

DRAWING INDEX

SOMA Controls - controls drawing set

| SHEET | DRAWING TITLE                        | REV |
|-------|--------------------------------------|-----|
| 00    | Drawing Index / Cover Sheet          | —   |
| 01    | Legend, Symbols & Abbreviations      | —   |
| 02    | Blank Drawing Sheet (reusable frame) | —   |
| 03    | Points List / I-O Schedule           | —   |
| 04    | Sequence of Operations (SOO)         | —   |
| 05    | BAS Network / Riser Architecture     | —   |
| 06    | Typical Control Schematics           | —   |
| 07    | Panel Layout / Enclosure             | —   |
| GN    | General Notes                        | —   |

Sheet size D (34×22), ANSI zone grid. Set sheet number + rev in the title block per job.

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DRAWING INDEX

| REV                                                                                                                                                                                                                             | ZONE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                               | DATE | BY | SEAL - RETAINED PE OF RECORD |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------------------------|--|--|--|
| —                                                                                                                                                                                                                               |      | INITIAL ISSUE                                                                                                                                                                                                                                                                                                                                             |      |    | <div></div>                  |  |  |  |
|                                                                                                                                                                                                                                 |      |                                                                                                                                                                                                                                                                                                                                                           |      |    |                              |  |  |  |
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| <div><div>S</div><div>SOMA CONTROLS</div><div>BUILDING AUTOMATION ENGINEERING<br/>INDIANAPOLIS, IN - CLARKANDSOMA.COM<br/>TEL: _____<br/>EMAIL: _____<br/>TEMP. CONTROL CONTRACTOR<br/>CONTROL ENGR.<br/>APPL ENGR.</div></div> |      | <div>DWG TITLE</div> <div>PROJECT</div> <div><div>DRAWN BY</div><div>CHECKED BY</div><div>APPROVED</div></div> <div><div>DATE</div><div>DATE</div><div>DATE</div></div> <div><div>SIZE</div><div>DWG NO</div><div>REV</div><div>SCALE</div><div>SHEET</div></div> <div><div>D</div><div></div><div>—</div><div>NTS</div><div>SHEET ___ OF ___</div></div> |      |    |                              |  |  |  |

|                                                                                   |                                  |
|-----------------------------------------------------------------------------------|----------------------------------|
| 8                                                                                 | 7                                |
| <b>BODY STYLE LEGEND (ISA-5.1)</b>                                                |                                  |
|  | DISCRETE FIELD INSTRUMENT        |
|  | SHARED DISPLAY / BAS FUNCTION    |
|  | DDC / PLC FUNCTION               |
|  | COMPUTER / CALCULATED FUNCTION   |
|  | FIELD MOUNTED                    |
|  | PANEL / FRONT MOUNTED            |
| <b>WIRING / SIGNAL LEGEND (ISA-5.1)</b>                                           |                                  |
|  | ELECTRIC / ELECTRONIC SIGNAL     |
|  | PNEUMATIC SIGNAL                 |
|  | DATA / COMMUNICATION LINK        |
|  | CAPILLARY TUBE                   |
|  | INSTRUMENT / AIR SUPPLY          |
| <b>CONNECTION / POINT LEGEND</b>                                                  |                                  |
|  | DIGITAL INPUT POINT (BI)         |
|  | DIGITAL OUTPUT POINT (BO)        |
|  | ANALOG INPUT POINT (AI)          |
|  | ANALOG OUTPUT POINT (AO)         |
|  | TOTALIZER / PULSE INPUT          |
| <b>CONTROLLER &amp; NETWORK LEGEND</b>                                            |                                  |
|  | DDC CONTROLLER / JACE SUPERVISOR |
|  | NETWORK SWITCH / ROUTER          |
|  | BAS FIELD BUS — BACnet MS/TP     |
|  | BAS NETWORK — BACnet/IP          |
|  | ZONE SENSOR / WALL MODULE        |

| 6                                                                                 | 5                     |
|-----------------------------------------------------------------------------------|-----------------------|
| <p align="center"><b>MECHANICAL LEGEND</b></p>                                    |                       |
|  | CENTRIFUGAL FAN       |
|  | PROPELLER / AXIAL FAN |
|  | VANE AXIAL FAN        |
|  | DAMPER - OPPOSED      |
|  | DAMPER - PARALLEL     |
|  | AIR FILTER            |
|  | AIR FLOW STATION      |
|  | HUMIDIFIER            |
|  | WATER HTG/CLG COIL    |
|  | HEATING COIL          |
|  | COOLING COIL          |
|  | ELEC HEATING COIL     |
|  | 2-WAY CONTROL VALVE   |
|  | 3-WAY CONTROL VALVE   |
|  | WATER FLOW METER      |
|  | WATER PUMP            |
|  | MAGNETIC STARTER      |
|  | VARIABLE SPEED DRIVE  |

