

DIVISION 26 – ELECTRICAL

26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - PRODUCTS

1.01 BRANCH CIRCUIT PANEL BOARD DIRECTORIES:

- A. Panel Schedule shall be formatted in the latest version of Microsoft Excel, an electronic copy shall be incorporated in the O&M and format shall be approved by Washington State University (WSU) Construction Manager.
- B. Number each single pole space: odd numbered circuits on left side, even on right side (i.e., 1,3,5,7,9, etc., on the left side, 2,4,6,8,10, etc. on the right). For panels with a single column of breakers, number each single pole space sequentially. Securely mount on inside face of panelboard door. Typewritten panel schedules only; handwritten schedules will not be accepted.
- C. Confirm room numbers with WSU Construction Manager prior to noting on schedules.
- D. Indicate the name of the source for the panel on either the panel schedule or the panelboard.
- E. Spare circuit breakers and space positions shall be noted with their own separate space.
- F. Panel schedules and circuit numbers on Project Record drawings shall agree.

1.02 NAMEPLATES

A. Materials

- 1. Provide nameplates constructed of 1/16" thick plastic laminated material. Engrave through colored surface material to contrasting colored sub-layer
- 2. Stainless steel wall plates are preferred on the WSU campus. Stainless steel plates shall be engraved with epoxy filled paint and all emergency circuits shall have "EMERGENCY POWER" engraved on the plate above the voltage, circuit# and panel ID. Use red for emergency circuits and black for normal circuits. All labeling shall have Voltage, Circuit#, Panel ID. Minimum lettering size shall be 3/16".
- 3. When approved by the WSU Project Manager, nylon wall plates may be substituted for stainless steel. Nylon wall plates shall be labeled with Dymo-Tape or equal. All labeling shall have Voltage, Circuit#, Panel ID. Minimum lettering size shall be 3/16".

B. Provide nameplates for the following:

DIVISION 26 – ELECTRICAL

26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS

1. Equipment identification labels for all electrical equipment including, but not limited to, switchgear, switchboards, panels, disconnect switches, motors, transformers, capacitors, fixed equipment, lighting control panels, motor starters, MCC's, VFD's, etc.

C. Feeder and Branch Circuit Junction and Pull Boxes:

1. At all junction and pull box locations indicate the panel ID, circuit(s), voltage and system in black permanent marker, the marking shall be legible and located on the inside of each pull box cover.
2. Fire alarm junction and pull boxes and associated covers to be red.

D. Color Coding System for Junction Boxes and Covers:

1. 120/208V Power (normal): Unpainted
2. 277/480V Power (normal): Yellow
3. 120/208V Power (NEC 701/702): 1/2 Black
4. 277/480V Power (NEC 701/702): 1/2 Yellow
5. 120/208V Power (NEC 700): Dark Blue
6. 277/480V Power (NEC 700): Orange
7. Fire Alarm: Red
8. Security: Light Blue
9. Telephone/Data: Black
10. A/V: Gold
11. HVAC/BAS Systems: Green

E. Color Coding System for Electrical Power Cables:

1. Buses, feeders, branch circuit conductors and medium voltage cables shall be properly phased and identified throughout. Individual conductors shall be color coded as noted below:

DIVISION 26 – ELECTRICAL
26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS

120/208V and Medium Voltage	Conductor	277/480V
Black	Phase A	Brown
Red	Phase B	Orange
Blue	Phase C	Yellow
White	Neutral	Gray
Green	Ground	Green
Green/Yellow	Isolated Ground	Green/Yellow

F. Color Scheme for Plastic Labels:

1. 480/277V – Red background with white letters.
2. 208/120V – Black background with white letters.
3. Emergency System: Shall have “EMERGENCY SYSTEM” written above the voltage and panel identification with appropriate color.

G. Switchgear and Switchboard disconnects shall have a large font of 1/2" and be legible from a distance of 15'. All Main Service Disconnects shall have “MAIN SERVICE DISCONNECT” written above associated Switchgear description on same label, label shall be located by the main service disconnect switch. Lettering of MAIN SERVICE DISCONNECT shall be no smaller than 1" tall, coordinate size of label accordingly. Labels shall be permanently fastened.

1.03 MAIN ELECTRICAL ROOM

A. Provide a placard of the as-built one line diagram permanently secured to a wall in the main electrical room, minimum size of 24" x 36". Also provide a complete set of as-built electrical drawings in a sealable container in the main electrical room.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION