

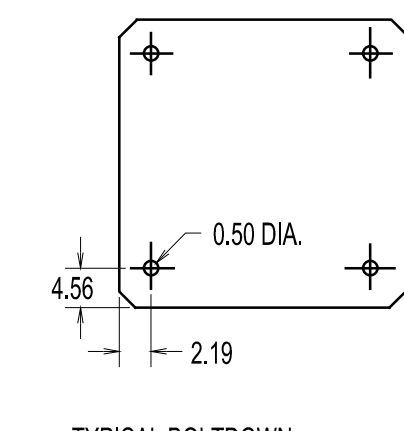
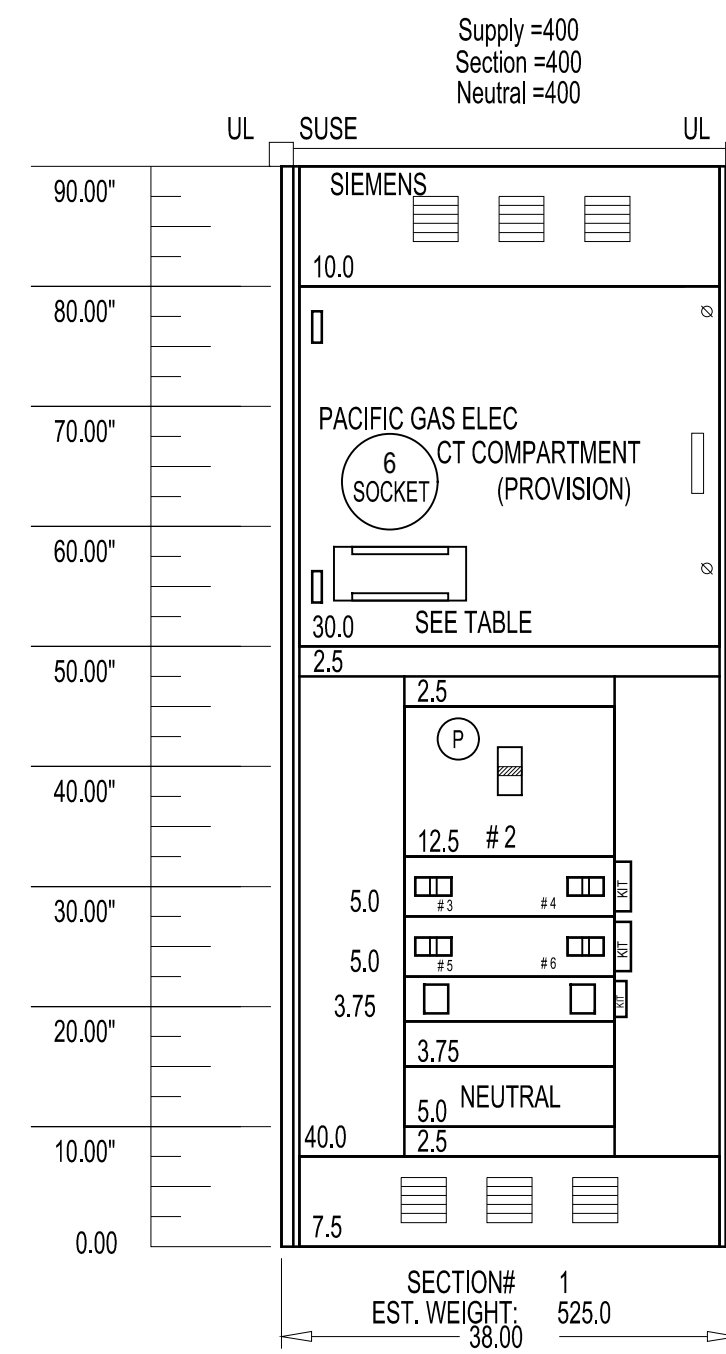


PLANS REVIEWED FOR CODE COMPLIANCE
 ACCEPTABLE
 ACCEPTANCE OF THE PLANS EXTENDS ONLY TO THAT WHICH IS SHOWN AND DESCRIBED HEREON, BUT DOES NOT AUTHORIZE OR APPROVE ANY CORRECTIONS, DEVIATIONS OR REQUIREMENTS OF STATE LAWS, LOCAL ORDINANCES OR OTHER AGENCIES.
 GRASS VALLEY FIRE DEPARTMENT
 BUREAU OF FIRE PREVENTION

APPROVAL SUBJECT TO FIELD ACCEPTANCE TESTS AND FINAL

ACCEPTED:
 SEE FIRE DEPARTMENT "CONDITIONS - 22FPS-0288" for
 CONDITIONS OF ACCEPTANCE.
 Darrin J. Hutchins June 22, 2022

