BID PACKAGE AND SPECIAL PROVISIONS

FOR CONSTRUCTION OF

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Project No. ZP-20-012

FOR USE IN CONNECTION WITH INYO COUNTY STANDARD SPECIFICATIONS, DATED OCTOBER 2015, GENERAL PREVAILING WAGE RATES IN EFFECT ON THE DATE THE WORK IS ACCOMPLISHED

October, 2020

Prepared By: Inyo County Public Works

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NOTICE INVITING BIDS

For The

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Independence, CA

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COUNTY OF INYO

DEPARTMENT OF PUBLIC WORKS

NOTICE INVITING BIDS

The Inyo County Public Works Department is soliciting bids for:

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Bid Packages, which include the Notice Inviting Bids, Bid Proposal Forms, Contract and Bond Forms, Special Provisions, and Plans, may only be obtained from the Inyo County (County) Public Works Department (Department) at 168 North Edwards, P. O. Drawer Q, Independence, CA 93526, telephone (760) 878-0201. A non-refundable price of $100.00 will be charged for each set of Bid Packages requested. The Bid Packages are available for inspection at the Department during regular business hours. Checks are to be made out to "Inyo County Public Works Department." The Bid Package is also available at no charge at the County of Inyo website at https://www.inyocounty.us/services/county-administration/bid-request-rfp. Bidders who obtain Bid Packages over the internet are responsible for notifying Inyo County Public Works Department that they are plan holders. Bidders who fail to notify the Department that they are plan holders may not be notified should any Addenda be issued. If the Department issues any Addenda to the Bid Package that is not acknowledged, the Bid Proposal may be rejected. This project is subject to the State of California Department of Industrial Relations (DIR) prevailing wage labor rates.

Bids must be submitted in a sealed envelope clearly marked with the bidder's name and address, the word "BID", and the Project Title:

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

To be considered, **bids must be received by the Inyo County Clerk of the Board of Supervisors, 224 North Edwards Street (mailing address: P.O. Box N), Independence, California 93526 at or before 3:30 P.M. on December 2nd, 2020** at which time they will be publicly opened and read aloud. No oral, telegraphic, telephonic, or fax proposals or modifications will be accepted.

General Work Description: The project is a design-build scope consists of the installation of five generators and transfer switches at five locations in Inyo County, California.

A job walk will be held on **November 10th, 2020 at 10:00 a.m.** starting at the Tri-County Fairgrounds, Bishop, CA. ***Bidders will be responsible for inclusion in their bids any costs that would be identifiable during the job walk, whether they choose to attend or not*.**

All project work is more particularly described in the plans and special provisions. All of the work shall be in accordance with all applicable Federal, State, and local laws, codes, and regulations.

For technical questions related to project work, site conditions, or to schedule a site visit, please contact Greg Waters of the Inyo County Public Works Department at gwaters@inyocounty.us

Bids shall conform to and be responsive to the Contract Documents. Bids are required for the entire work described in the Contract Documents.

Each Bid must be submitted on the Bid Proposal Forms furnished as a part of the Bid Package. Each Bid must be accompanied by a Proposal Guarantee in the amount and form described in the Bid Package, in an amount not less than 10% of the amount of the bid, made payable to the order of the County of Inyo. The check or bond shall be given as security that the bidder will enter into the Contract with the County and furnish the required Faithful Performance Bond, Labor and Materials Payment Bond, Certificates and/or original endorsements of insurance, or other required documents. The check or bond may be retained by the County for sixty (60) days or until the Contract is fully executed by the successful bidder and the County, whichever first occurs.

The successful bidder shall be required to furnish a Faithful Performance Bond and a Labor and Materials Payment Bond on the forms provided in the Bid Package and in the amount of 100% of the Contract amount.

The successful bidder must be licensed as required by law, and consistent with the Contract Documents, at the time the contract is awarded, which license shall be a current California Class B - General Building Contractor License (with a listed subcontractor who holds a California C-10 Commercial Electrical Contractors License with significant experience in the installation of generators and automatic transfer switches) or a California C10 - Commercial Electrical Contractors License with significant experience in the installation of generators and automatic transfer switches that will be required for complete performance of all of the work in accordance with the Contract Documents, and if applicable, a joint venture license as defined in the **Business and Professions Code, Section 7029**. Failure of the bidder to obtain proper and adequate licensing for an award of a contract shall constitute failure to execute the contract and shall result in the forfeiture of the security of the bidder.

In addition to the requirements set forth in this Notice Inviting Bids, all bids shall be subject to the requirements set forth in the Special Provisions, Standard Specifications of the Inyo County Public Works Department, dated October, 2015, Contract Documents and other applicable law.

The Contract is subject to the State Contract nondiscrimination and compliance requirements pursuant to **Government Code, Section 12990**, and other applicable law.

The Contract is also subject to and incorporates by reference the provisions of **Public Contract Code, Section 22300,** pursuant to which, the Contractor is permitted to substitute securities for earned retention or have them placed in escrow at the Contractor's expense, as also set forth in Section 1150.15 of the Standard Specifications.

Pursuant to **Section 1725.5 of the Labor Code**, the bidder is required to certify that they, and all subcontractors listed on the submitted Bid Form documents, are registered with the California Department of Industrial Relations.

Pursuant to **Section 1773 of the Labor Code**, the general prevailing wage rates in Inyo County have been determined by the Director of the State Department of Industrial Relations. These wage rates appear in the Department of Transportation publication entitled "General Prevailing Wage Rates," in effect at the time the project is advertised. Future effective wage rates, which have been predetermined and are on file with the State Department of Industrial Relations are referenced, but not printed, in said publication. Such rates of wages are on file with the State Department of Industrial Relations and the Public Works Department of the County of Inyo and are available to any interested party upon request.

Inyo County reserves the right at any stage of these proceedings to reject any or all Bids or to waive any immaterial defect in any Bid if it is deemed to be in the best interest of the County.

Each bidder must supply all the information required by the Contract Documents, Special Provisions and Standard Specifications.

County of Inyo
Department of Public Works

Michael Errante, P.E. Digitally signed by Michael Errante, P.E. Date: 2020.10.22 13:00:06 -07'00'

Michael Errante
Director

Dated: October 23rd, 2020

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BID PROPOSAL FORMS

For The

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Inyo County, CA

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BID PROPOSAL FORM

TO: COUNTY OF INYO
Attn.: Inyo County Clerk of Board of Supervisors
224 North Edwards Street, P.O. Box N
Independence, California 93526
(Herein called the "County")

FROM: _____

_____

_____

(Herein called "Bidder")

FOR: **ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT**
(Herein called "Project")

In submitting this Bid, Bidder understands and agrees that:

1. BID DEADLINE. Bids must be received no later than 3:30 P.M. on December 2nd, 2020 by the **Inyo County Assistant Board Clerk, 224 North Edwards Street (mailing address: P.O. Box N), Independence, CA 93526**, at which time they will be publicly opened and read aloud. No oral, electronic, telephonic or fax proposals or modifications will be accepted.

2. BID AMOUNT TOTAL. The total amount of this Bid for provision of the services and/or materials for completion of the Project in accordance with the Contract Documents is set forth herein as:

3. BID ADDITIVES. The County reserves the right to award the base bid and any combination, including neither, of the bid additives.

BASE PROJECT BID FORM – UNIT PRICE BID:

ABBREVIATIONS:
LS = LUMP SUM SF = SQUARE FEET LF = LINEAR FEET

Item No.	Description	Quantity	Unit	Unit Price	Total Price
1	Mobilization and Demobilization	1	LS	$	$
2	Tri-County Fairgrounds - Complete	1	LS	$	$
3	Big Pine Town Hall - Complete	1	LS	$	$
4	Independence Courthouse - Complete	1	LS	$	$
5	Annex Building - Complete	1	LS	$	$
5	Statham Hall - Complete	1	LS	$	$
5	Start-Up, Commissioning, and Training	1	LS	$	$
		TOTAL BASE BID AMOUNT:			$

PROJECT BID AMOUNT - UNIT PRICE BID:

BID TOTAL (IN NUMBERS): $ _____

BID TOTAL (IN WORDS): _____

_____

No provision in this section is intended or shall be construed to alter the terms and conditions specified in the Contract Documents for payment of any amounts in the event the Project contract is awarded to Bidder pursuant to this Bid.

3. INCLUSION OF ALL COSTS. This Bid includes all costs for all labor, materials, tools, taxes, insurance, transportation, and other related supplies and services to perform all services and provide all materials as required by, and in accordance with, the Contract Documents for the Project.

4. CONTRACT DOCUMENTS. The Contract Documents shall constitute the Contract between the parties, which will come into full force and effect upon acceptance, approval, and execution by the Inyo County Board of Supervisors. The Contract Documents are complementary and are incorporated herein by reference and made a part hereof with like force and effect as if all of said documents were set forth in full herein. The Contract Documents include all documents defined as "Contract Documents" in the Standard Specifications of the Inyo County Public Works Department, dated October, 2015.

5. ACCEPTANCE. County reserves the right to reject any and all Bids, or part of any Bid, to postpone the scheduled Bid deadline date(s), to make an award in its own best interest, and to waive any irregularities or technicalities that do not significantly affect or alter the substance of an otherwise responsible Bid and that would not affect a Bidder's ability to perform the work adequately as specified. However, this Bid shall remain open and shall not be withdrawn for a period of sixty (60) calendar days after the date designated in the Notice Inviting Bids for publicly opening this Bid. If Bidder receives written notice of the award of the Project Contract to Bidder on or before the sixtieth day, Bidder shall execute the Contract and deliver to County the executed Contract and all of the bonds, certificates and/or endorsements of insurance coverage, and other required documents no later than fifteen (15) calendar days after the date on which Bidder receives such notice.

This solicitation in no way obligates County to award a Bid Contract described herein, nor will County assume any liability for the costs incurred in the preparation and transmittal of Bids in response to this solicitation. County reserves the right to not accept any Bid, to reject any or all Bids, to reject any part of any Bid proposal, to negotiate and modify any Bid, and to waive any defects or irregularities in any Bid at County's sole discretion. Furthermore, County shall have the sole discretion to award a Bid Contract as it may deem appropriate to best serve the interests of County. In this regard, County may consider demonstrated quality of work, responsiveness, comparable experience, professional qualifications, references, and proposed fees. Awards will not be based on cost alone. County does not guarantee a minimum or maximum dollar value for any Contract(s) resulting from this solicitation.

If the Contract Documents require or permit this Bid to include two or more Alternates, County reserves the right to award the Contract for that Alternate which County, in its sole discretion, determines at the time of award to be in County's best interest.

6. TIME OF COMPLETION. The Bidder further specifically agrees to complete all the work no later than the Time for Completion specified in the Contract Special Provisions.

7. ADDENDA. The Bidder acknowledges receipt of the following Addenda and has provided for all Addenda changes in this Bid.

_____

_____

(Fill in Addendum numbers and dates Addenda have been received.
If none have been received, enter "NONE".)

WARNING: IF AN ADDENDUM OR ADDENDA HAVE BEEN ISSUED BY THE COUNTY AND NOT NOTED ABOVE AS BEING RECEIVED BY THE BIDDER, THIS PROPOSAL MAY BE REJECTED.

8. BIDDER'S BUSINESS INFORMATION. Bidder provides the following information concerning its business:

Bidder's Name: _____

Address: _____

_____ Zip Code _____

(The above address will be used to send notices or requests for additional information.)

Telephone: ( ) _____

Federal Identification No.: _____

Contractor's License No.: _____ State: _____

Classification: _____ Expiration Date: _____

Type of Business (check one):

Individual ( ), Partnership ( ), Joint Venture ( )

Corporation ( ), Other (Specify) : _____ ( )

Owners, Officers, Partners, or Other Authorized Representatives:

IMPORTANT NOTICE: If bidder or other interested person is a corporation, state legal name of corporation above and list below, names of the president, secretary, treasurer, and chief executive officer/manager thereof; if a partnership, joint venture, or other business entity, state true name of firm above and list below, names of all partners, joint venturers, or for other entities, parties having authority to act on behalf of the entity, such as officers, owners, directors; if bidder or other interested person is an individual, state first, middle, and last names in full above and write "N/A" below.

_____

_____

_____

_____

9. PROPOSAL GUARANTEE. As security for the Bid, this Bid includes one of the following proposal guarantee instruments (the "Proposal Guarantee"), in the amount required by this section, as checked:

(a) ____ Bid Bond from a corporate surety admitted to issue such bonds in the State of California; or

(b) ____ Cashier's Check or Certified Check, made payable to the County of Inyo, attached to the form entitled Cashier's or Certified Check; or

(c) ____ Cash, in legal tender of the United States of America, enclosed in a separate envelope marked " Cash Proposal Guarantee."

The Proposal Guarantee is in the amount of Ten Percent (10%) of the total amount of the Bid. If the Contract Documents require or permit this Bid to include two or more Alternates, the amount of the Proposal Guarantee must not be less than Ten Percent (10%) of the amount of the bid total submitted for the alternate having the highest total bid amount. Only one form of Proposal Guarantee may be submitted with each Bid.

Bidder hereby agrees that County shall be entitled to payment by forfeiture of the Proposal Guarantee if County awards the Project Contract to Bidder, but Bidder fails or refuses to execute the Contract and/or furnish all of the bonds, certificates and/or endorsements of insurance coverage, and other required documents no later than fifteen (15) calendar days after the date on which Bidder receives notice of the award from County.

10. BID PROTEST. In the event a dispute arises concerning the bid process prior to the award of the contract, the party wishing resolution of the dispute shall submit an appeal request in writing to the County Director of Purchasing. Bidder may appeal the recommended award or denial of award, provided the following stipulations are met:

1. Only a bidder who has actually submitted a Bid Proposal is eligible to submit an appeal request/bid protest against another bidder. Subcontractors are not eligible to submit bid protests. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.

2. Appeal must be in writing. The appeal must contain a complete statement of the basis for the protest and all supporting documentation. Materials submitted after the Bid Protest Deadline will not be considered. The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based. The protest must include the name, address and telephone number of the person representing the protesting bidder if different from the protesting bidder.

3. A copy of the protest and all supporting documents must also be transmitted by fax or by e-mail, by or before the Bid Protest Deadline, to the protested bidder and any other bidder who has a reasonable prospect of receiving an award depending upon the outcome of the protest.

4. Must be submitted within ten (10) calendar days of the date of the recommended award or denial of award letters.

5. An appeal of a denial of award can only be brought on the following grounds:

    a. Failure to follow the selection procedures and adhere to requirements specified in the Bid Package or any addenda or amendments.

b. There has been a violation of conflict of interest as provided by California Government Code Section 87100 et seq.

c. A violation of State or Federal law.

6. Appeals will not be accepted for any other reasons than those stated above. All appeals must be sent to:

Clint Quilter, Director
County of Inyo
Purchasing Department
224 N. Edwards St.
Independence, CA 93526

County's Purchasing Director shall make a decision concerning the appeal, and notify the Proposer making the appeal, within a reasonable timeframe prior to the tentatively scheduled date for awarding the contract. The decision of County's Purchasing Director shall be deemed final.

11. ADDITIONAL REQUIRED DOCUMENTS. Bidder agrees that, in addition to the Proposal Guarantee, Bidder is required to submit, as a part of this Bid, the following forms properly completed, and signed as required, all of which accompany this Bid Proposal Form and are incorporated herein by this reference:

(1) Designation of Subcontractors (Public Contract Code section 4100 et seq.)
(2) Certification Regarding Equal Employment Opportunity (Government Code section 12900 et seq., sections 11135-11139.5)
(3) Contractor's Labor Code Certification (Labor Code section 3700)
(4) Contractor and Subcontractor Dept. of Industrial Relations (DIR) Registration (Labor Code section 1725.5)
(5) Non-Collusion Affidavit (Public Contract Code Section 7106)
(6) Public Contract Code Section 10162 Questionnaire
(7) Public Contract Code Statement (Section 10232)
(8) Small Business Enterprise Commitment (Construction Contracts)
(9) Small Business Enterprise Final Report of Utilization of Small Business Enterprise

12. DEFINITIONS. The definition and meaning of the words used in this Bid Proposal Form are the same as set forth in **Section 1070, "Abbreviations, Symbols and Definitions,"** of the Standard Specifications of the Inyo County Public Works Department, dated October, 2015.

THE UNDERSIGNED HEREBY DECLARES, UNDER PENALTY OF PERJURY ACCORDING TO THE LAWS OF THE STATE OF CALIFORNIA, THAT THE STATEMENTS, DESIGNATIONS, CERTIFICATIONS, AND REPRESENTATIONS MADE IN THIS BID PROPOSAL, INCLUDING ALL ATTACHMENTS, ARE TRUE AND CORRECT AND HE OR SHE IS THE INDIVIDUAL, MANAGING PARTNER, CORPORATE OFFICER, OR OTHER REPRESENTATIVE, DULY AUTHORIZED BY LAW TO MAKE THIS BID ON BEHALF OF BIDDER, AND BY SIGNING BELOW, MAKES THIS BID ON BEHALF OF BIDDER ACCORDING TO ALL OF THE TERMS AND CONDITIONS SET FORTH OR INCORPORATED BY REFERENCE HEREIN.

_____ _____

(Signature of Authorized Person) (Date)

_____ _____

(Printed Name) (Printed Title)

INYO COUNTY PUBLIC WORKS DEPARTMENT

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

BID BOND
(BID PROPOSAL GUARANTEE)

(Not required if a certified or cashier's check or a cash deposit accompanies the bid as a proposal guarantee)

KNOW ALL MEN BY THESE PRESENTS: That we, _____

_____ as Principal, and
(Name of Bidder)

_____
(Name of Corporate Surety)

as Corporate Surety admitted to issue such bonds in the State of California, are held and firmly bound unto the County of Inyo, State of California, in the sum of _____ _____ dollars ($_____) for the payment whereof we hereby bind ourselves, our successors, heirs, executors, and administrators, jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that whereas the above bounded Principal is about to submit to the Board of Supervisors of the County of Inyo a bid for the construction of the **ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT**, in compliance with the Contract therefor:

Now, if the bid of the Principal shall be accepted and the Contract awarded to the Principal by said Board of Supervisors, and if the Principal shall fail or neglect to enter into the Contract therefor in accordance with the terms of the Principal's bid and the terms set forth in the Bid Package, or to furnish the required Faithful Performance and Labor and Materials Payment Bonds, Certificates of insurance, and other required documents, to the satisfaction of the Board of Supervisors of said County, no later than fifteen (15) calendar days after the Principal has received notice from the County that the Contract has been awarded to the Principal, then the sum guaranteed by this Bond is forfeited to the County of Inyo.

It is expressly agreed and understood that any errors, clerical, mathematical, or otherwise, in the bid shall not be or constitute a defense to a forfeiture of this Bond.

WITNESS our hands and seals this _____ day of _____ , 20 ____ A.D.

_____
Principal

(SEAL) By: _____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

_____
Surety

(SEAL) By: _____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

NOTE:

THE SIGNATURES OF THE PRINCIPAL (BIDDER) AND THE SURETY MUST EACH BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC (OR OTHER OFFICER AUTHORIZED UNDER CALIFORNIA LAW) AND THE ACKNOWLEDGMENTS MUST BE ATTACHED TO THIS BOND. The Bid Bond must be executed on this form by a corporate surety admitted to issue such bonds in the State of California. No substitutions will be accepted. If an attorney-in-fact signs for the surety, an acknowledged statement from the surety appointing and empowering the attorney-in-fact to execute such bonds in such amounts on behalf of the surety, must accompany the Bid Bond.

ADDRESS OF COUNTY FOR NOTICES TO BE SENT:

County of Inyo (Attn.: Public Works Director)
224 North Edwards Street, P.O. Box N
Independence, California 93526

CASHIER'S OR CERTIFIED CHECK

(BID PROPOSAL GUARANTEE)

(Not required if Bid Bond accompanies the bid as a proposal guarantee)

A cashier's or certified check in the amount required as a proposal guarantee for the Bid and made payable to the County of Inyo is attached below:

[ ]

ATTACH CHECK HERE

[ ]

Bidder (print name) : _____

DESIGNATION OF SUBCONTRACTORS

In compliance with the provisions of the **Subletting and Subcontracting Fair Practices Act (Section 4100 et. seq**. of the **Public Contract Code** of the **State of California**), the undersigned bidder has set forth below the full name, and the location of the place of business of each Subcontractor who will perform work or labor or render service to the Prime Contractor in or about the construction of the work or improvement, or a Subcontractor licensed by the State of California who, under subcontract to the Prime Contractor, specifically fabricates and installs a portion of the work or improvement according to detailed drawings contained in the Plans and Specifications to which the attached bid is responsive, and the portion of the work which will be done by each Subcontractor for each subcontract in excess of one-half of one percent of the Prime Contractor's total bid, or $10,000.00, whichever is greater.

The Bidder understands that if he fails to specify a Subcontractor for any portion of the work to be performed under the Contract in excess of one-half of one percent of his bid, or $10,000.00, whichever is greater, he shall be deemed to have agreed to perform such portion himself, and that he shall not be permitted to sublet or subcontract that portion of the work except in cases of public emergency or necessity, and then only after a finding, produced to writing as a public record of the Awarding Authority, setting forth the facts constituting the emergency or necessity. If no Subcontractors are to be employed on the project, enter the word "none".

ITEM NO.	DESCRIPTION OF WORK	% OF TOTAL CONTRACT	SUBCONTRACTOR'S LICENSE TYPE, NUMBER, EXPIRATION DATE	NAME, ADDRESS, PHONE NUMBER

_____ _____

Signature of Authorized Person) (Title)

_____ _____

(Printed Name) (Date)

CERTIFICATION REGARDING EQUAL EMPLOYMENT OPPORTUNITY

(Government Code Section 12900 et seq., Sections 11135-11139.7)

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

During the performance of this Contract, the Contractor and its subcontractors shall not unlawfully deny the Contract's benefits to any person, nor shall any person be unlawfully subjected to discrimination under the contract and its performance on the basis of religion, color, ethnic group identification, sex, age, or disability. In addition, the Contractor and its subcontractors shall not discriminate unlawfully against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age, or sex. The Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free from such discrimination.

The Contractor shall comply with the provisions of the Fair Employment and Housing Act **(Government Code, Section 12900 et seq**.), the regulations promulgated thereunder **(California Code of Regulations, Title 2, Section 7285.0 et seq.), and the Provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code, Sections 11135-11139.7)**.

Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

_____

(Name and Title of Signer)

_____

Signature **Date**

Company Name _____

Business Address _____

_____

CONTRACTOR'S LABOR CODE CERTIFICATION

(Labor Code Section 3700 et seq.)

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

I am aware of the provisions of Section 3700 and following of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

_____

(Name and Title of Signer)

_____ _____

Signature **Date**

Company Name _____

Business Address _____

CONTRACTOR AND SUBCONTRACTOR REGISTRATION

With
CA Department of Industrial Relations (DIR)
(CA LABOR CODE SECTION 1725.5)

Bidder hereby certifies that they, and all subcontractors listed on the submitted Bid Form documents, are Registered with the CA Department of Industrial Relations pursuant to requirements of CA Labor Code Section 1725.5 and will comply with all requirements as noted in the aforementioned CA Labor Code Section.

_____ _____
Signed Name Date

_____
Printed Name

_____
CA DIR Registration No.

NON-COLLUSION AFFIDAVIT

(Public Contract Code Section 7106)
(Code of Civil Procedure Section 2015.5)

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

The undersigned declares:

I am the _____ of_____, the party making the foregoing bid. The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose. Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on

_____, at _____,_____
(Date) (City) (State)

_____
(Name and Title of Signer)

_____ _____
Signature **Date**

Company Name _____

Business Address _____

_____

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

In accordance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has a proprietary interest in the Bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation:

Yes _____ No _____

If the answer is yes, explain the circumstances in the following space.

By bidder's signature on the Bid Proposal Form, Bidder certifies, under penalty of perjury under the laws of the State of California, that the foregoing statements in accordance with Public Contract Code Section 10162 are true and correct.

PUBLIC CONTRACT CODE STATEMENT (SECTION 10232)

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

In accordance with **Public Contract Code Section 10232**, the Contractor hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

By Bidder's signature on the Bid Proposal Form, Bidder certifies, under penalty of perjury under the laws of the State of California, that the foregoing statements in accordance with **Public Contract Code Section 10232** are true and correct.

_____

(Name and Title of Signer)

_____ _____

Signature **Date**

Company Name _____

Business Address _____

_____

LOCAL BUSINESS PREFERENCES

INYO COUNTY ORDINANCE No. 1156

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

ORDINANCE NO. 1156

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF THE COUNTY OF INYO, STATE OF CALIFORNIA, ADDING CHAPTER 6.06 TO THE INYO COUNTY CODE TO PROVIDE CONTRACTING PREFERENCES FOR LOCAL AND SMALL BUSINESSES

The Board of Supervisors of the County of Inyo ordains as follows:

SECTION 1. PURPOSE AND AUTHORITY

The purpose of this ordinance is to contribute to the economic and social well-being of all the citizens of the County by providing a contracting preference for local and small businesses. As a market participant, and pursuant to Public Contract Code § 2002, the County may award a purchasing preference to certain entities to vindicate the governmental purpose of encouraging County and regional economic development.

