NAPA COUNTY
DEPARTMENT OF PUBLIC WORKS
Capell 214 and Pope 220 Fire Stations Emergency Generators, PW 22-21
2386 Stage Coach Canyon Rd and 1251 Steele Canyon Rd, Napa County, CA

GENERAL CONSTRUCTION NOTES:
1. Contractor agrees to assume sole and complete responsibility for the job site during the course of construction of this project, including safety of all persons and property in the vicinity of the work, and hold the County, and its representatives harmless from any and all liability, real or alleged, in connection with the performance of work under this contract.
2. Contractor shall be held responsible for any and all damages to existing structures and utilities during construction.
3. Contractor shall verify locations, levels, distances, and features that affect the work. Should existing conditions differ from those referred to in the plans or specifications, or if it appears that these plans, standard specifications, or special provisions do not adequately indicate the work to be done, the contractor shall notify the engineer prior to continuing with related work. No allowance will be made in contract price, or in settlement by arbitration or legal proceedings, resulting from failure or neglect in determining the conditions under which work is to be performed. Noted dimensions or areas are not to be used as a basis of settlement.
4. A set of signed working drawings and a set of specifications will be kept at all times at the job site on which all changes or variations in the work, including all existing changes, are to be recorded and/or corrected daily and submitted to the County Engineer when the work is to be done is completed.
5. Contractor shall provide and maintain sufficient temporary barriers to provide for the safety of the staff and public to the satisfaction of the Public Works Director and County Staff.
6. Contractor shall contact the County/City Public Works Director, or his/her designee, to arrange a pre-conference for the purpose of reviewing job requirements and County procedures.
7. All materials shall be furnished and installed by the contractor unless otherwise noted.
8. Contractor shall provide all necessary staff placements, if required, to facilitate making areas ready for work.
9. Contractor shall notify the Director of Public Works at least 72 hours in advance of commencement of any part.
10. Contractor shall coordinate construction schedule with Engineer to minimize impact to tenants.
11. Contractor is responsible for procuring and paying for any Encroachment and/or Transportation Permits.
12. Contractor shall work on the weekend only if required by any permits.

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NOTE: All dimensions are approximate and subject to change.

COAR
OMAHONY & MYER
CONTRACTING ENGINEERS
1250 MALIBU RD
T-1
NAPA COUNTY
CAPELL 214 AND POPE 220 EMERGENCY GENERATORS
PW 22-21

NOTE: All dimensions are approximate and subject to change.

SHEETS: 10

PAGE: 1

SCALE: 1/4"=1'-0"
ELECTRICAL EQUIPMENT ANCHORAGE

GENERAL NOTES

1. PRIOR TO USING THE CONTRACTOR SHALL VISIT THE SITE TO SUFFICIENTLY DETERMINE ALL EQUIPMENT ANCHORAGE REQUIREMENTS TO ALLOCATE TO THE LOCATION SPECIFIC REQUIREMENTS.
2. 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NUMBERED SHEET NOTES

1. (E) EQUIPMENT TO REMAIN PROTECT IN PLACE.

2. SEE E5.1 FOR (N) AUTOMATIC TRANSFER SWITCH TO BE INSTALLED IN PLACE OF (E) NEMA 3R ENCLOSURE.

3. WALL MOUNT BETWEEN (E) RAIN LEADER AND (E) MAIN SERVICE PANEL.

4. FIELD LOCATE AND MANDREL (E) RACEWAYS BETWEEN SERVICE LOCATION AND GENERATOR LOCATION.

5. UTILIZE FOR (N) GENERATOR POWER FEEDER AND GENERATOR BATTERY CHARGER/JACKET HEATER 120V CIRCUITS AS SHOWN. CONNECT ALL COMPLETE AT BOTH ENDS, INCLUDING ADDITIONAL REQUIRED CONDUIT EXTENSIONS AND COUPLINGS/CONNECTORS FOR FULL TERMINATIONS.

6. INSTALL GENERATOR OVER (E) RACEWAY STUB-UPS. VERIFY EXACT STUB-UP WINDOW OF SUPPLIED GENERATOR WITH ACTUAL GENERATOR TO BE INSTALLED, PRIOR TO INSTALLATION.