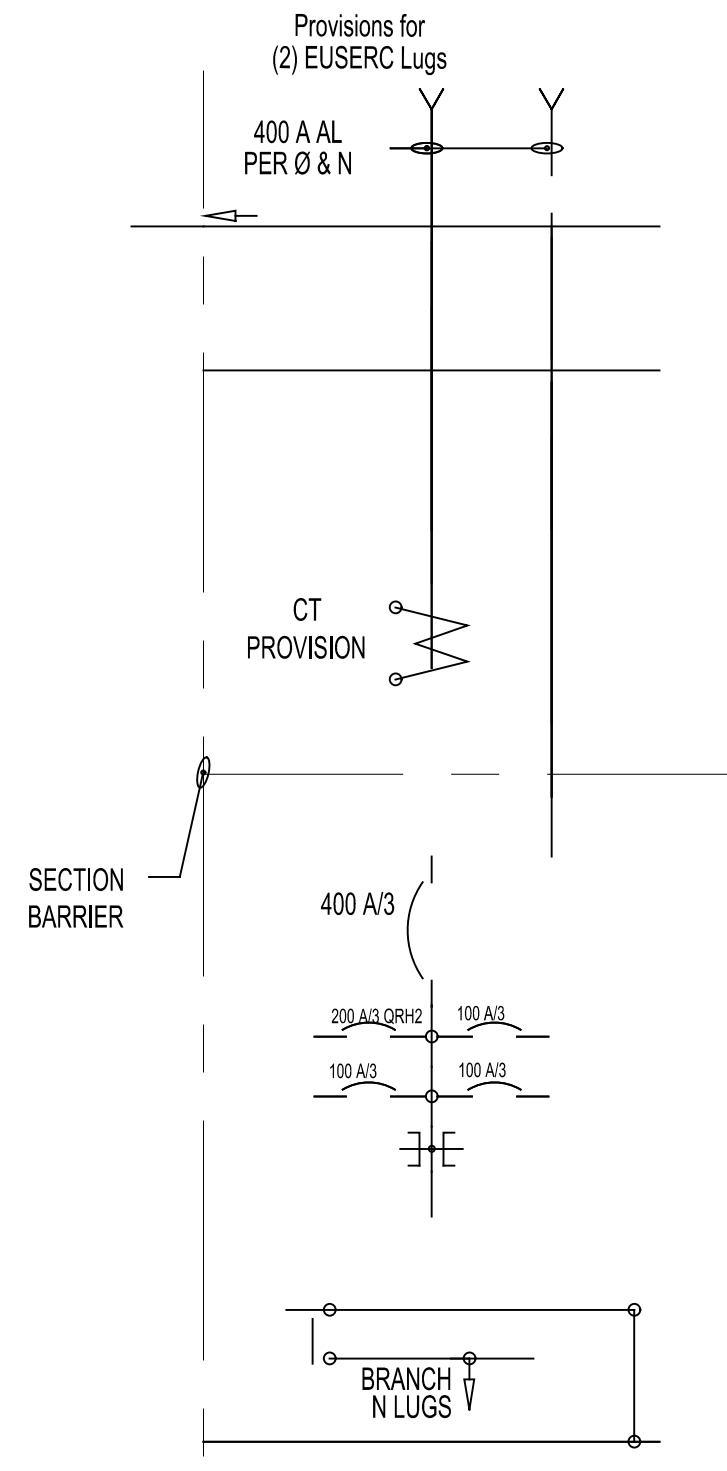
CONDITIONS OF APPROVAL
 (COA) SHEET SHALL BE INSERTED
 AFTER COVER PAGE.



- NOTES**
- CONSTRUCTION SWITCHBOARD IS BUILT AND LABELED PER UL 891 IN EFFECT.
 - INCOMING AMPERES 600
 - SERVICE SYSTEM VOLTAGE: 120/240 1Ø3W Ground Neutral AC
 - INTERRUPTING THE SHORT CIRCUIT INTERRUPTING CAPABILITY IS 22,000
 - RATING RMS SYMMETRICAL AMPERES AT 240 VOLTS BASED ON THE LOWEST SHORT CIRCUIT CURRENT RATING OF THE INDIVIDUAL OR SERIES RATED COMBINATION DEVICES INSTALLED AT TIME OF MANUFACTURE OF BUSING STRUCTURE. THE BUSING STRUCTURE IS CONSTRUCTED TO WITHSTAND FAULTS OF 42,000 RMS SYMMETRICAL AMPERES.
 - ENCLOSURE IS TYPE NEMA 3R FOR OUTDOOR APPLICATION.
 - ENCLOSURE SHALL BE CONSTRUCTED TO MEET SEISMIC REQUIREMENTS.
 - ANSI 61 LIGHT GREY PAINT.
 - TERMINATIONS ARE ACCESSIBLE FROM THE FRONT.
 - BUS BARS TYPED ALUMINUM BUS BARS SIZED ON BASIS OF 65°C MAXIMUM TEMPERATURE RISE.
 - UTILITY THE GROUND BUS IN THIS SWITCHBOARD IS ALUMINUM SIZED PER UL 891 OR GREATER.
 - SECTION SKIDS PACIFIC GAS ELEC
 - SPECIAL SHIPPING SKID(S) REQUIRED FOR LARGE SECTIONS.

ABBREVIATIONS

- UL: INDICATES THAT THE MARKED SWITCHBOARD SECTION COMPLIES WITH ALL APPLICABLE UNDERWRITERS LABORATORIES STANDARDS AND IS IDENTIFIED WITH A UL LABEL.
- SUSE: INDICATES THAT THE MARKED SWITCHBOARD SECTION IS SUITABLE ONLY FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- PROV: INDICATES THAT A PROVISION IS MADE FOR A FUTURE DEVICE. ALL REQUIRED MOUNTING HARDWARE IS PROVIDED.
- UNIT SPACE: INDICATES UNOCCUPIED AREA INTENDED FOR FUTURE USE.
- P: INDICATES PADLOCK PROVISION.



UTILITY CO.: PACIFIC GAS ELEC

DESCRIPTION	PG. NO.
CT COMPARTMENT	F319
UGPS	345
LINE TERMINATION	347
METER PLATES	333
SMM METERING	--
SUPPORT	12-18

INSTALLATION NOTE

Caution: If switchboard is installed on a housekeeping slab greater than 2'-1/2" the meter may be over the 6'3" maximum allowable meter height. Consult utility if you need more information.

