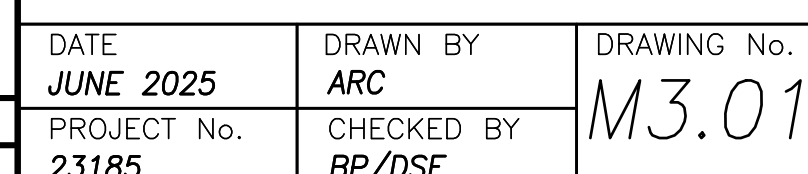
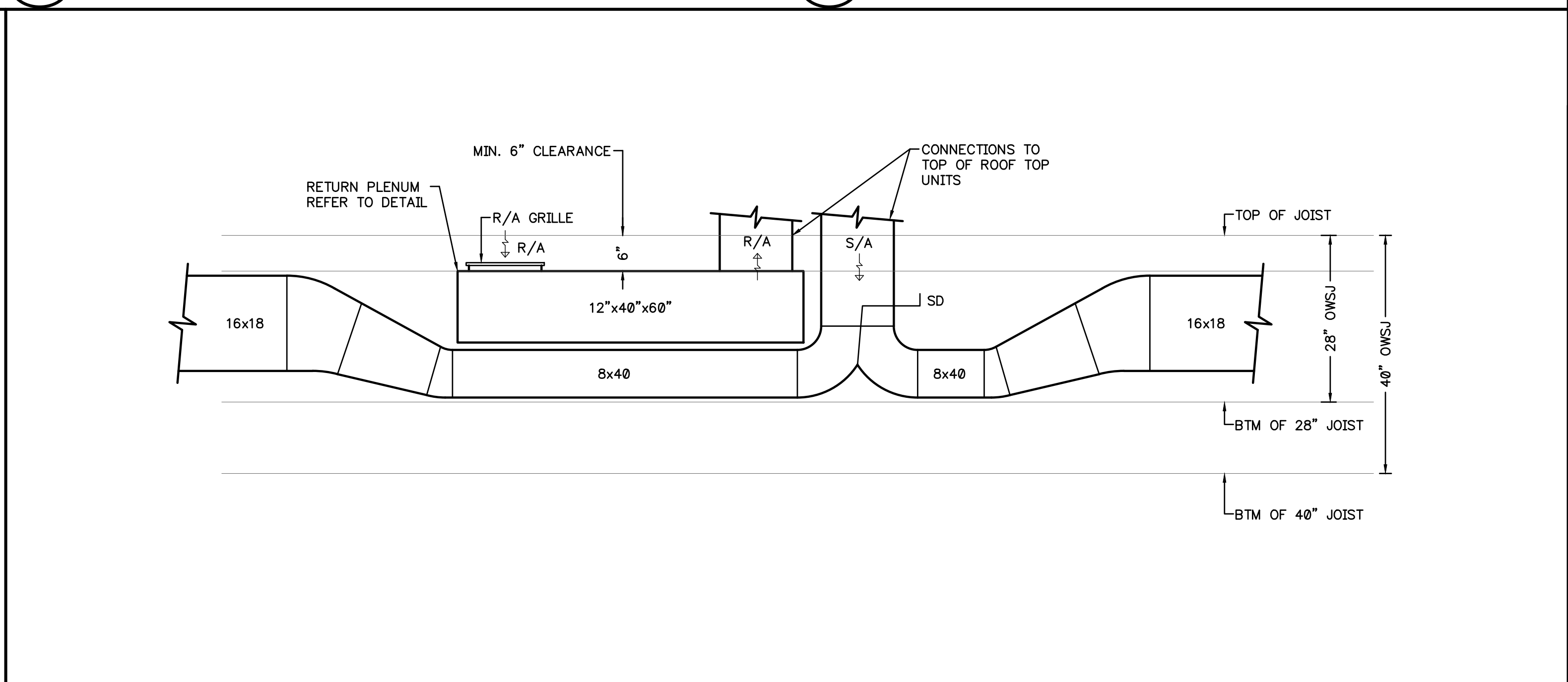
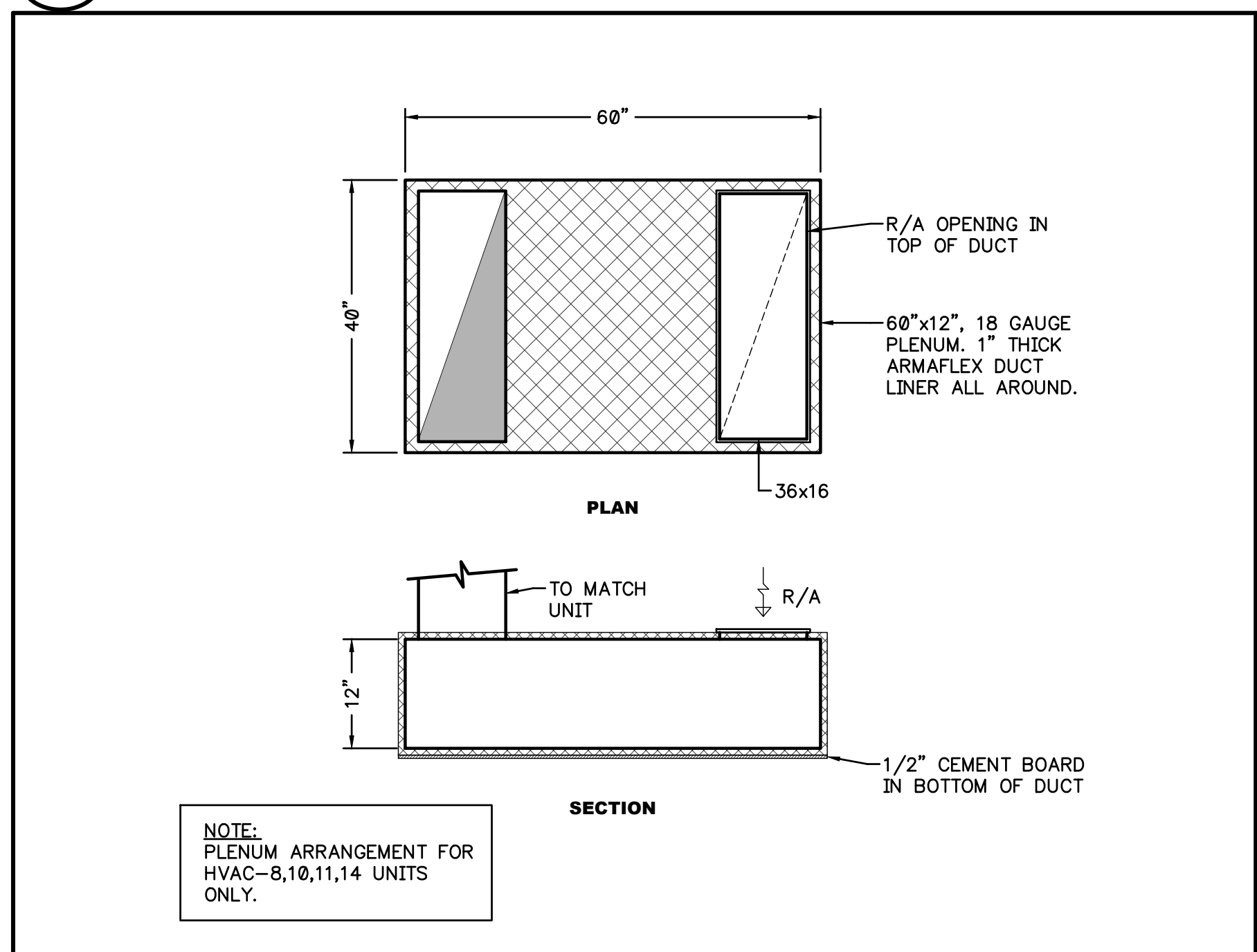
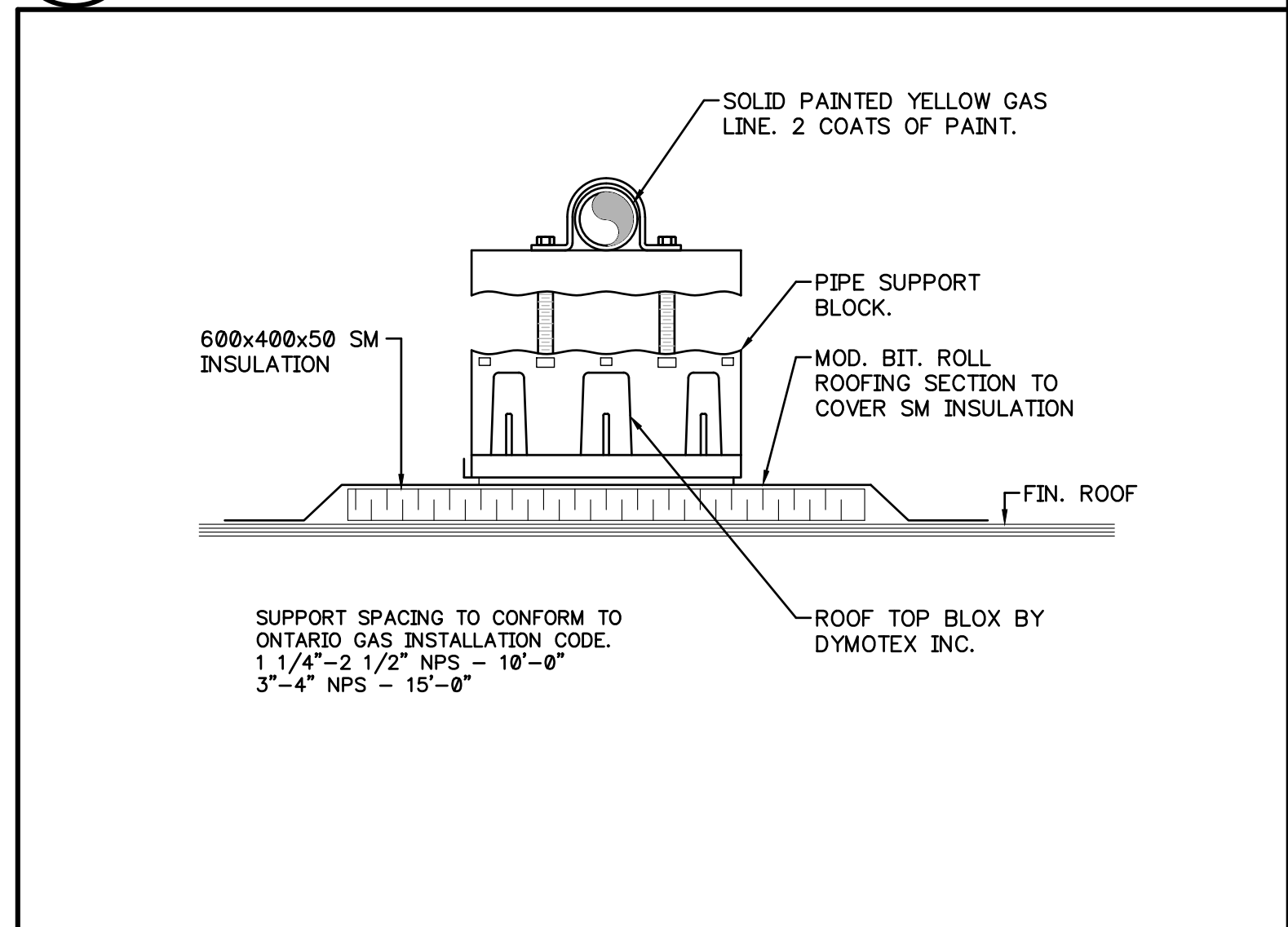
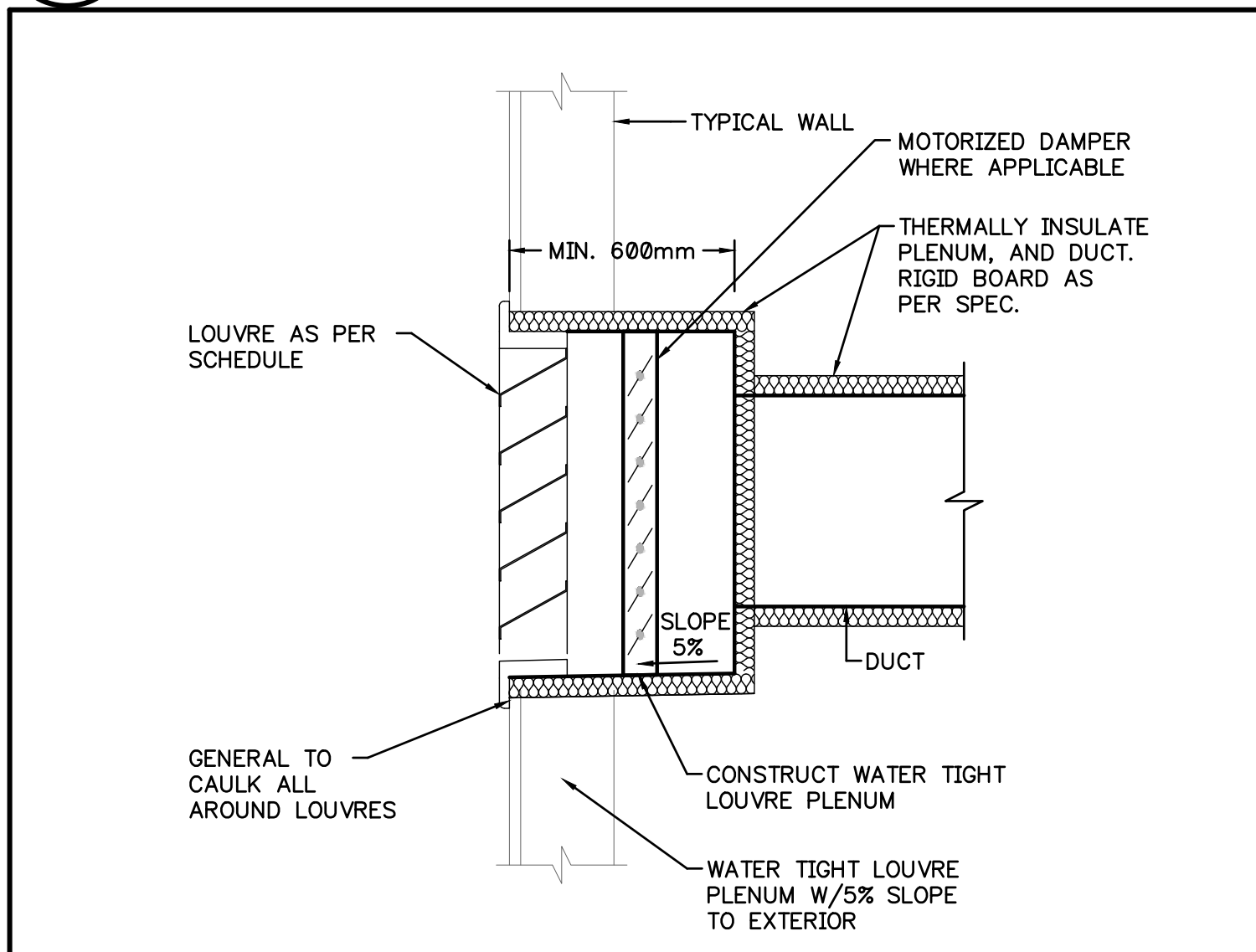