7. BASIS OF DESIGN FOR GENERATOR IS GENERAC 30KW MODEL #RD030 (120/240V, 1PH, 3W), WITH 132 GALLON DIESEL BELLY TANK, AND NON-SERVICE RATED AUTOMATIC TRANSFER SWITCH MODEL #RXSC200A3 (200A, 120/240V, 1PH, 3W).

8. (E) UNDERGROUND RACEWAYS:
   (1) 2" (GENERATOR POWER)
   (1) 3/4" (CHARGER/HEATER CIRCUITS)
   (1) 1" (SPARE)

9. (E) MAIN SERVICE PANEL (TO REMAIN)

10. (E) AT&T SERVICE CABINET (TO REMAIN)

11. (E) PANEL 'A' (TO REMAIN)

12. (E) NEMA 3R BOX (TO BE REMOVED)

13. (N) 'ATS'

14. SITE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"
NUMBERED SHEET NOTES

1. DISCONNECT AND REMOVE (1) LOAD SIDE #4G IN 1/2" C. FROM (E) MAIN SERVICE DISCONNECT AND PANEL 'A' BREAKER BOXES.

2. TERMINATE (3) FEEDER AT LOAD SIDE OF (E) MAIN SERVICE DISCONNECT.

3. TERMINATE (1) #4G IN 1/2" C. AT PANEL 'A' BREAKER BOX.

4. PROVIDE AND INSTALL (E) MAIN SERVICE PANEL 'A' INSIDE BUILDING.

5. PROVIDE AND INSTALL (E) UNDERGROUND PG&E SECONDARY DISTRIBUTING SERVICE METER BASE PLATE WITH 200A 2P CIRCUIT BREAKER AND CONNECT TO (E) MAIN SERVICE PANEL AT PANEL 'A'. PROVIDE AND INSTALL (E) UNDERGROUND PG&E SECONDARY DISTRIBUTING SERVICE METER BASE PLATE WITH 200A 2P CIRCUIT BREAKER AND CONNECT TO (E) MAIN SERVICE PANEL AT PANEL 'A'.

6. TERMINATE (N) FEEDER AT SUPPLY SIDE OF (E) PANEL 'A' MAIN LUGS OR BREAKER.

7. PROVIDE AND INSTALL (N) WALL MOUNTED 'ATS' ADJACENT TO (E) MAIN SERVICE PANEL, IN PLACE OF NEMA 3R PULL BOX REMOVED.

8. PROVIDE AND INSTALL (N) 'ATS' EMERGENCY SIDE FEEDER CONDUCTORS IN (E) RACEWAY ALREADY INSTALLED UNDERGROUND TO THE REAR OF THE BUILDING. SEE SITE PLAN E1.1 FOR APPROXIMATE LENGTH AND LOCATION.

9. PROVIDE AND INSTALL (N) PAD MOUNTED GENERATOR AT LOCATION OF (E) CONDUIT STUB-OUTS AT REAR CONCRETE PAD AREA. SEE SITE PLAN E1.1 FOR LOCATION.

10. PROVIDE AND INSTALL (N) GENERATOR BATTERY CHARGER AND JACKET HEATER CIRCUITS IN (E) RACEWAY ALREADY INSTALLED UNDERGROUND TO THE REAR OF THE BUILDING. SEE SITE PLAN E1.1 FOR APPROXIMATE LENGTH AND LOCATION. CONNECT COMPLETE TO (N) CIRCUIT BREAKERS IN (E) PANEL 'A'. SEE NOTE 9.

11. PROVIDE AND INSTALL (2) NEW 20A/1P CIRCUIT BREAKERS IN (E) PANEL 'A' AVAILABLE SPACE. (N) BREAKERS TO MATCH (E) IN MANUFACTURER AND AIC RATING (10KAIC). UPDATE PANEL DIRECTORY TO SHOW (N) CIRCUIT IDENTIFICATIONS.

12. CAREFULLY CUT AND PATCH (E) SLAB ADJACENT TO GENERATOR FOR FLUSH GROUND ROD BOX AND CONNECTION BACK TO GENERATOR, IN AND THROUGH (E) SLAB.

13. PROVIDE ALL ADDITIONAL CONDUIT EXTENSIONS, COUPLINGS, AND/OR OTHER CONNECTORS OR MATERIALS REQUIRED TO CONNECT THE (E) CONDUIT STUB-OUTS TO THE (N) AND (E) EQUIPMENT.