NO.	REVISIONS	DRAWN BY:	DATE
1	0	-	1-16-2021

Job: Interfaith Food Ministry

Customer: Interfaith Food Ministry

Contractor: Grahb20c

Engineer: MSB

Date: 3-14-2022

DWG. NO.: grahb20c_01182100_00_00_M00-20000-1

APP: [Signature]

MFG. LOC: [Signature]

DWG. FILE: [Signature]

SHEET 1 of 8

REV 1

- REQUEST FOR PROPOSAL / ELECTRIC SCOPE OF WORK**
- The Electrical Contractor shall provide all labor and materials necessary for a complete and working electrical system; the system shall include but is not limited to:
 - Installation of a contractor provided 60kW 120/208V 3Ø4W Kohler generator and 200A Service Entrance rated transfer switch.
 - Connection of the new generator to existing panel "A"
 - Connection of selected receptacles to panel "A", including IT rack branch circuit, manager's office and selected office terminals, as indicated on the plans.
 - Installation of announcement panel to an interior location, as noted on the plans.
 - Contractor to provide connections to PG&E gas, as required. Note the gas service may need an upgrade, consult with PG&E for local requirements.
 - The electrical system shall include:
 - Full conduit system. EMT conduit, flex or bx cabling shall be used throughout. All exposed conduits shall be run plumb, true and at right angles to the building lines.
 - Conductors to be copper, 12awg minimum, excepting feeder conductors larger than #4 AWG.
 - Specification grade devices.
 - This is a prevailing wage project. Provide all necessary documents to the California Dept. of Industrial Relations, per DIR standards and direction. All bids submitted become the property of the owner; a public bid opening shall be scheduled by the owner.
 - Contractor shall make application to the Pacific Gas and Electric Company for gas service. Fees for gas meter upgrades to be paid by the building owner.
 - Contractor to provide City of Grass Valley building inspections.
 - Contractor to provide evidence of three (3) successful generator installations of similar size and type within the last five (5) years.
 - All materials shall be new and free of defects.
 - Upon completion, provide a detailed "as-built" plans to the owner.
 - Upon completion, provide product manuals and instruction as to the correct use, function and maintenance of each system and device.
 - All work to be minimally invasive to other tenancies. Collect refuse daily and store materials so as to not interfere with other areas of construction.
 - Coordinate work with other trades; advise plans or field conflicts to the General Contractor or Architect as they become known and before proceeding with construction.
 - Work not to include: Floor cutting and patching, coring, repair to existing interior wall finishes.
 - All work involving commissioning, testing and power cut-over to be coordinated with the building owner to minimize disruptions to the business operations.
 - Contractor is to maintain jobsite sanitary facilities and a garbage container suitable for construction debris. The Contractor shall keep his portion of the jobsite neat and orderly. All refuse is to be placed in the container at the end of each business day.

