING CONDITION TO THE COMPLETE SATISFACTION OF THE ENGINEER.
18. GUARANTEES: ALL EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE BY OWNER.
19. AT COMPLETION OF JOB THE ELECTRICAL CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF REPRODUCIBLE COPIES SHOWING THE EXACT ELECTRICAL INSTALLATION.
20. BEFORE BIDDING THE JOB THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
21. CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING BUT NOT LIMITED TO A SECTION OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION IN FULL COMPLIANCE WITH FBC EC C405.6.4.1.
22. CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER AN OPERATING MANUAL AND MAINTENANCE MANUAL INCLUDING SUBMITTAL DATA STATING EQUIPMENT, MODELING AND SERIAL NUMBERS OF EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE WITH CLEARLY IDENTIFIED REQUIRED ROUTING AND ACTION ACTIONS AND NAMES AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY IN FULL COMPLIANCE WITH FBC EC C405.6.4.2.

CITY OF PEMBROKE PINES CIVIC CENTER AND CITY HALL
UPGRADE EMERGENCY BACKUP ELECTRICAL SERVICE EQUIPMENT
601 CITY CENTER WAY
PEMBROKE PINES, FL. 33025



JOB NUMBER: 18046



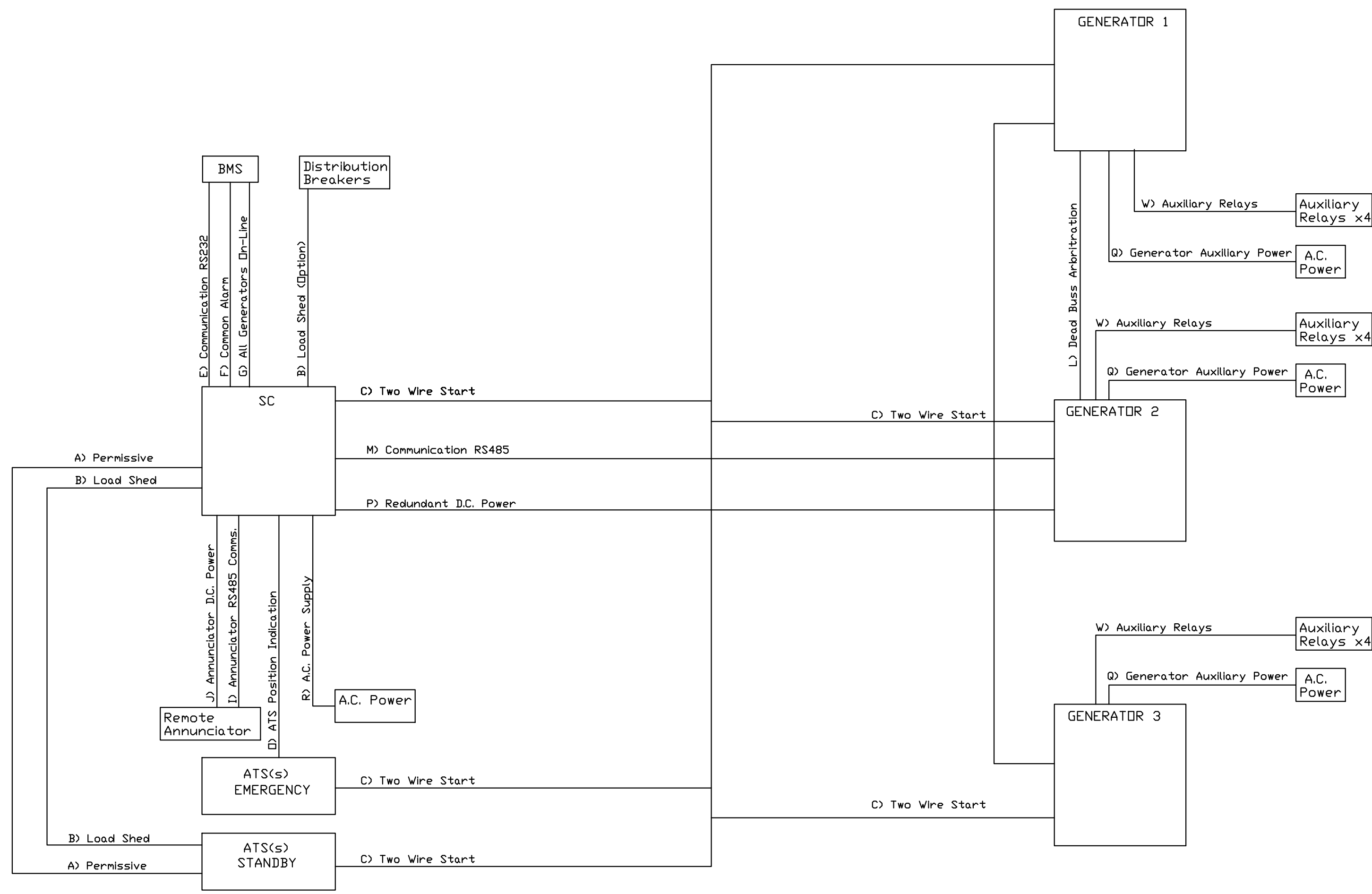
drawn by:

date: MARCH 8, 2019

sheet no

ES-2

project



CONTROL INTERCONNECT MODULAR POWER SYSTEMS
STANDARD CONTROL WIRING CONFIGURATION
SCALE: N.T.S.

Reference	Description				Reference	Function
SC	Power Manager System Controller - Controls start/stop sequencing.				A) "Permissive"	This function is normally connected to the transfer switches inhibit transfer function. This is to ensure adequate generator capacity is available prior to transferring the ATS connected load onto the generator bus. <ul style="list-style-type: none">- Within the system the first load step (step 0) occurs when all non-inhibited transfer switches come on line.- These are usually the emergency loads coming onto the generator bus with the first generator.- The SC then has 3 permissive steps to sequence load steps 1, 2 and 3.- The SC provides 2 output contacts for each load step.- If more transfer switches must be controlled, the standard output contacts can be interposed to control any number of transfer switches.- The logic for when the permissives are given is based on the number of generators on-line and is fully configurable.
ATS	Automatic Transfer Switch					
Gen	Generator					
BMS	Building Management system					
Reference	Function	Wire	From	To		
A	Permissive to transfer (priority loading)	2/14	SC "TB4" (1-12)" Permissive 1,2,3	ATS "Inhibit"	B) "Load Shed"	This function is utilized to reduce system load upon the failure of one or multiple generators. Typically implemented by either tripping transfer switches to neutral, shunt tripping circuit breakers in distribution, or via facility automation. <ul style="list-style-type: none">- The SC has 3 load shed steps with a single contact per step.- If more transfer switches must be controlled, the standard output contacts can be interposed to control any number of transfer switches.- If the ATS has a single input for Inhibit transfer & load shed, the SC permissive output will de-energized supporting load shedding.- The logic for when the permissives are given is based on the number of generators on-line and is fully configurable.
B	Load shed to ATS	2/14	SC "TB3" (1-12)" Load shed 1,2,3	ATS "LS"		
C	Initiate system start "Two Wire Start"	2/14	SC "TB1 (6-8)" Two Wire start	ATS "Two wire start"		
D	ATS position indication	3/14	ATS Position Contacts	SC "TB6 (4-6) Aux Inputs		
E	External RS232 communications	3/18 Twisted & Shielded	SC "TB3" Diagnostics	BMS		
F	Common alarm	2/14	SC "TB3 (7-9)" Alarm	BMS		
G	All Generator On-Line	1/14	SC "TB3 (13-15)" Status	BMS		
I	Remote Annunciator Communication	2/18 Twisted & shielded	SC "TB1" (9-11)"Comms	Connector J10 (4-6)	C) "Two Wire Start"	The transfer switches sense loss of normal power and initiate a system start through this function. <ul style="list-style-type: none">- All transfer switches start contact will terminate in parallel at the SC.- The two wire start at the SC will then be jumpered to each of the generators forming a redundant start.- The redundant start is utilized when normal system RS485 communications are lost.
J	Annunciator DC Power	2/14	SC "TB1 (1-2)" Charger Out	Annunciator 24+ and 0 GND		
L	Dead buss arbitration	2/14	Gen 1 "TB6 (4)" WIRE 816	Gen 2 "TB6 (2) WIRE 814		
M	Generator RS485 comms	2/18 Twisted & shielded	SC "TB1" (9-11)"Genset Comms	Gen "TB1 (10-12)" Genset Comms	D) "ATS Position"	Required if ATS switch position is to be indicated on the remote annunciator. Typically only connect emergency load transfer switches to this function.
P	Redundant DC power to SC	2/14	Gen "TB1 (1)" +24 VDC	SC "TB3" +24 IN 220		
Q	Generator auxiliary power	2/14	Auxiliary Power Panel	Gen Load Center	E) "RS232 Communications"	Remote monitoring communications via Modbus RTU protocol. Converter options available for RS485 or Ethernet. <ul style="list-style-type: none">- This is normally used by building management systems to gather detailed status.- For mission critical applications, consider also hardwiring "common alarm" and "on-line" status from each generator.
R	System Controller power	2/14	Auxiliary Power Panel	SC TB2 (1-3)" 120 VAC Power		
W	Customer Auxiliary Relays (x4)	2/14 per point monitored	Gen "RB3 "Aux 1-4"	Custom Wiring		
					F) "Common Alarm"	Annunciates with contact closure that all generators are operating and connected together.
					G) "Generators On-Line "	Annunciates with contact closure that all generators are operating and connected together.
					I) "Annunciator Communication"	Passes all alarms and status points from the System controller to remote annunciator panel.
					J) "D.C. Power"	Fused +24 VDC to power the remote annunciator.
					L) "Dead Buss Arbitration"	This function ensure s that only one generator is closing into the dead bus when operating with failed communications. <ul style="list-style-type: none">- Under normal operation dead bus arbitration is performed by communications with the SC.- Under normal operation, first generator up to rated conditions energizes the dead bus.- If communication are failed, either generator 1 or 2 can energize the dead bus automatically.
					M) "RS485 Communication"	Provides all communication and controls between System Controller (SC) and the Generators. <ul style="list-style-type: none">- Communications are used for start/stop, dead bus arbitration, and fine tuning the load balancing.- Synchronizing, protection, and basic load balancing function at a generator level.
					P) "Redundant D.C. Power SC"	Provide s redundant +24 VDC power from generator 1 to the System Controller. <ul style="list-style-type: none">- The SC also has internal DC power from an internal battery and charger.
					Q) "Generator Auxiliary Power"	Generator utilizes a 240V, 50 Amp load center to power the block heater, battery charger etc. <ul style="list-style-type: none">- Power must be provided to this load center from a facility distribution panel on generator power.
					R) "SC A.C. Power"	SC is powered by an internal battery which is supported with a 120VAC charger. <ul style="list-style-type: none">- This 120V charger power must be powered from a facility distribution panel that is on generator power.
					W) "Generator Auxiliary Relays"	Each generator has 4 programmable relays for customer special use . <ul style="list-style-type: none">- There lay functions are fully configurable .

- GENERATORS "A" & "B" & "C" NOTES**
- THREE GENERAC MB500 OR EQUAL INDUSTRIAL BI-FUEL GENERATOR SET, 500KW FOR OPERATION AT 500KW, 625KVA, 0.8 PF, 277/480 VOLTS, 3 PHASE, 4 WIRE, 60 HERTZ, 1800 RPM, LIQUID COOLED UNIT MOUNTED RADIATOR, COMPLETE WITH ALL STANDARD EQUIPMENT, OVERSIZED GENERATORS, INCLUDING THE FOLLOWING:
- * COMPLETE A/C INSTRUMENT CONTROL PANEL
 - * MICROPROCESSOR ENGINE CONTROL MODULE WITH COOL DOWN TIMER
 - * FOUR ENGINE SHUTDOWNS WITH SIGNAL LIGHTS AND ALARMS PER NFPA 110, LEVEL 1
 - * ENGINE DRIVEN BATTERY CHARGING ALTERNATOR
 - * JACKET WATER HEATER 2500 WATTS 240 VOLTS
 - * FLOAT TYPE BATTERY CHARGER, 10 AMP, 120V WALL MOUNTED WITH ALARM CONTACTS PER NFPA
 - * LEAD ACID TYPE STARTING BATTERIES
 - * BATTERY RACK AND CABLES
 - * FLEXIBLE FUEL LINES, 18 INCH MINIMUM
 - * CRITICAL GRADE SILENCER
 - * STAINLESS STEEL FLEXIBLE EXHAUST CONNECTOR
 - * STEEL SUB-BASE WITH BUILT-IN VIBRATOR ISOLATION MOUNTS
 - * FACTORY CERTIFIED TEST
 - * TEST/ACCEPTANCE RUN BY FACTORY TRAINED SERVICE TECHNICIAN
 - * LSIG ELECTRONIC MAIN CKT. BKR. THERMAL MAGNETIC, SIEMENS, 800 AMPS, 100% RATED, 3P, 277/480V, 65KAIC
 - * UL APPROVED 2250 GALLONS, DOUBLE WALL W/RUPTURE-BASIN, UL#142, SUB-BASE, FUEL TANK W/LEAK DETECTOR, FLA. DEP & DERM APPROVAL.
 - * LOW LEVEL ALARM
 - * FUEL LEVEL GAUGE
 - * REMOTE MOUNTED ANNUNCIATOR WITH SIXTEEN LIGHTS & AUDIBLE ALARM WITH SILENCE SWITCH
 - * REMOTE EMERGENCY STOP BREAK-GLASS SWITCH
 - * LEVEL 2 ACOUSTIC ALUMINUM ENCLOSURE
 - * EXTENDED 5 YEARS WARRANTY.
 - * A LOAD BANK TEST SHALL BE PERFORMED ONCE THE EQUIPMENT IS COMPLETELY INSTALLED AND PRIOR TO TCO.

- AUTOMATIC TRANSFER SWITCH ATS-A**
- PROVIDE ONE 3000 AMPERE, STYLE 3, UL 1008 LISTED; POWER SERIES SERIES ENTRANCE RATED AUTOMATIC TRANSFER SWITCH BY GENERAC OR EQUAL FOR OPERATION AT 277/480V VOLTS, 3 POLE, THREE PHASE, FOUR WIRE, 60 HERTZ, 65,000 AIC. THE TRANSFER SWITCH SHALL BE MECHANICALLY HELD, POSITIVELY INTERLOCKED, NEMA 1 ENCLOSURE, 100% RATED 3000A, 277/480V, 65KAIC, GROUND FAULT PROTECTION, ELECTRONIC TRIP UNIT WITH LCO LSIG MAIN CIRCUIT BREAKER BY SIEMENS. NEW ATS SHALL BE EQUIPPED WITH THE FOLLOWING:
- * CLOSE DIFFERENTIAL UNDERVOLTAGE SENSORS, ADJUSTABLE
 - * TIME DELAY ENGINE START, ADJUSTABLE
 - * TIME DELAY TRANSFER TO EMERGENCY, ADJUSTABLE
 - * TIME DELAY NEUTRAL, ADJUSTABLE
 - * TIME DELAY RETURN TO NORMAL, ADJUSTABLE
 - * TIME DELAY ENGINE COOLDOWN, ADJUSTABLE
 - * OPERATIONAL MODE SELECTOR SWITCH (OFF, LOAD TEST, ENGINE CRANK, AUTOMATIC)
 - * MOMENTARY LOAD TEST SWITCH
 - * INTERNAL SECONDARY SURGE SUPPRESSION FOR UTILITY SOURCE
 - * EXERCISER CLOCK
 - * SURGE SUPPRESSOR PROTECTION (TVSS).
 - * REMOTE ANNUNCIATOR PANEL WITH CONTROLLER

- AUTOMATIC TRANSFER SWITCH ATS-B**
- PROVIDE ONE 1600 AMPERE, STYLE 3, UL 1008 LISTED; POWER SERIES SERIES ENTRANCE RATED AUTOMATIC TRANSFER SWITCH BY GENERAC OR EQUAL FOR OPERATION AT 277/480V VOLTS, 3 POLE, THREE PHASE, FOUR WIRE, 60 HERTZ, 65,000 AIC. THE TRANSFER SWITCH SHALL BE MECHANICALLY HELD, POSITIVELY INTERLOCKED, NEMA 1 ENCLOSURE, 100% RATED 1600A, 277/480V, 65KAIC, GROUND FAULT PROTECTION, ELECTRONIC TRIP UNIT WITH LCO LSIG MAIN CIRCUIT BREAKER BY SIEMENS. NEW ATS SHALL BE EQUIPPED WITH THE FOLLOWING:
- * CLOSE DIFFERENTIAL UNDERVOLTAGE SENSORS, ADJUSTABLE
 - * TIME DELAY ENGINE START, ADJUSTABLE
 - * TIME DELAY TRANSFER TO EMERGENCY, ADJUSTABLE
 - * TIME DELAY NEUTRAL, ADJUSTABLE
 - * TIME DELAY RETURN TO NORMAL, ADJUSTABLE
 - * TIME DELAY ENGINE COOLDOWN, ADJUSTABLE
 - * OPERATIONAL MODE SELECTOR SWITCH (OFF, LOAD TEST, ENGINE CRANK, AUTOMATIC)
 - * MOMENTARY LOAD TEST SWITCH
 - * INTERNAL SECONDARY SURGE SUPPRESSION FOR UTILITY SOURCE
 - * EXERCISER CLOCK
 - * SURGE SUPPRESSOR PROTECTION (TVSS).
 - * REMOTE ANNUNCIATOR PANEL WITH CONTROLLER