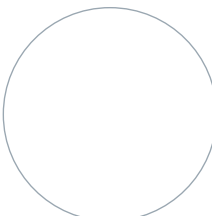
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|--|---|--|---|
|  | 4 |  | 3 |
|--|---|--|---|

| SENSOR LEGEND (ISA TAG)                                                             |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | TEMPERATURE          |
|  | HUMIDITY             |
|  | ENTHALPY             |
|  | DIFF. PRESSURE       |
|  | ABSOLUTE PRESSURE    |
|  | FLOW                 |
|  | VELOCITY             |
|  | VOLTAGE              |
|  | CURRENT              |
|  | ELEC. POWER          |
|  | LEVEL                |
|  | LIGHT                |
|  | ROTATION / SPEED     |
|  | SMOKE                |
|  | TIMER / SCHEDULE     |
|  | VIBRATION            |
|  | CARBON MONOXIDE      |
|  | CARBON DIOXIDE       |
|  | REFRIGERANT GAS      |
|  | STATUS / DRY CONTACT |

|                                                     |                           |   |
|-----------------------------------------------------|---------------------------|---|
|                                                     | 2                         | 1 |
|                                                     |                           |   |
| ABBREVIATIONS                                       |                           |   |
| AHU                                                 | AIR HANDLING UNIT         |   |
| RTU                                                 | ROOFTOP UNIT              |   |
| VAV                                                 | VARIABLE AIR VOLUME       |   |
| VVT                                                 | VARIABLE VOLUME & TEMP    |   |
| FCU                                                 | FAN COIL UNIT             |   |
| DDC                                                 | DIRECT DIGITAL CONTROL    |   |
| BAS/BMS                                             | BLDG AUTOMATION/MGMT SYS  |   |
| TCC                                                 | TEMP CONTROL CONTRACTOR   |   |
| OA/RA/SA                                            | OUTSIDE/RETURN/SUPPLY AIR |   |
| EA/MA                                               | EXHAUST/MIXED AIR         |   |
| SP                                                  | SETPOINT                  |   |
| DP                                                  | DIFFERENTIAL PRESSURE     |   |
| SAT/RAT                                             | SUPPLY/RETURN AIR TEMP    |   |
| NO/NC                                               | NORMALLY OPEN/CLOSED      |   |
| AI/AO                                               | ANALOG INPUT/OUTPUT       |   |
| BI/BO                                               | BINARY INPUT/OUTPUT       |   |
| VFD                                                 | VARIABLE FREQUENCY DRIVE  |   |
| EOL                                                 | END OF LINE               |   |
| CWS/CWR                                             | CHILLED WATER SUP/RET     |   |
| HWS/HWR                                             | HOT WATER SUP/RET         |   |
| RH                                                  | RELATIVE HUMIDITY         |   |
| NTS                                                 | NOT TO SCALE              |   |
| GENERAL NOTES                                       |                           |   |
| SEE SHEET GN — GENERAL NOTES (CANONICAL, 16 NOTES). |                           |   |

**NOTE:**  
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| LEGEND, SYMBOLS & ABBREVIATIONS |      |               |      |    |                                                                                       |  |
|---------------------------------|------|---------------|------|----|---------------------------------------------------------------------------------------|--|
| REV                             | ZONE | DESCRIPTION   | DATE | BY | SEAL - RETAINED PE OF RECORD                                                          |  |
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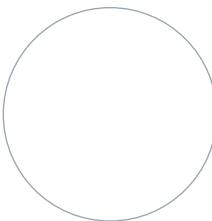
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|                                                                                                                                                                                                                                                                                                |        | PROJECT   |     |            |                  |          |
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[illegible]

| CONTROLLER POINT TALLY |      |       |       |
|------------------------|------|-------|-------|
| TYPE                   | USED | SPARE | TOTAL |
| AI                     |      |       |       |
| AO                     |      |       |       |
| BI                     |      |       |       |
| BO                     |      |       |       |