**INTERFAITH FOOD MINISTRY
 40kW GENERATOR INSTALLATION
 PROJECT INFORMATION**

SITE ADDRESS:
 440 HENDERSON STREET
 GRASS VALLEY, CA 95945

APN: 008-520-059
 ZONING: NC-FLEX GVCTY
 ACRES: 1.16

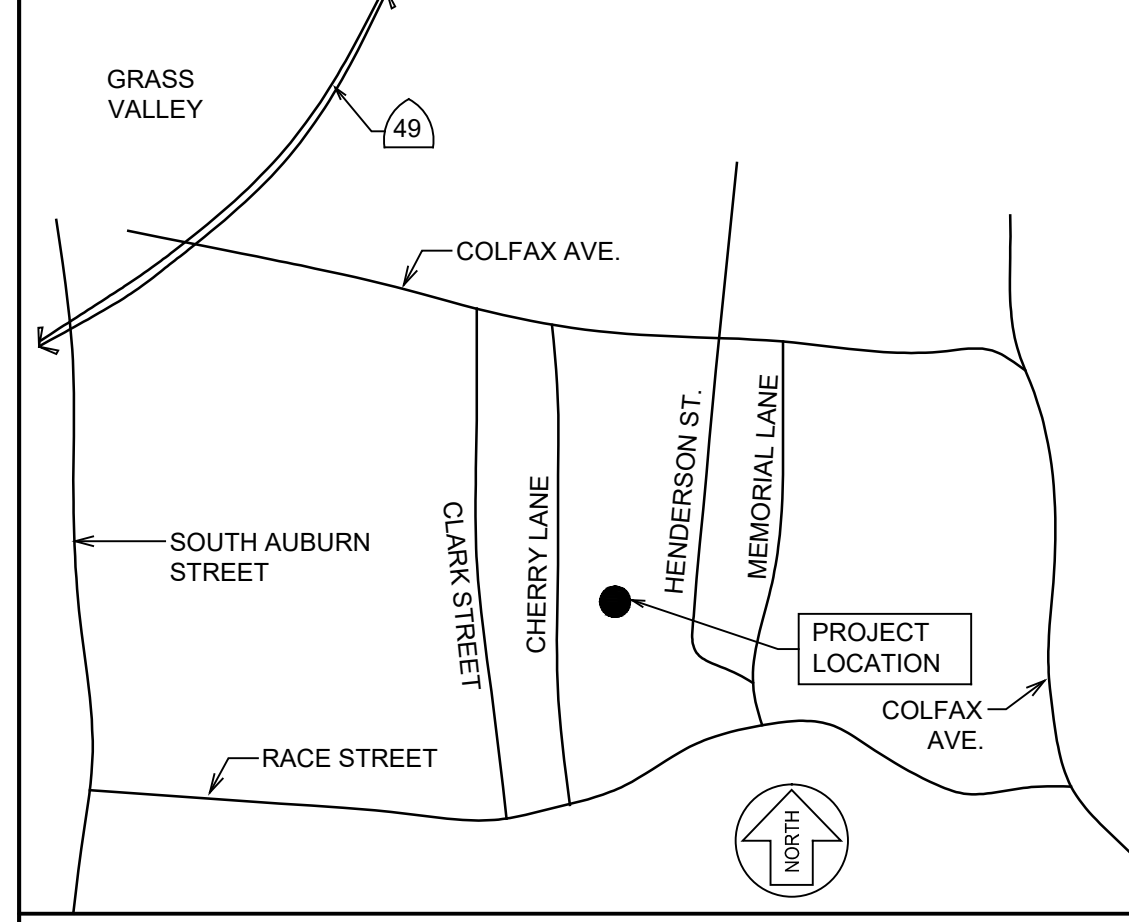
SHEET INDEX

E-CS	COVER SHEET
E1.0	ELECTRIC PLAN
E2.0	GENERATOR SPECIFICATION
E3.0	TRANSFER SWITCH SPECIFICATION

OWNER

INTERFAITH FOOD MINISTRY
 440 HENDERSON STREET
 GRASS VALLEY, CA 95945
 530-273-8132

VICINITY MAP
 NOT TO SCALE



- NOTES**
- COMPLY WITH:
- 2019 California Residential Code (CRC)
 - 2019 California Mechanical Code (CMC)
 - 2019 California Energy Code (T-24)
 - 2019 California Electric Code (CEC)
 - 2019 California Plumbing Code (CPC)
 - 2019 Swimming Pool, Hot Tub and Spa Code
 - 2019 California Fire Code
 - 2019 California Green Building Standards Code (CGC)
 - Other Local & State Laws

General Notes

NOTES:

No.	Revision/Issue	Date



Grass Valley Electric
 G. Brady Pryor
 Phone: (530) 273-7543
 Cell: (530) 913-3384
 Fax: (530) 273-3400
 bradpryor@bcglobal.net

Project Name and Address:
INTERFAITH FOOD MINISTRY
 440 HENDERSON STREET
 GRASS VALLEY, CA

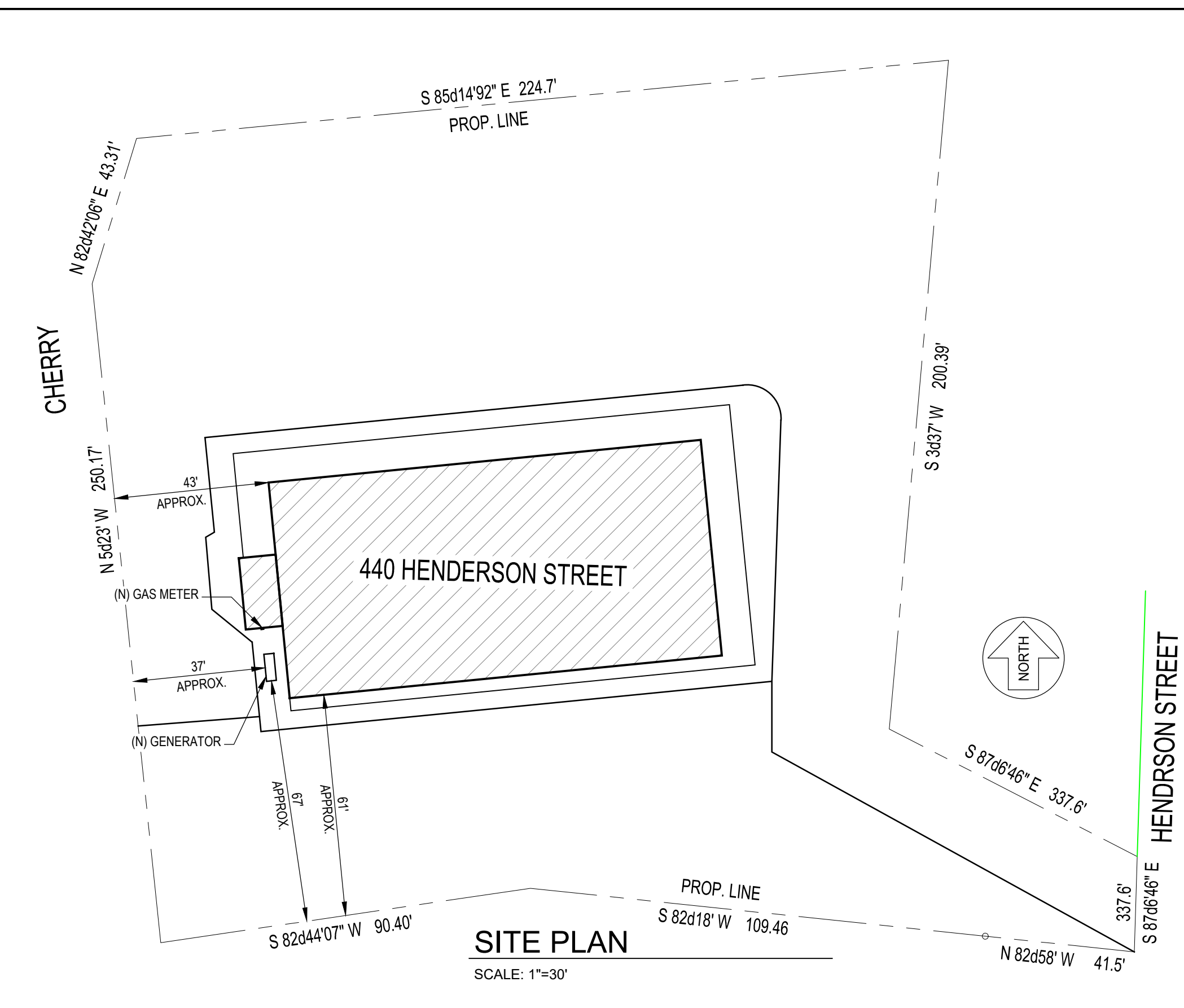
Project No.	Sheet
Date	COVER SHEET
Scale	SITE PLAN
	SWITCHBOARD DIAGRAM
	E-CS