SECTION 2. ADDITION OF CHAPTER 6.06 TO INYO COUNTY CODE.

Chapter 6.06 is added to the Inyo County Code to read as follows:

Chapter 6.06

CONTRACTING PREFERENCES

Sections:

6.06.010 Findings

Businesses located in Inyo County contribute to the economic and social well-being of all the citizens of the County. Such businesses provide convenient services within the County and provide employment for County citizens. Further, the payroll paid by and income earned by local businesses tend to be largely expended within the County, which enhances the business environment in the County and the well-being of its citizens. It is in the public interest to encourage a vibrant business environment in the County. Providing modest purchasing preferences for County businesses furthers the goal of building a healthy economy in the County. Further, providing contracting preferences for all small businesses is allowed by State law, expands the types of contracts for which preferences may be given, and benefits local small businesses, also furthering the goal of building and maintaining a healthy local economy.

6.06.020 Definitions.

A. A **Small Business** is a business which is certified by the State of California or the Small Business Administration as a small business.

B. A **Local Business** is a business which:

1. Has it headquarters, distribution point or locally-owned franchise located in or having a street address within the County for at least six months immediately prior to the issuance of the request for competitive bids by the County; and
2. Holds any required business license by a jurisdiction located in Inyo County; and
3. Employs at least one full-time or two part-time employees whose primary residence is located within Inyo County, or if the business has no employees, shall be a least fifty percent owned by one or more persons whose primary residence is located within Inyo County.

1

4. Meets the conditions of one through three of this subsection, but within Mono or Inyo and Mono Counties, if no Inyo County local business submits a bid that is within eight percent of the lowest bid submitted.

C. A **Responsive Bid** is a bid which responds to the requirements of the request for bids and is submitted by a responsible bidder.

6.06.030 General Provisions.

A. The preferences provided in this chapter are intended to extend to the limit of the jurisdiction of Inyo County under California law. Such preferences do not apply where prohibited by Federal or State law. Such preferences do not apply where funding agencies prohibit such preferences as a condition of providing funding for the anticipated project. Where this Chapter provides preferences for multiple classes of entities, and one or more of those classes of entities are disallowed contracting preference by Federal or State law or by the funding agency, those disallowed entities will not be provided preferences, but the remaining classes of entities shall receive preferences.

B. Requests for bids or proposals issued by the County shall specify the applicable contracting preferences available pursuant to this Chapter.

6.06.040 Local Business and Small Business Preference.

Except as excluded by Section 6.06.030(A), for all contracts awarded by Inyo County, if the lowest responsive bid is submitted by a local business or a small business, that business shall be awarded the contract. If the lowest responsive bid is not submitted by a local business or a small business, the lowest responsive bid submitted by a local business that is within eight percent of the lowest responsive bid or by a small business that is within five percent of the lowest responsive bid shall be considered the low bid and that business shall be awarded the contract. To be eligible, a local business or a small business shall provide certification with its bid that it is such business as herein defined.

6.06.050 Small Business Subcontracting Preference.

For public works and road construction contracts awarded by Inyo County, where no entity qualifying under this Chapter for a contracting preference submits a responsive bid that is the lowest or within five percent of the lowest responsive bid, there shall be a preference given to bids in which at least ten percent of the monetary value of the work to be performed is subcontracted to a small business or businesses. If such bid is the lowest responsive bid, that contractor shall be awarded the contract. If such bid is not the lowest responsive bid, any such bid that is within five percent of the lowest responsive bid shall be considered the low bid, and that contractor shall be awarded the contract.

6.06.060 Limit On Contracting Preferences.

Contracting preferences under this Chapter shall not exceed $10,000.00 for any one solicitation and award determination.

SECTION 3. SEVERABILITY

If any section, subsection, sentence, clause or phrase of this ordinance is for any reason held to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portions of this ordinance. The Board of Supervisors hereby declares that it would have passed this ordinance and every section, subsection, sentence, clause or phrase not declared invalid or unconstitutional, without regard to whether any portion of this ordinance would be subsequently declared unconstitutional or invalid.

SECTION 4. EFFECTIVE DATE

This Ordinance shall take effect and be in full force and effect thirty (30) days after its adoption. Before the expiration of fifteen (15) days from the adoption hereof, this Ordinance shall be published as required by Government Code Section 25124. The Clerk of the Board is hereby instructed and ordered to so publish this Ordinance together with the names of the Board members voting for and against the same.

PASSED AND ADOPTED this 25th day of May, 2010, by the following vote:

AYES: Supervisors Arcularius, Cash, Brown, Fortney and Cervantes
NOES: -0-
ABSTAIN: -0-
ABSENT: -0-

Richard Cervantes
Richard Cervantes, Chairperson
Inyo County Board of Supervisors

ATTEST: Kevin Carunchio
Clerk of the Board

By: Patricia Gunsolley
Patricia Gunsolley, Assistant

s/Ordinance/ContractingPrefSmBusiness 4/29/10

SMALL BUSINESS ENTERPRISE COMMITMENTS

(Construction Contracts)

NOTE: PLEASE REFER TO INSTRUCTIONS ON THE REVERSE SIDE/NEXT PAGE OF THIS FORM

Department: **Inyo County Public Works Department** LOCATION: **Independence, CA**

PROJECT DESCRIPTION: ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

TOTAL CONTRACT AMOUNT: $_____

BID OPENING DATE: December 2nd, 2020

BIDDER'S COMPANY NAME:_____

BID ITEM NO.	ITEM OF WORK AND DESCRIPTION OR SERVICES TO BE SUBCONTRACTED OR MATERIALS TO BE PROVIDED	LICENSE INFO./CERT. No. of LOCAL AND SMALL BUSINESS ENTERPRISE AND EXPIRATION DATE	NAME AND CONTACT INFORMATION FOR LOCAL AND SMALL BUSINESS ENTERPRISE (Must be certified on the date bids are opened)	DOLLAR AMOUNT LOCAL AND SMALL BUSINESS ENTERPRISE

For Inyo County to Complete:

Project Number: ZP-20-012

Financing Type: _____

Contract Award Date: _____

Checked by:

_____ _____ _____

Print Name Signature Date

Total Claimed Participation	$_____ _____%

_____

Signature of Bidder

_____

Date (Area Code) Tel. No.

_____

Person to Contact (Please Type or Print)

Small Business Enterprise (Rev 5/10)

ALL BIDDERS:

PLEASE NOTE: It is the bidder's responsibility to verify that the Small Business Enterprise (SBE) subcontractors are certified by the proper certifying authorities, and submit evidence of that certification with the bid. If a SBE prime contractor is not certified on the date of the bid opening, the SBE prime contractor will not qualify for the contracting preference. If the SBE subcontractor or subcontractors are not certified on the date of bid opening, that portion of that firm's participation will not count toward the minimum ten percent of the monetary value of the work needed to qualify for the contracting preference.

The form requires specific information regarding the construction contract: Total Contract Amount, Bid Opening Date, and Bidder's Name.

Indicate the appropriate bid item number (or numbers); Item of Work and description or services to be subcontracted or materials to be provided by the SBE; the SBE's business license information/expiration date, certification number and its expiration date; the SBE's contact information, including company and contact name, address, and telephone number; and the dollar amount expected to be paid to the SBE.

IMPORTANT: Identify **all** SBE firms participating in the project regardless of tier, including the prime contractor, if an SBE. Names of the First Tier SBE Subcontractors and their respective item(s) of work listed should be consistent, where applicable, with the names and items of work in the "List of Subcontractors" submitted with your bid. **Provide copies of the SBEs' quotes, and if applicable**, a copy of joint venture agreements pursuant to the Subcontractors Listing Law and the Special Provisions.

There is a column for the total SBE dollar amount. Enter the Total Claimed SBE Participation dollars and percentage amount of items of work submitted with your bid pursuant to the special provisions. (If 100% of item is not to be performed or furnished by the SBE, describe exact portion of time to be performed or furnished by the SBE.)

This form must be submitted with the bid if the bidder is attempting to qualify for the SBE contracting preference. If the bidder is not attempting to qualify for the SBE contracting preference the form does not need to be submitted.

FINAL REPORT – UTILIZATION OF SMALL BUSINESS ENTERPRISES

(SBE), FIRST-TIER SUBCONTRACTORS

PROJECT: **ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT**			CONTRACT COMPLETION DATE
PRIME CONTRACTOR	BUSINESS ADDRESS		ESTIMATED CONTRACT AMOUNT

BID ITEM NO.	SUBCONTRACTOR NAME, BUSINESS ADDRESS, AND PHONE	DESCRIPTION OF WORK PERFORMED	SBE CERT. NUMBER	CONTRACT PAYMENTS		DATE WORK COMPLETE	DATE OF FINAL PAYMENT
				NON-SBE	SBE		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
				$	$		
			TOTAL	$	$		

(i) Original Commitment

$ _____

2) I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

CONTRACTOR REPRESENTATIVES SIGNATURE	BUSINESS PHONE NUMBER	DATE

4) TO THE BEST OF MY KNOWLEDGE, THE ABOVE INFORMATION IS COMPLETE AND CORRECT

RESIDENT ENGINEER'S SIGNATURE	BUSINESS PHONE NUMBER	DATE
To be completed by the contractor and submitted to the Resident Engineer upon project completion		

INSTRUCTIONS - FINAL REPORT – UTILIZATION OF SMALL BUSINESS ENTERPRISES (SBE), FIRST-TIER SUBCONTRACTORS

The form requires specific information regarding the construction project, including the prime contractor name and address, contract completion date, and estimated contract amount. The objective of the form is to describe who did what by bid item numbers and description, asking for specific dollar values of item work completed broken down by subcontractors who performed the work, SBE and non-SBE work forces. SBE prime contractors are required to show the date of work performed by their own forces along with the corresponding dollar value of work.

Indicate appropriate bid item number or numbers, a description of work performed or materials provided, and subcontractor name and address. For those firms who are SBE, enter the SBE certification number. The SBE shall provide their certification number to the contractor and notify the contractor in writing with the date of decertification if their status changes during the course of the project.

The form has two columns for the dollar value to be entered for the item work performed by the subcontractor. The non-SBE column is used to enter the dollar value of work performed by firms who are not certified SBEs. Enter the dollar value of work performed by firms who are SBEs in the SBE column.

If the prime contractor or a subcontractor performing work as a SBE on the project becomes decertified and still performs work after their decertification date, enter the total value performed by the contractor/subcontractor under the appropriate SBE identification column.

If the prime contractor or a subcontractor performing work as a non-SBE on the project becomes certified as a SBE, enter the dollar value of all work performed after certification as a SBE under the appropriate SBE identification column.

Enter the total of each column on the form.

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CONTRACT
AND
BOND FORMS

For

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Independence, CA

ENCLOSURES:

Contract: Inyo County Standard Contract
Faithful Performance Bond
Labor and Material Payment Bond

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CONTRACT
BY AND BETWEEN
THE COUNTY OF INYO
and

_____, CONTRACTOR

for the

_____ PROJECT

THIS CONTRACT is awarded by the COUNTY OF INYO to CONTRACTOR on and made and entered into effective, _____, 20_____, by and between the COUNTY OF INYO, a political subdivision of the State of California, (hereinafter referred to as "COUNTY"), and _____ (hereinafter referred to as "CONTRACTOR"), for the construction or removal of _____ **PROJECT** (hereinafter referred to as "PROJECT"), which parties agree, for and in consideration of the mutual promises, as follows:

1. SERVICES TO BE PERFORMED. CONTRACTOR shall furnish, at his/her own expense, all labor, materials, methods, processes, implements, tools, machinery, equipment, transportation, permits, services, utilities, and all other items, and related functions and otherwise shall perform all work necessary or appurtenant to construct the Project in accordance with the Special Provisions, which are incorporated herein by reference per section 4(c) of this Contract, within the Time for Completion set forth, as well as in all other in the Contract Documents, for:

Title: _____**PROJECT**

2. TIME OF COMPLETION. Project work shall begin within _____ calendar days after receipt of the Notice to Proceed (NTP) (or on the start of work date identified in the NTP) and shall continue until all requested services are completed. Said services shall be completed no later than the Time of Completion as noted in the Project's Special Provisions. Procedures for any extension of time shall be complied with as noted in the Project's Special Provisions.

3. PAYMENT/CONSIDERATION. For the performance of all such work, COUNTY shall pay to CONTRACTOR for said work the total amount of: _____ dollars ($_____.____), adjusted by such increases or decreases as authorized in accordance with the Contract Documents, and payable at such times and upon such conditions as otherwise set forth in the Contract Documents.

4. ALL PROVISIONS SET FORTH HEREIN. CONTRACTOR and COUNTY agree that this Contract shall include and consist of:

a. All of the provisions set forth expressly herein;

b. The Bid Proposal Form, the Faithful Performance Bond, and the Labor and Materials Payment Bond, all of which are incorporated herein and made a part hereof by this reference; and

c. All of the other Contract Documents, as described in **Section 5-1.02, "Definitions,"** of the Standard Specifications of the Inyo County Public Works Department, dated October, 2015, all of which are incorporated herein and made a part of this Contract by this reference, including without limitation, the Bid Package, the Standard Specifications of the Inyo County Public Works Department, dated October, 2015, and the Special Provisions concerning this Project including the Appendices, the Plans, any and all amendments or changes to any of the above-listed documents, including, without limitation, contract change orders, and any and all documents incorporated by reference into any of the above-listed documents.

5. STANDARD OF PERFORMANCE. Contractor represents that he/she is qualified and licensed to perform the work to be done as required in this Contract. County relies upon the representations of Contractor regarding professional and/or trade training, licensing, and ability to perform the services as a material inducement to enter into this Contract. Acceptance of work by the County does not operate to release Contractor from any responsibility to perform work to professional and/or trade standards. Contractor shall provide properly skilled professional and technical personnel to perform all services under this Contract. Contractor shall perform all services required by this Contract in a manner and according to the standards observed by a competent practitioner of the profession. All work products of whatsoever nature delivered to the County shall be prepared in a manner conforming to the standards of quality normally observed by a person practicing in Contractor's profession and/or trade.

6. INDEPENDENT CONTRACTOR. Nothing contained herein or any document executed in connection herewith, shall be construed to create an employer-employee, partnership or joint venture relationship between County and Contractor, nor to allow County to exercise discretion or control over the manner in which Contractor performs the work or services that are the subject matter of this Contract; provided, however, the work or services to be provided by Contractor shall be provided in a manner consistent with reaching the County's objectives in entering this Contract.

Contractor is an independent contractor, not an employee of County or any of its subsidiaries or affiliates. Contractor will not represent him/herself to be nor hold her/himself out as an employee of County. Contractor acknowledges that s/he shall not have the right or entitlement in or to any of the pension, retirement or other benefit programs now or hereafter available to County's employees. The consideration set forth in Paragraph 3 shall be the sole consideration due Contractor for the services rendered hereunder. It is understood that County will not withhold any amounts for payment of taxes from the Contractor's compensation hereunder. Any and all sums due under any applicable state, federal or municipal law or union or professional and/or trade guild regulations shall be Contractor's sole responsibility. Contractor shall indemnify and hold County harmless from any and all damages, claims and expenses arising out of or resulting from any claims asserted by any third party, including but not limited to a taxing authority, as a result of or in connection with payments due it from Contractor's compensation.

7. ASSIGNMENT AND SUBCONTRACTING. The parties recognize that a substantial inducement to County for entering into this Contract is the professional reputation, experience and competence of Contractor. Assignments of any and/or all rights, duties or obligations of the Contractor under this Contract will be permitted only with the express consent

of the County. Contractor shall not subcontract any portion of the work to be performed under this Contract without the written authorization of the County. If County consents to such subcontract, Contractor shall be fully responsible to County for all acts or omissions of the subcontractor. Nothing in this Contract shall create any contractual relationship between County and subcontractor, nor shall it create any obligation on the part of the County to pay any monies due to any such subcontractor, unless otherwise required by law.

8. CLAIMS RESOLUTION. Pursuant to **Section 9204 of the Public Contract Code**, any and all claims submitted by Contractor to County will follow the provisions as set forth in the Project's Special Provisions.

9. INSURANCE INDEMNIFICATION. Contractor shall hold harmless, defend and indemnify County and its officers, officials, employees and volunteers from and against all claims, damages, losses, and expenses, including attorney fees arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence, or willful misconduct of the County.

10. INSURANCE. For the duration of this Agreement, Contractor shall procure and maintain insurance of the scope and amount specified in Attachment 3 and with the provisions specified in that attachment.

11. POLITICAL REFORM ACT. Contractor is not a designated employee within the meaning of the Political Reform Act because Contractor:

a. Will conduct research and arrive at conclusions with respect to his/her rendition of information, advice, recommendation or counsel independent of the control and direction of the County or of any County official, other than normal Contract monitoring; and

b. Possesses no authority with respect to any County decision beyond rendition of information, advice, recommendation or counsel [FPPC Reg. 18700(a)(2)].

12. COMPLIANCE WITH ALL LAWS.

Performance Standards: Contractor shall use the standard of care in its profession and/or trade to comply with all applicable federal, state and local laws, codes, ordinances and regulations that relate to the work or services to be provided pursuant to this Contract.

a. Safety Training:

i. Contractor shall provide such safety and other training as needed to assure work will be performed in a safe and healthful manner "in a language" that is understandable to employees receiving the training. The training shall in all respects be in compliance with CAL OSHA; and

ii. Contractor working with employees shall maintain a written Injury and Illness Prevention (IIP) Program, a copy of which must be maintained at each worksite or at a central worksite identified for the employees, if the Contractor has non-fixed worksites; and

iii. Contractor using subcontractors with the approval of the County to perform the work which is the subject of this Contract shall require each subcontractor working with employees to comply with the requirements of this section.

b. Child, Family and Spousal Support reporting Obligations**:**

i. Contractor shall comply with the state and federal child, family and spousal support reporting requirements and with all lawfully served wage and earnings assignment orders or notices of assignment relating to child, family and spousal support obligations.

c. Nondiscrimination:

i. Contractor shall not discriminate in employment practices or in the delivery of services on the basis of membership in a protected class which includes any class recognized by law and not limited to race, color, religion, sex (gender), sexual orientation, marital status, national origin (Including language use restrictions), ancestry, disability (mental and physical, including HIV and Aids), medical Conditions (cancer/genetic characteristics), age (40 and above) and request for family care leave.

ii. Contractor represents that it is in compliance with federal and state laws prohibiting discrimination in employment and agrees to stay in compliance with the Americans with Disabilities Act of 1990 (42 U.S.C. sections 12101, et. seq.), Age Discrimination in Employment Act of 1975 (42 U.S.C. 5101, et. seq.), Title VII (42 U.S.C. 2000, et. seq.), the California Fair Employment Housing Act (California Government Code sections 12900, et. seq.) and regulations and guidelines issued pursuant thereto.

13. LICENSES. Contractor represents and warrants to County that it has all licenses, permits, qualifications, insurance and approvals of whatsoever nature which are legally required of Contractor to practice its trade and/or profession. Contractor represents and warrants to County that Contractor shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this Contract, any licenses, permits, insurance and approvals which are legally required of Contractor to practice its and/or profession.

14. PREVAILING WAGE. Pursuant to **Section 1720 et seq. of the Labor Code**, Contractor agrees to comply with the Department of Industrial Relations regulations, to which this Contract is subject, the prevailing wage per diem rates in Inyo County have been determined by the Director of the State Department of Industrial Relations. These wage rates appear in the Department publication entitled "General Prevailing Wage Rates," in effect at the time the project is advertised. Future effective wage rates, which have been predetermined and are on file with the State Department of Industrial Relations are referenced but not printed in said publication. Such rates of wages are also on file with the State Department of Industrial Relations and the offices of the Public Works Department of the County of Inyo and are available to any interested party upon request. Contractor agrees to comply with County and the Department of Industrial Relations regulations in submitting the certified payroll.

15. CONTROLLING LAW VENUE. This Contract is made in the County of Inyo, State of California. The parties specifically agree to submit to the jurisdiction of the Superior Court of California for the County of Inyo.

16. WRITTEN NOTIFICATION. Any notice, demand, request, consent, approval or communication that either party desires or is required to give to the other party shall be in writing and either served personally or sent prepaid, first class mail. Any such notice, demand, et cetera, shall be addressed to the other party at the address set forth herein below. Either party

may change its address by notifying the other party of the change of address. Notice shall be deemed communicated within 48 hours from the time of mailing if mailed as provided in this section.

If to County: County of Inyo
Public Works Department
Attn: _____
168 N. Edwards
PO Drawer Q
Independence, CA 93526

If to Contractor: _____
_____
_____
_____

17. AMENDMENTS. This Contract may be modified or amended only by a written document executed by both Contractor and County and approved as to form by Inyo County Counsel.

18. WAIVER. No failure on the part of either party to exercise any right or remedy hereunder shall operate as a waiver of any other right or remedy that party may have hereunder.

19. TERMINATION. This Contract may be terminated for the reasons stated below:

a. Immediately for cause, if either party fails to perform its responsibilities under this Contract in a timely and professional manner and to the satisfaction of the other party or violates any of the terms or provisions of this Contract. If termination for cause is given by either party to the other and it is later determined that the other party was not in default or default was excusable, then the notice of termination shall be deemed to have been given without cause pursuant to paragraph "b" of this section; or

b. By either party without cause upon fifteen (15) days' written notice of termination. Upon termination, Contractor shall be entitled to compensation for services performed up to the effective date of termination; or

c. By County upon oral notice from the Board of Supervisors based on funding ending or being materially decreased during the term of this Contract.

20. TIME IS OF THE ESSENCE. Time is of the essence for every provision.

21. SEVERABILITY. If any provision of this Contract is held to be invalid, void or unenforceable, the remainder of the provision and/or provisions shall remain in full force and effect and shall not be affected, impaired or invalidated.

22. CONTRACT SUBJECT TO APPROVAL BY BOARD OF SUPERVISORS. It is understood and agreed by the parties that this Contract is subject to the review and approval by the Inyo County Board of Supervisors upon Notice and Public Hearing. In the event that the Board of Supervisors declines to enter into or approve said Contract, it is hereby agreed to that

there is, in fact, no binding agreement, either written or oral, between the parties herein.

23. ATTACHMENTS. All attachments referred to are incorporated herein and made a part of this Contract.

24. EXECUTION. This Contract may be executed in several counterparts, each of which shall constitute one and the same instrument and shall become binding upon the parties. In approving this Contract, it shall not be necessary to produce or account for more than one such counterpart.

25. ENTIRE AGREEMENT. This Contract, including the Contract Documents and all other documents which are incorporated herein by reference, constitutes the complete and exclusive agreement between the County and Contractor. All prior written and oral communications, including correspondence, drafts, memoranda, and representations, are superseded in total by this Contract.

---o0o---

IN WITNESS WHEREOF, COUNTY and CONTRACTOR have each caused this Contract to be executed on its behalf by its duly authorized representative, effective as of the day and year first above written.

COUNTY	**CONTRACTOR**
COUNTY OF INYO	_____
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____
Dated: _____	Dated: _____

APPROVED AS TO FORM AND LEGALITY:

_____
County Counsel

APPROVED AS TO ACCOUNTING FORM:

_____
County Auditor

APPROVED AS TO INSURANCE REQUIREMENTS:

_____
County Risk Manager

ATTACHMENT 1

_____ PROJECT

FAITHFUL PERFORMANCE BOND
(100% OF CONTRACT AMOUNT)

KNOW ALL MEN BY THESE PRESENTS: That _____

_____ as Principal, hereinafter "Contractor,"
(Name of Contractor)
and _____
(Name of Corporate Surety)

as Corporate Surety, hereinafter called Surety, are held and firmly bound unto the County of Inyo as Obligee, hereinafter called County, in the amount of _____ _____ dollars ($_____ _____ . ____), for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assignees, jointly and severally, firmly by these presents.

WHEREAS, Contractor has, by written Contract, dated _____, 20____, entered into an Contract with the County for the Construction of the _____ _____**PROJECT** (hereinafter referred to as "Project"), to be constructed in accordance with the terms and conditions set forth in the Contract for the Project, which contract is by reference incorporated herein and is hereinafter referred to as the "Contract."

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the County.

Whenever Contractor shall be, and is declared by County to be, in default under the Contract, the County having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly either:

1. Complete the Contract in accordance with its terms and conditions; or,

2. Obtain a Bid or Bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible Bidder, or if the County elects, upon determination by the County and the Surety jointly of the lowest responsible Bidder, arrange for a Contract between such Bidder and County, and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The

term "balance of the Contract price", as used in this paragraph, shall mean the total amount payable by County to Contractor under the Contract and any amendments thereto, less the amount properly paid by County to Contractor.

Any suit under this Bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due, or the date on which any warranty or guarantee period expires, whichever is later.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the County named herein.

---o0o---

Signed and sealed this _____ day of _____, 20 _____.