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| POINTS LIST / I-O SCHEDULE |      |               |      |    |                                                                                       |  |
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| REV                        | ZONE | DESCRIPTION   | DATE | BY | SEAL - RETAINED PE OF RECORD                                                          |  |
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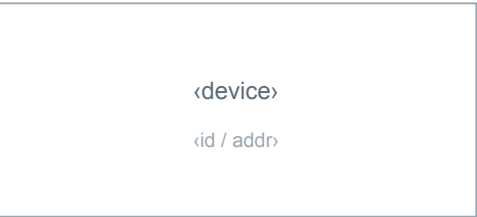
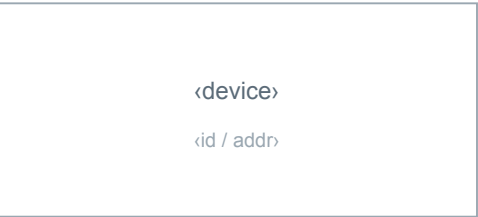
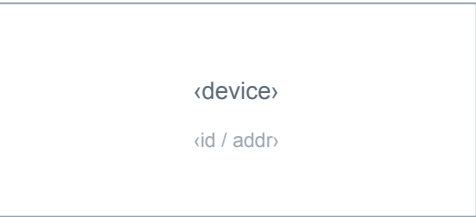


BAS NETWORK / RISER ARCHITECTURE

Tag every device per network\_integration\_schedule.xlsx — do not bury IPs/instances only in this drawing.

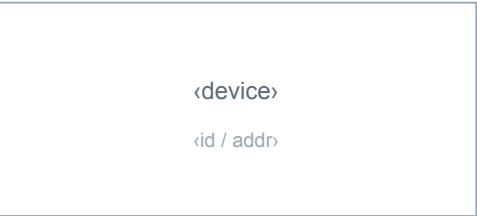
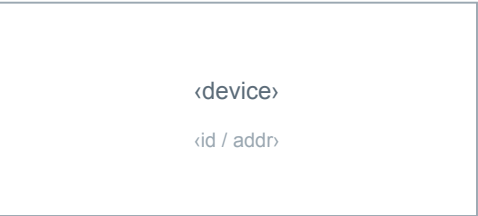
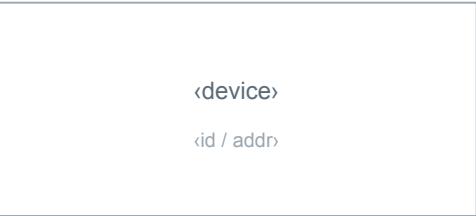
MANAGEMENT / FRONT END

BAS server · workstation · IP router  
BACnet/IP : Ethernet



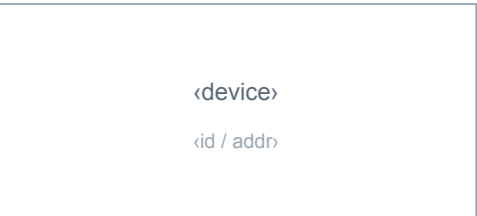
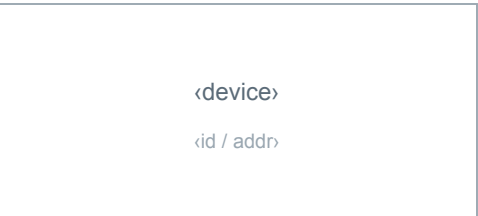
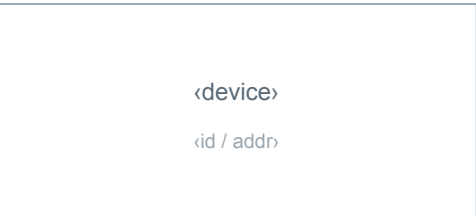
AUTOMATION / SUPERVISORY

Supervisory controllers · gateways  
BACnet/IP ↔ MS/TP, Modbus



FIELD / MS-TP TRUNK

DDC field controllers (AHU/VAV/plant)  
MS/TP · device instances



Riser line = trunk backbone. Symbols per sheet\_01 legend (ISA-5.1).

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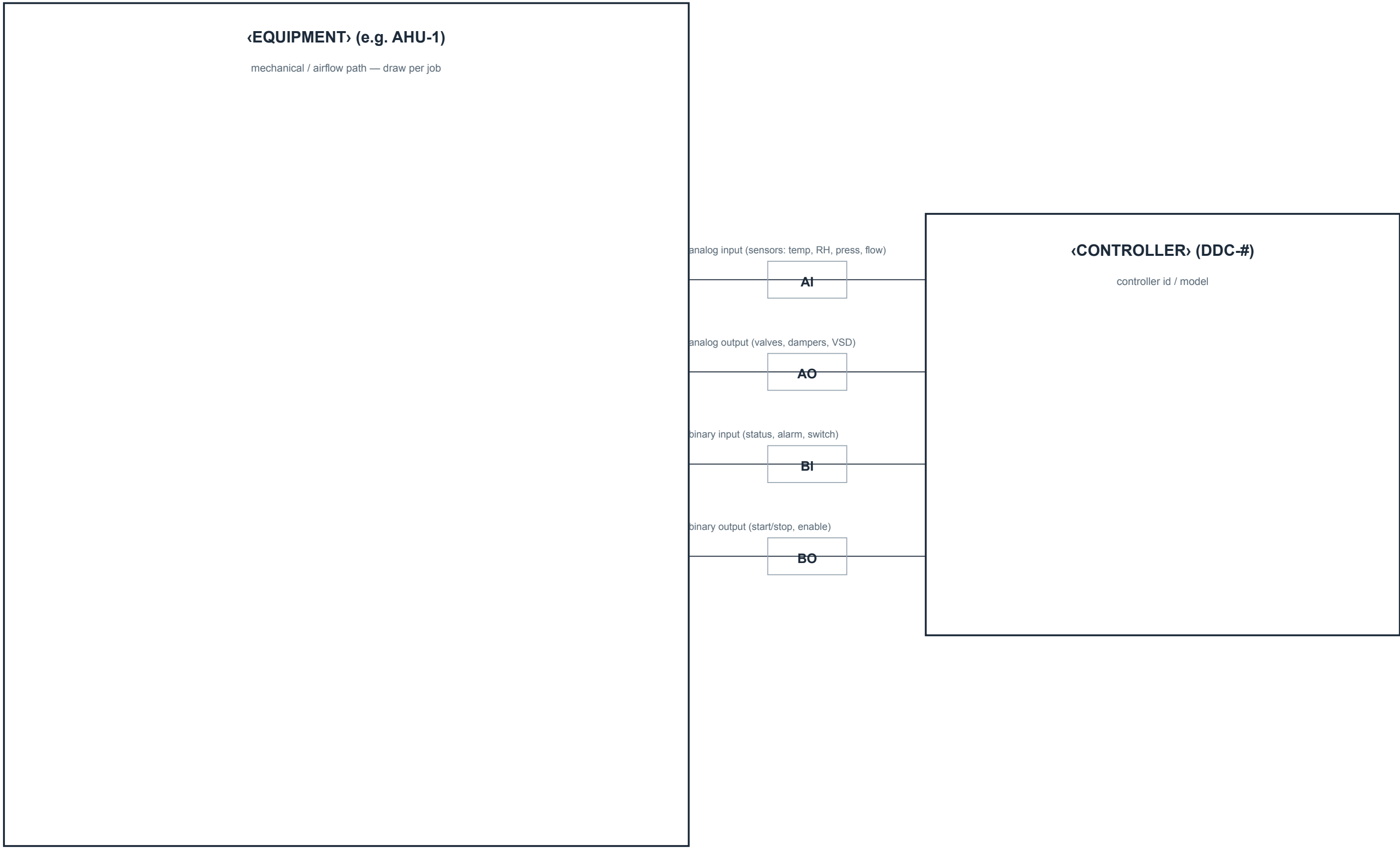
BAS NETWORK / RISER ARCHITECTURE

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| REV | ZONE | DESCRIPTION   | DATE | BY | SEAL - RETAINED PE OF RECORD<br><div></div> |
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| D                                                                                                                                                                                                                                                                                                   |           |        | —          | NTS | SHEET __ OF __ |

TYPICAL CONTROL SCHEMATIC

One equipment shown — repeat per equipment. Symbols per sheet\_01 legend; points per master\_points\_database.xlsx.



