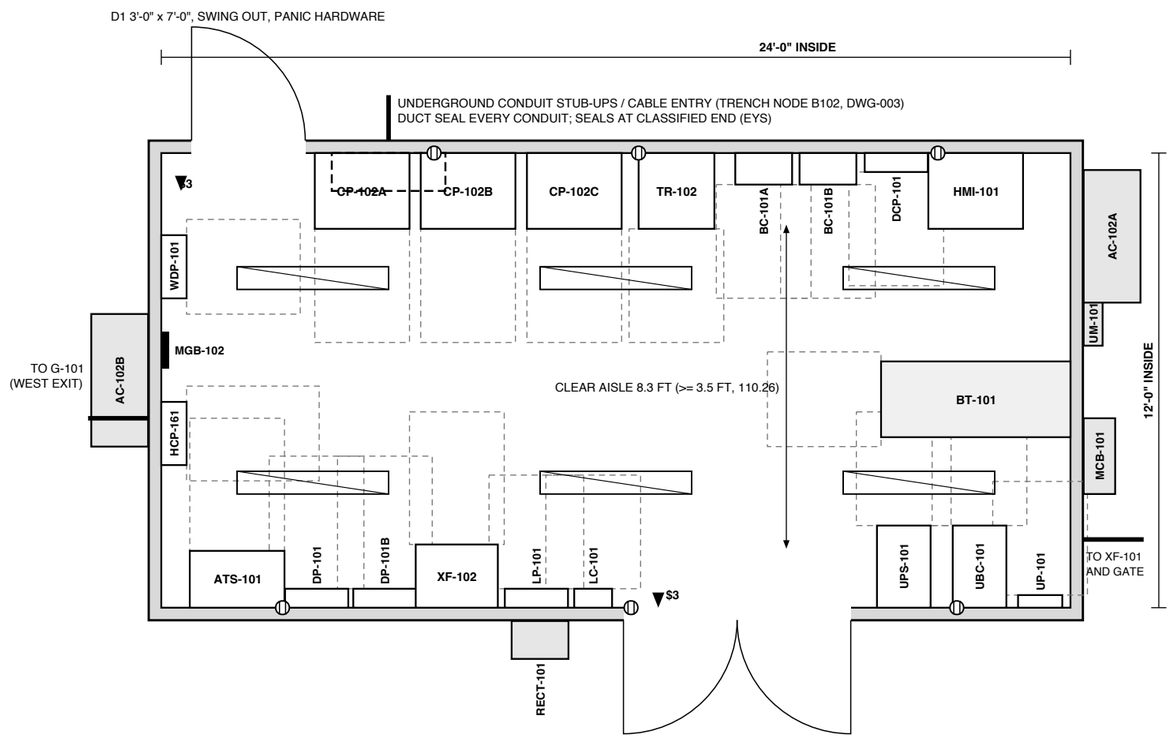



**PLAN - B-102 CONTROL AND ELECTRICAL BUILDING, 1/4" = 1'-0"**

**SCALE 1" = 4'-0" (1:48) AT ANSI B**

0 3 6 9 12 FT

N

PLANT NORTH = TRUE NORTH (H-02)