14. PROVIDE AND INSTALL (N) DIESEL GENERATOR 30KW, 120/208V, 1Ø, 3W WITH 132 GALLON BASE TANK 150A/2P.

15. PROVIDE AND INSTALL (N) AUTOMATIC TRANSFER SWITCH 'ATS'; 200A/3P, 240V, 1PH (NEMA 3R)

16. PROVIDE AND INSTALL (N) WALL MOUNTED 'ATS' ADJACENT TO (E) MAIN SERVICE PANEL, IN PLACE OF NEMA 3R PULL BOX REMOVED.

17. PROVIDE AND INSTALL (N) 'ATS' EMERGENCY SIDE FEEDER CONDUCTORS IN (E) RACEWAY ALREADY INSTALLED UNDERGROUND TO THE REAR OF THE BUILDING. SEE SITE PLAN E1.1 FOR APPROXIMATE LENGTH AND LOCATION.

18. PROVIDE AND INSTALL (N) RACEWAY ALREADY INSTALLED UNDERGROUND TO THE REAR OF THE BUILDING. SEE SITE PLAN E1.1 FOR APPROXIMATE LENGTH AND LOCATION.

COPPER FEEDER SCHEDULE

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FEEDER TAG KEY

- Wire Quantity
- Feeder Ampacity
- Conduit
- Copper Feeder Schedule
- Automatic Transfer Switch
- Underground Main Service
- Single Line Diagram - Electrical

SINGLE LINE DIAGRAM - ELECTRICAL
GROUND ROD INSTALLATION

1. Conduit with insulated copper wire to equipment ground bus.
2. Top of sand backfill into (E) pad surface.
3. Grounding cable, size and type as called for on plans.
4. Copper connector sized to accommodate ground rod & cable (or exothermic weld).
5. 5/8" x 10'-0" ground rod, see specs.

GENERATOR GROUNDING AND NEUTRAL REQUIREMENTS

1. 1/2"Ø HILTI KB TZ2 expansion anchors (ICC ESR 4266), min. 2-1/2" embed. min. (4) anchors along each long edge of generator, (8) total.
2. Generator (E) concrete pad 12" min.
3. Generator (E) main service panel.
4. (N) 3-pole 240v, 1ph, automatic transfer switch.
5. (N) generator set.
6. Generator (E) grounding electrode system.
7. Ground rod, see fig. 1.
8. Grounding system:
   - Ground rod.
   - Copper connector.

GENERATOR MOUNTING DETAIL

1. Generator set.
2. Generator (E) concrete pad.
3. Generator (E) main service panel.
4. Generator (E) grounding electrode system.
5. Ground rod, see fig. 1.
6. Grounding system:
   - Ground rod.
   - Copper connector.

GROUND ROD BOX - 8 1/2" I.D. x 12"D with concrete lid, lifting slot and label "ground rod", #F8 or equal. Cut into (E) concrete pad and patch as required for flush installation.

CONTRACTOR:

COAR

NAPA COUNTY FIRE DEPARTMENT

CAPELL VALLEY STATION 214

CAPELL VALLEY ROAD NAPA, CA 94558

125 STEELE CANYON ROAD NAPA CA 94558

GENERATOR BERRYESSA HIGHLANDS

1251 STEELE CANYON ROAD, NAPA, CA 94558

JULY 5, 2022

BID SET

E7.1
**ELECTRICAL EQUIPMENT ANCHORAGE**

**ELECTRICAL EQUIPMENT ANCHORAGE**

**GENERAL NOTES**

1. Prior to bid, the contractor shall visit the site to adequately determine all pre-existing conditions. Written proposals shall be submitted in accordance with this contract. Proposal materials will be deemed in complete in accordance with the requirements of this contract. Drawings shall be submitted in accordance with the requirements of this contract.

2. Provide suitable grading details, and show all major areas of potential ground movement.

3. Verify suitably constructed, masonry or concrete masonry, and others, so that the finished product can be realized.

**SYMBOLS LIST**

**SYMBOLS LIST**

- **SYM. C**: DRAWING EXISTING
- **SYM. D**: DRAWING NEW
- **SYM. E**: DRAWING SHORT CIRCUIT
- **SYM. F**: DRAWING VOLTAGE
- **SYM. M**: DRAWING GROUND WIRE
- **SYM. N**: DRAWING HOUR

**LIST OF DRAWINGS**

**LIST OF DRAWINGS**

- **06.1** SYMBOLS LIST AND GENERAL NOTES
- **06.1** SITE PLAN - ELECTRICAL
- **06.3** SINGLE LINE DIAGRAM - ELECTRICAL
- **07.1** CABLES
(E) EQUIPMENT TO REMAIN. PROTECT IN PLACE.

