



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT

2026-001954

GEN

June 9, 2026

F.D. Permit Number

Date

Description of Work: To replace an old and outdated back-up generator with a new back-up generator in HA's public housing development located at KIDD Manor PHD, 100 Austin Court in San Pablo CA.

Project Name: Back-up Generator Replam]cement Project Address: KIDD Manor PHD, 100 Austin Court

Suite: N/A City: San Pablo, CA Zip: 94806

Contractor: TBD Contractor's License/Type #: TBD

Address: TBD City: TBD State: TBD Zip: TBD

Contact Person: Ted Ancheta Phone No. (): 925 499-1161 Email: tancheta@contracostahousing.org

OFFICE USE ONLY: DO NOT COMPLETE BELOW THIS LINE

The Fire District has reviewed the proposed **GENERATOR** plans for the project facility. Our review is to ensure compliance with the minimum code requirements related to fire and life safety as set forth in the 2022 California Fire Code and the 2018 NFPA 30, 2015 NFPA 37 and 2016 NFPA 110, and 111. The following selected comments shall apply to this project:

- ☒ **70** **NO TANK**
Installation of a _____ kw standby diesel generator with a _____ gallon fuel tank.
- ☐ Prior to being placed in service, the tank and associated piping shall be field tested in accordance with Sections 5704.2.12 & 5703.6.3 CFC and the Table below, unless otherwise supported by the manufacturer's specifications.

	Field Test	Duration
Primary Tank Test	3 to 5 p.s.i.g.	60 minutes
Secondary Tank Test	3 to 5 p.s.i.g.	60 minutes
Primary Piping Test	Hydrostatically at 150% of anticipated pressure Or Pneumatically at 110% of anticipated pressure	Sufficient time period to complete visual inspection of joints and connections. Minimum of 10 minutes with no leakage or permanent distortion
Secondary Piping Test	5 p.s.i.g.	Sufficient time period to complete visual inspection of joints and connections. Minimum of 10 minutes with no leakage or permanent distortion

- ☒ Provide a 2A:40B:C rated fire extinguisher near the generator at no more than five (5) feet above floor level. Extinguisher shall be commercial grade, currently tagged, or have manufacturer date clearly marked on the extinguisher. A weatherproof cabinet shall be provided for exterior mount installations. (906.1) CFC

(CONTINUED OVER)

Fee computed by: _____ Amount Due: \$ _____

Received by: _____ Amount Received: \$ _____

☐ Cash ☐ Credit ☐ Check No. _____ Invoice No. _____

- ☒ Provide NFPA 704 placards on the exterior of doors/gates of the generator enclosures as follows:
Health; (blue)-1, Fire; (red)-2, Reactivity; (yellow)-0



NFPA 704 placards shall be visible from all angles of approach. (5704.2.3.2) and (5003.5) CFC

- ☒ Signs prohibiting smoking and open flames shall be posted. (5704.2.3.1) CFC
- ☒ The vent pipe outlet shall be located such that the vapors are released not less than 12 feet above the finished ground level. (5704.2.7.3.3) CFC
- ☐ Enclosures subject to vehicle contact shall be provided with vehicle impact protection in accordance with Section 312 of the California Fire Code. Bollards shall be not less than 4" diameter steel, concrete filled, not less than 3' above grade and not less than 3' below grade into a minimum 15" concrete base. (5703.6.4) CFC

- ☒ **SUBMIT TENANT IMPROVEMENT PLANS
TO CCCFPD FOR REVIEW AND
APPROVAL PRIOR TO CONSTRUCTION.
GENERATOR ROOM AND DOOR TO BE
FIRE RATED. SB**

On the morning of the inspection, a confirmation telephone call made to the Fire District at 925-941-3300 is necessary between 8:00 and 8:30 AM. Otherwise, the inspection will be cancelled.

Approval does not relieve the designer / contractor from complying with all applicable fire code requirements, nor does it abrogate the requirements of other authorities having jurisdiction.

☐ Approved as submitted

☒ Approved with Comments

☐ Denied, Resubmittal Required

Reviewed by: _____ *SBach* _____ Date: 7/3/2026



A PRINTED COPY OF THE
STAMPED, APPROVED PLANS
SHALL BE ON SITE AT THE TIME OF
INSPECTIONS

REQUEST A FIELD INSPECTION
through ONE (1) of the following methods:

- 1) Schedule through the Fire District's Public Portal:
<https://confire.vision33cloud.com/citizenportal/app/landing>
- 2) Call the Inspection Request Line at:
(925) 941-3300 ext. 3902
- 3) Email the Permit Technicians with a Request Form:
permittech@cccfd.org

2026-001954 ENST

GENERAL NOTES

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS.
2. PROCURE REQUIRED PERMITS AND LICENSES. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES, ORDINANCES AND UTILITY COMPANIES.
3. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
4. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES (CEC, NFPA, CEC, CFC, COUNTY AND CITY).
5. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
6. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
7. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
8. ALL DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP A.C., MOUNT ALL RECEPTACLE, TELEPHONE AND DATA OUTLETS AT +15" MIN (BOTTOM OF BOX) AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CEC AND ELECTRICAL CODES.
10. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
11. ALL WIRING SHALL BE INSTALLED IN METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED IN WALL AND CEILING MAY BE ENT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR SLAB. INSTALL ALL CONDUITS IN ACCORDANCE WITH NECA STANDARDS OF INSTALLATION. MC CABLE IS ALLOWED ON THIS PROJECT.
12. CONDUCTORS, #12 AND LARGER, SHALL BE STRANDED COPPER WITH THIN/THIN INSULATION, UNLESS OTHERWISE NOTED.
13. PROVIDE WORKING CLEARANCE PER CEC 110.26. SERVICE PANEL, SUBPANELS, MOTOR AND HVAC DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
14. PROVIDE A WARNING SIGN CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.
15. CONTRACTOR SHALL SIZE ALL INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
16. ALL TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED 100 AMPERES OR LESS SHALL BE RATED AT 60°C. ALL TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED OVER 100 AMPERES SHALL BE RATED AT 75°C PER CEC 110.14(C).
17. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATINGS TO BE USED IS LOWER THAN MAIN SERVICE RATINGS.
18. CONTRACTOR SHALL PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN MULTIWIRE BRANCH CIRCUITS PER CEC 210.4(B).
19. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM. VERIFY EXACT AIC RATINGS WITH P64E PRIOR TO BID FOR ALL EQUIPMENT.
20. MINIMUM COVERAGE FOR UNDERGROUND CONDUIT TO BE 24", UNLESS NOTED OTHERWISE. PROVIDE MINIMUM OF 12" SEPARATION BETWEEN THE POWER AND ALL LOW VOLTAGE CONDUITS. COMPLY WITH 2022 CEC 300.5.
21. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER CEC 230.8.

