

CITY OF DELRAY BEACH 100 NW 1st AVENUE, DELRAY BEACH, FL 33444

Invitation to Bid Construction No. 2016-133
Replacement of Emergency Generator for Fire Rescue Station No. 5
Project No. 2014-011

MAYOR
VICE MAYOR
DEPUTY VICE MAYOR
COMMISSIONER

- AL JACQUET - JORDANA JARJURA

COMMISSIONER - S

- MITCH KATZ

- CARY D. GLICKSTEIN

- SHELLY PETROLIA

CITY MANAGER

- DONALD B. COOPER

Purchasing Department ♦(561) 243-7161 ♦ <u>purchasing@mydelraybeach.com</u>

CITY ITBC No. 2016-133

Title:	eplacement of Emergency Generator for Fire Rescue Station No. 5	
Bidder Name:	ZABATT POWER SYSTEMS	

Addenda Acknowledgement

Bidder hereby acknowledges the receipt of the following addenda, which were issued by the City and incorporated into and made part of this ITBC. It is the sole responsibility of Bidder to ensure that all addenda have been received and receipt of each has been acknowledged. Failure to submit acknowledgement of each addendum issued may result in Bidder being deemed non-responsive.

ADDENDA NUMBER	ADDENDA DATE
Addendum No. 1	August 17, 2016
Addendum No. 2	August 19, 2016
Addendum No. 3	August 24, 2016
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Submission Deadline: August 22, 2016, 2:00 P.M. ET

Submissions Accepted Via: BidSync, Delivery Service, or in Person

Submit to: City of Delray Beach

Purchasing Division 100 N.W. 1st Avenue Delray Beach, FL 33444

Comments: A facsimile copy will not be accepted as a sealed Bid.

City of Delray Beach
Confirmation of Receipt (Date/Time Stamp):

SECTION 4: FORMS FOR BID

Each Bidder must complete and submit the forms included in this Section 4.

- Form 1. Bidder's Submittal Signature Page
- Form 2. Public Entity Crimes
- Form 3. Drug-Free Workplace
- Form 4. Conflict of Interest
- Form 5. Schedule of Pricing
- Form 6 Genuine Bid
- Form 7 Bid Guaranty
- Form 8 Cone of Silence
- Form 9 Non-Collusion Affidavit
- Form 10 Other Required Information
- Form 11 Questionnaire
- Form 12 Acknowledgement of Addenda

Form 1 - Bid Submittal Signature Page

By signing this Form 1, Bid Submittal Signature Page, the Bidder certifies that it satisfies all legal requirements as an entity to do business with the City, including all Conflict of Interest and Code of Ethics provisions. By signing this Bid Bidder agrees to furnish and deliver all materials and to do and perform all work in accordance with the Contract Documents for the Project entitled:

ITBC No. 2016-133 Replacement of Emergency Generator for Fire Rescue Station No. 5

By signing this Form 1, Bidder acknowledges it has examined the site and locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as Bidder deems necessary. Bidder warrants and represents that there are no defects, errors or inconsistencies in the plans, specifications or any of the Contract Documents and that the actual site conditions comport to the conditions set forth therein.

Firm Name:	Zabatt Power Systems	
Street Address:	4612 Highway Ave, Jacksonville, FL 32254	
Mailing Address (if diff	fferent from Street Address): same as above	
Telephone Number(s)	786-390-7855	
Fax Number(s):	904-394-7446	
Email Address:	carlos.hernandez@zabatt.com	
Federal Identification N	Number: 59-1889271	
Signature	Date 19/14 Date SABATION PRESIDENT	
J. MICH	AREL SHEATICA PRESIDENT	

By signing this document, the Bidder has examined copies of all the Agreement documents and addenda and agrees to all terms and conditions of this ITBC and the resulting agreement. The Bidder agrees, if this Bid is accepted: (1) Bidder will enter into an Agreement with the City to complete all Work as specified or indicated in this ITBC; (2) for the Price Bidder submitted on Form 6-Bid Pricing; (3) within the specified time indicated in this ITBC; and (4) in accordance with the all the terms and conditions of this ITBC.

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF BIDDER TO BE BOUND BY THE TERMS OF ITS BID. FAILURE TO SUBMIT THIS FORM EXECUTED BY AN AUTHORIZED REPRESENTATIVE WHERE INDICATED SHALL RENDER THE BID NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY BID THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE BIDDER TO THE TERMS OF ITS BID.

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Printed Name and Title

Signature Authority

Indicate below Bidder's type of organization and provide the required documentation as applicable to demonstrate that the executor of Bidder's Bid is duly authorized to execute on behalf of, and as the official act of, Bidder.

Select	Type of Organization	Officer Who Signed Proposal Submittal Signature Page	Required Authorizing Documentation
	Corporation	President, Vice President, or Chief Executive Officer	None
	Corporation	Director, Manager, or other title	Corporate resolution
	Limited Liability Company (LLC) – Member-Managed	Member	Articles of Organization or Operating Agreement
	Limited Liability Company (LLC) – Manager-Managed	Manager	Articles of Organization or Operating Agreement
	Limited Partnership	General Partner	Document demonstrating the legal authority to bind the Limited Partnership
	Partnership	Partner	None
		CEO, Director, Manager or other title	Authorizing documentation
	Individual	Individual	None

	Documentation is not required.	
Г	The required authorizing documentation is included with	Bid

Form 2 - Public Entity Crimes

NOTIFICATION OF PUBLIC ENTITY CRIMES LAW

Pursuant to Section 287.133, *Florida Statutes*, you are hereby notified that a person or affiliate who has been placed on the convicted Bidders list following a conviction for a public entity crime may not submit a Bid on a Bidder to provide any goods or services to a public entity; may not submit a Bid on a Bidder with a public entity for the construction or repair of a public building or public work; may not submit Bids on leases or real property to a public entity; may not be awarded or perform work as a Bidder, supplier, sub-Bidder, or consultant under a Bidder with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 [F.S.] for Category Two [\$35,000.00] for a period of thirty-six (36) months from the date of being placed on the convicted Bidders list.

Acknowledged by:

Zabatt Power Systems

Firm Name (print)

Signature

J. MICHAEL SABATICA,

Date

PRESIDENT

Printed Name and Title

Form 3 - Drug-Free Workplace

If identical tie bids exist, preference will be given to the vendors who submit a certification with their bid/Bid certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. The drug-free workplace preference is applied as follows:

IDENTICAL TIE BIDS: Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality, and service are received by the State of by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drugfree workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program.

As the person authorized to sign this statement, I certify that this firm complies fully with the following requirements:

- 1) This firm publishes a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) This firm informs employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) This firm gives each employee engaged in providing the commodities or Bidderual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), this firm notifies the employees that, as a condition of working on the commodities or Bidderual services that are under bid, the employee will abide by the terms of the statement and will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state. for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) This firm imposes a sanction on or requires the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6) This firm will continue to make a good faith effort to maintain a drug-free workplace through implementation of this section.

Zabatt Power Systems

Firm Name (print)

Printed Name and Title

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Form 4 - Conflict of Interest Disclosure Form

The award of this ITBC is subject to the provisions of Chapter 112, Florida Statutes and Palm Beach County Ordinance Section 2-443. All Bidders must disclose: the name of any officer, director, or agent who is also an employee or relative of an employee of the City.

Furthermore, all Bidders must disclose the name of any City employee or relative(s) of a City employee who owns, directly or indirectly, an interest in the Bidders firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for key personnel involved in the award of this ITBC.

The term "conflict of interest" refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee's professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

management, instruction, research, or other professional activities.
Select the statement below which applies to Bidder and, if applicable attach supporting information:
To the best of our knowledge, the undersigned firm has no potential conflict of interest as defined in Chapter 112, Florida Statutes and Section 2-443, Palm Beach County Code of Ordinances.
☐ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest as defined in Chapter 112, Florida Statutes and Section 2-443, Palm Beach County Code of Ordinances.
Acknowledged by:
Zabatt Power Systems
Signature Signature Date
J. MICHAEL SABATICA, PRES
Printed Name and Title
Disclose the name of any officer, director or agent of Bidder who is also an employee of the City. Disclose the name of any City employee who owns, directly or indirectly, any interest in the Bidder's firm or any of its branches. If no conflicts of interests exist enter N/A.
NONE

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Form 5 - Schedule of Pricing

A. PRICE: Bidder must submit bid pricing per the requirements and specification detailed in this ITBC.

Bid Items	Measurements	Unit List	Payment
Item No. 1 – Generator Purchase	Qty 1	Each	\$38,736.00
Item No. 2 – Scope of Work / Labor	Qty 1	Lump	\$ 65,733.00
Item No. 3 – Owner's Contingency Allowance		Lump	\$10,000.00
Item No. 4 – Indemnification		Lump	\$10.00

GRAND	TOTAL	BASE	BID
-------	-------	------	-----

\$ 114,479.00

NOTE: Bidder shall include in his bid all costs associated with materials, handling, delivery and storage. Unless where noted otherwise, provide all labor, material, equipment and incidentals necessary for complete Work. Successful Bidder shall warrant and guarantee all materials and workmanship for a period of one year from date of final completion and acceptance by City.

NOTE: Bid pricing must include all costs and fees associated with demolition.

B.	INDEMNIFICATION: The dollars and other good indemnification provided he	and valuable consider	ration as specific co	nsideration for the
	above includes said consider			
	☐ Yes	☐ No		
C.	JOINT BIDDING, CO-OPE price, terms, and condition Governmental agencies?			
	☐ Yes	☐ No		
D.	BID INFORMATION WAS	OBTAINED FROM:		
	☐ BidSync	☐ Newspaper Ad	☐ City Hall	
	Other (specify)_			

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Schedule of Pricing

TRENCH SAFETY ACT Florida Statutes Section 553.60 et seq.

"Trench Safety Act" Compliance

Bidder acknowledges that the Florida Trench Safety Act, Section 553.60 et. seq., which became effective October 1, 1990, shall be in effect during the period of construction of the project. The Bidder by signing and submitting a Bid is, in writing, assuring that it will perform any trench excavation in accordance with the applicable trench safety standards. The Bidder further identifies the following separate item of cost of compliance with the applicable trench safety standards as well as the method of compliance.

Method of Compliance	Cost
N/A - will not be trenching deeper than 3ft	

Bidder acknowledges that the Trench Safety Act Method of Compliance Cost shown above is included in the applicable items of its Bid and in the Grand Total bid price. Failure to complete the above may result in the Bid being deemed non-responsive.

The Bidder is, and the City and Engineer are not, responsible to review or assess City's safety precautions, programs or costs, or the means, methods, techniques or technique adequacy, reasonableness of cost, sequences or procedures of any safety precaution, program or cost, including but not limited to, compliance with any and all requirements of Florida Statute Section 553.60 et. seq. cited as the "Trench Safety Act". Bidder is, and the City and Engineer are not, responsible to determine if any safety or safety related standards apply to the project, including, but not limited to, the "Trench Safety Act".

Form 6 – Genuine Bid

By signing this Form 7, Genuine Bid, Bidder confirms this Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over the City; no City official nor any City employee has a direct or indirect interested in said bid, in the supplies or work to which it relates, to any person associated with the firm performing the work, or to the profits resulting from the work.

Firm Name:	Zabatt Power Syste	ms
Street Address:	4612 Highway Ave, C	Jacksonville, FL 32254
Mailing Address (if differ	rent from Street Address):	same as above
Telephone Number(s)	904-384-4505	
Fax Number(s):	904-394-7446	
Email Address:	sales@zabatt.com	
Federal Identification Nu	ımber: 59-1889271	

J. MICHAEL SABATION, PRES

Printed Name and Title

Form 7 - Bid Guaranty

The undersigned Bidder agrees as follows:

Accompanying this Bid is a certified check, cashier's check or bid bond (5% of total Bid Price
meeting the requirements of the Contract Documents for \$_5.724.00
payable to the City of Delray Beach which is to be forfeited if, in the event that this Bid is accepted
the undersigned shall fail to execute the contract and furnish satisfactory Contract Security and
furnish insurance certificates under the conditions and within the time specified in the Instructions
to Bidders; otherwise, said certified check, cashier's check or bid bond is to be returned as
provided herein. NOTE: Bidder must use the Bid Bond forms on the following pages.

☑ Bid Security in the amount of 5% of the Bidders maximum bid price is attached.