- AUTOMATIC TRANSFER SWITCH ATS-C**
- PROVIDE ONE 1200 AMPERE, STYLE 3, UL 1008 LISTED; POWER SERIES SERIES ENTRANCE RATED AUTOMATIC TRANSFER SWITCH BY GENERAC OR EQUAL FOR OPERATION AT 277/480V VOLTS, 3 POLE, THREE PHASE, FOUR WIRE, 60 HERTZ, 65,000 AIC. THE TRANSFER SWITCH SHALL BE MECHANICALLY HELD, POSITIVELY INTERLOCKED, NEMA 1 ENCLOSURE, 100% RATED 1200A, 277/480V, 65KAIC, GROUND FAULT PROTECTION, ELECTRONIC TRIP UNIT WITH LCO LSIG MAIN CIRCUIT BREAKER BY SIEMENS. NEW ATS SHALL BE EQUIPPED WITH THE FOLLOWING:
- * CLOSE DIFFERENTIAL UNDERVOLTAGE SENSORS, ADJUSTABLE
 - * TIME DELAY ENGINE START, ADJUSTABLE
 - * TIME DELAY TRANSFER TO EMERGENCY, ADJUSTABLE
 - * TIME DELAY NEUTRAL, ADJUSTABLE
 - * TIME DELAY RETURN TO NORMAL, ADJUSTABLE
 - * TIME DELAY ENGINE COOLDOWN, ADJUSTABLE
 - * OPERATIONAL MODE SELECTOR SWITCH (OFF, LOAD TEST, ENGINE CRANK, AUTOMATIC)
 - * MOMENTARY LOAD TEST SWITCH
 - * INTERNAL SECONDARY SURGE SUPPRESSION FOR UTILITY SOURCE
 - * EXERCISER CLOCK
 - * SURGE SUPPRESSOR PROTECTION (TVSS).
 - * REMOTE ANNUNCIATOR PANEL WITH CONTROLLER

revisions:

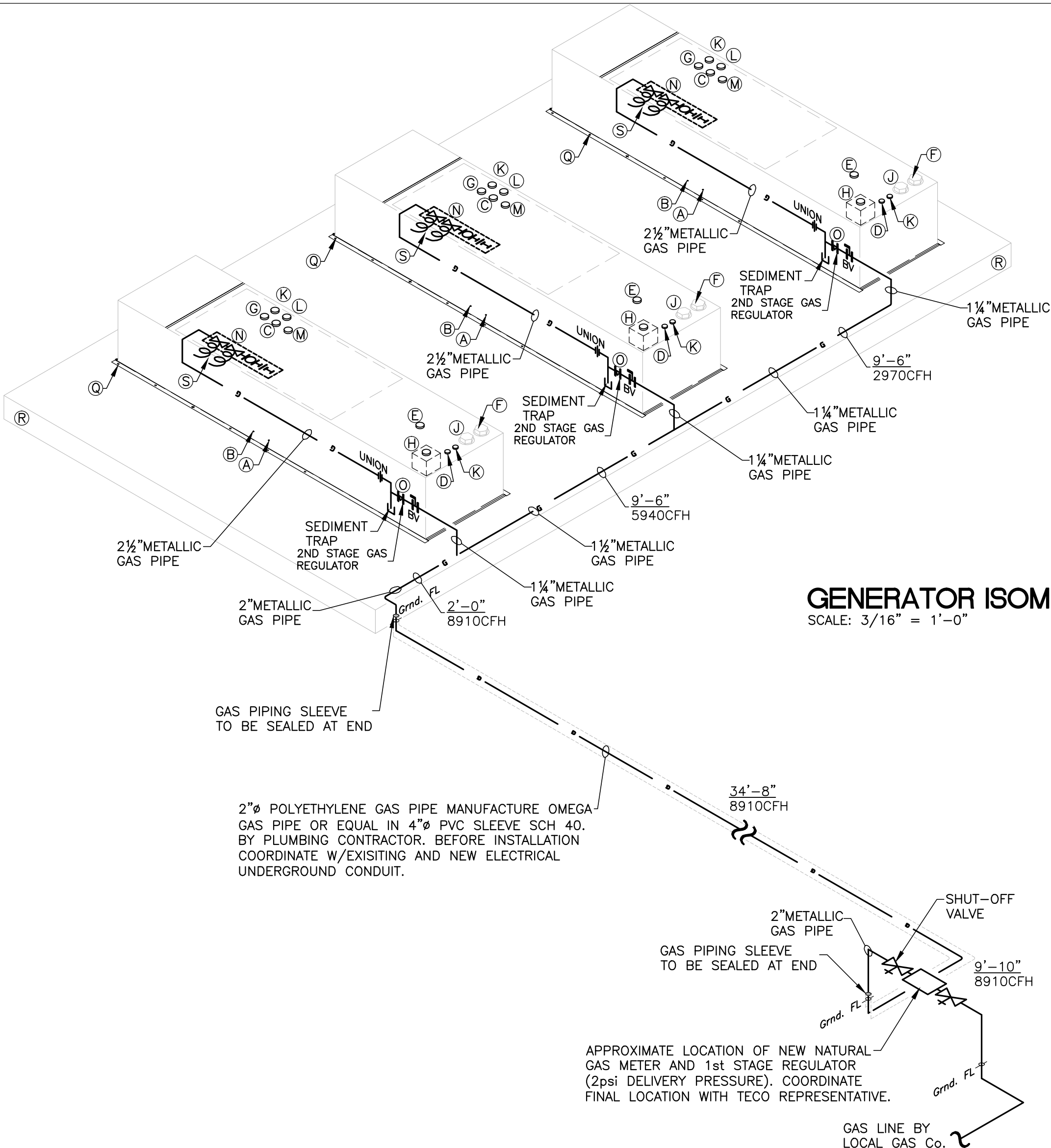
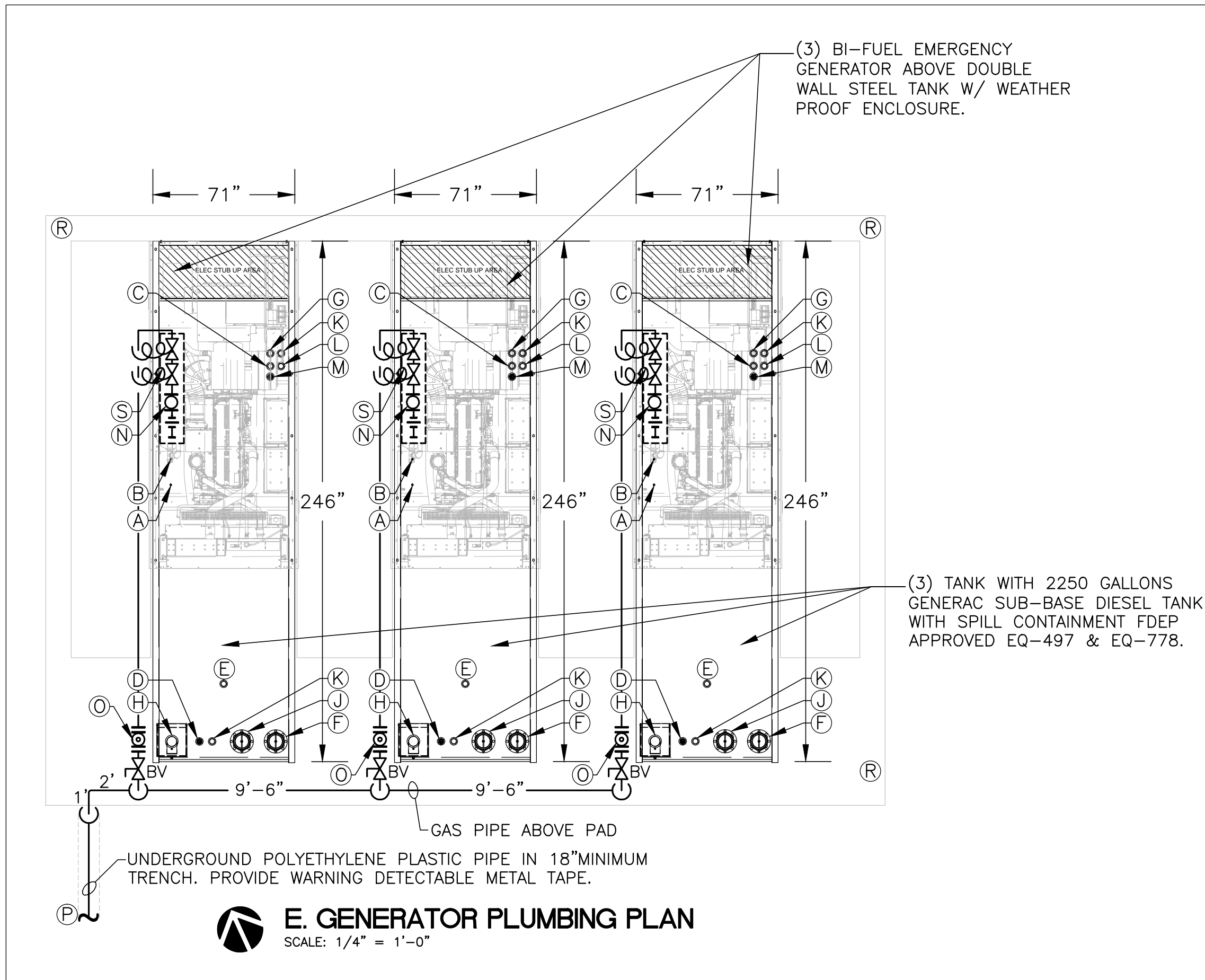
CITY OF PEMBROKE PINES CIVIC CENTER AND CITY HALL
UPGRADE EMERGENCY BACKUP ELECTRICAL SERVICE EQUIPMENT
601 CITY CENTER WAY
PEMBROKE PINES, FL. 33025



JOB NUMBER: 18046

FLORIDA ENGINEERING SERVICES, INC.
FES
...engineering for the future
34 N.W. 168th Street
North Miami Beach, FL 33169
Tel.: (305) 653-0212
E-Mail: ErnestoT@fesinc.biz
Ernesto R. Torres, P.E.
P.E.#: 49958 - Electrical
C.O.A.: EB0003862

Drawn by: ERT
date: MARCH 8, 2019
sheet no:
ES-3
project:



FUEL SYSTEM SPECIFICATIONS

TANK No.1
ABOVE GROUND, OUTDOOR (3) DIESEL SUB-BASE FUEL TANK SERVING GENERATORS. TANKS TO BE AS MANUFACTURED BY ENGINEERING MANUFACTURING CORP. (GENSET SERVICES) (FDEP FILE#EQ-497) OR APPROVED EQUAL EQUIPPED WITH ALL THE FOLLOWING:

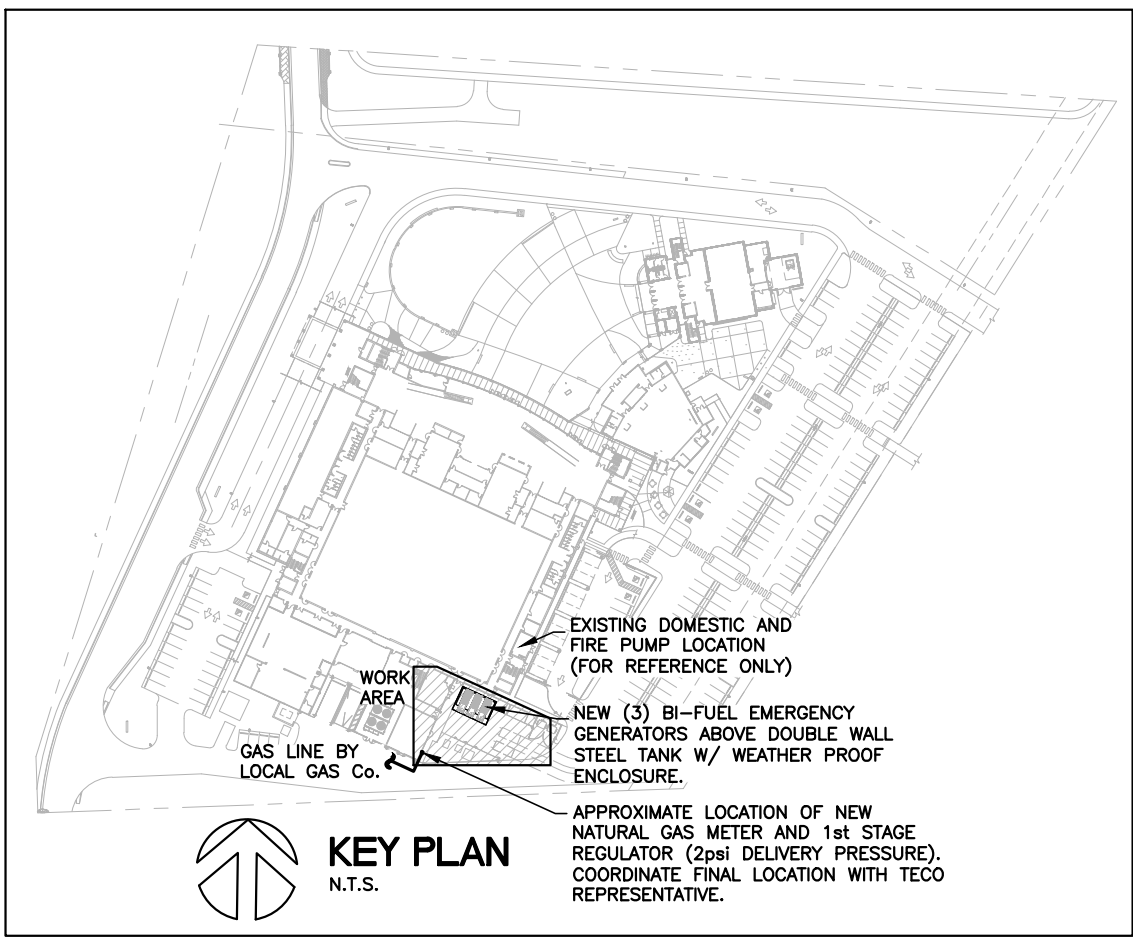
- 2250 GALLON CAPACITY.
- UL-142 FOR SECONDARY CONTAINMENT SEALED
- MEETS NFPA 30, 37 AND 110
- RHINOCOAT™ - TEXTURED POLYESTER POWDER COAT PAINT
- FACTORY PRESSURE TESTED (2 PSI)
- 2" NORMAL (ATMOSPHERIC) SCREENED CAP VENT
- CHECK VALVE IN SUPPLY AND RETURN LINES
- FUEL LEVEL SITE GAUGE / SWING ARM SENDER
- LEAK DETECTION ALARM SWITCH
- LOW/HIGH FUEL LEVEL ALARM SWITCHES
- STRUCTURALLY DESIGNED GENERATOR SUPPORT RAILS
- TILTED INNER TANK FOR EFFICIENT FUEL DRAW
- SLOPED TOP FOR WATER RUN OFF
- CRITICALLY HIGH/LOW FUEL RELAY
- OVERFILL PREVENTION VALVE (2" CAMLOK CONNECTOR) INSTALLED IN FILL/SPILL BUCKET
- ULC LISTED OVERFILL PREVENTION VALVE
- DOUBLE WALL ELECTRONIC LEAK DETECTOR SHALL BE CONNECTED TO GENERATOR CONTROL PANEL AND ANNUNCIATE AT GENERATOR ANNUNCIATOR.
- FDEP PACKAGE: 7-1/2 GALLON FILL/SPILL BUCKET AND HIGH FUEL SWITCH SET @ 90%.

GENERAL PLUMBING NOTES

1. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS, UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEAD ROOM, AND SPACE CONDITIONS AT ALL POINTS. WHERE HEAD ROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR FOR PROPER EXECUTION OF THE WORK.
2. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING, ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE ARCHITECT/ENGINEER IN AMPLIE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
3. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS OF WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF THE CONTRACTOR.
4. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT HIS EXPENSE, ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCES WITH OTHER TRADES.
5. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS ASSOCIATION DUES, ROYALTIES, AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. HE SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OR ORDINANCES.
6. PROVIDE MEANS "FURNISHED AND INSTALL".
7. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.
8. AT COMPLETION OF JOB THE PLUMBING CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF REPRODUCIBLE SEPIAS SHOWING THE EXACT INSTALLATION.
9. PLUMBING CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS REQUIRED BY CODE. TEST SHALL BE WITNESSED AND APPROVED BY PROPER AUTHORITIES.
10. THE PLUMBING CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ANY BREAKDOWN OCCURRING IN FIRST YEAR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.

