## PANEL MDP RENOVATION SCHEDULE

5 / E601

SCALE NOT TO SCALE

PANELBOARD NO.: MDP — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V
BUS: 1200A
MTG: FLOOR
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM):

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 65,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| PANEL 2L1 | 3 | 125 | 1 | 2 | 100 | 3 | PANEL 3L3 |
| PANEL 1L2 | 3 | 100 | 3 | 4 | 100 | 3 | PANEL EX1 |
| PANEL GL4 | 3 | 400 | 5 | 6 | 200 | 3 | PANEL GL2 |
| PANEL 3L2 SECTION 2 | 3 | 200 | 7 | 8 | 200 | 3 | PANEL GL1 SECTION 2 |
| PANEL 3L2 SECTION 1 | 3 | 200 | 9 | 10 | 200 | 3 | PANEL GL1 SECTION 1 |
| PANEL 2L2 | 3 | 200 | 11 | 12 | 175 | 3 | PANEL AL |
| SPARE | 3 | 200 | 13 | 14 | 100 | 3 | SPARE |
| UNUSABLE SPACE | | | 15 | 16 | | | UNUSABLE SPACE |

## PANELBOARD SCHEDULE

PANELBOARD NO.: MDP — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V
BUS: 1200A
MTG: FLOOR
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM):

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 65,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| AHU–1 | 3 | 125 | 1 | 2 | 125 | 3 | AHU–2 |
| PANEL ROOM 2 | 3 | 200 | 3 | 4 | 200 | 3 | ROOM 13 PANEL GL3 |
| AHU–4 | 3 | 150 | 5 | 6 | 125 | 3 | AHU–3 |
| SCWP–1 | 3 | 90 | 7 | 8 | 200 | 3 | PANEL 3L1 SECTIONS 1 & 2 |
| PANEL 1L1 | 3 | 200 | 9 | 10 | 200 | 3 | PANEL 3L1 SECTION 3 |
| EXISTING LOAD W/O LABEL<br>UNUSABLE SPACE | 2 | 100 | 11 | 12 | 100 | 3 | CHILL WATER PUMP CWP–2 |
| SPARE | 3 | 200 | 13 | 14 | 100 | 3 | SPACE |
| UNUSABLE SPACE | | | 15 | 16 | | | UNUSABLE SPACE |

## PANELS GP1 & MP EXISTING LAYOUT

2 / E601

SCALE NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| GP–1 | | | MP | | |
| 1200A MAIN SWITCH | | 200A AHU–1 (125A FUSE) | 200A AHU–2 (125A FUSE) | | 125A PANEL 2L1 / SPACE — SPACE / SPACE |
| | | 200A NO NAMEPLATE PANEL ROOM 2 | 200A ROOM 13 PANEL GL3 | | 100A PANEL 1L2 / 100A? COOLING TOWER FAN — 100A PANEL 3L3 / 100A? COND WATER PUMP |
| | | | | | 100A HOUSE COMPRESSOR LAR–1 / 70A PANEL GL3 — 100A? CHILL WATER PUMP / 50A HW PUMP HCP–2 |
| 200A AHU–4 (150A FUSE) | 200A AHU–3 (125A FUSE) | 100A SCWP–1 (90A FUSE) / 70A CHILLED WATER FILTER PUMP | 100A AHU–5 (70A FUSE) / SPARE | | 100A? CHILL CONTROL PNL / 50A ELEVATOR — 50A PANEL EX–1 / 100A/40A ANTI–FREEZE PUMP |
| | | | | 200A PANEL 3L2 SECTION 2 / 200A PANEL 3L2 SECTION 1 | 200A PANEL GL2 / 200A PANEL GL1 SECTION 2 — 100A/40A UNIT SUPPLY FAN 5 / 70A/15A EXHAUST FAN 13 (EF1) — 50A/15A HW PUMP (RAD) / 100A/15A CONDENSATE PUMP |
| SPACE | | SPACE | | 200A PANEL 2L2 / 200A PANEL 1L1 | 200A PANEL 3L1 SECTIONS 1 & 2 / 200A PANEL GL1 SECTION 1 — 15A? TEMP CNTRL COMPRESSOR (EF4) / SPACE — SPACE / SPACE |
| | | | | 100A NO LABEL / 70A | 200A PANEL 3L1 SECTION 3 / 175A PANEL AL |