_____
(Name of Corporate Surety)

By: _____
(Signature)

(SEAL)

_____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

_____
(Name of Contractor)

By: _____
(Signature)

(SEAL)

_____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

NOTE: THE SIGNATURES OF THE CONTRACTOR AND THE SURETY MUST EACH BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC (OR OTHER OFFICER AUTHORIZED UNDER CALIFORNIA LAW) AND THE ACKNOWLEDGMENTS MUST BE ATTACHED TO THIS BOND.

The Faithful Performance Bond must be executed by a corporate surety on this form. No substitutions will be accepted. If an attorney-in-fact signs for the surety, an acknowledged statement from the surety appointing and empowering the attorney-in-fact to execute such bonds in such amounts on behalf of the surety must accompany the Faithful Performance Bond.

ADDRESS OF COUNTY FOR NOTICES TO BE SENT:

County of Inyo
224 North Edwards Street, P.O. Box N
Independence, California 93526

ATTACHMENT 2

_____ PROJECT

LABOR AND MATERIALS PAYMENT BOND
(100% OF CONTRACT AMOUNT)

KNOW ALL MEN BY THESE PRESENTS, that _____
(Name of Contractor)

_____ as Principal, hereinafter "CONTRACTOR,"

and _____
(Name of Corporate Surety)

as Corporate Surety, hereinafter called SURETY, are held and firmly bound unto the County of Inyo as Obligee, hereinafter called COUNTY, for the use and benefit of claimants as hereinafter defined in the amount of _____ dollars ($_____.____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assignees, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written contract dated _____, 20 _____, entered into an Contract with the County for the construction of the _____ **PROJECT** (hereinafter referred to as "PROJECT"), to be constructed in accordance with the terms and conditions set forth in the contract for the PROJECT, which contract is by reference incorporated herein, and is hereinafter referred to as the "CONTRACT."

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly make payment to all claimants as hereinafter defined, for all labor and materials used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise, it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Contractor, or with a Subcontractor of the Contractor, for labor, materials, or both, used or reasonably required for use in the performance of the Contract. Labor and materials is construed to include, but not limited to, that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. The above named Contractor and Surety hereby jointly agree with the County that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) calendar days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this Bond for the benefit of such claimant, prosecute the suit to final judgment for such

sum or sums as may be justly due claimant, and have execution thereon. The County shall not be liable for the payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant:

   a) Unless claimant, other than one having a direct contract with the Contractor, shall have given written notice to any two of the following: the Contractor, the County, or the Surety above named, within ninety (90) calendar days after such claimant did or performed the last of the work or labor, or furnished the last of the material for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in any envelope addressed to the Contractor, County, or Surety, at the address below, or at any place where an office is regularly maintained for the transaction of their business. Such notice may also be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

   b) After the expiration of one (1) year following the date on which County accepted the work done under the Contract. However, if any limitation embodied in this Bond is prohibited by any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

   c) Other than in a State Court of competent jurisdiction in and for the County or other political subdivision of the state in which the Project, or any part thereof, is situated, and not elsewhere.

4. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed or recorded against said Project, whether or not claim for the amount of such lien be presented under and against this Bond.

---o0o---

Signed and sealed this _____ day of _____, 20 ___.

_____
(Name of Contractor)

By: _____
(Signature)

(SEAL)

_____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

_____
(Name of Corporate Surety)

By: _____
(Signature)

(SEAL)

_____
(Title of Authorized Person)

_____
(Address for Notices to be Sent)

NOTE:
THE SIGNATURES OF THE CONTRACTOR AND THE SURETY MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC (OR OTHER OFFICER AUTHORIZED UNDER CALIFORNIA LAW).
The Labor and Materials Payment Bond must be executed by a corporate surety on this form. No substitutions will be accepted. If an attorney-in-fact signs for the surety, an acknowledged statement from the surety appointing and empowering the attorney-in-fact to execute such bonds in such amounts on behalf of the surety, must accompany the Labor and Materials Payment Bond.

ADDRESS OF COUNTY FOR NOTICES TO BE SENT TO:
County of Inyo
224 N. Edwards, P.O. Box N
Independence, California 93526

ATTACHMENT 3

AGREEMENT BETWEEN THE COUNTY OF INYO AND

_____

FOR THE _____ PROJECT

TERM:
FROM:_____ TO: _____

SEE ATTACHED INSURANCE PROVISIONS

Specifications 5
Insurance Requirements for Construction Contracts

Contractor shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL)**: Insurance Services Office Form CG 00 01, including products and completed operations, with limits of no less than **$1,000,000.00** per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability**: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), with limits no less than **$1,000,000** per accident for bodily injury and property damage.
3. **Workers' Compensation** insurance as required by the State of California, with Statutory Limits, and Employers' Liability insurance with a limit of no less than $1,000,000 per accident for bodily injury or disease.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the Entity. At the option of the Entity, either: the contractor shall cause the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Entity, its officers, officials, employees, and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the Entity guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

1. **The Entity, its officers, officials, employees, and volunteers are to be covered as additional insureds** on the CGL and automobile liability policies with respect to liability arising out of with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by or on behalf of the Contractor. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10, 11 85 or both CG 20 10 and CG 23 37 forms if later revisions used).
2. For any claims related to this project, the **Contractor's insurance coverage shall be primary** insurance as respects the Entity, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Entity, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
3. Each insurance policy required by this clause shall provide that coverage shall not be canceled, except with notice to the Entity.

Builder's Risk (Course of Construction) Insurance

Contractor may submit evidence of Builder's Risk insurance in the form of Course of Construction coverage. Such coverage shall **name the Entity as a loss payee** as their interest may appear.

If the project does not involve new or major reconstruction, at the option of the Entity, an Installation Floater may be acceptable. For such projects, a Property Installation Floater shall be obtained that provides for the improvement, remodel, modification, alteration, conversion or adjustment to existing buildings, structures, processes, machinery and equipment. The Property Installation Floater shall provide property damage coverage for any building, structure, machinery or equipment damaged, impaired, broken, or destroyed during the performance of the Work, including during transit, installation, and testing at the Entity's site.

Claims Made Policies

If any coverage required is written on a claims-made coverage form:

1. The retroactive date must be shown, and this date must be before the execution date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of contract work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective, or start of work date, the Contractor must purchase extended reporting period coverage for a minimum of five (5) years after completion of contract work.
4. A copy of the claims reporting requirements must be submitted to the Entity for review.
5. If the services involve lead-based paint or asbestos identification/remediation, the Contractors Pollution Liability policy shall not contain lead-based paint or asbestos exclusions. If the services involve mold identification/remediation, the Contractors

Pollution Liability policy shall not contain a mold exclusion, and the definition of Pollution shall include microbial matter, including mold.

Acceptability of Insurers
Insurance is to be placed with insurers with a current A.M. Best rating of no less than A: VII, unless otherwise acceptable to the Entity.

Waiver of Subrogation
Contractor hereby agrees to waive rights of subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation. **The Workers' Compensation policy shall be endorsed with a waiver of subrogation** in favor of the Entity for all work performed by the Contractor, its employees, agents and subcontractors.

Verification of Coverage
Contractor shall furnish the Entity with original certificates and amendatory endorsements, or copies of the applicable insurance language, effecting coverage required by this contract. All certificates and endorsements are to be received and approved by the Entity before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The Entity reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

Subcontractors
Contractor shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein.

Surety Bonds
Contractor shall provide the following Surety Bonds:

1. Bid bond
2. Performance bond
3. Payment bond
4. Maintenance bond

The Payment Bond and the Performance Bond shall be in a sum equal to the contract price. If the Performance Bond provides for a one-year warranty a separate Maintenance Bond is not necessary. If the warranty period specified in the contract is for longer than one year a Maintenance Bond equal to 10% of the contract price is required. Bonds shall be duly executed by a responsible corporate surety, authorized to issue such bonds in the State of California and secured through an authorized agent with an office in California.

Special Risks or Circumstances
Entity reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other circumstances.

SPECIAL PROVISIONS

FOR

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Inyo County, CA

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COUNTY OF INYO
DEPARTMENT OF PUBLIC WORKS

SPECIFICATIONS APPROVAL

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

Inyo County, CA

These Special Provisions have been prepared by the Inyo County Public Works Department under the direction of the undersigned and are approved for the work contemplated herein.

Michael Errante, P.E. Digitally signed by Michael Errante, P.E. Date: 2020.10.22 13:04:53 -07'00'

Director of Public Works

10/22/2020

Specifications Approval Date

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INTRODUCTION / GENERAL:

The ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT, a public works project of Inyo County, is to be constructed and completed in accordance with these Special Provisions, the Project Plans, and, insofar as they are referenced herein, the Standard Specifications of the Inyo County Public Works Department dated October, 2015 (Standard Specifications). The Special Provisions, the Project Plans, and the sections of the Standard Specifications referenced herein, constitute a portion of the "Contract Documents" governing the project and shall therefore be binding upon and observed by the person/entity with whom the County of Inyo enters into contract for construction of the Project.

Copies of the Project Plans may be obtained from the Inyo County Public Works Department in Independence, California, or online at: Bid Requests & RFPs

Unless indicated otherwise, all references in this document to sections are to those in the Standard Specifications or to other sections in these Special Provisions. In case of any irreconcilable conflict between the requirements of the Standard Specifications referenced herein and these Special Provisions, the latter shall prevail and be observed.

PROJECT DESCRIPTION:

This Project includes the installation of five generators and five automatic transfer switches, which are furnished by Inyo County Public Works. It also includes all necessary labor, equipment, materials, permits, design & calculations per the attached Scope of Work.

A job walk will be held on **November 10th, 2020, at 10:00 a.m.** starting at the Tri-County Fairgrounds

The work is more particularly described in the Plans and below, in the Project Special Provisions. All of the work shall be in accordance with all applicable State and local laws, codes, and regulations.

SECTION 3 CONTRACT AWARD AND EXECUTION

3-1.04 CONTRACT AWARD

Section 3-1.04 of the Standard Specifications shall be amended as follows:

Whenever possible, the award to the lowest bidder, if made, will be made no later than thirty (30) calendar days after the opening of bid proposals. However, failure of the County to make award within thirty (30) calendar days after the opening of the bid proposals shall not relieve the Contractor of its requirement to deliver an executed contract and bonds, and any other required documents, within 15 days of Notification of Award, as further described in Section 3-1.18: Contract Execution.

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The successful bidder must furnish 2 bonds:

1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the Contract amount.
2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the Contract amount.

The bond forms are in the Bid Book.

3-1.06 CONTRACTOR LICENSE

For a federal-aid contract, the Contractor must be properly licensed as a contractor from contract award through Contract acceptance (Pub Cont Code § 10164).

For a non-federal-aid contract:

1. The Contractor must be properly licensed as a contractor from bid opening through Contract acceptance (Bus & Prof Code § 7028.15)
2. Joint venture bidders must obtain a joint venture license before contract award (Bus & Prof Code § 7029.1)

3-1.07 INSURANCE POLICIES

The successful bidder must submit:

1. Copy of its commercial general liability policy and its excess policy or binder until such time as a policy is available, including the declarations page, applicable endorsements, riders, and other modifications in effect at the time of contract execution. Standard ISO form no. CG 0001 or similar exclusions are allowed if not inconsistent with section 7-1.06. Allowance of additional exclusions is at the discretion of the Department.
2. Certificate of insurance showing all other required coverages. Certificates of insurance, as evidence of required insurance for the auto liability and any other required policy, shall set forth deductible amounts applicable to each policy and all exclusions that are added by endorsement to each policy. The evidence of insurance shall provide that no cancellation, lapse, or reduction of coverage will occur without 10 days prior written notice to the Department.
3. A declaration under the penalty of perjury by a CPA certifying the accountant has applied GAAP guidelines confirming the successful bidder has sufficient funds and resources to cover any selfinsured retentions if the self-insured retention is over $50,000.

If the successful bidder uses any form of self-insurance for workers compensation in lieu of an insurance policy, it shall submit a certificate of consent to self-insure under Labor Code § 3700.

3-1.08 SMALL BUSINESS ENTERPRISE PARTICIPATION

This section is amended as follows.

This project is subject to Inyo County Ordinance No. 1156, *An Ordinance of the Board of Supervisors of the County of Inyo, State of California, Adding Chapter 6.06 to the Inyo County Code to Provide Contacting Preferences for Local and Small Businesses,* which is included in the
bid package.

Take necessary and reasonable steps to ensure that small business enterprises (SBEs) have opportunity to participate in the contract.

Make work available to SBEs and select work parts consistent with available SBE subcontractors and suppliers.

To qualify for the SBE contracting preference as described in Inyo County Ordinance No. 1156 (Ordinance No. 1156), Section 6.06.040, the bidder must show that he/she is a SBE as described in Ordinance No. 1156 Section 6.06.020.

To qualify for the SBE subcontracting preference as described in Ordinance No. 1156, Section 6.06.050, the bidder must show that the subcontractor(s) proposed for work on the project is/are a SBE(s) as described in Ordinance No. 1156 Section 6.06.020.

It is the bidders responsibility to verify that the SBE(s) is certified as a small business enterprise at the date of bid opening.

SBE Contracting Preference Commitment Submittal

If the bidder is claiming the SBE contracting preference, submit SBE information on the "Small Business Enterprise Commitment (Construction Contracts)," form included in the Bid Package. If the bidder is not claiming the SBE contracting preference remove the form from the Bid Package before submitting your bid.

Submit written confirmation from each SBE subcontractor stating that it is participating in the contract. Include confirmation with the SBE Commitment form. A copy of a SBE subcontractor's quote will serve as written confirmation that the SBE is participating in the contract.

SUBCONTRACTOR AND SBE RECORDS. The Contractor shall maintain records showing the name and business address of each first-tier subcontractor. The records shall also show the name and business address of every SBE subcontractor, SBE vendor of materials and SBE trucking company, regardless of tier. The records shall show the date of payment and the total dollar figure paid to all of these firms. SBE prime contractors shall also show the date of work performed by their own forces along with the corresponding dollar value of the work.

Upon completion of the contract, a summary of these records shall be prepared on "Final Report – Utilization of Small Business Enterprises - (SBE), First-Tier Subcontractors," certified correct

by the Contractor or his authorized representative, and submitted to the Engineer. The form shall be furnished to the Engineer within 90 days from the date of contract acceptance.

3-1.18 CONTRACT EXECUTION

The successful bidder must sign the Contract form.

Deliver two (2) fully executed (except for the County's signature) to the Office Engineer:

1. Signed Contract form
2. Contract bonds
3. Documents identified in section 3-1.07
4. Payee Data Record
5. Small Business (SB) Participation Report form
6. For a federal-aid contract, Caltrans Bidder - DBE Information form

The Office Engineer must receive these documents before the 10th business day after the bidder receives the contract.

The bidder's security may be forfeited for failure to execute the contract within the time specified (Pub Cont Code §§ 10181, 10182, and 10183).

A copy of the Contract form is included in your bid book.

SECTION 7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Amended to read as follows:

7-1.02K (2) WAGES

The general prevailing wage rates, determined by the Department of Industrial Relations, for Inyo County, are available at the County of Inyo address or the California DIR web site at http://www.dir.ca.gov. Changes are available at the same locations. These wage rates are not included in the Contract Documents. All labor will be paid at not less than these minimum wage rates.

ADD TO 7-1.02K (3) CERTIFIED PAYROLL RECORDS (LABOR CODE §1776)

Keep accurate payroll records. Submit a copy of your certified payroll records, weekly, including those of subcontractors to the following:

1. Inyo County Department of Public Works
2. Division of Labor Standards Enforcement of the Department of Industrial Relations
3. Division of Apprenticeship Standards of the Department of Industrial Relations

Include:

1. Each employee's:
    1.1. Full name
    1.2. Address

1.3. Social security number
1.4. Work classification
1.5. Straight time and overtime hours worked each day and week
1.6. Actual wages paid for each day to each:
    1.6.1. Journeyman
    1.6.2. Apprentice
    1.6.3. Worker
    1.6.4. Other employee you employ for the work
1.7. Pay rate
1.8. Itemized deductions made
1.9. Check number issued

2. Apprentices and the apprentice-to-journeyman ratio

Each certified payroll record must include a Statement of Compliance signed under penalty of perjury that declares:

1. The information contained in the payroll record is true, correct, and complete
2. The employer has complied with the requirements of sections 1771, 1811, and 1815 for any work performed by his or her employees on the public works project
3. The wage rates paid are at least those required by the Contract

7-1.05 INDEMNIFICATION

Contractor shall hold harmless, defend, and indemnify the County of Inyo and its officers, officials, employees, and volunteers from and against all claims, damages, losses, and expenses including attorney fees and litigation costs, arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence, or willful misconduct of the County.

7-1.06 INSURANCE

Please see 'Insurance Requirements for Construction Contracts'

SECTION 8 PROSECUTION AND PROGRESS

Amended to read as follows:

ADD TO 8-1.05 TIME

The Contractor shall complete all designated portions of the work required to be provided pursuant to the contract no later than **Ninety (90) Calendar Days** from and including the Starting Date, plus such additional days, if any, which are expressly granted as extensions of time by Contract Change Orders signed and issued by the County. Such total number of days shall be referred to herein as the "Time for Completion".

Failure of the Contractor to perform any covenant or condition contained in the Contract Documents within the time period specified shall constitute material breach of this Contract entitling the County to terminate the Contract unless the Contractor applies for, and receives, an extension of time in accordance with the procedures set forth in Section 1017.09 SS, "EXTENSION OF TIME."

8-1.10 LIQUIDATED DAMAGES

In accordance with Government Code Section 53069.85, the Contractor shall pay to the County of Inyo, liquidated damages in the amounts of:

$250.00 per day for each and every calendar day delay in finishing the work in excess of the Time for Completion specified.

The County shall be entitled to deduct the amounts of liquidated damages from any payment otherwise due to the Contractor.

PUBLIC CONTRACT CODE SECTION 9204

(a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a

subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

ELECTION EMERGENCY STANDBY GENERATORS INSTALLATION PROJECT

PROJECT SCOPE

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ELECTIONS EMERGENCY STANDBY GENERATORS PROJECT

General Scope-of-Work:

The Elections Emergency Standby Generators Project is divided between five locations within Inyo County, California. The project includes sites in Bishop, Big Pine, Independence, and Lone Pine. The project includes the installation of five generators and five automatic transfer switches, all of which are furnished by Inyo County Public Works (product data sheets attached). The Contractor is responsible for reviewing the installation instructions and performing any and all work (including furnishing all labor (prevailing wages govern), materials, and equipment) necessary to provide a complete installation per the locally adopted building, electrical, and other applicable codes, as well as good industry practices and standards, including but not limited to:

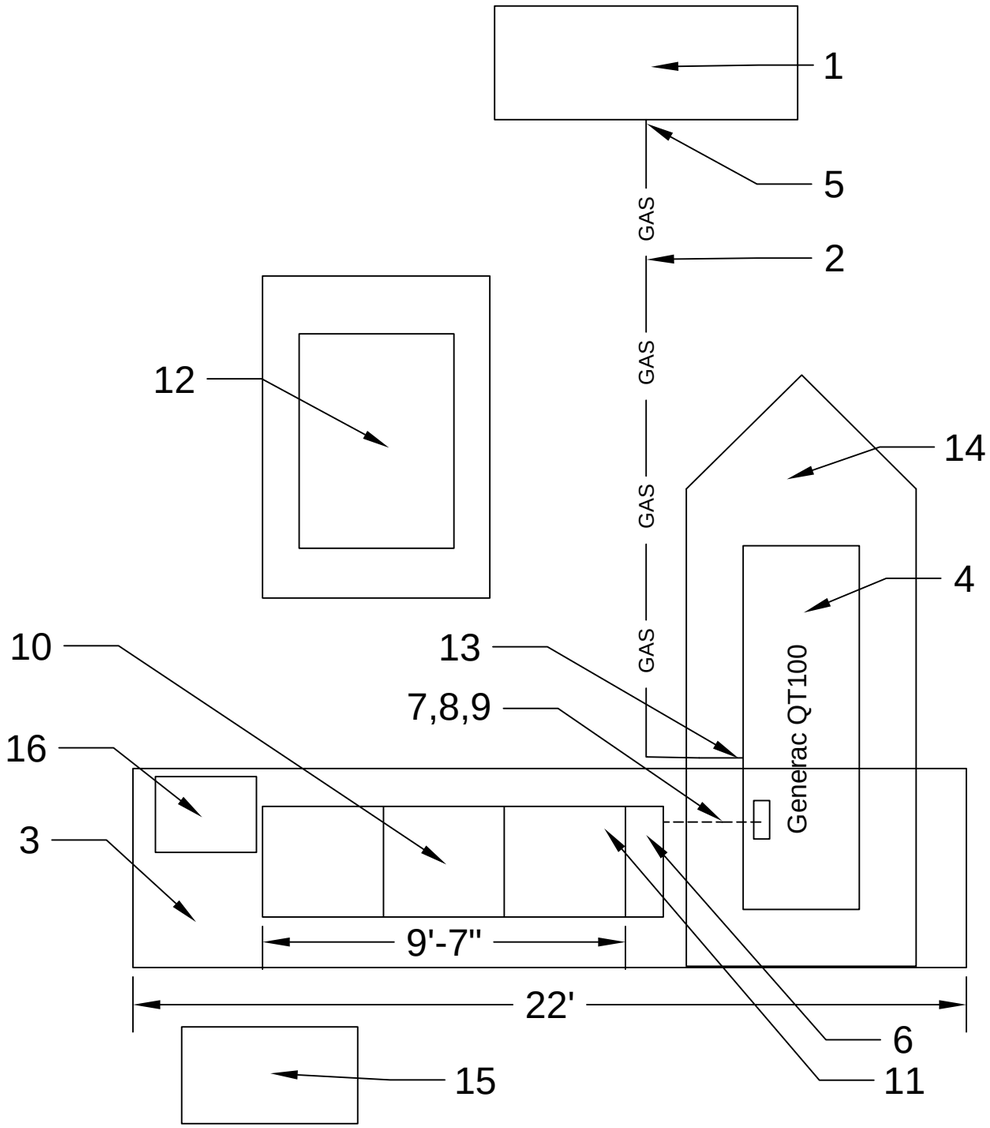
1. Electrical design, single line drawings, and electrical calculations
2. Obtain all permits and pay all fees
3. Demolition, concrete saw cutting and breaking, and scanning for concealed pipes and conduits
4. Trenching, excavation, backfill, compaction
5. Concrete formwork, rebar, concrete materials, concrete placement and finishing, tenting, temporary heat, and concrete blankets for subgrade and concrete frost protection
6. Installation and connection of any above and below ground propane lines and tracer wires, and necessary appropriately sized pressure regulators
7. Grounding or bonding wires, clamps, and ground rods
8. Above and below ground PVC, EMT, Rigid, and Flexible conduit
9. Panels, conductors, and circuit breakers
10. Daily and final cleanup, offhauling of trash, crating materials, and debris, payment of dump fees, and final grading
11. Startup, testing, commissioning of the generators and transfer switches
12. Training of the applicable County personnel on the operation of said equipment.
13. Contractor is to submit a layout defining the proposed sizing and layout of conduits, cut sheets for materials to be used, etc. to County Engineer for review and approval by the Building Official prior to starting work.
14. No change orders allowed. Contractor to provide for all contingencies.

Venue #1 – Tri-County Fairgrounds, 475 Sierra Street, Bishop, CA

This scope of work includes all work necessary, whether reflected in this scope of work or not, to complete the installation of a Generac QT100 100 kW, Single Phase trailer-mounted generator and Generac 400 Amp automatic transfer switch (ATS), both of which will be provided by Inyo County Public Works.

The transfer switch will be permanently installed on doubled Unistrut uprights set in concrete footings or other suitable method of attachment adjacent to the main switchgear, the connection of the trailer-mounted generator using flexible propane hoses utilizing quick disconnect propane fittings and an appropriately sized propane pressure regulator, and electrical twist-lock type electrical connections and cords for connecting generator power, battery charger circuit, block heater circuit, and control wiring circuits, the interception of the subfeed from the applicable breaker (Home Economics) in the Main Switchgear. The propane tank and pad will be furnished and installed by the Tri-County Fair personnel. Contractor is responsible for the design of all work, and must submit a plan, single line drawing, and product data sheets with respect to conduit size and material, conduit routing, conductor and breaker sizing, trailer grounding or bonding, etc. for approval by the Building Official and the County Engineer prior to commencing work.