Firm Name (print)

Signature

J. MICHAEL SARATIER, PRESIDENT

Printed Name and Title

BID BOND

STATE OF FLORIDA) SS
COUNTY OF Duval
Zabatt Engine Services Inc dba KNOW ALL MY BY THESE PRESENTS that Zabatt Power Systems Inc
as Principal, and Sentry Insurance a Mutual Company as surety, are held and firmly bound unto the City of Delray Beach, Florida, hereinafter called the City in the penal sum of Five Thousand Seven Hundred Twenty-Four and 00/100 dollars (\$5,724.00) lawful money of the United States, for the payment of which sum will and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.
THE CONDITIONS OF THIS OBLIGATION ARE SUCH, that whereas the Principal has submitted the accompanying bid, dated 9/1/2016, for project titled:
ITBC No. 2016-133 Replacement of Emergency Generator for Fire Rescue Station No. 5
NOW, THEREFORE,
(a) It is a condition precedent to the submission of said bid that a certified check, cashier's check or bid bond in the amount of five percent (5%) of the base bid be submitted with said bid as a guarantee that Bidder would, if awarded the contract, enter into a written contract with the City for the completion of the Work specified in the Contract Documents for the amount indicated in the Bid.
(b) If the Principal shall not withdraw said bond within (90) days after date of the same, and shall within fifteen (15) days after the prescribed forms are presented to him for signature, enter into a written contract with the City in accordance with the bid as accepted, and give bonds with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract, then the above obligation shall be void and of no effect, otherwise the sum herein stated shall be due and payable to the City and the surety herein agrees to pay said sum immediately upon demand of the City in good and lawful money of the United States of America as liquidated damages for failure thereof of said principal.
IN WITNESS WHEREOF, the above-bounded parties executed this instrument under their
several seals, this <u>1st</u> day of <u>September</u> , 2016 the name and corporate
seal of each corporate party being hereto affixed and these presents duly signed by its
undersigned representative, pursuant to authority of its governing body.

IN/A		,	on behalf of
N/A	(surety person)	have read	and examined
	(surety company)		
examined th	e Performance and Payment Bo	nds attached to ITBC No.	2016-133.
N/A Signat	ure		
Date: N/A			
WITNESS:	(If Sole Ownership or Partnership	o, two (2) Witnesses require	ed). (If Corporation,
Secretary On	ly will attest and affix seal)		
WITNESSES	:	PRINCIPAL	
		7-1	Zahati Dawas Systems Inc
1/	-	Zabatt Engine Services Inc dba 2 (firm name)	Zabatt Power Systems Inc
By: Vugue	n Olyc	111. 1	
	Virginia Rover	By: (Signature of Authoriz	and Officer)
Printed Name	Virginia Buyer	V (Signature of Authoriz	ad Omosiy
By:		Print Name: J. MICHAE	L SABATIER
Printed Name: _	HENRY CARPENTER	Title: PRES (DEW)	•
Fillited Name.			
		Business Address:	
		4612 HIGHWAY	AVE
		JACKSONVILLE, F	1. 22254
		- I SI-SUNVILLE, F	/

CORPORATE SEAL:

MUTUAL	SURETY:
WITNESSES:	Sentry Insurance a Mutual Company (Surety firm name)
Print Name: Rita M. Ginder WISC	(Signature, Attorney-in-Fact)
By: Sue Bemberek	Printed Name:
Print Name: Sue Bembenek	Business Address: 1800 North Point Drive Stevens Point, WI 54481
	Name of Local Insurance Agency Sentry Insurance a Mutual Company

Fleming Island, FL 32003

POWER OF ATTORNEY

No. 67-31981-25



Know all men by these presents, that Sentry Insurance a Mutual Company, a corporation duly organized under the laws of the State of Wisconsin, and having its principal place of business in the City of Stevens Point, State of Wisconsin, does hereby make, constitute and appoint JOHN T. BAUMAN, BEVERLY R. BEIGEL, DORENE R. BIALAS, RITA M. GINDER, CHERYL M. JISKO, ANDY M. KURSZEWSKI, JENNIFER M. MURPHY, JENNIFER L. THAUER, MICHELLE M. THAUER, AND LYNDA L. WACHOWIAK, as its true and lawful Attorneys-in-Fact, for it, and in its name, place and stead, with full power and authority to sign, execute, acknowledge and deliver for and on its behalf as Surety, any and all bonds with an effective date on or after June 5, 2015.

Signed:

Pat M Partland Peter G. McPartland, Chairman of the Board, President and Chief Executive Officer

SENTRY INSURANCE A MUTUAL COMPANY

Attest:

Keng Jan Kenneth J. Erler, Senior Vice President, Chief Administrative Officer, General Counsel and

Corporate Secretary

SENTRY INSURANCE A MUTUAL COMPANY

STATE OF WISCONSIN

COUNTY OF PORTAGE

I, Shelley M. McEachen, Notary Public, do hereby certify that Peter G. McPartland, Chairman of the Board, President and Chief Executive Officer, and Kenneth J. Erler, Senior Vice President, Chief Administrative Officer, General Counsel and Corporate Secretary, of Sentry Insurance a Mutual Company, personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such Chairman of the Board, President and Chief Executive Officer and the Senior Vice President, Chief Administrative Officer, General Counsel and Corporate Secretary, appeared before me this day in person and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and official seal this 5th day of June, 2015.



Shelley M. Mc Eachen
Shelley M. McEachen

My Commission expires 10/17/17.

AUTHORIZATION

I, Kenneth J. Erler, Senior Vice President, Chief Administrative Officer, General Counsel and Corporate Secretary of Sentry Insurance a Mutual Company, hereby certify that Sentry Insurance a Mutual Company is duly licensed to transact fidelity and surety business in all states of the United States of America, that the foregoing Power of Attorney is a correct and true copy of the original Power of Attorney, and that said Power of Attorney has not been revoked. I further certify that the following is a true and exact copy of a resolution passed by the Board of Directors of Sentry Insurance a Mutual Company at a meeting held by said Board, a quorum being present and voting on May 7, 1970, which resolution is still in effect:

RESOLVED: That the President, the Vice President or the Treasurer of this Corporation shall have authority to appoint in writing such attorneys-in-fact as the business of the Corporation may require, and to authorize such attorneys-in-fact, and each of them to execute on behalf of the Corporation, any bonds, recognizances, stipulations, contracts of indemnity and other undertakings of like character, or to exercise any lesser number of said powers as hereinbefore set forth, and BE IT FURTHER RESOLVED: That said appointments shall be attested by the Secretary or an Assistant Secretary of this Corporation under its seal. The signature of the Secretary or any Assistant Secretary to certified copies of such powers of attorney may be original or facsimile, and when the corporate seal is affixed thereto, any third party may rely on said certified copies of powers of attorney as the act and deed of this Corporation. The President, Vice President, or Treasurer may revoke any appointment made pursuant hereto, and revoke any and all authority conferred by any such appointment.

Given under my hand and official seal this 1st day of September, 2016.

Attest:

Kenneth J. Erler, Senior Vice President, Chief Administrative Officer, General Counsel and Corporate Secretary

Sentry Insurance a Mutual Company

Form 8 - CONE OF SILENCE

The Palm Beach County Lobbyist Registration Ordinance (Sections 2-351 through 2-357 of the Palm Beach County Code of Ordinances) is applicable in the City of Delray Beach. Section 2-355 of the Palm Beach County Lobbyist Registration Ordinance includes a "Cone of Silence" provision that limits communication during the City's procurement process in regard to this RFP, which provides as follows:

Sec. 2-355. Cone of silence.

- (a) Cone of silence means a prohibition on any communication, except for written correspondence (with the Purchasing Department), regarding a particular request for proposal, request for qualification, bid, or any other competitive solicitation between:
 - (3) Any person or person's representative seeking an award from such competitive solicitation; and
 - (4) Any county commissioner or commissioner's staff, any member of a local governing body or the member's staff, a mayor or chief executive officer that is not a member of a local governing body or the mayor or chief executive officer's staff, or any employee authorized to act on behalf of the commission or local governing body to award a particular contract.
- (b) For the purposes of this section, a person's representative shall include but not be limited to the person's employee, partner, officer, director, consultant, lobbyist, or any actual or potential subcontractor or consultant of the person.
- (c) The cone of silence shall be in effect as of the deadline to submit the proposal, bid, or other response to a competitive solicitation. The cone of silence applies to any person or person's representative who responds to a particular request for proposal, request for qualification, bid, or any other competitive solicitation, and shall remain in effect until such response is either rejected by the county or municipality as applicable or withdrawn by the person or person's representative. Each request for proposal, request for qualification, bid or any other competitive solicitation shall provide notice of cone of silence requirements and refer to this article.
- (d) The provisions of this article shall not apply to oral communications at any public proceeding, including pre-bid conferences, oral presentations before selection committees, contract negotiations during any public meeting, presentations made to the board or local municipal governing body as applicable, and protest hearings. Further, the cone of silence shall not apply to contract negotiations between any employee and the intended awardee, any dispute resolution process following the filing of a protest between the person filing the protest and any employee, or any written correspondence at any time with any employee, county commissioner, member of a local municipal governing body, mayor or chief executive officer that is not a member of the local municipal governing body, or advisory board member or selection committee member, unless specifically prohibited by the applicable competitive solicitation process.
- (e) The cone of silence shall not apply to any purchases made in an amount less than the competitive bid threshold set forth in the county purchasing ordinance (County Code, chapter 2, article III, division 2, part A, section 2-51 et seq.) or municipal ordinance as applicable.
- (f) The cone of silence shall terminate at the time the board, local municipal governing body, or a county or municipal department authorized to act on behalf of the board or local municipal governing body as applicable, awards or approves a contract, rejects all bids or responses, or otherwise takes action which ends the solicitation process.
- (g) Any contract entered into in violation of the cone of silence provisions in this section shall render the transaction voidable.

By signing below, Bidder agrees to abide by the restrictions in this Cone of Silence.

Signature: Multi-	Date:	8/18/16
Printed Name: J. MICHARI SABATICA	Title:	PRES

Form 9 - Non-Collusion Affidavit

STATI	E OF FLORIDA
)SS
COUN	TY OF DUVAL
J.	MICHAEL SABATICE being first duly sworn, deposes and states that:
	(Name)
(1)	He / She is the <u>PRESTBENT OF ZABATT</u> (Owner, Partner, Officer, Representative or Agent)
(2)	He / She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
(3)	Such Bid is genuine and is not a collusive or sham Bid;
(4)	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;
(5)	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. By:
	Print Name: J. MICHING STIBITION
Subscrib	ped and sworn to before me this 19th day of August , 2016
	Signature and Stamp of Notary Public
	My Commission Expires: MY COMMISSION # FF 132421 EXPIRES: July 25, 2018 Bonded Thru Bodget Notary Services

Form 10 - INFORMATION REQUIRED OF BIDDER

BIDDER'S GENERAL INFORMATION:

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

Bidder's Fed	eral Identification Nu	ımber:	59-18892	71	
	phone number:				
-	oresentative and conf	tact for thi	s ITBC:		
Name:	Carlos Hernandez				
Phone:	786-390-7855				
∃mail: <mark>ca</mark> r	los.hernandez@za	batt.com			
Number of y	ears as a Contractor	in this typ	e of work:	38	
Names and t	itles of all officers of	Bidder's f	irm:		
 J. N	e Sabatier, CEO lichael Sabatier, Pi ldra Sabatier, Secr				
he required SENT 1800	ess, and telephone no bonds on this contra KY /NS UR, WURTH PO CNS POINT, I	umber of s ct: BNCE	surety compa	ny and agent who	

and tabulated using basic material prices. The following is a list of material manufactures and subcontractors whose materials and services said Contractor propose to furnish and utilize if the awarded an Agreement for the work specified herein and shown on the Plans. It is understood that the following list is not complete but includes the names of manufactures of the principal components and subcontractors supplying principal services to said project. It is also understood that if awarded a Contract, the Contractor will furnish the materials of the manufactures and utilize the services of the subcontractors stated herein and that if for any reason whatsoever Contractor wishes to substitute materials or subcontractors he shall request permission in writing from the City stating fully the reason for making such a request prior to ordering same.

All of said manufactures or their authorized vendors have been made aware of all the appropriate portions of the Contract Documents and agree that their materials will meet all of the requirements stated therein and that deliveries will be scheduled so as not to impede the progress of the work.

Materials:	Manufacturer
100kw Generator	Generac Corp
400A Transfer Switch	ASCO, Emerson
Subcontractors:	
Name	Primary Duties
· · · · · · · · · · · · · · · · · · ·	Signature of Bidder By:
	Print Name: J. MICHAEL SMBATER

[Remainder of page intentionally left blank]

Form 11 - QUESTIONNAIRE

The undersigned guarantees the truth and accuracy of all statements and answers herein contained.