SCOPE OF WORK

1. (E) GENERATOR TRANSFER SWITCH & PANEL 'EM' TO BE DISCONNECTED AND REMOVED. TO BE REPLACED WITH NEM.
2. (E) PANEL 'DP' TO BE DISCONNECTED AND REMOVED. ALL (E) LOADS TO BE RECONNECTED TO (N) PANEL 'DP'. REUSE ALL (E) CONDUIT & WIRE.
3. INSTALL (N) GENERATOR, TRANSFER SWITCH AND NEW PANEL 'EM'. CONNECT (E) LOADS TO PANEL AS INDICATED ON SHEET E1.1 PANEL SCHEDULE.

SYMBOLS LIST

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED IN CEILING
	LIGHTING FIXTURE, RECESSED MOUNTED IN CEILING
	LIGHTING FIXTURE, SURFACE MOUNTED ON WALL
	LIGHTING FIXTURE, RECESSED, T-BAR LAY-IN OR FLANGED IN CEILING
	LIGHTING FIXTURE, SURFACE MOUNTED ON CEILING
	STRIP LIGHTING FIXTURE, SURFACE OR CHAIN HUNG ON CEILING
	EXIT LIGHT FIXTURE, WALL MOUNTED WITH ARROWS AS SHOWN
	EMERGENCY LIGHT
A	FIXTURE TAG - 'A' DENOTES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE
	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V AT +48" MAX (TOP OF BOX)
	THREE WAY TOGGLE SWITCH 20A, 120-277V AT +48" MAX (TOP OF BOX)
	SUBSCRIPT DENOTES OUTLET OR FIXTURE CONTROLLED AT +48" MAX (TOP OF BOX)
	DIMMING SWITCH 20A, 120-277V AT +48" MAX (TOP OF BOX)
	SINGLE OCCUPANCY SENSOR SWITCH WALL MOUNTED AT +48" MAX (TOP OF BOX), NLIGHT #NSX2PMH 120/277V. 'D' DENOTES DIMMER
	DUAL LEVEL OCCUPANCY SENSOR SWITCH WALL MOUNTED AT +48" MAX (TOP OF BOX), NLIGHT #NSX2PMH 120/277V. 'D' DENOTES DIMMER
	DUAL TECHNOLOGY OCCUPANCY SENSOR NIGHT #NCPDPT9(RLB) OR EQUAL
	DIMMING/RELAY PACK, 16A 120/277V, WITH 0-10VDC DIMMING, ACUITY #mPP16D
	PLUG LOAD/RELAY PACK, 16A 120/277V, ACUITY #mPP20PL
	FOURPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX)
	DUPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX)
	MOUNT OUTLET ABOVE COUNTER OR BACKSPASH
	DUPLEX RECEPTACLE OUTLET 20A, 125V, CEILING MOUNTED
	208V 3 PH RECEPTACLE OUTLET
	208V 1 PH RECEPTACLE OUTLET
	DUPLEX RECEPTACLE FLOOR OUTLET 20A, 125V FLUSH IN FINISH FLOOR WITH BRASS TRIM
	DUPLEX RECEPTACLE OUTLET 20A, 125V, +15" MIN (BOTTOM OF BOX), ISOLATED GROUND
	TELEPHONE/COMPUTER OUTLET WALL/FLOOR MOUNTED/STUB 3/4" C-MT TO ABOVE ACCESSIBLE CL6
	DATA/TV OUTLET WALL/FLOOR MOUNTED/STUB 3/4" C-MT TO ABOVE ACCESSIBLE CL6
	MAIN SWITCHBOARD
	LIGHTING OR DISTRIBUTION PANEL
	TERMINAL CABINET
	JUNCTION BOX
	PULL BOX
	MOTOR STARTER, SEE MP45. CONNECT AS REQUIRED
	HEAVY DUTY SAFETY TYPE DISCONNECT SWITCH, SIZE & NEMA TYPE AS REQUIRED, F=FUSED
	MOTOR - MP45
	EXHAUST FAN - MP45
	MECHANICAL EQUIPMENT I.D. TAG - MP45
	FLAG NOTE SHOWN ON SAME SHEET
	CIRCUIT CONCEALED IN CEILING OR WALL
	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
	EXISTING CIRCUIT
	LOW VOLTAGE CABLE
	HOME RUN TO PANELBOARD OR TERMINAL CABINET
	DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2" C, CURVED HATCH DENOTES EQUIPMENT GROUND, DOT DENOTES ISOLATED GROUND, OTHERS AS NOTED
	TELEPHONE TERMINAL BOARD "TTB": 4'x8'x3/4" PLYWOOD BACKBOARD WITH FOURPLEX RECEPTACLE & (1) #6 GND, UON

NOTE:
SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CL6	CEILING
(E)	EXISTING
EM	DENOTES EMERGENCY FIXTURE. PROVIDE WITH 90-MINUTE BATTERY BACK-UP BALLAST, SEE LIGHTING PLANS FOR LOCATIONS AND QUANTITIES.
GFCL	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
MP45	SEE MECHANICAL PLANS & SPECIFICATIONS
MT	EMPTY CONDUIT WITH NYLON PULL ROPE
(N)	NEW
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS
NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
PFB	PROVISION FOR FUTURE BREAKER
PNL	PANELBOARD
(R)	RELOCATED
TTB	TELEPHONE TERMINAL BOARD
(TYP)	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF, RECEPTACLE COVERS SHALL BE "WEATHERPROOF WHILE IN USE". (CEC 406.9)



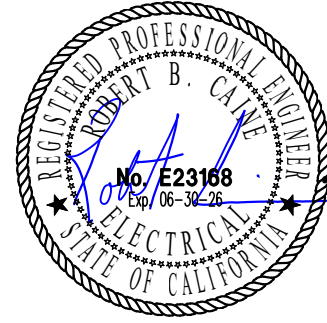
CAPITOL CITY DESIGN, INC.