## PANELBOARD SCHEDULE

PANELBOARD NO.: EX–1 — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V/50A
BUS: 100A
MTG: SURFACE
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM): SQUARE–D/NQOD/22KAIC

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 22,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| UNKNOWN EXISTING LOAD | 1 | 20 | 1 | 2 | 20 | 1 | UNKNOWN EXISTING LOAD |
| EXITS EAST | 1 | 20 | 3 | 4 | 20 | 1 | UNKNOWN EXISTING LOAD |
| EXITS WEST | 1 | 20 | 5 | 6 | 20 | 1 | SPARE |
| SPARE | 1 | 20 | 7 | 8 | 20 | 1 | SPARE |
| SPACE | | | 9 | 10 | 20 | 1 | SPARE |
| SPACE | | | 11 | 12 | | | SPACE |
| SPACE | | | 13 | 14 | | | SPACE |
| SPACE | | | 15 | 16 | | | SPACE |
| SPACE | | | 17 | 18 | | | SPACE |
| SPACE | | | 19 | 20 | | | SPACE |
| SPACE | | | 21 | 22 | | | SPACE |
| SPACE | | | 23 | 24 | | | SPACE |

## PANEL EX1 EXISTING SCHEDULE

4 / E601

SCALE NOT TO SCALE

## PANELBOARD SCHEDULE

PANELBOARD NO.: GL4 — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V
BUS: 400 AMP
MTG: SURFACE
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM): 22,000

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 22,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| TEMP CONTROL CLOCKS | 1 | 20 | 1 | 2 | 20 | 1 | TEMP CONTROL DEHYDRATOR |
| SPARE | 1 | 20 | 3 | 4 | 20 | 1 | SPARE |
| TUNNEL LIGHTS | 1 | 20 | 5 | 6 | 20 | 1 | RCPT SOUTH (EXIT MECHANICAL) |
| LIGHTS EAST | 1 | 20 | 7 | 8 | 20 | 1 | LIGHTS WEST |
| LIGHTS CENTER | 1 | 20 | 9 | 10 | 20 | 1 | RCPT NORTH |
| RCPT EAST AND WEST | 1 | 20 | 11 | 12 | 20 | 1 | TIME CLOCKS |
| PC SOUTH | 1 | 20 | 13 | 14 | 60 | 3 | SPARE |
| OUTSIDE LIGHTS | 1 | 20 | 15 | 16 | | | |
| UNKNOWN EXISTING LOAD | 1 | 20 | 17 | 18 | | | |
| PREHEAT PUMP AHU–5 | 1 | 20 | 19 | 20 | 15 | 3 | SPARE |
| SPARE | 1 | 20 | 21 | 22 | | | |
| SPARE | 1 | 20 | 23 | 24 | | | |
| SPACE | | | 25 | 26 | | | SPACE |
| SPACE | | | 27 | 28 | | | SPACE |
| SPACE | | | 29 | 30 | | | SPACE |
| SPACE | | | 31 | 32 | | | SPACE |
| SPACE | | | 33 | 34 | | | SPACE |
| SPACE | | | 35 | 36 | | | SPACE |
| SPACE | | | 37 | 38 | | | SPACE |
| SPACE | | | 39 | 40 | | | SPACE |
| SPACE | | | 41 | 42 | | | SPACE |

## PANEL GL4 RENOVATION SCHEDULE

3 / E601

SCALE NOT TO SCALE

## PANELBOARD SCHEDULE

PANELBOARD NO.: GL4 — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V
BUS: 400 AMP
MTG: SURFACE
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM): 22,000