1. Identify the last project similar to the work described in this ITBC that Bidder has completed (provide the project name, owner's name, and location).

City of Leesburg Reclamation City of Leesburg 1600 CR 470 Okahumpka, FL 34762

2. Has Bidder ever failed to complete work awarded. If yes, identify the project, where it was located, and why Bidder did not complete the work?

None

3. Provide three client references, either individuals or corporations, for which Bidder has performed work and who are agreeable to respond to the City's request for feedback.

Client Reference 1

Client Name: City of Leesburg

Work Performed:

sales & installation of a 125kw

diesel genset

Client Reference 2

Client Name: City of Vero Beach

Work Performed:

Installed new 250kw generator w/

600A ATS

Client Reference 3

Client Name: Lucien Way

Work Performed: Installed new 180kw generator

Contact Name: Richard Village
Contact Telephone: 407-875-2221
Contact Email: rsvillage@ocsflorida.com

Contact Name: Jerrill Robison

Contact Telephone: 352-728-9786 x2452

Contact Email:

jerrill.robison@leesburgflorida.gov

Contact Name: Heather McCarty
Contact Telephone: 772-978-5471
Contact Email: HMcCarty@covb.org

4. List the following information concerning all contracts on hand as of the date of submission of this proposal. (In case of co-venture, list the information of all co-venturers).

Name of Project	Owner	Contract Value	Contract Date/Completion Date
NeuLife	NeuLife	\$145,997	Aug 2016 / Dec 2016

_	Has Didden		:	Ala	يتمام والمحتروب	لمصمما	
5.	Has Blader	personally	inspected	the proposed	a work si	te and	conditions?

Yes, attended the Mandatory Pre-Bid conference on August 17, 2016

6. Does Bidder have a complete plan for its performance?

Yes

7. Will Bidder sublet any part of this work? If yes, provide details of which portions will be sublet.

No

8. What equipment does Bidder own that is available or the work? (Attach additional sheets as necessary).

Item	Description
1	Company owned service truck
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

9. What equipment will Bidder purchase for the proposed work? (Attached additional sheets as necessary).

	sneets as necessary).
Item	Description
1	none known, or expected
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

10. What equipment does Bidder plan to rent for the proposed work? (Attached additional sheets as necessary).

Item	Description
1	possibly a crane and/or forklift to offload and set generator
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

11. What materials does Bidder plan to utilize for the proposed work? (Attach additional sheets as necessary)

	sneets as necessary).	
Item	Manufacturer	Material
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
		I .

12. What subcontractor(s) will Bidder utilize for the proposed work, and what are the duties of each subcontractor? (Attached additional sheets as necessary).

Item	Subcontractor	Duties
1	None	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

(If Sole Ownership or Partnership, two Witnesses required. If Corporation, Secretary Only will attest and affix seal)

WITNESSES:

BIDDER

By: Edwn Deigara

Printed Name: Edwin Vergara

Printed Name: Marthew Crauth

ZABATT PÜNER SYSTEMS, INC. (Bidder name)

By: (Signature of Authdrized-Officer)

Printed Name: J. MICHAGL SABATICA

Title: PRESIDENT

Corporate Seal

Form 12 - Acknowledgment of Addenda

The Bidder hereby acknowledges the receipt of the following addenda, which were issued by the City and incorporated into and made part of this ITBC. The Bidder acknowledges that it is solely responsible for ensuring that it is aware of, and in receipt of, all addenda.

ADDENDA NUMBER	ADDENDA DATE
Addendum No. 1	August 17, 2016
Addendum No. 2	August 19, 2016
Addendum No. 3	August 24, 2016

Zabatt Power Systems

Bidder (f(m) name) 🔹	20		m / /	
Colun	Deiga	ra	8/29/16	
Signature			Date	
Edwin	Vergara	- Saks		
Printed Name and Title				

Section2 - Item 2 - Part C:

Qualifying Project #1:

i. Project Owner: SMA Services

ii. Contact Name: Scott Clark

iii. Contact email: ph 727-439-4157

iv. Project Location: Deland Inn

350 E. International Speedway

Deland, FL 32724

v. Dates of Project: Start - May, 2015 (order date)

End - Nov, 2015

vi. Description:

<u>Installation – Scope of Work (License # EC13006469)</u>

- Expand existing generator concrete pad
- Disconnect and remove existing generator
- Install new 200kW, 480V, three phase diesel generator with sub-base tank
- New generator to have (1) 60A, (1) 150A, (1) 250A circuit breakers
- Wire existing wiring to generator 60A and 150A circuit breakers
- Install new 250A, 480V, 3phase, automatic transfer switch to add additional selected circuit
- Install new 250A, 480V, 3phase circuit panel for freight elevator, one RTU
- Install new step down 480V to 208V transformer
- Install new 150A, 208V, 3phase ,circuit panel for walk-in cooler, lighting circuits, outlet circuits
- Install new 250A circuit in main distribution panel to supply utility power to new 250A automatic transfer switch
- Relocate selected circuits to new circuits
- Install new relay to place new 250A ATS in neutral position only when fire pump is running under generator power
- Install battery charger circuit
- Install new remote annunciator panel
- Supply crane and rigging
- Obtain electrical permit
- Quote includes: labor, material, permitting, crane

Qualifying Project #2:

i. Project Owner: City of Daytona Beach

ii. Contact Name: Rick Doyle

iii. Contact email: DoyleR@codb.us

iv. Project Location: Engineering Division

950 Bellevue Ave

Daytona Beach, FL 32114

v. Dates of Project: Start – March, 2016 (order date)

End - Aug, 2016

vi. Description:

<u>Installation – Scope of Work (License # EC13006469)</u>

Install new Pre-Cast concrete pad

Disconnect and remove existing generator

Disconnect and remove existing transfer switch

- Install new 80kW, 120/240V, 3ph NG with LPG back-up dual fuel generator w/ block heater
- Install new 400A non-service rated 120/240V, 3phase, 3pole, automatic transfer switch

Install isolator pads between concrete pad and generator main frame

- Power outage is allowed to be completed during business hours of 8am 5pm, Monday thru
 Friday (will have a minimum one week power outage notice)
- Supply all labor and material required to complete project per National Electrical code

Obtain necessary permit

- Install new 1000 gallon LPG tank (initial fill included) and connection to generator
- Install new NG piping and connections to generator from gas meter (Teco to install new gas meter if necessary)
- Quote includes: labor, material, crane and rigging, and permit

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

GBC1257077

The BUILDING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2018

SIEGEL, JEREMYASHER ZABATT INC 14505 AMELIA COVE DRIVE JACKSONVILLE FL 32226





ISSUED: 07/14/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1607140000864



Division of Zabatt, Incorporated 4612 Highway Avenue Jacksonville, FL 32254 PH: 904 384 4505

FX:

904 394 7446 www.zabatt.com

Jacksonville

Orlando

Tampa

09/01/16

RE: Letter of Intent for "ITBC 2016-133 Replacement of Emergency Generator at Fire Station No. 5"

ATTN: Ryan Lingholm, lingholmr@mydelraybeach.com

Section 2 – Item 3 – Part A "Letter of Intent"

Installation - Scope of Work (License # EC13006469)

- Demolition of Structures and Electrical to be performed as shown and described in dwgs PR-1 & A-1
- Remove existing landscaping as required and replenish as needed
- Existing walls and/or structures not scheduled for demolition will be protected or restored to like manner
- Install new Generator concrete pad
- Build new Masonry walls with Aluminum swing gate to protect Generator as described in dwg A-2
- Construction work to be completed as described in dwg A-2
- Install new 100kW, 208V, three phase Dual fueled (Natural Gas/LP Vapor) Generator
- Install new 400A, 208V, 3phase, 3pole, Service Entrance Rated NEMA 3R Automatic Transfer Switch
- Install new remote Annunciator panel and remote Emergency Stop push button
- All work performed is NOT to interfere or disrupt the operation and function of the Fire Station
- Supply all labor and material required to complete project per National Electrical Code
- Supply crane and rigging
- Obtain electrical permit
- Quote includes: labor, material, permitting, crane
- Quote excludes. LP Tank, Natural Gas meter, regulator, plumbing, and connections

Contact Information:

Carlos Hernandez Sales Rep cell: 786-390-7855

carlos.hernandez@zabatt.com

Zabatt Power Systems 4612 Highway Ave Jacksonville, FL 32254

Section 2 - Item 3 - Part B: Statement of Organization

i. Full Legal Name: Zabatt Power Systems

ii. Address: 4612 Highway Ave, Jacksonville, FL 32254

iii. Phone: 904-384-4505 iv. Fax: 904-394-7446

v. Email Address: sales@zabatt.com

vi. Website: www.zabatt.com

vii. Type of organization: Corporation

viii. Hours of operation: Office: M-F, 8-5pm

Service Department: available 24hrs/7days emergency service

ph: 800-366-1323

ix. Years in Business: 38yrs

x. Address of Corporate Headquarters: 4612 Highway Ave, Jacksonville, FL 32254

xi. Address of local office: 911 NW 209th Ave, Pembroke Pines, FL 33029

xii. List of contact personnel:

Jose Sabatier owner / CEO 904-421-9827

Michael Sabatier President 904-421-9822

Chad Rowland
Operations Manager
904-647-2469

Carlos Hernandez Sales Rep 786-390-7855

xiii. Additional Info: Zabatt has been in business for 38yrs providing Sales, Parts, and Service of Generators and Air Compressors throughout the state of Florida. Some of the Product lines include: Generac, AKSA, and Gardner Denver. We have a department specializing in turn-key installations of generators and air compressors.



Date: 08/29/16 Quote Number: 37218

Quote Expires: 90 days from issue date



Zabatt Inc.
Corporate Office
4612 Highway Ave Jacksonville, FL 32254
Ph: 904-384-4505
Fax: 904-394-7446

Project: City of Delray Beach – Fire Station No. 5 – ITBC No. 2016-133

We are pleased to offer the following proposal for your project:

Quantity 1 - Generac Industrial gaseous engine-driven generator, 9.0L V-8 engine, consisting of the following features and accessories:

- Dual Fuel System
 - Natural Gas Primary
 - LP Vapor Secondary
- 100 kW Rating, wired for 120/208 VAC three phase, 60 Hz
- · Stationary Emergency-Standby rated
- Permanent Magnet Excitation
- Alternator Strip Heater
- UL2200
- EPA Certified
- SCAQMD
- H-100 Control Panel
 - Meets NFPA 99 and 110 requirements
 - Temp Range -40 to 70 degrees C
 - Digital Microprocessor:
 - Two 4-line x 20 displays, full system status
 - 3 Phase sensing, +/-0.25% digital voltage regulation
 - RS232, RS485 and Canbus remote ports
 - Waterproof connections
 - All engine sensors are 4-20ma for minimal interference
 - Programmable I/O
 - Built-in PLC for special applications
 - Engine function monitoring and control:
 - Full range standby operation; programmable auto crank, Emergency Stop, Auto-Off-Manual switch
 - Isochronous Governor, +/-0.25% frequency regulation
 - Full system status on all AC output and engine function parameters
 - Service reminders, trending, fault history (alarm log)
 - I2T function for full generator protection
 - Selectable low-speed exercise
 - HTS transfer switch function monitoring and control
 - 2-wire start controls for any 2-wire transfer switch
- Level 1 Acoustic Enclosure Steel (avg 75dBA @ full load 23ft)
 - o Industrial Grey Baked-On Powder Coat Finish
- Standard MLCB, 80% rated thermal-magnetic
 - o 400 Amp
 - Shunt trip and Auxiliary Contacts
 - o w/ std factory lugs
- Battery Charger, 10 Amp, NFPA 110 compliant, installed



Date: 08/29/16 Quote Number: 37218

Quote Expires: 90 days from issue date



Zabatt Inc. Corporate Office 4612 Highway Ave Jacksonville, FL 32254 Ph: 904-384-4505 Fax: 904-394-7446

Project: City of Delray Beach – Fire Station No. 5 – ITBC No. 2016-133

- 110 AH, 925 CCA Group 31 Battery, with rack, installed
- Coolant Heater, 1500W, 120VAC
- Remote Emergency Stop Switch, break-glass, shipped loose
- Flex Fuel Line
- 21 Light Annunciator w /flush mount kit
- Std set of 3 Manuals

Quantity 1 - Automatic Transfer Switch:

- ASCO 300 Series
- Rated at 400 Amp
- 208 Volt, 3 Phase, 3 Pole
- Service Entrance Rated
- Shunt trip
- Auxiliary contacts (14AA / 14BA)
- Load disconnect contacts (31Z)
- Exerciser (11BE)
- NEMA 3R Enclosure

Installation – Scope of Work (License # EC13006469)

- Scope of Work to include replacement of the existing Emergency Generator with a new 100kW, 120/208V,
 3ph Natural Gas/LP Vapor Generator
- Installation of a new 400A, 208V, 3ph, 3pole, Service Entrance Rated, NEMA 3R Automatic Transfer Switch
- Excludes: LP Tank, Natural Gas meter, regulator, plumbing, and connections

^{*}Specific circuit breaker only ATS provided

^{*}Upstream breakers must NOT be LSI

^{*}Any alterations or deviations from the above specifications involving extra costs will be executed only upon written order, and will become an extra charge over and above the estimate; including and not limited to authority having jurisdictions changes and unforeseen violations.