REVIEWED FOR CODE COMPLIANCE

John May

PLANS REVIEWED SUBJECT TO FIELD INSPECTION

Plans shall reflect the scope of the project. Any changes or deviations must be submitted and reviewed by the Building Department prior to inspection.





CITY OF GRASS VALLEY - CONDITIONS OF APPROVAL

ALL CONDITIONS OF APPROVAL MUST BE SATISFIED PRIOR TO FINAL INSPECTION

Office of the Fire Marshal
City of Grass Valley Fire Department
(530) 274-4380



CITY OF GRASS VALLEY
BUILDER'S COPY

Date: June 22, 2022

To: Brady Pryor
10973 Rough & Ready Hwy.
Grass Valley, CA 95945

From: Darrin Hutchins, Deputy Fire Marshal

File #: 22FPS-0288

Re: 22BLD-0288, APN: 008-520-059; Installation of a 40k W LNG Generator Emergency Standby Power System located at 440 Henderson St. in Grass Valley, Ca. 95945

Plans for emergency and standby power systems are reviewed by the [Fire Prevention Bureau for the City of Grass Valley Fire Department](#) to ensure that a reasonable degree of fire and life safety will exist once the project has been completed.

Plans for specialized systems, including back-up/standby power systems, communication systems, fire alarm, fire suppression, and smoke removal, are reviewed to determine compliance with applicable codes and standards.

The Fire Prevention Bureau for the City of Grass Valley Fire Department also reviews plans to verify compliance with the California Fire Code as they relate to the storage, use, and handling of explosive, flammable, combustible, toxic, corrosive and other hazardous gaseous, solid, and liquid materials.

The plans, specifications, calculations, and related submittals for the above referenced project have been reviewed for compliance with the minimum requirements of the 2019 editions of the California Fire Code, California Building Code, the following editions of NFPA: 30-18 (Flammable and Combustible Liquids Code), 37-15 (Standard for the Installation and use of Stationary Combustible Engine and Gas Turbines), 54-15 (National Fuel Gas Code), 110-16 (Standard for Emergency and Standby Power Systems), 704-17 (Standard System for Hazards of Materials for Emergency Response) and the City of Grass Valley.

The plans for the above referenced project have been reviewed and **ACCEPTED** subject to following conditions:

Fire extinguisher(s) with a minimum rating of 2-A:20-B:C **shall be provided** such that no point is further than 75-foot travel distance to an extinguisher. Extinguishers shall be mounted in cabinets; such that the top of the extinguisher is no more than *four (4') feet* above and the bottom no less than *four (4") inches* from the ground level.

Provide applicable signage in accordance with 2019 CFC/CBC and NFPA 704-17.

*The above conditions are the minimum requirements of the Fire Prevention Bureau for the City of Grass Valley Fire Department. **Approval of the drawings and specifications are subject to the applicant agreeing to complete the above requirements and successful passing of all required testing.***

All work performed without benefit of the required inspections may be subject to additional inspections or removal, as needed, to ensure that the work has been completed in compliance with the requirements of the fire prevention bureau, the approved design, and the manufacturer's listing or installation requirements.

This approval does not replace any license or permit required by other agencies.

Have stamped / accepted plans on site for all inspections.

All Inspections and/or Acceptance Tests are performed on Tuesday and Thursday only. To schedule please contact Robert Arnett at rob-erta@cityofgrassvalley.com at least 3 BUSINESS DAYS in advance.

