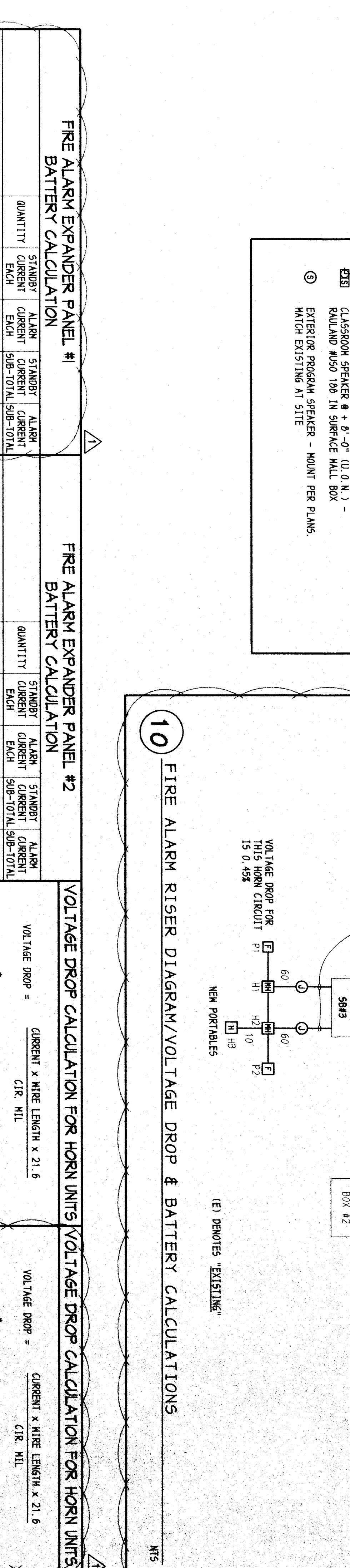
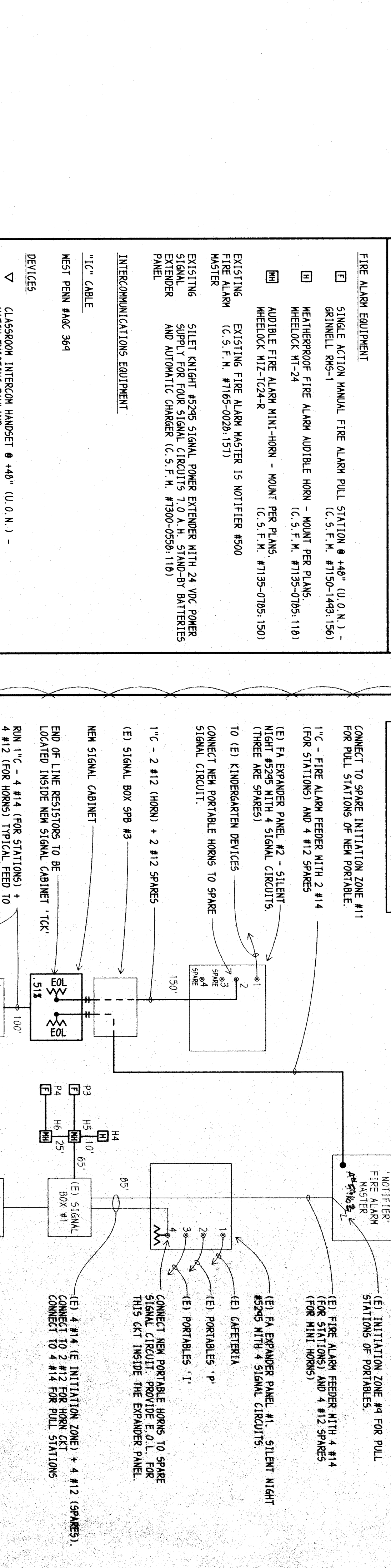
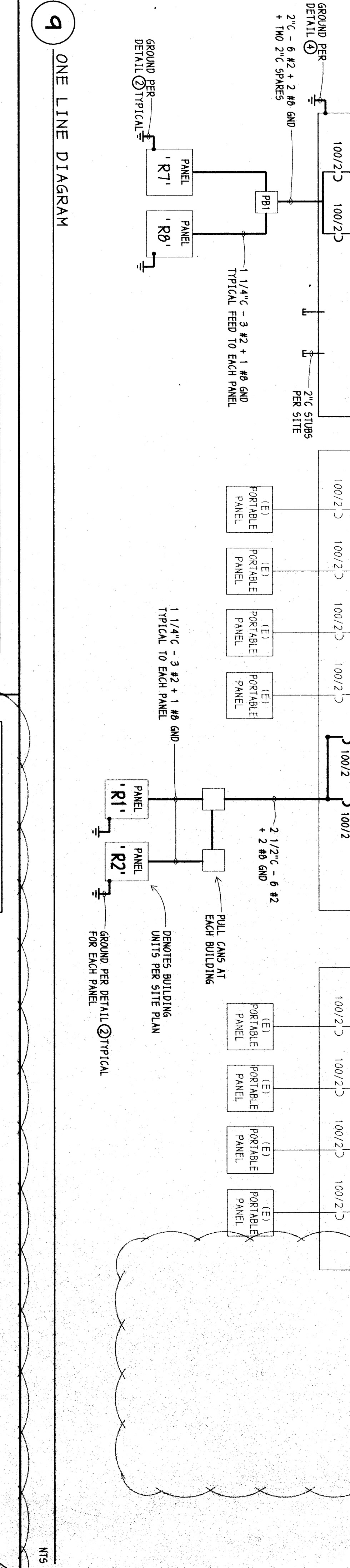
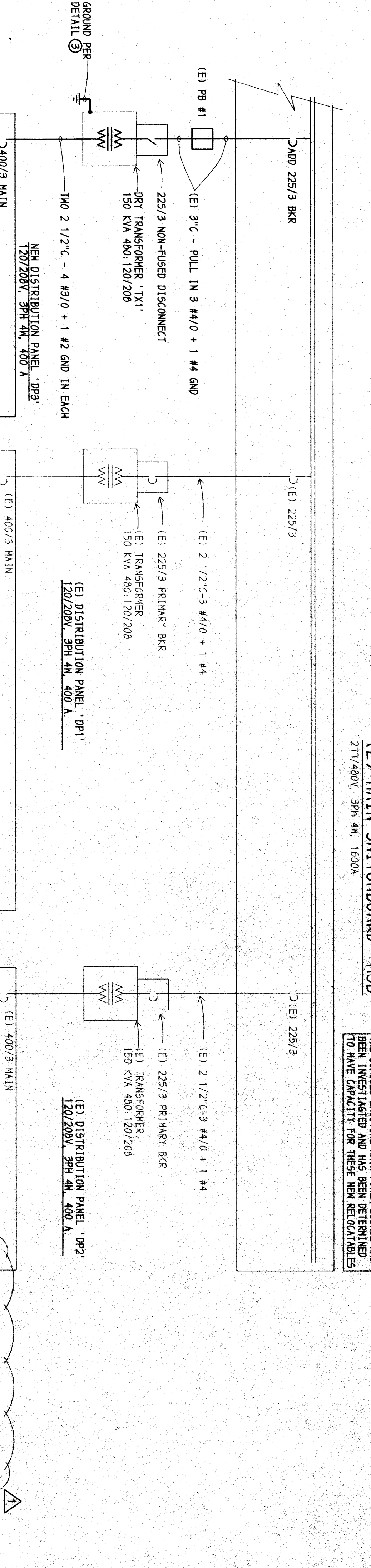