Date: 08/29/16 Quote Number: 37218

Quote Expires: 90 days from issue date



Zabatt Inc. Corporate Office 4612 Highway Ave Jacksonville, FL 32254 Ph: 904-384-4505 Fax: 904-394-7446

Project: City of Delray Beach – Fire Station No. 5 – ITBC No. 2016-133

Miscellaneous:

On-Site Start Up and Testing

Warranty:

Generator: 5-Year Comprehensive Warranty (from date of performing start up)

ATS: 5-Year Limited Warranty (from date of shipment from factory)

Gaseous units are NOT field convertible per EPA requirements

FOB Origin, full freight allowed to first destination

The Following Is Not Included:

Fuel / Plumbing / Meter / Regulator Load Bank Testing Service & Maintenance Agreement

10 - 12 Week Estimated Ship Date

PRICE: \$ 104,469 + 10,000.00 (Owner's contingency Allowance) + \$10.00 (Indemnification) = \$114,479.00 plus applicable sales tax

- Customers are responsible for paying sales and use tax on goods shipped outside of the State of Florida.
- Zabatt, Inc. is a State of Florida Certified Minority owned business.
- •Built in discount of 2.5% has been applied to quote for payments that consist of cash, check, EFT or wire transfer.



Date:

08/29/16

Quote Number: 37218

Quote Expires: 90 days from issue date

GENERA

Zabatt Inc. Corporate Office 4612 Highway Ave Jacksonville, FL 32254 Ph: 904-384-4505 Fax: 904-394-7446

Project: City of Delray Beach – Fire Station No. 5 – ITBC No. 2016-133

Changes, Cancellations, and Returns

Any order or contract may be cancelled by the customer only upon the payment of reasonable charges and expenses incurred by Zabatt on or before the date of receipt by Zabatt of said notice of cancellation. Such reasonable charges and expenses may include, but are not limited to, any cancellation charges incurred by Zabatt for the cancellation and/or any liabilities for orders or commitments for materials or services previously ordered by Zabatt in connection with the cancelled customer order or contract. No material or product may be cancelled or returned for credit without first obtaining the written approval of, and at the sole discretion of, Zabatt. All shipping costs on returned material must be pre-paid by the customer. Accepted returns are subject to the charges, terms and requirements notified in writing to the buyer (which may include, with no limitations or exceptions, a 15% restocking fee).

Delivery, Shipments, and Claims (to include Warranty)

All charges for work performed during the warranty period are the responsibility of the customer until approved by the appropriate warranty authority. Warranties are subject to the manufacturer's guidelines. Even those warranty claims which are approved may not include 100% of the repairs or parts; the customer is responsible for charges excluded from warranty. Contingency payment arrangements must be made prior to any warranty work being performed. Batteries, oil, coolant, filters and adjustments are not covered as part of warranty repairs and will be billed to the customer at appropriate rates.

Price and Minimum Billing

Price shall be in accordance with rates currently in effect at the time the quote is received and shall expire on the date described in said quote. All quotes for services, parts, equipment, and labor will be issued in writing and have a system generated quote number. Verbal quotes are not valid and should not be accepted. A signed copy of the quote must on file before any work can be performed. Signature on said quote shall serve as the customer's acceptance Zabatt's billing guidelines and rates. Labor prices on guotes are good for a period of (60) sixty days from the date of issue unless otherwise specified. Parts and equipment prices are subject to change and billed at the current price at the time of purchase unless otherwise specified. All regular service calls and emergency calls within normal hours will be billed for a minimum of one hour of labor and ten miles of travel. All emergency after-hour calls will be billed for a minimum of four hours labor and ten miles of travel.

Credit and Payment Terms

Commercial customers who have not established a credit account with Zabatt must make payment arrangements before goods are delivered or a technician is dispatched. No credit terms will be extended to end-users. We cannot accept payment on site but must have a signed credit card authorization on file in order to perform any service work on new accounts. No work will be performed for, or product delivered to, customers who are on credit hold. This hold includes any emergency repairs and warranty work that may be required. Account must be paid in full or alternate means of payment must be coordinated and approved before work is performed or product is delivered. Service Rate Definitions and Conditions are available as a separate document

Agreement

This agreement consists of, and is limited to, a qualified technician performing scheduled maintenance in accordance with the manufacturer's recommendations. Zabatt, Inc will not be held liable for damages to the equipment or property as a result of equipment failure caused by any of, but not limited to, the following circumstances; improper or unauthorized operation; normal wear and tear or damage due to overloading; vandalism, theft or acts of a third party; acts of nature; failure to perform services due to hazardous conditions and other causes beyond the control of Zabatt Inc.

Signature and acceptance of the quotation constitutes agreement to comply with Zabatt's terms and conditions as attached. Signature of Owner or Representative Date Signature of Zabatt Representative Date

Carlos Hernandez (786) 390-7855 Carlos.Hernandez@zabatt.com

STANDBY POWER RATING

100 kW, 125 kVA, 60 Hz

PRIME POWER RATING*

90 kW, 113 kVA, 60 Hz





^{*}EPA Certified Prime ratings are not available in the U.S. or its Territories.

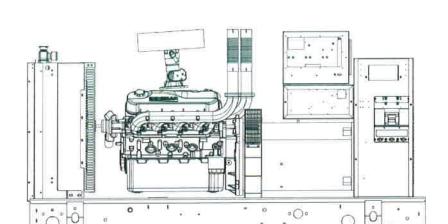


Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



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



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41





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

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

| **9.0L** | 100 kW SG100

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

General

- · Oil Drain Extension
- · Air Cleaner
- · Fan Guard
- · Stainless Steel flexible exhaust connection
- · Factory Filled Oil & Coolant
- · Radiator Duct Adapter (open set only)
- · Critical Exhaust Silencer (enclosed only)

Fuel System

- · Flexible fuel line NPT Connection
- · Primary and secondary fuel shutoff

Cooling System

- · Closed Coolant Recovery System
- · UV/Ozone resistant hoses
- · Factory-Installed Radiator
- · 50/50 Ethylene glycol antifreeze
- · Radiator drain extension

Engine Electrical System

- · Battery charging alternator
- · Battery cables
- · Battery tray
- · Rubber-booted engine electrical
- · Solenoid activated starter motor

ALTERNATOR SYSTEM

- UL2200 Genprotect
- · Class H insulation material
- 2/3 Pitch
- Skewed Stator
- · Brushless Excitation
- · Sealed Bearings
- · Amortisseur winding
- · Full load capacity alternator

GENERATOR SET

- · Internal Genset Vibration Isolation
- · Separation of circuits high/low voltage
- · Separation of circuits multiple breakers
- Wrapped Exhaust Piping
- · Standard Factory Testing
- · 2 Year Limited Warranty (Standby rated Units)
- 1 Year Warranty (Prime rated units)
- · Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- · Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material (L1 & L2)
- · Gasketed doors
- · Stamped air-intake louvers
- · Air discharge hoods for radiator-upward
- · Stainless steel lift off door hinges
- · Stainless steel lockable handles
- . Rhino Coat™ Textured polyester powder coat

CONTROL SYSTEM



Control Panel

- · Digital H Control Panel Dual 4x20 Display
- · Programmable Crank Limiter
- 7-Day Programmable Exerciser
- · Special Applications Programmable PLC
- RS-232/485
- · All-Phase Sensing DVR
- · Full System Status
- · Utility Monitoring
- · Low Fuel Pressure Indication
- · 2-Wire Start Compatible
- · Power Output (kW)
- · Power Factor
- · kW Hours, Total & Last Run

- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- · Coolant Temperature · Coolant Level
- · Engine Speed
- Battery Voltage
- Frequency
- 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
- · 15 channel data logging
- · 0.2 msec high speed data logging
- · Alarm information automatically comes up on the display

Alarms

- · Oil Pressure (Pre-programmable Low Pressure Shutdown)
- · Coolant Temperature (Pre-programmed High Temp Shutdown)
- · Coolant Level (Pre-programmed Low Level Shutdown)
- · Low Fuel Pressure Alarm
- · Engine Speed (Pre-programmed Over speed Shutdown)
- · Battery Voltage Warning
- · Alarms & warnings time and date stamped
- · Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- O Engine Block Heater
- O Oil Heater
- O Air Filter Restriction
- O Stone Guad (Open Set Only)

Engine Electrical System

- O 10A & 2.5A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical Coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET

- O Gen-Link Communications Software (English Only)
- O Extended Factory Testing (3 Phase Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

ENCLOSURE

- O Standard Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

CONTROL SYSTEM

- O NFPA 110 Compliant
- O Remote Relay Board (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Bridge
- O Remote Communication Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant heater ball valves
- O Fluid containment pans

ALTERNATOR SYSTEM

O 3rd Breaker Systems

CONTROL SYSTEM

- O Spare inputs (x4) / outputs (x4) H Panel Only
- O Battery Disconnect Switch

GENERATOR SET

- O Special Testing
- O Battery Box

ENCLOSURE

- O Motorized Dampers
- O Intrusion Alert Door Switch
- O Ambient Heaters

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1. Second Edition

SG100 **9.0L** | 100 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

General		Cooling System	
Make	Generac	Cooling System Type	Pressurized Closed
Cylinder #	8	Water Pump Flow -gal/min (l/min)	26 (98)
Туре	V	Fan Type	Pusher
Displacement - L (cu In)	8.9L (540)	Fan Speed (rpm)	2330
Bore - mm (in)	114.23 (4.49)	Fan Diameter mm (in)	558 (22)
Stroke - mm (in)	107.15 (4.25)	Coolant Heater Wattage	1500
Compression Ratio	10.5:1	Coolant Heater Standard Voltage	120 V
ntake Air Method	Naturally Aspirated		
Number of Main Bearings	5		
Connecting Rods	Forged	Fuel System	
Cylinder Head	Cast Iron	Fuel Type	Natural Gas, Propane Vapo
Cylinder Liners	No	Carburetor	Down Draft
gnition	High Energy	Secondary Fuel Regulator	Standard
Piston Type	Aluminum Alloy	Fuel Shut Off Regulator	Standard
Crankshaft Type	Forged Steel	Operating Fuel Pressure (Standard)	11" - 14" H ₃ 0
ifter Type	Hydraulic Roller	Operating Fuel Pressure (Optional)	7" - 14" H ₂ 0
ntake Valve Material	Steel Alloy		
xhaust Valve Material	Stainless Steel		
lardened Valve Seats	Yes	Engine Electrical System	
Engine Governing		System Voltage	12 VDC
	51	Battery Charging Alternator	Standard
Governor Frequency Regulation (Steady State)	Electronic ±0.25%	Battery Size	See Battery Index 0161970SBY
		Battery Voltage	12 VDC
ubrication System		Ground Polarity	Negative
il Pump Type	Gear	·	-
Oil Filter Type	Full-flow sping-on cartridge		
Crankcase Capacity - L (qts)	8.5 (8.0)		

ALTERNATOR SPECIFICATIONS

Standard Model	390mm	Standard Excitation	Brushless
Poles	4	Bearings	Sealed Ball
Field Type	Revolving	Coupling	Direct Drive
Insulation Class - Rotor	Н	Prototype Short Circuit Test	Yes
Insulation Class - Stator	Н	Voltage Regulator Type	Full Digital
Total Harmonic Distortion	<5%	Number of Sensed Phases	All
Telephone Interference Factor (TIF)	<50	Regulation Accuracy (Steady State)	±0.25%