Each stub = a row in the points list / I-O schedule. Controller point tally per sheet\_03.

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TYPICAL CONTROL SCHEMATIC

| REV                                                                                                                                                                                                                                                                                                                                                      | ZONE   | DESCRIPTION   | DATE | BY    | SEAL - RETAINED PE OF RECORD<br><div></div> |  |  |  |
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| <div><div><div><div>S</div></div><div>SOMA CONTROLS</div><div>BUILDING AUTOMATION ENGINEERING<br/>INDIANAPOLIS, IN - CLARKANDSOMA.COM<br/>TEL: _____<br/>EMAIL: _____<br/>TEMP CONTROL CONTRACTOR<br/>CONTROL ENGR.<br/>APPL ENGR.</div></div><div>DWG TITLE<br/>PROJECT<br/>DRAWN BY<br/>CHECKED BY<br/>APPROVED<br/>DATE<br/>DATE<br/>DATE</div></div> |        |               |      |       |                                             |  |  |  |
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| D                                                                                                                                                                                                                                                                                                                                                        |        |               | —    | NTS   | SHEET ___ OF ___                            |  |  |  |

PANEL LAYOUT / ENCLOSURE

Lay out per panel\_enclosure\_package; terminals per terminal\_schedule.xlsx; labels per sheet\_01 legend.

«ENCLOSURE» (NEMA type / size)

POWER SUPPLY / XFMR

120VAC in → 24VAC/VDC

CONTROLLER / I-O MODULES

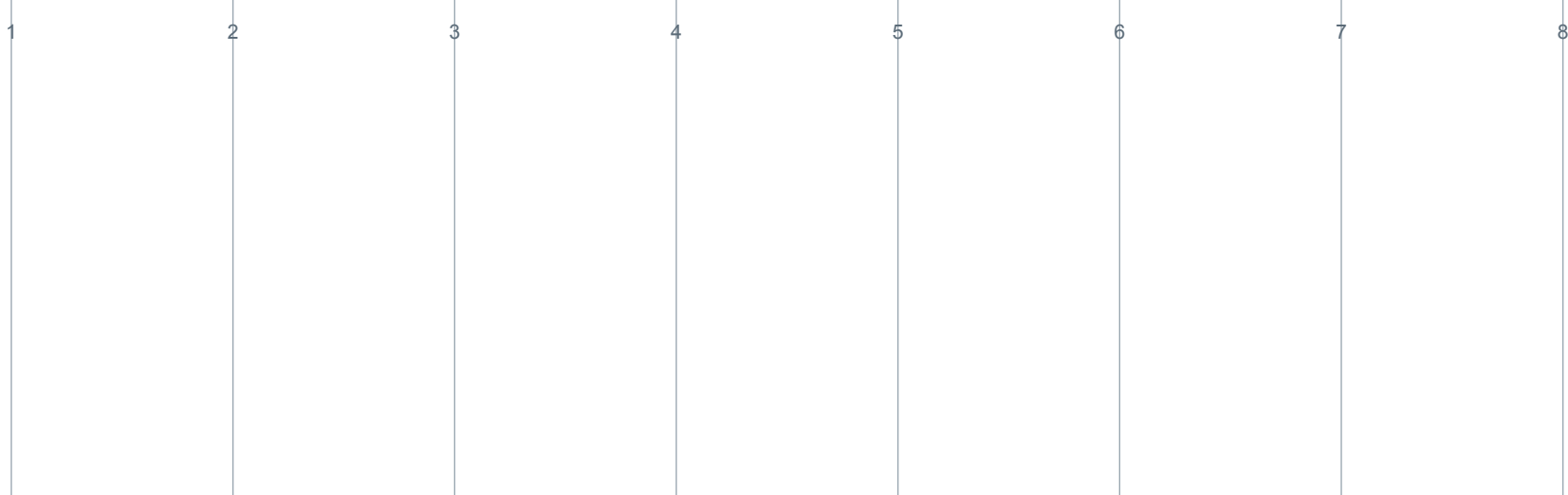
DDC-# : expansion modules

DIN rail 1 — «relays / devices»

DIN rail 2 — «relays / devices»

DIN rail 3 — «relays / devices»

TERMINAL STRIP (TB1)



One terminal column = one row in terminal\_schedule.csv (wire label ↔ point\_id).