SEE E5.1 FOR (N) AUTOMATIC TRANSFER SWITCH TO BE INSTALLED IN PLACE OF (E) NEMA 3R ENCLOSURE.

WALL MOUNT BETWEEN (E) MAIN SERVICE PANEL AND AT&T CABINET WITH CONDUITS AND CONDUCTORS PER E5.1.

FIELD LOCATE AND MANDREL (E) RACEWAYS BETWEEN SERVICE LOCATION AND GENERATOR LOCATION.

UTILIZE FOR (N) GENERATOR POWER FEEDER AND GENERATOR BATTERY CHARGER / JACKET HEATER 120V CIRCUITS AS SHOWN. CONNECT ALL COMPLETE AT BOTH ENDS, INCLUDING ADDITIONAL REQUIRED CONDUIT EXTENSIONS AND COUPLINGS / CONNECTORS FOR FULL TERMINATIONS.

(E) CONDUIT STUB-UPS, ADJACENT TO (E) GENERATOR PAD. MODIFY PER NOTE 6.

BASIS OF DESIGN FOR GENERATOR IS GENERAC 30KW MODEL #RD030 (120/240V, 1PH, 3W), WITH 132 GALLON DIESEL BELLY TANK, AND NON-SERVICE RATED AUTOMATIC TRANSFER SWITCH MODEL #RXSC200A3 (200A, 120/240V, 1PH, 3W).

CAREFULLY SAW CUT AND PATCH (E) GENERATOR PAD FOR EXTENSION OF (E) RACEWAYS TO REQUIRED STUB-UP LOCATION UNDER (N) GENERATOR. DIG UP (E) RACEWAYS TO UNDERGROUND AND CUT / COUPLE TO (N) SCHEDULE 40 PVC EXTENSIONS TO REQUIRED STUB-UP LOCATION.

NOTE: ALTERNATE METHODS OF GETTING (E) CONDUITS TO GENERATOR WILL BE ALLOWED AT CONTRACTORS DISCRETION, IF SUBMITTED AND APPROVED BY THE ENGINEER IN ADVANCE. ANY ABOVE GROUND RACEWAYS SHALL BE RIGID GALVANIZED STEEL.

INSTALL GENERATOR OVER (N) RACEWAY STUB-UPS. VERIFY EXACT STUB-UP WINDOW OF SUPPLIED GENERATOR WITH ACTUAL GENERATOR TO BE INSTALLED, PRIOR TO INSTALLATION.
**GROUND ROD INSTALLATION**

- Conduit with insulated copper wire to equipment ground bus.
- Copper connector sized to accommodate ground rod & cable (or exothermic weld).
- 5/8" x 10'-0" ground rod, see spec's.

**Generator Grounding and Neutral Requirements**

- Do not bond neutral to ground rod.
- See 1/E7.1.

**Generator Mounting Detail**

- Generator grounding electrode system.
- Generator set ground to accessibility ground flat plate (size 1")
- 1/2"Ø Hilti KB TZ2 expansion anchors (ICC ESR 4266), min. 2-1/2" embed. min. (4) anchors along each long edge of generator, (8) total.

**Project Details**

- Napa County Fire Department
- Pope Valley Fire Station 220 Berryessa Estates
- Generator 2386 Stagecoach Canyon Road
- Pope Valley, CA 94587

**Other Information**

- Drawing Scale: 1/4" = 1'-0"
- Sheet Title: E7.1
- Sheet Number: 3
- Revision: 0
- Sheet Title: Details
- Sheet Set: JULY 5, 2022
- BID Set: EXP 6/23SC
- Exp. 6/23
- No. 14738

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**NAPA COUNTY FIRE DEPARTMENT**

**POPE VALLEY FIRE STATION 220**

**BERREYSSA ESTATES**

**GENERATOR**

2386 STAGECOACH CANYON ROAD

POPE VALLEY, CA 94587