Tri-County Fairgrounds Generator Site
475 Sierra Street, Bishop, CA 93514
Wye Rd
N Sierra Hwy
6
395
Main St
Eastern Sierra Tri-County Fair
Tri-County Fairground Generator Site
Maple St
Sycamore St
Keith Rd
Google Earth
©2020 Google
700 ft
N



LEGEND

1. Propane Tanks (N) - by Fairgrounds
2. Buried Propane Line (N)
3. Concrete Pad (E)
4. Generac QT100 Generator (N) - County Furnished, Contractor Installed
5. High to Medium Propane Regulator (N)
6. Automatic Transfer Switch - County Furnished, Contractor Install
7. Generator Power Circuit (N)
8. Control Wiring Circuit (N)
9. Block Heater& Battery Charger Circuit (N)
10. Main Switchgear (E) - To Remain
11. Home Economics Building - Subfeed Breaker (E)
12. SCE Transformer (E)
13. Medium to Low Propane Regulator (N)
14. Flat Bed Trailer (N) - By Inyo County
15. Electric Vault (E)
16. Fair Office Step Down Transformer (E)

Tri-County Fairgrounds
General Arrangement Layout

Inyo County Public Works
Design: GLW 10/20/2020
Scale: $\frac{1}{4}$" = 1' - 0", @ 11" x 17"

Standby Generators

GENERAC®

Standby Generators
Liquid-Cooled Gaseous Engine

Tri-County Fairgrounds

INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus™ Controller
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating

Model QT070 (Aluminum - Bisque) - 70 kW 60 Hz
Model QT080 (Aluminum - Bisque) - 80 kW 60 Hz
Model QT100 (Aluminum - Bisque) - 100 kW 60 Hz
Model QT130 (Aluminum - Bisque) - 130 kW 60 Hz
Model QT150 (Aluminum - Bisque) - 150 kW 60 Hz

c UL us LISTED

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

QUIET TEST™

Meets EPA Emission Regulations
70, 100, 130 & 150 kW meet CA/MA emissions requirement with optional catalyst
80 kW not for sale in CA/MA

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.

- **TEST CRITERIA:**
  - √ PROTOTYPE TESTED
  - √ SYSTEM TORSIONAL TESTED
  - √ NEMA MG1-22 EVALUATION
  - √ MOTOR STARTING ABILITY

- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.

- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC® ISO 9001:2008

GENERAC®

70 • 80 • 100 • 130 • 150 kW

application & engineering data

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire (70, 80 & 150 kW) or 12 wire (100 & 130 kW)
Bearings	Sealed Ball
Coupling	Flexible Disc (70, 80 & 150 kW) or Gear Drive (100 & 130 kW)
Excitation System	Brushless

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 24F, 525 CCA (70, 80 & 150 kW) or Group 27F, 700 CCA (100 & 130 kW)
System Voltage	12 Volts

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

ENGINE SPECIFICATIONS: 80 kW

Make	Generac
Model	V-Type
Cylinders	8
Displacement (Liters)	5.4
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE SPECIFICATIONS: 70, 100, 130 & 150 kW

Make	Generac
Model	V-Type
Cylinders	10
Displacement (Liters)	6.8
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/l)	5/4.7 (70, 100, 130 & 150 kW) or 6/5.7 (80 kW)

ENGINE COOLING SYSTEM

Type	Closed
Water Pump	Belt driven
Fan Speed (rpm)	2300 - 70 kW 2174 - 80 kW 1670 - 100 kW 1950 - 130 kW 2200 - 150 kW
Fan Diameter (in/mm)	22/558.8 (70 kW) or 26/660.4 (80, 100, 130 & 150 kW)
Fan Mode	Pusher (70 kW) or Puller (80, 100, 130 & 150 kW)

FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11-14" water column/21-26 mm HG

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
QT070	120/240 V, 1Ø, 1.0 pf	67	292	64	267	300
	120/208 V, 3Ø, 0.8 pf	70	243	67	232	300
	120/240 V, 3Ø, 0.8 pf	70	211	67	201	250
	277/480 V, 3Ø, 0.8 pf	70	105	67	101	125
QT080	120/240 V, 1Ø, 1.0 pf	77	333	77	333	400
	120/208 V, 3Ø, 0.8 pf	80	278	80	278	300
	120/240 V, 3Ø, 0.8 pf	80	241	80	240	300
	277/480 V, 3Ø, 0.8 pf	80	120	80	120	150
QT100	120/240 V, 1Ø, 1.0 pf	100	417	89	371	450
	120/208 V, 3Ø, 0.8 pf	100	347	94	326	400
	120/240 V, 3Ø, 0.8 pf	100	301	94	283	350
	277/480 V, 3Ø, 0.8 pf	100	150	94	141	175
QT130	120/240 V, 1Ø, 1.0 pf	130	542	117	488	600
	120/208 V, 3Ø, 0.8 pf	130	451	122	423	500
	120/240 V, 3Ø, 0.8 pf	130	391	122	367	450
	277/480 V, 3Ø, 0.8 pf	130	195	122	183	225
QT150	120/240 V, 1Ø, 1.0 pf	144	625	136	567	700
	120/208 V, 3Ø, 0.8 pf	150	520	142	493	600
	120/240 V, 3Ø, 0.8 pf	150	451	142	427	500
	277/480 V, 3Ø, 0.8 pf	150	225	142	214	250

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
QT070	120/240 V, 1Ø	129	356
	120/208 V, 3Ø	194	471
	120/240 V, 3Ø	168	408
	277/480 V, 3Ø	83	201
QT080	120/240 V, 1Ø	174	435
	120/208 V, 3Ø	186	466
	120/240 V, 3Ø	161	404
	277/480 V, 3Ø	70	175
QT100	120/240 V, 1Ø	150	413
	120/208 V, 3Ø	186	452
	120/240 V, 3Ø	161	392
	277/480 V, 3Ø	107	261
QT130	120/240 V, 1Ø	236	648
	120/208 V, 3Ø	364	885
	120/240 V, 3Ø	315	767
	277/480 V, 3Ø	161	390
QT150	120/240 V, 1Ø	486	1214
	120/208 V, 3Ø	534	1334
	120/240 V, 3Ø	463	1156
	277/480 V, 3Ø	250	624

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(l/hr)	(ft^3/hr)
QT070	Exercise cycle	110	3.1	1.2	4.6	44
	25% of rated load	260	7.4	2.85	10.8	104
	50% of rated load	500	14.2	5.46	20.8	200
	75% of rated load	696	19.8	7.62	29.1	280
	100% of rated load	1020	29	11.17	42.6	411
QT080	Exercise cycle	95	2.7	1.4	5.51	53
	25% of rated load	549.5	15.6	3.46	13.11	126
	50% of rated load	784.4	22.2	6.62	25.1	241
	75% of rated load	1024.8	29.0	9.24	34.96	336
	100% of rated load	1252.2	35.5	12.78	48.38	465
QT100	Exercise cycle	130	3.7	1.4	5.4	52
	25% of rated load	371	10.5	4.1	15.5	149
	50% of rated load	713	20.3	7.9	29.8	287
	75% of rated load	991	28.2	11	41.5	400
	100% of rated load	1260	35.8	13.9	52.6	507
QT130	Exercise cycle	135	3.8	1.4	5.7	55
	25% of rated load	482	13.7	5.3	20	193
	50% of rated load	927	26.3	10.3	38.7	373
	75% of rated load	1292	36.7	14.3	54	520
	100% of rated load	1786	50.8	19.8	74.6	719
QT150	Exercise cycle	155	4.4	1.7	6.5	63
	25% of rated load	556	15.8	6.09	23.2	224
	50% of rated load	1070	30.4	11.72	44.7	431
	75% of rated load	1491	42.4	16.33	62.3	600
	100% of rated load	2061	58.6	22.57	86.1	830

Note: **Fuel pipe must be sized for full load.**

For BTU content, multiply ft^3/hr x 2500 (LP) or ft^3/hr x 1000 (NG).

For Megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG).

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

ENGINE COOLING

	70 kW	80 kW	100 kW	130 kW	150 kW
Air flow (inlet air including alternator and combustion air in ft³/min)	5200/147.2	5300/150.1	5500/155.7	6450/182.6	7800/220.9
System coolant capacity (gal/liters)	4.5/17	4/15.1	4.5/17	4.5/17	4.5/17
Heat rejection to coolant (BTU/hr)	287,000/302.8	316,000/333.4	342,000/360.8	496,000/523.3	568,000/599.3
Maximum operation air temperature on radiator (°C/°F)	60/150				
Maximum ambient temperature (°C/°F)	50/140				

COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	205/5.8	143/4	262/7.4	336/9.5	410/11.6

SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	64	65	68	69	66
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	74	72	75	79

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm/cmm)	557/15.8	720/20.4	888/25.1	1119/31.7	1535/43.5
Exhaust temperature at muffler outlet (°C/°F)	477/890	796/1465	516/960	521/970	593/1100

ENGINE PARAMETERS

Rated Synchronous rpm	1800	3600	2300	2970	3600

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
Altitude Deration (70,100,130 & 150) ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft
Altitude Deration (80 kW) ..... 1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft

CONTROLLER FEATURES

2-Line Plain Text LCD Display ..... Simple user interface for ease of operation.
Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser
Off ..... Stops unit. Power is removed. Control and charger still operate.
Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 10-30 seconds ..... Standard 10 sec
Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up ..... 5 sec
Engine Cool-Down ..... 1 min
Starter Lock-out ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger ..... Standard
Automatic Voltage Regulation with Over and Under Voltage Protection ..... Standard
Automatic Low Oil Pressure Shutdown ..... Standard
Overspeed Shutdown ..... Standard, 72 Hz
High Temperature Shutdown ..... Standard
Overcrank Protection ..... Standard
Safety Fused ..... Standard
Failure to Transfer Protection ..... Standard
Low Battery Protection ..... Standard
50 Event Run Log ..... Standard
Future Set Capable Exerciser ..... Standard
Incorrect Wiring Protection ..... Standard
Internal Fault Protection ..... Standard
Common External Fault Capability ..... Standard
Governor Failure Protection ..... Standard

GENERAC

70 • 80 • 100 • 130 • 150 kW available accessories

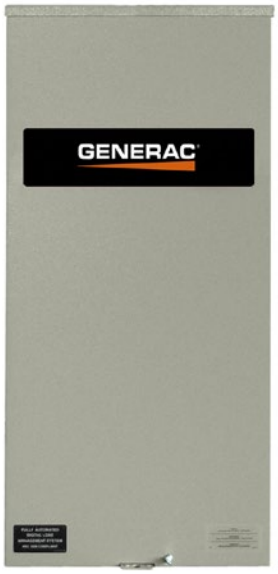
Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G005632-1 - 70, 80 & 150 kW G005633-0 - 100 & 130 kW	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G005620-0 - 70, 100 & 130 kW G006204-0 - 80 kW G005667-0 - 150 kW	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G005660-0 - 70, 100, 130, and 150 kW G006915-0 - 80 kW	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.

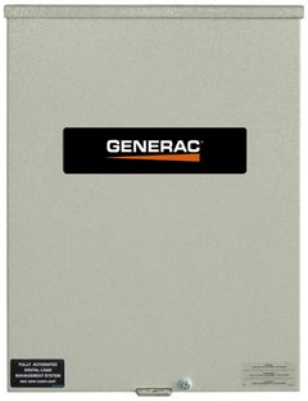
TRI-COUNTY, BIG PINE, STATHAM HALL
400A, 120/240V, SINGLE PHASE

Automatic Transfer Switches

Service and non-Service rated Automatic Smart Transfer Switches

100 - 400 Amps, Single Phase





c UL us LISTED

USA ENGINEERED & BUILT*

*Built in the USA using domestic and foreign parts

*CUL only applies to non-service rated switches

Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution™ or Nexus™ Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in a service rated equipment configuration.

Standard Features

Service rated (RTSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a 5 year limited warranty.

* Non-service rated (RTSC) switches are housed in a steel enclosure.

DPM Technology

Through the use of digital power technology (DPM), these switches have the capability to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with Smart Management Modules, up to 8 more loads can be managed as well, providing the most installation efficient power management options available.

GENERAC®

100-400 Amps, Single Phase — Automatic Smart Transfer Switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out ..... <60%
Timer to generator start ..... 10 second factory set, adjustable between 2-1500 seconds by a qualified dealer*
Engine warm up delay ..... 5 seconds
Standby voltage sensor ..... 60% for 5 seconds
Utility voltage pickup ..... >80%
Re-transfer time delay ..... 15 seconds
Engine cool-down timer ..... 60 seconds
Exerciser ..... 12 minutes every 7 days

The transfer switch can be operated manually without power applied.

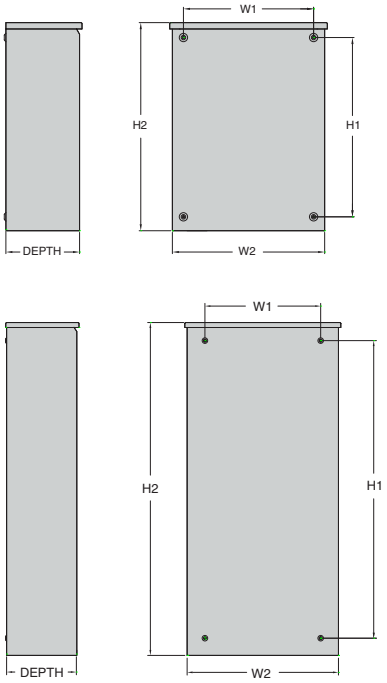
*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Amps	100	100	150	200	200	300	400	400
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
Enclosure Type	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UL	UL	UL/CUL	UL	UL	UL/CUL	UL
Withstand Rating (Amps)	10,000	10,000	22,000	10,000	22,000	22,000	22,000	22,000
Lug Range	1/0 - #14		250 MCM - #6			600 MCM - #4 or 1/0 - 250 MCM		

Dimensions

Model		RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Height (in./mm)	H1	17.24/437.9	17.24/437.9	26.75/679.4	17.24/437.9	26.75/679.4	42.91/1089.9	31.25/793.8	42.91/1089.9
	H2	20/508	20/508	30/762	20/508	30/762	48/1219.2	36/914.4	48/1219.2
Width (in./mm)	W1	12.5/317.5	12.5/317.5	10.5/266.7	12.5/317.5	10.5/266.7	16.69/423.9	19.18/487.2	16.69/423.9
	W2	14.6/370.8	14.6/370.8	13.5/342.9	14.6/370.8	13.5/342.9	21.82/554.2	24/609.6	21.82/554.2
Depth (in./mm)		7.09/180.1	7.09/180.1	6.3/160.1	7.09/180.1	6.3/160.1	10.06/255.5	10.06/255.5	10.06/255.5
Weight (lbs./kilos)		20/9.07	22.5/10.21	39/17.69	20/9.07	39/17.69	140/63.5	133/60.33	140/63.5



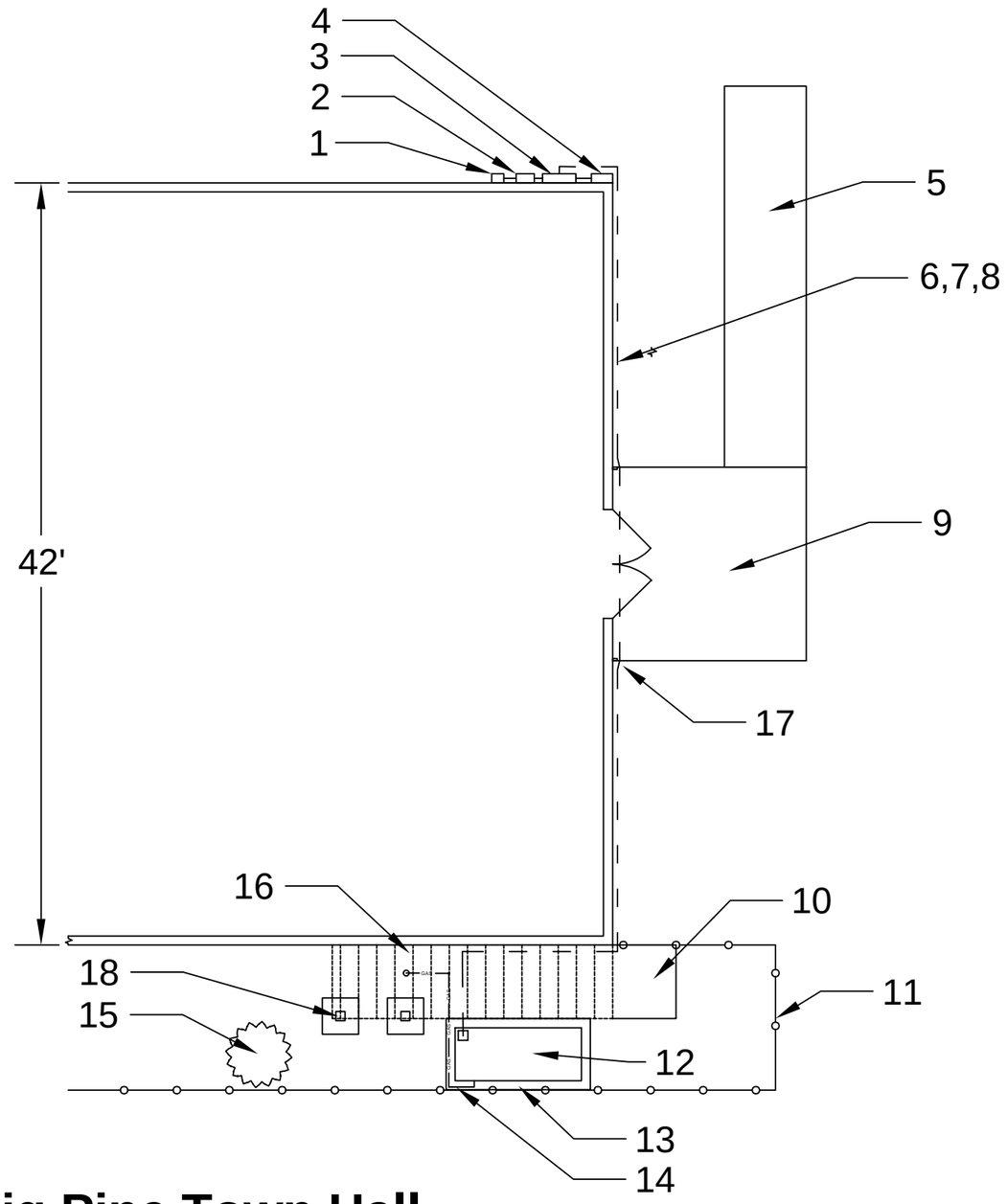
Venue #2 – Big Pine Town Hall, 180 Dewey Street, Big Pine, CA

This scope of work includes all work (labor, materials, and equipment) necessary, whether reflected in this scope of work or not, to complete the installation of a Generac RG048 48 kW, Single Phase generator and Generac 400 Amp automatic transfer switch (ATS), both of which will be provided by Inyo County Public Works.

This scope of work includes but is not limited to an 8" concrete generator pad including excavation and subgrade compaction, formwork, rebar, concrete materials, concrete placement and finishing, concrete blankets for subgrade and concrete frost protection. Adjustment of existing underground propane line, installation of a properly sized propane pressure regulator, installation of above-grade propane lines, setting of generator on concrete pad including any crane costs, installation of surface mounted conduit for generator power, battery charger circuit, block heater circuit, and control wiring, interception and connection to the existing subfeed from main breaker to distribution panel, addition of an additional subpanel for generator battery charging and block heater circuits, and the installation of the automatic transfer switch. Contractor is responsible for the design of all work, and must submit a plan, single line drawing, and product data sheets with respect to conduit size and material, conduit routing, conductor and breaker sizing, grounding or bonding, etc. for approval by the Building Official and the County Engineer prior to commencing work.


Big Pine Town Hall Generator Location
180 Dewey Street, Big Pine, CA
Dewey St
Big Pine Town Hall Generator Location
Hall St
U.S. Hwy 395
395
Google Earth
© 2020 Google
200 ft
N


PARKING
ONLY



LEGEND

1. Electrical J Box (E)
2. Subpanel (N) - Subfeed breakers, block heater and battery charger breakers
3. Automatic Transfer Switch (N) - County Furnished, Contractor Install
4. Meter Main Service (E)
5. ADA Ramp (E)
6. Generator Power (N) - bolted to foundation
7. Control Wiring Circuit (N) - bolted to foundation
8. Block Heater& Battery Charger Circuit (N) - bolted to foundation
9. Entry Platform (E)
10. Concrete Stair Landing (E)
11. Chain Link Fence (E)
12. Generac RG48 Generator (N) - County Furnished, Contractor Installed
13. Concrete Pad (N)
14. Above-Ground Propane Line w/ Pressure Regulator (N)
15. Tree (E)
16. Steel Stairway (E)
17. Bend conduit out at each side of Entry Platform to clear legs
18. Stair upper landing footings (E)

Big Pine Town Hall
General Arrangement Layout

Inyo County Public Works
Design: GLW 10/20/2020
Scale: $\frac{1}{8}$" = 1' - 0", @ 11" x 17"

Protector® Series

PROTECTOR® SERIES

Standby Generators

Liquid-Cooled Gaseous Engine

Big Pine Town Hall, RG48KW

INCLUDES:

- Two-Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/ Portuguese) With External Viewing Window for Easy Indication of Generator Status and Breaker Position.
- SwRI® listed (NFPA37, clause 4.1.4.1.2) Generator can be installed a minimum 18" distance from combustible walls*
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Field Convertible Fuel Type With No Mechanical Adjustment Required.
- 5 Year Limited Warranty
- UL 2200 Listed

*Only if located away from doors, windows, and fresh air intakes, and unless otherwise directed by local codes. Please review install guide for more details.

Standby Power Rating

Model RG048 (Aluminum - Bisque) - 48 kW 60 Hz

*Assembled in the USA using domestic and foreign parts

Meets EPA Emission Regulations

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ **PROTOTYPE TESTED**
  - ✓ **SYSTEM TORSIONAL TESTED**
  - ✓ **NEMA MG1-22 EVALUATION**
  - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.

GENERAC®

48 kW

application & engineering data

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	F (48 kW)
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct

ENGINE SPECIFICATIONS: 48 kW

Make	Generac
Model	Inline 4 cylinder
Cylinders	4
Displacement (Liters)	4.5
Bore (in/mm)	4.5/114.3
Stroke (in/mm)	4.25/107.95
Compression Ratio	9.9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full Flow Spin-On Cartridge
Crankcase Capacity (qt/l)	11.6/11 (48 kW)

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ENGINE COOLING SYSTEM

Type	Ethylene Glycol 50/50 Mix
Water Pump	Belt-Driven
Fan Speed (rpm)	2,100
Fan Diameter (in/mm)	20
Fan Mode	Pusher

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2.5 Amp
Recommended Battery (battery not included)	Group 27F (48kW), 725CCA
System Voltage	12 Volts

FUEL SYSTEM

Fuel Type	Natural Gas, Propane Vapor
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	3.5-14 Water Column/9-26 mm HG
LP Fuel Pressure	7 - 14" Water Column
NG Fuel Pressure	3.5 - 14" Water Column

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
Class F insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

48 kW

operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
RG048	120/240 V, 1Ø, 1.0 pf	48	200	48	200	200
	120/208 V, 3Ø, 0.8 pf	48	167	48	167	175
	120/240 V, 3Ø, 0.8 pf	48	144	48	144	150
	277/480 V, 3Ø, 0.8 pf	48	72	48	72	80

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
RG048	120/240 V, 1Ø	100	300
	120/208 V, 3Ø	118	242
	120/240 V, 3Ø	97	189
	277/480 V, 3Ø	63.6	122.8

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(ft^3/hr)	(l/hr)
RG048	Exercise cycle	—	—	—	—	—
	25% of rated load	201	5.7	2.88	104.7	10.9
	50% of rated load	336	9.5	4.16	151.3	15.7
	75% of rated load	447	12.7	5.28	192	20
	100% of rated load	604	17.1	6.61	240.4	25

Note: **Fuel pipe must be sized for full load.**

For Btu content, multiply ft^3/hr x 2520 (LP) or ft^3/hr x 1000 (NG)

For megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG)

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

GENERAC®

48 kW operating data

ENGINE COOLING

	48 kW
Air Flow (inlet air including alternator and combustion air in cfm/cmm)	2,829/80.1
System Coolant Capacity (gal/liters)	2.9/11
Heat Rejection to Coolant (BTU per hr/MJ per hr)	201,060
Maximum Operation Air Temperature on Radiator (°C/°F)	60/150
Maximum Ambient Temperature (°C/°F)	50/140

COMBUSTION REQUIREMENTS

Flow at Rated Power (scfm/cmm)	92.7/2.6

SOUND EMISSIONS

Sound Output in dB(A) at 23 ft (7 m) With Generator in Exercise Mode*	68
Sound Output in dB(A) at 23 ft (7 m) With Generator Operating at Normal Load*	70

EXHAUST

Exhaust Flow at Rated Output (scfm/cmm)	104/10.6
Exhaust Temperature at Muffler Outlet (°C/°F)	507/945

ENGINE PARAMETERS

Rated Synchronous rpm	1,800

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
Altitude Deration ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft

CONTROLLER FEATURES

Two-Line Plain Text LCD Display ..... Simple user interface for ease of operation.
Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser
Off ..... Stops unit. Power is removed. Control and charger still operate.
Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable Start Delay Between 10-30 Seconds ..... 10 sec standard
Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up ..... 5 sec
Engine Cool-Down ..... 1 min
Starter Lock-Out. ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger ..... Standard
Automatic Voltage Regulation With Over and Under Voltage Protection ..... Standard
Automatic Low Oil Pressure Shutdown ..... Standard
Overspeed Shutdown ..... Standard, 72 Hz
High Temperature Shutdown ..... Standard
Overcrank Protection ..... Standard
Safety Fused ..... Standard
Failure to Transfer Protection ..... Standard
Low Battery Protection ..... Standard
50 Event Run Log ..... Standard
Future Set Capable Exerciser ..... Standard
Incorrect Wiring Protection ..... Standard
Internal Fault Protection ..... Standard
Common External Fault Capability ..... Standard
Governor Failure Protection ..... Standard

48 kW available accessories

Model #	Product	Description
G0071690	Mobile Link® 4G LTE Cellular Accessory	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Kit, Adapter Mobile Link L/C (Required for QT and RG Series)	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link®
G007992-0	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G007990-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G005703-0 - Bisque	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G007991-0	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G007993-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0(100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. They manage large electrical loads upon startup and shed them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
A0000018981	Ultrasonic Cleaner Solution	An ultra-concentrated anti-corrosive cleaning solution engineered to reach the smallest cavities to clean the toughest contaminants. This water based formula is non-toxic, biodegradable, safe for both metal and plastic surfaces and is superior in rinsability.
A0000019001	Corrosion Inhibitor & Protectant	A plastic, rubber, leather, and vinyl surface protectant designed for use following a thorough cleaning with the **A0000018981** Ultrasonic Cleaner Solution. It helps protected surfaces stay clean longer as a dry lubrication, polish, and wax. Aids in snow and grass release and odor control.