SG100 | **9.0L** | 100 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

		Natural Gas	Propane Vapor
Single-Phase 120/240 VAC @1.0pf	100 kW	Amps: 417	Amps: 417
Three-Phase 120/208 VAC @0.8pf	100 kW	Amps: 347	Amps: 347
Three-Phase 120/240 VAC @0.8pf	100 kW	Amps: 301	Amps: 301
Three-Phase 277/480 VAC @0.8pf	100 kW	Amps: 150	Amps: 150
Three-Phase 347/600 VAC @0.8pf	100 kW	Amps: 120	Amps: 120

STARTING CAPABILITIES (sKVA)

skva	VS.	Voltane	Din

				480	VAC					208/2	40 VAC		
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	100	79	118	157	197	236	275	59	89	118	148	177	206
Upsize 1	130	116	174	232	290	348	406	87	131	174	218	261	305

FUEL CONSUMPTION RATES*

Natural Gas - ft 3/hr (m 3/hr)

Propane Vapor - ft 3/hr (m 3/hr)

Percent Load	Standby	Percent Load	Standby
25%	391 (11.1)	25%	157.4 (4.5)
50%	669 (19.0)	50%	269.9 (7.6)
75%	904 (25.6)	75%	364.4 (10.3)
100%	1116 (31.6)	100%	449.8 (12.7)

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

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft³/min(m³/min)	5797 (164.2)
Coolant Flow per Minute	gal/min (l/min)	26 (98)
Coolant System Capacity	gal (I)	6.0 (22.7)
Heat Rejection to Coolant	BTU/hr	390,000
Max. Operating Ambient Temperature (before derate)	°F (°C)	122 (50)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENT

	Standby
Flow at Rated Power cfm (m3/min)	282 (7.9

ENGINE

EXHAUST

Rated Engine Speed	rpm	Standby 1800	Exhaust Flow (Rated Output)	cfm (m³/min)	Standby 866 (24.5)
Horsepower at Rated kW**	hp	149	Max. Backpressure (Post Turbo)	inHg (Kpa)	1,5 (5,1)
Piston Speed	ft/min	1275	Exhaust Temp (Rated Output - post silencer)	°F (°C)	1230 (666)
ВМЕР	psi	125	Exhaust Outlet Size (Open Set)	mm (in)	63.5 (2.5)

^{**} 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.

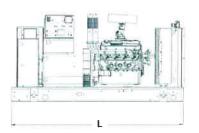
Exhibit A

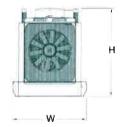
SG100 **9.0L** | 100 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*





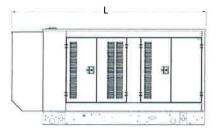
OPEN SET (Includes Exhaust Flex)

LxWxHin (mm)

94.2 (2394) x 40 (1016) x 47.5 (1206)

Weight lbs (kg)

2543 (1153)



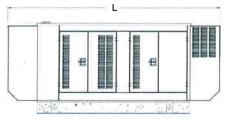


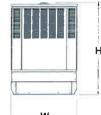
STANDARD ENCLOSURE

111.79 (2839.5) x 40.46 (1027.8) x 56.18 (1427) LxWxHin (mm)

Weight lbs (kg)

Steel: 3072 (1393) Aluminum: 2802 (1271)



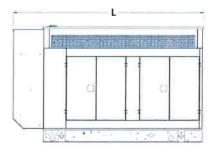


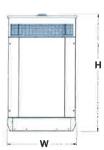
LEVEL 1 ACOUSTIC ENCLOSURE

LxWxHin (mm) 129.42 (3287.2) x 40.46 (1027.8) x 56.18 (1427)

Weight lbs (kg)

Steel: 3233 (1466) Aluminum: 2873 (1303)





LEVEL 2 ACOUSTIC ENCLOSURE

LxWxHin (mm) 111.81 (2840) x 40 46 (1027.8) x 68.61 (1742.8)

Weight lbs (kg)

Steel: 3360 (1524) Aluminum: 2928 (1328)

*All measurements are approximate and for estimation purposes only,

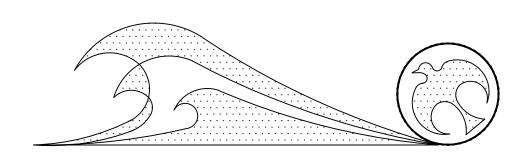
YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Fire Station No. 5 - Emergency Generator & Enclosure

City of Delray Beach Project Number 14-011

4000 Germantown Road, Delray Beach, Florida



PROJECT TEAM

CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DAVID MILLER & ASSOCIATES, P.A.

319 CLEMATIS STREET SUITE 802

WEST PALM BEACH, FLORIDA 33401

WEST PALM BEACH, FLORIDA 33407

2831 EXCHANGE COURT, SUITE A

WEST PALM BEACH, FLORIDA 33409

100 NW 1st AVENUE

LANDSCAPE ARCHITECT

521 25TH STREET

STUDIO SPROUT, INC.

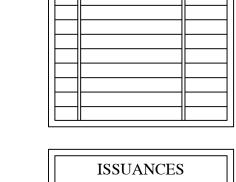
STRUCTURAL ENGINEER

THOMAS J. TWOMEY

AERIAL VIEW

OWNER

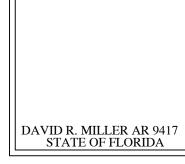
ARCHITECT



REVISIONS

	ISSUANCES
DATE	TITLE
	BID
	PERMIT
	CONSTRUCTION

PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FASCIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.



DRAWN BY SCALE AS NOTED CHECKED BY DATE DM&A No. SHEET NUMBER

SYMBOL LEGEND DETAIL TITLE PARTITION TYPE ROOM NUMBER - DETAIL NO. DOOR NUMBER/TYPE WINDOW TYPE SECTION DETAIL TITLE 3/4" CENTERLINE DIMENSIONS PLAN DETAIL TITLE

DEMOLITION NOTES

- Demolition consists of performing all demolition as shown on these drawings, and of any existing construction which in its present position will interfere with new construction. The Contractor will provide and perform any cutting or patching of existing construction as shown on the drawings, or as reasonably inferred.
- 2. All surfaces, not scheduled for demolition, which are disturbed by demolition, cutting, patching or in any other way by the Contractor shall be restored to match existing adjacent surfaces. All patches shall be imperceptible.
- 3. Existing walls which are to remain are to be protected in a manner determined by the Contractor to adequately protect the surface finishes.
- 4. The Contractor shall locate existing walls which are indicated to remain and verify that the in place location is the same as the location for any new construction. Any discrepancies between as-built and new work shall be called to the attention of the Architect in writing before proceeding with work. The Contractor shall be responsible for coordinating with the Architect to determine proper course of action.
- 5. All Electrical demolition is to be performed by State of Florida licensed Electrical Subcontractors utilizing trained personnel. All electrical devices which are removed must be properly safed off. No exposed wiring or hazards will be permitted to remain. Cap or remove wiring to junction boxes or panels. Provide As-Built information on any electrical devices or circuitry affected as a part of this demolition work.

GENERAL NOTES

- All Work shall be performed in strict accordance with the Florida Building Code, 2014, fifth edition, and all amendments as well as the 2010 Edition of the Florida Fire Prevention Code and the 2009 Edition of NFPA 1 and NFPA 101 with Florida Amendments. All work shall conform to the requirements of NFPA 241. Reference to other standard specifications or codes shall mean the latest standard or code adopted and published.
- 2. All required tests shall be performed by an approved testing laboratory at the Owner's expense Test results shall be submitted to the Architectand/or Engineer. Tests resulting in failure shall be redone (successfully) at no additional cost to the owner.
- 3. It shall be the responsibility of the Contractor to familiarize himself with all conditions of the site relative to existing work and the construction documents prior to commencing Work. Job site measurements are the full responsibility of the Contractor and/or Subcontractors.
- 4. The Contractor shall verify all dimensions in the field. Discrepancies shall be reported to the Architect prior to the commencement of the Work.
- 5. The Contractor shall coordinate the work of all trades at the time the work is performed on this structure. No additional payments shall be made for the Contractor's failure to correct conflicting field conditions. Correction of defects shall be completed without additional charge and shall include replacement or repair of any other phase of installation that may have been damaged during repair of such work.
- 6. It is not the intent of these plans to show every minor detail of construction, the Contractor is expected to furnish and install all items necessary to complete final work
- 7. Do not scale drawings to obtain dimensions. Any dimensions not indicated on drawings are to be confirmed with Architect prior to commencement of Work.
- 8. See architectural plans, elevations, details, and schedules for additional notes and information, refer to specifications for specific material requirements.
- 9. In the event of any need for special sequencing of work is required, the Contractor shall arrange Contractor shall provide a construction schedule to the Owner indicating proposed timing prior
- 11. All finishes are to meet Type A flame spread ratings.
- 12. All concealed wood is to be fire retardant treated wood product(s).
- 13. All asbestos containing materials, if encountered, are to be properly removed and/or encapsulated per all codes and under the direction of a Florida Licensed Engineer licensed for such purpose.
- 14. The Architect has no responsibility for the design of Life Safety Systems & components including building risers and sprinkler systems, alarm systems, etc. nor hazardous materials, if encountered. Such items are responsibility of a Florida Licensed Engineer licensed for such purpose.

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE ASSOCIATED SITE DEMOLITION

ENCLOSURE AND THE INSTALLATION OF A NEW GENERATOR

AND ASSOCIATED ELECTRICAL WORK. THE SCOPE OF WORK

CONSTRUCTION, STUCCO, PAINT, LIMITED PAVING, LIMITED

AND NEW CONSTRUCTION OF A CMU EMERGENCY GENERATOR

INCLUDES LIMITED DEMOLITION, NEW MASONRY AND CONCRETE

LANDSCAPING AND IRRIGATION, & ASSOCIATED ELECTRICAL WORK.

ABBREVIATIONS

ABV. Above	F.C.U. Fan Coil Unit	P.L. Property Line
AC Air Conditioning	F.C.U. Fan Coil Unit F.D. Fire Damper F. DRN. Floor Drain F.H.C. Fire House Cabinet	PLAS. Plaster
ACOUST. Acoustical	F DRN Floor Drain	PLWD. Plywood
A.C.T. Acoustical Ceiling Tile	F. DRN. Floor Drain F.H.C. Fire House Cabinet	PNT. Paint
ADMIN. Administrative	FIN. Finish	POL. Polished
A.DRN. Area Drain	FIN.FLR./ F.F.Finish Floor	POL. Polished
A.F.F. Above Finished Floor	FIXT. Fixture	P.T.D. Paper Towel Dispense
	FLR. Floor	P.V.C. Polyvinyl Chloride
		PTD. Painted
ALUM., AL.Aluminum ANOD. Anodized		R. Riser
APPROX. Approximately		
ASB. Asbestos	GYP.BD./G.B.Gypsum Board	RAD. or R.Radius
ASPH. Asphalt	H. High	R.C. Reinforced Concrete
ASST. Assistant	HDWR Hardware	R.D. Roof Drain REFL. Reflected
BATT. Battery	H.M. Hollow Metal	
BD. Board	HORIZ. Horizontal	REFRIG. Refrigerator
BLDG. Building	H.PT. High Point	RET. Retaining
BLK., BLKG.Block, Blocking	HCT Hollow Clay Tile	RM. Room
BM. Beam	HT. Height	R.O. Rough Opening
BOT. Bottom	H.V. High Voltage	R.W.D.P. Rain Water Drain Pi
BR. Brick	HT. Height H.V. High Voltage H.W.H. Hot Water Heater I.D. Interior Design	SCHED. Schedule
BRK. Breaker	I.D. Interior Design	
BRNZ. Bronze	I.DIA./I.D.Inside Diameter	SERV. Service
BTW. Between	INSUL Insulation	SH. Shower
CEM. PLAS.Cement Plaster	INT. Interior	SHT. Sheet
C.C. Center to Center	JAN. / J. Janitor	SIM. Similar
CEM. Cement	JT. Joint	SLID. Sliding
CER.T. or C.T.Ceramic Tile	KIT. Kitchen LAV. Lavatory(Washbasin)	S.N.D. Sanitary Napkin Dispos
C.G. Corner Guard C.H. Ceiling Height	LAV. Lavatory(Washbasin) L.C. Laundry or Linen Chute	S.N. DISP Sanitary
C.I. Cast Iron	L.C. Laundry or Linen Chute L.P. Low Point	Napkin Dispenser
C.J. Control Joint	L.F. Low Form LT. Light	SOAP DISPSoap Dispenser SP. Special
CL Center Line	L.V. Low Voltage	SP. Special SPECS. Specifications
CLG. Ceiling	M. Meter(s)	
CLR. Clear	MACH. Machine	SPK. Sprinkler SQ. Square
CMU Concrete Masonry Unit	MAS. Masonry	S.S. Service Sink
COL. Column	MAX. Maximum	S.STL./ST.ST. Stainless Steel
COMP. Compressor	M.C. Medicine Cabinet	STL. Steel
CONC. Concrete	M.D.F. Main Distribution Frame	STN. Stain
CONT. Continuous	MECH. Mechanical	STOR. Storage
CPT. Carpet	MECH. VENT.Mechanical	STRUCT. Structural
DET. Detail	Ventilation	SUSP. Suspended
).F. Drinking Fountain	MEMB. Membrane	T. Tread
IIA. or D.Diameter	MFR. Manufacturer	T.O.C. Top of Curb
DIR. Director	MGR. Manager	TELE. Telephone
N. Down	MIN. Minimum	TEMP. Tempered
).O. Door Opening	MISC. Miscellaneous	TH. Threshold
O.H. Door Opening Height	MM. Millimeter(s)	THK. Thick
.O.W. Door Opening Width	M.O. Masonry Opening	T.O.S. Top of Slab
DR. Door	M.T. Metal Threshold	T.P.H. Toilet Paper Holder
DWGS. Drawings	MTD. Mounted	TRANS. Transformer
EA. Each	MTL. Metal	TRAN. Transom
I.J. Expansion Joint	MULL. Mullion	TRZ. Terrazzo
IL. El'evation	N.I.C. Not In Contract	T.O.W. Top of Wall
ILEC. Electrical	NO. Number	TYP. Typical
.O.S. Edge of Slab	NOM. Nominal Dimension	UR. Urinal
Q. Equal	N.T.S. Not to Scale	V.C.T. Vinyl Composition Tile
QUIP. Equipment	O.C. On Center	VERT. Vertical
SCAL. Escalator	O.D. Outside Diameter	VEST. Vestibule
X. Exposed	OFCI Owner Furnished	V.T.R. Vent Thru Roof
XH. Exhaust	Contractor Installed	W/ With
XIST. Existing	OFF. Office	W.C. Water Closet
XP. Exposed	OPNG. Opening	WD. Wood
XT. Exterior	OPP.HD. Opposite Hand	W.O. Where Occurs
F&B Food & Beverage	PASS. Passenger	WP. Waterproof
	P.C. Precast Concrete	W.R.M. Wet Riser Main
	P.DWGS. Plumbing Drawings	
	PL. Plate	