Electrical Engineering
Consultants

1751 Cebrarian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

Jul 01 2026



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

PCC #1 07/01/2026

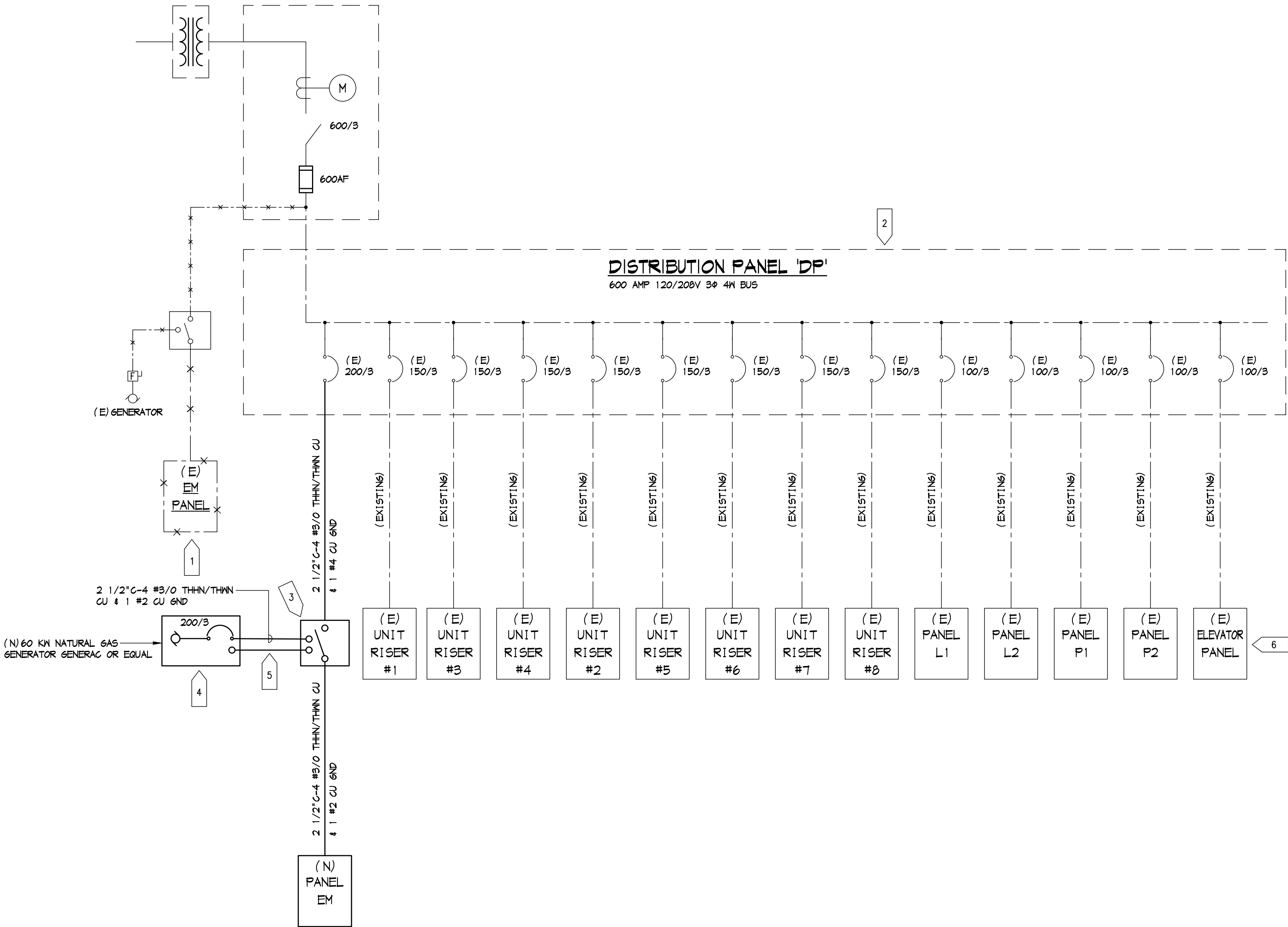
sheet title

SYMBOLS LIST GENERAL NOTES PANEL SCHEDULES

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E1.0

C:\seda\Projects\2026-002 Contra Costa Housing Authority Generator\2002-E1.dwg Time:Apr01,2026--11:56am Login:Kyleb Dinsdale:1 LTScale:0.5 Images: Xrefs: "Xrefs\chd 24.cad.dwg"
These plans and specifications shall not be reproduced or modified in whole or in part without written consent from Capital City Design Inc. Furthermore, Capital City Design Inc. disclaims responsibility for these plans and specifications if they are used in whole or in part at any site other than the one for which they were specifically prepared.



(E) ONE LINE DIAGRAM

NOT TO SCALE

- EXISTING 'EM' PANEL. TRANSFER SWITCH AND GENERATOR TO BE DISCONNECTED AND REMOVED. (E) CIRCUITS IN PANEL 'EM' TO BE REROUTED TO (N) PANEL 'EM'.
- EXISTING DISTRIBUTION PANEL TO BE DISCONNECTED AND REPLACED WITH NEW 600 AMP PANEL. RECONNECT ALL (E) LOADS AS NEEDED. REUSE ALL (E) CONDUIT & WIRE. ADD NEW AS NEEDED TO COMPLETE RECONNECTION TO NEW PANEL.
- PROVIDE (N) 200 AMP 120/208V 3 4W AUTO TRANSFER SWITCH.
- PROVIDE (N) NATURAL GAS GENERATOR. GENERAC #
- PROVIDE 1" C-MT FOR CONTROLS FROM GENERATOR TO TRANSFER SWITCH
- (E) ELEVATOR PANEL FEED TO BE REROUTED TO (N) PANEL 'EM'

(N) PANEL 'EM'									
VOLTAGE: 120/208V 3Φ 4W				MOUNTING: SURFACE				KVA: 41.24	
BUS: 225 AMP				TYPE: MLO				CURRENT: 115 AMPS	
LOAD				KVA	CB	NO	NO	CB	KVA
ELEVATOR				32.0	100	1	2	20	0.02
						3	4		0.20
						5	6		1.2
GENERATOR CONTROLS				0.02	20	7	8		1.2
GENERATOR BLOCK HEATER				1.8	20	9	10		1.2
SPARE					20	11	12		1.2
					20	13	14		1.2
						15	16		1.2
						17	18	PTB	SPACE
SPACE					PTB	19	20		
						21	22		
						23	24		
						25	26		
						27	28		
						29	30		



CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

Apr 01 2026



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

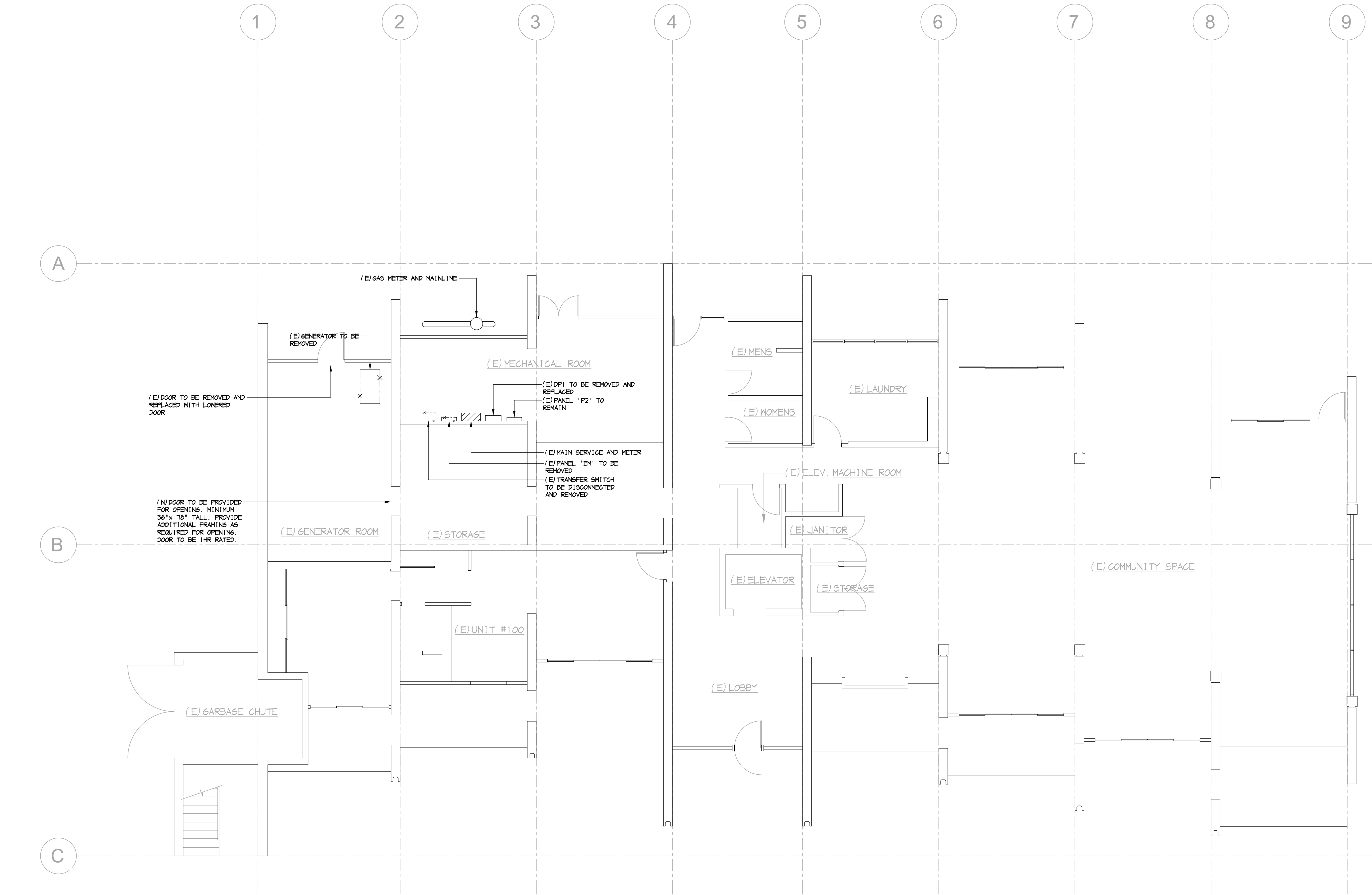
sheet title

SYMBOLS LIST GENERAL NOTES PANEL SCHEDULES

job no 2026-002
date 03/16/2026
designer TB
drafter KB

E1.1

C:\Users\Projects\2026-002 Contra Costa Housing Authority\26002-E2.0.dwg Time: May 04, 2026 - 02:24pm Login: Kyle Dimascale64 LTScale: 0.5 Images: Xrefs: "Xrefs\chd 24 cad.dwg" Xrefs\CCD - San Pablo Housing - Floor Plan - Level 1.dwg
These plans and specifications shall not be reproduced or modified in whole or in part without written consent from Capital City Design Inc. Furthermore, Capital City Design Inc. disclaims responsibility for these plans and specifications if they are used in whole or in part at any site other than the one for which they were specifically prepared.



DEMOLITION FLOOR PLAN - POWER

SCALE: 3/16" = 1'-0"



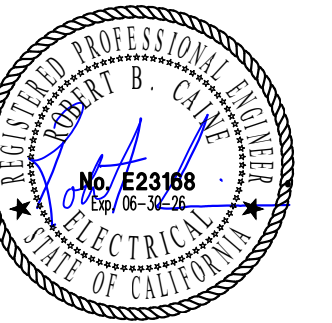
CAPITOL
CITY
DESIGN, INC.