48 kW

Drawing #A0000293718-C (1 of 2)

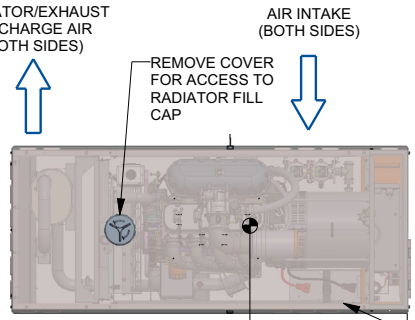
WEIGHT DATA				
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]	SHIPPING WEIGHT KG [LBS]
4.5L/48KW	AL	808 [1781]	51 [112]	859 [1893]

SERVICE ITEM	4.5L
OIL FILL CAP	LEFT SIDE
OIL DIP STICK	LEFT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	RIGHT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
BATTERY	LEFT SIDE

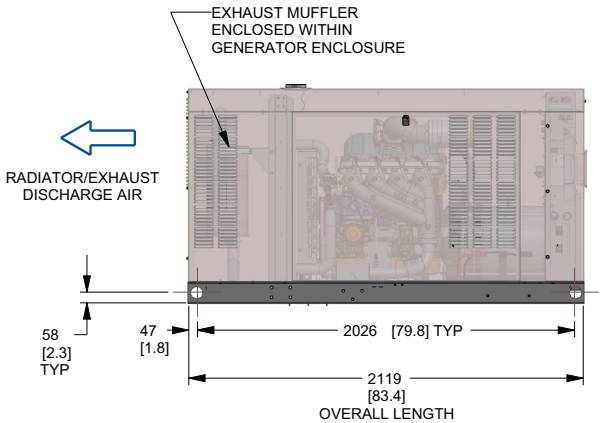
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PARTS LIST

NOTES:

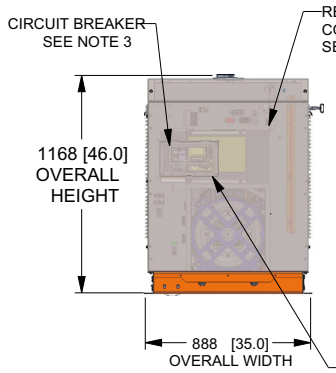
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE IS 6" OFFSET OF OVERALL LENGTH AND WIDTH OF GENERATOR. {1193.8 (47") WIDE X 2423.2 (95.4") LONG}. REFERENCE INSTALLATION GUIDE SUPPLIED WITH THE UNIT FOR CONCRETE PAD GUIDELINES. REFERENCE MANUFACTURER'S SPECIFICATIONS IF USING ENGINEERED, PREFABRICATED SLABS.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
   - SEE SPECIFICATION SHEET OR OWNERS MANUAL
   - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
4. REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
   - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
   - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
9. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
11. EXHAUST MUFFLER ENCLOSED WITHIN GENERATOR ENCLOSURE, REMOVE FRONT PANEL TO ACCESS.



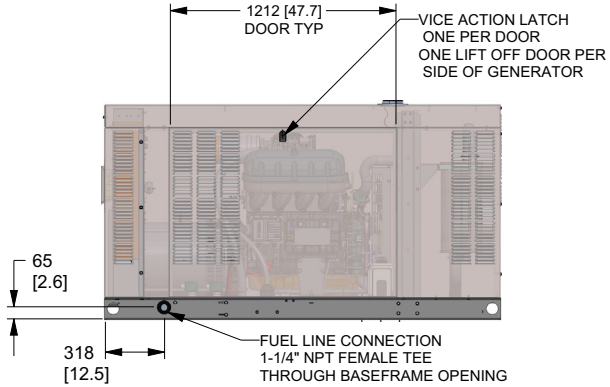
TOP VIEW



LEFT SIDE VIEW



REAR VIEW



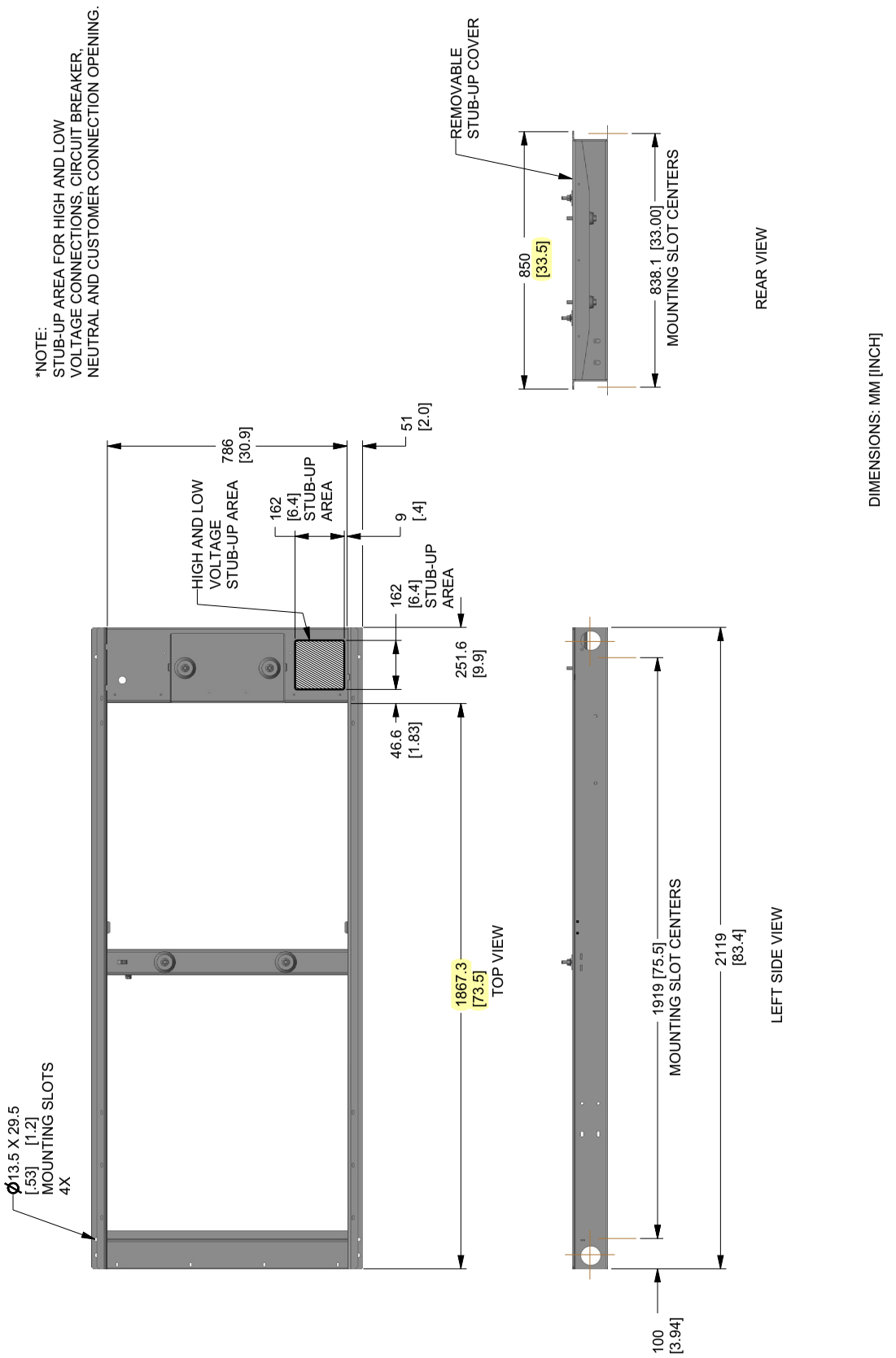
RIGHT SIDE VIEW

DIMENSIONS: MM [INCH]

installation layout

GENERAC®

Drawing #A0000293718-C (2 of 2)

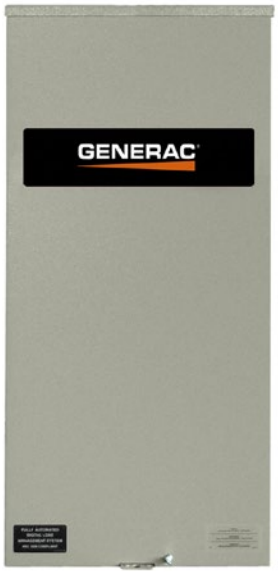


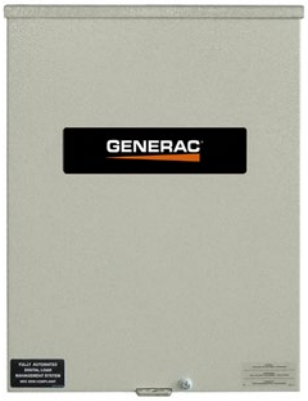
TRI-COUNTY, BIG PINE, STATHAM HALL
400A, 120/240V, SINGLE PHASE

Automatic Transfer Switches

Service and non-Service rated Automatic Smart Transfer Switches

100 - 400 Amps, Single Phase





c UL us LISTED

USA ENGINEERED & BUILT*

*Built in the USA using domestic and foreign parts

*CUL only applies to non-service rated switches

Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution™ or Nexus™ Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in a service rated equipment configuration.

Standard Features

Service rated (RTSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a 5 year limited warranty.

* Non-service rated (RTSC) switches are housed in a steel enclosure.

DPM Technology

Through the use of digital power technology (DPM), these switches have the capability to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with Smart Management Modules, up to 8 more loads can be managed as well, providing the most installation efficient power management options available.

GENERAC®

100-400 Amps, Single Phase — Automatic Smart Transfer Switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out ..... <60%
Timer to generator start ..... 10 second factory set, adjustable between 2-1500 seconds by a qualified dealer*
Engine warm up delay ..... 5 seconds
Standby voltage sensor ..... 60% for 5 seconds
Utility voltage pickup ..... >80%
Re-transfer time delay ..... 15 seconds
Engine cool-down timer ..... 60 seconds
Exerciser ..... 12 minutes every 7 days

The transfer switch can be operated manually without power applied.

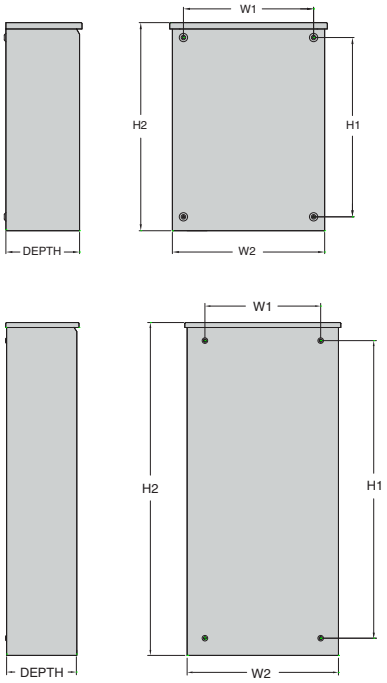
*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Amps	100	100	150	200	200	300	400	400
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
Enclosure Type	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UL	UL	UL/CUL	UL	UL	UL/CUL	UL
Withstand Rating (Amps)	10,000	10,000	22,000	10,000	22,000	22,000	22,000	22,000
Lug Range	1/0 - #14		250 MCM - #6			600 MCM - #4 or 1/0 - 250 MCM		

Dimensions

Model		RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Height (in./mm)	H1	17.24/437.9	17.24/437.9	26.75/679.4	17.24/437.9	26.75/679.4	42.91/1089.9	31.25/793.8	42.91/1089.9
	H2	20/508	20/508	30/762	20/508	30/762	48/1219.2	36/914.4	48/1219.2
Width (in./mm)	W1	12.5/317.5	12.5/317.5	10.5/266.7	12.5/317.5	10.5/266.7	16.69/423.9	19.18/487.2	16.69/423.9
	W2	14.6/370.8	14.6/370.8	13.5/342.9	14.6/370.8	13.5/342.9	21.82/554.2	24/609.6	21.82/554.2
Depth (in./mm)		7.09/180.1	7.09/180.1	6.3/160.1	7.09/180.1	6.3/160.1	10.06/255.5	10.06/255.5	10.06/255.5
Weight (lbs./kilos)		20/9.07	22.5/10.21	39/17.69	20/9.07	39/17.69	140/63.5	133/60.33	140/63.5



Venue #3 – Courthouse, 168 N Edwards Street, Independence, CA

This scope of work includes all work necessary, whether reflected in this scope of work or not, to complete the installation of a Generac RG048 48 kW, 3 Phase generator and Generac 200 Amp automatic transfer switch (ATS), both of which will be provided by Inyo County Public Works.

This scope of work involves the sawcutting, removal, and offhaul of asphalt of the same shape as the 8" concrete pad, excavation for a concrete generator pad, formwork, rebar, concrete materials, concrete placement and finishing, concrete blankets for subgrade and concrete frost protection, tapping into and piping from the existing propane line including furnishing and installing a propane regulator, setting of the generator on the concrete pad including any crane costs, installation of surface mounted conduit for generator power, battery charger circuit, and control wiring, interception of the existing subfeed from main breaker to distribution panel and the installation of the automatic transfer switch. Contractor is responsible for the design of all work, and must submit a plan, single line drawing, and product data sheets with respect to conduit size and material, conduit routing, conductor and breaker sizing, grounding or bonding, etc. for approval by the Building Official and the County Engineer prior to commencing work.


Courthouse Generator Location
168 N Edwards Street, Independence, CA
Courthouse Generator Site
N Edwards St
E Market St
W Center St
Google Earth
200 ft
N


CH LV HSP
CH:LV I
1ST FLOOR - JUDGES OFFICE MAIN
CH:LV 5
RECORDER - MAIN
CH:LV 4
AUDITOR - MAIN
CH:LV 6
3RD FLOOR - MAIN
CH:LV 3
TREASURER/TAX COLLECTOR - MAIN
K LIGHTS


TO THE OCEANS
TO THE PRAIRIES...
FROM ABOVE
GOD BLESS AMERICA
MY HOME SWEET HOME!
CH-LV5

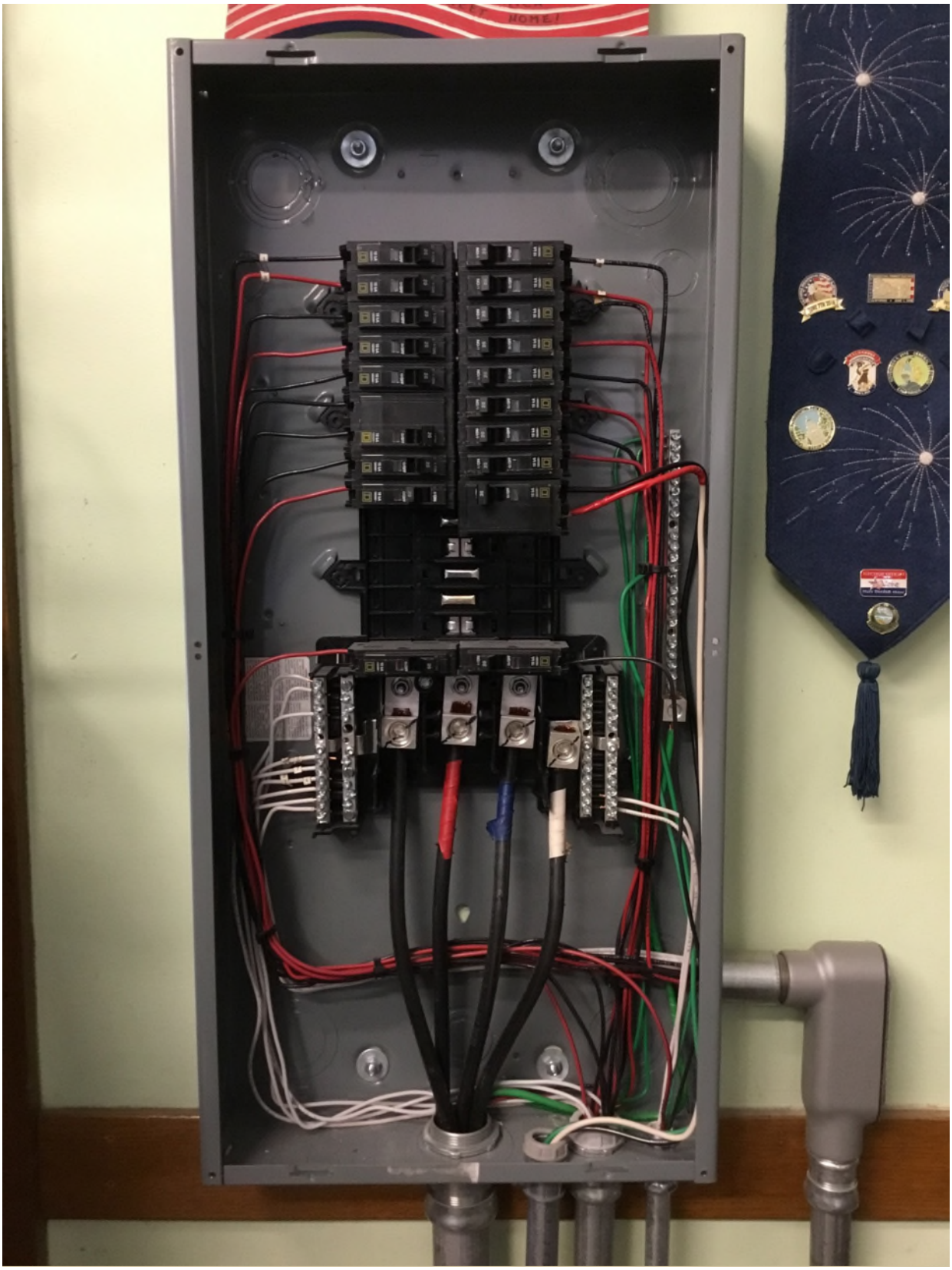
PANEL: CH LV-5						VOLTAGE: 120/208		
LOCATION: Recorders office						TYPE: Square D QO		
AIC RATING: 10,000						PHASE: 3	WIRE: 4	
	BREAKER				BREAKER			
DESCRIPTION	T	POLE	#	#	POLE	T	DESCRIPTION	
Right hand Duplex in Quad below panel	20	1	1	2	1	20	Left hand Duplex in Quad below panel	
/			3	4			/	
/			5	6			/	
/ SPACE			7	8			/ SPACE	
/			9	10			/	
/			11	12			/	
/			13	14	2	20	Water Heater in Recorders office	
South wall Receptacles wiremold	20		15	16	2	20	Lunch room Recep. East wall	
south wall Receptacles wiremold	/		17	18	2	20	N.E. office wire mold receptacle/court Ft room	
RECP. COURT RM SE WALL			19	20	2	20	N.E. office wire mold receptacle/court Ft room	
RECP. COURT. RM NE WALL			21	22	/	/	Quad northwall/northwest office + window cooler	
Lunch room Recep. west wall			23	24			Quad recep. west wall north office	
East wall Quad north of window			25	26			Duplex recep. west wall by window Sensors	
Duplex by Doorway/Fridge			27	28			Quad recep. south wall Recorder	
3/4" Emt south into north office ?	20		29	30	20	20	Quad recep. south wall Recorder	
			31	32				
			33	34				
			35	36				
			37	38				
			39	40				
			41	42				

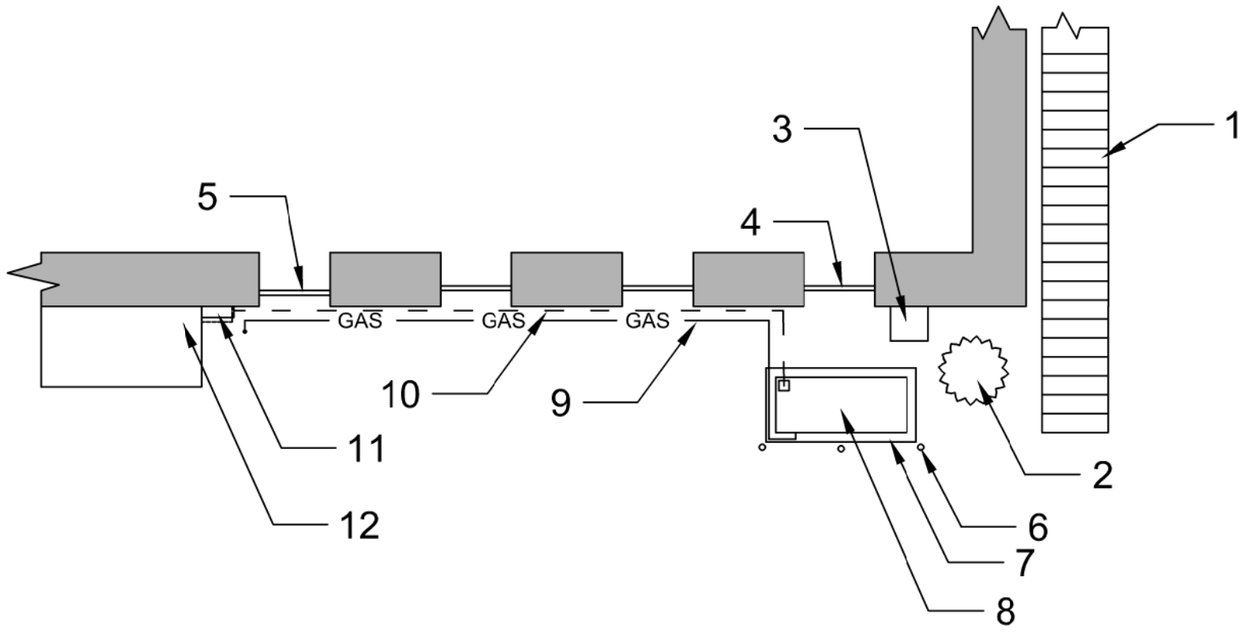
Feed From CH-LV-HSP

BUSS RATING 225	
MAIN CB RATING 100A	
MOUNTING surface	

AMP TEST

BL – 3.5
R .7
BLK .6
W 2.8





LEGEND

1. Stairway (E)
2. Tree (E)
3. Electrical box (E)
4. Window, typical (E) - Secure closed within 10' of generator exhaust
5. Mechanical Room louver (E)
6. 4" Pipe Bollard, 3 Each (N)
7. Concrete generator pad (N)
8. Generac RG48 generator (N) - County furnished, Contractor Installed
9. Above-grade propane line w/ pressure regulator (N) - bolted to wall below windows
10. Generator power circuit, block heater & battery charger circuits, & control wire circuits (N) - bolted to wall below windows
11. Automatic Transfer Switch (N) - County furnished, Contractor installed
12. Panel CH-LV5 subfeed breaker

Inyo County Courthouse
General Arrangement Layout

Inyo County Public Works
Design: GLW 10/20/2020
Scale: $\frac{1}{8}$" = 1' - 0", @ 11" x 17"

Protector® Series

GENERAC®

PROTECTOR® SERIES

Standby Generators

Liquid-Cooled Gaseous Engine

Courthouse, RG48KW

INCLUDES:

- Two-Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/ Portuguese) With External Viewing Window for Easy Indication of Generator Status and Breaker Position.
- SwRI® listed (NFPA37, clause 4.1.4.1.2) Generator can be installed a minimum 18" distance from combustible walls*
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Field Convertible Fuel Type With No Mechanical Adjustment Required.
- 5 Year Limited Warranty
- UL 2200 Listed

*Only if located away from doors, windows, and fresh air intakes, and unless otherwise directed by local codes. Please review install guide for more details.

Standby Power Rating

Model RG048 (Aluminum - Bisque) - 48 kW 60 Hz

*Assembled in the USA using domestic and foreign parts

QUIET TEST™

Meets EPA Emission Regulations

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ **PROTOTYPE TESTED**
  - ✓ **SYSTEM TORSIONAL TESTED**
  - ✓ **NEMA MG1-22 EVALUATION**
  - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.