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PANEL LAYOUT / ENCLOSURE

| REV                                                                                                                                                                                                                                                                                                                                                                                                                            | ZONE   | DESCRIPTION   | DATE | BY    | <div>SEAL - RETAINED PE OF RECORD</div> <div></div> |
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| D | <div>GENERAL NOTES</div> <div>Standard SOMA Controls notes - reused verbatim; strike any that do not apply per job.</div> <div><div><div>1.</div><div>All work shall comply with the contract documents, the approved sequence of operations, and applicable code.</div></div><div><div>2.</div><div>Controls work is vendor-neutral / open-protocol (BACnet preferred). Owner receives all passwords and programming on closeout.</div></div><div><div>3.</div><div>Verify existing field conditions before fabrication. Report discrepancies via the project RFI before proceeding.</div></div><div><div>4.</div><div>Wire and label all points per the points list / I-O schedule (sheet 03). Do not invent point names in the field.</div></div><div><div>5.</div><div>Use symbols and abbreviations per the legend (sheet 01; ISA-5.1). Do not redefine a competing legend.</div></div><div><div>6.</div><div>Provide 24VAC/VDC control power from a dedicated transformer sized with 25% spare capacity.</div></div><div><div>7.</div><div>Mount controllers and devices in accessible locations; maintain manufacturer clearances and service access.</div></div><div><div>8.</div><div>Provide surge / transient protection on network trunks and at panel power entry.</div></div><div><div>9.</div><div>Point-to-point check every physical I/O before functional testing; log results in the checkout/commissioning log.</div></div><div><div>10.</div><div>Calibrate sensors against a traceable reference; record calibration in the checkout log.</div></div><div><div>11.</div><div>Configure alarms, trends, and schedules only for points flagged in the points list.</div></div><div><div>12.</div><div>Back up all controller programs, BAS database, and graphics on completion; deliver backups + as-builts in the closeout package.</div></div><div><div>13.</div><div>Control wiring is Division 25/23; line-voltage power is Division 26. Wiring in plenums shall be plenum-rated.</div></div><div><div>14.</div><div>Devices shall fail to their scheduled safe positions on loss of power or signal (valves fail ____, dampers fail ____ per schedule).</div></div><div><div>15.</div><div>BACnet MS/TP trunks: 18 AWG shielded twisted pair, daisy-chained, end-of-line terminated.</div></div><div><div>16.</div><div>Coordinate network addressing (MAC / device instance) with the owner's existing BAS.</div></div></div> |   |   |   |   |   |   |   | D |
| C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   | C |
| B |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   | B |
| A | <div>NOTE:<br/>THE INFORMATION CONTAINED HEREIN IS CONSIDERED PROPRIETARY AND FOR<br/>THE USE OF INSTALLATION &amp; DOCUMENTATION ONLY. © SOMA CONTROLS.</div> <div><div><div><div><div><div></div><div>S</div><div></div></div><div>SOMA CONTROLS</div><div>BUILDING AUTOMATION ENGINEERING<br/>INDIANAPOLIS, IN - CLARKANDSOMA.COM<br/>TEL :<br/>EMAIL :<br/>TEMP. CONTROL CONTRACTOR<br/>CONTROL ENGR.<br/>APPL. ENGR.</div></div><div><div>DWG TITLE</div><div>PROJECT</div><div><div>DRAWN BY</div><div>DATE</div></div><div><div>CHECKED BY</div><div>DATE</div></div><div><div>APPROVED</div><div>DATE</div></div></div><div><div>SIZE</div><div>DWG NO</div><div>REV</div><div>SCALE</div><div>SHEET</div></div><div><div>D</div><div></div><div>—</div><div>NTS</div><div>SHEET ____ OF ____</div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   | A |
|   | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7 | 6 | 5 | 4 | 3 | 2 | 1 |   |