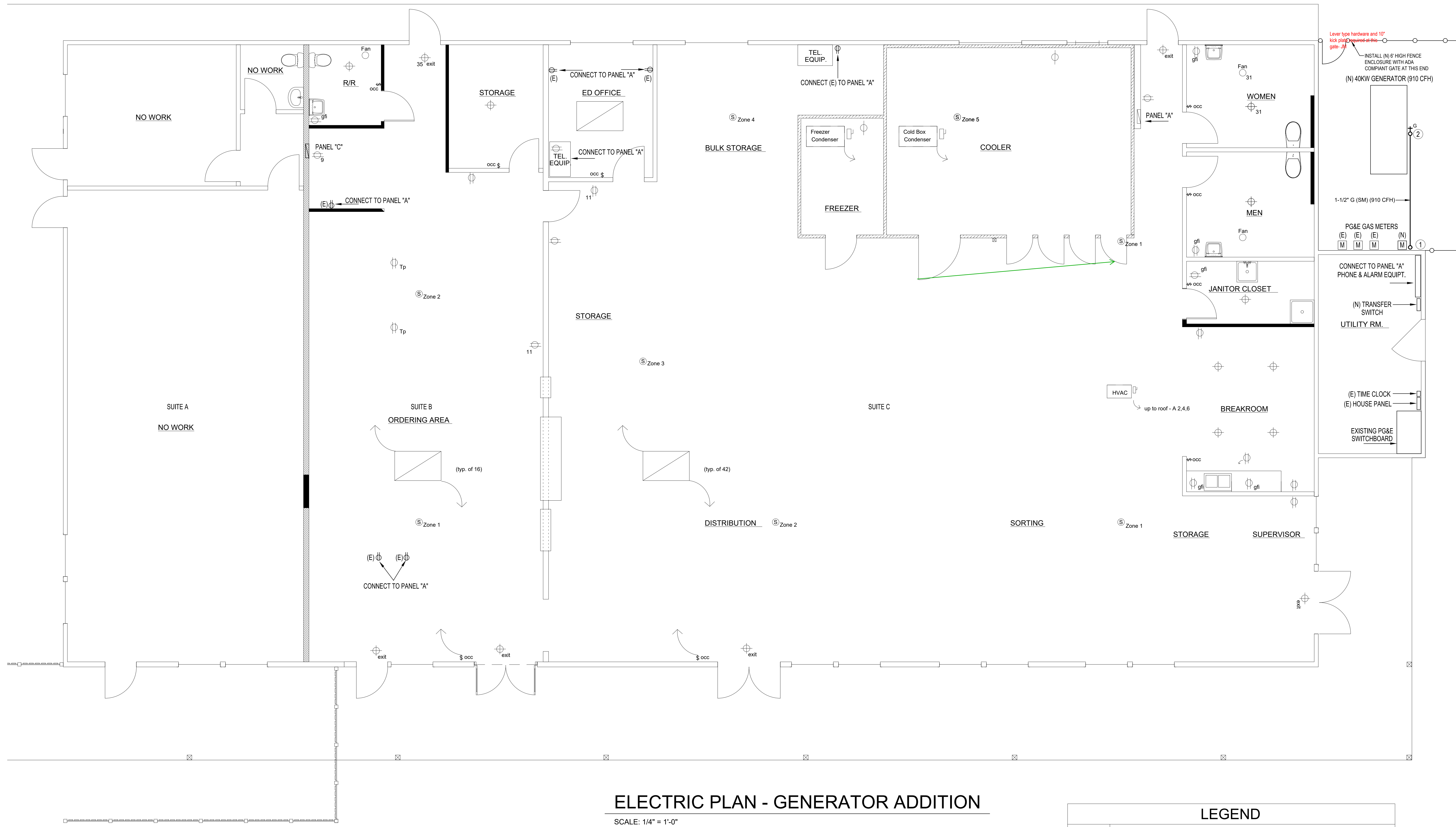
Please contact me at darrinh@cityofgrassvalley.com should you have any questions.

Darrin J. Hutchins

Darrin Hutchins,
Deputy Fire Marshal

CITY OF GRASS VALLEY

COA



ELECTRIC PLAN - GENERATOR ADDITION

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

- GAS PIPING NOTES**
- GAS PIPING SIZED ACCORDING TO FIGURE 1-19, KOHLER 40 RCLB INSTALLATION MANUAL. PIPE SIZING FOR NATURAL GAS LESS THAN 2 PSI WITH PRESSURE DROP = 0.5 IN. WC.
 - DISTANCE FROM METER TO GENERATOR = 11 FEET. FITTING EQUIVALENT LENGTH = 16 FEET. USE 40 FEET COLUMN IN FIGURE 1-19.
 - GAS PIPING SHALL SCHEDULE 40 BLACK STEEL.
 - PROVIDE SHUTOFF VALVES OR STOPS AT CONNECTION. AT GAS CONNECTION, PROVIDE GAS COCK, DIRT LEG, UNION AND FLEX CONNECTION.
 - MAIN GAS SHUT OFF TO THE BUILDING SHALL BE IDENTIFIED WITH PERMANENT ALL WEATHER SIGNAGE STATING "MAIN GAS SHUT OFF". INSTALL LINE SIZED SHUT-OFF DOWNSTREAM OF METER.

- GAS PIPING KEYED NOTES**
- 1-1/2" GAS DROP TO GROUND LEVEL
 - 1" GAS CONNECTION TO GENERATOR (910 CFH)

GAS SYMBOLS AND LEGEND

SM	SURFACE MOUNT
M	GAS METER
o+o	GAS SHUT-OFF BIBB
1" G (SM) (95)	GAS PIPING, SIZE LISTED
G	W/ kBTU/hr IN PARENTHESES

LEGEND

§ occ	Switch, occupancy sensor
exit	LED Exit fixture w/ battery backup
⊕	Fluorescent Lighting fixture, 1x4 surface 2-F032T8 lamps
⊕	Fluorescent Lighting fixture, 2x4 troffer 3-F032T8 lamps
⊕ Zone 1	Occupancy Sensor, ceiling mounted w/ zone indicated
⊕	Receptacle, general use Nema 5-20
⊕	Receptacle, GFI protected Nema 5-20
⊕ Tp	Telepower Pole, Wiremold 25TP4
Fan	Bath Fan, Broan 684 80 cfm

General Notes

NOTES:



Grass Valley Electric
 G. Brady Pryor
 Phone: (530) 273-7543
 Cell: (530) 913-3384
 Fax: (530) 273-3400
 bradpryor@bcglobal.net

Project Name and Address:
INTERFAITH FOOD MINISTRY
 440 HENDERSON STREET
 GRASS VALLEY, CA

Project No. Sheet
 Date 3-16-2022 ELECTRIC PLAN
 Scale 1/4"=1'-0" GAS PIPING PLAN
E1.0 GENERATOR ADDITION

KOHLER

Model: RXT Automatic Transfer Switch 100-400 Amps

9001 KOHLER

Model RXT Automatic Transfer Switch

The Model RXT automatic transfer switch is designed for use only with Kohler® generator sets equipped with the RDC2 generator set/transfer switch controller.