GENERAC®

48 kW

application & engineering data

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	F (48 kW)
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct

ENGINE SPECIFICATIONS: 48 kW

Make	Generac
Model	Inline 4 cylinder
Cylinders	4
Displacement (Liters)	4.5
Bore (in/mm)	4.5/114.3
Stroke (in/mm)	4.25/107.95
Compression Ratio	9.9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full Flow Spin-On Cartridge
Crankcase Capacity (qt/l)	11.6/11 (48 kW)

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ENGINE COOLING SYSTEM

Type	Ethylene Glycol 50/50 Mix
Water Pump	Belt-Driven
Fan Speed (rpm)	2,100
Fan Diameter (in/mm)	20
Fan Mode	Pusher

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2.5 Amp
Recommended Battery (battery not included)	Group 27F (48kW), 725CCA
System Voltage	12 Volts

FUEL SYSTEM

Fuel Type	Natural Gas, Propane Vapor
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	3.5-14 Water Column/9-26 mm HG
LP Fuel Pressure	7 - 14" Water Column
NG Fuel Pressure	3.5 - 14" Water Column

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
Class F insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

48 kW

operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
RG048	120/240 V, 1Ø, 1.0 pf	48	200	48	200	200
	120/208 V, 3Ø, 0.8 pf	48	167	48	167	175
	120/240 V, 3Ø, 0.8 pf	48	144	48	144	150
	277/480 V, 3Ø, 0.8 pf	48	72	48	72	80

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
RG048	120/240 V, 1Ø	100	300
	120/208 V, 3Ø	118	242
	120/240 V, 3Ø	97	189
	277/480 V, 3Ø	63.6	122.8

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(ft^3/hr)	(l/hr)
RG048	Exercise cycle	—	—	—	—	—
	25% of rated load	201	5.7	2.88	104.7	10.9
	50% of rated load	336	9.5	4.16	151.3	15.7
	75% of rated load	447	12.7	5.28	192	20
	100% of rated load	604	17.1	6.61	240.4	25

Note: **Fuel pipe must be sized for full load.**

For Btu content, multiply ft^3/hr x 2520 (LP) or ft^3/hr x 1000 (NG)

For megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG)

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

GENERAC®

48 kW operating data

ENGINE COOLING

	48 kW
Air Flow (inlet air including alternator and combustion air in cfm/cmm)	2,829/80.1
System Coolant Capacity (gal/liters)	2.9/11
Heat Rejection to Coolant (BTU per hr/MJ per hr)	201,060
Maximum Operation Air Temperature on Radiator (°C/°F)	60/150
Maximum Ambient Temperature (°C/°F)	50/140

COMBUSTION REQUIREMENTS

Flow at Rated Power (scfm/cmm)	92.7/2.6

SOUND EMISSIONS

Sound Output in dB(A) at 23 ft (7 m) With Generator in Exercise Mode*	68
Sound Output in dB(A) at 23 ft (7 m) With Generator Operating at Normal Load*	70

EXHAUST

Exhaust Flow at Rated Output (scfm/cmm)	104/10.6
Exhaust Temperature at Muffler Outlet (°C/°F)	507/945

ENGINE PARAMETERS

Rated Synchronous rpm	1,800

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
Altitude Deration ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft

CONTROLLER FEATURES

Two-Line Plain Text LCD Display ..... Simple user interface for ease of operation.
Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser
Off ..... Stops unit. Power is removed. Control and charger still operate.
Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable Start Delay Between 10-30 Seconds ..... 10 sec standard
Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up ..... 5 sec
Engine Cool-Down ..... 1 min
Starter Lock-Out. ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger ..... Standard
Automatic Voltage Regulation With Over and Under Voltage Protection ..... Standard
Automatic Low Oil Pressure Shutdown ..... Standard
Overspeed Shutdown ..... Standard, 72 Hz
High Temperature Shutdown ..... Standard
Overcrank Protection ..... Standard
Safety Fused ..... Standard
Failure to Transfer Protection ..... Standard
Low Battery Protection ..... Standard
50 Event Run Log ..... Standard
Future Set Capable Exerciser ..... Standard
Incorrect Wiring Protection ..... Standard
Internal Fault Protection ..... Standard
Common External Fault Capability ..... Standard
Governor Failure Protection ..... Standard

48 kW available accessories

Model #	Product	Description
G0071690	Mobile Link® 4G LTE Cellular Accessory	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Kit, Adapter Mobile Link L/C (Required for QT and RG Series)	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link®
G007992-0	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G007990-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G005703-0 - Bisque	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G007991-0	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G007993-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0(100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. They manage large electrical loads upon startup and shed them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
A0000018981	Ultrasonic Cleaner Solution	An ultra-concentrated anti-corrosive cleaning solution engineered to reach the smallest cavities to clean the toughest contaminants. This water based formula is non-toxic, biodegradable, safe for both metal and plastic surfaces and is superior in rinsability.
A0000019001	Corrosion Inhibitor & Protectant	A plastic, rubber, leather, and vinyl surface protectant designed for use following a thorough cleaning with the **A0000018981** Ultrasonic Cleaner Solution. It helps protected surfaces stay clean longer as a dry lubrication, polish, and wax. Aids in snow and grass release and odor control.

48 kW

Drawing #A0000293718-C (1 of 2)

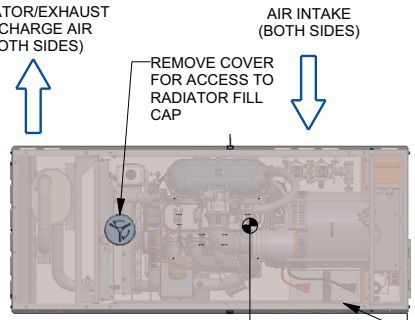
WEIGHT DATA				
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]	SHIPPING WEIGHT KG [LBS]
4.5L/48KW	AL	808 [1781]	51 [112]	859 [1893]

SERVICE ITEM	4.5L
OIL FILL CAP	LEFT SIDE
OIL DIP STICK	LEFT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	RIGHT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
BATTERY	LEFT SIDE

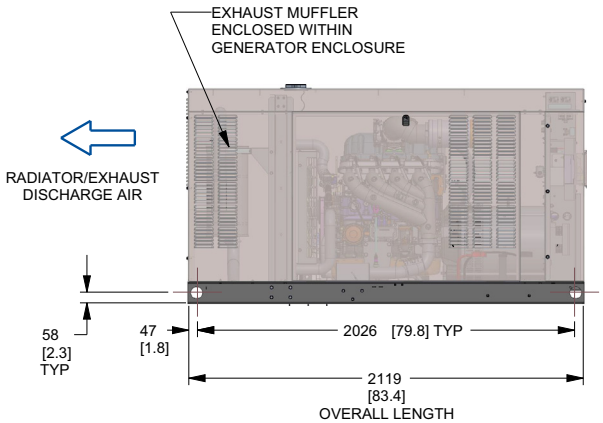
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PARTS LIST

NOTES:

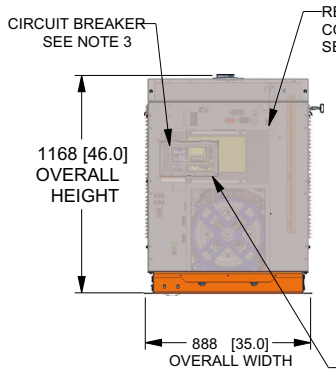
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE IS 6" OFFSET OF OVERALL LENGTH AND WIDTH OF GENERATOR. {1193.8 (47") WIDE X 2423.2 (95.4") LONG}. REFERENCE INSTALLATION GUIDE SUPPLIED WITH THE UNIT FOR CONCRETE PAD GUIDELINES. REFERENCE MANUFACTURER'S SPECIFICATIONS IF USING ENGINEERED, PREFABRICATED SLABS.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
   - SEE SPECIFICATION SHEET OR OWNERS MANUAL
   - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
4. REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
   - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
   - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
9. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
11. EXHAUST MUFFLER ENCLOSED WITHIN GENERATOR ENCLOSURE, REMOVE FRONT PANEL TO ACCESS.



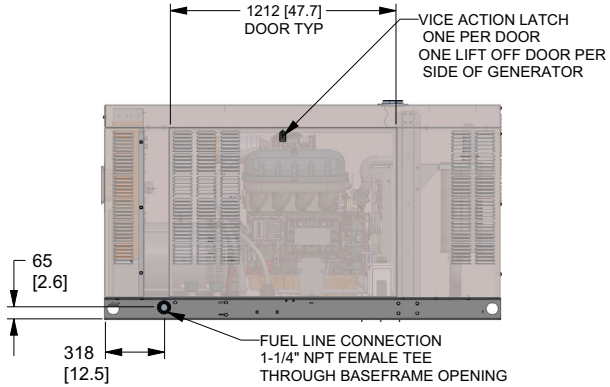
TOP VIEW



LEFT SIDE VIEW



REAR VIEW



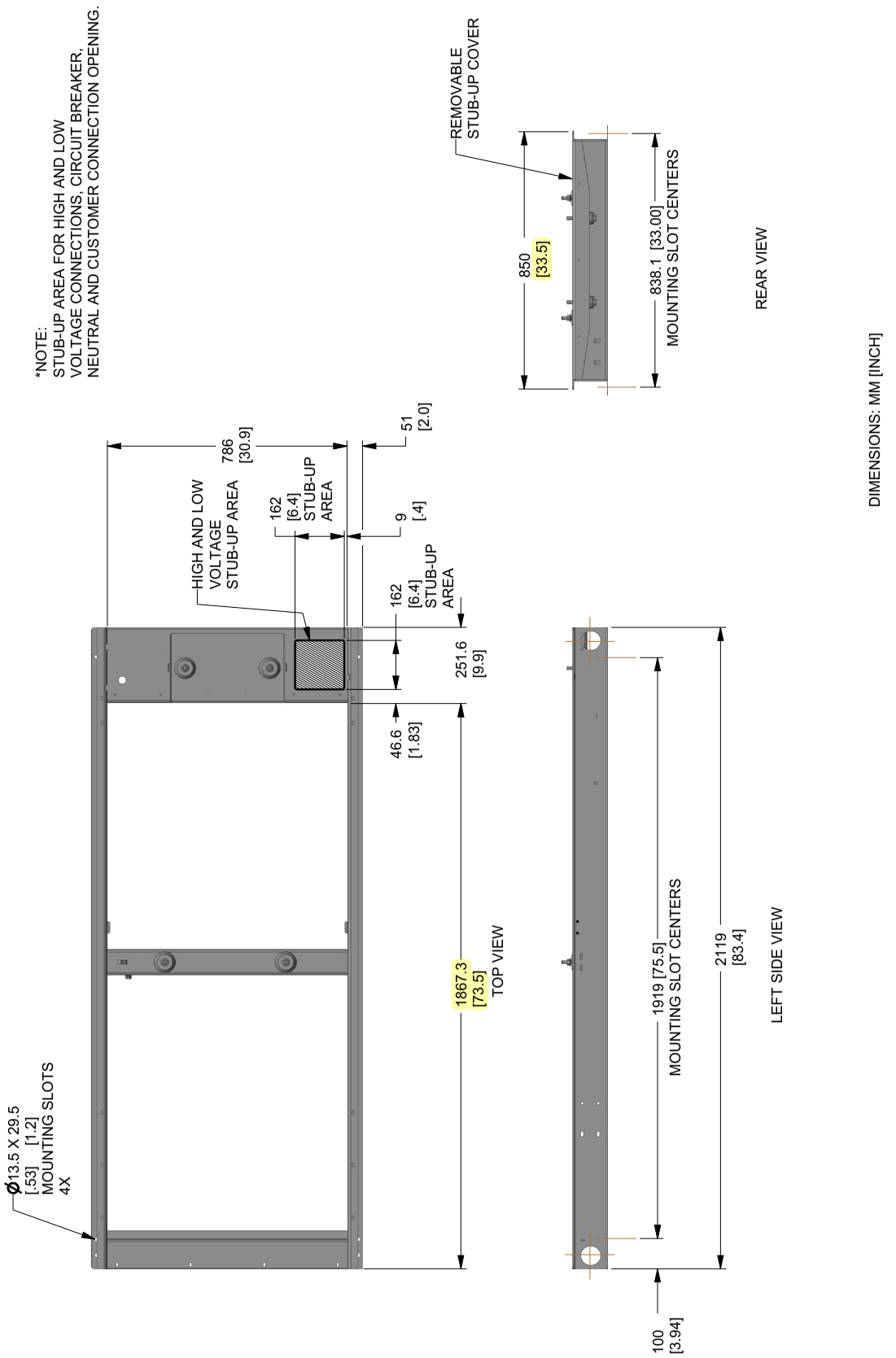
RIGHT SIDE VIEW

DIMENSIONS: MM [INCH]

installation layout

GENERAC®

Drawing #A0000293718-C (2 of 2)



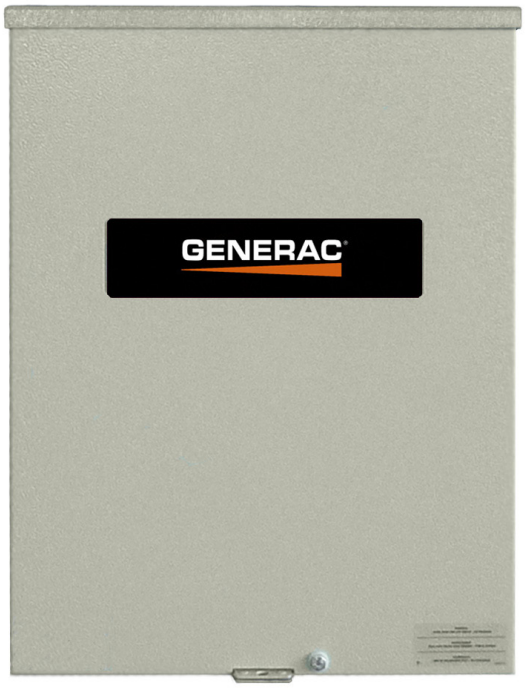
COURTHOUSE
200A, 120/208V, 3 PHASE

100-400 Amps

GENERAC®

Non-Service Rated
Automatic Transfer Switches

100 - 400 Amps, Three Phase



c UL us LISTED

USA ENGINEERED & BUILT

DESCRIPTION

All non-service rated switches are available in 120/208 3ø, 120/240 3ø, and 277/480 3ø. All switches are open transition.

STANDARD FEATURES

All non-service rated transfer switches are housed in a steel NEMA/UL Type 3R enclosure, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands.

GENERAC

100-400 Amps — Non-Service Rated Transfer Switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out ..... <60%
Timer to generator start ..... 10 second factory set, adjustable between 10-30 seconds
Engine warm up delay ..... 5 seconds
Standby voltage sensor ..... 60% for 5 seconds
Utility voltage pickup ..... >80%
Re-transfer time delay ..... 15 seconds
Engine cool-down timer ..... 60 seconds
Exerciser ..... 12 minutes every 7 days*

**Function of the controller*

The transfer switch can be operated manually without power applied.

Specifications

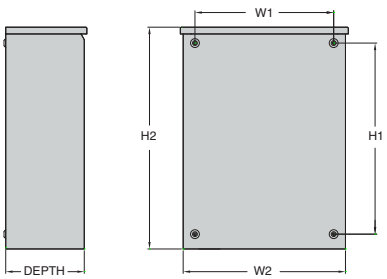
Model	RTSN100G3	RTSN100J3	RTSN100K3	RTSN200G3	RTSN200J3	RTSN200K3	RTSN400G3	RTSN400J3	RTSN400K3
Amps	100			200			400		
Voltage	120/208 3Ø	120/240 3Ø	277/480 3Ø	120/208 3Ø	120/240 3Ø	277/480 3Ø	120/208 3Ø	120/240 3Ø	277/480 3Ø
Load Transition Type (Automatic)	Open Transition								
Enclosure Type	NEMA 3R								
Withstand Rating (Amps)	14,000	14,000	14,000	25,000	25,000	25,000	35,000	35,000	35,000
Lug Range	2/0 - #6			400 MCM - #4			600 MCM - #4 or 1/0 - 250 MCM		

Features

- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 160 millisecond transfer time.
- Single coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R (indoor/outdoor rated) steel enclosure is standard.
- Limited Five Year Warranty.

Dimensions

Model	Height (in./mm)		Width (in./mm)		Depth (in./mm)	Weight (lbs./kilos)
	H1	H2	W1	W2		
RTSN100G3	19.3/490.2	24.1/612.1	16.9/429.3	20.2/513.1	7.1/180.3	65/29.48
RTSN100J3	19.3/490.2	24.1/612.1	16.9/429.3	20.2/513.1	7.1/180.3	57/25.85
RTSN100K3	31.3/795	36.1/916.9	19.2/487.7	24/609.6	10/254	135/61.24
RTSN200G3	19.3/490.2	24.1/612.1	16.9/429.3	20.2/513.1	7.1/180.3	48/21.77
RTSN200J3	19.3/490.2	24.1/612.1	16.9/429.3	20.2/513.1	7.1/180.3	65/29.48
RTSN200K3	43/1092.2	48.1/1221.7	25/635	30.1/764.5	13.1/332.7	105/47.63
RTSN400G3	31.3/795	36.1/916.9	19.2/487.7	24/609.6	10/254	160/72.57
RTSN400J3	31.3/795	36.1/916.9	19.2/487.7	24/609.6	10/254	133/60.33
RTSN400K3	43/1092.2	48.1/1221.7	25/635	30.1/764.5	13.1/332.7	133/60.33



Venue #4 – Annex Building, 168 N Edwards Street, Independence, CA

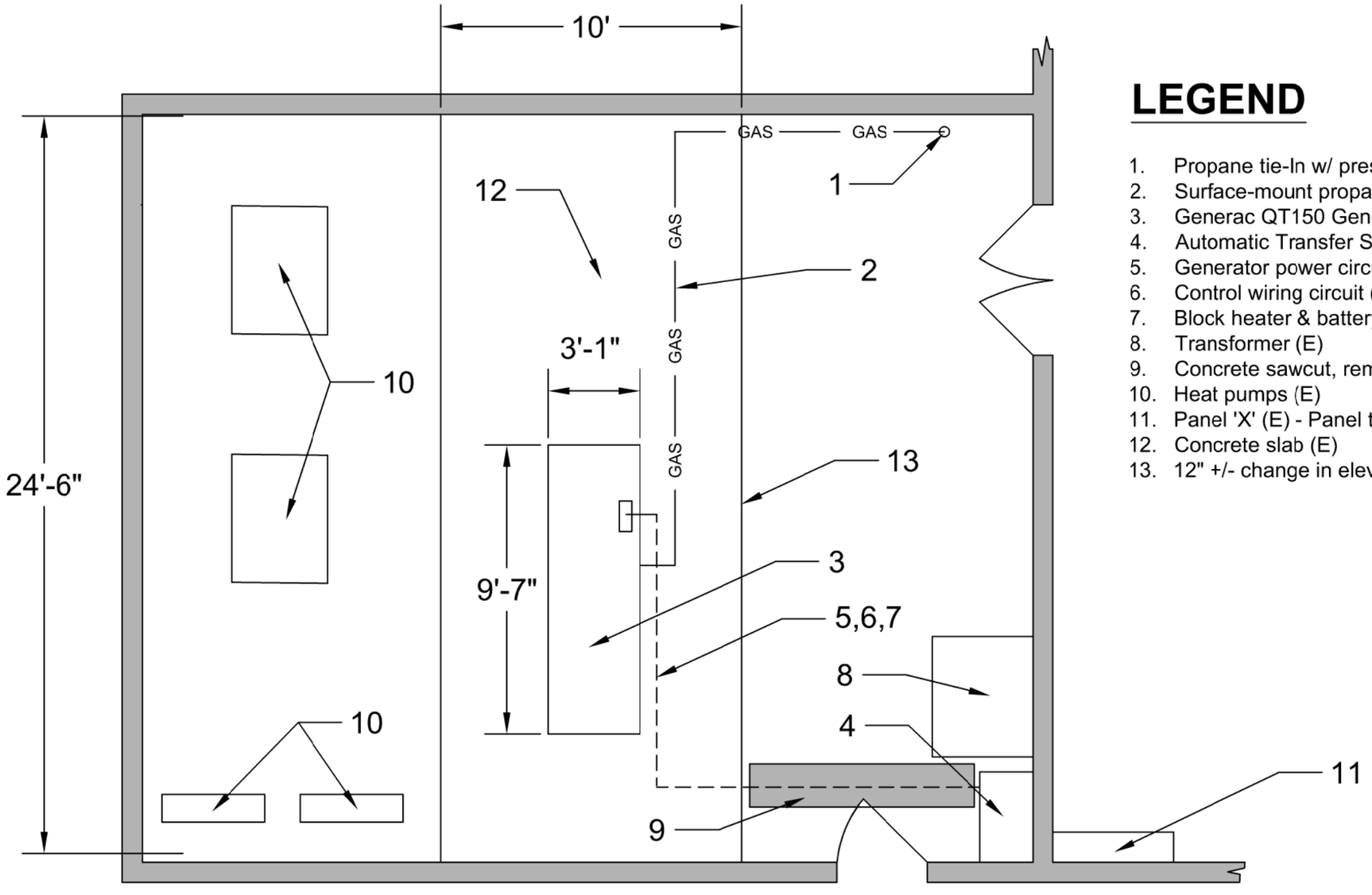
This scope of work includes all work necessary, whether reflected in this scope of work or not, to complete the installation of a Generac QT150 150 kW, 3 Phase generator and Generac 600 Amp automatic transfer switch (ATS), both of which will be provided by Inyo County Public Works.

This scope of work involves the sawcutting and removal of concrete as required for conduit runs from the ATS to the generator, pouring back concrete from areas removed, concrete blankets for subgrade and concrete frost protection, tapping into and piping from the existing propane line including furnishing and installing a propane regulator, setting of generator on concrete pad including any crane costs, installation of below grade and surface mounted conduit for generator power, battery charger circuit, block heater circuits, data conduit, and control wiring, interception of the existing subfeed from the transformer to Panel X, and the installation of the automatic transfer switch. Contractor is responsible for the design of all work, and must submit a plan, single line drawing, and product data sheets with respect to conduit size and material, conduit routing, conductor and breaker sizing, grounding or bonding, etc. for approval by the Building Official and the County Engineer prior to commencing work.


Annex Generator Location
188 N Edwards Street, Independence, CA
395
N Edwards St
Annex Building Generator Site
E Market St
W Center St
Google Earth
200 ft
N


MOEN


WARNING



LEGEND

1. Propane tie-In w/ pressure regulator (N)
2. Surface-mount propane line (N)
3. Generac QT150 Generator (N) - County Furnished, Contractor Installed
4. Automatic Transfer Switch (N) - County Furnished, Contractor Installed
5. Generator power circuit (N)
6. Control wiring circuit (N)
7. Block heater & battery charger circuit (N)
8. Transformer (E)
9. Concrete sawcut, removal, and pour back (N)
10. Heat pumps (E)
11. Panel 'X' (E) - Panel to be powered by Automatic Transfer Switch
12. Concrete slab (E)
13. 12" +/- change in elevation (E)

Annex Building
General Arrangement Layout

Inyo County Public Works
Design: GLW 10/20/2020
Scale: 1/4" = 1' - 0", @ 11" x 17"

Standby Generators

GENERAC®

Standby Generators
Liquid-Cooled Gaseous Engine

INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus™ Controller
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating

Model QT070 (Aluminum - Bisque) - 70 kW 60 Hz
Model QT080 (Aluminum - Bisque) - 80 kW 60 Hz
Model QT100 (Aluminum - Bisque) - 100 kW 60 Hz
Model QT130 (Aluminum - Bisque) - 130 kW 60 Hz
Model QT150 (Aluminum - Bisque) - 150 kW 60 Hz

c UL us LISTED

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

QUIET TEST™

Meets EPA Emission Regulations
70, 100, 130 & 150 kW meet CA/MA emissions requirement with optional catalyst
80 kW not for sale in CA/MA

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.

- **TEST CRITERIA:**
  - √ PROTOTYPE TESTED
  - √ SYSTEM TORSIONAL TESTED
  - √ NEMA MG1-22 EVALUATION
  - √ MOTOR STARTING ABILITY

- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.

- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC® ISO 9001:2008

GENERAC®

70 • 80 • 100 • 130 • 150 kW

application & engineering data

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire (70, 80 & 150 kW) or 12 wire (100 & 130 kW)
Bearings	Sealed Ball
Coupling	Flexible Disc (70, 80 & 150 kW) or Gear Drive (100 & 130 kW)
Excitation System	Brushless

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 24F, 525 CCA (70, 80 & 150 kW) or Group 27F, 700 CCA (100 & 130 kW)
System Voltage	12 Volts

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

ENGINE SPECIFICATIONS: 80 kW

Make	Generac
Model	V-Type
Cylinders	8
Displacement (Liters)	5.4
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE SPECIFICATIONS: 70, 100, 130 & 150 kW

Make	Generac
Model	V-Type
Cylinders	10
Displacement (Liters)	6.8
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/l)	5/4.7 (70, 100, 130 & 150 kW) or 6/5.7 (80 kW)

ENGINE COOLING SYSTEM

Type	Closed
Water Pump	Belt driven
Fan Speed (rpm)	2300 - 70 kW 2174 - 80 kW 1670 - 100 kW 1950 - 130 kW 2200 - 150 kW
Fan Diameter (in/mm)	22/558.8 (70 kW) or 26/660.4 (80, 100, 130 & 150 kW)
Fan Mode	Pusher (70 kW) or Puller (80, 100, 130 & 150 kW)

FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11-14" water column/21-26 mm HG

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
QT070	120/240 V, 1Ø, 1.0 pf	67	292	64	267	300
	120/208 V, 3Ø, 0.8 pf	70	243	67	232	300
	120/240 V, 3Ø, 0.8 pf	70	211	67	201	250
	277/480 V, 3Ø, 0.8 pf	70	105	67	101	125
QT080	120/240 V, 1Ø, 1.0 pf	77	333	77	333	400
	120/208 V, 3Ø, 0.8 pf	80	278	80	278	300
	120/240 V, 3Ø, 0.8 pf	80	241	80	240	300
	277/480 V, 3Ø, 0.8 pf	80	120	80	120	150
QT100	120/240 V, 1Ø, 1.0 pf	100	417	89	371	450
	120/208 V, 3Ø, 0.8 pf	100	347	94	326	400
	120/240 V, 3Ø, 0.8 pf	100	301	94	283	350
	277/480 V, 3Ø, 0.8 pf	100	150	94	141	175
QT130	120/240 V, 1Ø, 1.0 pf	130	542	117	488	600
	120/208 V, 3Ø, 0.8 pf	130	451	122	423	500
	120/240 V, 3Ø, 0.8 pf	130	391	122	367	450
	277/480 V, 3Ø, 0.8 pf	130	195	122	183	225
QT150	120/240 V, 1Ø, 1.0 pf	144	625	136	567	700
	120/208 V, 3Ø, 0.8 pf	150	520	142	493	600
	120/240 V, 3Ø, 0.8 pf	150	451	142	427	500
	277/480 V, 3Ø, 0.8 pf	150	225	142	214	250

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
QT070	120/240 V, 1Ø	129	356
	120/208 V, 3Ø	194	471
	120/240 V, 3Ø	168	408
	277/480 V, 3Ø	83	201
QT080	120/240 V, 1Ø	174	435
	120/208 V, 3Ø	186	466
	120/240 V, 3Ø	161	404
	277/480 V, 3Ø	70	175
QT100	120/240 V, 1Ø	150	413
	120/208 V, 3Ø	186	452
	120/240 V, 3Ø	161	392
	277/480 V, 3Ø	107	261
QT130	120/240 V, 1Ø	236	648
	120/208 V, 3Ø	364	885
	120/240 V, 3Ø	315	767
	277/480 V, 3Ø	161	390
QT150	120/240 V, 1Ø	486	1214
	120/208 V, 3Ø	534	1334
	120/240 V, 3Ø	463	1156
	277/480 V, 3Ø	250	624

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(l/hr)	(ft^3/hr)
QT070	Exercise cycle	110	3.1	1.2	4.6	44
	25% of rated load	260	7.4	2.85	10.8	104
	50% of rated load	500	14.2	5.46	20.8	200
	75% of rated load	696	19.8	7.62	29.1	280
	100% of rated load	1020	29	11.17	42.6	411
QT080	Exercise cycle	95	2.7	1.4	5.51	53
	25% of rated load	549.5	15.6	3.46	13.11	126
	50% of rated load	784.4	22.2	6.62	25.1	241
	75% of rated load	1024.8	29.0	9.24	34.96	336
	100% of rated load	1252.2	35.5	12.78	48.38	465
QT100	Exercise cycle	130	3.7	1.4	5.4	52
	25% of rated load	371	10.5	4.1	15.5	149
	50% of rated load	713	20.3	7.9	29.8	287
	75% of rated load	991	28.2	11	41.5	400
	100% of rated load	1260	35.8	13.9	52.6	507
QT130	Exercise cycle	135	3.8	1.4	5.7	55
	25% of rated load	482	13.7	5.3	20	193
	50% of rated load	927	26.3	10.3	38.7	373
	75% of rated load	1292	36.7	14.3	54	520
	100% of rated load	1786	50.8	19.8	74.6	719
QT150	Exercise cycle	155	4.4	1.7	6.5	63
	25% of rated load	556	15.8	6.09	23.2	224
	50% of rated load	1070	30.4	11.72	44.7	431
	75% of rated load	1491	42.4	16.33	62.3	600
	100% of rated load	2061	58.6	22.57	86.1	830

Note: **Fuel pipe must be sized for full load.**

For BTU content, multiply ft^3/hr x 2500 (LP) or ft^3/hr x 1000 (NG).

For Megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG).

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

ENGINE COOLING

	70 kW	80 kW	100 kW	130 kW	150 kW
Air flow (inlet air including alternator and combustion air in ft³/min)	5200/147.2	5300/150.1	5500/155.7	6450/182.6	7800/220.9
System coolant capacity (gal/liters)	4.5/17	4/15.1	4.5/17	4.5/17	4.5/17
Heat rejection to coolant (BTU/hr)	287,000/302.8	316,000/333.4	342,000/360.8	496,000/523.3	568,000/599.3
Maximum operation air temperature on radiator (°C/°F)	60/150				
Maximum ambient temperature (°C/°F)	50/140				

COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	205/5.8	143/4	262/7.4	336/9.5	410/11.6

SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	64	65	68	69	66
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	74	72	75	79

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm/cmm)	557/15.8	720/20.4	888/25.1	1119/31.7	1535/43.5
Exhaust temperature at muffler outlet (°C/°F)	477/890	796/1465	516/960	521/970	593/1100

ENGINE PARAMETERS

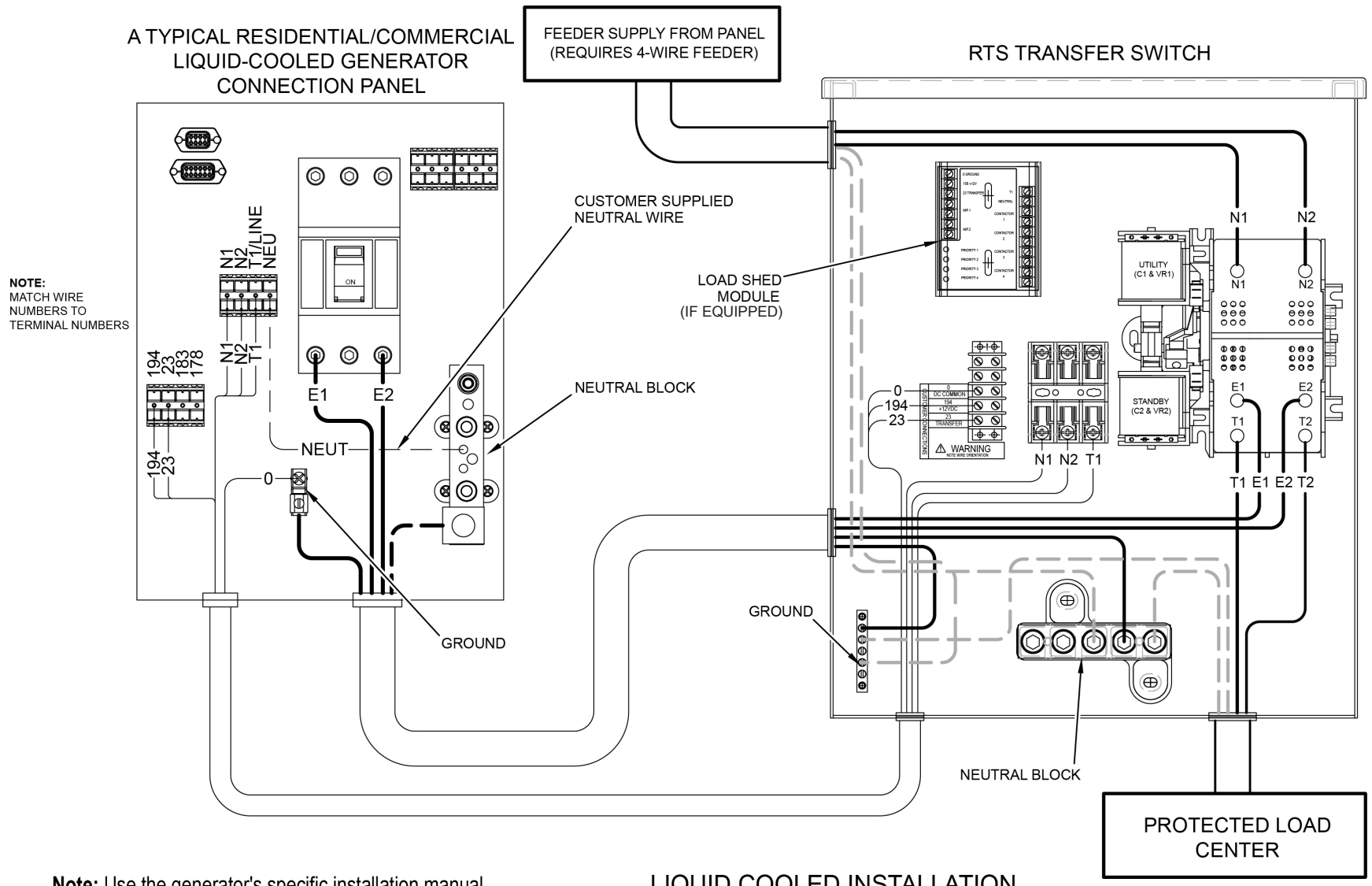
Rated Synchronous rpm	1800	3600	2300	2970	3600

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
Altitude Deration (70,100,130 & 150) ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft
Altitude Deration (80 kW) ..... 1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft

CONTROLLER FEATURES

2-Line Plain Text LCD Display ..... Simple user interface for ease of operation.
Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser
Off ..... Stops unit. Power is removed. Control and charger still operate.
Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 10-30 seconds ..... Standard 10 sec
Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up ..... 5 sec
Engine Cool-Down ..... 1 min
Starter Lock-out ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger ..... Standard
Automatic Voltage Regulation with Over and Under Voltage Protection ..... Standard
Automatic Low Oil Pressure Shutdown ..... Standard
Overspeed Shutdown ..... Standard, 72 Hz
High Temperature Shutdown ..... Standard
Overcrank Protection ..... Standard
Safety Fused ..... Standard
Failure to Transfer Protection ..... Standard
Low Battery Protection ..... Standard
50 Event Run Log ..... Standard
Future Set Capable Exerciser ..... Standard
Incorrect Wiring Protection ..... Standard
Internal Fault Protection ..... Standard
Common External Fault Capability ..... Standard
Governor Failure Protection ..... Standard



Note: Use the generator's specific installation manual and wiring diagrams to verify generator wiring connections, as they may differ slightly from illustration.

LIQUID COOLED INSTALLATION

WEIGHT DATA				
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT (GENSET ONLY) KG [LBS]	WEIGHT (WOODEN SHIPPING CRATE/SKID) KG [LBS]	SHIPPING WEIGHT (SKID AND GENSET) KG [LBS]
6.8L 100KW				
	ALUMINUM	1148 [2531]	79 [175]	1227 [2706]
6.8L 130KW				
	ALUMINUM	1224 [2699]	79 [175]	1303 [2874]
6.8L 150KW				
	ALUMINUM	1130 [2492]	79 [175]	1210 [2667]

NOTES:

1) MINIMUM RECOMENDED CONCRETE PAD SIZE: 1240(48.8") WIDE X 3230 (127.2") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2) ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.
3) CIRCUIT BREAKER INFORMATION: SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL.
4) INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (.5 AMP MAX.) CONNECTION, AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE FRONT COVER FOR ACCESS.

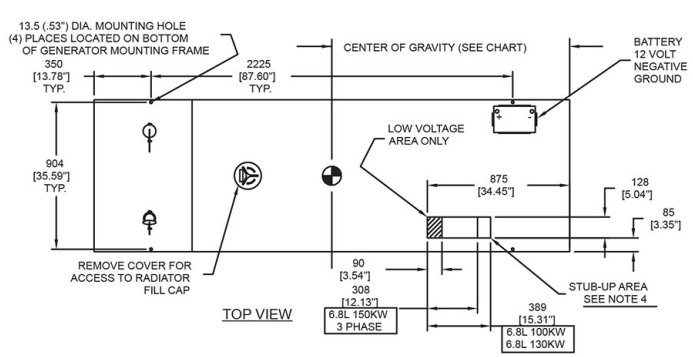
4A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.

5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLERS AND FAN BELT.

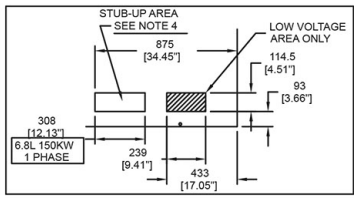
SERVICE ITEM ACCESSIBILITY CHART

SERVICE ITEM	ACCESS		
	100KW 6.8L	130KW 6.8L	150KW 6.8L
OIL FILL CAP	THRU RIGHT FRONT DOOR		
OIL DIP STICK	THRU LEFT FRONT DOOR		
OIL FILTER	THRU LEFT FRONT DOOR		
OIL DRAIN HOSE	THRU RIGHT FRONT DOOR		
RADIATOR DRAIN HOSE	THRU LEFT FRONT DOOR		
AIR CLEANER ELEMENT	EITHER FRONT DOORS		
SPARK PLUGS	BOTH FRONT DOORS		
MUFFLERS	SEE NOTE 6		
FAN BELT	SEE NOTE 6		
BATTERY	THRU RIGHT REAR DOOR		
*GEARBOX FILL & DRAIN	THRU RIGHT REAR DOOR		

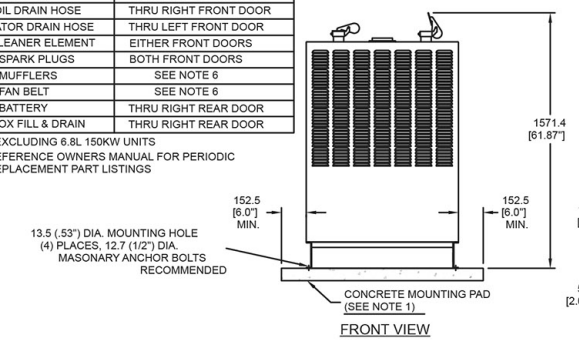
*NOTE: EXCLUDING 6.8L 150KW UNITS
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



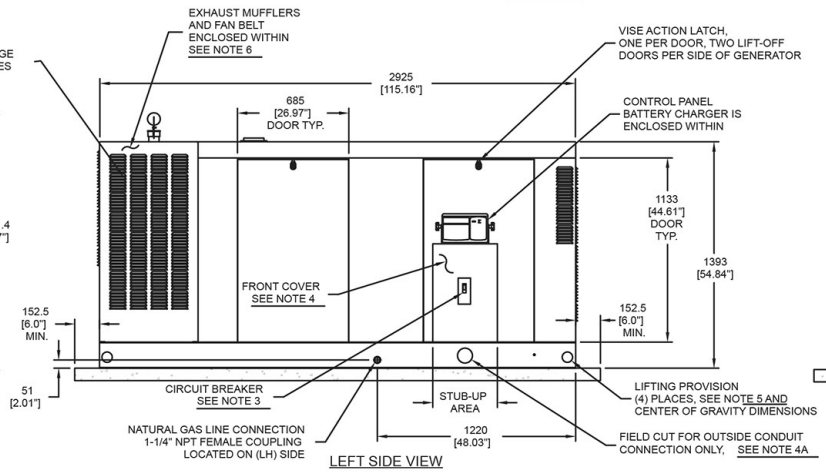
CENTER OF GRAVITY
1275 (50.2") - 100KW 6.8L
1230 (48.4") - 130KW 6.8L
1315 (51.8") - 150KW 6.8L



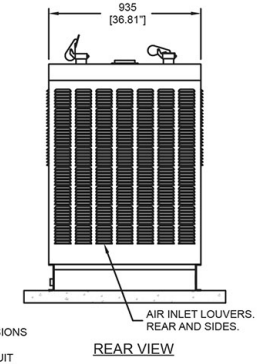
150KW SINGLE PHASE STUB-UP AREA



FRONT VIEW



LEFT SIDE VIEW



REAR VIEW

DIMENSIONS: MM [INCH]

600-800 Amps

Non-Service Rated
Automatic Transfer Switches

600 - 800 Amps, 1 and 3-phase

c UL us LISTED

USA ENGINEERED & BUILT*

*Built in the USA using domestic and foreign parts

DESCRIPTION

Generac 600-800 amp non-service rated switches are compatible with the full 22-150kW line of liquid-cooled generators. The switches are open transition and are available in 120/240 1ø, 120/208 3ø, 120/240 3ø, and 277/480 3ø.

STANDARD FEATURES

600-800 amp non-service rated transfer switches are housed in a rugged steel NEMA/UL Type 3R enclosure, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands.

GENERAC

600-800 Amps Non-Service Rated Smart Transfer Switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out ..... <60%
Timer to generator start ..... 10 second factory set, adjustable between 2-1500 seconds by a qualified dealer*
Engine warm up delay ..... 5 seconds
Standby voltage sensor ..... 60% for 5 seconds
Utility voltage pickup ..... >80%
Re-transfer time delay ..... 15 seconds
Engine cool-down timer ..... 60 seconds
Exerciser ..... 12 minutes every 7 days

The transfer switch can be operated manually without power applied.

*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RTSC600A3	RTSN600G3	RTSN600J3	RTSN600K3	RTSC800A3	RTSN800G3	RTSN800J3	RTSN800K3
Amps	600				800			
Voltage	120/240 1Ø	120/208 3Ø	120/240 3Ø	277/480 3Ø	120/240 1Ø	120/208 3Ø	120/240 3Ø	277/480 3Ø
Load Transition Type (Automatic)	Open Transition							
Enclosure Type	NEMA/UL 3R							
Withstand Rating (Amps)	42,000				65,000			
Lug Range	1/0 - 500 MCM				4/0 - 500 MCM			

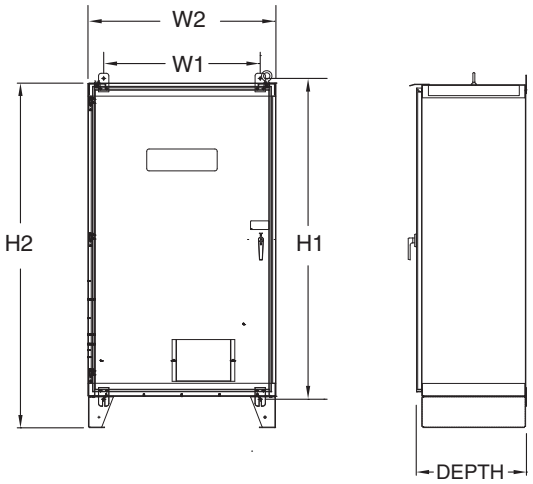
Features

- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 160 millisecond transfer time.
- Single coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R (indoor/outdoor rated) rugged steel enclosure is standard.
- Limited 5 Year Warranty.

Dimensions

Voltages*	Height (in./mm)		Width (in./mm)		Depth (in./mm)	Weight (lbs/kilos)
	H1	H2	W1	W2		
120/240 1Ø, 120/208 3Ø, 120/240 3Ø	61.4/1559.6	66/1676.4	30/762	36/914.4	21/533.4	337.5/153.09
277/480 3Ø	61.4/1559.6	66/1676.4	30/762	36/914.4	21/533.4	353.5/160.34

*Includes 600 & 800 amp switches.



GENERAC

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com

Venue #5 – Statham Hall, 138 N Jackson Street, Lone Pine, CA

This scope of work includes all work necessary, whether reflected in this scope of work or not, to complete the installation of a Generac QT100 100 kW, Single Phase generator and Generac 400 Amp automatic transfer switch (ATS), both of which will be provided by Inyo County Public Works.

This scope of work involves the demolition of the existing wood shed, protecting in-place the phone punch down block, excavation for an 8" thick concrete generator pad, formwork, rebar, concrete materials, concrete placement and finishing, concrete blankets for subgrade and concrete frost protection, tapping into the tank manifold, trenching and backfill, underground propane line, epoxy coated steel risers on each end, including furnishing and installing properly-sized propane regulators, both high to medium and medium to low pressure, setting of the generator on the concrete pad including any crane costs, installation of below grade and surface mounted conduit for generator power, battery charger circuit, block heater circuit, and control wiring, interception of the existing subfeed from main breaker to distribution panel, and the installation of the automatic transfer switch. Contractor is responsible for the design of all work, and must submit a plan, single line drawing, and product data sheets with respect to conduit size and material, conduit routing, conductor and breaker sizing, grounding or bonding, etc. for approval by the Building Official and the County Engineer prior to commencing work.


Statham Hall Generator Location
138 N Jackson Street, Lone Pine, CA
E Bush St
Statham Hall Generator Site
N Jackson St
N Lone Pine Ave
Google Earth
100 ft
N


X4


X4


ABB
DWP
SSB
1Φ-3W-120/240 V. AC
CIRCUIT BREAKER AUTOMATIC TRIP IS INDICATED BY HANDLE POSITION MIDWAY BETWEEN ON AND OFF. RESTORE SERVICE BY MOVING HANDLE TO OFF THEN ON.
FOR PARTS REFER TO SERIES NO. IN SERVICE BULLETIN NO. 2605
I-LINE
SWITCHBOARD
SQUARE D COMPANY
DEAD FRONT SWITCHBOARD SECTION
SQUARE D COMPANY
WARNING
HAZARD OF ELECTRIC SHOCK OR BURN
TURN OFF POWER BEFORE WORKING INSIDE THIS EQUIPMENT
ON
OFF
MAIN


CATALOG NUMBER
AMP.
SERIES
SSB
1ϕ-3W-120/240 V. AC
CIRCUIT BREAKER AUTOMATIC TRIP IS INDICATED BY HANDLE POSITION MIDWAY BETWEEN ON AND OFF. RESTORE SERVICE BY MOVING HANDLE TO OFF THEN ON.
FOR PARTS REFER TO SERIES NO. IN SERVICE BULLETIN NO. 2605
I-LINE®
SWITCHBOARD
SQUARE D COMPANY
MADE IN U.S.A.
Underwriters Laboratories Inc.
LISTED
DEAD FRONT SWITCHBOARD SECTION
SUITABLE FOR USE AS SERVICE EQUIPMENT
SQUARE D COMPANY
MADE IN U.S.A.
WARNING
HAZARD OF ELECTRIC SHOCK OR BURN
TURN OFF POWER BEFORE WORKING INSIDE THIS EQUIPMENT


ON
100
OFF
150
OFF
ON
100
OFF
S Facing
Panel
Lower Roof
Roof Heaters
Evap. Coolers
Kitchen Heat/Cooler
Trailer
Panel


Floor
Floor
timer
Floor
photo cell outside lights
Trailer Panel
STE WALL
ON
OFF
20
60


X4

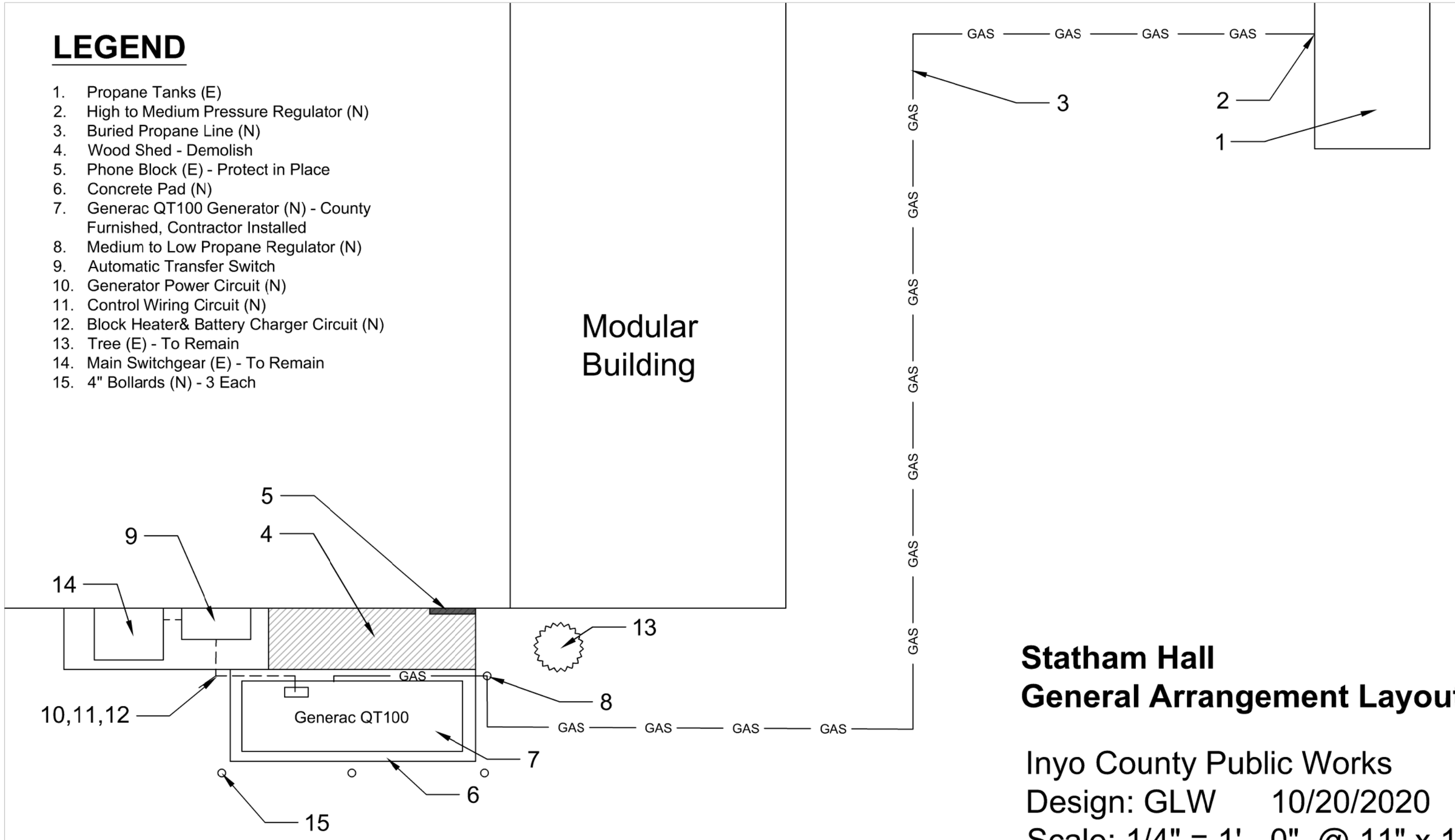

X4


192

LEGEND

1. Propane Tanks (E)
2. High to Medium Pressure Regulator (N)
3. Buried Propane Line (N)
4. Wood Shed - Demolish
5. Phone Block (E) - Protect in Place
6. Concrete Pad (N)
7. Generac QT100 Generator (N) - County Furnished, Contractor Installed
8. Medium to Low Propane Regulator (N)
9. Automatic Transfer Switch
10. Generator Power Circuit (N)
11. Control Wiring Circuit (N)
12. Block Heater& Battery Charger Circuit (N)
13. Tree (E) - To Remain
14. Main Switchgear (E) - To Remain
15. 4" Bollards (N) - 3 Each

Modular Building



Statham Hall
General Arrangement Layout

Inyo County Public Works
Design: GLW 10/20/2020
Scale: 1/4" = 1' - 0", @ 11" x 17"

Standby Generators

GENERAC®

Standby Generators
Liquid-Cooled Gaseous Engine

Statham Hall

INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus™ Controller
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating

Model QT070 (Aluminum - Bisque) - 70 kW 60 Hz
Model QT080 (Aluminum - Bisque) - 80 kW 60 Hz
Model QT100 (Aluminum - Bisque) - 100 kW 60 Hz
Model QT130 (Aluminum - Bisque) - 130 kW 60 Hz
Model QT150 (Aluminum - Bisque) - 150 kW 60 Hz

c UL us LISTED

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

QUIET TEST™

Meets EPA Emission Regulations
70, 100, 130 & 150 kW meet CA/MA emissions requirement with optional catalyst
80 kW not for sale in CA/MA

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.