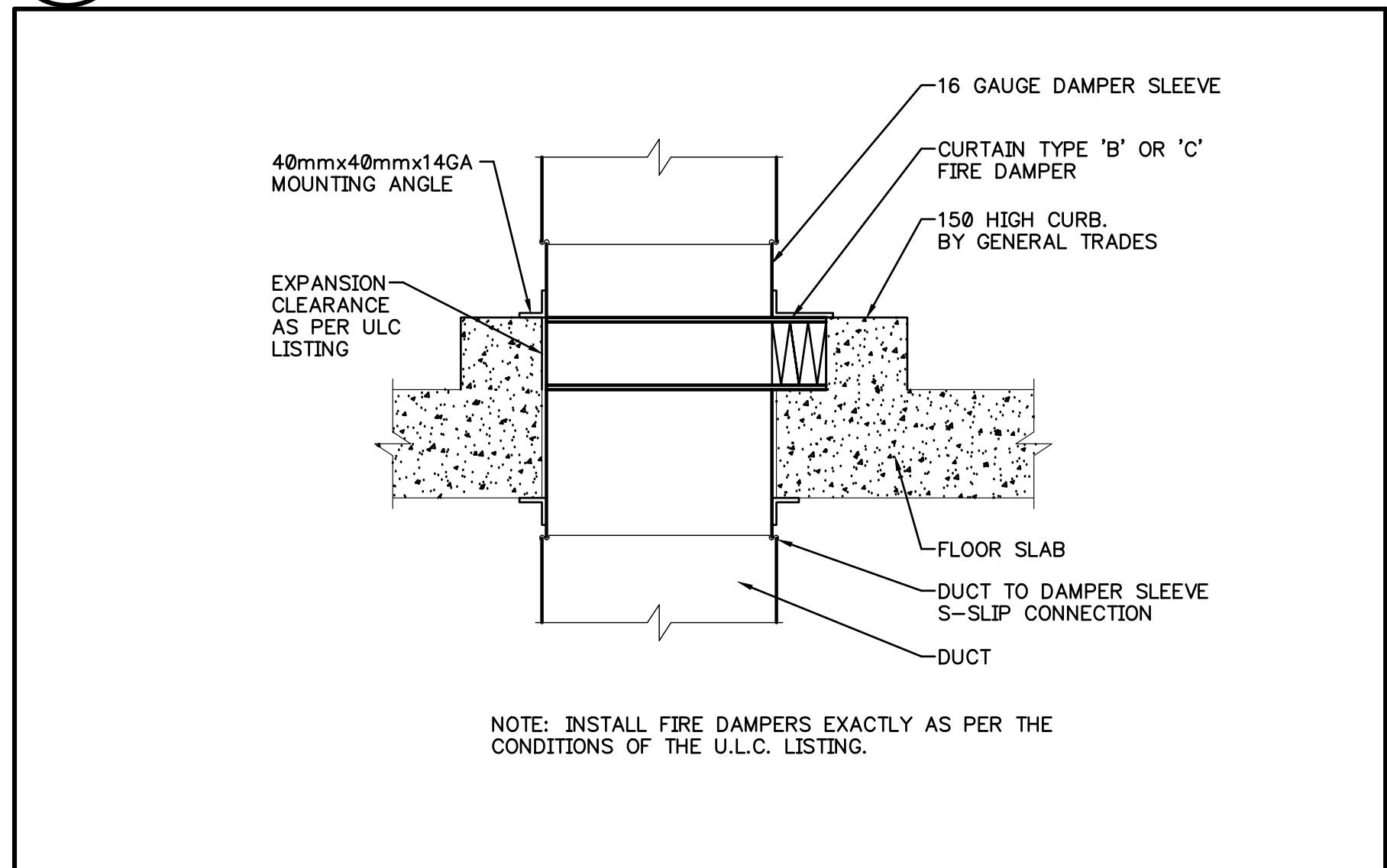
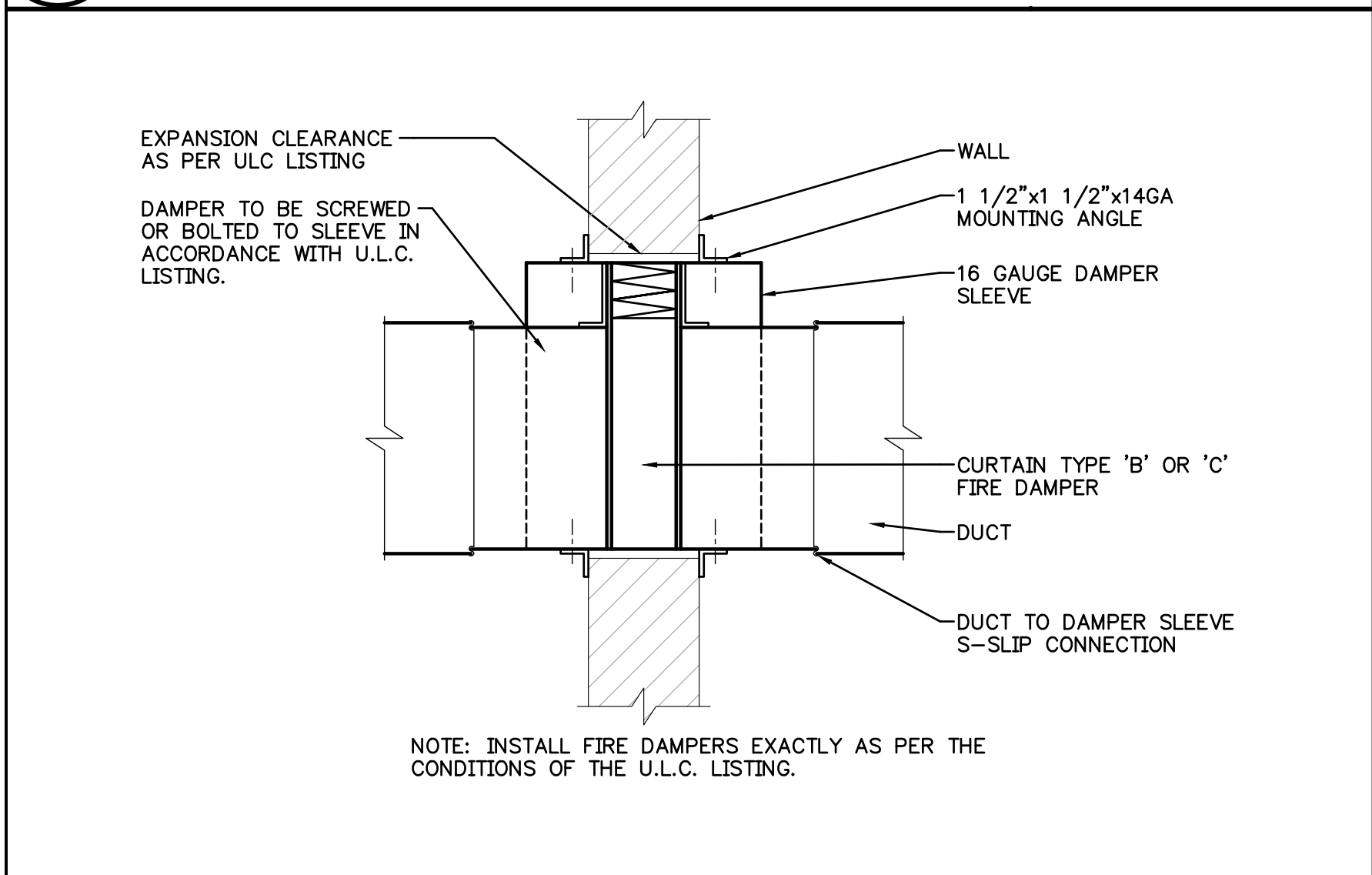
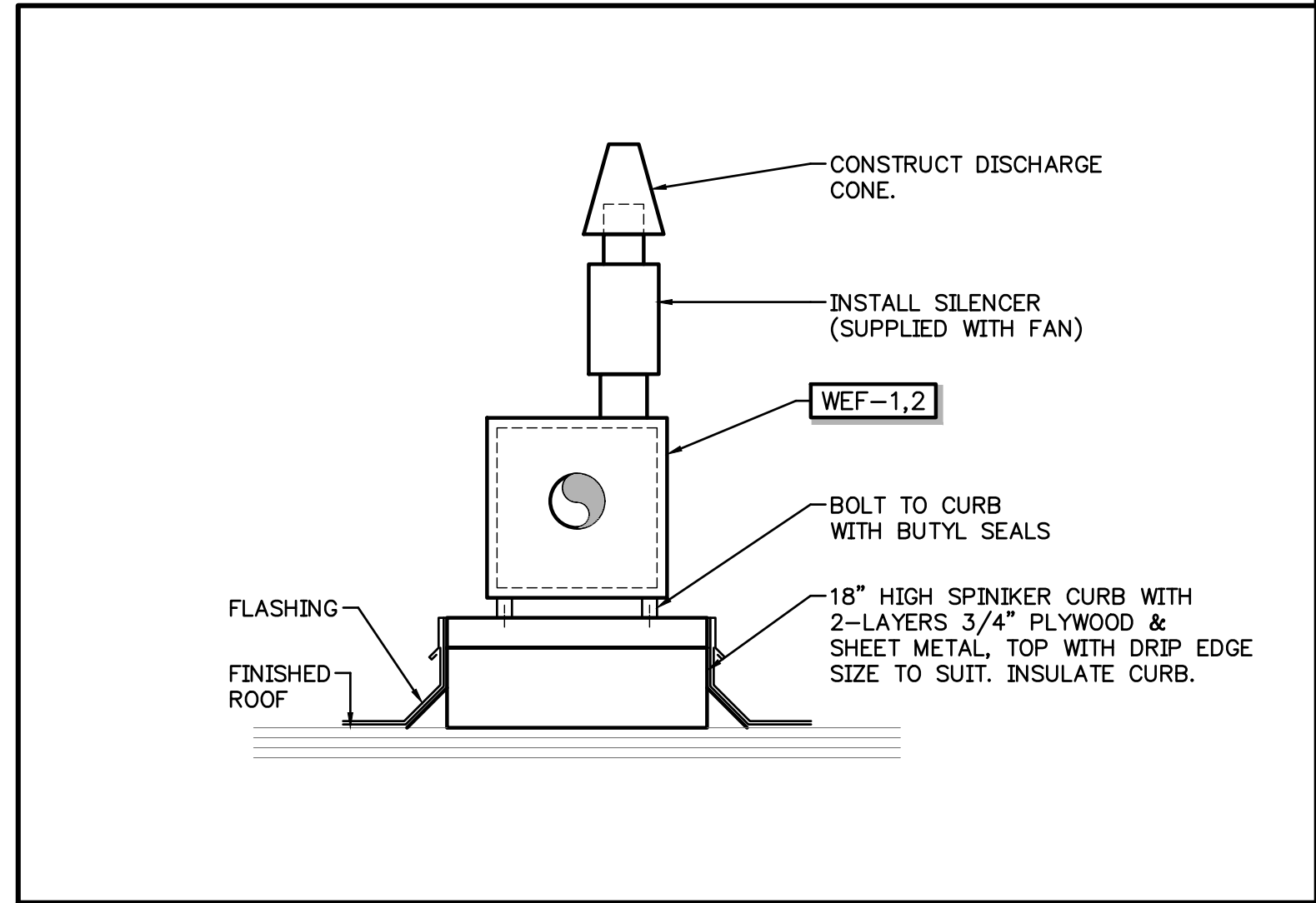
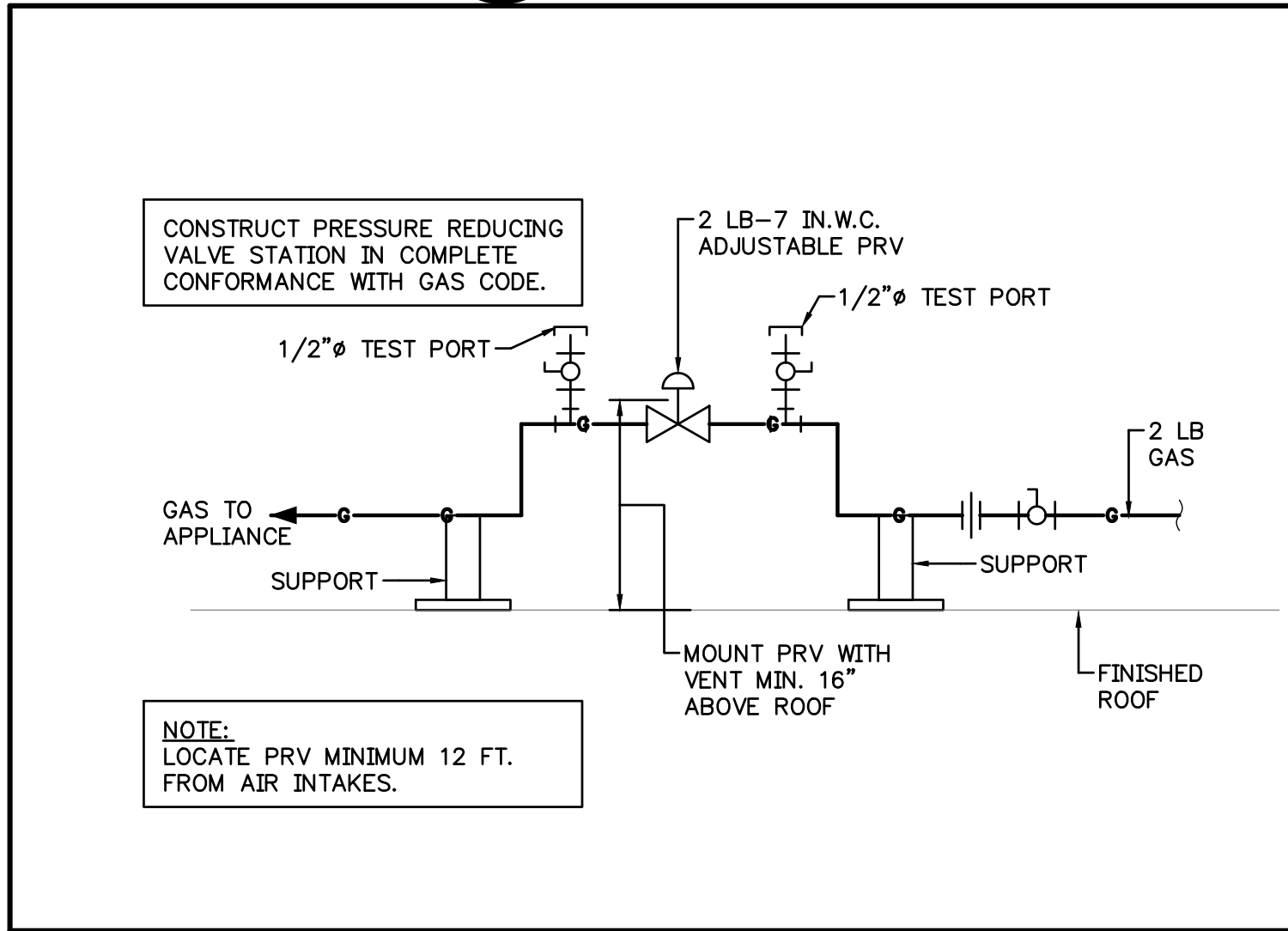