Standard Features

- Allows utility voltage display on the RDC2 generator set/transfer switch controller, available exclusively on Kohler® residential and light commercial generator sets.
UL listed
UL 1008 listed, file #E58962
Models with load centers use UL 67 listed components
CSA certification, file #LR56301, is available for:
Standard ATS without load center (single and three-phase)
Service entrance ATS 100, 200, 300, and 400 amp models
Corrosion-resistant NEMA 3R aluminum enclosure
Padlockable
Approved for indoor or outdoor installation
ANSI 49 gray
NEMA 1 enclosure available on 100 amp load center models
Contactor electrically and mechanically interlocked
Double throw inherently interlocked design
Contactor manually operable for maintenance purposes
Silver alloy main contacts
Transfer switches are 100% equipment rated and can be applied at the rated current without derating (non-service entrance models)
Service entrance models include disconnect circuit breaker on the utility (normal) source side (80% rated)
Five-year limited warranty

Standard Interface Board

- Standard interface board connects to the Model RDC2 generator set/transfer switch controller.
Includes a load control contact that provides a 5 minute time delay for startup of selected loads after transfer to the emergency source. Use for large motor loads.

Combined Interface/Load Management Board

- Optional combined interface/load management board replaces the standard interface board and connects to the Model RDC2 generator set/transfer switch controller.
The combined board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
The combined board automatically manages up to six residential loads.
Up to four customer-supplied power relay modules can be connected for control of non-essential secondary loads.
Two HVAC relays are included for control of two independent air conditioner loads.

Available Models

- 100, 200, and 400 amp standard and service entrance models are available.
150 and 300 amp service entrance models are also available.
Combined interface/load management board is available on single-phase standard and service entrance models. (Not available on 3-phase or load center models.)
100 amp standard single-phase models are available with or without a 16-space load center. Up to 8 tandem breakers can be used for a total of 24 circuits.
100 amp standard single phase model with a 12-space load center and a NEMA 1 enclosure is available as a standalone non-configurable spec (GM55273-SA.).
See page 7 for more information.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 1

Codes and Standards

The ATS meets or exceeds the requirements of the following specifications:

- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Systems, file #E58962
Underwriters Laboratories UL 508, Standard for Industrial Control Equipment
CSA certification available, file #LR56301 (not available for 150, 300, or 400 amp service entrance or 100 amp load center models). Must be selected when the transfer switch is ordered.
NFPA 70, National Electrical Code
NFPA 110, Emergency and Standby Power Systems
NEMA Standard IC10-1993, AC Automatic Transfer Switches

Specifications

Table with columns: Controller interface connections, Controller interface connections, PWR and CDM, Load control contact rating, and Load control connections.

Note: For combined interface/load management board specifications, see page 3.

Environmental Specifications

Table with columns: Operating temperature, Storage temperature, and Humidity.

Contact Ratings

Table with columns: Engine start, Load control, and SPST normally closed (NC).

Auxiliary Position-Indicating Contacts

Table with columns: Model, Number of contacts, Normal, Emergency, and Contact Rating.

Cable Sizes

Table with columns: Switch Size, Amps, Switch, Ph, Normal (per phase), Emergency and Load (per phase), Neutral, and Ground.

Note: Data is subject to change. Refer to the transfer switch dimension drawings and wiring diagrams for planning and installation.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 2

Optional Combined Interface/Load Management Board

The RXT transfer switch is available with either a standard interface board or a combined interface/load management board. The combined board allows load management as described below.

Load Management

- The combined load management board disconnects non-critical loads to prevent generator overload, in compliance with NEC.
The combined load management board monitors generator current and frequency to determine when to add or shed loads. This monitoring prevents frequency drops that can damage valuable electronics like computers and televisions.
Load management allows the use of a smaller generator set.

Operation

- Loads are automatically added or shed based on generator capacity.
The load control system uses dynamic logic to prevent shedding important loads unnecessarily when air conditioning, refrigerator, or water pump motors start (start pending).
The load management board and generator communicate to provide smart power management. The time to shed loads decreases as each load is shed to quickly adapt to critical power requirements.
Load shed power level and frequency setpoints can be adjusted using a personal computer (PC) and Kohler® SiteTech™ software, which is only available to Kohler-authorized distributors and dealers.

Load Shed Specifications

Table with columns: Connection, Rating, and Connection.

Current Transformer Specifications

Table with columns: Ratio (Amps/VAC), Outer Diameter (mm (in.)), Inner Diameter (mm (in.)), Service Part Number, Sales Kit Part Number, and CT Availability.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 3

Withstand and Close-On Ratings (WCR)

Service Entrance Transfer Switch Ratings

The service entrance transfer switch is factory-equipped with a normal source disconnect circuit breaker.

Table with columns: Switch Rating, Amps, and WCR, RMS Symmetrical Amps at 240 VAC.