Electrical Engineering
Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

May 04 2026



electrical contractor

project title

CONTRA COSTA
HOUSING
AUTHORITY

revisions

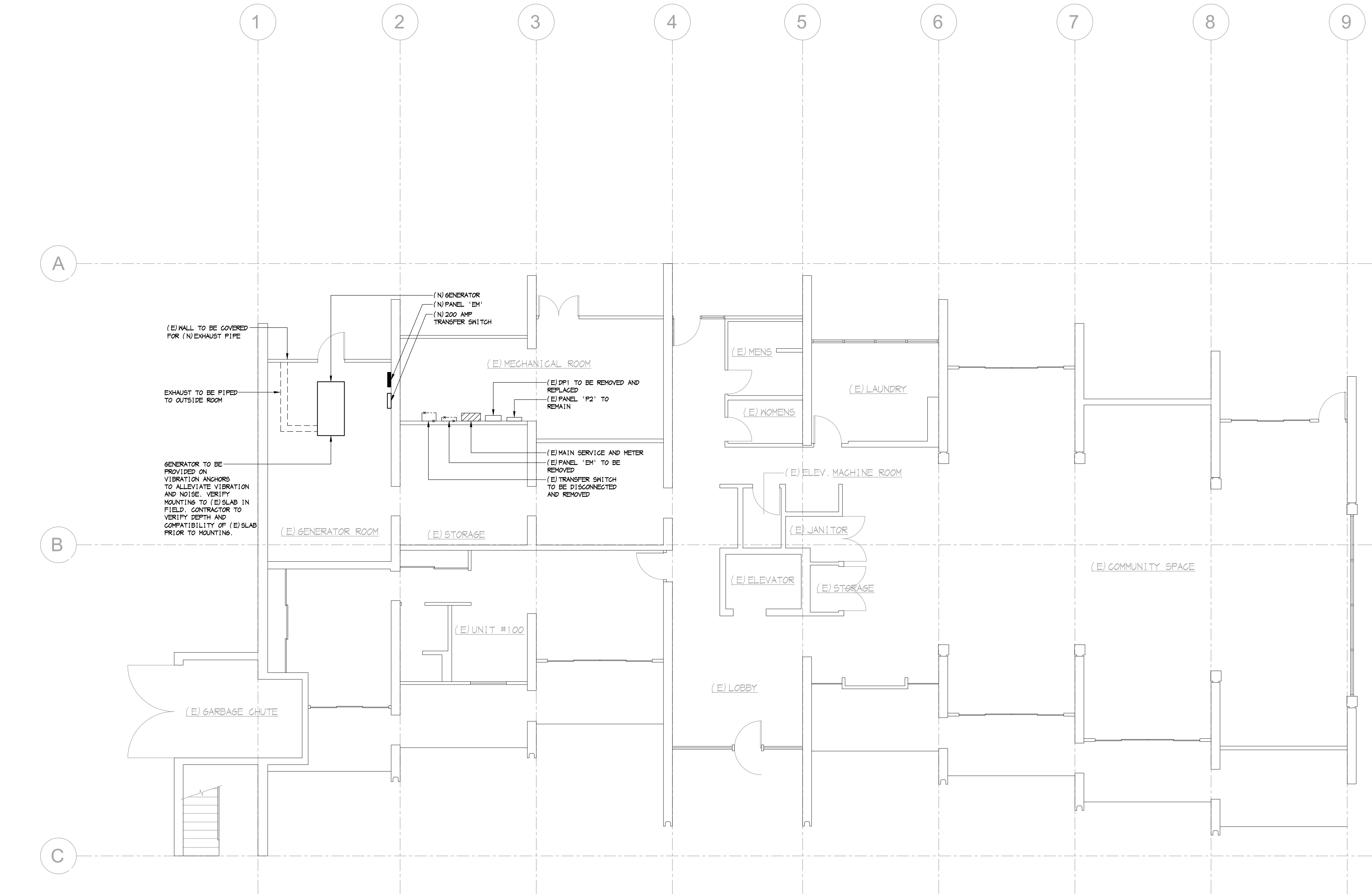
sheet title

DEMOLITION FLOOR
PLAN - POWER

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E2.0

C:\Users\Projects\2026-002 Contra Costa Housing Authority\Drawings\26002-E3.0.dwg Time: May 04, 2026 - 02:28pm Login: Kyle Dimascale: 64 LITscale: 0.5 Images: Xrefs: "Xrefs\chd 24 cad.dwg" Xrefs\CCD - San Pablo Housing - Floor Plan - Level 1.dwg
These plans and specifications shall not be reproduced or modified in whole or in part without written consent from Capital City Design Inc. Furthermore, Capital City Design Inc. disclaims responsibility for these plans and specifications if they are used in whole or in part at any site other than the one for which they were specifically prepared.



FLOOR PLAN - POWER

SCALE: 3/16" = 1'-0"



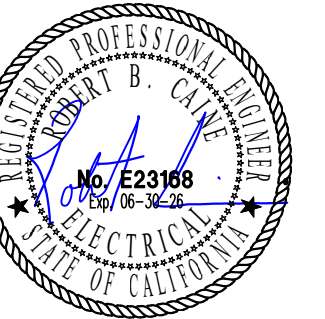
CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

May 04 2026



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

sheet title

FLOOR PLAN - POWER

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

E3.0

C:\Users\james\Documents\2026-002 Contra Costa Housing Authority Generator\2002-E4.0.dwg Time: May 04, 2026 - 02:34pm Login: Kyle Dimasdel 1 LTScale: 0.5 Images: Xrefs: "Xrefs" vba 24 cad dwg These plans and specifications shall not be reproduced or modified in whole or in part without written consent from Capital City Design Inc. Furthermore, Capital City Design Inc. disclaims responsibility for these plans and specifications if they are used in whole or in part at any site other than the one for which they were specifically prepared.

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

Standby Power Rating

70 kW, 88 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact your Generac Industrial dealer or sales representative for details.

- 

UL2200, UL1236, UL489



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



IBC 2015, IBC 2018, ASCE 7-10, ASCE 7-16, ICC-ES, AC-156 (2018)

Powering a Smarter World

For over 65 years, Generac has been at the forefront of power generation, pioneering innovative solutions and unparalleled manufacturing excellence. At the heart of our reputation for superior quality lies our commitment to meticulously designing and manufacturing key components of our generators—ranging from alternators and enclosures to base tanks, control systems, and cutting-edge communications software.

Generac's gensets stand out for their unparalleled versatility and reliability. Engineered to offer a wide range of options and configurations, they are tailored to meet the unique demands of virtually any application, seamlessly adapting to its complexity. Our commitment to reliability drives us to globally source only the most dependable engines, selected through stringent criteria for optimal performance under the toughest industrial conditions.

Beyond the sale, Generac's dedication to our customers extends to comprehensive service support, for peace of mind and reliability long after your purchase. Our commitment is to not only provide state-of-the-art power solutions but also enduring success and satisfaction of our customers through ongoing support and service excellence.