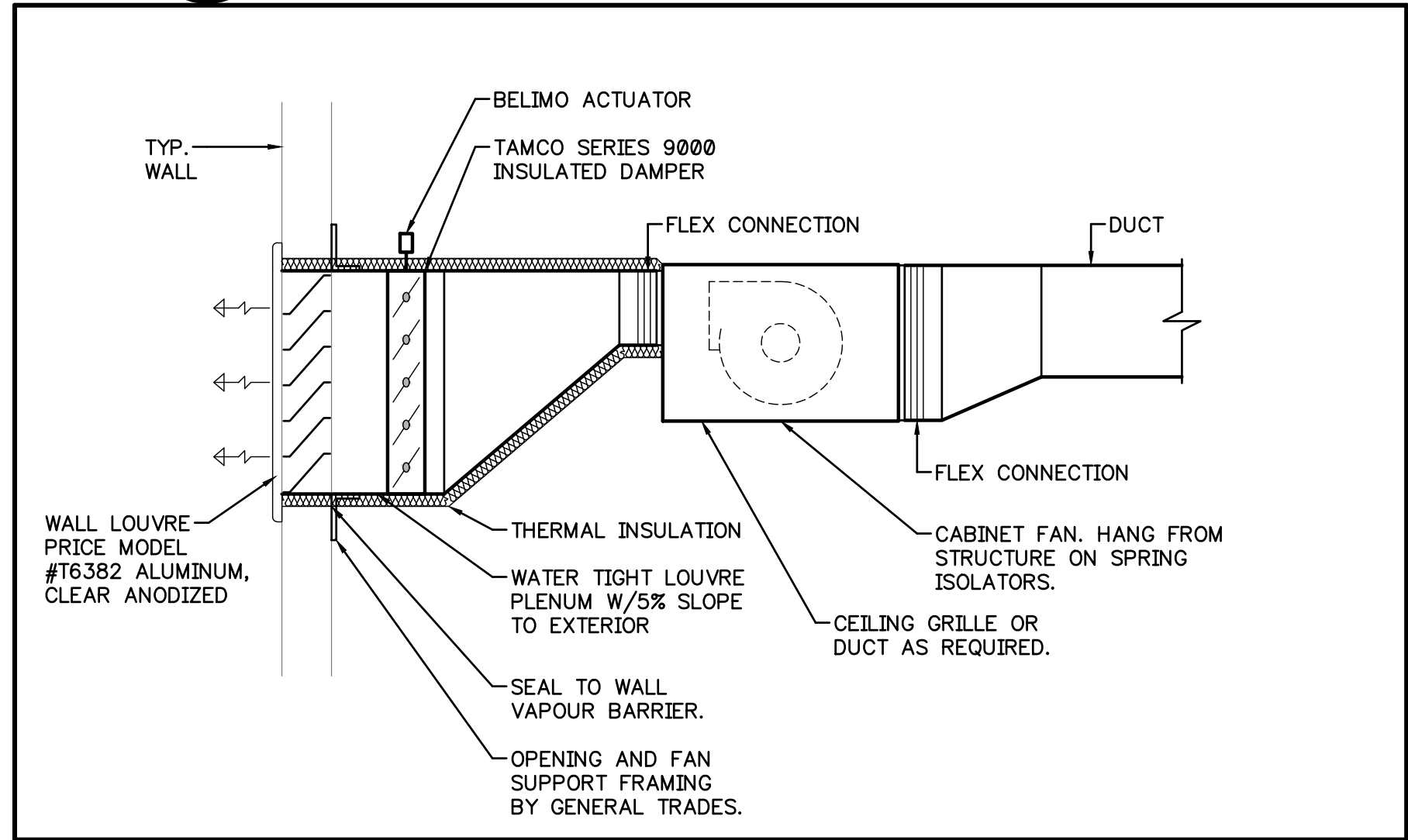
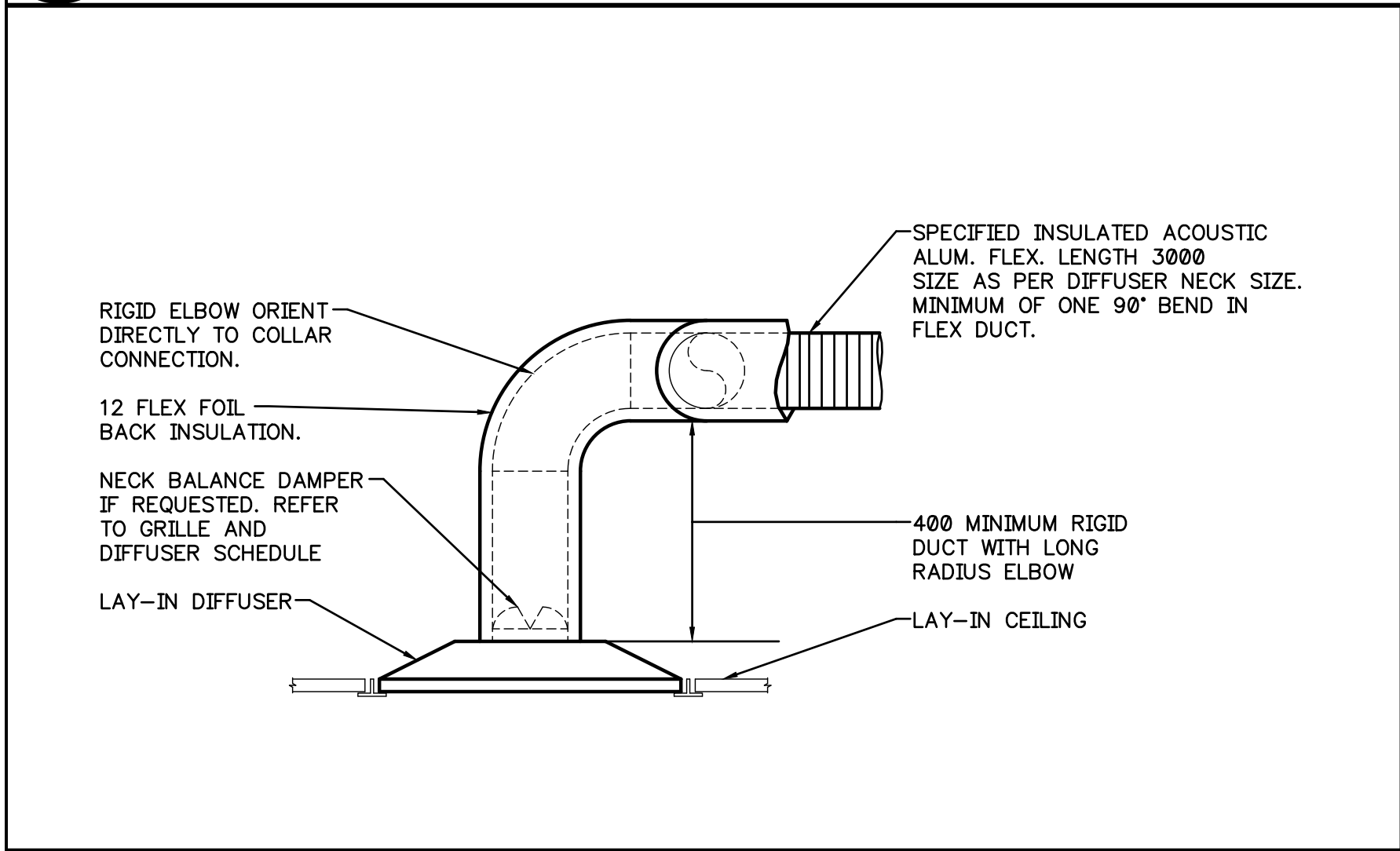
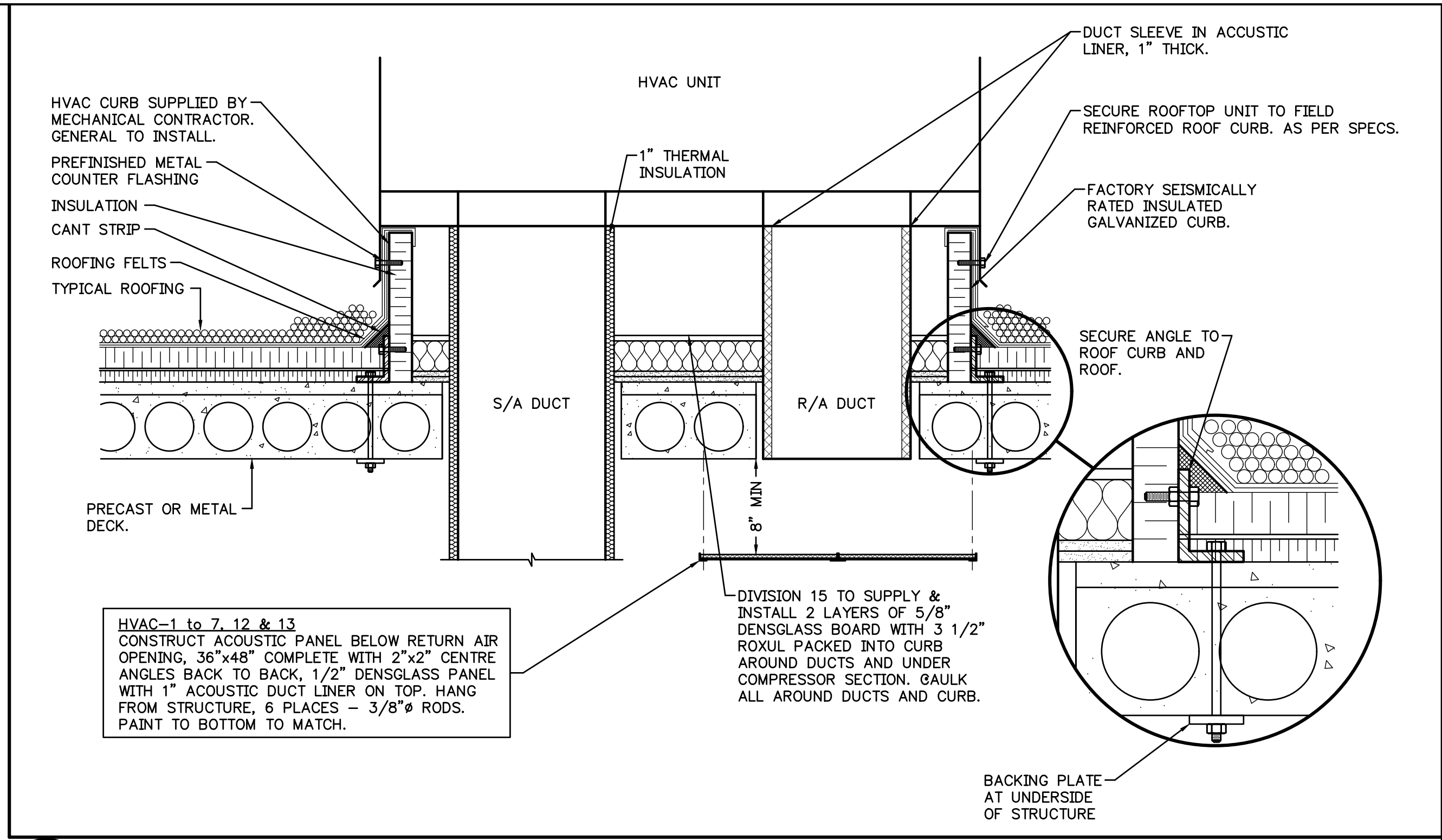
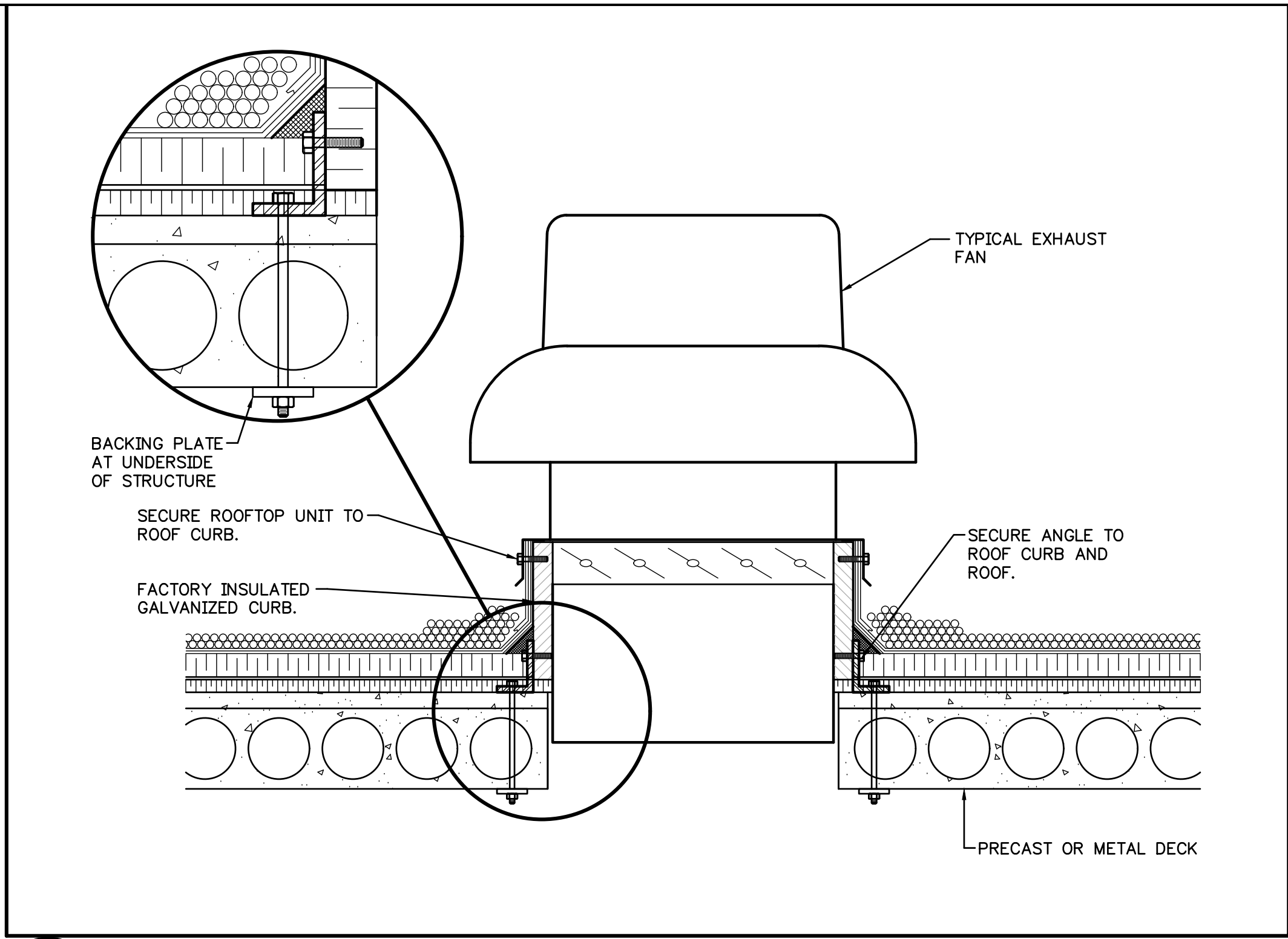
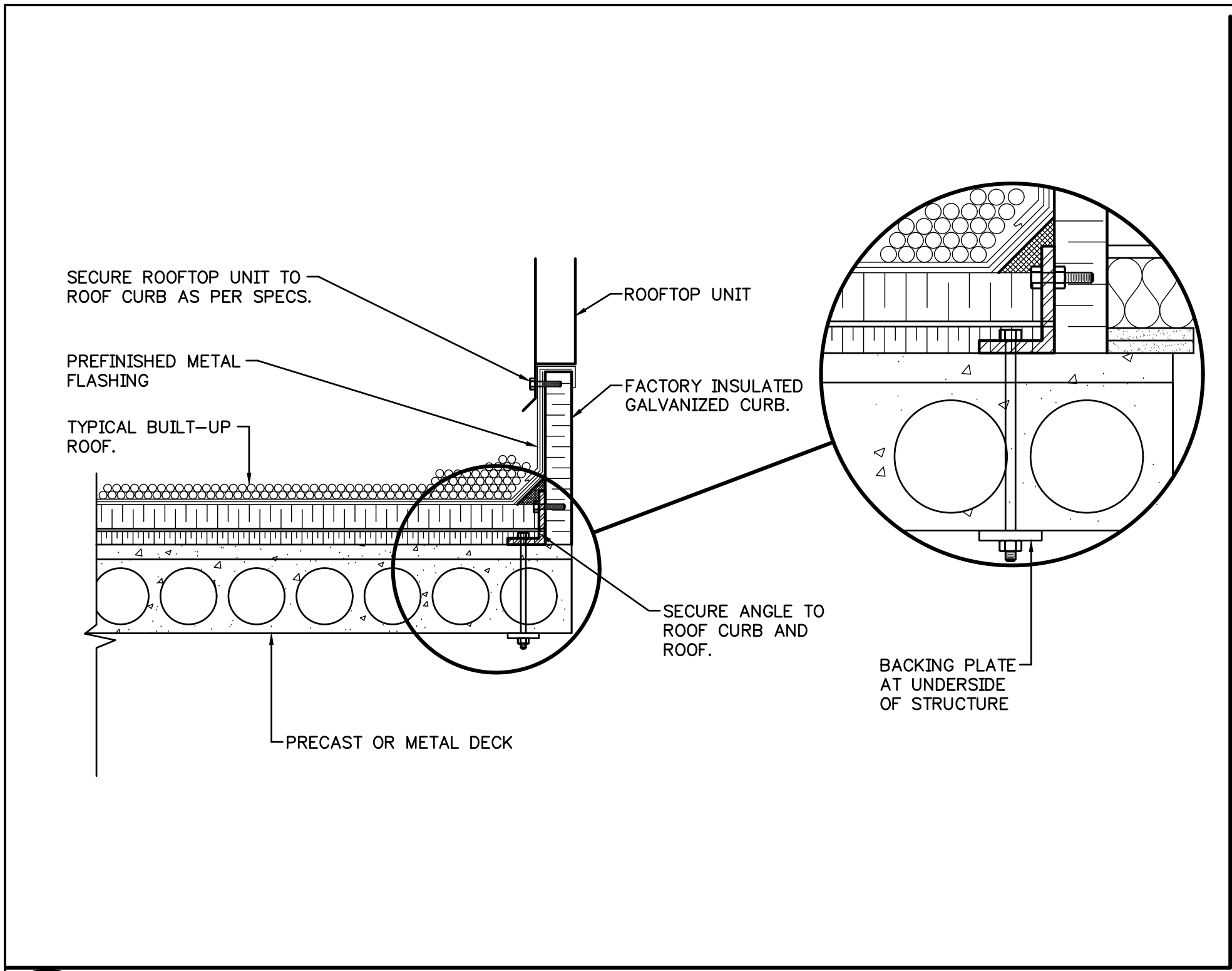