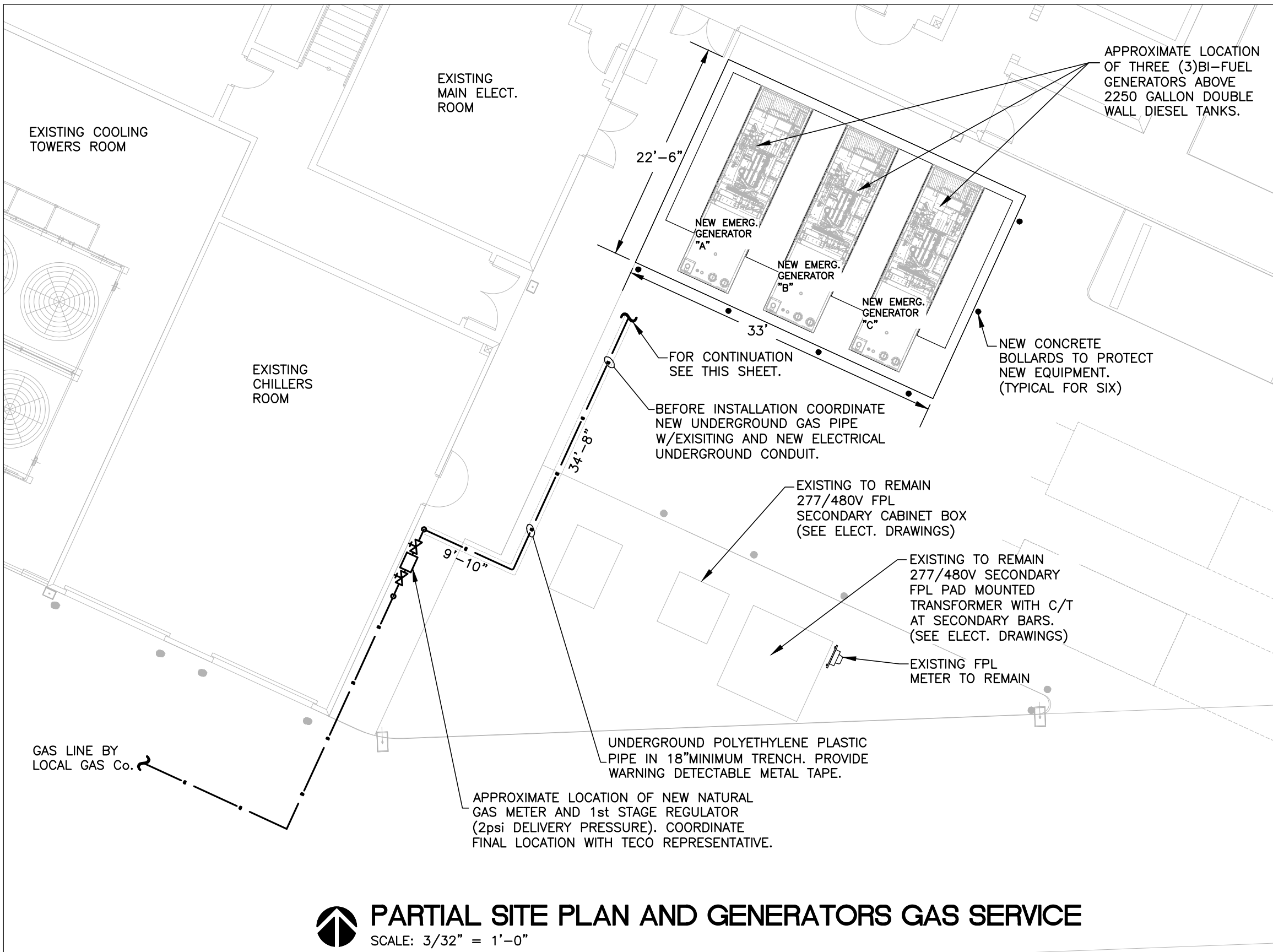
DRAWING LEGEND

- Ⓐ 1/2" NPT FUEL SUPPLY DROP TUBE WITH 1/2" INLINE CHECK VALVE
- Ⓑ 1/2" NPT FUEL RETURN DROP TUBE
- Ⓒ 2" NPT LOW FUEL SWITCH SET AT 25%
- Ⓓ 1-1/2" NPT FUEL GAUGE
- Ⓔ 2" NPT NORMAL VENT EXTENDED 12" ABOVE GRADE
- Ⓕ 6" ANSI FLANGE EMERGENCY VENT (PRIMARY)
- Ⓖ 2" NPT BASIN DRAIN AND LEAK DETECTION SWITCH
- Ⓗ 4" NPT 7-1/2 GALLON LOCKABLE FILL/SPILL BUCKET WITH OPV SET AT 95%
- Ⓙ 6" ANSI FLANGE EMERGENCY VENT (SECONDARY)
- Ⓚ 2" NPT SPARE PORT
- Ⓛ 2" NPT HIGH FUEL SWITCH SET AT 90%
- Ⓜ 1-1/2" NPT GENERAC COMPATIBLE FUEL SENDER
- Ⓝ GAS SERVICE TO BI-FUEL SYSTEM GAS TRAIN. INSIDE GENERATOR ENCLOSURE.
- Ⓞ GAS REGULATOR (1psi DELIVERY PRESSURE)
- Ⓟ FOR CONTINUATION SEE PARTIAL SITE PLAN IN THIS SHEET.
- Ⓠ ALL PAD MOUNTED EQUIPMENT SHALL BE SECURELY FASTENED/BOLTED TO CONC. PAD.
- Ⓡ CONCRETE PAD.
- Ⓢ DUAL FUEL SHUTOFF SOLENOIDS VALVES



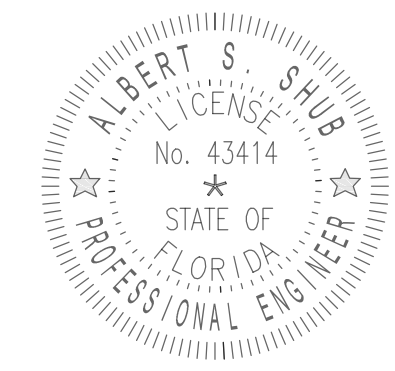
ADDITIONAL COMPLIANCE NOTES

1. THESE ENGINEERING DOCUMENTS AND THE RESULTING INSTALLATION OF THE DEPICTED PLUMBING SYSTEMS FOR THIS PROJECT ARE INTENDED TO CONFORM TO THE FOLLOWING CODES AND STANDARDS:
 - FLORIDA BUILDING CODE 6TH EDITION 2017
 - FLORIDA BUILDING CODE FUEL GAS 6TH EDITION 2017
 - FLORIDA BUILDING CODE RESIDENTIAL 6TH EDITION 2017
 - FLORIDA BUILDING CODE PLUMBING 6TH EDITION 2017 AND ALL REFERENCED STANDARDS LISTED IN CHAPTER 15 AS APPLICABLE TO PIPING, FITTINGS, JOINING METHODS/MATERIALS, PLUMBING FIXTURES, AND EQUIPMENT.
 - FLORIDA ENERGY CONSERVATION CODE 6TH EDITION 2017
 - FLORIDA FIRE PREVENTION CODE 6TH EDITION 2017
 - AMERICAN SOCIETY OF PLUMBING ENGINEERS DESIGN HANDBOOKS
 - AMERICANS WITH DISABILITIES ACT 2014.
 - FAIR HOUSING ACT.
2. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
3. ALL EQUIPMENT IS TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, AND RECOMMENDATIONS FOR SAFE AND EFFICIENT OPERATIONS. ALL MANUFACTURER OPERATION AND MAINTENANCE GUIDES SHALL BE ISSUED TO THE BUILDING OPERATOR AFTER SUCCESSFUL COMPLETION OF MAINTENANCE AND/OR PREVENTATIVE MAINTENANCE PROCEDURES TRAINING OF THE BUILDING OPERATORS.



revisions:

CITY OF PEMBROKE PINES CIVIC CENTER AND CITY HALL
UPGRADE EMERGENCY BACKUP ELECTRICAL SERVICE EQUIPMENT
601 CITY CENTER WAY
PEMBROKE PINES, FL. 33025



JOB NUMBER: 18046



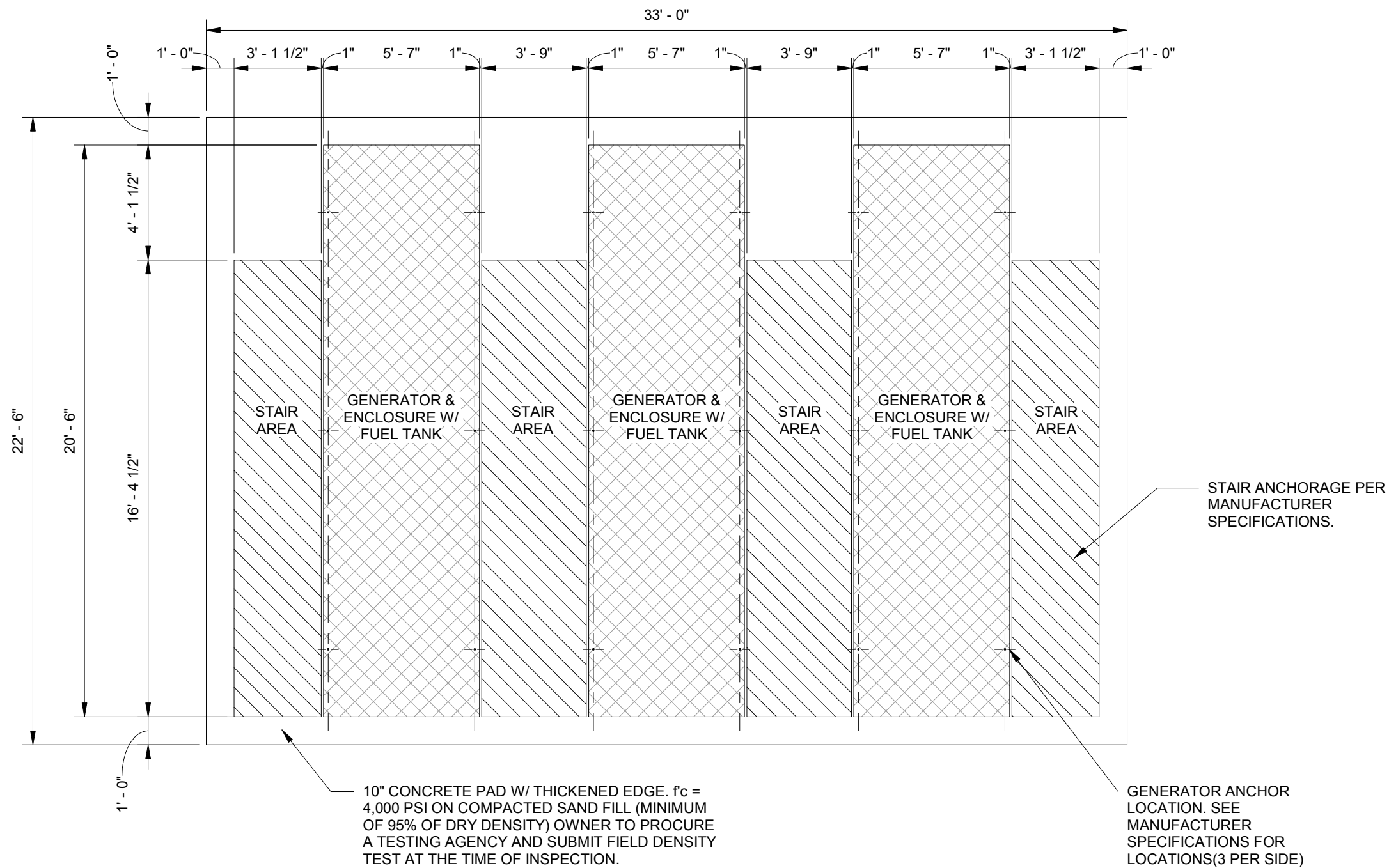
drawn by: AS

date: MARCH 8, 2019

sheet no:

P-1

project:



1 GENERATOR PAD PLAN VIEW
1/4" = 1'-0"

GMG

STRUCTURAL ENGINEERS

14335 COMMERCE WAY
MIAMI LAKES, FLORIDA 33016
PH: 786-646-2344
PE #74028 CA #30882

WWW.GARCIAMULLIN.COM

PEMBROKE PINES CITY HALL EMERGENCY GENERATORS

601 CITY CENTER WAY PEMBROKE PINES, FL 33025

No.	Description	Date

GENERATOR PLAN

Project number 19013

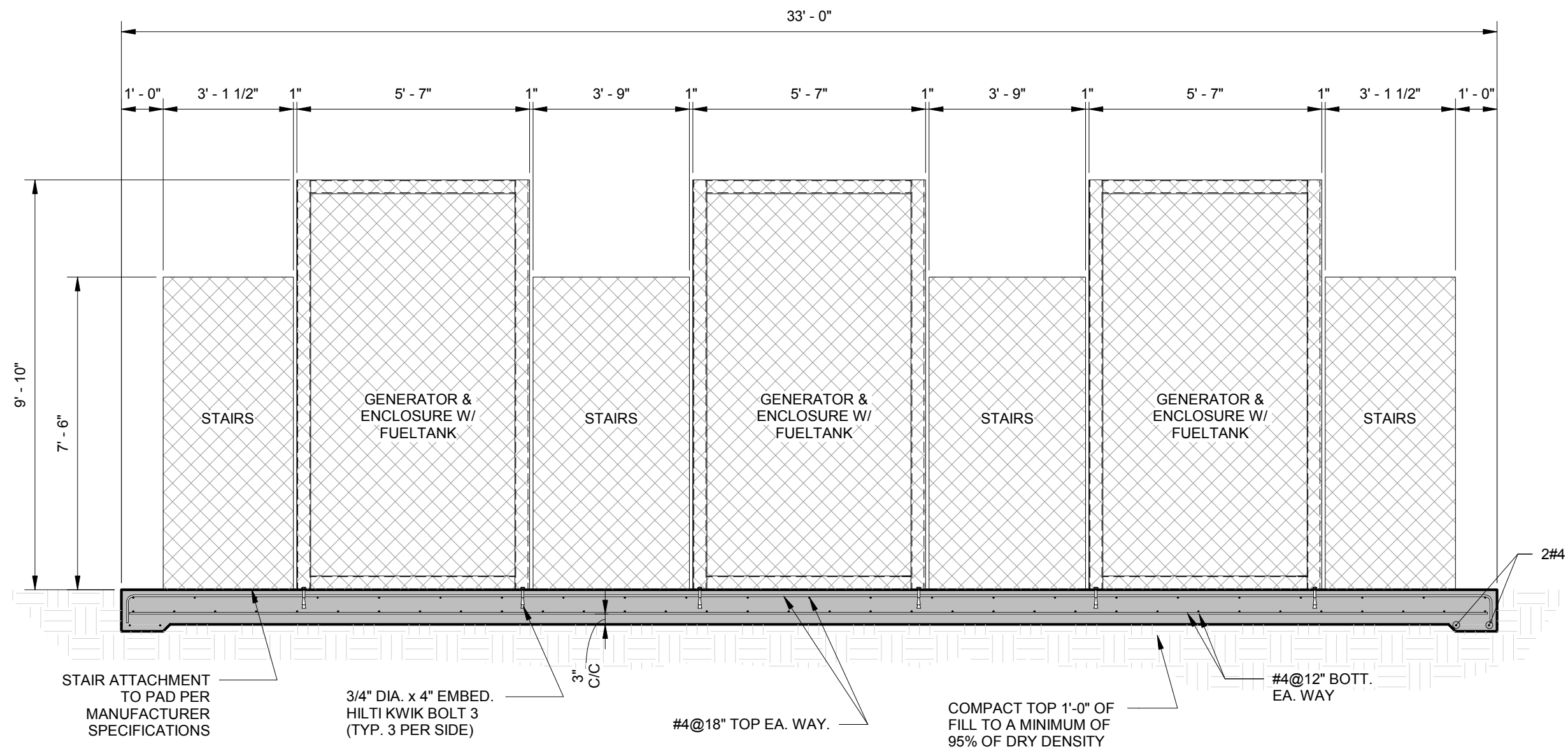
Date 03/05/2019

Drawn by EG

Checked by EG

S.1

Scale 1/4" = 1'-0"



1 GENERATOR SECTION
3/8" = 1'-0"

GMG

STRUCTURAL ENGINEERS

14335 COMMERCE WAY
MIAMI LAKES, FLORIDA 33016
PH: 786-646-2344
PE #74028 CA #30882

WWW.GARCIAMULLIN.COM

PEMBROKE PINES CITY HALL EMERGENCY GENERATORS

601 CITY CENTER WAY PEMBROKE PINES, FL 33025

No.	Description	Date

GENERATOR SECTION		
Project number	19013	S.2
Date	03/05/2019	
Drawn by	EG	
Checked by	EG	Scale 3/8" = 1'-0"