Contactor Ratings with Coordinated Circuit Breakers

Single-phase transfer switches are UL listed at 240 VAC maximum. Three-phase transfer switches are rated at 480 VAC maximum. The following table lists contactor withstand current ratings (WCR) for 100-400 ampere non-service entrance rated switches with specific manufacturer's circuit breakers per UL and Canadian safety standards.

Table with columns: Switch Rating, Voltage, Number of Poles, Phases, WCR, RMS Symmetrical Amps, Manufacturer, Type or Class, and Maximum Size, Amps.

* For higher WCR values, contact the factory for additional specific breaker ratings.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 4

General Notes

NOTES:

Table with columns: Switch Rating, Voltage, Number of Poles, Phases, WCR, RMS Symmetrical Amps, Manufacturer, Type or Class, and Maximum Size, Amps.

* With Duplex 310-LB or LSG Int. Overload set to 12K.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 5

Dimensions and Weights

Note: Always use the transfer switch dimension drawing for planning and installation. Weights and dimensions may vary for different configurations. See the Operation/Installation Manual or your local distributor for dimension drawings.

Note: Transfer switch weights and dimensions shown in the table do not include packaging. To estimate the shipping weight, add 3 kg (6 lbs.) or 10% (whichever is larger) to the weight shown.

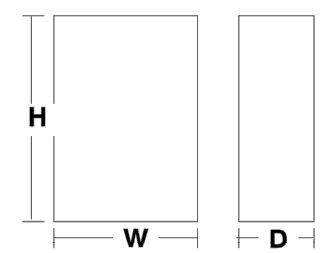


Table with columns: Amps, Description, Dimensions, H x W x D, mm (in.), Weight, kg (lbs.), and Dimension Drawing.

† Depth does not include the padlock hasp on the front of the enclosure.
Transfer switch weights are approximate and do not include packaging.
Note: Enclosures are type NEMA 3R except as noted.

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 6

Accessories

- Auxiliary position-indicating contacts
Status indicator kit for combined interface/load management board
Power relay modules
Status indicator kit for standard interface board
Auxiliary circuit breaker (service entrance models only)

Available Models

All Model RXT transfer switches are standard-transition 60 Hz automatic transfer switches. Letters in parentheses refer to the model designation code described on the last page.

Table with columns: Amps, Description, Voltages, Poles, Phases, RMS Symmetrical Amps, and WCR.

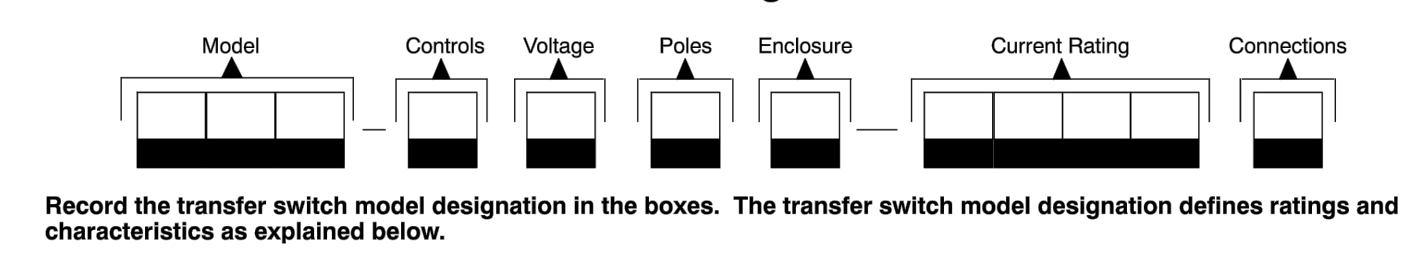
† Withstand and close-on ratings. See pages 3-5 for WCR information and specific breaker ratings.
* With 16-space load center and NEMA 1 or NEMA 3R enclosure. Up to 8 tandem breakers can be used, for a maximum of 24 circuits.
** GM55273-SA, with 12-space load center and NEMA 1 enclosure.

Note: Combined interface board is available on single-phase standard or service entrance models. (Not available on 3-phase or load center models.)

G11-152 (Model RXT Automatic Transfer Switch) 4/21 Page 7



Model Designation



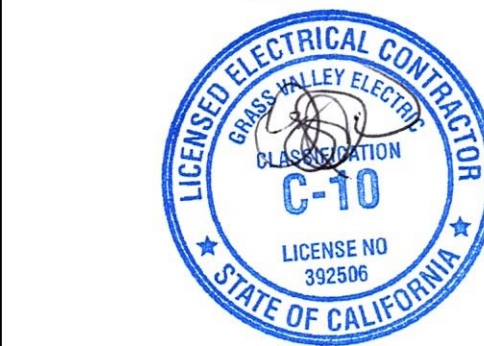
Record the transfer switch model designation in the boxes. The transfer switch model designation defines ratings and characteristics as explained below.

Sample Model Designation: RXT-JFNC-0200A

Table with columns: Model, Controls, Voltage/Frequency, Number of Poles/Wires, Enclosure, Current Rating, and Connections.

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Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator distributor for availability.
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Grass Valley Electric
G. Brady Pryor
Phone: (530) 273-7543
Cell: (530) 913-3384
Fax: (530) 273-3400
bradypryor@bgcglobal.net

Project Name and Address:
INTERFAITH FOOD MINISTRY
440 HENDERSON STREET
GRASS VALLEY, CA

Project No. 3-16-2022
Sheet TRANSFER SWITCH SPECIFICATION
Scale N/A
E3.0