**1 ELEVATOR SUMP DETAIL**  
M3.01 SCALE: N.T.S.

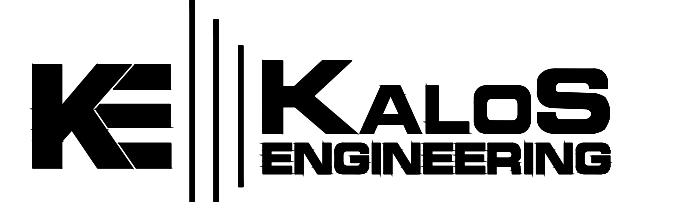




Filer Engineering Ltd.

1046 Botanical Drive  
Burlington, Ontario  
L7T 1V1  
Phone: (905) 526-1411  
Project # FB20

| 2   | AUG. 20, 2026 | ISSUED FOR PERMIT/TENDER |
|-----|---------------|--------------------------|
| 1   | 7/23/26       | ISSUED FOR COMMENT       |
| No. | DATE          | REVISION                 |



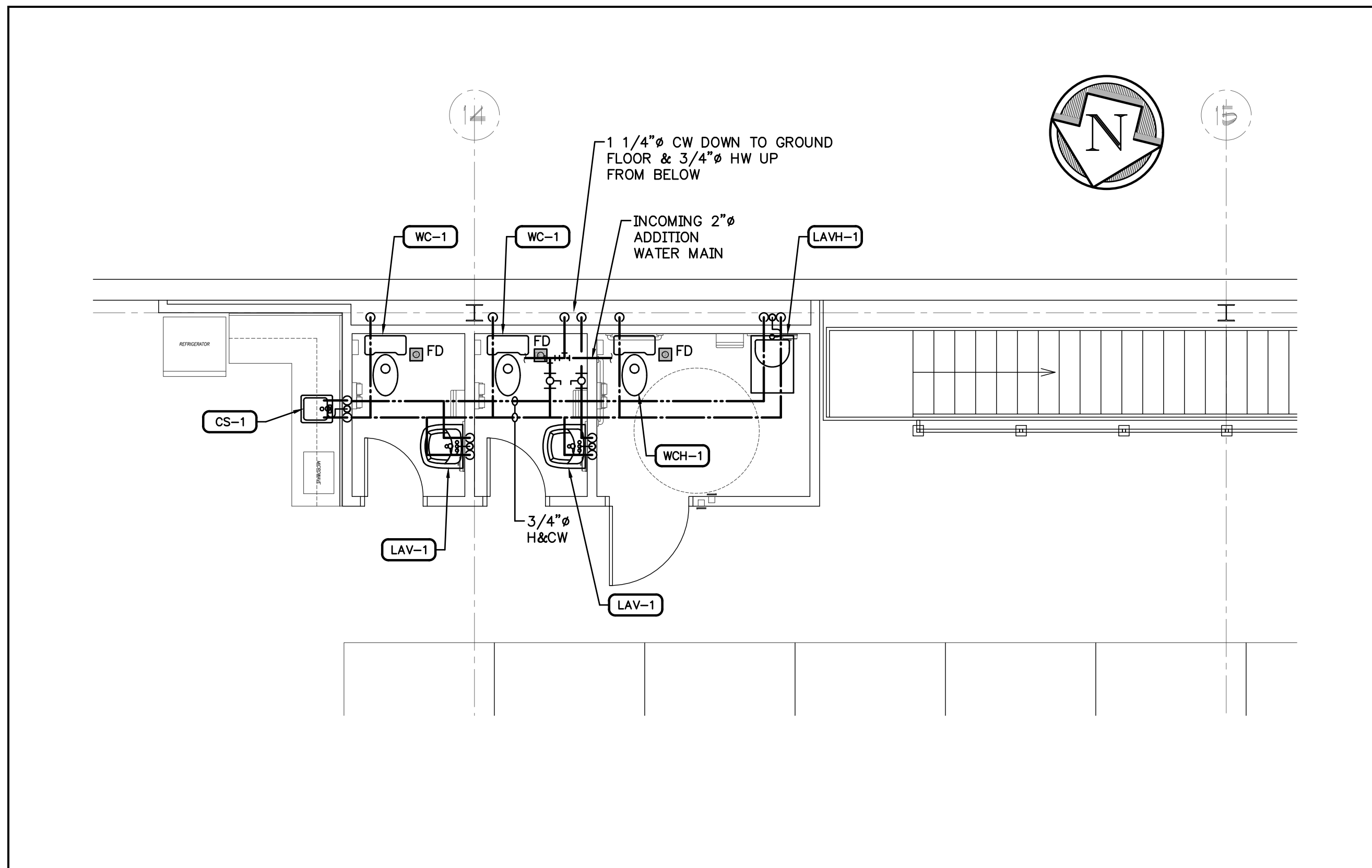
300 YORK BLVD. HAMILTON, ONTARIO L8R 3K6 905-333-9119

LIBURDI AUTOMATION INC.  
PROPOSED  
MANUFACTURING ADDITION

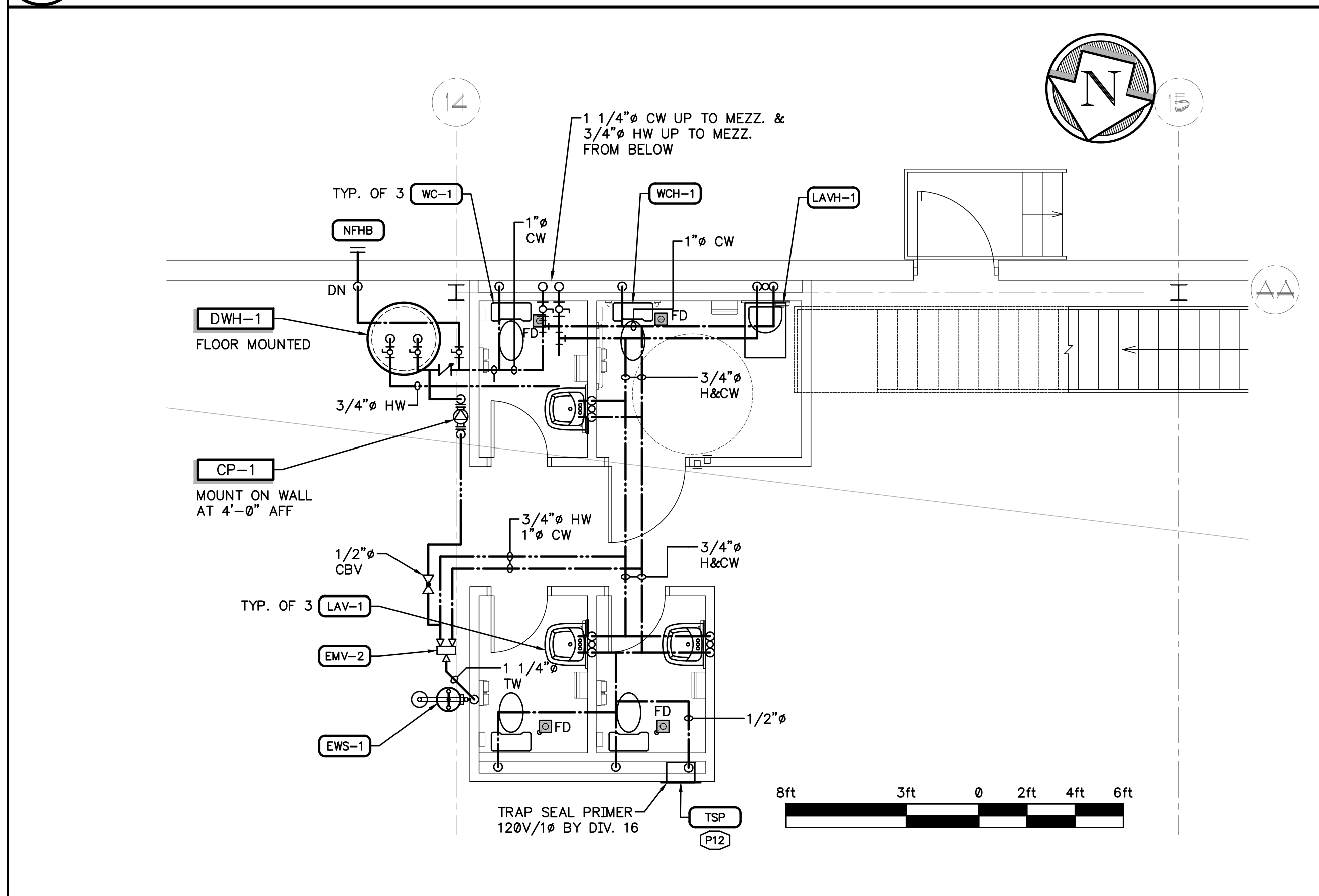
45 INNOVATION DRIVE  
DUNDAS ONTARIO

MECHANICAL  
DETAILS

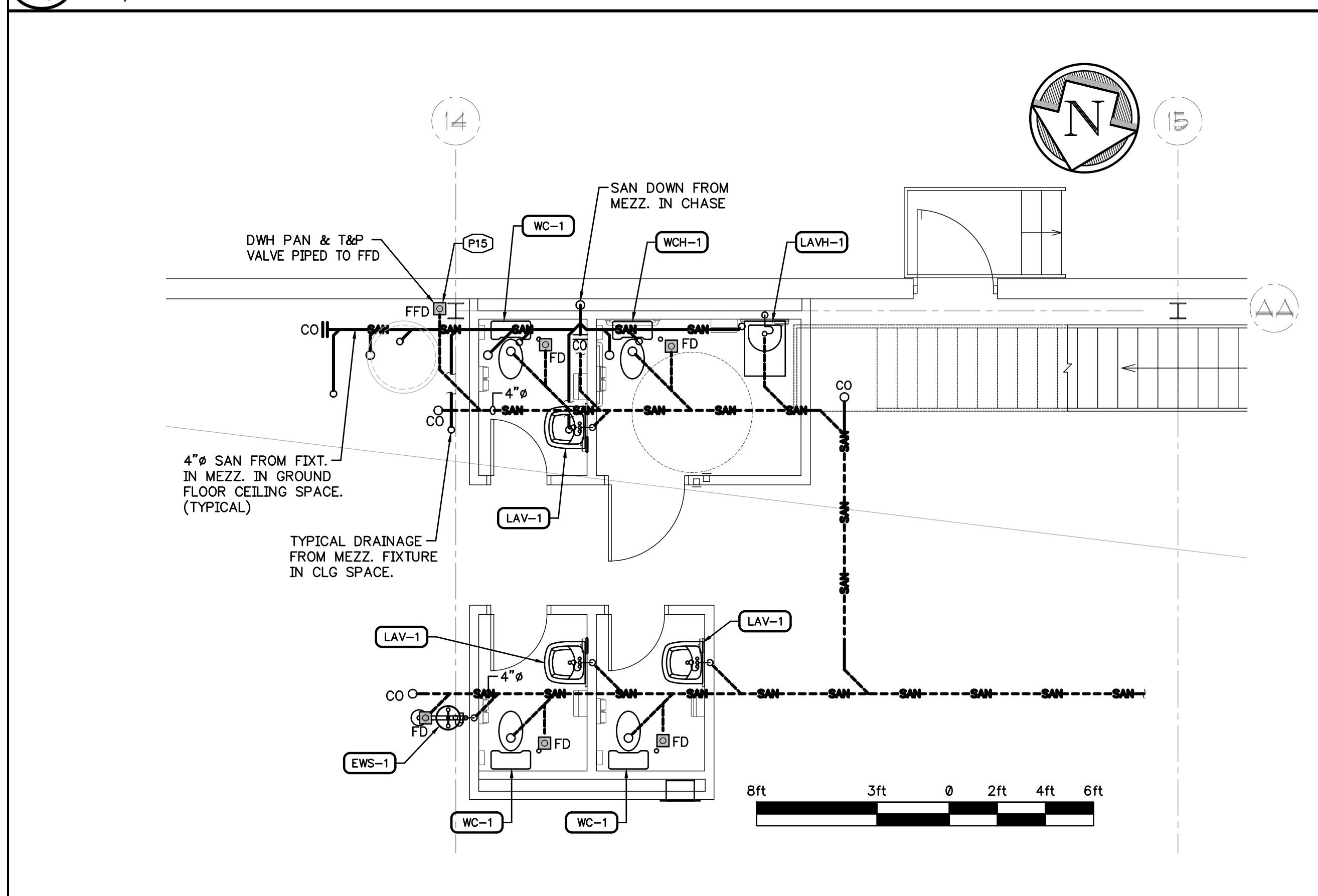
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|----------------------|----------------------|----------------------|
| DATE<br>JUNE 2025    | DRAWN BY<br>ARC      | DRAWING No.<br>M3.02 |
| PROJECT No.<br>23185 | CHECKED BY<br>BP/DSF |                      |



