Seneca Companies

The Complete Solution

FUEL DISPENSING POWER DISTRIBUTION PANELS

MEET ALL YOUR FUEL DISPENSING NEC AND NFPA CONTROL REQUIREMENTS WITH ONE SIMPLE PANEL.

EMERGENCY CIRCUIT DISCONNECT

Panels are prewired to simultaneously disconnect all circuits leading to fuel dispensers when external emergency stop switches are triggered.
(Required by NEC code 514.11.)

VOLTAGE REMOVAL

Panels are prewired and fitted with individual dispenser switches to allow means of removing all voltages (high and low) during service and maintenance.
(Required by NEC code 514.13.)

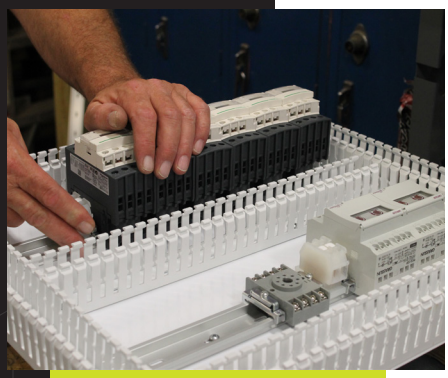
EMERGENCY POWER DISCONNECT

Panels are prewired to disconnect power to all dispensing devices, to remote pumps serving the dispensing devices and associated power, control and signal circuits when an emergency shutoff device is triggered.
(Required by NFPA code 30A, Section 6.7.)

The above listed controls are integrated into our power distribution panel which supplies overcurrent protection for the entire store. This allows for on-site electrical contractors to simply lower this unit over the store conduits and immediately begin wiring the store.

ENTIRE STORE OVERCURRENT PROTECTION

- 1/8” thick brushed aluminum NEMA 1 enclosure.
- Prewired branch circuit breakers including 225 amp (A), 400 amp (B), and 400 amp (C).
- Three 84-circuit panel boards pre-mounted.
- Optional additional 225 amp breaker with 84-circuit panel board for truck stop style stores.
- Breakers, switch neutral and GFI breakers installed per site specific panel schedules.
- Main power distribution blocks (800 amps).
- Pre-mounted grounding bars.
- Built and tested within Seneca’s UL 891 certified shop.



QUALITY

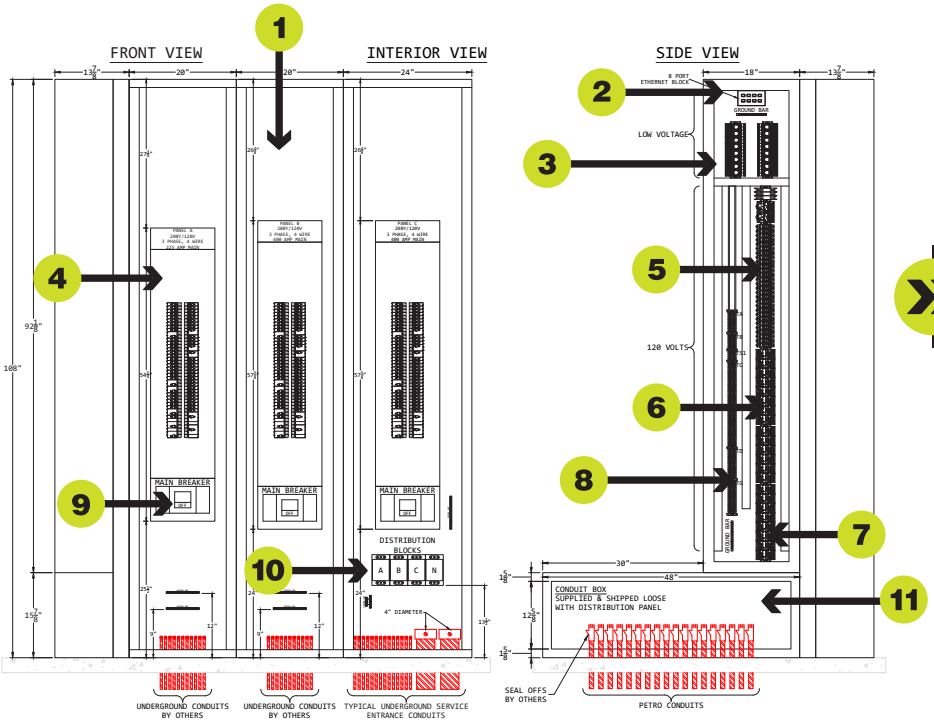
- Seneca Companies panel shop is certified for both UL 891 (panel board) and UL 508A (industrial controls).
- Panels are constructed by master and journeyman electricians.
- Each distribution panel is dielectric tested to 1200 volts.
- Individual store specific CAD drawings are referenced and included with each panel.
- Only high quality components are used, including industrial strength relays and contactors. We do not use delicate circuit boards.