**EQUIPMENT SCHEDULE (ele_data.B102_EQ)**

| TAG | DESCRIPTION | W x D x H IN |
|---|---|---|
| MCB-101 | Service entrance main circuit breaker 125 A, NEMA 3R, SUSE | 24 x 10 x 36 |
| UM-101 | Utility meter base (utility furnished, HOLD H-10) | 14 x 6 x 20 |
| ATS-101 | Automatic transfer switch 150 A 3P 480 V | 30 x 18 x 72 |
| DP-101 | Distribution panelboard section A 480Y/277 V, 225 A bus, 42 ckt | 20 x 6 x 72 |
| DP-101B | Distribution panelboard section B (through-feed from A), 42 ckt | 20 x 6 x 72 |
| XF-102 | Dry-type transformer 15 kVA 480 - 208Y/120 V | 26 x 20 x 40 |
| LP-101 | Lighting and power panelboard 208Y/120 V, 125 A bus | 20 x 6 x 50 |
| LC-101 | Lighting contactor, 4-pole 30 A, photocell + HOA | 12 x 6 x 16 |
| UPS-101 | UPS 1.5 kVA 120 VAC on-line double conversion | 17 x 26 x 34 |
| UBC-101 | UPS external battery cabinet, 48 VDC VRLA | 17 x 26 x 34 |
| UP-101 | UPS distribution panel 120 V 1-phase, 12 circuit | 14 x 4 x 24 |
| CP-102A | RTU cabinet (instrumentation scope) | 30 x 24 x 84 |
| CP-102B | Safety PLC cabinet (instrumentation scope) | 30 x 24 x 84 |
| CP-102C | Flow computer / measurement cabinet (measurement scope) | 30 x 24 x 84 |
| TR-102 | Telecommunications rack TR-102 (router, radio, firewall, switch, NVR) | 24 x 24 x 84 |
| BC-101A | Battery charger 24 VDC 50 A (A) | 18 x 10 x 30 |
| BC-101B | Battery charger 24 VDC 50 A (B) | 18 x 10 x 30 |
| DCP-101 | 24 VDC distribution panel, 125 A main | 20 x 6 x 36 |
| BT-101 | 24 VDC VRLA battery 400 Ah, 12 cells on 2-tier rack | 24 x 60 x 40 |
| HMI-101 | Operator workstation desk | 30 x 24 x 30 |
| AC-102A | Wall-mount AC with electric heat (lead) | 42 x 18 x 75 |
| AC-102B | Wall-mount AC with electric heat (lag) | 42 x 18 x 75 |
| HCP-161 | E-161 heater contactor and temperature control panel TIC-161A (vendor) | 20 x 8 x 30 |
| RECT-101 | CP rectifier 24 V / 8 A, air-cooled, NEMA 3R ( CP-CAL-001) | 18 x 12 x 30 |
| WDP-101 | demarcation interface panel, B-102 side (HOLD H-14) | 20 x 8 x 30 |

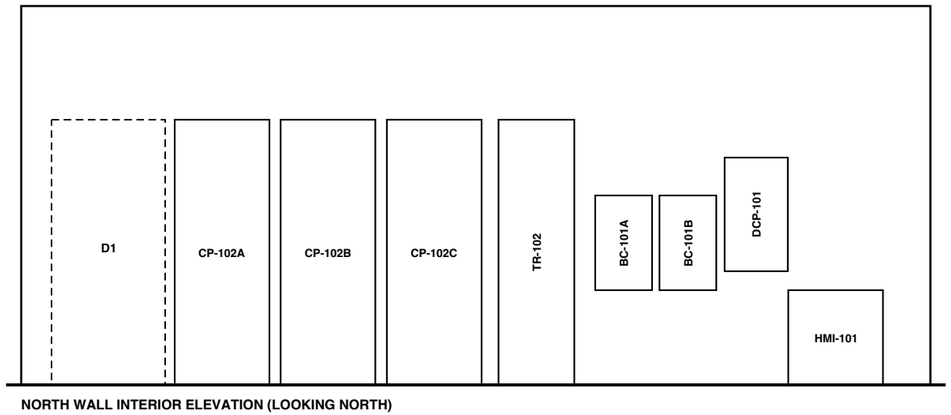
**NOTES**

1. WORKING SPACE (NEC 110.26(A)): 3'-6" IN FRONT OF 480 V EQUIPMENT (CONDITION 2), 3'-0" FOR 208/120 V AND 24 VDC; WIDTH 30 IN MIN; HEADROOM 6'-6". SHOWN DASHED.
2. B-102 IS UNCLASSIFIED ( ELE-RPT-001), 59 FT FROM THE NEAREST SOURCE.
3. BATTERIES ARE VRLA: NO EYEWASH REQUIRED BY NEC 480; PROVIDE PORTABLE EYEWASH PER OSHA 1910.151(c) IF ELECTROLYTE EXPOSURE IS POSSIBLE (OWNER EHS).
4. HVAC OUTSIDE AIR 100 CFM (CAL-001), DAMPER CLOSES ON GD-207 (XY-214C).
5. LIGHTING: 6 x 40 W LED (50 FC, CAL-007) + EMERGENCY UNIT AND EXIT SIGN AT EACH DOOR.
6. FIRE EXTINGUISHER: 10 LB CO2 / ABC AT EACH DOOR. SMOKE DETECTOR XS-212 (VOLUME 7).
7. EQUIPMENT GROUNDING TO MGB-102; MGB-102 TO GRID WITH 2 x 2/0 (DWG-004).
8. BUILDING ANCHORAGE AND SLAB BY STR; FLOOR CONDUIT STUB-UPS PER DWG-003.