**6 MEZZANINE WEST PLUMBING AND DRAINAGE PLAN**  
P1.01 SCALE: 1/4"=1'-0"

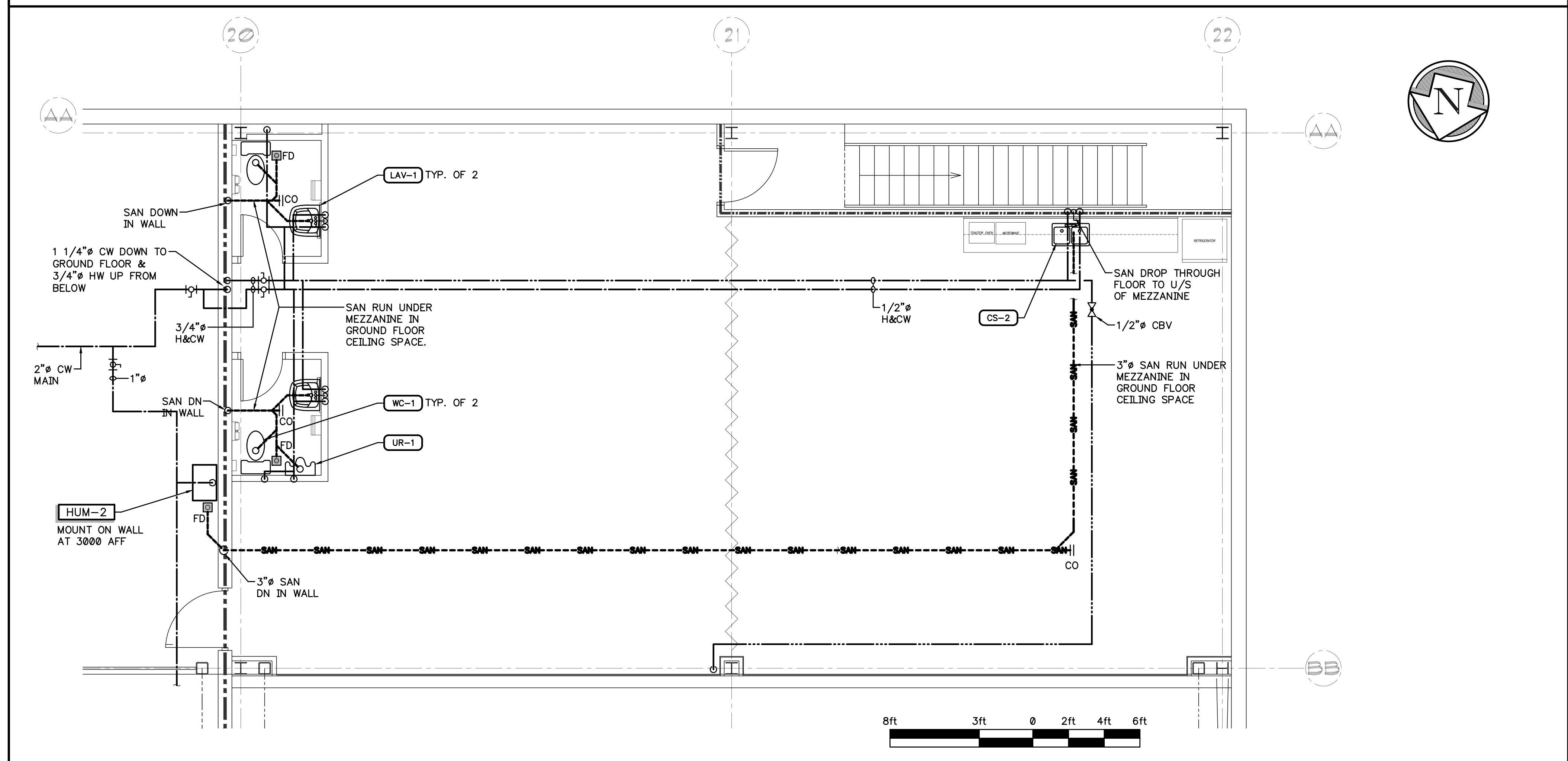


**2 GROUND FLOOR WEST WASHROOM PLUMBING DETAIL**  
P1.01 SCALE: 1/4"=1'-0"

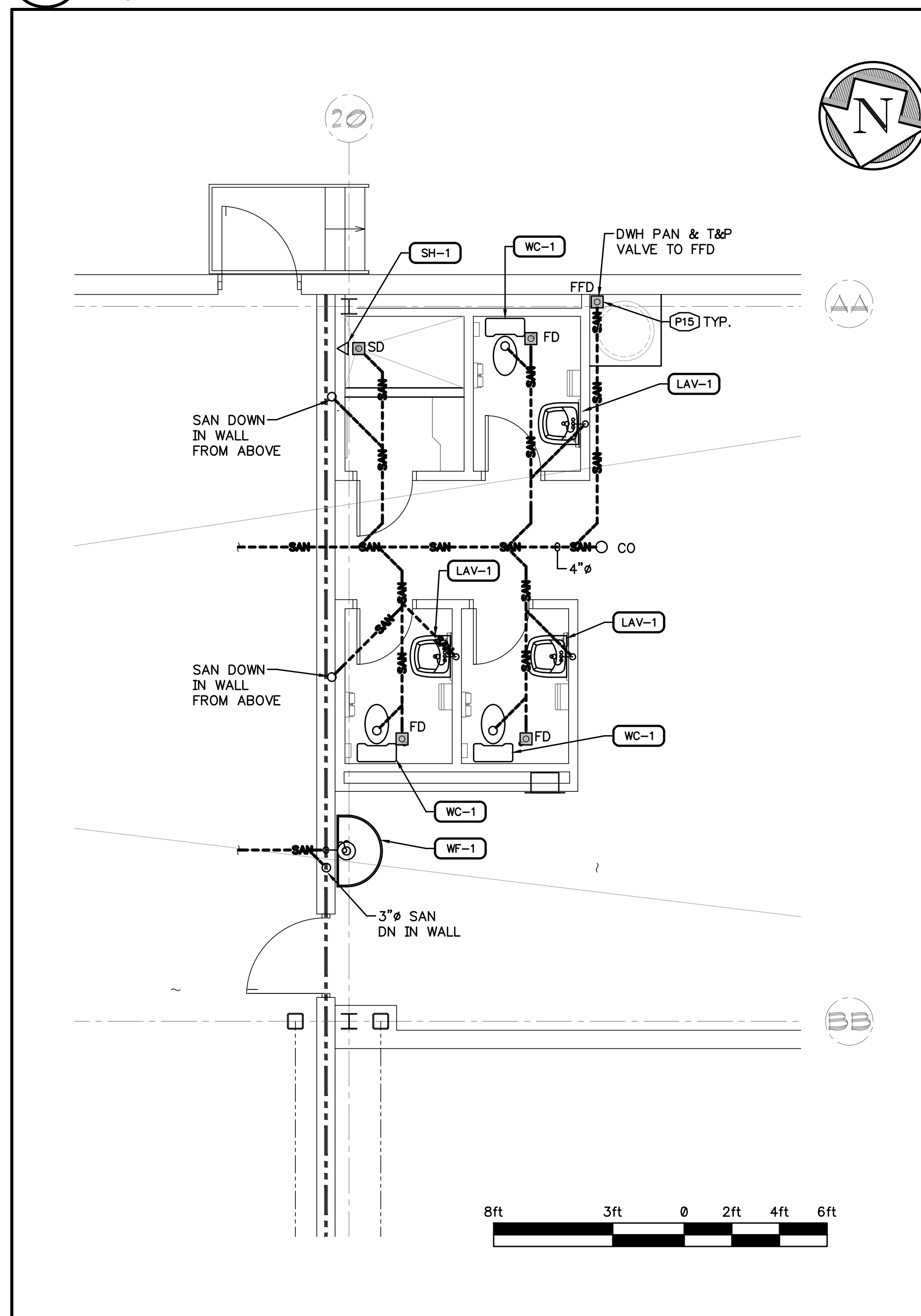


**1 GROUND FLOOR WEST WASHROOM DRAINAGE DETAIL**  
P1.01 SCALE: 1/4"=1'-0"

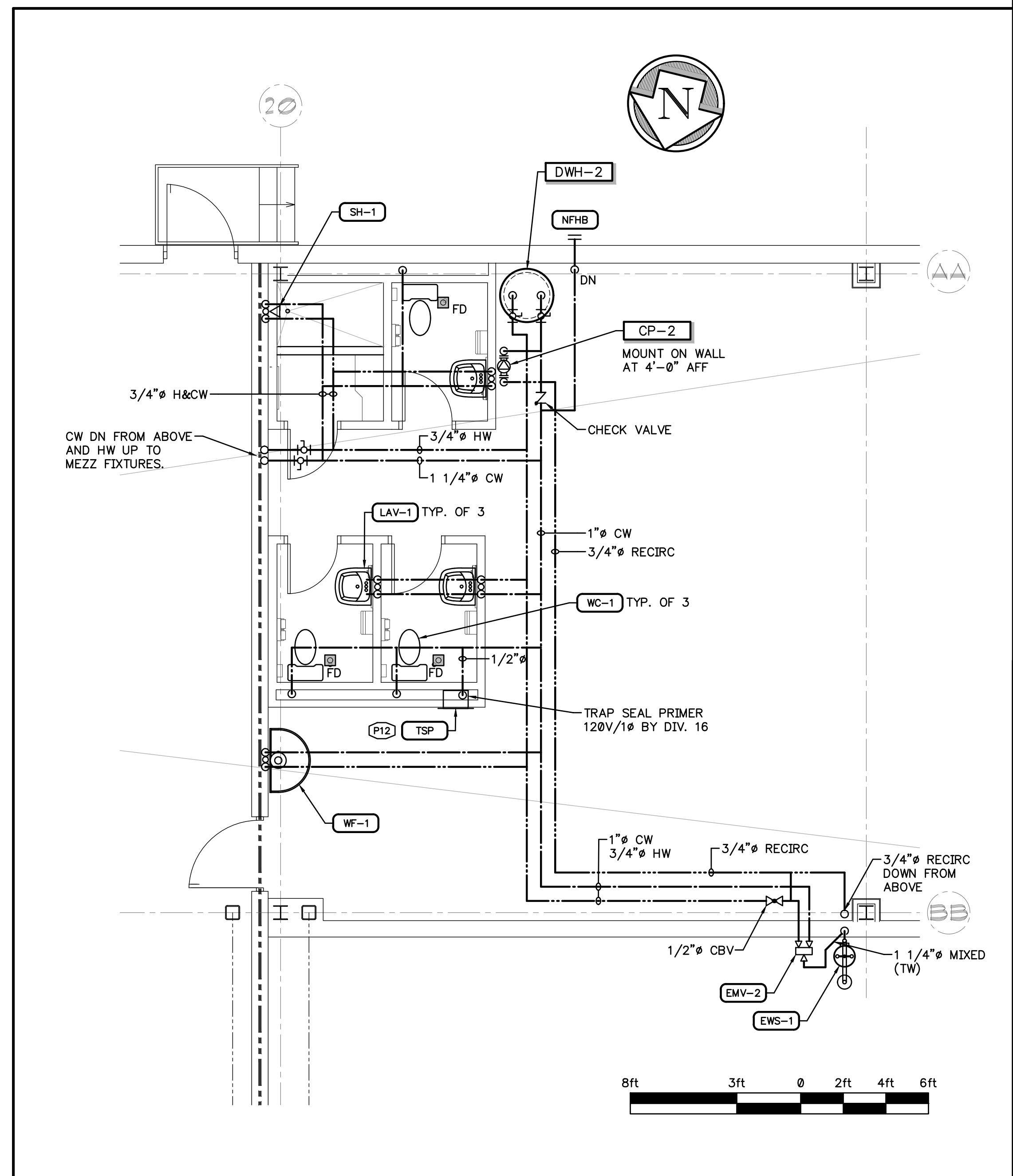
- PLUMBING NOTES** ALL NOTES APPLY SPECIFICALLY WHERE INDICATED AND IN GENERAL WHERE APPLICABLE.
- (P1) RISE/DROP IN WALL.
  - (P2) RISE/DROP IN CHASE OR FURRING.
  - (P3) RUN AT MAXIMUM ELEVATION.
  - (P4) PIPING UP TO FIXTURE ABOVE.
  - (P5) ALL ROOF DRAIN BODIES SUPPLIED AND INSTALLED BY DIVISION 15, THALER RD-40(COPPER) C/W SPECIAL 400 LONG TAILPIECE WITH CAST AL-DOME, STAINLESS STEEL SCREWS, BRONZE STABILIZER RING, ALUMINUM CLAMPING RING.
  - (P6) PLUMBING VENT STACKS BY DIVISION 15, THALER SJ-31.
  - (P7) TALLCONE FLASHINGS BY DIVISION 15, THALER MEF-4A.
  - (P8) SLEEVE THROUGH STRUCTURAL BEAM BY GENERAL TRADES AT MAXIMUM ELEVATION.
  - (P9) PIPING UP FROM GROUND FLOOR.
  - (P10) REFER TO DETAIL.
  - (P11) CONSTRUCT 13# HOSE END DRAINS WITH BALL VALVES AND CAPS.
  - (P12) SUPPLY AND INSTALL TRAP SEAL PRIMER UNIT (SMS LTD. P.P.P. MODEL # PT-1320) AND PIPE TO EACH TRAP TO BE PRIMED. PIPE TO 20# CW COMPLETE WITH BACKFLOW PREVENTER. TRAP SEAL PRIMER UNIT, MOUNT ON WALL 1.5m A.F.F., PIPE DOWN WALL IN COPPER, TRANSITION TO C.S.A. POLYETHYLENE TUBING FOR UNDER GROUND LINES WITH ROOM # OF TRAP LOCATION. REFER TO DETAIL.
  - (P13) SLEEVE AND FIRESEAL ALL PIPING PENETRATIONS.
  - (P14) RUN PIPING TIGHT TO UNDERSIDE OF ROOF/STRUCTURE.
  - (P15) CONSTRUCT 80# FUNNEL FLOOR DRAIN OR FLOOR DRAIN COMPLETE WITH TRAP SEAL PRIMER AND VENTING.
  - (P16) CONSTRUCT COLD WATER HOSE BIB, 20# INSULATED DROP (WITH ALUM. JACKET) TO BE 1200 A.F.F., C/W BALL VALVE AND HOSE FITTING.



**5 MEZZANINE WASHROOM PLUMBING AND DRAINAGE DETAIL**  
P1.01 SCALE: 1/4"=1'-0"



**3 GROUND FLOOR EAST WASHROOM DRAINAGE DETAIL**  
P1.01 SCALE: 1/4"=1'-0"



**4 GROUND FLOOR EAST WASHROOM PLUMBING DETAIL**  
P1.01 SCALE: 1/4"=1'-0"

**Filer Engineering Ltd.**  
1046 Botanical Drive  
Burlington, Ontario  
L7T 1V1  
Phone: (905) 526-1411  
Project # FB20

| REVISIONS |               |                          |  |
|-----------|---------------|--------------------------|--|
| No.       | DATE          | REVISION                 |  |
| 2         | AUG. 20, 2026 | ISSUED FOR PERMIT/TENDER |  |
| 1         | 7/23/26       | ISSUED FOR COMMENT       |  |

**KALOS ENGINEERING**  
300 YORK BLVD. HAMILTON, ONTARIO L8R 3K6 905-333-9119

**LIBURDI AUTOMATION INC.**  
**PROPOSED**  
**MANUFACTURING ADDITION**  
45 INNOVATION DRIVE DUNDAS ONTARIO

**PLUMBING AND DRAINAGE PLANS**

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| DATE<br>JUNE 2025    | DRAWN BY<br>ARC      | DRAWING No.<br>P1.01 |
| PROJECT No.<br>23185 | CHECKED BY<br>BP/DSF |                      |

| LIGHTING FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                           |
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| GENERAL NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |
| <p>1. CONTRACTOR IS TO INCLUDE FOR ALL ACCESSORIES AS REQUIRED FOR A FULL AND COMPLETE INSTALLATION. PARTS NUMBERS SHOWN ARE GENERALLY FOR FIXTURE ONLY. REFER TO ARCHITECTURAL CEILING SCHEDULE FOR CEILING TYPES AND PROVIDE REQUIRED ACCESSORIES (IE DRYWALL FLANGE KIT, ETC). DISCREPANCIES BETWEEN THE DESCRIPTION AND PART NUMBER SHOULD BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO SUBMITTING A BID.</p> <p>2. THE CONTRACTOR IS TO ALLOW FOR NORMAL DELIVERY ON FIXTURES (6-8 WEEKS FROM ACCEPTANCE OF SHOP DRAWINGS). FIXTURES FROM A QUICK SHIP PROGRAM WILL BE NOTED WHERE APPLICABLE. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS FOR FIXTURES AS SOON AS POSSIBLE TO AVOID DELAY OF THE PROJECT. ALTERATES WILL NOT BE ACCEPTED TO EXPEDITE A SCHEDULE.</p> <p>3. PENDANT AND LINEAR FIXTURES SHOWN AS END TO END ARE TO BE ORDERED AS CONTINUOUS RUN FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. FIXTURES ARE GENERALLY LISTED AS A MODULE TO CLARIFY THE SPANS OR THE LENGTHS AND LAMP REQUIRED FOR EACH MODULE. FIXTURE RUN LENGTHS SHALL BE AS SHOWN ON THE PLANS. DISCREPANCIES BETWEEN THE FIXTURE DESCRIPTION AND PLAN SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO SUBMITTING A BID.</p> <p>4. CONTRACTOR SHALL SUPPLY TO OWNER AND/OR CONSULTANT ANY DOCUMENTATION AS REQUIRED FOR OWNER TO APPLY FOR ENERGY INCENTIVES INCLUDING BUT NOT LIMITED TO BILLS OF SALE, ETC.</p> <p>5. ALL FIXTURES ARE TO HAVE SHOP DRAWINGS SUBMITTED TO THE CONSULTANT PRIOR TO ORDERING FOR GENERAL REVIEW. CONTRACTOR MUST INCLUDE SHOP DRAWINGS FOR ALL LAMPS BEING INSTALLED WITH FIXTURES.</p> <p>6. DIMMERS SHALL BE (0-10V) UNLESS SPECIFIED OTHERWISE. DIMMERS SHALL BE COMPLETE WITH ON/OFF BUTTON AND SEPARATE SLIDER TO ALLOW THE DIMMING LEVEL TO REMAIN. DIMMERS INCORPORATING SLIDE TO REMAIN ARE NOT TO BE USED. DIMMERS MUST BE FULLY TESTED AND REQUIRED SHALL BE COMPATIBLE WITH LIGHT FIXTURE AND BE CAPABLE OF 0-100% OPERATION. DIMMER SHALL BE BY LUTRON OR APPROVED EQUAL.</p> <p>7. FIXTURES BEING SUBMITTED AS AN APPROVED EQUAL ARE TO BE SUBMITTED TO THE CONSULTANT FOR APPROVAL NO LESS THAN 5 BUSINESS DAYS BEFORE CLOSING. SUBMITTALS SHALL BE CLEARLY LABELED AND INCLUDE COMPLETE FIXTURE CUTS STATING INCLUDED OPTIONS, ACCESSORIES AND FIXTURE EFFICIENCY. SUBMITTALS NOT MEETING THIS CRITERIA WILL BE REJECTED. IES FILES FOR FIXTURES MUST HAVE AN IES LAB CERTIFICATION.</p> |                                                                                                                                                                                                                                                           |
| ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DESCRIPTION                                                                                                                                                                                                                                               |
| P1-T3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>SINGLE, POLE MOUNTED, FULL-CUT OFF, LED AREA LIGHT FIXTURE, TYPE 3 DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 5873 LUMENS. C/W INTERNAL HOUSE SIDE SHIELD.</p> <p>SIGNIFY CAT No. ECF-S-32L-530-NW-G2-3-UNV-HIS OR APPROVED EQUAL</p> |
| P1-BLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>SINGLE, POLE MOUNTED, FULL-CUT OFF, LED AREA LIGHT FIXTURE, TYPE BLC DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 6330 LUMENS.</p> <p>SIGNIFY CAT No. ECF-S-32L-700-NW-G2-BLC-UNV OR APPROVED EQUAL</p>                                 |
| P1-LCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>SINGLE, POLE MOUNTED, FULL-CUT OFF, LED AREA LIGHT FIXTURE, TYPE LCL DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 4415 LUMENS.</p> <p>SIGNIFY CAT No. ECF-S-32L-700-NW-G2-LCL-UNV OR APPROVED EQUAL</p>                                 |
| P1-RCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>SINGLE, POLE MOUNTED, FULL-CUT OFF, LED AREA LIGHT FIXTURE, TYPE RCL DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 4415 LUMENS.</p> <p>SIGNIFY CAT No. ECF-S-32L-700-NW-G2-RCL-UNV OR APPROVED EQUAL</p>                                 |
| WP-T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>LED EXTERIOR WALL MOUNTED FIXTURE, FULL-CUT OFF, TYPE 2 DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 1050 LUMENS.</p> <p>SIGNIFY CAT No. LPW-7-10-NW-G3-2-8-UNV OR APPROVED EQUAL</p>                                                   |
| WP-T3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>LED EXTERIOR WALL MOUNTED FIXTURE, FULL-CUT OFF, TYPE 3 DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 4206 LUMENS.</p> <p>SIGNIFY CAT No. 121-16L-700-NW-G4-3-UNV OR APPROVED EQUAL</p>                                                  |
| WP-T4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>LED EXTERIOR WALL MOUNTED FIXTURE, FULL-CUT OFF, TYPE 4 DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K, 70CRI, 4217 LUMENS.</p> <p>SIGNIFY CAT No. 121-16L-700-NW-G4-4-UNV OR APPROVED EQUAL</p>                                                  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>1'x2' LED HIGH BAY FIXTURE, WIDE DISTRIBUTION. 120-277V, 0-10V DIMMING DRIVER, 4000K 80CRI, 12000 LUMENS.</p> <p>SIGNIFY CAT No.: FB212L840-UNV-W OR APPROVED EQUAL</p>                                                                                |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>4' LED SURFACE MOUNT STRIP FIXTURE. 120-277V, 0-10V DIMMING DRIVER, 4000K, 80CRI, 4000 LUMENS.</p> <p>SIGNIFY CAT No.: F3440L840-UNV-DIM OR APPROVED EQUAL</p>                                                                                         |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>1'x4' LED TROFFER FIXTURE. 120-277V, 0-10V DIMMING DRIVER, 4000K 80CRI, 3000 LUMENS.</p> <p>SIGNIFY CAT No.: 1FP230L840-4-DS-UNV-DIM OR APPROVED EQUAL</p>                                                                                             |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>2'x4' LED TROFFER FIXTURE. 120-277V, 0-10V DIMMING DRIVER, 4000K 80CRI, 3000 LUMENS.</p> <p>SIGNIFY CAT No.: 2FP230L840-4-DS-UNV-DIM OR APPROVED EQUAL</p>                                                                                             |