DRAWING LIST

ARCHITECT

GENERATOR PLAN & DETAILS, STRUCTURAL REQUIREMENTS

LANDSCAPE ARCHITECT

ELECTRICAL NOTES, LEGEND & DETAILS

SITE PLAN, DEMOLITION PLAN, & NOTES

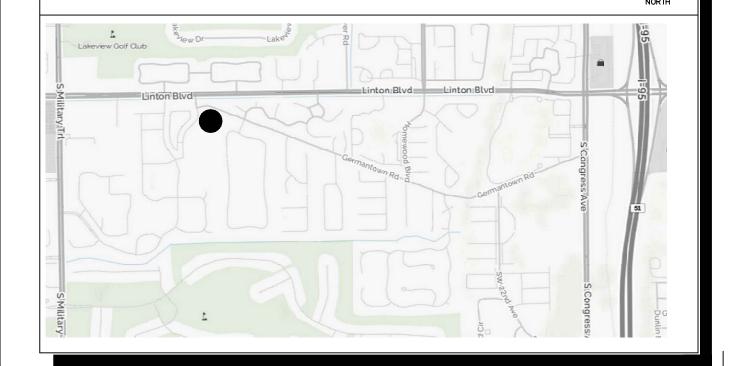
TREE REMOVAL PLAN LP-1 LANDSCAPE & IRRIGATION PLAN

BY OTHERS — ELECTRICAL ENGINEERING

E-1.1 SITE PLAN - ELECTRICAL

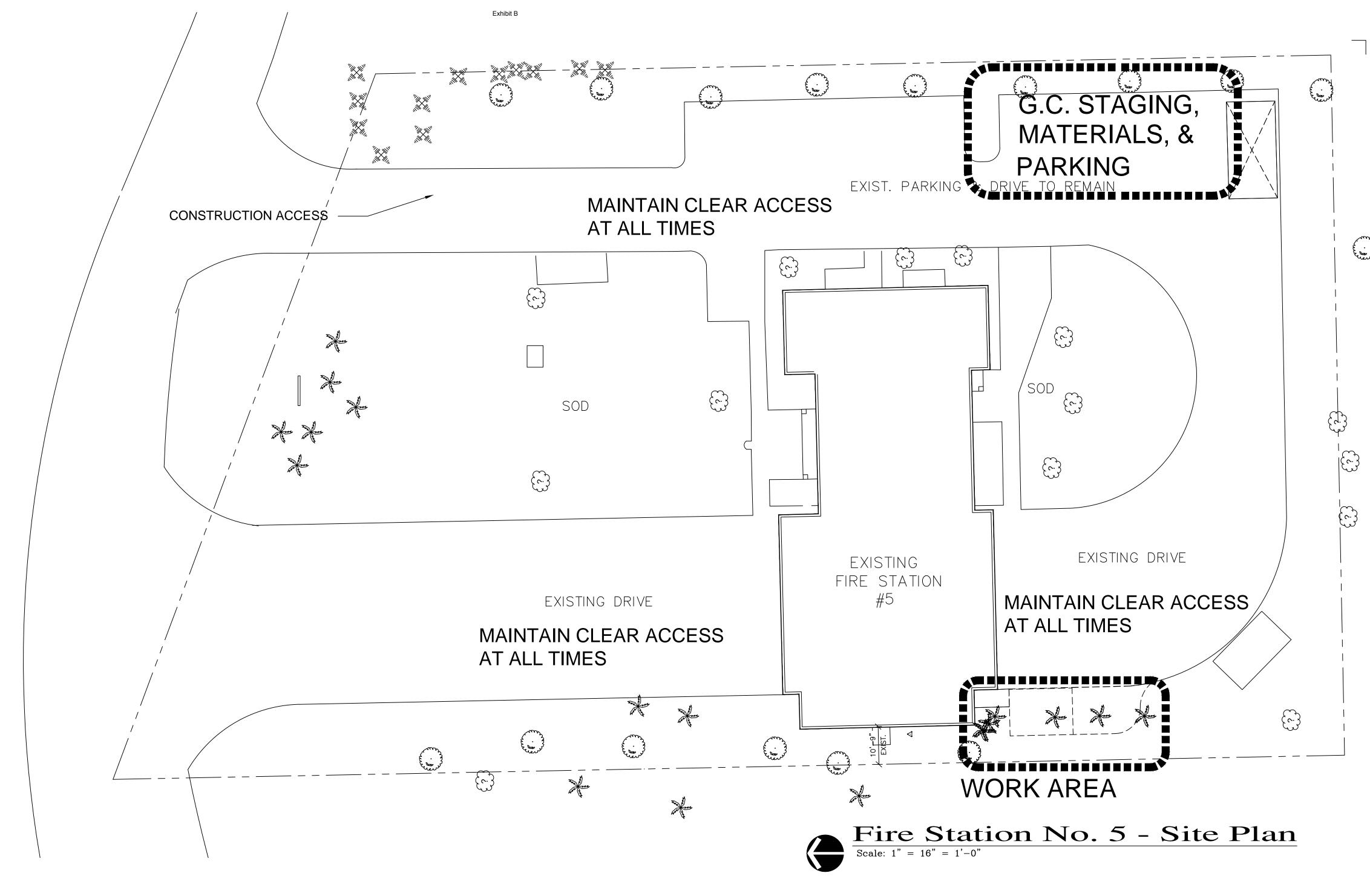
COVER SHEET

PROJECT REQUIREMENTS



AREA OF WORK





SPECIFIC PROJECT REQUIREMENTS

- 1. Fire Station No. 5 is to remain open and be in continuous operation at all times.
- All life safety components and paths of egress are to remain fully operational and accessible throughout the course of construction.
- 3. All construction activities are limited to those areas depicted in the project requirements.
- 4. The G.C. shall provide an overall project schedule indicating start and expected duration of the full project and bid alternates.
- 5. All work is expected to be performed simultaneously and continuously and will not interfere or disrupt ongoing Fire Station No. 5 operations and functions.
- 6. Prior to commencing work, the City will remove all equipment, personal effects,
- or related items.

 7. The G.C. will install temporary construction barricades separating construction areas from adjacent
- areas. These barricades shall consist of 6' Chain Link Fencing to secure the construction areas.
- 8. After hours and weekend work is allowed if approved in advance by the City.

	REVISIONS	5
NO.	TITLE	DATE

	ISSUANCES
DATE	TITLE
	BID
	PERMIT
	CONSTRUCTION

PROJECT CITY OF DELRAY BEACH
FIRE STATION No. 5 EMERGENCY GENERATOR
4000 Germantown Road Denay Beach, Frontia
SHEET TITLE
PROJECT REQUIREMENTS

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, PUBLICATION OR RE-USE BY ANY METHOD, IN WHOLE OR IN PART, WITHOUT EXPRESS WRITTEN CONSENT BY THE ARCHITECT IS STRICTLY PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ARCHITECT WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FASCIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

VID MILLER & ASSOCIATES, P.A. ASSOCIATES P.A. ASSOCIATES P.A. ASSOCIATES P.A. ASSOCIATES P.A. SEGODOS P.A. SE

DAVID R. MILLER AR 9417 STATE OF FLORIDA

DRAWN BY
CHECKED BY
DATE
5.18.2016

SHEET NUMBER
PR-1

0

DETAILED DEMOLITION PLAN

Exhibit B

PROPOSED GENERATOR ENCLOSURE

· 1

REVISIONS

	ISSUANCES
DATE	TITLE
	BID
	PERMIT
	CONSTRUCTION

FIRE STATION No. 5 EMERGENCY GENERATO 4000 Germantown Road Delray Beach, Florida	SITE PLAN DEMOLITION PLAN & NOTES
--	-----------------------------------

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE DRIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, PUBLICATION OR RE-USE BY ANY METHOD, IN WHOLE OR IN PART, WITHOUT EXPRESS WRITTEN CONSENT BY THE ARCHITECT IS STRICTLY PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ARCHITECT WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FASCIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

> DAVID MILLER 319

DAVID R. MILLER AR 9417 STATE OF FLORIDA

DRAWN BY	SCALE
CHECKED BY	AS NOTED DATE
DM&A No.	5.18.2016
SHEET NUMB	ED

for coordinating with the Architect to determine proper course of action.

5. All Electrical demolition is to be performed by State of Florida licensed Electrical

Subcontractors utilizing trained personnel. All electrical devices which are removed

must be properly safed off. No exposed wiring or hazards will be permitted to remain.

Cap or remove wiring to junction boxes or panels. Provide As-Built information on any electrical devices or circuitry affected as a part of this demolition work.

STRUCTURAL & GENERAL NOTES

1. SOIL STATEMENT:

- A. VISUAL INSPECTION OF SOIL INDICATES UNDISTURBED SAND AND LIMEROCK WITHIN ALLOWABLE BEARING CAPACITY OF 2.5 K.S.F. CONTRACTOR TO VERIFY BY PERFORMING FIELD SOIL BORING TESTS AS REQUIRED FROM AN APPROVED SOIL TESTING LABORATORY.
- B. PROVIDE PROPERLY COMPACTED NON-ORGANIC FILL TO 95% MODIFIED PROCTOR.
- C. OTHER AREA FOOTINGS SHALL BEAR ON SAID UNDISTURBED SAND AND ROCK.

2. CONCRET

- A. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS:
- ALL CONCRETE 3,000 P.S.I.
- B. TESTS: A MINIMUM OF 6 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CU. YDS. OR PORTION THEREOF. SPECIMENS SHALL BE TESTED ACCORDING TO ASTM C-39. ONE AT 3 DAYS, ONE AT 7 DAYS AND THREE AT 29 DAYS.
- C. COVER: CONCRETE DEPOSITED AGAINST THE GROUND 3". FORMED CONCRETE IN CONTACT WITH THE GROUND 2". BEAMS AND COLUMNS 1 1/2". SLABS AND WALLS 3/4"
- D. ALL CONSTRUCTION PER ACI CODE.