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
 - Heavy Duty Air Cleaner
 - Fan and Belt Guards
 - Stainless Steel Flexible Exhaust Connection
 - Factory Filled Oil and Coolant
 - Critical Silencer
 - Oil Temperature Sender with Alarm
 - Air Filter Restriction Sensor

FUEL SYSTEM

- NPT Fuel Connection on Frame
 - Primary and Secondary Fuel Shutoff
 - Fuel Inlet Pressure Sensor
 - Vaporizer for Propane Liquid

COOLING SYSTEM

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

ELECTRICAL SYSTEM

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

ALTERNATOR SYSTEM

- UL2200 GENprotect™
 - Class II Insulation Material
 - 2/3 Pitch
 - Skewed Stator
 - Brushless Excitation
 - Sealed Bearing
 - Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
 - Separation of Circuits - High/Low Voltage
 - Wrapped Exhaust Piping
 - Standard Factory Testing
 - 2 Year Limited Warranty
 - E-Stop

ENCLOSURE (IF SELECTED)

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

CONTROL SYSTEM

DSE G8001 CONTROLLER



KEY FEATURES

- Advanced PLC Functionality
 - Multi-Purpose PIDs
 - Virtual Inputs
 - On-Screen Mimic (SLDs)
 - Multiple Application Support
 - Multi-Level Pin Protected Front Panel Editor
 - Integral LCD Display Heater
 - Enhanced High-Resolution 240 x 128 Pixel Display
 - Single Generator Control
 - Latest ECU/ECM Support
 - Touch Screen Panel PC Support
 - Zero Sequence Voltage Protection
 - Integral Gasket (IP65 protection)
 - Temperature Rating -22 °F to 122 °F (-30 °C to 50 °C)

GOVERNOR FUNCTIONALITY

- Speed Control through ECM Integration
 - Soft Start Ramping (Multiple Steps)

STANDARD PROTECTIONS

- Low Coolant Level
 - High/Low Coolant Temperature

12 Digital Inputs

9 Active Low Digital Outputs

CUSTOMER PORTS

- Ethernet
 - 2 RS-485
 - 2 USB
 - CANbus

CODES AND STANDARDS

- CE
 - NFPA 110 Capable

MORE FEATURES

- Auto Off/Manual
 - Built-in Governor
 - Digital AVR Support
 - Multiple Language Support
 - Three-Phase Generator Sensing and Protection
 - Three-Phase Bus Sensing
 - Generator Current, Protection and Power Monitoring
 - Configurable Timers
 - Integrated SNMP
 - Data Logging
 - PC Configuration
 - DSENet® (Expansion Support)
 - Flexible I/O (Inputs/Outputs)
 - Automatic and Front Panel Breaker Control
 - Power-Save Mode

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Fluid Containment Pan
 - Engine Coolant Heater with Shutoff Valves
 - Oil Heater
 - Radiator Dust Adapter (Open Set Only)
 - Two-Stage Heavy Duty Air Cleaner
 - Critical Grade Silencer
 - Baseframe Cover/Rocket Guard
 - Crankcase Ventilation Heater (Recommended at Operating Temperatures of 0° F)

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
 - 8 Position Load Center
 - IBC Seismic Certification (Contact Factory for Availability)
 - OSHPD Seismic Certification (Contact Factory or Availability)
 - Elevated Stand
 - Past Vibration Isolators
 - Spring Vibration Isolators

CONTROL SYSTEM

- NFPA 110 Compliant 2-Light Remote Annunciator
 - Remote Relay Assembly (8 or 16)
 - Remote E-Stop (Break Glass-Type, Surface Mount)
 - Remote E-Stop (Red Mushroom-Type, Surface Mount)
 - Remote E-Stop (Red Mushroom-Type, Flush Mount)
 - 10A Engine Run Relay
 - Ground Fault Annunciator
 - 120 V GFCI Outlets
 - 100 dB Alarm Horn
 - Damper Alarm Contacts (with Motorized Dampers Only)
 - Spare Inputs/Outputs

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Battery Charger
 - Battery Warmer

ALTERNATOR SYSTEM

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

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
 - 2nd Main Line Circuit Breaker
 - 3rd Main Line Circuit Breaker
 - Shunt Trip and Auxiliary Contact
 - Electronic Trip Breakers

REMOTE MONITORING AND CONTROL

- Generac Link Manager

ENCLOSURE

- Weather Protected Enclosure
 - Level 2 Sound Attenuated
 - Level 2 Sound Attenuated with Motorized Dampers
 - Steel Enclosure
 - Aluminum Enclosure
 - Up to 105 MPH Wind Load Rating (Contact Factory for Availability)
 - Enclosure LED Lighting Kit
 - Enclosure Heaters (with Motorized Dampers Only)
 - Door Open Alarm Horn
 - High Velocity Hurricane Zone (HHVZ)

WARRANTY (STANDBY GENSETS ONLY)

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

ENGINEERED OPTIONS

CONTROL SYSTEM

- Battery Disconnect Switch

GENERATOR SET

- Special Testing
 - Battery Box

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in³ (L)	270.4 (4.43)
Bore - in (mm)	4.5 (114.3)
Stroke - in (mm)	4.28 (107.95)
Compression Ratio	9.1:1
Intake Air Method	Turbocharged
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25

Lubrication System

Oil Pump	Gear Driven
Oil Filter Type	Full Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	21 (20)

ALTERNATOR SPECIFICATIONS

Standard Model	K0080124Y21
Poles	4
Field Type	Revolving
Insulation Class - Motor	H
Insulation Class - Stator	H
Total Harmonic Distortion (THD)	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation

Synchronous Brushless	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensing Phases	All
Regulation Accuracy (Steady State)	±0.25%

COOLING SYSTEM

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed (RPM)	2,100
Fan Diameter - in (mm)	22 (533)

Fuel System

Fuel Type	Natural Gas & Propane Vapor; Propane Liquid
Fuel Control	Electronic
Fuel Shutoff	Dual
Operating Fuel Pressure (NG) - in H ₂ O (kPa)	5 - 14 (1.2 - 3.5)
Operating Fuel Pressure (LP) - in H ₂ O (kPa)	7 - 14 (1.7 - 3.5)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 016197058Y
Battery Voltage	12 VDC
Ground Polarity	Negative (-)

POWER RATINGS

STARTING CAPABILITIES (kVA)

120/240 VAC 1Ø		30% 277/480 VAC 3Ø		30% 208/240 VAC 3Ø		30%	
A0080044N21	58	K0080124Y21	112	K0080124Y21	132		
A0100044N21	67	K0100124Y21	227	K0100124Y21	171		