| EMERGENCY LIGHTING FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p><b>GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>CONTRACTOR IS TO INCLUDE FOR ALL ACCESSORIES AS REQUIRED FOR A FULL AND COMPLETE INSTALLATION. PARTS NUMBER SHOWN ARE GENERALLY FOR FIXTURE ONLY. REFER TO ARCHITECTURAL CEILING SCHEDULE FOR CEILING TYPES.</li> <li>INSTALLATION OF EMERGENCY LIGHTING AND UNIT EQUIPMENT SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO CODE REQUIREMENTS.</li> <li>EMERGENCY BATTERIES SHALL BE SIZED TO MAINTAIN CONNECTED LOAD FOR MINIMUM 1/2 HOUR.</li> <li>FOR ALL EXIT SIGNS REFER TO FLOOR PLANS FOR SINGLE OR DOUBLE FACE, CEILING RECESSED OR WALL MOUNTED.</li> <li>ALL EMERGENCY LIGHTING AND EQUIPMENT ARE TO HAVE SHOP DRAWINGS SUBMITTED TO THE CONSULTANT PRIOR TO ORDERING FOR APPROVAL. CONTRACTOR MUST INCLUDE SHOP DRAWINGS FOR ALL LAMPS BEING INSTALLED WITH FIXTURES.</li> <li>EQUIPMENT BEING SUBMITTED AS AN APPROVED EQUAL ARE TO BE SUBMITTED TO THE CONSULTANT FOR APPROVAL. NO LESS THAN 5 BUSINESS DAYS BEFORE CLOSING. SUBMITTALS SHALL BE CLEARLY LABELED AND INCLUDE COMPLETE FIXTURE CUTS STATING INCLUDED OPTIONS AND ACCESSORIES. SUBMITTALS NOT MEETING THIS CRITERIA WILL BE REJECTED.</li> <li>THE CONTRACTOR SHALL INCLUDE FOR TWO (2) SPARE EXIT SIGNS TO BE INSTALLED AS DIRECTED BY OWNER/ENGINEER/BUILDING OFFICIAL. UNUSED SPARE SIGNS SHALL BE TURNED OVER TO OWNER IF NOT REQUIRED.</li> <li>PRIOR TO THE INSTALLATION OF EXIT SIGNS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ENSURE THE EXIT SIGN(S) IS NOT OBSTRUCTED (IE BLOCKED BY BULKHEADS, LIGHTS, DUCTS, ETC). THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST INSTRUCTION TO COVER THE INSTALLATION SHOULD AN OBSTRUCTION BE PRESENT. THE SIGN IS TO BE CLEARLY VISIBLE FROM A DISTANCE.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EXIT SIGN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>SELF-POWERED EMERGENCY RUNNING MAN EXIT SIGN C/W DIRECTIONAL PHOTOGRAMS FOR ON-SITE DIRECTION SELECTION. 1-1.5W LED 120VAC, 120VDC. REFER TO FLOOR PLANS FOR SINGLE OR DOUBLE FACE, CEILING RECESSED OR WALL MOUNT.</p> <p>AMILITE "PALW" SERIES RPALW-X-M-WHT-BAT<br/>           STAMPRO "RMAL" SERIES RMLXWL100-IB<br/>           LUMACAL "LA" SERIES LAXLWS<br/>           OR APPROVED EQUAL</p>                                                                                |
| EMERG. BATTERY UNIT C/W EMERG. HEADS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>SURFACE MOUNTED BATTERY UNIT C/W TWIN HEADS AS INDICATED. MOUNTED AT 12" BELOW CEILING OR 10'-0" A.F.F. 2-3W LED PAR18 (2-6W MR16LED), 120VAC, 120VDC. UNIT TO BE C/W AUTO-TEST AND BATTERY DISCONNECT.</p> <p>AMILITE "EBST" SERIES EBST-12-250-25M3WLJ-WHT-ATD-BTD<br/>           STANPRO "SLR" SERIES SLC-12-250-25M3WLJ-WHT-AT-BD<br/>           LUMACAL "RGS" SERIES RG12S-250-25LD10-AT-LD<br/>           OR APPROVED EQUAL</p>                                              |
| EMERG. REMOTE HEADS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>REMOTE EMERGENCY SINGLE AND DOUBLE HEAD AS INDICATED ON PLANS. 3W LED PAR18 (6W MR16LED), 120VDC.</p> <p>AMILITE "RMSM1-6-12-3WLJ-WHT" &amp; "RMSM2-6-12-3WLJ-WHT"<br/>           STAMPRO "N-1-12-3WLJ-WHT" &amp; "N-2-6-12-3WLJ-WHT"<br/>           LUMACAL "QM01LD10" &amp; "QM02LD10"<br/>           OR APPROVED EQUAL</p>                                                                                                                                                      |
| COMBO. EXIT/EMERG. LIGHTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>RUNNING MAN EXIT SIGN C/W PHOTOGRAMS FOR ON-SITE DIRECTION SELECTION AS INDICATED. TWIN HEADS. 1-1.5W LED, 3W LED PAR18 (6W-MR16LED), 120VAC. REFER TO FLOOR PLANS FOR SINGLE OR DOUBLE FACE, CEILING RECESSED OR WALL MOUNT. UNIT TO BE SELF-POWERED &amp; C/W AUTO-TEST.</p> <p>AMILITE CAT.# CARPW1250-X-M-25M3WLJ-WHT-ATD-BTD<br/>           STAMPRO CAT.# PRMXL1050-X-2N3LJ-WHT-AT-BD<br/>           LUMACAL CAT.# LAC-X-M-1250-2LD10-AT<br/>           OR APPROVED EQUAL</p> |

| SECURITY, ACCESS CONTROL, CCTV                                                      |                                       |
|-------------------------------------------------------------------------------------|---------------------------------------|
|  | AREA TYPE BREAK GLASS DETECTOR        |
|  | SINGLE-PANE TYPE BREAK GLASS DETECTOR |
|  | DOOR CONTACT                          |
|  | ROLL-UP OR OVERHEAD DOOR DOOR CONTACT |
|  | MOTION DETECTOR                       |
|  | PHOTO-ELECTRIC BEAM SOURCE            |
|  | PHOTO-ELECTRIC BEAM REFLECTOR         |
|  | SECURITY SYSTEM ALARM SIGNAL          |
|  | VIDEO MONITORING CAMERA               |
|  | POWER DOOR PUSH BUTTON OPERATOR       |
|  | AUTOMATIC DOOR OPENER                 |
|  | CARD READER                           |
|  | ELECTRIC STRIKE                       |
|  | ELECTRIC LATCH RETRACTION             |
|  | ELECTRONIC KEY PAD                    |
|  | EMERGENCY PUSH BUTTON                 |
|  | MAGNETIC LOCK                         |
|  | OCCUPIED LIGHT                        |
|  | CAMDEN LED ANNUNCIATOR CM-AF-500      |
|  | PUSH TO RELEASE                       |
|  | PUSH TO LOCK                          |
|  | CAMDEN PUSHBUTTON CM-400/8            |
|  | REQUEST TO EXIT                       |
|  | SCRAMBLE PAD                          |
|  | HANDS FREE SWITCH                     |
|  | CAMDEN SURESAVE CM-324/3              |

| FIRE ALARM                                                                            |                                                                                     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | PHOTOELECTRIC TYPE SMOKE DETECTOR                                                   |
|    | PHOTOELECTRIC TYPE SMOKE DETECTOR WITH A RELAY BASE.                                |
|    | PHOTOELECTRIC TYPE SMOKE ALARM, 120VAC WITH BATTERY BACKUP, INTERCONNECTED AS SHOWN |
|    | PHOTOELECTRIC TYPE DUCT SMOKE DETECTOR                                              |
|    | RATE OF RISE AND 57°C FIXED TEMPERATURE HEAT DETECTOR                               |
|    | 92°C FIXED TEMPERATURE HEAT DETECTOR                                                |
|    | MANUAL PULL STATION                                                                 |
|    | ELECTRIC SUPERVISED VALVE                                                           |
|    | FLOW SWITCH                                                                         |
|  | PRESSURE SWITCH                                                                     |
|  | FIRE ALARM SIGNALING APPLIANCE – BELL                                               |
|  | FIRE ALARM SIGNALING APPLIANCE – HORN                                               |
|  | FIRE ALARM SIGNALING APPLIANCE – STROBE                                             |
|  | FIRE ALARM SIGNALING APPLIANCE – COMBINATION HORN AND STROBE WALL/COLUMN MOUNT      |
|  | FIRE ALARM SIGNALING APPLIANCE – COMBINATION HORN AND STROBE CEILING MOUNT          |
|  | FIRE ALARM DOOR RELEASE DEVICE                                                      |
|  | FIRE ALARM SPEAKER – WALL/COLUMN MOUNT                                              |
|  | FIRE ALARM SPEAKER – CEILING MOUNT                                                  |
|  | FIRE FIGHTERS HANDSET                                                               |
|  | FIRE ALARM ANNUNCIATOR PANEL                                                        |
|  | FIRE ALARM CONTROL PANEL                                                            |
|  | FIRE ALARM – CARBON MONOXIDE DETECTOR                                               |
|  | FIRE ALARM – CARBON DIOXIDE DETECTOR                                                |
|  | SMOKE OR FIRE DAMPER                                                                |
|  | CONNECT TO FIRE ALARM SYSTEM AND POWER                                              |

| LIGHTING FIXTURES                                                                   |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | SURFACE OR RECESS MOUNTED LIGHTING FIXTURES. LETTER DENOTES TYPE                                                                                                                               |
|  | SURFACE OR RECESS MOUNTED LIGHTING FIXTURES ON AN EMERGENCY OR NIGHT LIGHT CIRCUIT. LETTER DENOTES TYPE.                                                                                       |
|  | SURFACE OR RECESS MOUNTED LIGHTING FIXTURES. LETTER DENOTES TYPE.                                                                                                                              |
|  | SURFACE OR RECESS MOUNTED LIGHTING FIXTURES ON AN EMERGENCY OR NIGHT LIGHT CIRCUIT. LETTER DENOTES TYPE.                                                                                       |
|  | WALL OR COLUMN MOUNTED LIGHTING FIXTURES. LETTER DENOTES TYPE                                                                                                                                  |
|  | WALL OR COLUMN MOUNTED LIGHTING FIXTURES ON AN EMERGENCY OR NIGHT LIGHT CIRCUIT. LETTER DENOTES TYPE                                                                                           |
|  | SURFACE MOUNTED STRIP FLUORESCENT LIGHTING FIXTURE.                                                                                                                                            |
| B-1-2                                                                               | LIGHTING CIRCUITING NOTE. B-PANELBOARD I.D., 1-BRANCH CIRCUIT, 2-LOCAL (SWITCH) CIRCUIT.                                                                                                       |
| SP                                                                                  | SWITCH. SINGLE-POLE, SINGLE-THROW                                                                                                                                                              |
| RC                                                                                  | ROOM CONTROLLER FOR LIGHTING CONTROLS                                                                                                                                                          |
| ⊙                                                                                   | CEILING MOUNTED OCCUPANCY SENSOR                                                                                                                                                               |
| ⤴                                                                                   | WALL MOUNTED OCCUPANCY SENSOR                                                                                                                                                                  |
| typ B-1-2                                                                           | TYPICAL SWITCH NOTES. CIRCUITING: B-PANELBOARD I.D., 1-BRANCH CIRCUIT, 2-LOCAL (SWITCH) CIRCUIT. XX-SUBSCRIPTS: D-DIMMING, S-SIMULOT LIGHT, 3-FOUR WAY, OS-OCCUPANCY SENSOR, VS-VACANCY SENSOR |

| POWER LAYOUT                                                                          |                                                                                                                      |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|    | DISCONNECT SWITCH (DS)                                                                                               |
|    | COMBINATION STARTER (CS)                                                                                             |
|    | MAGNETIC STARTER (MS)                                                                                                |
|    | MANUAL STARTER (MS)                                                                                                  |
|    | POWER PANEL -- EXISTING                                                                                              |
|    | POWER PANEL -- NEW                                                                                                   |
|    | POWER TRANSFORMER                                                                                                    |
|    | ELECTRIC HEATING EQUIPMENT                                                                                           |
|    | EQUIPMENT SUPPLIED BY OTHERS REQUIRING ELECTRICAL POWER CONNECTION<br>REFER TO EQUIPMENT SCHEDULE                    |
|    | EQUIPMENT SUPPLIED BY OWNER REQUIRING ELECTRICAL POWER CONNECTION<br>REFER TO OWNER EQUIPMENT SCHEDULE               |
|    | MECHANICAL EQUIPMENT/MOTOR<br>REQUIRING ELECTRICAL POWER                                                             |
|    | ALL MODES OF OPERATION OF EQUIPMENT SO NOTED TO BE SHUT DOWN BY THE ALARM CONDITION OF THE FIRE ALARM CONTROL PANEL. |
|    | PUSH BUTTON                                                                                                          |
|    | PUSH BUTTON STATION                                                                                                  |
|    | THERMOSTAT                                                                                                           |
|    | TIME CLOCK                                                                                                           |
|    | JIFFY POLE                                                                                                           |
|    | 120V HARDWIRE CONNECTION                                                                                             |
|    | 208V, 1Ø HARDWIRE CONNECTION                                                                                         |
|    | 208V, 3Ø HARDWIRE CONNECTION                                                                                         |
|    | 600V, 3Ø HARDWIRE CONNECTION                                                                                         |
|  | JUNCTION BOX                                                                                                         |
|  | HAND DRYER                                                                                                           |
|  | FLOOR BOX                                                                                                            |

| EMERGENCY LIGHTING AND EXIT SIGNS                                                     |                                                                                  |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE                                       |
|  | RECESSED EMERGENCY LIGHTING FIXTURE                                              |
|  | EXIT/RUNNING MAN PICTOGRAM SIGN                                                  |
|  | BATTERY                                                                          |
|  | EMERGENCY LIGHTING FIXTURE AND BATTERY                                           |
|  | EMERGENCY LIGHTING FIXTURE, BATTERY, AND EXIT SIGN                               |
| DC-X                                                                                  | DC - DENOTES A SOURCE OF DC POWER<br>X - DC POWER SOURCE IDENTIFICATION          |
| X-2                                                                                   | DC POWER CIRCUITING NOTE. X - DC POWER SOURCE IDENTIFICATION, 2 - BRANCH CIRCUIT |

| LEGEND                                                                                                                                                                                                                                                                            |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| THIS LEGEND REPRESENTS THE SYMBOLS COMMONLY USED. NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS. SHOW A KEY TO BE USED ON THE DRAWING AND NOT APPEARING ON THE LEGEND, THE CONTRACTOR SHALL SUBMIT A QUESTION TO HAVE THE SYMBOL CLARIFIED IN AN ADDENDUM PRIOR TO SUBMITTING A BID. |                                                                                      |
| ABBREVIATIONS                                                                                                                                                                                                                                                                     |                                                                                      |
| 20A                                                                                                                                                                                                                                                                               | DENOTES 5-20R DEVICE                                                                 |
| AC                                                                                                                                                                                                                                                                                | ABOVE COUNTER                                                                        |
| ADO                                                                                                                                                                                                                                                                               | AUTOMATIC DOOR OPENER                                                                |
| AE                                                                                                                                                                                                                                                                                | APPROVED EQUAL                                                                       |
| AFF                                                                                                                                                                                                                                                                               | ABOVE FINISHED FLOOR                                                                 |
| AN                                                                                                                                                                                                                                                                                | FIRE ALARM ANNUNCIATOR                                                               |
| BED                                                                                                                                                                                                                                                                               | RECEPTACLE DEDICATED FOR PATIENT BED                                                 |
| BH                                                                                                                                                                                                                                                                                | BASEBOARD HEATER                                                                     |
| CB                                                                                                                                                                                                                                                                                | CIRCUIT BREAKER                                                                      |
| ER                                                                                                                                                                                                                                                                                | EXISTING TO BE RELOCATED                                                             |
| EX                                                                                                                                                                                                                                                                                | EXISTING TO REMAIN                                                                   |
| FH                                                                                                                                                                                                                                                                                | FORCED-AIR HEATER                                                                    |
| GFI                                                                                                                                                                                                                                                                               | EQUIPMENT SO NOTED TO BE SUPPLIED WITH A GROUND FAULT CIRCUIT INTERRUPTER            |
| HSKP                                                                                                                                                                                                                                                                              | HOUSEKEEPING                                                                         |
| JB                                                                                                                                                                                                                                                                                | JUNCTION BOX                                                                         |
| PD                                                                                                                                                                                                                                                                                | POWER DOOR                                                                           |
| R                                                                                                                                                                                                                                                                                 | RELAY WITH AUXILIARY CONTACTS                                                        |
| REL                                                                                                                                                                                                                                                                               | RELOCATED ITEM IN NEW LOCATION                                                       |
| REM                                                                                                                                                                                                                                                                               | EXISTING TO BE REMOVED IN IT'S ENTIRETY                                              |
| T                                                                                                                                                                                                                                                                                 | TRANSFORMER                                                                          |
| UH                                                                                                                                                                                                                                                                                | UNIT HEATER                                                                          |
| UNO                                                                                                                                                                                                                                                                               | UNLESS NOTED OTHERWISE                                                               |
| W                                                                                                                                                                                                                                                                                 | WALL MOUNT - VERIFY HEIGHT                                                           |
| WP                                                                                                                                                                                                                                                                                | EQUIPMENT SO NOTED TO BE SUPPLIED WITH THE MANUFACTURER'S WEATHER-PROOFING OPTION(S) |
| ③                                                                                                                                                                                                                                                                                 | KEYNOTE - SEE KEYNOTE No. 3 ON DRAWINGS                                              |
| ③                                                                                                                                                                                                                                                                                 | KEYNOTE - SEE KEYNOTE No. 3 ON DRAWINGS                                              |

| WIRING DEVICES                                                                        |                                                                                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|    | SPECIAL RECEPTACLE. REFER TO NOTES OR DESCRIPTION FOR TYPE                                                                            |
|    | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP SIMPLEX UNO.                                                              |
|    | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX UNO.                                                               |
|   | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX UNO.                                                               |
|  | 125/250 VOLT, 3-POLE, 4-WIRE, STRAIGHT BLADE RECEPTACLE, AMPERAGE AS NOTED                                                            |
|  | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX UNO ON EMERGENCY OR UPS POWER                                      |
|  | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE HALF-SWITCHED RECEPTACLE. 15 AMP DUPLEX CONTROLLED VIA LOCAL SWITCH                          |
|  | VERTICAL LINE THROUGH ANY RECEPTACLE SYMBOL INDICATES A NON-STANDARD MOUNTING HEIGHT THAT MUST BE FIELD DETERMINED.                   |
|  | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX FOR SYSTEMS FURNITURE                                              |
|  | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX FOR SYSTEMS FURNITURE CONTROLLED BY OCCUPANCY SENSOR (AUTO ON/OFF) |
|  | 125 VOLT, 2-POLE, 3-WIRE, STRAIGHT BLADE RECEPTACLE. 15 AMP DUPLEX FOR SYSTEMS FURNITURE ON EMERGENCY OR UPS POWER                    |
|  | RECEPTACLES MOUNTED IN 2 CHANNEL RACEWAY                                                                                              |
|  | TYPICAL RECEPTACLE NOTES. CIRCUITING: B-PANELBOARD I.D., 1-BRANCH CIRCUIT. SUBSCRIPT: XX-CURRENT RATING (IF NOTED).                   |