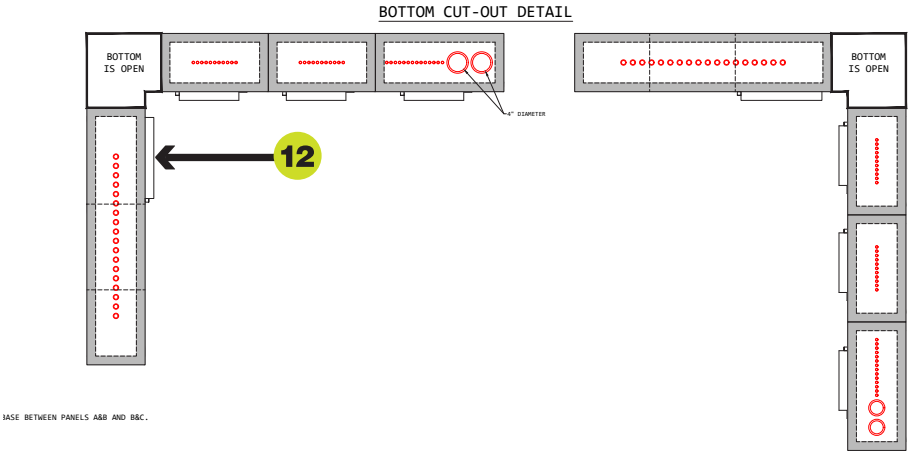
EXTERIOR LIGHTING MANAGER

- Exterior lighting circuits are routed through contactors integrated in the panel. These contactors are controlled by rooftop light intensity sensors which are shipped loose within the panel. Once mounted, the store exterior lighting system turns on/off as needed throughout the day.
- The lighting manager helps customers reduce energy consumption by ensuring exterior lighting is off during daylight hours.
- One manager override switch is mounted to the control panel door in the event that the manager would like all exterior lighting on, no matter what the natural light intensity.

OTHER BENEFITS

- Helps accelerate construction schedules.
- Provides low and stable pricing for all stores.
- Decreases on-site electrical work.
- Ensures store-to-store consistency.
- Speeds up future dispenser servicing and troubleshooting.
- Ships entire panel directly to your construction site.
- Site specific CAD drawings are provided for each panel.
- Friendly and knowledgable customer service and support.
- Facility located in the central Midwest for easy shipping anywhere in the country.





ASE BETWEEN PANELS A&B AND B&C.