FUEL CONSUMPTION RATES*

Natural Gas - scfh (m³/hr)		Liquid Propane - Liquid gal/hr (L/hr)	
Percent Load	Standby	Percent Load	Standby
25%	414 (11.7)	25%	2.5 (9.6)
50%	632 (18)	50%	5.1 (19.1)
75%	882 (25)	75%	7.6 (28.7)
100%	1184 (33)	100%	10.1 (38.5)

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

OPERATING DATA

POWER RATINGS

Standby	
Single-Phase 120/240 VAC @1.0Ø	70 kW/70 kVA Amps: 292
Three-Phase 120/208 VAC @0.8Ø	70 kW/88 kVA Amps: 243
Three-Phase 277/480 VAC @0.8Ø	70 kW/88 kVA Amps: 105
Three-Phase 346/600 VAC @0.8Ø	70 kW/88 kVA Amps: 84

STARTING CAPABILITIES (kVA)

120/240 VAC 1Ø		30% 277/480 VAC 3Ø		30% 208/240 VAC 3Ø		30%	
A0080044N21	58	K0080124Y21	112	K0080124Y21	132		
A0100044N21	67	K0100124Y21	227	K0100124Y21	171		

FUEL CONSUMPTION RATES*

Natural Gas - scfh (m³/hr)		Liquid Propane - Liquid gal/hr (L/hr)	
Percent Load	Standby	Percent Load	Standby
25%	414 (11.7)	25%	2.5 (9.6)
50%	632 (18)	50%	5.1 (19.1)
75%	882 (25)	75%	7.6 (28.7)
100%	1184 (33)	100%	10.1 (38.5)

COOLING

Standby	
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m³/min) 4,343 (123)
Coolant Flow	gpm (Lpm) 24 (90)
Coolant System Capacity	gal (L) 9 (34)
Maximum Operating Ambient Temperature	°F (°C) 122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 01992705SD
Maximum Radiator Backpressure	in H ₂ O (kPa) 0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Standby	
Flow at Rated Power - cfm (m³/min)	157 (4.4)

ENGINE

Standby		EXHAUST	
*Rated Engine Speed	RPM 1,800	Exhaust Flow (Rated Output)	cfm (m³/min) 390 (11.0)
Horsepower at Rated kW**	hp 113	Maximum Exhaust Back Pressure - (Post Silencer)	inHg (kPa) 0.75 (2.54)
Piston Speed	ft/min (m/min) 1,275 (389)	Exhaust Temperature	°F (°C) 1,382 (739)
BWEP	psi (kPa) 188 (1,296)		

SG070 | 4.5L | 70 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certification Pending Stationary

GENERAC INDUSTRIAL ENERGY

DIMENSIONS AND WEIGHTS*

OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	92.9 (2,359.7) x 39.5 (1,003) x 46.1 (1,171.4)
Weight - lbs (kg)	1,967 - 2,250 (892-1,021)

WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	120.9 (3,076) x 40.5 (1,027.7) x 68.4 (1,739)
Weight - lbs (kg)	Steel: 2,705-2,989 (1,227-1,356) Aluminum: 2,353-2,638 (1,068-1,196)

LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	120.9 (3,076) x 40.5 (1,028) x 68.4 (1,739)
Weight - lbs (kg)	Aluminum: 2,502-2,785 (1,115-1,263)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

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

CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrarian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer

May 04 2026

electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

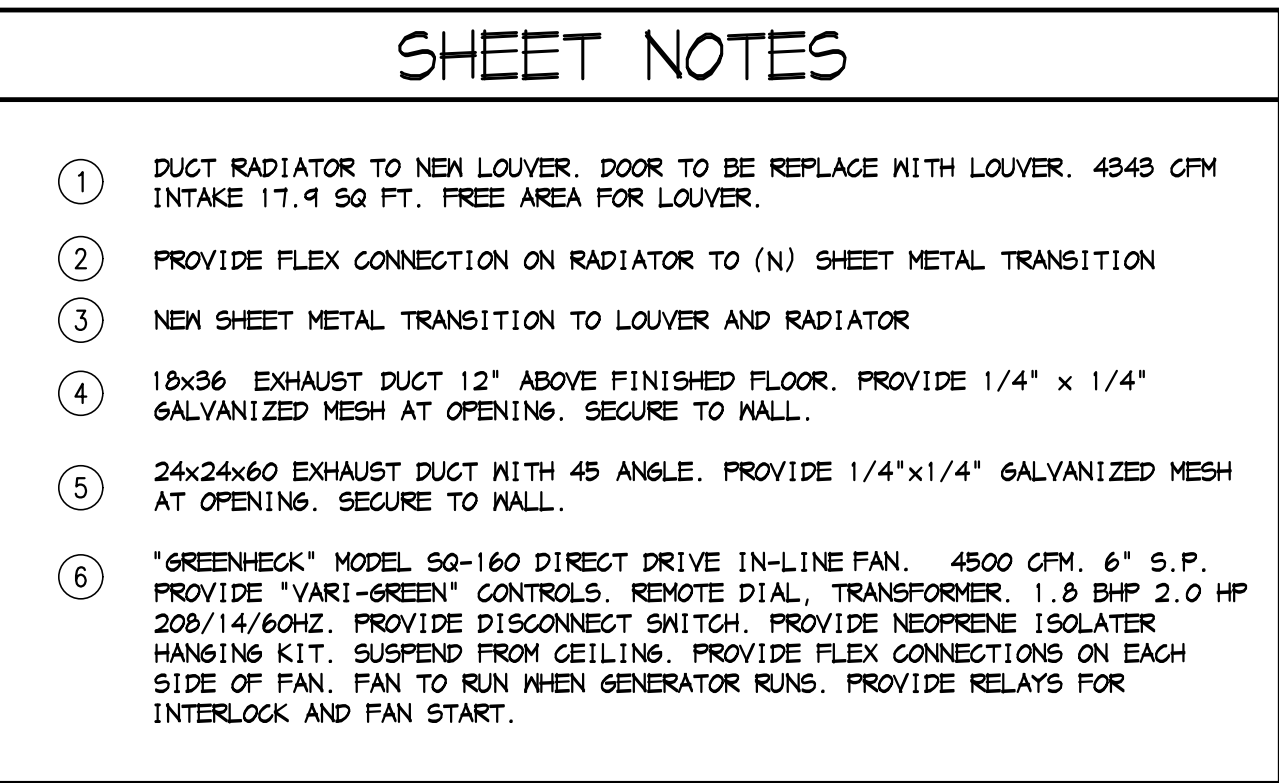
revisions

sheet title

GENERATOR SPECS

job no 2026-002
date 03/16/2026
designer TB
drafter KB

E4.0



1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The inner circle contains the name "BRIAN J. PROVENCAL" at the top, the license number "No. M030446" and expiration date "Exp. 12/31/27" in the center, and the word "MECHANICAL" at the bottom.

