APPENDIX 2B

ATTACHMENT K - ELECTRICAL LABELLING SCHEMA

Please see attached.

FHA ELECTRICAL LABELLING SCHEMA

Description	Code	Example Value
Power Type	AAAA	e.g. 0833, 1061, etc.
Floor Code	BB	e.g. 01 or 05ML, etc. (refer to Floor Codes)
Power Type	C	e.g. V=Vital , C=Conditional,d=Delayed Vital, etc. (refer to Table 1)
Voltage	D	e.g. 2=120/208 Volts, 6= 600V, etc. (refer to Table 2)
Equipment Type	EE	e.g. DP=Distriubtion Panel (refer to Table 3)
Equip Type Consecutive Number	FF	e.g. 01=Distribution Panel #01 , 02=Transformer #2
Receptacle #	GG	e.g. 24=Receptacle #24

PANELBOARDS (120/208V) and MEDIUM CIRCUIT BREAKERS (600V)

Example #1 - Panelboard (P)

Definition: A "Panelboard" is defined as less than or equal to 600 Amps with small or medium circuit breakers typically feeding lights and receptacles.

Equipment: 120/208V Vital Panelboard #1 in bldg "0834", 3rd floor, feeding 3rd floor lights/recept., fed from 120/208V Distribution Panel #1 1st flr, bldg "0833"

Long form: AAAA-BB-CEFF → **0834-03-VP01**

Short Form: C-EFF → **V-P01**

Panelboard Label:
0834-03
V-P01
FF: 0833-01-V-2DP01
FT: LTS/RCPTS

Note: *For panelboards, drop Voltage code , bldg/floor codes and shorten the label name. (e.g. VPO1). All panelboards are assumed to be 120/208V unless otherwise labelled. The first line refers to the location of the asset being labelled. Subsequent lines are in reference to this location. If a Feed From (FF)/Feed To (FT) asset is located in a different location, use the long format in the label (e.g.0833-01-V-2DP01)*

Example #2 - Receptacle (#24)

Equipment: Receptacle fed from CIRCUIT 24 of the above Panelboard #1

Short Form: CEFF-GG → **VP01-24**

Receptacle Label:
V-P01-24

Notes: *For receptacles, use the panelboard name and add the receptacles # on the end with a dash (e.g.-01,-02, etc.) Drop the building/floor codes in receptacle label as this is already referenced in the Panelboard's label.*

MAIN SWITCHBOARDS, MCC's, DISTRIBUTION PANELS and SPLITTERS

Example #1 - Vital Distribution Panel (DP)

Definition: A "Distribution Panel" is typically greater than 600 Amps with large circuit breakers or fuses. This panel feeds to other panelboards, transformers, or equipment (i.e. x-ray).

Equipment: 600V Vital Distribution Panel #4 in bldg "0833", 1st floor, fed from ("FF") Vital Distribution Panel #1 circuit breaker #02 basement, same bldg.

Long form: AAAA-BB-C-DEEFF → **0833-01-V-6DP04**

Short Form: C-DEEFF → **V-6DP04**

Distribution Panel Label:
0833-01
V-6DP04
FF: BT-V-6DP01-02

Example #2 - Delayed Vital Splitter (SP)

Definition: A "splitter" is an electrical component that splits current to two or more circuits.

Equipment: 480V Delayed Vital Splitter feeding equipment on 1st floor, bldg "1234" fed from ("FF") 600V Delayed Vital Panel #2 on same flr, same bldg (D-6DP02).

Long form: AAAA-BB-C-DEEFF → **1234-01-D-4SP01**

Short Form: C-DEEFF → **D-4SP01**

Splitter Label:
1234-01
D-4SP01
FF: D-6DP02

Example #3 - Vital Drawout Switchboard (SWB)

Definition: A "Switchboard" is a panel containing switches or other electrical means of completing a cirucuit or exchange of circuits. Primarily used for telephone exchange.

Equipment: 600V Vital Drawout Switchboard #1 on 1st floor, bldg "1234" fed from (FF) 600V Vital Panel #1 on 1st flr of bldg "0834".

Long form: AAAA-BB-C-DEEEFF → **1234-01-V-6SWB01**

Short Form: BB-C-DEEEFF → **V-6SWB01**

Switchboard Label:
1234-01
V-6SWB01
FF: 0834-01-V-6DP01

FHA ELECTRICAL LABELLING SCHEMA

MAIN SWITCHBOARDS, MCC's, DISTRIBUTION PANELS and SPLITTERS CONT'D

Example #4 - Delayed Vital Motor Control Centre (MCC)

Definition: A "Motor Control Centre" is group of combination starters in one unit. Combination starters are defined as single enclosures containing the motor starter, fuses or circuit breaker, and a device for disconnecting power.