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 22,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| UNIT SUPPLY FAN 5 | 3 | 40 | 1 | 2 | 40 | 3 | SPARE |
| | | | 3 | 4 | | | |
| | | | 5 | 6 | | | |
| EXHAUST FAN 13 (EF1) | 3 | 15 | 7 | 8 | 15 | 3 | HW PUMP (RAD) |
| | | | 9 | 10 | | | |
| | | | 11 | 12 | | | |
| HOUSE COMPRESSOR LAR–1 | 3 | 70 | 13 | 14 | 15 | 3 | SPARE |
| | | | 15 | 16 | | | |
| | | | 17 | 18 | | | |
| SPARE | 3 | 40 | 19 | 20 | 50 | 3 | HW PUMP HCP–2 |
| | | | 21 | 22 | | | |
| | | | 23 | 24 | | | |
| AHU–5 | 3 | 70 | 25 | 26 | 50 | 3 | ELEVATOR |
| | | | 27 | 28 | | | |
| | | | 29 | 30 | | | |
| SPACE | | | 31 | 32 | | | SPACE |
| SPACE | | | 33 | 34 | | | SPACE |
| SPACE | | | 35 | 36 | | | SPACE |
| SPACE | | | 37 | 38 | | | SPACE |
| SPACE | | | 39 | 40 | | | SPACE |
| SPACE | | | 41 | 42 | | | SPACE |

## PANELBOARD SCHEDULE

PANELBOARD NO.: GL–3 — LOCATION: MECHANICAL ROOM 24

VOLTAGE: 208Y/120V/70A
BUS: 100A
MTG: SURFACE
TYPE: [X] X – LUG ONLY [ ] MAIN BKR. ( AMPS)
AIC (SYM): SQUARE–D/NQOD/10KAIC

NAME PLATE: CAUTION: THIS EQUIPMENT HAS A MINIMUM SHORT CIRCUIT REQUIREMENT OF 22,000 AIC. ALL DEVICES INSTALLED MUST HAVE A RATING EQUAL TO OR HIGHER THAN THE DESIGN REQUIREMENT.

| SERVICE | BREAKER POLE | BREAKER AMP | | | BREAKER AMP | BREAKER POLE | SERVICE |
|---|---|---|---|---|---|---|---|
| TEMP CONTROL CLOCKS | 1 | 20 | 1 | 2 | 20 | 1 | TEMP CONTROL DEHYDRATOR |
| SPARE | 1 | 20 | 3 | 4 | 20 | 1 | SPARE |
| TUNNEL LIGHTS | 1 | 20 | 5 | 6 | 20 | 1 | RCPT SOUTH (EXIT MECHANICAL) |
| LIGHTS EAST | 1 | 20 | 7 | 8 | 20 | 1 | LIGHTS WEST |
| LIGHTS CENTER | 1 | 20 | 9 | 10 | 20 | 1 | RCPT NORTH |
| RCPT EAST AND WEST | 1 | 20 | 11 | 12 | 20 | 1 | TIME CLOCKS |
| PC SOUTH | 1 | 20 | 13 | 14 | 60 | 3 | SPARE |
| OUTSIDE LIGHTS | 1 | 20 | 15 | 16 | | | |
| UNKNOWN EXISTING LOAD | 1 | 20 | 17 | 18 | | | |
| PREHEAT PUMP AHU–5 | 1 | 20 | 19 | 20 | | | SPACE |
| SPACE | | | 21 | 22 | | | SPACE |
| SPACE | | | 23 | 24 | | | SPACE |

## PANEL GL3 DEMOLITION SCHEDULE

1 / E601

SCALE NOT TO SCALE

STATE OF MISSOURI — RILEY D. JOHNSON — NUMBER PE–2023002646 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER - RILEY D. JOHNSON
MO# PE-2023002646

Riley D. Johnson — Digitally signed by Riley D. Johnson, Date: 2024.03.08 14:43:49 -06'00'

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| 03/12/24 | ISSUED FOR CONSTRUCTION | |
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| DRAWN BY: JDR | | CHECKED BY: JLD |

CAMPUS FACILITIES
Planning, Design, & Construction
Design Services
UNIVERSITY OF MISSOURI

GEOLOGICAL SCIENCES
COLUMBIA, BOONE COUNTY, MISSOURI 65211
ELECTRICAL SERVICE PANEL REPLACEMENT
ELECTRICAL PANEL SCHEDULES

PROJECT NUMBER
CP241351

SHEET
E601