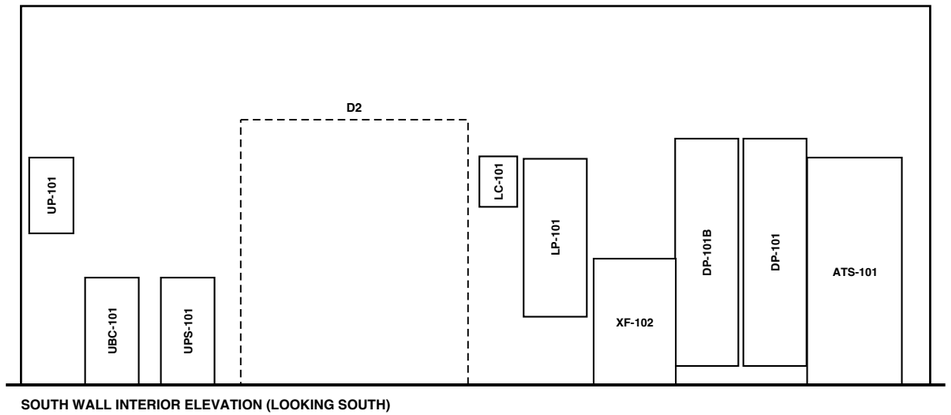
**SYMBOLS**

| | |
|---|---|
| $3 | 3-WAY SWITCH |
| REC | DUPLEX RECEPTACLE 20 A GFCI (6) |
| EXT | FIRE EXTINGUISHER |
| LTG | 4 FT LED LUMINAIRE (6) |
| WS | WORKING SPACE (DASHED) |

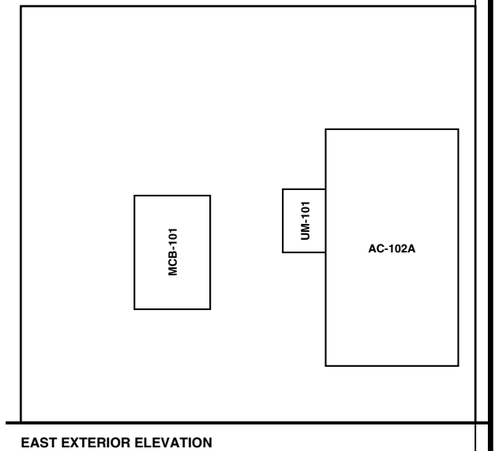
ELEVATIONS 1/4" = 1'-0"; PANEL HANDLES MAX 6'-7" (240.24(A)); MOUNTING HEIGHTS TO BOTTOM OF ENCLOSURE




**NORTH WALL INTERIOR ELEVATION (LOCKING NORTH)**




**SOUTH WALL INTERIOR ELEVATION (LOOKING SOUTH)**




**EAST EXTERIOR ELEVATION (LOOKING WEST)**

**NOTES / REFERENCES**

1. EQUIPMENT SIZES TYPICAL, CONFIRM WITH VENDOR DATA (HOLD H-15).
2. PREFABRICATED STEEL BUILDING, 10 FT CLEAR, INSULATED (CAL-001 SEC. 11).
3. I&C CABINETS CP-102A/B/C BY VOLUME 7.

REF: ELE-DWG-001
REF: ELE-DWG-003
REF: ELE-LST-003

**REVISIONS**

| REV | DATE | DESCRIPTION | BY | CHK | APP |
|---|---|---|---|---|---|
| A | 2026-09-29 | ISSUED FOR REVIEW (IFR) | | | |

**PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION**

**ENGINEER OF RECORD SEAL**

NOT SEALED
PRELIMINARY

PE NO. _____

**PROJECT**

120 MMSCFD RECEIPT INTO
COUNTY,

DISCIPLINE: ELECTRICAL
SCALE: 1/4" = 1'-0" (PLAN AND ELEVATIONS)

**B-102 EQUIPMENT LAYOUT AND ELEVATIONS**

CONTROL AND ELECTRICAL BUILDING 24 FT x 12 FT

DRAWN: ____ CHECKED: ____ APPROVED: ____

DWG NO.

**ELE-DWG-006**

SHEET 1 OF 1 REV A