Equipment: 600V Delayed Vital MCC #1 on 5th floor, bldg "1234" fed from (FF) 600V Delayed Vital Distribution Panel #2 located on 1st flr of bldg "0834", and feeding to (FT) Delayed Vital Panelboard #2 on 6th floor of bldg "1234".

Long form: AAAA-BB-C-DEEEFF → **1234-05-D-6MCC01**

Short Form: C-DEEEFF → **D-6MCC01**

Motor Control Ctr. Label:
1234-05
D-6MCC01
FF: 0834-01-D-6DP02
FT: 06-D-6P02

TRANSFORMERS AND TRANSFER SWITCHES

Example #1 - Vital Transformer (T)

Definition: A "Transformer" is an electrical device that transforms energy from one circuit to another, without changing frequency. Transformers can increase or decrease voltage.

Equipment: 600V Vital Transformer #4 in building "1234", 1st floor, fed from (FF) Distribution Panel #1 Drawout Breaker Switch #2, basement, same bldg, feeding to (FT) 120/208V Vital Panelboard #4, in bldg "0833", 5th floor.

Long form: AAAA-BB-C-DEEFF → **1234-01-V-6T04**

Short Form: C-DEFF → **V-6T01**

Transformer Label:
1234-01
V-6T04
FF: BT-V-6DP01-02
FT: 0833-05-V-P04

Example #2 - Vital Automatic Transfer Switch (ATS)

Definition: A "transfer switch" is an electrical device that switches load between two sources. The transfer switch cen be either automatic transfer switch cen be either automatic (ATS) or manual (MTS).

Equipment: 600V Vital Automatic Transfer Switch #1 fed from 600V Distribution Panel #1 feeding 600V Vital Switchboard #1 located in the same building & floor.

Long form: AAAA-BB-C-DEEFF → **1234-01-V-6ATS01**

Short Form: BB-C-DEEEFF → **V-6ATS01**

Automatic Transfer SW:
1234-01
V-6ATS01-CB03
FF: V-6DP01-03
FT: V-6SWB01

LABEL FORMATS

Use FHA approved materials and follow the FHA colour/size codes for labelling electrical assets.

1st line:	Building-floor code denotes location of equipment being labelled (7 mm)	0833-01
2nd line:	Electrical ID of the equipment being labelled e.g. /v-6T04 (11 mm high)	V-6T04
3rd line:	Electrical ID of "FEED FROM" (FF) equipment, e.g. BT-V-6DP01 (7 mm)	FF: BT-V-6DP01-01
4th line:	Electrical ID of "FEED TO" (FT) equipment, i.e. 01-V-6PDC01 (7 mm)	FT: 0834-01-V-2DP04

F. FHA ELECTRICAL LABEL CODE TABLES

Refer to the following tables when labelling Fraser Health Electrical Assets and their components.

TABLE 1 - Power Type Codes & Label Colours

Code	Power Source
G	Generator
V	Vital
D	Delayed Vital
C	Conditional (or Standby)
N	Normal
X	Discretional (Non-essential)
U	Uninterruptible Power

Label Colour	Label Text Colour
RED	White
RED	White
BLUE	White
YELLOW	Black
BLACK	White
ORANGE	Black
GREY	Black

TABLE 3 - Equipment Type Codes

Code	Equipment Type
ATS	Automatic Transfer Switch
CB	Circuit Breaker
CAP	Capacitor
DS	Disconnect Switch
DP	Distribution Panel
GFI	Ground Fault Circuit Interrupter
MCC	Motor Control Centre

TABLE 2 - Voltage Codes

Code	Voltage
2	120/208 Volts
4	4=480/277 Volts
6	600 Volts
4.1	4.1 KV
12	12 KV
25	25 KV
75	75 KV

FHA ELECTRICAL LABELLING SCHEMA

MSW	Motor Starter Switch
MTS	Manual Transfer Switch
P	Panelboard
PDC	Power Distribution Center
SSW	Safety Switch
SP	Splitter
SPB	Splitter Box
STR	Starter
S	Switch
SWG	Switchgear
TSW	Transfer Switch
T	Transformer
UPS	Uninterruptible Power Supply