**GENERAL NOTES**

1. THE ELECTRICAL DRAWINGS REPRESENT A PORTION OF THE CONTRACT. THE CONTRACTOR IS TO FAMILIARIZE THEMSELVES WITH ALL OF THE DRAWINGS AND THE PACKAGE AS SOME WORK MAY BE SHOWN ON OTHER DRAWINGS IN THE PACKAGE. CONTRACTOR IS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
2. THE DRAWINGS ARE NOT TO BE SCALED FOR INSTALLATION PURPOSES. ALL MEASUREMENTS ARE TO BE OBTAINED FROM ARCHITECTURAL PLANS, ELEVATIONS, SHOP DRAWINGS OR BE OBTAINED FROM FIELD MEASUREMENTS.
3. CONTRACTOR IS TO REVIEW ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR NECESSARY PARTS AND ACCESSORIES AND FIRESTOPPING AS REQUIRED TO CONFORM WITH ARCHITECTURAL FIRE RATINGS.
4. CONTRACTOR IS TO REMOVE ALL EXISTING DEAD AND ABANDONED CONDUIT AND WIRING BACK TO SOURCE, WHERE NOT POSSIBLE TO REMOVE EXISTING CONDUIT, CONDUIT IS TO BE CUT, ABOVE AND WRISTING WIRE IS TO BE REMOVED AND REPLACED WITH A PULL ROPE.
5. CONTRACTOR IS TO PROVIDE ELECTRONIC CAD "AS-BUILT" DRAWINGS IN DWG AND PDF FORMAT AT THE COMPLETION OF THE PROJECT. CAD FILES ARE TO BE AUTOCAD 2010.
6. UNLESS NOTED OTHERWISE ALL WIRING SHALL BE IN CONDUIT AND CONCEALED IN WALLS AND CEILING. WIRING IS PERMITTED TO BE OPEN IN CIRCUMSTANCES AND SHORT DROPS FROM JUNCTION BOXES TO LIGHT FIXTURES, REFER TO SPECIFICATIONS. CONDUIT RUNS SHALL BE PARALLEL TO WALLS. SHORT DROPS FROM JUNCTION BOXES MOUNTED IN THE CEILING SPACE. HORIZONTAL RUNS IN WALLS WILL ONLY BE ACCEPTED UNDER SPECIAL CIRCUMSTANCES (IE OFFSET TO THE STRUCTURE). ABOVE) AND WRISTING WIRE IS TO BE REMOVED AND REPLACED WITH A PULL ROPE.
7. ALL DATA/COMM WIRING FROM EACH OUTLET IS TO BE PROVIDED IN MIN. 1" (25mm) CONDUITS FROM OUTLET TO THE SOURCE (RACK AND/OR BAY BLOCK). CONTRACTOR CAN GROUP CABLEING AND INSTALL A LARGER RUN BACK TO THE SOURCE, WHERE CABLE IS PERMITTED TO RUN IN THE OPEN. CABLEING SHALL BE INSTALLED FROM THE OUTLET INTO AN ACCESSIBLE CEILING SPACE. PROVIDE BUSHINGS AT TOP OF WALL. PROVIDE 12" (300mm) STUBS INTO THE EXPOSED AREA. CABLE TRAY (AT CORRIDOR) CABLE IS NOT PERMITTED TO BE LAYING ON CEILING, COMM WIRING SHALL BE IN CONDUIT FOR ALL EXPOSED AREAS. PROVIDE COMM WIRING TRANSITIONING FROM CONCEALED ACCESSIBLE CEILING TO EXPOSED CEILING SHALL BE IN CONDUIT THROUGHOUT THE EXPOSED AREA. PROVIDE 12" (300mm) STUBS INTO THE EXPOSED AREA WITH BUSHING. NOT EXCEED 40% FILL.
8. UNLESS SPECIFICALLY NOTED AS "CABLING BY OTHERS", THE CONTRACTOR SHALL INCLUDE FOR ALL CABLEING TO DEVICES, OUTLETS, ETC AS SHOWN FOR A COMPLETE AND FUNCTIONING SYSTEM(S).
9. CONTRACTOR IS TO MAINTAIN POWER AND COMMUNICATION CIRCUITS IN AREAS OUTSIDE OF THE CONSTRUCTION AREA. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED, COORDINATE WITH OWNER.
10. EQUIPMENT BEING REMOVED AND NOT BEING REUSED REMAIN THE PROPERTY OF THE OWNER AND IS TO BE STORED ON SITE. ANY EQUIPMENT THE OWNER DEEMS NO INTEREST IN IS TO BE DISPOSED OF IN A LAWFUL AND SAFE MANNER BY THIS TRADE.
11. CONTRACTOR IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL INTERFERENCE AND INTERFERENCE DEVICES PRIOR TO THE INSTALLATION OF FIXTURES AND DEVICES IN WALLS AND CEILINGS.

| DRAWING LIST |                                                   |
|--------------|---------------------------------------------------|
| E0.00        | GENERAL NOTES, DRAWING LIST, LEGEND AND SCHEDULES |
| E1.00        | OVERALL SITE PLAN                                 |
| E2.00        | GROUND FLOOR – PROPOSED POWER LAYOUT              |
| E2.01        | GROUND FLOOR – PROPOSED LIGHTING LAYOUT           |
| E3.00        | MEZZANINE – PROPOSED LAYOUTS                      |
| E4.00        | GROUND FLOOR – PROPOSED FIRE ALARM LAYOUT         |
| E5.00        | SINGLE LINE DIAGRAM                               |
| E5.01        | PANEL SCHEDULES                                   |
| E5.02        | PANEL SCHEDULES                                   |
| E6.00        | DETAILS                                           |

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[illegible]

100% HONESTY  
 100% INTEGRITY  
 100% COMMITMENT  
 100% CUSTOMER SERVICE  
 100% QUALITY  
 100% SAFETY  
 100% RELIABILITY  
 100% EFFICIENCY  
 100% PROGRESS

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Seal

The seal is circular with a double-lined border. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal features a signature "K. Seguin" in blue ink, the name "K. SEGUIN" in black capital letters, and the date "Aug 28/26" in blue ink.

**Project**  
**LIBURDI AUTOMATION INC.**  
**PROPOSED MANUFACTURING**  
**ADDITION**  
  
45 Innovation Dr, Hamilton, ON L9H 7L8

|                                                                                                         |                           |                           |                               |
|---------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|-------------------------------|
| <b>Title</b><br><b>ELECTRICAL</b><br><b>GENERAL NOTES, DRAWING LIST,</b><br><b>LEGEND AND SCHEDULES</b> |                           |                           |                               |
| <b>Drawn By:</b><br>JD                                                                                  | <b>Designed By:</b><br>JD | <b>Approved By:</b><br>KS | <b>Date:</b><br>December 2025 |
| <b>Project No.</b><br>25-124                                                                            |                           | <b>Scale</b><br>NTS       |                               |
| <b>Drawing No.</b><br>E0.00                                                                             |                           | <b>Sheet</b><br>1 of 10   | <b>Revision</b><br>0          |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                                                                                                                                                           |                                  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| 1.1. | THIS SPECIFICATION SHALL APPLY TO AND GOVERN ALL WORK OF DIVISION 16. THE ELECTRICAL CONTRACTOR SHALL BE A SUBCONTRACTOR TO THE GENERAL CONTRACTOR AND HIS BID SHALL BE TENDERED DIRECTLY TO THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SUPPLY, INSTALL, WIRE AND CONNECT ALL EQUIPMENT, ACCESSORIES, DEVICES ETC SHOWN UNLESS SPECIFICALLY NOTED OTHERWISE. SHOULD THE CONTRACTOR BE UNSURE, THEY ARE TO SUBMIT A QUESTION 3 WORKING DAYS PRIOR TO TENDER CLOSE TO HAVE AN ADDENDUM ISSUED TO CLARIFY THE DEVICE, EQUIPMENT OR WORK SCOPE IN QUESTION. | 1.14.12.6. EMERGENCY BATTERY UNITS AND FIXTURES<br>1.14.12.7. ELECTRICAL HEATERS<br>1.14.12.8. SECURITY SYSTEM<br>1.14.12.9. MASTER CLOCK AND PROGRAM<br>1.14.12.10.INTERCOM SYSTEM<br>1.14.12.11.PUBLIC ADDRESS SYSTEM<br>1.14.12.12.MILLWORK<br>1.14.12.13.DEVICES | 1.25.3. INSTALL CABLES, CONDUITS AND FITTINGS TO BE EMBEDDED OR PLASTERED OVER, NEATLY AND CLOSE TO BUILDING STRUCTURE SO FURRING CAN BE KEPT TO MINIMUM. | 2.7. CONDUITS<br>2.7.1. RIGID, GALVANIZED STEEL THREADED CONDUIT TO C.S.A. C22.2, NO. 45, SIZE AS INDICATED.<br>2.7.2. ELECTRICAL METALLIC TUBING (EMT) WITH COUPLINGS AND EXPANDED ENDS AS REQUIRED, TO C.S.A. C22.2, NO. 83, SIZE AS INDICATED.<br>2.7.3. RIGID PVC (UNPLASTICIZED) CONDUIT FOR EXPOSED, ABOVE GROUND CONDUIT TO C.S.A. C22.2, NO. 211.2, SIZE AS INDICATED. FLEXIBLE PVC IS NO NOT PERMITTED.<br>2.7.4. FLEXIBLE METAL CONDUIT AND LIQUID-TIGHT FLEXIBLE METAL CONDUIT TO C.S.A. C22.2, NO. 56.<br>2.7.5. EMT CONDUIT FITTINGS, IE. CONNECTORS, COUPLINGS, TO C.S.A. C22.2, NO. 18, ZINC-PLATED STEEL/MALLEABLE IRON CONSTRUCTION. ALL CONNECTIONS AND COUPLINGS TO BE SET SCREW TYPE, IE. CONCRETE TIGHT.<br>2.7.6. CONDUIT SIZES SHALL BE A MINIMUM OF 3/4" AND CONFORM TO ELECTRICAL SAFETY CODE. WHERE SIZES ARE INDICATED AND THEY EXCEED CODE, THEY SHALL NOT BE REDUCED.<br>2.7.7. USE RIGID, GALVANIZED STEEL THREADED CONDUIT WHERE CONDUIT IS SUBJECT TO MECHANICAL INJURY.<br>2.7.8. RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.<br>2.7.9. USE EMT FOR ALL WIRING FROM OUTLET BOX TO SOURCE.<br>2.7.10. INSTALL NYLON FISH WIRE IN EMPTY CONDUITS AND TERMINATE UNDER SCREW LEAVING 12" SLACK. TAG FISH WIRE IDENTIFYING SYSTEM.<br>2.7.11. DO NOT LOCATE CONDUITS LESS THAN 3" (75 MM) PARALLEL TO STEAM OR HOT WATER LATERE WITH A MINIMUM OF 1" (25 MM) AT CROSS-OVERS.<br>2.7.12. IN-SLAB CONDUIT: LOCATE TO SUIT REINFORCING STEEL. INSTALL IN CENTRE 1/2 OF SLAB.<br>2.7.13. PROVIDE AND INSTALL 4-38mm (4-1-1/2") SPARE CONDUITS UP TO CEILING SPACE FROM EACH FLUSH MOUNTED ELECTRICAL PANEL. TERMINATE IN 300mm x 300mm (12"x12") JUNCTION BOXES IN ACCESSIBLE CEILING SPACE. | 2.8. JUNCTION AND PULL BOXES<br>2.8.1. WELDED STEEL CONSTRUCTION WIRE SCREW-ON FLAT COVERS FOR SURFACE MOUNTING.<br>2.8.2. COVERS WITH 1" (25 MM) MINIMUM EXTENSION ALL AROUND, FOR FLUSH-MOUNTED PULL AND JUNCTION BOXES.<br>2.8.3. INSTALL PULL BOXES IN CONDUIT RUNS SO AS NOT TO EXCEED 30 M OF CONDUIT RUN OR THE EQUIVALENT OF TWO (2) 90° BENDS BETWEEN PULL BOXES.<br>2.9. OUTLET AND CONDUIT BOXES:<br>2.9.1. ALL LIGHTING FIXTURES, RECEPTACLES AND OTHER WRING DEVICES FOR AN OUTLET SYSTEM SHOWN SHALL BE PROVIDED WITH AN OUTLET BOX.<br>2.9.2. 4" (102 MM) OCTAGON OR SQUARE OUTLET BOXES OR LARGER, COMPLETE WITH FITTINGS FOR LIGHTING FIXTURES AND AS REQUIRED FOR SPECIAL MOUNTING.<br>2.9.3. WALL OUTLET BOXES SHALL BE:<br>2.9.3.5. NO. 1104 SERIES, FLUSH MOUNTED IN DRYWALL PARTITIONS, U.N.O.<br>2.9.3.6. MBS SERIES MASONRY BOXES (GALVANIZED STEEL) FLUSH MOUNTED IN MASONRY WALLS (BLOCK WALLS).<br>2.9.3.7. GANG BOXES SHALL BE USED AT LOCATIONS WHERE DEVICES ARE GROUPED. PROVIDE BARRIERS AS REQUIRED.<br>2.9.3.8. BLANK COVER PLATES FOR BOXES WITHOUT WRING DEVICES. | 2.10. TRANSFORMERS<br>2.10.1. TRANSFORMERS SHALL BE COMPLETE WITH COPPER WINDINGS AND MEET THE REQUIREMENTS OF CSA 802.2-CURRENT EDITION FOR ENERGY EFFICIENCY.<br>2.10.2. TRANSFORMERS SHALL BE GENERAL PURPOSE, SUITABLE FOR SPRINKLER LOCATION WITH DELTA/WYE CONFIGURATION 600/120/208V, 3PH, 4W SECONDARY C/W THREE (3) COPPER WINDINGS.<br>2.10.3. MOUNT DRY TYPE TRANSFORMER 75KVA AND ABOVE ON WALL WITH ANGLE IRON FRAME SECURELY SUPPORTED FROM STRUCTURE AND VIBRO-ACOUSTIC ISOLATORS, UNO.<br>2.10.4. MOUNT DRY TYPE TRANSFORMER 75KVA AND ABOVE ON 4" CONCRETE PAD C/W VIBRO-ACOUSTIC ISOLATORS, UNO.<br>2.10.5. ACCEPTABLE MANUFACTURERS: HAMMOND POWER SOLUTIONS (HPS), MARCUS AND REX POWER MAGNETICS.<br>2.11. WIRING DEVICES:<br>2.11.1. SUPPLY AND INSTALL WRING DEVICES AS INDICATED COMPLETE WITH COVERS AND SWITCHES.<br>2.11.2. SWITCHES: MANUALLY OPERATED, GENERAL PURPOSE, AC, SPECIFICATION GRADE, TOTALLY ENCLOSED BODY, RATED 120V, 20 AMPERES MINIMUM OR AS REQUIRED BY CIRCUIT COMPLETE WITH WHITE DECORATIVE DESIGNER SERIES TOGGLE. (ROCKER)<br>2.11.3. RECEPTACLES: 3 WIRE, U-GROUND TYPE, PREMIUM SPECIFICATION OR EQUIVALENT, COMPLETE WITH SCREW-TYPE TERMINALS, DOUBLE WIRE CONTACTS, RIVETED GROUND CONTACTS, BREAK-OFF LINKS FOR SPLT RECEPTACLES AND WHITE MOLDED HOUSING, RECEPTACLES WITHIN 1.5m OF A SINK ARE TO BE PROTECTED BY GEL EXTERIOR RECEPTACLE ARE TO BE GFI AND INCLUDE "EXTRA DUTY IN USE" WEATHERPROOF COVER, HUBBELL CAT NO. MM420C.<br>2.11.4. OTHER RECEPTABLES WITH AMPACITY AND VOLTAGE AS INDICATED.<br>2.11.5. PRODUCTS: DEVICES TO BE HUBBELL MANUFACTURE, STYLE LINE SERIES;<br>2.11.5.1. LIGHT SWITCH (STYLE LINE DECORATOR SERIES):<br>2.11.5.1.1. 20A-120V SINGLE POLE WHITE - DS120W<br>2.11.5.1.2. 20A-120V 3-WAY WHITE - DS320W<br>2.11.5.1.3. 20A-120V 4-WAY WHITE - DS420W<br>2.11.5.1.4. 20A-347V SINGLE POLE WHITE - COOPER AH18221W<br>2.11.5.1.5. 20A-347V 3-WAY WHITE - COOPER AH18223W<br>2.11.5.2. RECEPTABLES (STYLE LINE DECORATOR SERIES):<br>2.11.5.2.1. 15A-125V DUPLEX WHITE - DR15WH<br>2.11.5.2.2. 20A-125V DUPLEX WHITE - DR20WH<br>2.11.5.2.3. 15A-125V GFCI DUPLEX - GF15WLA<br>2.11.5.2.4. 20A-125V GFCI DUPLEX - GF20WLA<br>2.11.5.3. WALL PLATES (STYLE LINE): STANDARD SIZE WHITE NYLON;<br>2.11.5.3.1. 1-GANG - NP26W<br>2.11.5.3.2. 2-GANG - NP262W<br>2.11.5.3.3. 3-GANG - NP263W<br>2.11.5.3.4. 4-GANG - NP264W, ETC.<br>2.11.6. ACCEPTABLE MANUFACTURER PASS & SEYMOUR AND COOPER | 2.12. ROOF TOP EQUIPMENT<br>2.12.1. COORDINATE THE SIZE OF BREAKERS AND FEEDERS WITH MECHANICAL DRAWINGS. CONTRACTOR SHALL CONFIRM THE FEEDER SIZES AND BREAKERS ON SHOP DRAWINGS PRIOR TO ROUGH-IN AND PURCHASE OF INSTALLATION FEEDERS EXCEEDING THE LENGTH OF THE ALLOWABLE AMPACITY SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BEGINNING ANY ROUGH-INS.<br>2.12.2. PROVIDE MAINTENANCE RECEPTABLES AS REQUIRED BY ESA. COORDINATE WITH MECHANICAL; SHOULD THE EQUIPMENT NOT INCLUDE MAINTENANCE RECEPTABLE AS AN OPTION, THE CONTRACTOR SHALL INCLUDE TO PROVIDE A 15/208V GFI RECEPTACLE AND A 1P-20A BREAKER FROM THE LOCAL PANEL FOR EACH GROUP OF UNITS. UNITS MORE THAN 50'-0" APART SHALL HAVE ITS OWN RECEPTACLE. THE RECEPTACLE SHALL BE MOUNTED TO A RIGIDLY INSTALLED AND SEALED WATER TIGHT. PROVIDE AN IN-USE COVER FOR THE RECEPTACLE.<br>3. LIGHTING<br>3.1. MANUFACTURER'S OPERATIONAL TESTS:<br>3.1.1. TEST FIXTURE FOR ACCEPTANCE OF LAMP MADE TO MAXIMUM TOLERANCE AS REQUIRED IN A.N.S.I. STANDARDS.<br>3.1.1.1. TEST FIXTURES WITH RATED LAMPS FOR STARTING AND OPERATION.<br>3.1.1.2. CHECK WIRING FOR AGREEMENT WITH DESIGN CIRCUIT.<br>3.1.1.3. TEST FOR SHORT CIRCUITS AND IMPROPER GROUNDS.<br>3.2. HANGERS AND FITTINGS<br>3.2.1. SUPPORT FIXTURES AS SHOWN ON THE DRAWINGS, LEVEL, PLUMB AND TRUE WITH THE STRUCTURE AND OTHER EQUIPMENT, AND IN A HORIZONTAL OR VERTICAL POSITION AS INTENDED.<br>3.2.2. WALL OR SIDE BRACKET MOUNTED FIXTURE HOUSINGS SHALL BE RIGIDLY INSTALLED AND ADJUSTED TO GIVE A NEAT FLUSH FIT TO THE SURFACE ON WHICH IT IS MOUNTED.<br>3.3. SUPPORTS:<br>3.3.1. SUPPORT FIXTURES BY HANGERS AND MOUNTING ARRANGEMENTS WHICH WILL NOT CAUSE THE FIXTURE FRAME, HOUSING, SIDES OR LENS FRAME TO BE DISTORTED; OR PREVENT COMPLETE ALIGNMENT OF SEVERAL FIXTURES IN A ROW. | 2.12.3. SHOP DRAWINGS SHALL INCLUDE ALL RELEVANT ACCESSORIES AND LAYOUTS WHERE REQUESTED.<br>2.12.4. SHOP DRAWINGS THAT ARE ILLEGIBLE AND OF POOR QUALITY WILL BE REJECTED.<br>2.12.5. SHOP DRAWINGS WILL BE REVIEWED AND RETURN MARKED "REVIEWED", "REVIEWED AS MODIFIED" OR "REVISE AND RESUBMIT". THE DRAWING REVIEW DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ITS ACCURACY OR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.<br>2.12.6. INSTALLATION OF ANY EQUIPMENT SHALL START UNTIL AFTER FINAL REVIEW OF SHOP DRAWINGS BY THE CONSULTANT HAS BEEN OBTAINED.<br>2.12.7. INCOMPLETE OR INCORRECT SHOP DRAWINGS THAT ARE REJECTED, WHICH ADVERSELY CAUSE OR RESULT IN ANY DELAY OF THE DELIVER SCHEDULE OF ANY EQUIPMENT SHALL BE THE CONTRACTORS RESPONSIBILITY.<br>2.12.8. IF INCORRECT SHOP DRAWINGS ARE SUBMITTED AND REJECTED ANY SUBSEQUENT DELIVERY DELAY WILL RESULT IN THE CONTRACTOR PROVIDING TEMPORARY FACILITIES UNTIL THE EQUIPMENT IS DELIVERED AND INSTALLED AT NO EXTRA COST TO THE OWNER.<br>2.12.9. PROVIDE SPACE FOR SHOP DRAWING REVIEW STAMPS FOR THE CONTRACTOR AND CONSULTANT. THIS SPACE SHALL BE CLEAR OF ALL TECHNICAL INFORMATION AND SHALL NOT BE ON THE BACK OF ANY SHEETS.<br>2.12.10. SUBMIT SHOP DRAWINGS IN DIGITAL (PDF) FORMAT.<br>2.12.11. ONE (1) ORIGINAL COPY IN DIGITAL FORMAT (PDF) WILL BE RETURNED. ALL COPIES REQUIRED BY TRADES, SUPPLIERS OR OTHER CONSULTANTS WILL BE PROVIDED AND/OR PRINTED BY THE CONTRACTOR.<br>2.12.12. FAILURE TO SUBMIT SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY THAT ALL INSTALLED EQUIPMENT MUST BE IN ACCORDANCE WITH THE INTEND OF DESIGN DOCUMENTS. ALL COSTS ASSOCIATED WITH ANY ISSUES ASSOCIATED WITH ALTERNATE OR NOT SUBMITTED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.<br>2.12.13. SHOP DRAWING SUBMITTAL SHALL BE (BUT NOT LIMITED TO) FOR ANY EQUIPMENT (LISTED):<br>2.14.12.1. HIGH VOLTAGE EQUIPMENT<br>2.14.12.2. SWITCHBOARD, METER CENTERS, PANEL BOARDS<br>2.14.12.3. FIRE ALARM SYSTEMS<br>2.14.12.4. LUMINAIRES INCLUDING LAMPS AND BALLASTS<br>2.14.12.5. LIGHTING CONTROLS | 1.15. DRAW BREAKDOWNS:<br>1.15.1. THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO SEPARATE CLASSIFICATION TO THE SATISFACTION OF THE CONSULTANT AND TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM IS TO BE BROKEN INTO MATERIAL AND LABOUR COSTS.<br>1.15.2. PROGRESS DRAWS, WHEN SUBMITTED, ARE TO BE ITEMIZED AGAINST EACH OF THE DRAW BREAKDOWNS AND SHALL BE IN TABLE FORM IDENTIFYING CONTRACT AMOUNT, AMOUNT OF THIS DRAW, TOTAL TO DATE, PERCENTAGE COMPLETE AND BALANCE.<br>1.15.3. BREAKDOWN SHALL FOLLOW, BUT NOT BE LIMITED TO;<br>1.15.3.1. PERMITS AND FEE<br>1.15.3.2. MOBILIZATION<br>1.15.3.3. DEMOLITION<br>1.15.3.4. DISTRIBUTION EQUIPMENT (IE. SWITCHBOARDS, PANELBOARDS, ETC.)<br>1.15.3.5. INCOMING FEEDERS AND CONDUITS<br>1.15.3.6. BRANCH WRING CONDUITS<br>1.15.3.7. BRANCH WRING<br>1.15.3.8. MECHANICAL EQUIPMENT WRING<br>1.15.3.9. FIRE ALARM DEVICES<br>1.15.3.10. FIRE ALARM WRING<br>1.15.3.11. FIRE ALARM VERIFICATION AND CERTIFICATION<br>1.15.3.12. EXIT AND EMERGENCY LIGHTING |
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responsible for all dimensions. Any  
errors or omissions shall be  
reported to Seguin Engineering Inc.