project title

CONTRA COSTA
HOUSING
AUTHORITY

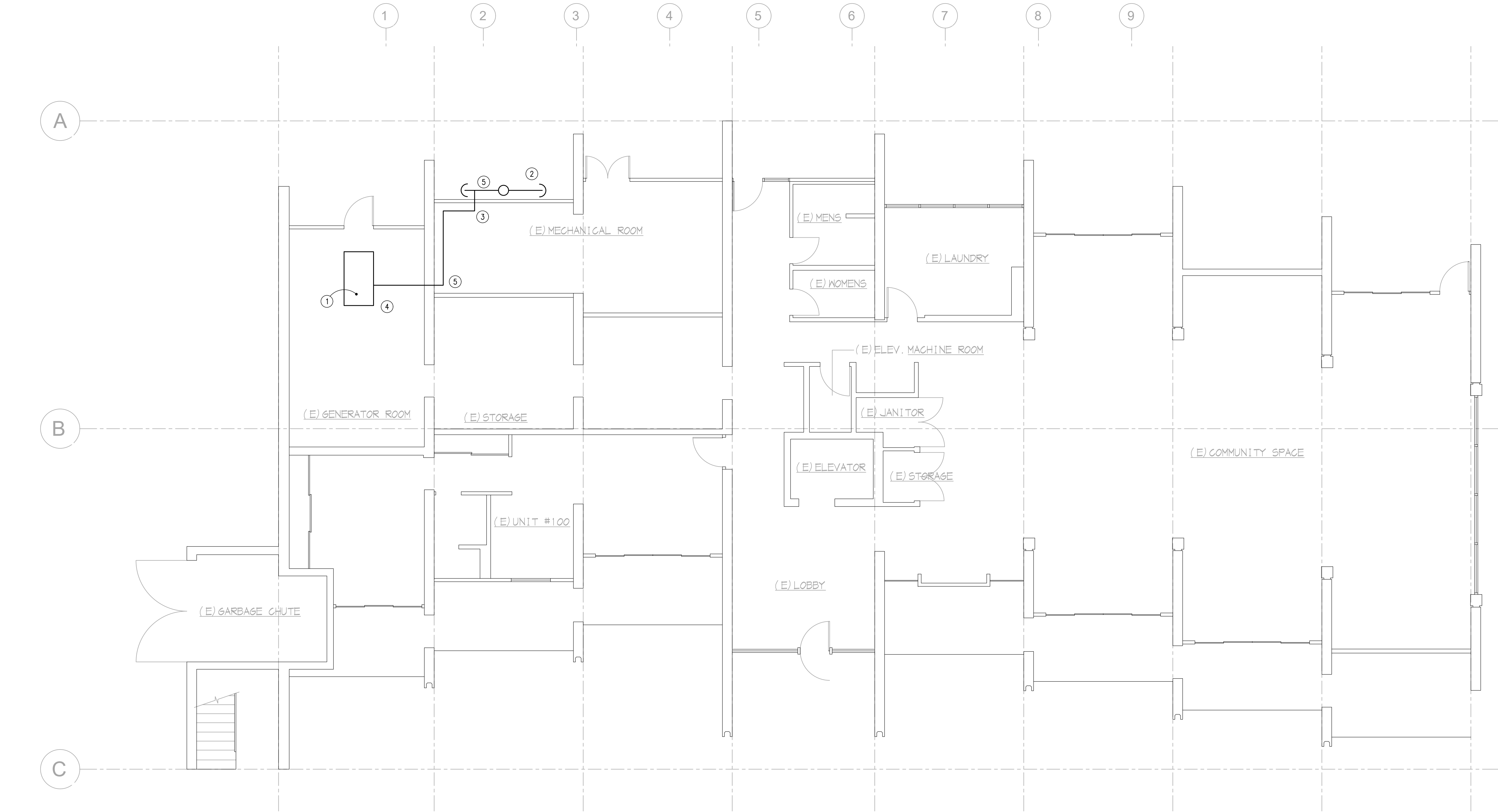
sheet title

job no 2026-002
date 03/16/2026
designer TB
drafter KB

M1.0

SCALE: 3/16" = 1'-0"

C:\Users\Projects\2026-002 Contra Costa Housing Authority\Exterior\26002-E1-2.dwg Time: Apr 23, 2026 - 02:49pm Login: Kyle Dimascale: 64 L1Scale: 0.5 Images: Xrefs: "Xrefs\chd 24_cad.dwg" Xrefs\CCD - San Pablo Housing - Floor Plan - Level 1.dwg
These plans and specifications shall not be reproduced or modified in whole or in part without written consent from Capital City Design Inc. Furthermore, Capital City Design Inc. disclaims responsibility for these plans and specifications if they are used in whole or in part at any site other than the one for which they were specifically prepared.



SHEET NOTES	
①	GENERATOR 1164 CFH NATURAL GAS.
②	GAS METER LOCATION. CONTRACTOR TO CONFIRM CAPACITY OF ADDITIONAL LOAD (1164 CFH) ON METER
③	NEW 2" GAS-LINE CONNECT TO (E) METER. LINE SIZED PER TABLE 1215.2(1). 60FT COLUMN 2025 CPG.
④	NEW 2" GAS CONNECT TO (N) GENERATOR WITH SHUT-OFF GLOCK, DIRT LEG AND FLEXIBLE CONNECTION.
⑤	PROVIDE CONCRETE BORES AS REQUIRED FOR ROUTING OF NEW GAS PIPING.



CAPITOL CITY DESIGN, INC.

Electrical Engineering Consultants

1751 Cebrian Street
West Sacramento CA 95691
916.375.0135
916.375.0773 fax
www.capcitydesign.com

electrical engineer



electrical contractor

project title

CONTRA COSTA HOUSING AUTHORITY

revisions

sheet title

FLOOR PLAN - PLUMBING

job no	2026-002
date	03/16/2026
designer	TB
drafter	KB

P1.0

FLOOR PLAN - PLUMBING

SCALE: 3/16" = 1'-0"