PERMIT CALCULATIONS

03/10/2017

Pembroke Pines City Hall Emergency Generators

601 CITY CENTER WAY

Pembroke Pines, FL 33024

GMG PROJ. #:

19013

GMG
STRUCTURAL ENGINEERS

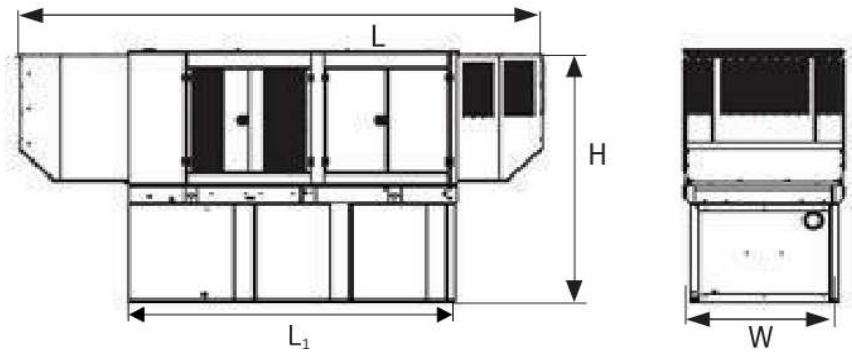
TABLE OF CONTENTS

1. CALCULATIONS	
1.01 OVERTUNING & UPLIFT ANALYSIS.....	01
1.02 HILTI ANCHOR CALCULATIONS.....	04
1.03 CONCRETE PAD DESIGN.....	12

JORGE GARCIA
FLORIDA P.E. #74028

GENERATOR PAD WIND LOAD CALCULATIONS**Generator Dimensions and Weight:**

	(in)
L:	246
L1:	246
H:	118
W:	95
	(lbs)
Tank Weight (Empty):	4750
Enclosure Weight & Generator:	12139
Total Weight:	16889

**Wind Loads:**

Exposure Category: C

$$F = q_z * G * C_f * A_f \quad (29.5-1, \text{"DESIGN WIND LOADS OTHER STRUCTURES"} \text{ ASCE } 7)$$

$$A_f = L \times H = 201.6 \text{ sq. ft}$$

$$G = 0.85$$

$$q_z = .00256 * K_z * K_{zt} * K_d * V^2 \quad (29.3-1, \text{"DESIGN WIND LOADS OTHER STRUCTURES"} \text{ ASCE } 7)$$

$K_z =$	0.85	(Table 29.3-1)
$K_d =$	0.90	(Table 26.6-1)
$K_{zt} =$	1	(Section 26.8.2)
$V =$	175 mph	

$$q_z = 60.0 \text{ psf}$$

$C_f = 1.3 \text{ for } h/D = 1$	$H/W =$	1.2
$C_f = 1.4 \text{ for } h/D = 7$		

Using Linear Interpolation:	$C_f =$	1.30
-----------------------------	---------	------

$$F = 13.40 \text{ kips}$$

Overturning Moment:

$M = F * H/2$	65.9 k-ft
$M/ft = M/L1 =$	3.21 k-ft/ft

Self Weight Reaction:

$SW \text{ (Per side)} =$	8444.5 lbs
$SW/ft = SW/L1 =$	0.41 k/ft

Uplift Reaction:

$$R_w = M/ft / W = 0.41 \text{ k/ft}$$

$$R_u = .9D - 1.0W = -0.04 \text{ k/ft}$$

Anchoring of tank must be designed to resist this uplift loading.

Frame comes with (3) mounting points per side.

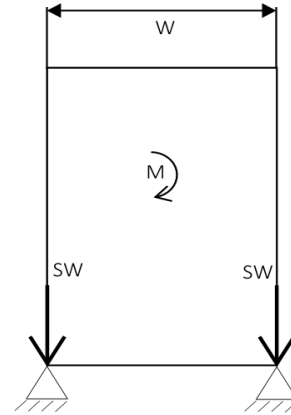
$$\text{Tension force per anchor} = R_u * L_1 / 3$$

$$T = -0.2 \text{ kips of tension per anchor}$$

$$\text{Shear force per anchor} = F / 6$$

$$V = 2.2$$

Use Hilti Kwik Bolt 3 5/8" Dia x 4" embedment.

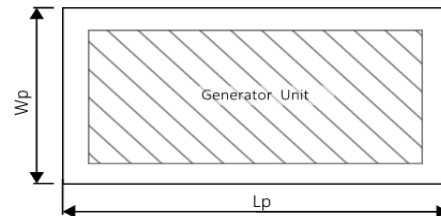
**Concrete Pad:**

$$W_p = 33 \text{ ft}$$

$$L_p = 21 \text{ ft}$$

$$\text{Pad Thickness} = 0.67 \text{ ft}$$

$$\text{Weight of Pad} = 69.30 \text{ kips}$$



Per Florida Building Code Section 1806.2, Assume the value of 2000 psf for bearing & .25 coefficient of friction

Overturning w/ 1.5 Safety Factor

$$\text{Convert overturning Moment to Service} = M * .6$$

$$M_s = 39.5 \text{ k-ft}$$

$$\begin{aligned} \text{Weight of Pad} + \\ \text{Weight of Unit} &= 86.19 \text{ kips} \end{aligned}$$

$$\begin{aligned} \text{Pad Capacity} = \\ \text{Weight} * W_p / 2 &= 1422.1 \text{ k-ft} \end{aligned}$$

$$\text{Safety Ratio} = 36.0 > 1.5 \text{ Ok}$$

Sliding Check:

$$\text{Service Level Shear} = 8.0$$

$$\begin{aligned} \text{Friction Capacity w/} \\ \text{Thickened Edge} = W \\ * .25 &= 21.5 \text{ kips} \quad \text{OK for Sliding} \end{aligned}$$

$$\text{Max Applied Soil Pressure} = 340 \text{ psf (See Safe Output)}$$

$$\text{Reinf. Required} = \#4@12" \text{ bottom, } f'_c = 4 \text{ ksi}$$

Flooding Uplift Check:

$$H_f = 48 \text{ in}$$

$$H_{\text{water}} = H_f * 62.4 \text{ pcf} = 249.6 \text{ psf}$$

$$\text{Hydrostatic force} = 40508 \text{ lb}$$

$$H_{\text{water}} * W * L_1 =$$

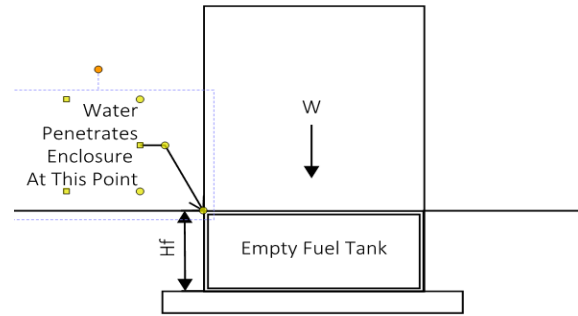
$$\text{Net Uplift (Ultimate)} = .9 D + 1.6 H$$

$$= 12.8 \text{ kips}$$

$$\text{Uplift per Anchor} = 0.80 \text{ Kips Per Anchor}$$

	Flooding	Wind
Uplift (k/anchor)	0.80	-0.2

Uplift Due to Wind Controls



Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:

Address:

Phone | Fax:

Design:

Fastening point:

Concrete - Mar 5, 2019

Page:

Specifier:

E-Mail:

Date:

1

3/5/2019

Specifier's comments:

1 Input data

Anchor type and diameter:

Kwik Bolt TZ - CS 3/4 (3 1/4)

Item number:

not available

Effective embedment depth:

$h_{ef,act} = 3.250$ in., $h_{nom} = 3.813$ in.

Material:

Carbon Steel

Evaluation Service Report:

ESR-1917

Issued | Valid:

4/1/2018 | 5/1/2019

Proof:

Design Method ACI 318-14 / Mech.

Stand-off installation:

Profile:

no profile

Base material:

cracked concrete, 4000, $f'_c = 4,000$ psi; $h = 10.000$ in.

Installation:

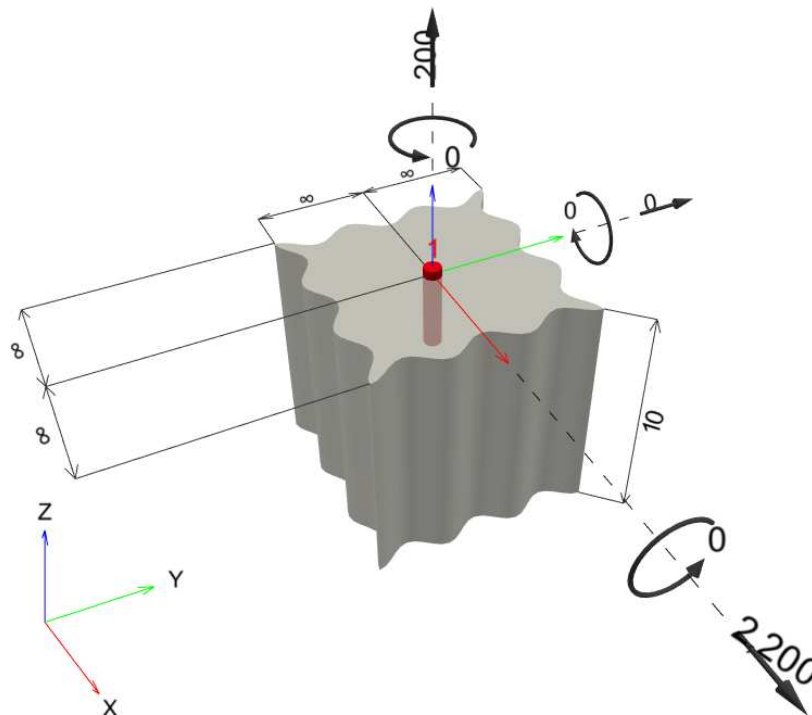
hammer drilled hole, Installation condition: Dry

Reinforcement:

tension: condition B, shear: condition B; no supplemental splitting reinforcement present
edge reinforcement: none or < No. 4 bar



Geometry [in.] & Loading [lb, in.lb]



Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:		Page:	2
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

2 Load case/Resulting anchor forces

Load case: Design loads

Anchor reactions [lb]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	200	2,200	2,200	0

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0 [lb]
resulting compression force in (x/y)=(0.000/0.000): 0 [lb]

3 Tension load

	Load N_{ua} [lb]	Capacity ϕN_n [lb]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	200	18,840	2	OK
Pullout Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	200	4,095	5	OK

* highest loaded anchor **anchor group (anchors in tension)

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-1917
 $\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in. ²]	f_{uta} [psi]
0.24	106,000

Calculations

N_{sa} [lb]
25,120

Results

N_{sa} [lb]	ϕ_{steel}	ϕN_{sa} [lb]	N_{ua} [lb]
25,120	0.750	18,840	200

Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:		Page:	3
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

3.2 Concrete Breakout Failure

$$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \quad \text{ACI 318-14 Eq. (17.4.2.1a)}$$

$$\phi N_{cb} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

$$A_{Nc} \text{ see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)}$$

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-14 Eq. (17.4.2.1c)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.5b)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.7b)}$$

$$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5} \quad \text{ACI 318-14 Eq. (17.4.2.2a)}$$

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
3.250	∞	1.000	12.000	17	1.000	4,000

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [lb]
95.06	95.06	1.000	1.000	6,299

Results

N_{cb} [lb]	$\phi_{concrete}$	ϕN_{cb} [lb]	N_{ua} [lb]
6,299	0.650	4,095	200

Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:		Page:	4
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

4 Shear load

	Load V_{ua} [lb]	Capacity ϕV_n [lb]	Utilization $\beta_v = V_{ua}/\phi V_n$	Status
Steel Strength*	2,200	8,888	25	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength**	2,200	8,819	25	OK
Concrete edge failure in direction **	N/A	N/A	N/A	N/A

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-1917
 $\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in. ²]	f_{uta} [psi]
0.24	106,000

Calculations

V_{sa} [lb]
13,674

Results

V_{sa} [lb]	ϕ_{steel}	ϕV_{sa} [lb]	V_{ua} [lb]
13,674	0.650	8,888	2,200

Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:		Page:	5
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

4.2 Pryout Strength

$$V_{cp} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right] \quad \text{ACI 318-14 Eq. (17.5.3.1a)}$$

$$\phi V_{cp} \geq V_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

$$A_{Nc} \text{ see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)}$$

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-14 Eq. (17.4.2.1c)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.5b)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.7b)}$$

$$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5} \quad \text{ACI 318-14 Eq. (17.4.2.2a)}$$

Variables

k_{cp}	h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2	3.250	∞	1.000
c_{ac} [in.]	k_c	λ_a	f'_c [psi]
12.000	17	1.000	4,000

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [lb]
95.06	95.06	1.000	1.000	6,299

Results

V_{cp} [lb]	$\phi_{concrete}$	ϕV_{cp} [lb]	V_{ua} [lb]
12,599	0.700	8,819	2,200

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.049	0.249	5/3	11	OK

$$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} \leq 1$$

Hilti PROFIS Engineering 3.0.39**www.hilti.com**

Company:		Page:	6
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (ETAG 001/Annex C, EOTA TR029, etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with FEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Refer to the manufacturer's product literature for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to <https://submittals.us.hilti.com/PROFISAnchorDesignGuide/>
- Hilti post-installed anchors shall be installed in accordance with the Hilti Manufacturer's Printed Installation Instructions (MPII). Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

Hilti PROFIS Engineering 3.0.39

www.hilti.com

Company:		Page:	7
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

7 Installation data

Profile: -

Hole diameter in the fixture: -

Plate thickness (input): -

Drilling method: Hammer drilled

Cleaning: Manual cleaning of the drilled hole according to instructions for use is required.

Anchor type and diameter: Kwik Bolt TZ - CS 3/4 (3 1/4)

Item number: not available

Installation torque: 1,320 in.lb

Hole diameter in the base material: 0.750 in.

Hole depth in the base material: 4.000 in.

Minimum thickness of the base material: 5.500 in.

Hilti KB-TZ stud anchor with 3.81252 in embedment, 3/4 (3 1/4), Carbon steel, installation per ESR-1917

7.1 Recommended accessories

Drilling	Cleaning	Setting
<ul style="list-style-type: none"> • Suitable Rotary Hammer • Properly sized drill bit 	<ul style="list-style-type: none"> • Manual blow-out pump 	<ul style="list-style-type: none"> • Torque wrench • Hammer

Coordinates Anchor in.