- **TEST CRITERIA:**
  - √ PROTOTYPE TESTED
  - √ SYSTEM TORSIONAL TESTED
  - √ NEMA MG1-22 EVALUATION
  - √ MOTOR STARTING ABILITY

- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.

- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC® ISO 9001:2008

GENERAC®

70 • 80 • 100 • 130 • 150 kW

application & engineering data

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire (70, 80 & 150 kW) or 12 wire (100 & 130 kW)
Bearings	Sealed Ball
Coupling	Flexible Disc (70, 80 & 150 kW) or Gear Drive (100 & 130 kW)
Excitation System	Brushless

VOLTAGE REGULATION

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 24F, 525 CCA (70, 80 & 150 kW) or Group 27F, 700 CCA (100 & 130 kW)
System Voltage	12 Volts

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

ENGINE SPECIFICATIONS: 80 kW

Make	Generac
Model	V-Type
Cylinders	8
Displacement (Liters)	5.4
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE SPECIFICATIONS: 70, 100, 130 & 150 kW

Make	Generac
Model	V-Type
Cylinders	10
Displacement (Liters)	6.8
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/l)	5/4.7 (70, 100, 130 & 150 kW) or 6/5.7 (80 kW)

ENGINE COOLING SYSTEM

Type	Closed
Water Pump	Belt driven
Fan Speed (rpm)	2300 - 70 kW 2174 - 80 kW 1670 - 100 kW 1950 - 130 kW 2200 - 150 kW
Fan Diameter (in/mm)	22/558.8 (70 kW) or 26/660.4 (80, 100, 130 & 150 kW)
Fan Mode	Pusher (70 kW) or Puller (80, 100, 130 & 150 kW)

FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11-14" water column/21-26 mm HG

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
QT070	120/240 V, 1Ø, 1.0 pf	67	292	64	267	300
	120/208 V, 3Ø, 0.8 pf	70	243	67	232	300
	120/240 V, 3Ø, 0.8 pf	70	211	67	201	250
	277/480 V, 3Ø, 0.8 pf	70	105	67	101	125
QT080	120/240 V, 1Ø, 1.0 pf	77	333	77	333	400
	120/208 V, 3Ø, 0.8 pf	80	278	80	278	300
	120/240 V, 3Ø, 0.8 pf	80	241	80	240	300
	277/480 V, 3Ø, 0.8 pf	80	120	80	120	150
QT100	120/240 V, 1Ø, 1.0 pf	100	417	89	371	450
	120/208 V, 3Ø, 0.8 pf	100	347	94	326	400
	120/240 V, 3Ø, 0.8 pf	100	301	94	283	350
	277/480 V, 3Ø, 0.8 pf	100	150	94	141	175
QT130	120/240 V, 1Ø, 1.0 pf	130	542	117	488	600
	120/208 V, 3Ø, 0.8 pf	130	451	122	423	500
	120/240 V, 3Ø, 0.8 pf	130	391	122	367	450
	277/480 V, 3Ø, 0.8 pf	130	195	122	183	225
QT150	120/240 V, 1Ø, 1.0 pf	144	625	136	567	700
	120/208 V, 3Ø, 0.8 pf	150	520	142	493	600
	120/240 V, 3Ø, 0.8 pf	150	451	142	427	500
	277/480 V, 3Ø, 0.8 pf	150	225	142	214	250

SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
QT070	120/240 V, 1Ø	129	356
	120/208 V, 3Ø	194	471
	120/240 V, 3Ø	168	408
	277/480 V, 3Ø	83	201
QT080	120/240 V, 1Ø	174	435
	120/208 V, 3Ø	186	466
	120/240 V, 3Ø	161	404
	277/480 V, 3Ø	70	175
QT100	120/240 V, 1Ø	150	413
	120/208 V, 3Ø	186	452
	120/240 V, 3Ø	161	392
	277/480 V, 3Ø	107	261
QT130	120/240 V, 1Ø	236	648
	120/208 V, 3Ø	364	885
	120/240 V, 3Ø	315	767
	277/480 V, 3Ø	161	390
QT150	120/240 V, 1Ø	486	1214
	120/208 V, 3Ø	534	1334
	120/240 V, 3Ø	463	1156
	277/480 V, 3Ø	250	624

ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(l/hr)	(ft^3/hr)
QT070	Exercise cycle	110	3.1	1.2	4.6	44
	25% of rated load	260	7.4	2.85	10.8	104
	50% of rated load	500	14.2	5.46	20.8	200
	75% of rated load	696	19.8	7.62	29.1	280
	100% of rated load	1020	29	11.17	42.6	411
QT080	Exercise cycle	95	2.7	1.4	5.51	53
	25% of rated load	549.5	15.6	3.46	13.11	126
	50% of rated load	784.4	22.2	6.62	25.1	241
	75% of rated load	1024.8	29.0	9.24	34.96	336
	100% of rated load	1252.2	35.5	12.78	48.38	465
QT100	Exercise cycle	130	3.7	1.4	5.4	52
	25% of rated load	371	10.5	4.1	15.5	149
	50% of rated load	713	20.3	7.9	29.8	287
	75% of rated load	991	28.2	11	41.5	400
	100% of rated load	1260	35.8	13.9	52.6	507
QT130	Exercise cycle	135	3.8	1.4	5.7	55
	25% of rated load	482	13.7	5.3	20	193
	50% of rated load	927	26.3	10.3	38.7	373
	75% of rated load	1292	36.7	14.3	54	520
	100% of rated load	1786	50.8	19.8	74.6	719
QT150	Exercise cycle	155	4.4	1.7	6.5	63
	25% of rated load	556	15.8	6.09	23.2	224
	50% of rated load	1070	30.4	11.72	44.7	431
	75% of rated load	1491	42.4	16.33	62.3	600
	100% of rated load	2061	58.6	22.57	86.1	830

Note: **Fuel pipe must be sized for full load.**

For BTU content, multiply ft^3/hr x 2500 (LP) or ft^3/hr x 1000 (NG).

For Megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG).

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

GENERAC®

70 • 80 • 100 • 130 • 150 kW operating data

ENGINE COOLING

	70 kW	80 kW	100 kW	130 kW	150 kW
Air flow (inlet air including alternator and combustion air in ft³/min)	5200/147.2	5300/150.1	5500/155.7	6450/182.6	7800/220.9
System coolant capacity (gal/liters)	4.5/17	4/15.1	4.5/17	4.5/17	4.5/17
Heat rejection to coolant (BTU/hr)	287,000/302.8	316,000/333.4	342,000/360.8	496,000/523.3	568,000/599.3
Maximum operation air temperature on radiator (°C/°F)	60/150				
Maximum ambient temperature (°C/°F)	50/140				

COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	205/5.8	143/4	262/7.4	336/9.5	410/11.6

SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	64	65	68	69	66
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	74	72	75	79

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (cfm/cmm)	557/15.8	720/20.4	888/25.1	1119/31.7	1535/43.5
Exhaust temperature at muffler outlet (°C/°F)	477/890	796/1465	516/960	521/970	593/1100

ENGINE PARAMETERS

Rated Synchronous rpm	1800	3600	2300	2970	3600

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F
Altitude Deration (70,100,130 & 150) ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft
Altitude Deration (80 kW) ..... 1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft

CONTROLLER FEATURES

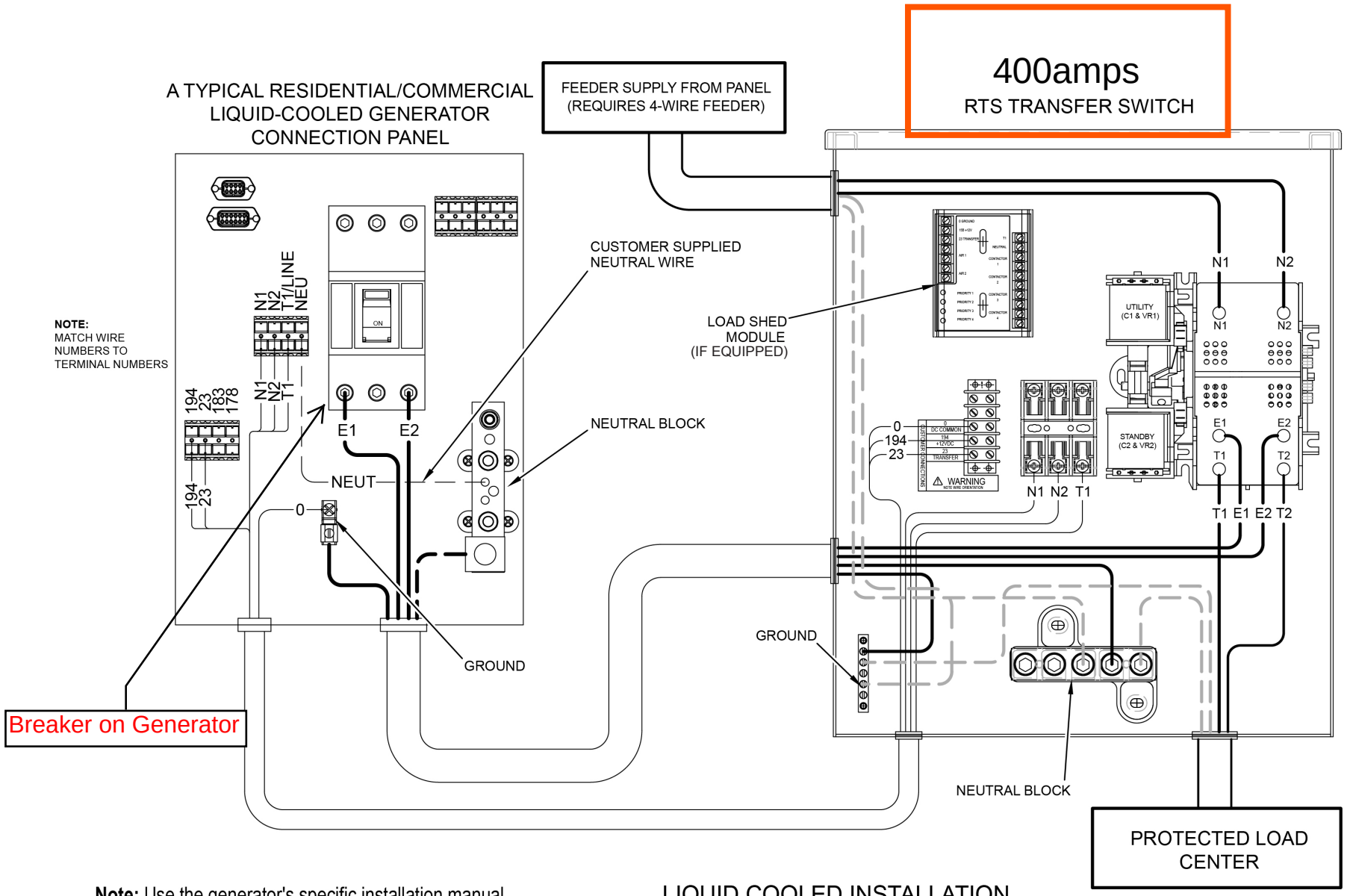
2-Line Plain Text LCD Display ..... Simple user interface for ease of operation.
Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser
Off ..... Stops unit. Power is removed. Control and charger still operate.
Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 10-30 seconds ..... Standard 10 sec
Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up ..... 5 sec
Engine Cool-Down ..... 1 min
Starter Lock-out ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger ..... Standard
Automatic Voltage Regulation with Over and Under Voltage Protection ..... Standard
Automatic Low Oil Pressure Shutdown ..... Standard
Overspeed Shutdown ..... Standard, 72 Hz
High Temperature Shutdown ..... Standard
Overcrank Protection ..... Standard
Safety Fused ..... Standard
Failure to Transfer Protection ..... Standard
Low Battery Protection ..... Standard
50 Event Run Log ..... Standard
Future Set Capable Exerciser ..... Standard
Incorrect Wiring Protection ..... Standard
Internal Fault Protection ..... Standard
Common External Fault Capability ..... Standard
Governor Failure Protection ..... Standard

GENERAC

70 • 80 • 100 • 130 • 150 kW available accessories

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G005632-1 - 70, 80 & 150 kW G005633-0 - 100 & 130 kW	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G005620-0 - 70, 100 & 130 kW G006204-0 - 80 kW G005667-0 - 150 kW	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G005660-0 - 70, 100, 130, and 150 kW G006915-0 - 80 kW	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.

Drawing #0H7452-D



Note: Use the generator's specific installation manual and wiring diagrams to verify generator wiring connections, as they may differ slightly from illustration.

LIQUID COOLED INSTALLATION

interconnections

GENERAC

WEIGHT DATA				
ENGINE/KW	ENCLOSURE	WEIGHT (DRY)	WEIGHT (WOODEN SHIPPING	SHIPPING WEIGHT (SKID
		KG [LBS]	KG [LBS]	KG [LBS]
6.8L 100KW				
	ALUMINUM	1148 [2531]	79 [175]	1227 [2706]
6.8L 130KW				
	ALUMINUM	1224 [2699]	79 [175]	1304 [2874]
6.8L 150KW				
	ALUMINUM	1130 [2492]	79 [175]	1210 [2667]

NOTES:

1) MINIMUM RECOMENDED CONCRETE PAD SIZE: 1240(48.8") WIDE X 3230 (127.2") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2) ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.
3) CIRCUIT BREAKER INFORMATION: SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL.
4) INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (.5 AMP MAX.) CONNECTION, AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE FRONT COVER FOR ACCESS.

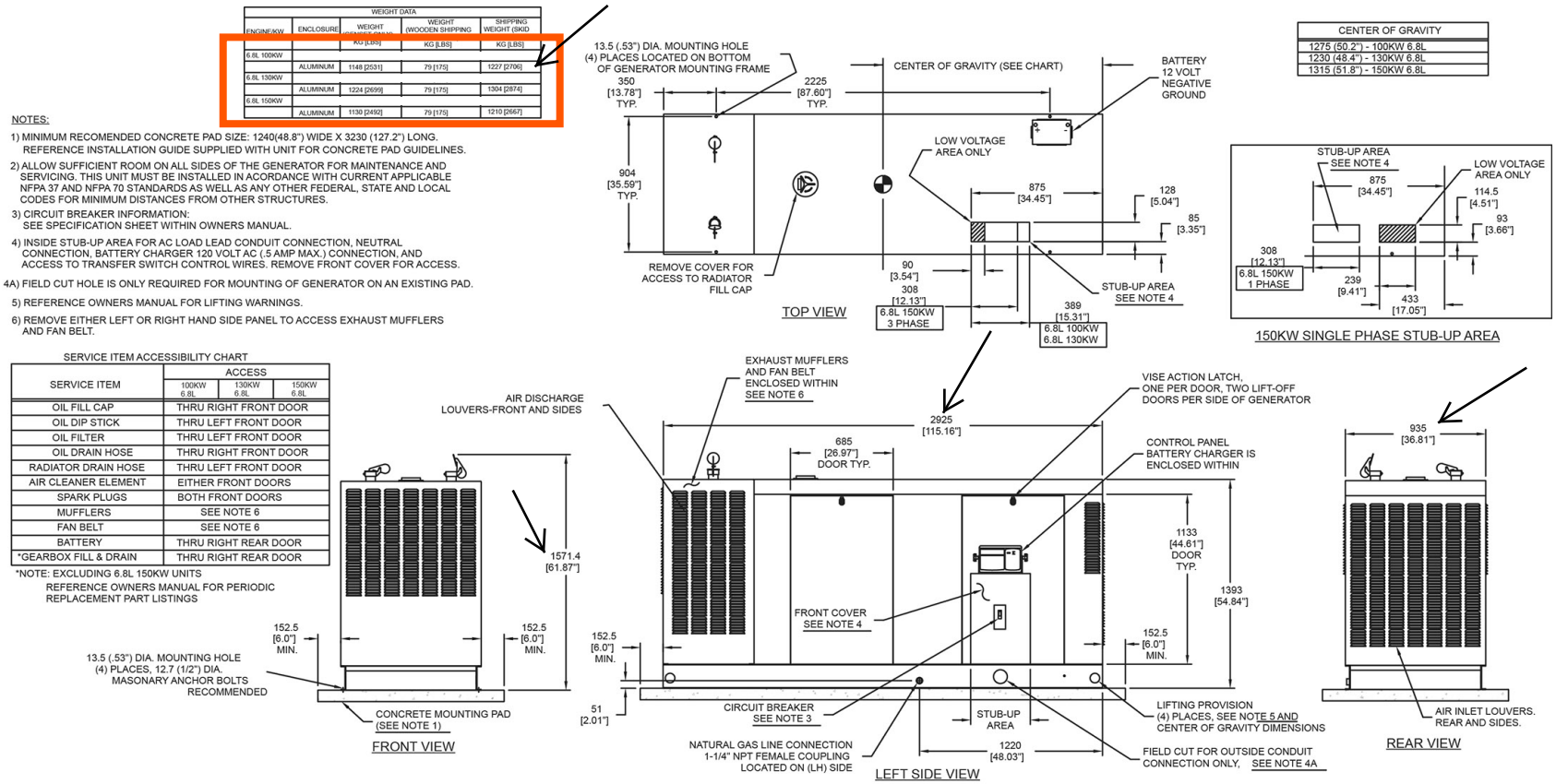
4A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.

5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLERS AND FAN BELT.

SERVICE ITEM ACCESSIBILITY CHART

SERVICE ITEM	ACCESS		
	100KW 6.8L	130KW 6.8L	150KW 6.8L
OIL FILL CAP	THRU RIGHT FRONT DOOR		
OIL DIP STICK	THRU LEFT FRONT DOOR		
OIL FILTER	THRU LEFT FRONT DOOR		
OIL DRAIN HOSE	THRU RIGHT FRONT DOOR		
RADIATOR DRAIN HOSE	THRU LEFT FRONT DOOR		
AIR CLEANER ELEMENT	EITHER FRONT DOORS		
SPARK PLUGS	BOTH FRONT DOORS		
MUFFLERS	SEE NOTE 6		
FAN BELT	SEE NOTE 6		
BATTERY	THRU RIGHT REAR DOOR		
*GEARBOX FILL & DRAIN	THRU RIGHT REAR DOOR		

*NOTE: EXCLUDING 6.8L 150KW UNITS
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



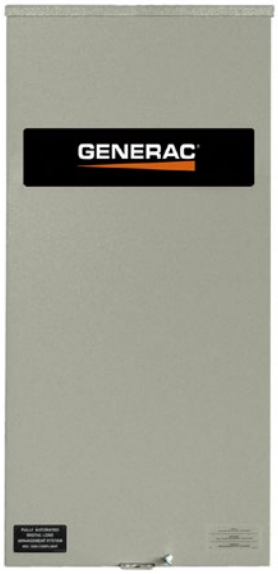
DIMENSIONS: MM [INCH]

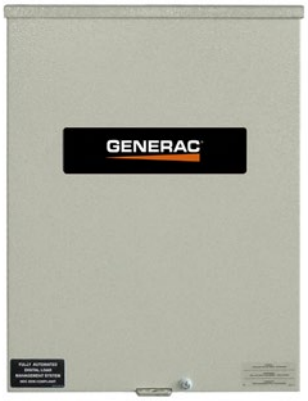
TRI-COUNTY, BIG PINE, STATHAM HALL
400A, 120/240V, SINGLE PHASE

Automatic Transfer Switches

Service and non-Service rated Automatic Smart Transfer Switches

100 - 400 Amps, Single Phase





c UL us LISTED

USA ENGINEERED & BUILT*

*Built in the USA using domestic and foreign parts

*CUL only applies to non-service rated switches

Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution™ or Nexus™ Controller. The 100, 200, and 400 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 and 300 amp open transition switches are only available in a service rated equipment configuration.

Standard Features

Service rated (RTSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a 5 year limited warranty.

* Non-service rated (RTSC) switches are housed in a steel enclosure.

DPM Technology

Through the use of digital power technology (DPM), these switches have the capability to manage up to 4 individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with Smart Management Modules, up to 8 more loads can be managed as well, providing the most installation efficient power management options available.

GENERAC®

100-400 Amps, Single Phase — Automatic Smart Transfer Switches

Functions

All timing and sensing functions originate in the generator controller

Utility voltage drop-out ..... <60%
Timer to generator start ..... 10 second factory set, adjustable between 2-1500 seconds by a qualified dealer*
Engine warm up delay ..... 5 seconds
Standby voltage sensor ..... 60% for 5 seconds
Utility voltage pickup ..... >80%
Re-transfer time delay ..... 15 seconds
Engine cool-down timer ..... 60 seconds
Exerciser ..... 12 minutes every 7 days

The transfer switch can be operated manually without power applied.

*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Amps	100	100	150	200	200	300	400	400
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
Enclosure Type	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UL	UL	UL/CUL	UL	UL	UL/CUL	UL
Withstand Rating (Amps)	10,000	10,000	22,000	10,000	22,000	22,000	22,000	22,000
Lug Range	1/0 - #14		250 MCM - #6			600 MCM - #4 or 1/0 - 250 MCM		

Dimensions

Model		RTSC100A3	RTSW100A3	RTSW150A3	RTSC200A3	RTSW200A3	RTSW300A3	RTSC400A3	RTSW400A3
Height (in./mm)	H1	17.24/437.9	17.24/437.9	26.75/679.4	17.24/437.9	26.75/679.4	42.91/1089.9	31.25/793.8	42.91/1089.9
	H2	20/508	20/508	30/762	20/508	30/762	48/1219.2	36/914.4	48/1219.2
Width (in./mm)	W1	12.5/317.5	12.5/317.5	10.5/266.7	12.5/317.5	10.5/266.7	16.69/423.9	19.18/487.2	16.69/423.9
	W2	14.6/370.8	14.6/370.8	13.5/342.9	14.6/370.8	13.5/342.9	21.82/554.2	24/609.6	21.82/554.2
Depth (in./mm)		7.09/180.1	7.09/180.1	6.3/160.1	7.09/180.1	6.3/160.1	10.06/255.5	10.06/255.5	10.06/255.5
Weight (lbs./kilos)		20/9.07	22.5/10.21	39/17.69	20/9.07	39/17.69	140/63.5	133/60.33	140/63.5