3. REINFORCING STEEL

- A. REINFORCING BARS MUST CONFORM WITH ASTM A-615-90, GRADE 60.
- B. WELDED WIRE FABRIC MUST CONFORM WITH ASTM A-185 AND MUST BE SUPPORTED ON
- C. FABRICATION AND DETAILING ACCORDING TO ACI 315.

SLAB BOLSTERS SPACED AT 3'-0" MAXIMUM ON CENTER.

D. ALL ACCESSORIES MUST HAVE UPTURNED LEGS AND BE PLASTIC-DIPPED AFTER.

4. MASONRY WALLS:

- A. ALL MASONRY SHOWN TO BE BEARING ON PLAN: MUST BE ERECTED PRIOR TO THE STRUCTURE ABOVE BEING ERECTED.
- B. MORTAR: MUST CONFORM WITH ASTM C-270. TYPE M (2,500 P.S.I.).
- C. REINFORCING: USE DURAWALL TRUSS REINFORCING EVERY OTHER COURSE. USE VERTICAL REINFORCING BARS AS SPECIFIED ON THE PLANS.

<u>5. WOC</u>

- A. WOOD TRUSSES MUST BE DESIGNED IN ACCORDANCE WITH SOUTH FLORIDA BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER WITH FLORIDA REGISTRATION. SPECIFY BOTH PERMANENT BRACING AND THAT WHICH IS REQUIRED DURING CONSTRUCTION
- B. OPTIONAL: ALL WOOD MEMBERS MUST HAVE A MINIMUM OF 1,200 F(B) P.S.I. EXCEPT FOR 4x12 HEADER BEAMS WHICH MUST HAVE A MINIMUM OF 1,550 P.S.I.

6. SLABS ON FILL:

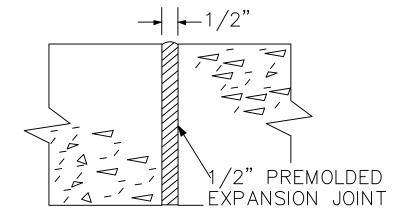
A. TO BE PLACED ON CLEAN NON-ORGANIC SOIL THOROUGHLY MOISTENED IMMEDIATELY BEFORE CONCRETE IS POURED. CONCRETE IS TO BE PLACED ON 0.006 IN VISQUEEN VAPOR BARRIER. SLABS ARE TO BE PLACED IN A "CHECKERBOARD" SEQUENCE. EACH SEGMENT OF WHICH IS NOT TO EXCEED A MAXIMUM AREA OF 1,000 SQ. FT. OR 36 LINEAR FEET IN ANY ON DIRECTION.

7. APPROVALS:

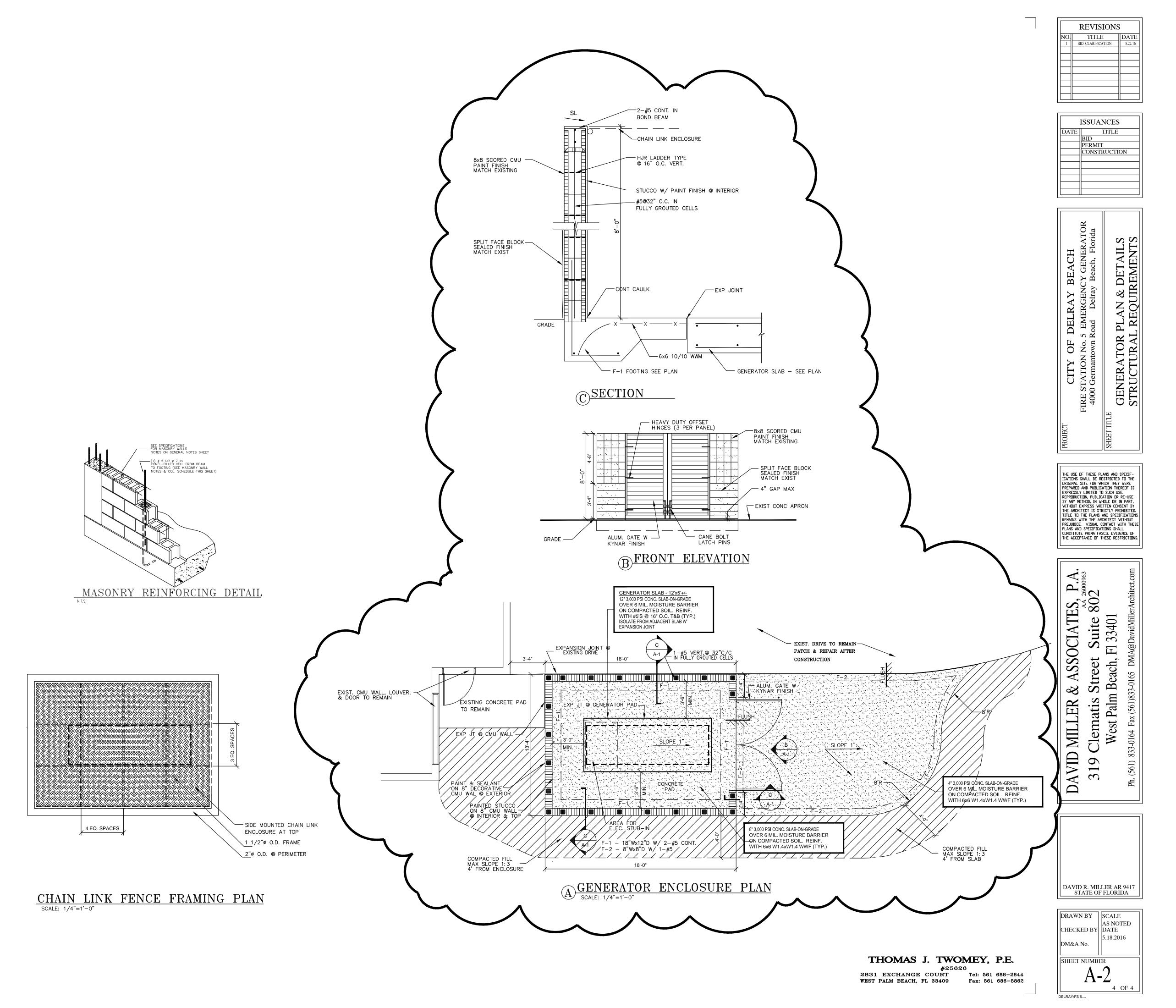
- A. SUBMIT SHOP DRAWINGS FOR ITEMS 3, 5 AND 6 ABOVE.
- B. SUBMIT LABORATORY REPORTS FOR ITEM 2 ABOVE.

8. COORDINATION:

- A. COORDINATE ALL DIMENSIONS, ELEVATIONS AND OPENINGS WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. REPORT ANY DISCREPANCIES TO OUR OFFICE.
- B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE DRAWINGS AND AT THE JOB SITE AND IMMEDIATELY REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO FABRICATION.
- C. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING, OF ANY DISCREPANCY IN THE DRAWINGS OR INCONSISTENCIES WITH ANY AND ALL APPLICABLE CODES OR REGULATIONS, PRIOR TO ANY ACTION ON HIS PART. FAILURE TO DO SO WILL MAKE HIM RESPONSIBLE AND LIABLE UNDER HIS CONTRACT.



EXPANSION JOINT DETAIL



POWER

SG100

Industrial Spark-Ignited Generator Set

° ° ° °

For over 50 years, Generac has led the industry with

Generac ensures superior quality by designing and

manufacturing most of its generator components,

including alternators, enclosures and base tanks,

control systems and communications software.

Generac's gensets utilize a wide variety of options,

configurations and arrangements, allowing us to

meet the standby power needs of practically every

Generac searched globally to ensure the most reliable

engines power our generators. We choose only engines

that have already been proven in heavy-duty industrial

Generac is committed to ensuring our customers'

GENERAC INDUSTRIAL

Rust-proof fasteners with nylon washers to

High performance sound-absorbing material

Air discharge hoods for radiator-upward

Rhino Coat[™] - Textured polyester powder coat

Stainless steel lift off door hinges

Stainless steel lockable handles

protect finish

Gasketed doors

Single point ground

on the display

Pressure Shutdown)

Temp Shutdown)

Low Fuel Pressure Alarm

Battery Voltage Warning

state conditions

15 channel data logging

0.2 msec high speed data logging

Alarm information automatically comes up

Coolant Temperature (Pre-programmed High

Coolant Level (Pre-programmed Low Level

Engine Speed (Pre-programmed Over speed)

Alarms & warnings time and date stamped

Alarms & warnings for transient and steady

Snap shots of key operation parameters

Alarms and warnings spelled out (no alarm

during alarms & warnings

Oil Pressure (Pre-programmable Low

Stamped air-intake louvers

service support continues after their generator

application under adverse conditions.

innovative design and superior manufacturing.

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Image used for illustration purposes only

BURNETAN .

| Powering Ahead

application.

EPA Certified Stationary Emergency

Standby Power Rating 100 kW 125 kVA 60 Hz Prime Power Rating³ 90 kW 113 kVA 60 Hz

*EPA Certified Prime ratings are not available in the U.S. or its Territories

Codes and Standards Generac products are designed to the following standards

UL2200, UL508, UL142, UL498

NFPA70, 99, 110, 37

NEC700, 701, 702, 708

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

ALTERNATOR SYSTEM

UL2200 GENprotect[™]

2/3 Pitch

Skewed Stator

Brushless Excitation

Amortisseur winding

Full load capacity alternator

Wrapped Exhaust Piping

Standard Factory Testing

(enclosed only)

Real/Reactive/Apparent Power

Date/Time Fault History (Event Log)

Isochronous Governor Control

Waterproof/sealed Connectors

Audible Alarms and Shutdowns

Not in Auto (Flashing Light)

E-Stop (Red Mushroom-Type)

Predictive Maintenance algorithm

NFPA110 Level I and II (Programmable)

Customizable Alarms, Warnings, and Events

Password parameter adjustment protection

Auto/Off/Manual Switch

Modbus protocol

Sealed Boards

All Phase AC Voltage

All Phase Currents

Coolant Temperature

Oil Pressure

Coolant Level

Engine Speed

Frequency

Battery Voltage

Internal Genset Vibration Isolation

1 Year Warranty (Prime rated units)

Silencer mounted in the discharge hood

Separation of circuits - high/low voltage

2 Year Limited Warranty (Standby rated Units)

Separation of circuits - multiple breakers

Sealed Bearings

GENERATOR SET

Class H insulation materia

Standard Features

Critical Exhaust Silencer

Factory Filled Oil

Stainless Steel flexible exhaust connection

Radiator duct adapter (open set only)

Primary and Secondary Fuel Shutoff

Closed Coolant Recovery System

50/50 Ethylene glycol antifreeze

Solenoid activated starter motor

Rubber-booted engine electrical connections

Digital H Control Panel - Dual 4x20 Display

Special Applications Programmable PLC

Programmable Crank Limiter

All-Phase Sensing DVR

Low Fuel Pressure Indication

kW Hours, Total & Last Run

2-Wire Start Compatible

Full System Status

Utility Monitoring

Power Output (kW)

Power Factor

RS-232/485

7-Day Programmable Exerciser

Engine Electrical System

Battery charging alternato

Battery Cables

CONTROL SYSTEM

Battery Tray

UV/Ozone resistant hoses

Factory-installed Radiator

Radiator drain extension

Flexible Fuel Line - NPT Connection

Fan Guard

NEMA ICS10, MG1, 250, ICS6, AB1



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

EMERGENCY STOP PUSHBUTTON **ENGINE INSTRUMENTS SHOWING:** ENGINE WATER TEMPERATURE LUBE OIL PRESSURE ^LUBE_OIL_IEMPERATURÊ \ ENGINE RUNNING HOURMETER BATTERY CHARGING INDICATOR ENGINE FAULT INDICATORS

120/208V, 3ø, 4W, EPA TIER 3

OVERLOAD PROTECTION CIRCUIT BREAKER

REMOTE ALARM ANNUNCIATOR SYSTEM

ENGINE MOUNTED RADIATOR SAFETY CONTROLS TO SHUT DOWN THE ENGINE FOR THE FOLLOWING:

LOW LUBRICATING OIL PRESSURE LOW WATER LEVEL HIGH/LOW WATER JACKET TEMPERATURE ENGINE OVER SPEED ENGINE OVERCRANK

EMERGENCY GENERATOR SPECIFICATIONS

DUEL FUEL, NATURAL GAS, PROPANE GAS GENERATOR, 100KW,

THE GENERATOR SHALL BE PROVIDED WITH THE FOLLOWING:

CRITICAL GRADE SILENCER WATER JACKET HEATER, 1500W MINIMUM ISOCHRONOUS GOVENEROR BATTERY CHARGER (10 AMPS), LEAD ACID BATTERIES, BATTERY RACK & CABLES AND CLAMPS

GENERATOR CONTROL PANEL WITH THE FOLLOWING: RECESSED FRONT PANEL HINGED

> RUBBER ISOLATOR A.C. VOLTMETER, AMMETER, DIAL TYPE FREQUENCY METER

THREE POSITION SELECTOR SWITCH: MANUAL, OFF/RESET & AUTO BATTERY CHARGING VOLTMETER ENGINE WATER TEMPERATURE GAUGE OIL PRESSURE GAUGE D.C. CIRCUIT BREAKER

SHUTDOWN INDICATORS FOR ALARMS INDICATED ABOVE

WEATHER ENCLOSURE HOUSING

1 YEARS MANUFACTURERS WARRANTY AND A 5 YEAR ENGINE WARRANTY

THE GENERATOR SHALL BE PROVIDED WITH AN AUTOMATIC STARTING SYSTEM TO PROVIDE MUTLIPLE CRANK/RESET CYCLES. OPERATION SHALL BE INITIATED THROUGH CLOSING OF CONTACTS IN THE AUTOMATIC TRANSFER SWITCH.