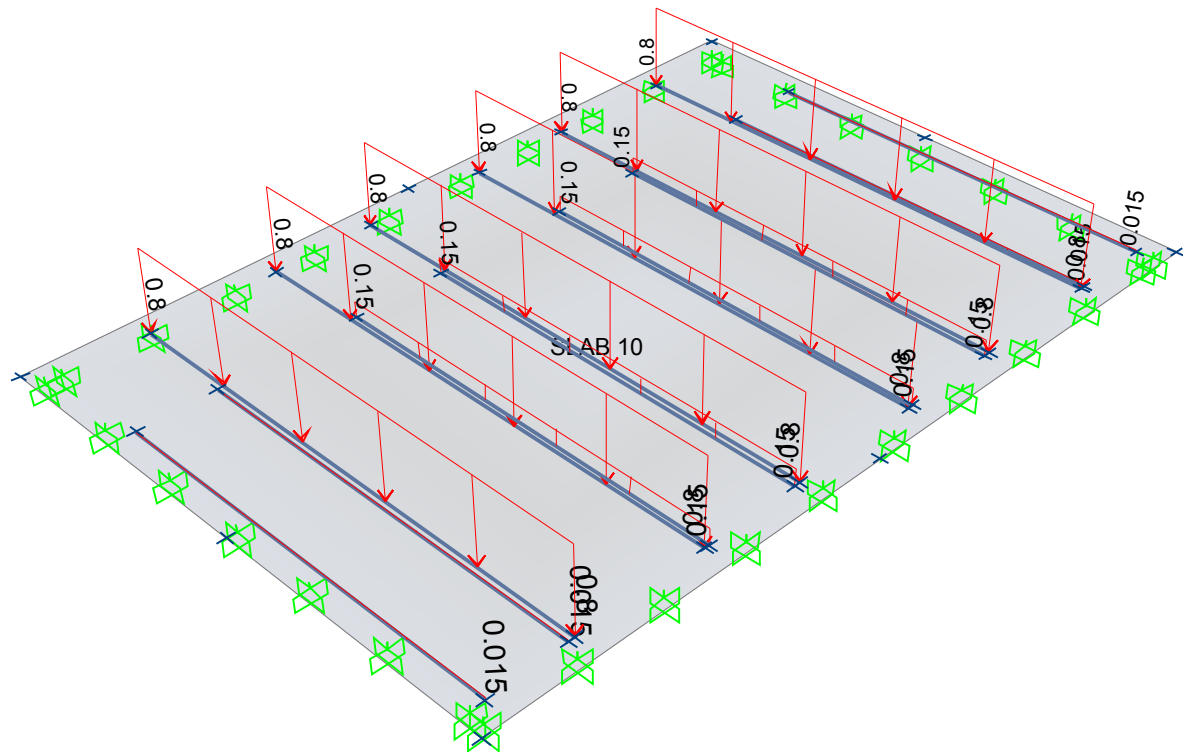
Anchor	x	y	C _{-x}	C _{+x}	C _{-y}	C _{+y}
1	0.000	0.000	-	-	-	-

Hilti PROFIS Engineering 3.0.39**www.hilti.com**

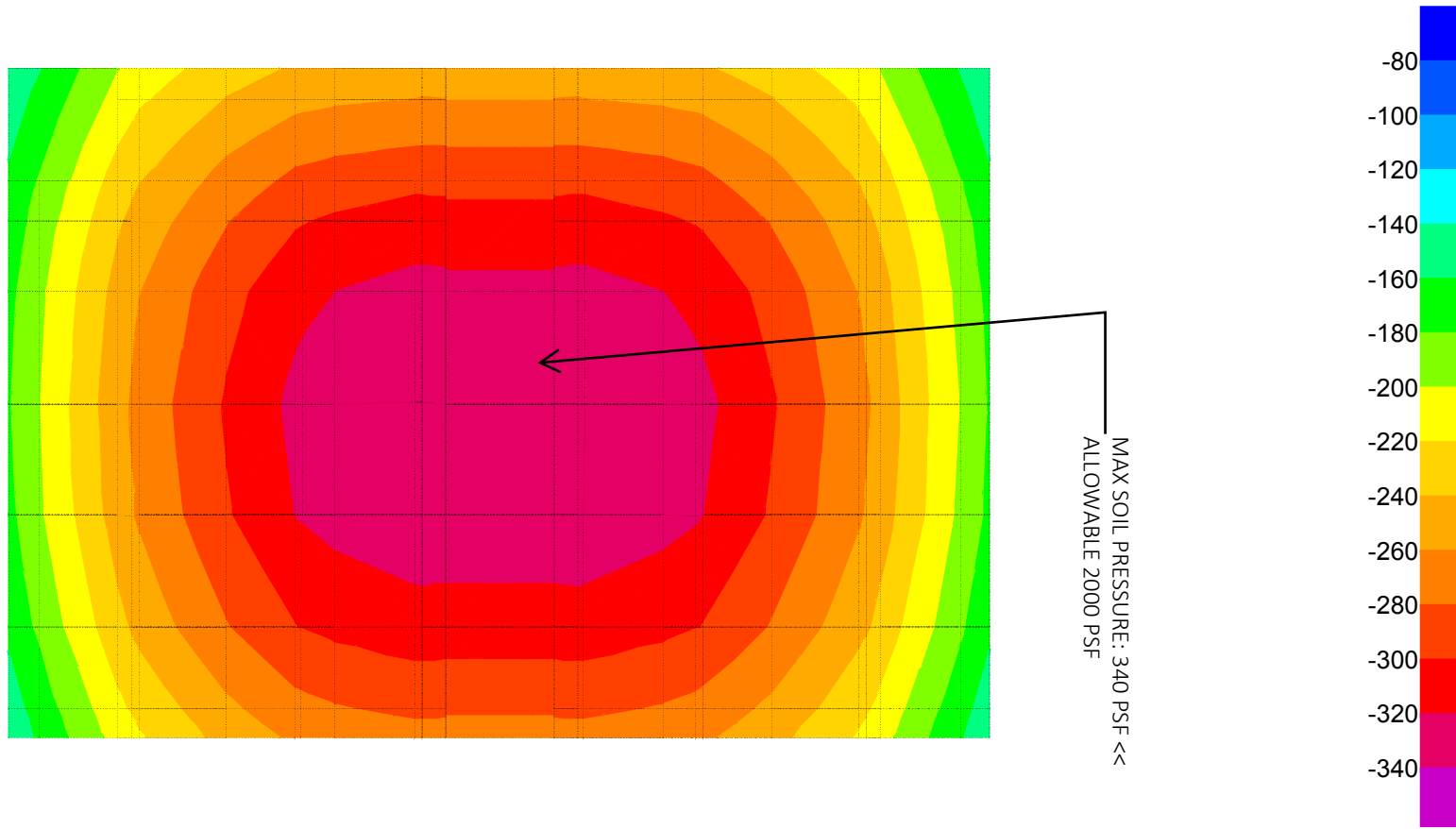
Company:		Page:	8
Address:		Specifier:	
Phone Fax:		E-Mail:	
Design:	Concrete - Mar 5, 2019	Date:	3/5/2019
Fastening point:			

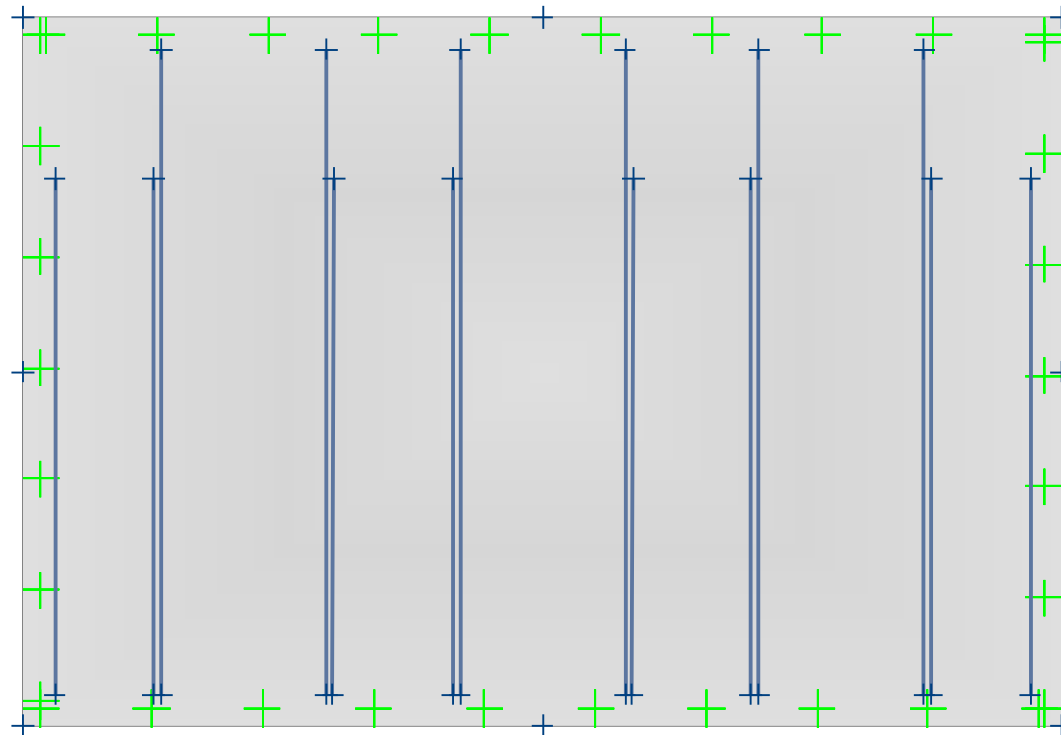
8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.



kip - ft





No additional reinforcement is required above
#4@12" bottom.

Slab Strip Design - Layers A, B - Bottom Reinforcement Intensity (Enveloping Flexural) [in²/ft] - Additional to #4 @ 12 in (Bot)

MB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

ATTACHMENT N

GENERAC | **INDUSTRIAL POWER**

Standby Power Rating

500 kW, 625 kVA, 60 Hz

Prime Power Rating*

450 kW, 563 kVA, 60 Hz



*Assembled in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

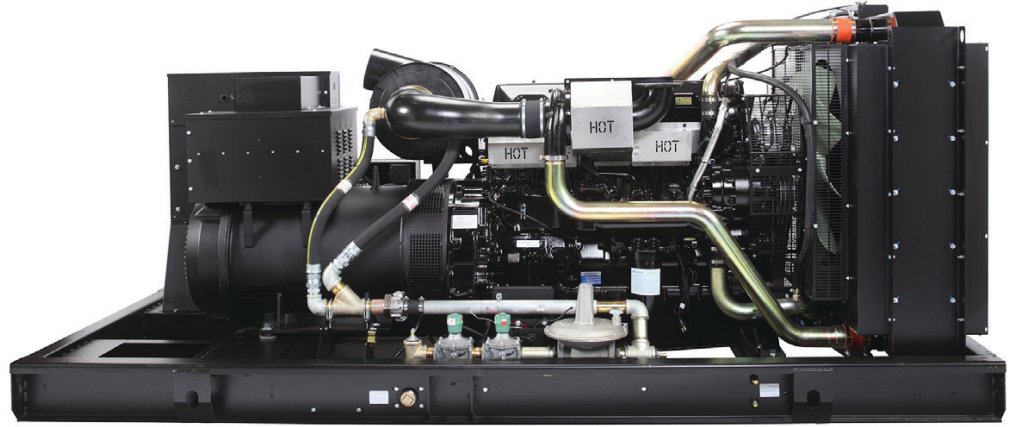


Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL489



CSA 22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10,
ICC-ES AC-156 (2012)

Codes or standards compliance listing may not be available with all configurations. Contact factory for details.

Powering Ahead

Generac Bi-Fuel™ generators start on diesel fuel and add natural gas as load is applied until the unit runs primarily on natural gas. Generac's Bi-Fuel generators are fully integrated solutions, not aftermarket conversions in the field. That means every component is specifically designed, engineered and factory-validated to work together. Generac Bi-Fuel generators have the added benefit of being EPA-compliant from the factory.

RISK MITIGATION VIA FUEL REDUNDANCY

Because nobody can predict how long a power outage will last, many diesel-fueled standby power systems are sized for extended running times. Nevertheless, onsite diesel fuel supplies are limited, and infrastructure damage could make refueling difficult. Generac Bi-Fuel generators make the most of an onsite diesel fuel supply by running primarily on natural gas. That means less onsite diesel fuel is required and running times will be greatly extended compared to diesel-only solutions. And because the natural gas infrastructure tends not to be affected by the same conditions that lead to power outages, fuel reliability is improved.

LOWER TOTAL COST OF OWNERSHIP

Because natural gas costs less than diesel, fuel costs are significantly reduced over the long term. And since less onsite diesel fuel is required for long running times, installation, operational and maintenance costs are reduced.

SCALABILITY AS PART OF A MODULAR POWER SYSTEM

Generac Bi-Fuel generators can be configured as part of a Modular Power System (MPS)—connected via integrated paralleling with other Generac generators. This makes the system scalable, meaning there is no need to install more power than you need.

CODE COMPLIANCE

Generac Bi-Fuel generators meet the onsite fuel requirements for emergency systems as referenced in NEC700 and NFPA 110. Less onsite diesel fuel means easier permitting. And indoor fuel installations with capacity limits per NFPA or local codes become a viable option.

MB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

ATTACHMENT N

GENERAC® | **INDUSTRIAL POWER**

STANDARD OPTIONS

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Critical Exhaust Silencer (Enclosed Only)
- Factory Filled Oil and Coolant
- Engine Coolant Heater

Fuel System

- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line - NPT Connection

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Amortisseur Winding
- Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping (Enclosed Only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted on the Discharge Hood (Enclosed Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosure)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

TANK (If Selected)

- UL 142
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve in Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Hardware

CONTROL SYSTEM

Digital G Paralleling Control Panel- Touch-screen

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3-Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)

- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

PARALLELING CONTROLS

- Auto-Synchronization Process
- Isochronous Load Sharing
- Reverse Power Protection
- Maximum Power Protection
- Electrically Operated, Mechanically Held Paralleling Switch
- Sync Check System
- Independent On Board Paralleling

- Shunt Trip and Auxiliary Contact

MB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Air Filter Restriction Indicator
- Stone Guard (Open Set Only)

ELECTRICAL SYSTEM

- 10A UL Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- Electronic Trip Breakers

GENERATOR SET

- GenLink® Communications Software (English Only)
- Extended Factory Testing
- Up to 200 MPH Wind Load Rating*
- IBC Seismic Certification
- 12 Position Load Center
- 120V GFCI and 240V Convenience Outlets

ENCLOSURE

- Weather Protected
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- AC/DC Enclosure Lighting Kit

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indicator with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 10A Run Relay
- Ground Fault Indication and Protection Functions
- Programmable Logic Full Auto Back-Up Control (PLS) for PM-SC

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM

- Fluid Containment Pan

CONTROL SYSTEM

- Battery Disconnect Switch

GENERATOR SET

- Special Testing

ENCLOSURE

- Enclosure Ambient Heaters

TANKS

- Overfill Protection Valve
- UL 2085 Tank
- ULC S-601 Tank
- Stainless Steel Tank
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- Vent Extensions

*Consult factory for availability

MB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

ATTACHMENT N

GENERAC | **INDUSTRIAL POWER**

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (Cu In)	15.2 (927.56)
Bore - mm (in)	137 (5.39)
Stroke - mm (in)	171 (6.73)
Compression Ratio	16.0:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	4-Valve
Piston Type	Aluminum
Crankshaft Type	I-Beam Section

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	45 (47.55)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Centrifugal Type, Belt-Driven
Fan Type	Pusher
Fan Speed (rpm)	1,658
Fan Diameter - mm (in)	927 (36.5)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel #2
Carburetor	ASTM
Fuel Filtering (microns)	Primary 10 - Secondary 2
Fuel Inject Pump Make	Electronic
Injector Type	MEUI
Engine Type	Pre-Combustion
Fuel Supply Line - mm (in.)	12.7 (0.5) NPT
Fuel Return Line - mm (in.)	12.7 (0.5) NPT
Required Natural Gas Pressure- psi	1.0
Maximum Required Volume of Natural Gas Needed- cfm	45

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	(2) - 12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	WEG
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<3%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Permanent Magnet
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

MB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

Standby		
Three-Phase 277/480 VAC @0.8pf	500 kW	Amps: 752
Three-Phase 346/600 VAC @0.8pf	500 kW	Amps: 601

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip							
480 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	500	457	686	914	1,143	1,371	1,600
Upsize 1	642	471	707	943	1,179	1,414	1,650
Upsize 2	832	757	1,136	1,514	1,893	2,271	2,650

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)		Diesel – gph (lph)	
12 (3.7)		Percent Load	Standby
Total Fuel Pump Flow (Combustion + Return)- gal/hr (l/hr)		25%	10.5 (39.7)
		50%	19.5 (73.8)
		75%	23.7 (89.7)
		100%	31.2 (118.1)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

** Natural Gas substitution may vary based on the application and load conditions
Please consult factory for additional details on fuel consumption

COOLING

		Standby
Coolant Flow per Minute	gpm (lpm)	114.1 (432)
Coolant System Capacity	gal (L)	13 (49)
Heat Rejection to Coolant	BTU/hr	1,198,080
Inlet Air	cfm (m ³ /min)	30,582 (866)
Max. Operating Ambient Temp °F (°C)	°F (°C)	122 (50)
Max Operating Ambient Temperature (before derate)	see Bulletin No. 0199270SSD	
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

Standby	
Flow at Rated Power cfm (m ³ /min)	1,483 (42)

ENGINE

Standby		
Rated Engine Speed	rpm	1,800
Horsepower at Rated kW**	hp	762
Piston Speed	ft/min	2,020
BMEP	psi	366

EXHAUST

Standby		
Exhaust Flow (Rated Output)	cfm (m ³ /min)	3,401 (96.3)
Max. Total Allowable Backpressure (Post Turbo)	in Hg	40 (2.94)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1,047 (564)
Exhaust Outlet Size (Open Set)	mm (in)	152.4 (6)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

Standby - See Bulletin 0187500SSB

Prime - See Bulletin 0187510SSB

MB500 | 15.2L | 500 kW

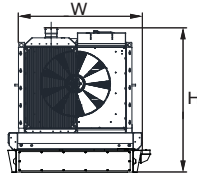
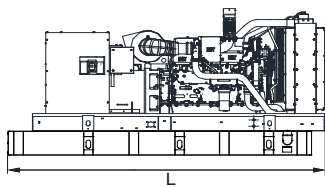
INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

ATTACHMENT N

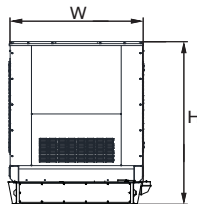
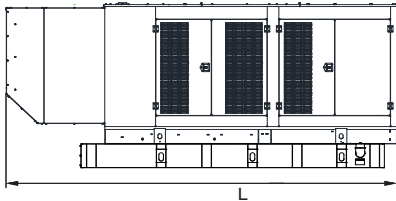
GENERAC INDUSTRIAL
POWER

DIMENSIONS AND WEIGHTS*



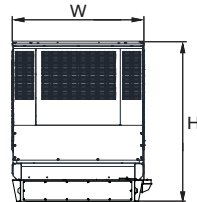
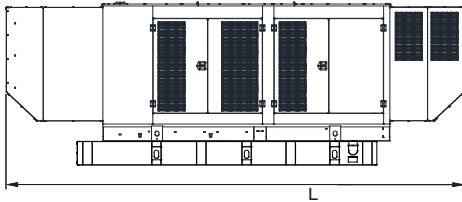
OPEN SET (Includes Exhaust Flex)