L-PANEL OPTION

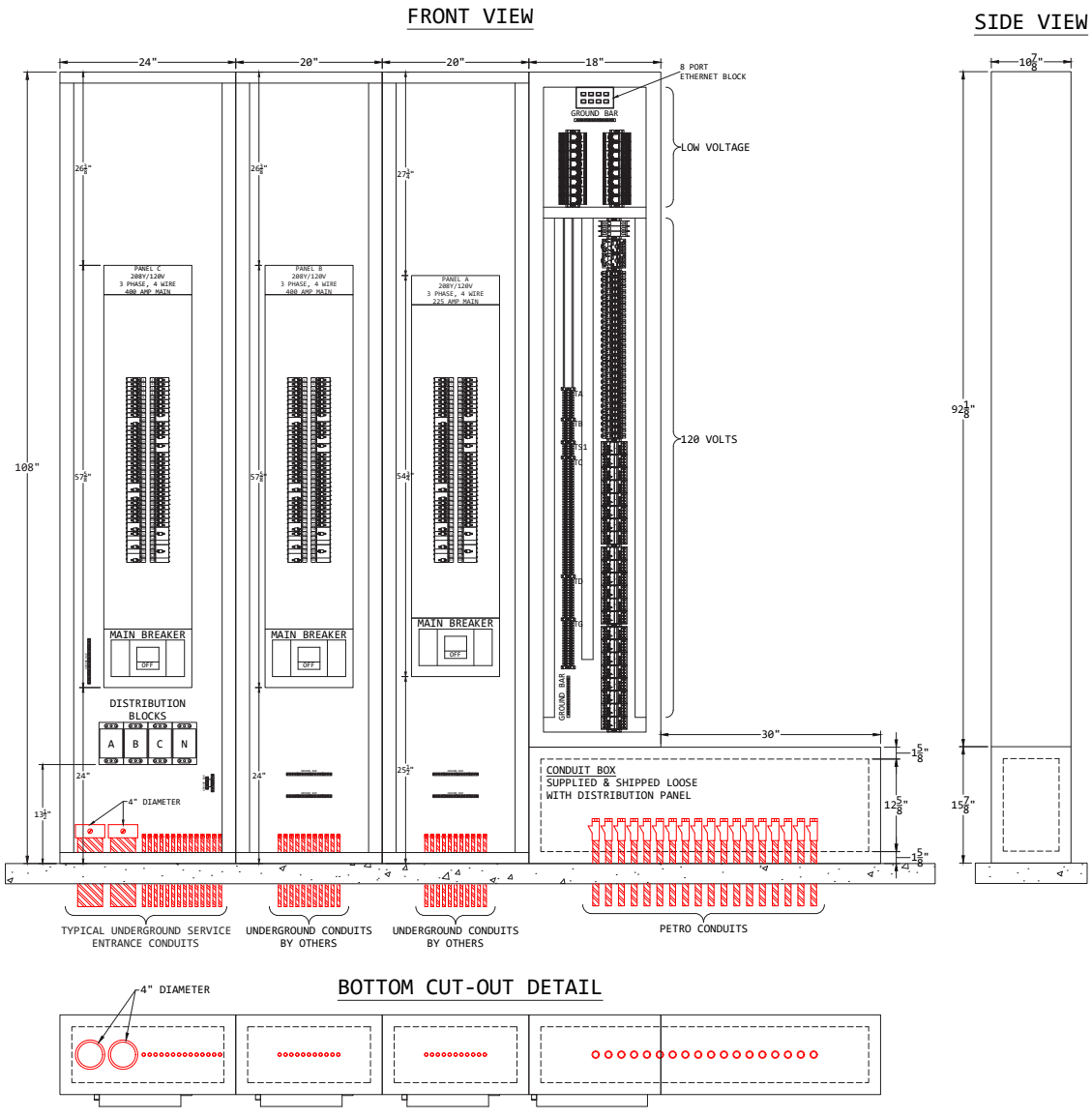
INTEGRATED FEATURES

1. NEMA 1 custom enclosure- shapes can be modified to help fit various utility room configurations (L-store, straight-store and reverse order store.)
2. Control panels are built and labelled to UL 508A standards. Industrial quality. We do not use delicate circuit boards.
3. Dispenser low voltage disconnects.
4. 84-circuit panel boards are prewired in UL 891 labelled configured distribution system.
5. Dispenser hook signal isolation relays.
6. Exterior lighting manager with two rooftop natural light sensors (shipped loose.)
7. Dispenser power/neutral relays and clearly labelled terminal strips to receive dispenser wiring.
8. Power/neutral, VFC hook signals, speakers, credit card (Crind) and control signal.
9. Branch circuit main breakers.
10. Power distribution blocks for accepting main power feed from fused disconnect.
11. 48” NEMA 1 petro conduit box.
12. Dispenser on/off switches equipped with lockout-tagout covers (OSHA 1910.147). Configurations can include six pumps with 10 dispensers. Removes all power sources (high and low) from the dispesner.

SPECIFICATIONS

- 208V 3-phase
- 65K SCCR series rated
- 800 amp total
- Subpanel breakers- A- 225amp, B- 400amp, C- 400amp
- Optional 225 amp breaker with 84-circuit panel board
- Panel board sections labelled with UL 891
- Control panel section labelled with UL 508A
- 108” tall x 10 7/8” deep enclosure
- 112” long enclosure (straight) enclosure
- 77 7/8” long x 61 7/8” long (L- panel) enclosure
- 1/8” thick brushed aluminum enclosures
- Crate size 110” x 88” approximately 1,300 lbs.