DUAL TAP DROP CALCULATION FOR HORN UNITS	VOLTAGE DROP CALCULATION FOR HORN UNITS
VOLTAGE DROP = CURRENT x WIRE LENGTH x 21.6 CIR. MIL V.D. = $\frac{* .002 \times 460' \times 21.6}{6530} = 0.124 \text{ VOLTS}$ HORN # 017 HORN # .048 VOLTAGE DROP = APPLIED VOLTAGE x 100 $\frac{0.124}{24} \times 100 = 0.51\% \text{ VS HORN SIGNAL, CKT \#4}$ VOLTAGE DROP IS MEASURED FROM THE EXISTING EXPANDER PANEL, #2 TO THE HORN AT THE TERMINALS	VOLTAGE DROP = CURRENT x WIRE LENGTH x 21.6 CIR. MIL V.D. = $\frac{* .002 \times 370' \times 21.6}{6530} = 0.10 \text{ VOLTS}$ * 2 HORNS # 017 1 HORN # .048 VOLTAGE DROP = APPLIED VOLTAGE x 100 $\frac{0.10}{24} \times 100 = 0.42\% \text{ VS HORN SIGNAL, CKT \#4}$ VOLTAGE DROP IS MEASURED FROM THE EXISTING EXPANDER PANEL, #2 TO THE HORN AT THE TERMINALS

[illegible][illegible]

100/2' 100/2' 100/2' 100/2'

(E) PORTABLE PANEL (E) PORTABLE PANEL (E) PORTABLE PANEL (E) PORTABLE PANEL

PULL CANS AT EACH BUILDING

DEPOTES, BUILDING UNITS PER SITE PLAN

GROUND PER DETAIL 20 TYPICAL FOR EACH PANEL

EXISTING

NTS

BEEN INVESTIGATED AND HAS BEEN DETERMINED
TO HAVE CAPACITY FOR THESE NEW RELUCTANCES

(E) 225/3

(E) 2 1/2" C-9 #4/0 + 1 #4

(E) TRANSFORMER
150 KVA 480V 1Ø/2Ø

(E) DISTRIBUTION PANEL, 1P2
150/200V, 4P, 4M, 400 A

(E) 400/3 MAIN

VOLTAGE DROP IS MEASURED FROM THE EXISTING EXPANDER PANEL #1 TO THE HORNS AT THE PORTABLES FOR A TOTAL DISTANCE OF 475 FT. WITH E.O.L. AT LAST DEVICE.

$$\text{VOLTAGE DROP \%} = \frac{\text{VOLTAGE DROP}}{\text{TOTAL VOLTAGE}} \times 100$$
$$\text{VOLTAGE DROP} = \frac{\text{CURRENT} \times \text{WIRE LENGTH} \times 21.6}{\text{CIR. MIL}}$$


BATTERY CALCULATIONS

) SIGNAL
BOX #2

(E) 4 #14 (E INITIATION ZONE) + 4 #12 (SPARES).
CONNECT TO 2 #12 FOR HORN CRT
CONNECT TO 4 #14 FOR PULL STATIONS

CONNECT NEW PORTABLE HORNS TO SPARE SIGNAL CIRCUIT. PROVIDE E.O.L. FOR THIS CXT INSIDE THE EXPANDER PANEL.

(E) CAFETERIA
(E) PORTABLES 'P'

(FOR STATIONS) AND 4 #12 SPARES
(FOR MINI HORNS)

(E) INITIATION ZONE #4 FOR PULL

NTS

10



PANEL

ON DETERMINED
RELOCATABLES