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm))	Weight lbs (kg)	
No Tank	-	154.4 (3,923) x 71 (1,803) x 67 (1,702)	10,580 (4,799)	
10	334	158.5 (4,026) x 71 (1,803) x 81 (2,057)	12,255 (5,559)	
32	1,001	158.5 (4,026) x 71 (1,803) x 103 (2,616)	13,180 (5,978)	
32	1,001	228 (5,791) x 71 (1,803) x 103 (2,616)	13,730 (6,228)	
64	2,002	290 (7,366) x 71 (1,803) x 103 (2,616)	15,430 (6,999)	



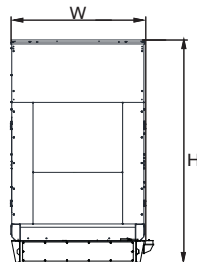
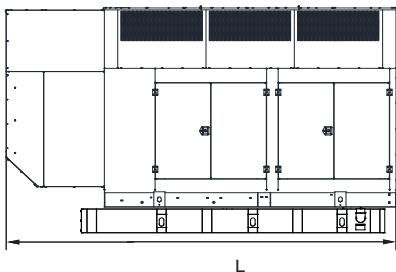
STANDARD ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm))	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	207.4 (5,268) x 71 (1,803) x 80 (2,032)	1,999 (907)	869 (394)
10	334	207.4 (5,268) x 71 (1,803) x 94 (2,388)		
32	1,001	207.4 (5,268) x 71 (1,803) x 116 (2,946)		
32	1,001	228 (5,791) x 71 (1,803) x 105 (2,667)		
64	2,002	290 (7,366) x 71 (1,803) x 116 (2,946)		



LEVEL 1 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm))	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	247.5 (6,285) x 71 (1,803) x 80 (2,032)	2,782 (1,262)	1,291 (586)
10	334	247.5 (6,285) x 71 (1,803) x 94 (2,388)		
32	1,001	247.5 (6,285) x 71 (1,803) x 116 (2,946)		
32	1,001	247.5 (6,285) x 71 (1,803) x 105 (2,667)		
64	2,002	290 (7,366) x 71 (1,803) x 116 (2,946)		



LEVEL 2 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm))	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	207.4 (5,268) x 71 (1,803) x 114 (2,899)	3,330 (1,510)	1,522 (692)
10	334	207.4 (5,268) x 71 (1,803) x 128 (3,251)		
32	1,001	207.4 (5,268) x 71 (1,803) x 150 (3,810)		
32	1,001	228 (5,791) x 71 (1,803) x 139 (3,531)		
64	2,002	290 (7,366) x 71 (1,803) x 150 (3,810)		

* Not for construction. All measurements are approximate and for estimation purposes only. Contact factory for details.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

**Service Entrance Rated
Power Frame Type
Open and Delayed Transitions**

Power Series Transfer Switch

1200-5000 Amps



Automatic Transfer Switch, 100% Service Entrance Rated
1200 – 5000A, up to 600VAC, 50/60 Hz
3 or 4 poles
NEMA 1 or 3R
Open Transition with Inphase or Delayed Transition
UL1008 Listed
CSA C22.2 No. 178 Certified

CODES AND STANDARDS:



UL1008 Listed



NFPA 70, 99, 110, 37



NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



Seismic: IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10, ICC-ES AC-156
(2012)



IEC 61000 EMC Testing & Measuring



CSA C22.2 No. 178 Certified

DESCRIPTION:

Generac's Service Entrance Power Series Transfer Switch integrates automatic power switching with required disconnecting, grounding, and bonding for use as service entrance equipment. The integrated service entrance power switch meets all National Electrical Code requirements for service entrance use in a compact package. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems. Designed with integral over current protection and a 100% rated disconnect breaker for unmatched safety, performance, and reliability. The full assembly is listed to UL 1008 with exceptional 3 cycle withstand and close on ratings.

Generac's Power Frame Type Transfer Switch has short time ratings for selective coordination and a high speed switching time of < 3 cycles to minimize the effect of power disturbances. Solid-state trip units can be integrated into the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space. Available with various combinations of long, short time, instantaneous, ground fault protection and communications. The mechanism has a fully rated 4th pole operating on a common crossbar. A fully rated 4th pole eliminates the typical problems with a 3 pole overlapping neutral designs.

With an integral contact wear indication, preventative maintenance can be scheduled when convenient for the user. The control's color display and mimic bus diagrams simplifies programming, routine operation, data presentation, and setting adjustments. The intuitive, grouped data screens along with the supervisory and highly customizable data acquisition allow the user to customize to their needs. Standard features include Modbus® RTU, extensive user customizable input/outputs, 450 event log with event capture for the most recent 12, with 3 phase sensing on both sources, plus load for voltage, frequency, sequencing, loss, and unbalance.

Service Entrance Rated Power Frame Type, Open and Delayed Transitions

STANDARD FEATURES:

- High Withstand and Close on Ratings
- Safe manual transfer under load
- Front Access
- Cable or bus entry is Top, Bottom or Both
- Isolated Compartments for improved safety
- 4.3 inch Color Display
- Mimic diagram with Source Available and Connected LED indication
- Event logging and recording 450 time-stamped events
- System TEST pushbutton
- Programmable plant exerciser
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Modbus® RTU

VOLTAGE AND FREQUENCY SENSING:

- 3-Phase under and over voltage sensing on normal and emergency sources, plus load
- Under and over frequency sensing on normal, emergency, and load
- 3-Phase sequence sensing for phase sensitive loads
- 3-Phase voltage unbalance and loss sensing

CONTACTS:

- Source available:
 - Source-1 Present, 2-N.O. & 2 N.C.
 - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
 - Source-1 Position, 1-N.O. & 1-N.C.
 - Source-2 Position, 1-N.O. & 1 N.C.
- Pre Transfer Contacts: 1-N.O. & 1 N.C.

Standard Control Parameters Available

CONTROL INPUTS (4 STANDARD):

- Monitor Mode
- Bypass Timers
- Lockout
- Manual Retransfer On/Off
- Manual Retransfer
- Slave In
- Remote Engine Test
- Preferred Source Selection
- Go to Emergency
- Emergency Inhibit
- ATS on Bypass
- Go to Neutral

CONTROL OUTPUTS (4 STANDARD):

- Load sequence
- Selective Load shed
- Load bank control
- Pre/post-transfer
- Pre-transfer
- User remote control
- Source 1 available (standard)
- Source 2 available (standard)
- Source 1 connected
- Source 2 connected
- ATS not in automatic
- General alarm
- ATS in test
- Engine test aborted
- Cooldown in process
- Engine start contact status
- Generator 1 start status
- Generator 2 start status
- Emergency inhibit on
- ATS on bypass

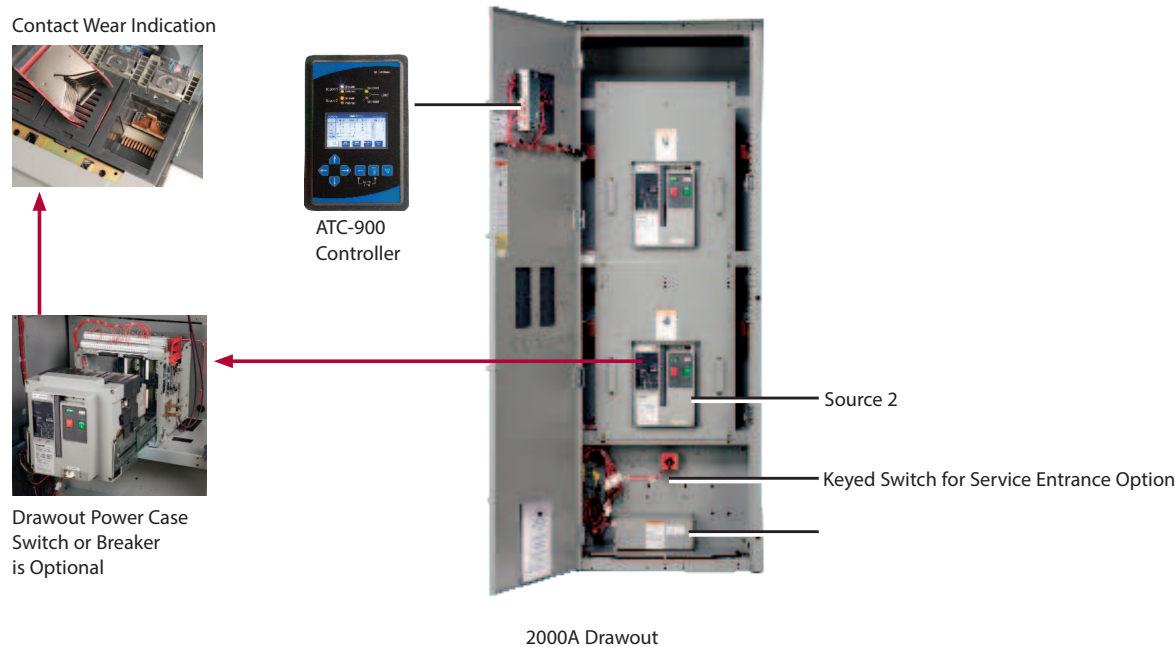
Up to 20 available with Expandable Input/Output Modules

OPTIONAL FEATURES:

- Dual Draw Out
- Digital Multi-function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with control
- Remote Multi Switch Annunciator Panel with control
- 2 or 4 position selector switch
- TVSS
- Stainless steel cover for controller
- Selectable Retransfer
- Manual Generator Retransfer

SERVICE ENTRANCE RATED:

For service entrance and other applications, Digitrip solid-state trip units can be integrated into the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space. Available with various combinations of long, short time, instantaneous, ground fault protection and communications. Contact factory for optional trip units.



TRANSFER SWITCH WITHSTAND RATINGS:

Systems Coordination Information—Withstand, Closing and Interrupting Ratings

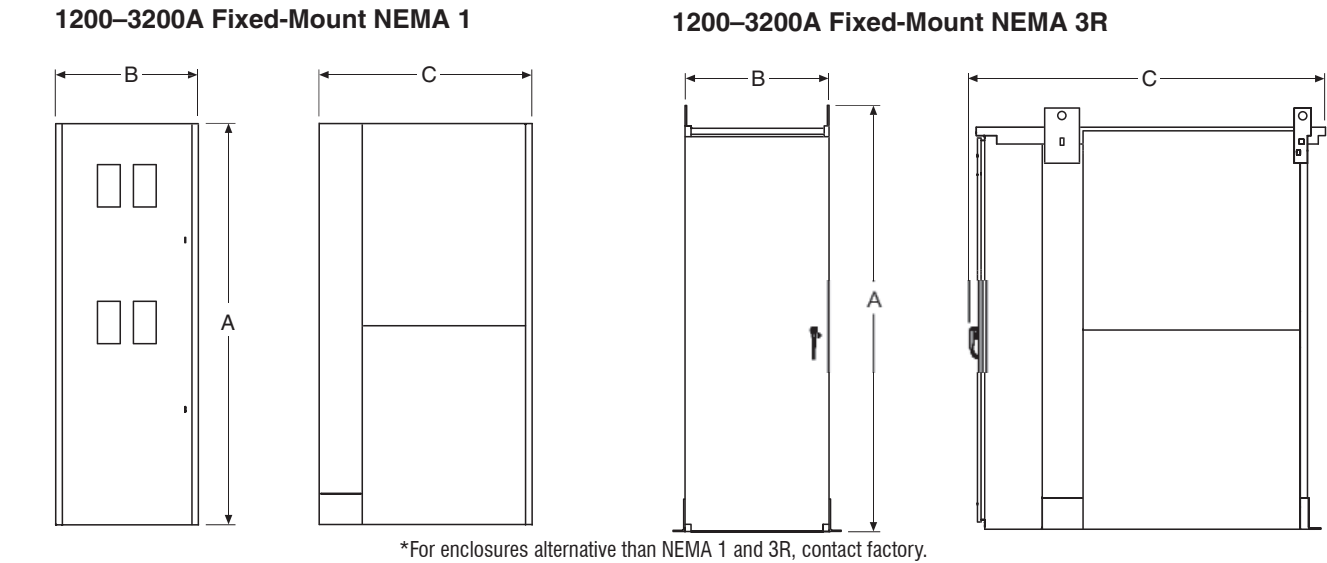
Rating When Used with Upstream Circuit Breaker

Transfer Switch Ampere Rating	3 Cycle 600V (kA)	30 Cycle ² 600V (kA)
1200	100	85
1600	100	85
2000	100	85
2500	100	85
3000	100	85
3200	100	85
4000	100	85 ¹
5000	—	85 ¹

1. UL 1066 short-time rating
2. Ratings used for coordination with upstream breakers with short-time ratings

Service Entrance Rated Power Frame Type, Open and Delayed Transitions

UNIT DIMENSIONS:



Power Frame Fixed-Mount Transfer Switches

Approximate Dimensions in Inches (mm)

NEMA 1 Enclosed Fixed-Mount Transfer Switch						NEMA 3R Enclosed Fixed-Mount Transfer Switch					
Ampere Rating	Number of Poles	Height A	Width B	Depth C	Shipping Weight Lbs (kg)	Ampere Rating	Number of Poles	Height A	Width B	Depth C	Shipping Weight Lbs (kg)
1200-2000	3	90.00 (2286.0)	32.00 (812.8)	48.00 (1219.2)	1050 (477)	1200-2000	3	90.00 (2286.0)	32.00 (812.8)	63.00 (1600.2)	1600 (726)
1200-2000	4	90.00 (2286.0)	32.00 (812.8)	48.00 (1219.2)	1250 (568)	1200-2000	4	90.00 (2286.0)	32.00 (812.8)	63.00 (1600.2)	1800 (817)
2500-3200	3	90.00 (2286.0)	44.00 (1117.6)	48.00 (1219.2)	1900 (863)	2500-3200	3	90.00 (2286.0)	44.00 (1117.6)	63.00 (1600.2)	2400 (1090)
2500-3200	4	90.00 (2286.0)	44.00 (1117.6)	48.00 (1219.2)	2000 (910)	2500-3200	4	90.00 (2286.0)	44.00 (1117.6)	63.00 (1600.2)	2500 (1135)

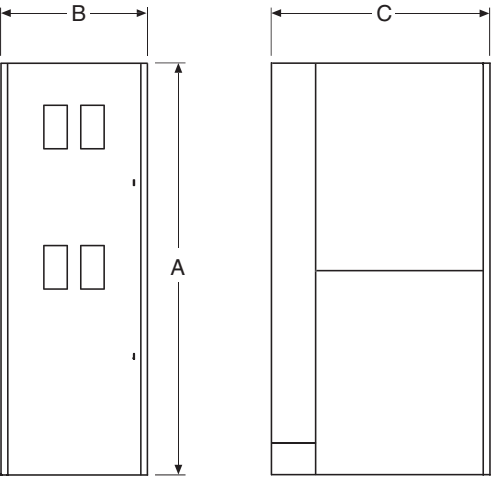
Note
* At 4000 and 5000A, the standard design is drawout. See drawout dimensions.

Standard Terminals

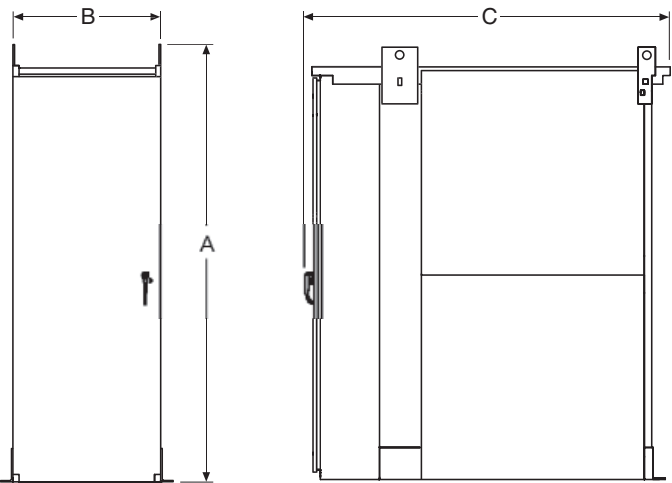
Ampere Rating	Normal, Emergency, and Load	Neutral
1200-2000	(6) 3/0-750 MCM	(24) 4/0-500 MCM
2500-3200	(9) 3/0-750 MCM	(36) 4/0-500 MCM

UNIT DIMENSIONS:

1200–3200A Drawout NEMA 1



1200–3200A Drawout NEMA 3R



*Seismic mounting brace adds an additional 3 inches to each side - front left and front right side and 3 inches additional to rear side.