THERE SHALL BE (1) AUTOMATIC TRANSFER SWITCH THAT SHALL BE A SERVICE ENTRANCE RATED 400A/3P, 120/208V, 3ø, 4W WITH AN 400A/3P MAIN BREAKER. PROVIDE ACCESSORY TIMERS AND RELAYS FOR THE GENERATOR SEQUENCE OF OPERATION.

THE TRANSFER SWITCH IS TO BE PROVIDED WITH THE FOLLOWING OPTIONS: SWITCH POSITION AUX CONTACTS (1) N.C., (1) N.O. SELECTIVE LOAD DISCONNECT CONTACTS WITH TD WHICH OPERATE BEFORE/AFTER TRANSFER

GREEN - SWITCH IN NORMAL POSITION RED - SWITCH IN EMERGENCY POSITION WHITE - NORMAL POWER AVAILABLE AMBER - EMERGENY POWER AVAILABLE

7 DAY PLANT EXERCISER, WITH OR WITHOUT LOAD, TEST SWITCH, IN-PHASE MONITOR.

REMOTE TEST SWITCH CONTACTS, INHIBIT TRANSFER TO EMERGENCY CONTACT, REMOTE TIME DELAY BYPASS SWITCH CONTACTS, LOAD SITE AMMETER

TRANSFER SWITCH SEQUENCE OF OPERATION

COMMERCIAL POWER LOSS:

THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER. UPON COMMERCIAL POWER LOSS. THE TRANSFER SWITCH SHALL SEND A START SIGNAL TO THE GENERATOR. THE GENERATOR SHALL START. UPON CORRECT VOLTAGE & FREQUENCY. THE TRANSFER SWITCH SHALL TRANSFER ALL LOADS TO THE GENERATOR. ALL LOADS MUST BE TRANSFERED WITHIN 10 SECONDS OF POWER LOSS.

PHASE LOSS:

THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER FOR PHASE LOSS, UPON COMMERCIAL POWER SOURCE LOSS OF ANY PHASE, THE TRANSFER SWITCH SHALL SEND A START SIGNAL TO THE GENERATOR. UPON CORRECT VOLTAGE AND FREQUENCY OF THE GENERATOR SOURCE, THE TRANSFER SWITCH WILL TRANSFER ALL LOADS TO THE GENERATOR WITHIN 10 SECONDS OF PHASE LOSS.

COMMERCIAL SOURCE RETURN:

UPON RETURN OF COMMERCIAL SOURCE, THE TRANSFER SWITCH SHALL MONITOR COMMERCIAL POWER SOURCE FOR 25 MINUTES. IF AFTER 25 MINUTES, COMMERCIAL POWER IS STABLE, THE TRANSFER SWITCH SHALL RE-TRANSFER ALL BUILDING LOADS TO COMMERCIAL POWER AND SHALL START A 5 MINUTE COOL-DOWN OF THE GENERATOR. AFTER 5 MINUTES OF COOL-DOWN, THE TRANSFER SWITCH WILL STOP THE GENERATOR.

ELECTRICAL NOTES

- . ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2010 FBC, 2008 NEC, 2009 NFPA101, 2002 NFPA72, 2010 FLORIDA FIRE PREVENTION CODE AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINACES
- 2. DO NOT SCALE DRAWIGS: VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
- 3. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL"
- 4. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS. DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATABLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- 5. PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE
- 6. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HERIN.
- 7. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SOWN ON THE ELECTRICAL DRAWINGS. LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION. THE CONTRACOTR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR
- 8. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES. AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING
- 9. PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL
- 10. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE
- 11. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSIM U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.
- 12. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.

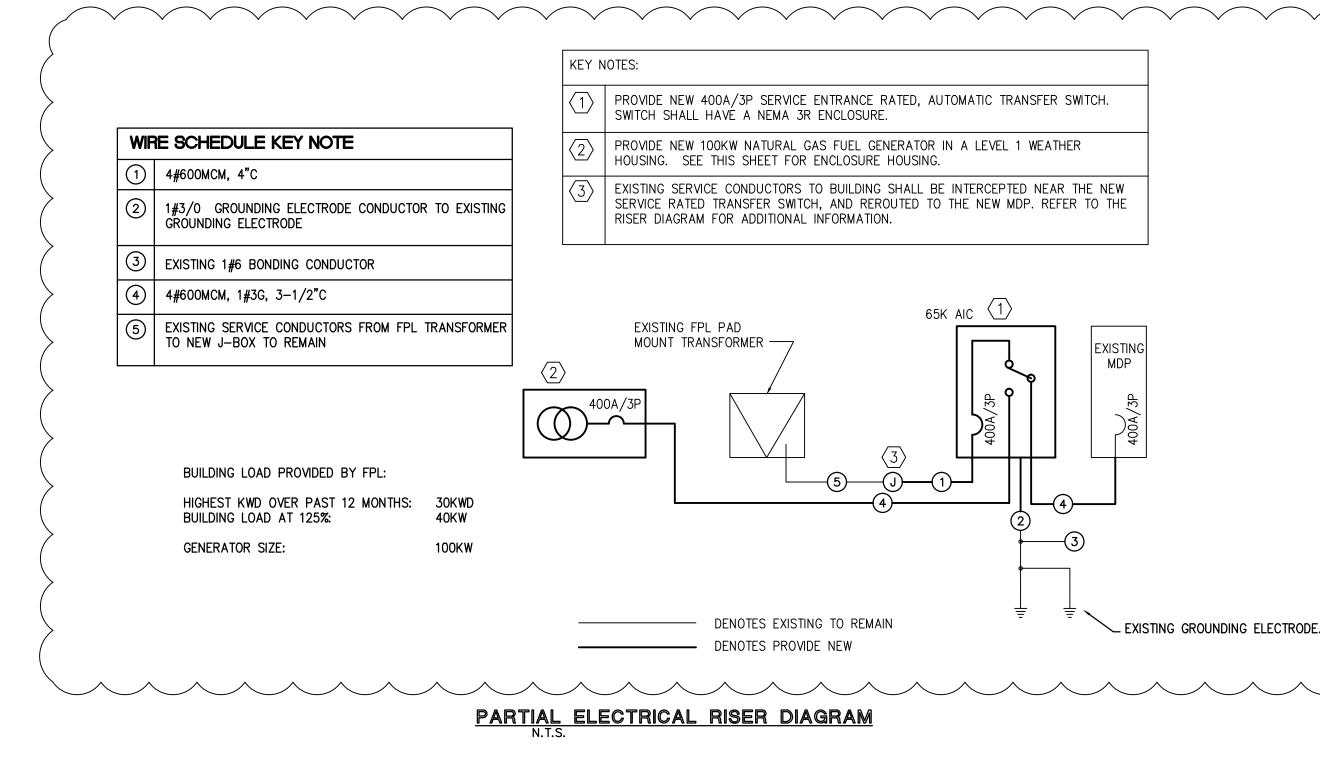
APPROVAL PRIOR TO ROUGH-IN.

INFORMATION.

- 13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- 14. PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE, PER FBC 13-413.1.ABC.2.1. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
- 15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 16. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE
- 17. THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER, PER FBC 13-413.1.ABC.2.2.
- 18. THE CONTRACTOR SHALL COORDINATE WITH FPL ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.

- 19. GENERATOR SYSTEM SHALL BE COMPLETE AND OPERABLE AND SHALL INCLUDE REQUIRED ACCESSORIES, FUEL TANKS, PIPING, MUFFLER, BLOCK HEATER, BATTERY CHARGER, ETC. THE CONTRACTOR SHALL COORDINATE THE LOCATION FOR A REMOTE CONTROL PANEL.
- WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE, FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.
- SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT
- 22. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE—RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR
- INSTALLATION METHODS. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
- 26. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING, PROVIDE NECESSARY TRENCHING, BACKFILL. EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PAD. SAW CUTTING AND PATCHING. CONCRETE/PAVING. ETC.. REQUIRED BACKFILL TRENCHED TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF
- 28. PANEL DIRECTORIES SHALL BE REMOVABLE, SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- 29. VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE STATE OF FLORIDA ENERGY CODE CHAPTER 13 (13-413.1.ABC.1.1 & 13-413.1.ABC.1.2). THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH CHAPTER 13 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.
- 30. ADDITIONAL NOTES FOR NEW PANELBOARDS:
 - A. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS. B. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0"
 - C. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED
 - INSIDE OF DOOR. D. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C.
 - RATING INDICATED ON THE PANEL SCHEDULES. E. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E.
 - TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED F. CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS
 - TWO (2), SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE.
 - G. ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.

ALTERNATE GENERATOR MANUFACTURERS ARE ACCEPTABLE. PLEASE REFER TO SPEC SECTION 263213 FOR THE GENERATOR SPEC.



ELECTRICAL DRAWING LIST

E-0.1 ELECTRICAL NOTES, LEGEND AND DETAILS

E-1.1 | FLOOR PLAN - ELECTRICAL

DRAWING NAME

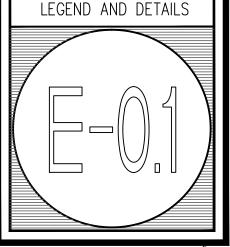
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NUMBER

PERMIT SET 12-05-14

NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A lacksquareCOMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT



ELECTRICAL NOTES,

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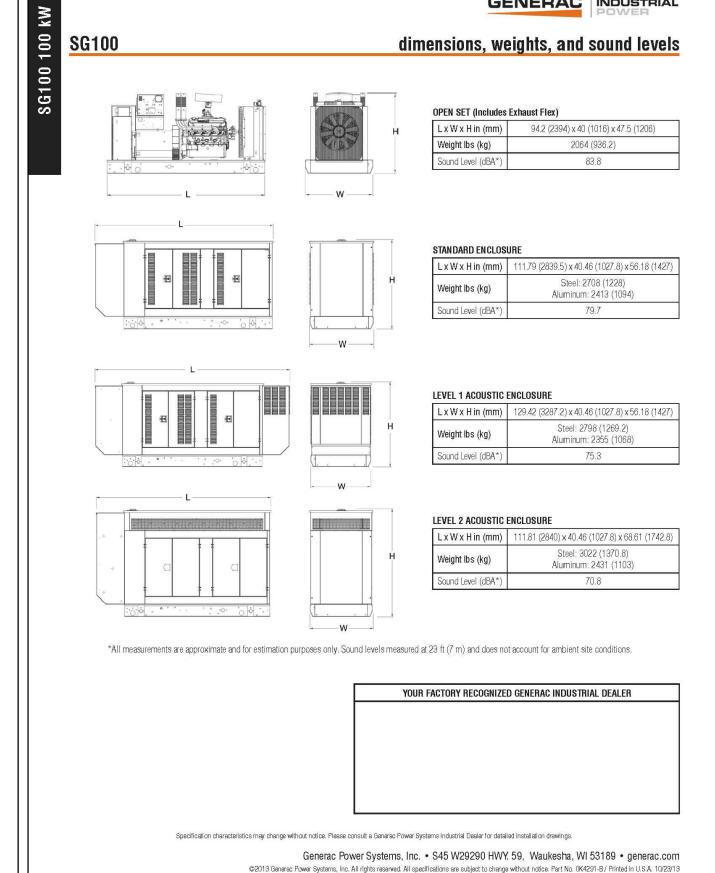
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