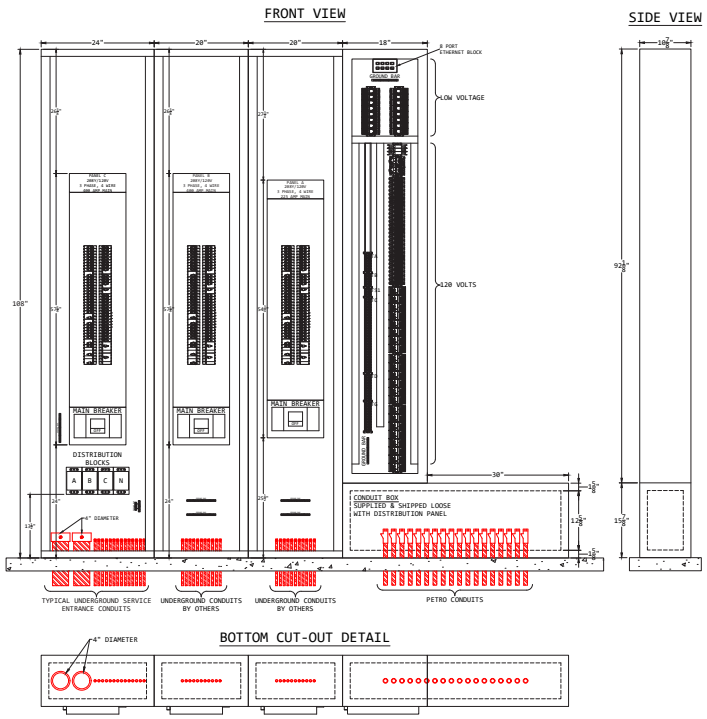
STRAIGHT PANEL OPTION



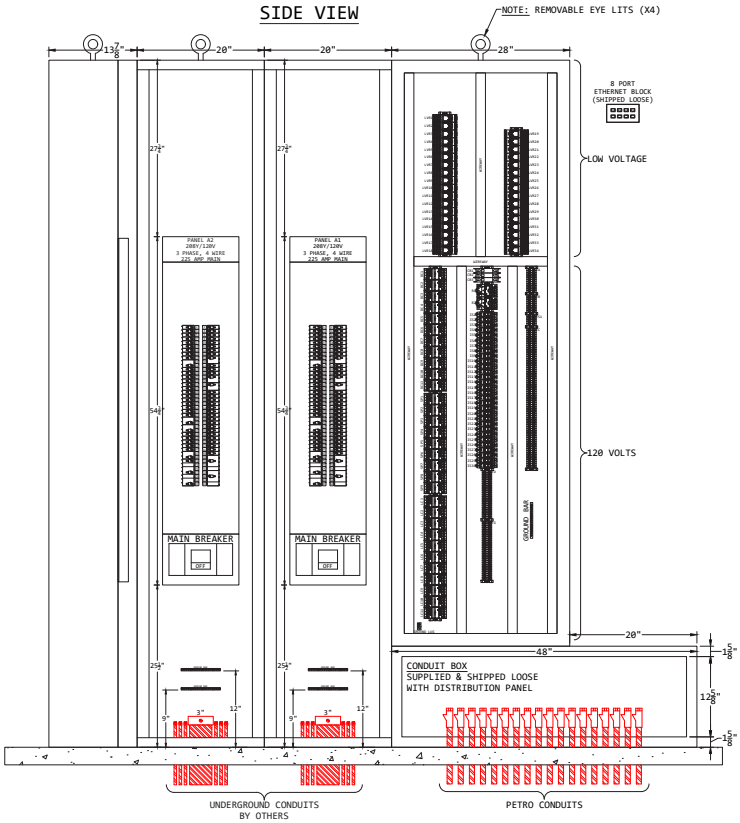
LOW AND HIGH VOLTAGE DISCONNECTS

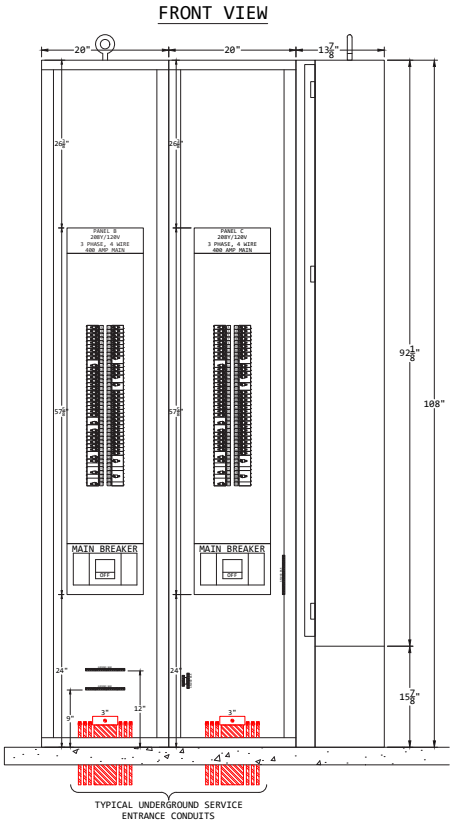
- NEC 514.11- Simultaneously disconnects all circuits leading to dispensers when E-stop switches are triggered.
- NEC 514.13 - Individual dispenser switches allows means of removing all voltages (high and low) during service and maintenance.
- NFPA 30A, Section 6.7- Disconnects power to all dispensing devices, remote pumps serving the dispensing devices and all associated power, control and signal circuits when E-stop switches are triggered.

STRAIGHT PANEL OPTION



1200 AMP PANEL OPTION





ADDITIONAL OPTIONS

POWER MONITORING

Monitor individual circuits (refrigeration, HVAC, lighting.)

- Identify faulty equipment.
- Identify unusual energy usage.

Monitor indvidual panels.

- Quantify energy consumption for individual panels (lighting, refrigeration.)

Monitor entire store power.

- Identify peak usage time periods.
- Compare monitored usage to utility billing.
- Identify load imbalances.

I-LINE POWER DISTRIBUTION

- Easy to scale up for future equipment. (car wash, etc.)

SURGE SUPPRESSION

- Protect valuable equipment and circuit boards.

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Seneca Companies™

The Complete Solution

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