Power Frame Drawout Transfer Switches
Approximate Dimensions in Inches (mm)

NEMA 1 Enclosed Drawout Transfer Switch					
Ampere Rating	Number of Poles	Height A	Width B	Depth C	Shipping Weight Lbs (kg)
1200-2000	3	90.00 (2286.0)	32.00 (812.8)	60.00 (1524.0)	1600 (727)
1200-2000	4	90.00 (2286.0)	32.00 (812.8)	60.00 (1524.0)	1900 (864)
2500-3200	3	90.00 (2286.0)	44.00 (1117.6)	60.00 (1524.0)	2500 (1136)
2500-3200	4	90.00 (2286.0)	44.00 (1117.6)	60.00 (1524.0)	2800 (1273)

NEMA 3R Enclosed Drawout Transfer Switch					
Ampere Rating	Number of Poles	Height A	Width B	Depth C	Shipping Weight Lbs (kg)
1200-2000	3	90.00 (2286.0)	32.00 (812.8)	75.00 (1905.0)	2100 (953)
1200-2000	4	90.00 (2286.0)	32.00 (812.8)	75.00 (1905.0)	2400 (1090)
2500-3200	3	90.00 (2286.0)	44.00 (1117.6)	75.00 (1905.0)	3000 (1362)
2500-3200	4	90.00 (2286.0)	44.00 (1117.6)	75.00 (1905.0)	3300 (1499)

Standard Terminals

Ampere Rating	Normal, Emergency, and Load	Neutral
1200-2000	(6) 3/0-750 MCM	(24) 4/0-500 MCM
2500-3200	(9) 3/0-750 MCM	(36) 4/0-500 MCM

*For 4000 and 5000A dimensions, please contact factory.

**CERTIFICATION REGARDING LOBBYING;
DEBARMENT, SUSPENSION AND OTHER
RESPONSIBILITY MATTERS
FOR EXPENDITURE OF FEDERAL FUNDS**

LOBBYING

As required by 7 CFR Part 3018, for persons entering into a contract, grant or cooperative agreement over **\$100,000** involving the expenditure of Federal funds, the undersigned certifies for itself and its principals that:

- (a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the making of any Federal grant, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal grant or cooperative agreement;
- (b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress, in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit **Standard Form - LLL, "Disclosure Form to Report Lobbying,"** in accordance with its instructions; and
- (c) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subgrants, contracts under grants and cooperative agreements, and subcontracts) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

PRINTED NAME/TITLE OF REPRESENTATIVE

CONTRACT / PURCHASE ORDER NUMBER

SIGNATURE OF REPRESENTATIVE / DATE

DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

As required by 7 CFR Part 3017, for persons entering into a contract, grant or cooperative agreement over **\$25,000** involving the expenditure of Federal funds, the undersigned certifies for itself and its principals that:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a Government entity (Federal, State, or local) with commission of any offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three-year period preceding this application had one or more public transaction (Federal, State, or local) terminated for cause or default; and

Where the applicant is unable to certify to any of the statements in this certification, he or she shall attach an explanation to this application.

PRINTED NAME/TITLE OF REPRESENTATIVE

CONTRACT / PURCHASE ORDER NUMBER

SIGNATURE OF REPRESENTATIVE / DATE



U.S. Department of Homeland Security's E-Verify System Affirmation Statement

PSPW-19-08 "Emergency Backup Power for City Hall"

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

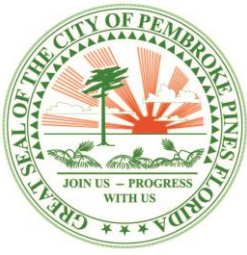
Contractor/Proposer/Bidder Company Name: _____

Authorized Company Person's Signature: _____

Authorized Company Person's Title: _____

Date: _____

October 9, 2019



PEMBROKE PINES
CITY COMMISSION

Frank C. Ortis
MAYOR
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
isiple@ppines.com

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 # PSPW-19-08
EMERGENCY BACKUP POWER FOR CITY HALL

1. New Documents

The following new documents have been uploaded:

- Attachment R: FEMA Debarment Form – **VENDORS MUST INCLUDE THIS COMPLETED FORM IN THEIR BID TO BE CONSIDERED RESPONSIVE.**

Certification Regarding Debarment, Suspension, Ineligibility And Voluntary Exclusion

Contractor Covered Transactions

- (1) The prospective subcontractor of the Sub-recipient, _____, certifies, by submission of this document, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the Sub-recipient's subcontractor is unable to certify to the above statement, the prospective contract shall attach an explanation to this form.

CONTRACTOR

By: _____
Signature

Sub-Recipient's Name

Name and Title

DEM Contract Number

Street Address

FEMA Project Number

City, State, Zip

Date

EXHIBIT A

ELECTRONIC CODE OF FEDERAL REGULATIONS e-CFR data is current as of October 14, 2016

[Title 2](#) → [Subtitle A](#) → [Chapter II](#) → Part

200 Title 2: Grants and Agreements

PART 200—UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS

Procurement Standards

§200.317 Procurements by states.

When procuring property and services under a Federal award, a state must follow the same policies and procedures it uses for procurements from its non-Federal funds. The state will comply with §200.322 Procurement of recovered materials and ensure that every purchase order or other contract includes any clauses required by section §200.326 Contract provisions. All other non-Federal entities, including subrecipients of a state, will follow §§200.318 General procurement standards through 200.326 Contract provisions.

§200.318 General procurement standards.

(a) The non-Federal entity must use its own documented procurement procedures which reflect applicable State, local, and tribal laws and regulations, provided that the procurements conform to applicable Federal law and the standards identified in this part.

(b) Non-Federal entities must maintain oversight to ensure that contractors perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders.

(c)(1) The non-Federal entity must maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officers, employees, and agents of the non-Federal entity may neither solicit nor accept gratuities, favors, or anything of monetary value from contractors or parties to subcontracts. However, non-Federal entities may set standards for situations in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. The standards of conduct must provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents of the non-Federal entity.

(2) If the non-Federal entity has a parent, affiliate, or subsidiary organization that is not a state, local

government, or Indian tribe, the non-Federal entity must also maintain written standards of conduct covering organizational conflicts of interest. Organizational conflicts of interest means that because of relationships with a parent company, affiliate, or subsidiary organization, the non-Federal entity is unable or appears to be unable to be impartial in conducting a procurement action involving a related organization.

(d) The non-Federal entity's procedures must avoid acquisition of unnecessary or duplicative items. Consideration should be given to consolidating or breaking out procurements to obtain a more economical purchase. Where appropriate, an analysis will be made of lease versus purchase alternatives, and any other appropriate analysis to determine the most economical approach.

(e) To foster greater economy and efficiency, and in accordance with efforts to promote cost-effective use of shared services across the Federal Government, the non-Federal entity is encouraged to enter into state and local intergovernmental agreements or inter-entity agreements where appropriate for procurement or use of common or shared goods and services.

(f) The non-Federal entity is encouraged to use Federal excess and surplus property in lieu of purchasing new equipment and property whenever such use is feasible and reduces project costs.

(g) The non-Federal entity is encouraged to use value engineering clauses in contracts for construction projects of sufficient size to offer reasonable opportunities for cost reductions. Value engineering is a systematic and creative analysis of each contract item or task to ensure that its essential function is provided at the overall lower cost.

(h) The non-Federal entity must award contracts only to responsible contractors possessing the ability to perform successfully under the terms and conditions of a proposed procurement. Consideration will be given to such matters as contractor integrity, compliance with public policy, record of past performance, and financial and technical resources. See also §200.213 Suspension and debarment.

(i) The non-Federal entity must maintain records sufficient to detail the history of procurement. These records will include, but are not necessarily limited to the following: rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for the contract price.

(j)(1) The non-Federal entity may use a time and materials type contract only after a determination that no other contract is suitable and if the contract includes a ceiling price that the contractor exceeds at its own risk. Time and materials type contract means a contract whose cost to a non-Federal entity is the sum of:

(i) The actual cost of materials; and

(ii) Direct labor hours charged at fixed hourly rates that reflect wages, general and administrative expenses, and profit.

(2) Since this formula generates an open-ended contract price, a time-and-materials contract provides no positive profit incentive to the contractor for cost control or labor efficiency. Therefore, each contract must set a ceiling price that the contractor exceeds at its own risk. Further, the non-Federal entity awarding such a contract must assert a high degree of oversight in order to obtain reasonable assurance that the contractor is using efficient methods and effective cost controls.

(k) The non-Federal entity alone must be responsible, in accordance with good administrative practice and sound business judgment, for the settlement of all contractual and administrative issues arising out of procurements. These issues include, but are not limited to, source evaluation, protests, disputes, and claims. These standards do not relieve the non-Federal entity of any contractual responsibilities under its contracts. The Federal awarding agency will not substitute its judgment for that of the non-Federal entity unless the matter is primarily a Federal concern. Violations of law will be referred to the local, state, or Federal authority having proper jurisdiction.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014; 80 FR 43309, July 22, 2015]

§200.319 Competition.

(a) All procurement transactions must be conducted in a manner providing full and open competition consistent with the standards of this section. In order to ensure objective contractor performance and eliminate unfair competitive advantage, contractors that develop or draft specifications, requirements, statements of work, or invitations for bids or requests for proposals must be excluded from competing for such procurements. Some of the situations considered to be restrictive of competition include but are not limited to:

- (1) Placing unreasonable requirements on firms in order for them to qualify to do business;
- (2) Requiring unnecessary experience and excessive bonding;
- (3) Noncompetitive pricing practices between firms or between affiliated companies;
- (4) Noncompetitive contracts to consultants that are on retainer contracts;
- (5) Organizational conflicts of interest;
- (6) Specifying only a “brand name” product instead of allowing “an equal” product to be offered and describing the performance or other relevant requirements of the procurement; and
- (7) Any arbitrary action in the procurement process.

(b) The non-Federal entity must conduct procurements in a manner that prohibits the use of statutorily or administratively imposed state, local, or tribal geographical preferences in the evaluation of bids or proposals, except in those cases where applicable Federal statutes expressly mandate or encourage geographic preference. Nothing in this section preempts state licensing laws. When contracting for architectural and engineering (A/E) services, geographic location may be a selection criterion provided its application leaves an appropriate number of qualified firms, given the nature and size of the project, to compete for the contract.

(c) The non-Federal entity must have written procedures for procurement transactions. These procedures must ensure that all solicitations:

- (1) Incorporate a clear and accurate description of the technical requirements for the material, product, or service to be procured. Such description must not, in competitive procurements, contain features which unduly restrict competition. The description may include a statement of the qualitative nature of the material, product or service to be procured and, when necessary, must set forth those minimum essential characteristics and standards to which it must conform if it is to satisfy its intended use.

Detailed product specifications should be avoided if at all possible. When it is impractical or uneconomical to make a clear and accurate description of the technical requirements, a “brand name or equivalent” description may be used as a means to define the performance or other salient requirements of procurement. The specific features of the named brand which must be met by offers must be clearly stated; and

(2) Identify all requirements which the offerors must fulfill and all other factors to be used in evaluating bids or proposals.

(d) The non-Federal entity must ensure that all prequalified lists of persons, firms, or products which are used in acquiring goods and services are current and include enough qualified sources to ensure maximum open and free competition. Also, the non-Federal entity must not preclude potential bidders from qualifying during the solicitation period.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014]

§200.320 Methods of procurement to be followed.

The non-Federal entity must use one of the following methods of procurement.

(a) Procurement by micro-purchases. Procurement by micro-purchase is the acquisition of supplies or services, the aggregate dollar amount of which does not exceed the micro-purchase threshold (§200.67 Micro-purchase). To the extent practicable, the non-Federal entity must distribute micro-purchases equitably among qualified suppliers. Micro-purchases may be awarded without soliciting competitive quotations if the non-Federal entity considers the price to be reasonable.

(b) Procurement by small purchase procedures. Small purchase procedures are those relatively simple and informal procurement methods for securing services, supplies, or other property that do not cost more than the Simplified Acquisition Threshold. If small purchase procedures are used, price or rate quotations must be obtained from an adequate number of qualified sources.

(c) Procurement by sealed bids (formal advertising). Bids are publicly solicited and a firm fixed price contract (lump sum or unit price) is awarded to the responsible bidder whose bid, conforming with all the material terms and conditions of the invitation for bids, is the lowest in price. The sealed bid method is the preferred method for procuring construction, if the conditions in paragraph (c)(1) of this section apply.

(1) In order for sealed bidding to be feasible, the following conditions should be present:

(i) A complete, adequate, and realistic specification or purchase description is available;

(ii) Two or more responsible bidders are willing and able to compete effectively for the business; and

(iii) The procurement lends itself to a firm fixed price contract and the selection of the successful bidder can be made principally on the basis of price.

(2) If sealed bids are used, the following requirements apply:

(i) Bids must be solicited from an adequate number of known suppliers, providing them sufficient response time prior to the date set for opening the bids, for local, and tribal governments, the invitation for bids must be publicly advertised;

(ii) The invitation for bids, which will include any specifications and pertinent attachments, must define the items or services in order for the bidder to properly respond;

(iii) All bids will be opened at the time and place prescribed in the invitation for bids, and for local and tribal governments, the bids must be opened publicly;

(iv) A firm fixed price contract award will be made in writing to the lowest responsive and responsible bidder. Where specified in bidding documents, factors such as discounts, transportation cost, and life cycle costs must be considered in determining which bid is lowest. Payment discounts will only be used to determine the low bid when prior experience indicates that such discounts are usually taken advantage of; and

(v) Any or all bids may be rejected if there is a sound documented reason.

(d) Procurement by competitive proposals. The technique of competitive proposals is normally conducted with more than one source submitting an offer, and either a fixed price or cost-reimbursement type contract is awarded. It is generally used when conditions are not appropriate for the use of sealed bids. If this method is used, the following requirements apply:

(1) Requests for proposals must be publicized and identify all evaluation factors and their relative importance. Any response to publicized requests for proposals must be considered to the maximum extent practical;

(2) Proposals must be solicited from an adequate number of qualified sources;

(3) The non-Federal entity must have a written method for conducting technical evaluations of the proposals received and for selecting recipients;

(4) Contracts must be awarded to the responsible firm whose proposal is most advantageous to the program, with price and other factors considered; and

(5) The non-Federal entity may use competitive proposal procedures for qualifications-based procurement of architectural/engineering (A/E) professional services whereby competitors' qualifications are evaluated and the most qualified competitor is selected, subject to negotiation of fair and reasonable compensation. The method, where price is not used as a selection factor, can only be used in procurement of A/E professional services. It cannot be used to purchase other types of services though A/E firms are a potential source to perform the proposed effort.

(e) [Reserved]

(f) Procurement by noncompetitive proposals. Procurement by noncompetitive proposals is procurement through solicitation of a proposal from only one source and may be used only when one or more of the following circumstances apply:

(1) The item is available only from a single source;

(2) The public exigency or emergency for the requirement will not permit a delay resulting

from competitive solicitation;

(3) The Federal awarding agency or pass-through entity expressly authorizes noncompetitive proposals in response to a written request from the non-Federal entity; or

(4) After solicitation of a number of sources, competition is determined inadequate.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014; 80 FR 54409, Sept. 10, 2015]

§200.321 Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.

(a) The non-Federal entity must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and

(6) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (1) through (5) of this section.

§200.322 Procurement of recovered materials.

A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75885, Dec. 19, 2014]

§200.323 Contract cost and price.

(a) The non-Federal entity must perform a cost or price analysis in connection with every procurement action in excess of the Simplified Acquisition Threshold including contract modifications. The method and degree of analysis is dependent on the facts surrounding the particular procurement situation, but as a starting point, the non-Federal entity must make independent estimates before receiving bids or proposals.

(b) The non-Federal entity must negotiate profit as a separate element of the price for each contract in which there is no price competition and in all cases where cost analysis is performed. To establish a fair and reasonable profit, consideration must be given to the complexity of the work to be performed, the risk borne by the contractor, the contractor's investment, the amount of subcontracting, the quality of its record of past performance, and industry profit rates in the surrounding geographical area for similar work.

(c) Costs or prices based on estimated costs for contracts under the Federal award are allowable only to the extent that costs incurred or cost estimates included in negotiated prices would be allowable for the non-Federal entity under Subpart E—Cost Principles of this part. The non-Federal entity may reference its own cost principles that comply with the Federal cost principles.

(d) The cost plus a percentage of cost and percentage of construction cost methods of contracting must not be used.

§200.324 Federal awarding agency or pass-through entity review.

(a) The non-Federal entity must make available, upon request of the Federal awarding agency or pass-through entity, technical specifications on proposed procurements where the Federal awarding agency or pass-through entity believes such review is needed to ensure that the item or service specified is the one being proposed for acquisition. This review generally will take place prior to the time the specification is incorporated into a solicitation document. However, if the non-Federal entity desires to have the review accomplished after a solicitation has been developed, the Federal awarding agency or pass-through entity may still review the specifications, with such review usually limited to the technical aspects of the proposed purchase.

(b) The non-Federal entity must make available upon request, for the Federal awarding agency or pass-through entity pre-procurement review, procurement documents, such as requests for proposals or invitations for bids, or independent cost estimates, when:

(1) The non-Federal entity's procurement procedures or operation fails to comply with the procurement standards in this part;

(2) The procurement is expected to exceed the Simplified Acquisition Threshold and is to be awarded without competition or only one bid or offer is received in response to a solicitation;

(3) The procurement, which is expected to exceed the Simplified Acquisition Threshold, specifies a "brand name" product;

(4) The proposed contract is more than the Simplified Acquisition Threshold and is to be awarded to other than the apparent low bidder under a sealed bid procurement; or

(5) A proposed contract modification changes the scope of a contract or increases the contract amount by more than the Simplified Acquisition Threshold.

(c) The non-Federal entity is exempt from the pre-procurement review in paragraph (b) of this section if the Federal awarding agency or pass-through entity determines that its procurement systems comply with the standards of this part.

(1) The non-Federal entity may request that its procurement system be reviewed by the Federal awarding agency or pass-through entity to determine whether its system meets these standards in order for its system to be certified. Generally, these reviews must occur where there is continuous high-dollar funding, and third party contracts are awarded on a regular basis;

(2) The non-Federal entity may self-certify its procurement system. Such self-certification must not limit the Federal awarding agency's right to survey the system. Under a self-certification procedure, the Federal awarding agency may rely on written assurances from the non-Federal entity that it is complying with these standards. The non-Federal entity must cite specific policies, procedures, regulations, or standards as being in compliance with these requirements and have its system available for review.

§200.325 Bonding requirements.

For construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold, the Federal awarding agency or pass-through entity may accept the bonding policy and requirements of the non-Federal entity provided that the Federal awarding agency or pass-through entity has made a determination that the Federal interest is adequately protected. If such a determination has not been made, the minimum requirements must be as follows:

(a) A bid guarantee from each bidder equivalent to five percent of the bid price. The “bid guarantee” must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

(b) A performance bond on the part of the contractor for 100 percent of the contract price. A “performance bond” is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.

(c) A payment bond on the part of the contractor for 100 percent of the contract price. A “payment bond” is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

§200.326 Contract provisions.

The non-Federal entity's contracts must contain the applicable provisions described in Appendix II to Part 200—Contract Provisions for non-Federal Entity Contracts Under Federal Awards. When

procuring property and services under a Federal award, a state must follow the same policies and procedures it uses for procurements from its non-Federal funds. The state will comply with §200.322 Procurement of recovered materials and ensure that every purchase order or other contract includes any clauses required by section §200.326 Contract provisions. All other non-Federal entities, including sub recipients of a state, will follow §§200.318 General procurement standards through 200.326 Contract provisions.

EXHIBIT B

FHWA 1273 - REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

FHWA-1273 -- Revised May
1, 2012

REQUIRED CONTRACT PROVISIONS

FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Government wide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for

Lobbying ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contract or shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design- build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.
4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60- 1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

- a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.
- b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are

treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

1. **EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.
2. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:
 - a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
 - b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
 - c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.
 - d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
 - e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
3. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.
 - a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.
 - b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

4. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

5. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

6. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

7. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

9. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

10. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

- (1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;
- (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and
- (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5

“Contract provisions and related matters” with minor revisions to conform to the FHWA- 1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The

Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

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

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

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

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

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of

the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at

<http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

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

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

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

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

(3) The weekly submission of a properly executed certification set forth on the reverse side of optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

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

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

4. Apprentices and trainees

Apprentices (programs of the USDOL)

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

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

determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

Equal employment opportunity

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

Apprentices and Trainees (programs of the U.S. DOT)

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

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

Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

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

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

Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and

7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

Certification of eligibility

- By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

- 1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- 2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the

United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. **Withholding for unpaid wages and liquidated damages.** The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.
4. **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).
 - a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:
 - (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
 - (2) the prime contractor remains responsible for the quality of the work of the leased employees;
 - (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
 - (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.
2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).
3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal- aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or

any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
- g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion- Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.
- h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to

participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department of agency with which this transaction originated may pursue available remedied, including suspension and/or debarment.

Certifications regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion- Lower

Tier Participants:

1. The prospective lower tier participant certifies by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any federal department or agency.
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XL. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49.CFR.20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid, or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated Funds have been paid or will be paid to any person for influencing, or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress or any employee of a member of Congress in connection with this Federal contract, grant loan or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

c. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

d. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

- a. To the extent that qualified persons regularly residing in the area are not available.
- b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.
- c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure)

1. Type of Federal Action: _____ a. contract _____ b. grant _____ c. cooperative agreement _____ d. loan _____ e. loan guarantee _____ f. loan insurance	2. Status of Federal Action: _____ a. bid/offer/application _____ b. initial award _____ c. post-award	3. Report Type: _____ a. initial filing _____ b. material change For material change only: Year _____ quarter _____ Date of last report _____
4. Name and Address of Reporting Entity: _____ Prime _____ Subawardee _____ Tier _____, if Known: Congressional District, if known:	5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime: Congressional District, if known:	
6. Federal Department/Agency:	7. Federal Program Name/Description: CFDA Number, <i>if applicable</i> : _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$	
10. a. Name and Address of Lobbying Registrant <i>(if individual, last name, first name, MI):</i>	b. Individuals Performing Services <i>(including address if different from No. 10a)</i> <i>(last name, first name, MI):</i>	
11. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____	

[Home](#)[Search](#)[Source](#)[Contracts](#)[Tools](#)
 [Schedule](#)
 [Task](#)
 [Note](#)
[Vendor view of bid](#)
[Chat](#) | [Bid Comments](#) | [Documents](#) | [Attachments](#) | [Items](#)

Bid #PSPW-19-08 - Emergency Backup Power For City Hall

**Time Left** Bid has ended.**Bid Started** Sep 10, 2019 5:07:33 PM EDT**Bid Ended** This bid closed on Oct 15, 2019 2:00:00 PM EDT**Agency Information** City of Pembroke Pines, FL ([view agency's bids](#))**Notifications**# of suppliers that viewed 104 [View](#)**Q & A**[Report](#) ([Bidder Activity](#))[Questions & Answers](#)

Questions: 6

Q&A Deadline: Sep 30, 2019 8:30:00 PM EDT

Bid Classifications [Classification Codes](#)**Required Vendor Qualifications** PP-SWORN, PP-DRUGFREE, PP-SCRUTINIZED, PP-W9, PP-VENDORINFO, PP-EQUAL, PP-LBTR**Bid Regions** [Regions](#)**Bid Contact** [see contact information](#)**Pre-Bid Conference(s)** Sep 23, 2019 10:00:00 AM EDT

Attendance is mandatory

Location: Pembroke Pines City Hall Building, South East Corner, located at 601 City Center Way, Pembroke Pines, FL 33025.

[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.**Bid Packet**  [Packet for Bid PSPW-19-08](#) ([download](#))**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 "BID SECURITY" (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 provide an emergency backup power system for the City Hall building.

This system will allow the city to expand EOC capabilities, power the kitchen to prepare meals, and serve as a shelter for first responders.

Added on Oct 9, 2019:

Please review the new uploaded documents. **NOTE: Bidders MUST complete Attachment R and include it in their bids to be considered responsive.**

Documents

[Select All](#) | [Select None](#) | [Download Selected](#)

<p><input type="checkbox"/> 1. PSPW-19-08 Emergency Backup Power for City Hall.pdf [download] </p> <p><input type="checkbox"/> 3. Attachment B - Non-Collusive Affidavit [download] </p> <p><input type="checkbox"/> 5. Attachment D - Sample Insurance Certificate.pdf [download] </p> <p><input type="checkbox"/> 7. Attachment F - References Form [download] </p> <p><input type="checkbox"/> 9. Attachment H - Standard Release of Lien.pdf [download] </p> <p><input type="checkbox"/> 11. Attachment J - Electrical Drawings Notes.pdf [download] </p> <p><input type="checkbox"/> 13. Attachment L - Generator Plan Section.pdf [download] </p> <p><input type="checkbox"/> 15. Attachment N - GENERAC-500KW MB500-BI-FUEL.pdf [download] </p> <p><input type="checkbox"/> 17. Attachment P - Certification Regarding Lobbying, Debarment, Suspension, Etc.pdf [download] </p> <p><input type="checkbox"/> 19. Standard Form LLL - Disclosure Form to Report Lobbying.pdf [download] </p> <p><input type="checkbox"/> 21. Exhibit B - FHWA 1273 - Required Contract Provisions Federal-Aid Construction Contracts.pdf [download] </p> <p><input type="checkbox"/> 23. PSPW-19-08 Addendum 1.pdf [download] </p>	<p><input type="checkbox"/> 2. Attachment A - Contact Information Form.docx [download] </p> <p><input type="checkbox"/> 4. Attachment C - Proposers Qualifications Statement [download] </p> <p><input type="checkbox"/> 6. Attachment E - Specimen Contract - Construction Agreement 2018-10-25.pdf [download] </p> <p><input type="checkbox"/> 8. Attachment G - Mandatory Pre-Bid Site Visit Confirmation.pdf [download] </p> <p><input type="checkbox"/> 10. Attachment I - Preliminary Drawings, 2250 Gallon Generator Fuel Tank.pdf [download] </p> <p><input type="checkbox"/> 12. Attachment K - PLUMBING DRAWINGS.pdf [download] </p> <p><input type="checkbox"/> 14. Attachment M - Calculation Package.pdf [download] </p> <p><input type="checkbox"/> 16. Attachment O - PSTS Transfer Switch Spec Sheet.pdf [download] </p> <p><input type="checkbox"/> 18. Attachment Q - Homeland Securitys E-Verify System Affirmation Statement.pdf [download] </p> <p><input type="checkbox"/> 20. Exhibit A - 2 CFR 200 - Uniform Administrative Requirements, Cost Principles, And Audit Requirements For Federal Awards.pdf [download] </p> <p><input type="checkbox"/> 22. Signed Mandatory Pre-Bid - Site Visit Confirmation Form.pdf [download] </p> <p><input type="checkbox"/> 24. Attachment R - FEMA Debarment Form.pdf [download] </p>
---	---

= Included in Bid Packet = Excluded from Bid Packet

Items			
Item	Title	Offers	
PSPW-19-08--01-01	Project Cost	Y	Info
PSPW-19-08--01-02	Additional Work - Running Conduit	Y	Info
PSPW-19-08--01-03	Cost to Provide Payment and Performance Bond	Y	Info

Change Made On Sep 24, 2019 12:02:40 PM EDT

New Documents Signed Mandatory Pre-Bid - Site Visit Confirmation Form.pdf

Change Made On Oct 9, 2019 2:27:04 PM EDT

Description/Bid Comments (Information was added)

New Documents PSPW-19-08 Addendum 1.pdf
Attachment R - FEMA Debarment Form.pdf

Added Items • [Additional Work - Running Conduit](#)

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

[Home](#) | [Bid Search](#) | [Bids](#) | [Orders](#) | [Tools](#) | [Support](#) | [Privacy](#) | [Logout](#)



Copyright © 1999-2018 - BidSync - All rights reserved.

[Home](#)[Search](#)[Source](#)[Contracts](#)[Tools](#)[Go to Bid Information](#)[View Printable](#)

Question and Answers for Bid #PSPW-19-08 - Emergency Backup Power for City Hall

[Create New Question](#)

Question Deadline: Sep 30, 2019 8:30:00 PM EDT

Overall Bid Questions

Question 1

1. Is this project classified as Davis Bacon or Prevailing Wage?
2. Bid documents don't state a dollar value for liquidated damages, what is the liquidated damages for the project. If any?
3. Bid document indicate the existing generator is to be disconnected. Who is responsible to handle (remove, transport and unload) the generator and associated equipment ?
4. Who is responsible to empty the sub base genset fuel tank (Owner or Contractor)? If contractor is responsible what is the intent of the fuel removed (disposed or stored for city use)?
5. Assessing the scope of work. It seems necessary to remove the existing generator first, prior to any electrical installation work commencing. Will a temporary (Mobile Backup) generator be required to provide support to the existing loads it serves until the new generators are online.
6. If temporary generator/s are required who is responsible for fuel.
7. Who is responsible to pay for Electrical Utility Charges needed to support the electrical installation (outages, etc..).
8. Please clarify on when the 90 days for completion will begin. (NTP, After receiving approved permit, after equipment onsite)? Also if delays are caused by (Owner, FPL, Teco, equipment lead times), how will the schedule be adjusted so contractor does not have to acquire additional expense to keep project on original schedule. **(Submitted: Sep 27, 2019 3:19:49 PM EDT)**

[edit](#) 

Answer

- 1. No, this project is not classified as Davis-Bacon or Prevailing Wage.
- 2. Liquidated Damages will total \$500 per day.
- 3. Contractor is responsible for disconnecting the existing generator and associated equipment not being used in new system installation and package/palletize it for the city to pick up and relocate accordingly.
- 4. The city will empty the fuel tank of the existing generator.
- 5. Yes. Temporary backup power will be required as specified by the drawings. The city will provide the temporary backup generator and contractor will be responsible for connections as needed.
- 6. The City will provide the temporary generator and fuel. (see question/answer #5)
- 7. The city will be responsible for those charges.
- 8. NTP will be issued upon permit approval. The city's project manager may warrant the contractor time extensions for unforeseen equipment manufacturers' delays, rain days or other delays not in the contractor's control, so long as proper backup documentation is provided. **(Answered: Oct 2, 2019 9:12:59 AM EDT)**

Add to Answer:

Question 2

1. is the contractor required to fill the sub-base generator tanks with diesel fuel?
2. who is responsible for start-up, load bank and commissioning fuel? **(Submitted: Sep 30, 2019 1:25:23 PM EDT)**

Answer

[edit](#) 

- 1. The City will provide fuel.
- 2. The City will provide fuel for the generator; contractor is responsible for startup and all other requirements for final inspection. **(Answered: Oct 2, 2019 9:12:59 AM EDT)**

Add to Answer:

Question 3

1. Will existing fire Pump emergency feeder conductors be allowed to be spliced or will new continuous conductors be required to be installed all the way to the Fire Pump Controller ATS. **(Submitted: Sep 30, 2019 3:55:45 PM EDT)**

[edit](#) 

Answer

- The wires from the existing fire pump emergency side controller to the new generator fire pump circuit breaker shall be new into the re-routed existing conduit from the actual emergency generator location to the new circuit breaker as shown on sheet ES-1 and electrical riser diagram on sheet ES-2. Splicing the existing wiring is not approved. A new underground conduit outside the building would be acceptable if no more than (4) 90 degree turns are used in the complete route. **(Answered: Oct 2, 2019 9:12:59 AM EDT)**

Add to Answer:

Question 4

1. Is the project duration 90 days? Can this be extended to accommodate lead times of equipment?
2. What is the wage determination for this project?
3. Are all of the applicable technical specifications included in the bid package?
4. Who is the local gas company used at the site? Do you have contact information?
5. Can a scale-able drawing of the first floor be provided for the purpose of take- off the conduit run to the annunciator? **(Submitted: Sep 30, 2019 5:33:25 PM EDT)**

Answer[edit](#)

- 1. Yes, extensions are available.
- 2. Refer to Q/A# 1. If not please clarify question further.
- 3. Specifications have been provided in bid package and supplementary drawings.
- 4. TECO Gas Co.
- 5. Contractor shall field verify all measurements as per bid package requirements. If possible, the contractor may use the existing conduit for the annunciator feed; regardless, price for a new conduit and feed line should be provided as a separate line item in your bid. If needed, contractor may schedule another site visit with Public Services. **(Answered: Oct 2, 2019 9:12:59 AM EDT)**

Add to Answer:

Question 5

On Page 19 of the Bid PSPW-19-08

Professional Liability, Eviron/Pollution Liability, Cyber Liability make the mention of "when applicable" - Please confirm what applicable means. If not applicable can this be removed from contract **(Submitted: Sep 30, 2019 6:41:19 PM EDT)**

[edit](#)**Answer**

- Professional Liability, Eviron/Pollution Liability, and Cyber Liability are not applicable from this project and will not be included in the awarded contract. **(Answered: Oct 3, 2019 3:32:36 PM EDT)**

Add to Answer:

Question 6Please clarify the "Additional Work - Running Conduit" line item. **(Submitted: Oct 14, 2019 5:43:09 PM EDT)****Answer**

- Contractor is to provide a separate price per linear foot to run the Annunciator Panel conduit and wires from the Electrical Room where the generator equipment is located to the Main Lobby area where the replacement Annunciator Panel will be located, if the existing conduit and wires cannot be used for the new installation.

[edit](#)

The information regarding the type of conduit and wiring necessary can be found in Attachment J, "Electrical Drawings & Notes". **(Answered: Oct 14, 2019 6:03:23 PM EDT)**

Add to Answer:

Submit

Questions? Contact a BidSync representative: 800-990-9339 or email: support@bidsync.com

[Home](#) | [Bid Search](#) | [Bids](#) | [Orders](#) | [Tools](#) | [Support](#) | [Privacy](#) | [Logout](#)



Copyright © 1999-2018 - BidSync - All rights reserved.