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610 Dia.  
560 Dia.

900 H

900

50

75 MIN. COVER

900

50

610 Dia.

FIN. GRADE

OPTIONAL ALUMINUM COLOR ACCENT BAND(S) OVER TEXTURED SURFACES

CAST-IN-PLACE ARCHITECTURAL CONCRETE BASE BY MEANS OF KELLAM 610R STYLE SINGLE-USE CONCRETE FORM

SINGLE USE CONCRETE FORM

GALVANIZED STEEL "J" BOLTS AS SUPPLIED BY MANUFACTURER

TOP OF CONVENTIONAL FIBER FORM AT 50 BELOW FIN. GRADE

50mm RIGID PVC CONDUIT SLEEVE -915 RADIUS

19mm RIGID CONDUIT SLEEVE FOR GROUND CONNECTION AS REQUIRED & SPECIFIED (REFER TO NOTE 5)

8-20M REINF. RODS & 10M TIES PER ONT. PROV. STD. DWG. OPSD-2200.01

POLYETHYLENE PIPE

ADAPT RIGID PVC TO POLYETHYLENE PIPE WITH ADAPTER COUPLING

DETAIL NOTES:

| POLE LENGTH | BASE BURIAL DEPTH 'D' | REINF. ROD LENGTH |
|-------------|-----------------------|-------------------|
| (m)         | (m)                   | (m)               |
| 3.0         | 1.50                  | H + 1.35          |
| 5.6         | 2.15                  | H + 2.00          |
| 7.0         | 2.15                  | H + 2.00          |
| 7.5         | 2.15                  | H + 2.00          |
| 8.7         | 2.45                  | H + 2.30          |
| 9.0         | 2.45                  | H + 2.30          |
| 10.5        | 2.60                  | H + 2.45          |

- A. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES
- B. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL
- C. CLASS OF CONCRETE SHALL BE 25mpa. CONCRETE SHALL BE VIBRATED.
- D. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOUNDATION UNLESS OTHERWISE SPECIFIED AS PER DRAWING
- E. PROVIDE A 19mm DIA. 3000mm STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR
- F. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
- G. SUBJECT TO SOIL CONDITIONS, REFER TO SOIL CONDITIONING DRAWING
- H. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "AIRFORM".

**OVERALL SITE PLAN** 1  
SCALE: 1" = 30'-0" E1.0

- A. CONTRACTOR SHALL OBTAIN LOCATES FOR ALL EXISTING SERVICES PRIOR TO COMMENCING WORK.
- B. IF EXISTING, EXISTING SITE LIGHTING SYSTEM IS TO BE REMOVED BACK TO THE NEAREST POINT OF REUSE, ALL CONDUIT AND WIRE IS TO BE DISCONNECTED AND REMOVED TO SOURCE. EXISTING POLE BASES ARE TO BE REMOVED WHERE NOT BEING REUSED.
- C. EXACT ROUTING OF DUCTS TO BE COORDINATED ON SITE TO AVOID INTERFERENCES WITH OTHER NEW AND EXISTING SERVICES. ADJUST DEPTHS AS REQUIRED TO MAINTAIN CLEARANCES.
- D. EXISTING PYLON SIGNS TO REMAIN. EXTEND AND REWORK EXISTING CONDUITS AS REQUIRED TO FACILITATE NEW BUILDING EXPANSIONS.

1. PROVIDE ArForm®s CAST-IN-PLACE ARCHITECTURAL CONCRETE BASES FOR LIGHTING POLES.
2. BASE SHALL BE KELLYMAY 610R STYLE, 36" HIGH AND PROFILE AS INDICATED.
3. USE REMOVED ArForm®s CONCRETE FORMS SUPPLIED BY:  
ArForm®s INTERNATIONAL INC.  
TEL 905-642-3225; FAX 905-642-3227  
EMAIL: ArForm®s@ArForm®sConcreteCanada.com
4. REINFORCE BASES WITH STEEL REINFORCING RODS. HORIZONTAL STEEL REINFORCING HAS TO BE NOTED ON DETAIL AND/OR INSTALLATION INSTRUCTIONS.
5. CAST AND CURE BASES IN ACCORDANCE WITH REQUIREMENTS OF CAST-IN-PLACE CONCRETE SPECIFICATIONS AND RECOMMENDATIONS.
6. COORDINATE WITH INSTALLATION OF CONDUIT AT CONCRETE BASES FOR LIGHTING POLES.
7. INSTALL SELF-LOOKING, VANDAL-RESISTANT, POLYURETHANE FINISH WITH COORDINATIVE BLUE COLOUR ACCENT BANDS IN HORIZONTAL REVEALS AROUND FINISHED ArForm®s BASES.
8. RE-USE REMOVED ArForm®s HALVES TO PROTECT BASES FROM DAMAGE DURING REMAINDER OF CONSTRUCTION.

**FULL CUTOFF PERFORMANCE – FULL CUTOFF PERFORMANCE**  
MEANS A LUMINAIRE DISTRIBUTION WHERE ZERO CANDELA  
INTENSITY OCCURS AT AN ANGLE AT OR ABOVE 90° ABOVE  
NADIR. ADDITIONALLY, THE CANDELA PER 1000 LAMP LUMENS  
DOES NOT NUMERICALLY EXCEED 10% (100 LUMENS) AT A  
VERTICAL ANGLE OF 80° ABOVE NADIR. THIS APPLIES TO ALL  
LATERAL ANGLES AROUND THE LUMINAIRE.

CUTOFF PERFORMANCE - CUTOFF PERFORMANCE MEANS A LUMINAIRE DISTRIBUTION WHERE THE CANDELA PER 1000 LAMP LUMENS DOES NOT NUMERICALLY EXCEED 2.5% (25 LUMENS) AT AN ANGLE ABOVE 90° ABOVE NADIR, AND 10% (100 LUMENS) AT A VERTICAL ANGLE 80° ABOVE NADIR. THIS APPLIES TO ALL LATERAL ANGLES AROUND THE LUMINAIRE.

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| 1          | ISSUED FOR PERMIT/TENDER | 2026.08.28  | KS        |
| 0          | ISSUED FOR PERMIT        | 2026.08.21  | KS        |
| <b>No.</b> | <b>Revision</b>          | <b>Date</b> | <b>By</b> |



**45 Innovation Dr, Hamilton, ON L9H 7L8**

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|-----------------------|--------------------|--------------------|------------------------|
| Drawn By:<br>JD       | Designed By:<br>JD | Approved By:<br>KS | Date:<br>December 2025 |
| Project No.<br>25-124 |                    | Scale<br>As Noted  |                        |
| Drawing No.<br>E1.00  |                    | Sheet<br>2 of 10   | Revision<br>0          |

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August 28, 2026 - 11:30am Plotted by: CAD12

1. COORDINATE WITH MECHANICAL CONTRACTOR AND REFER TO MECHANICAL DRAWINGS FOR EXACT MECHANICAL UNIT LOCATIONS.

- ① MECHANICAL CONTRACTOR TO PROVIDE NEW ROOFTOP HVAC UNIT. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL MAINTENANCE RECEPTACLE AND LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL THESE ITEMS. COORDINATE WITH MECHANICAL CONTRACTOR AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- ② MECHANICAL CONTRACTOR TO PROVIDE NEW EXHAUST FAN. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL MAINTENANCE RECEPTACLE AND LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL THESE ITEMS. COORDINATE WITH MECHANICAL CONTRACTOR AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- ③ MECHANICAL CONTRACTOR TO PROVIDE NEW ARI UNIT. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL MAINTENANCE RECEPTACLE AND LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL THESE ITEMS. COORDINATE WITH MECHANICAL CONTRACTOR AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.

- ① NEW OVERHEAD DOOR. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- ② NEW OVERHEAD CRANE. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- ③ ELECTRICAL CONTRACTOR TO PROVIDE ROUGH INS FOR CLIENT SECURITY EQUIPMENT. PROVIDE BACKBOXES, AND CONDUIT C/W PULL STRINGS FOR NEW CARD READER AND DOOR CONTACT.
- ④ EXISTING CRANE TO BE EXTENDED. ELECTRICAL CONTRACTOR TO COORDINATE TO RELOCATE AND EXTEND POWER AND CONTROLS WIRING AS NECESSARY.
- ⑤ MECHANICAL CONTRACTOR TO PROVIDE NEW LOW INTENSITY IR HEATER. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.

- 9 MECHANICAL CONTRACTOR TO PROVIDE NEW WELDING EXHAUST FAN. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE THE CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- 10 MECHANICAL CONTRACTOR TO PROVIDE NEW WELDING EXHAUST ARM. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE THE CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- 11 MECHANICAL CONTRACTOR TO PROVIDE NEW SUMP PUMP. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE THE CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL.
- 12 MECHANICAL CONTRACTOR TO PROVIDE NEW GAS FIRED HUMIDIFIER. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE

13 MECHANICAL CONTRACTOR TO PROVIDE NEW DOMESTIC WATER HEATER. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL

- 14 MECHANICAL CONTRACTOR TO PROVIDE NEW HOT WATER RECIRCULATION PUMP. ELECTRICAL CONTRACTOR TO COORDINATE TO PROVIDE POWER AND CONTROLS WIRING. ELECTRICAL CONTRACTOR TO INSTALL LOCAL DISCONNECT IF THEY ARE PROVIDED WITH THE UNIT, OTHERWISE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL. COORDINATE AND CONFIRM AT TIME OF SHOP DRAWING SUBMITTAL



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The technical drawing shows a cross-section of a building facade. It includes a sloped roof section with a hatched pattern, a vertical wall section with a hatched pattern, and a horizontal section with a hatched pattern. The drawing is labeled with '1000 mm' and '1000 mm' dimensions. Below the drawing is a stylized 'N' logo, which is a blue 'N' inside a green circle with a hatched pattern.

|            |                          |             |           |
|------------|--------------------------|-------------|-----------|
|            |                          |             |           |
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| 1          | ISSUED FOR PERMIT/TENDER | 2026.08.28  | KS        |
| 0          | ISSUED FOR PERMIT        | 2026.08.21  | KS        |
| <b>No.</b> | <b>Revision</b>          | <b>Date</b> | <b>By</b> |



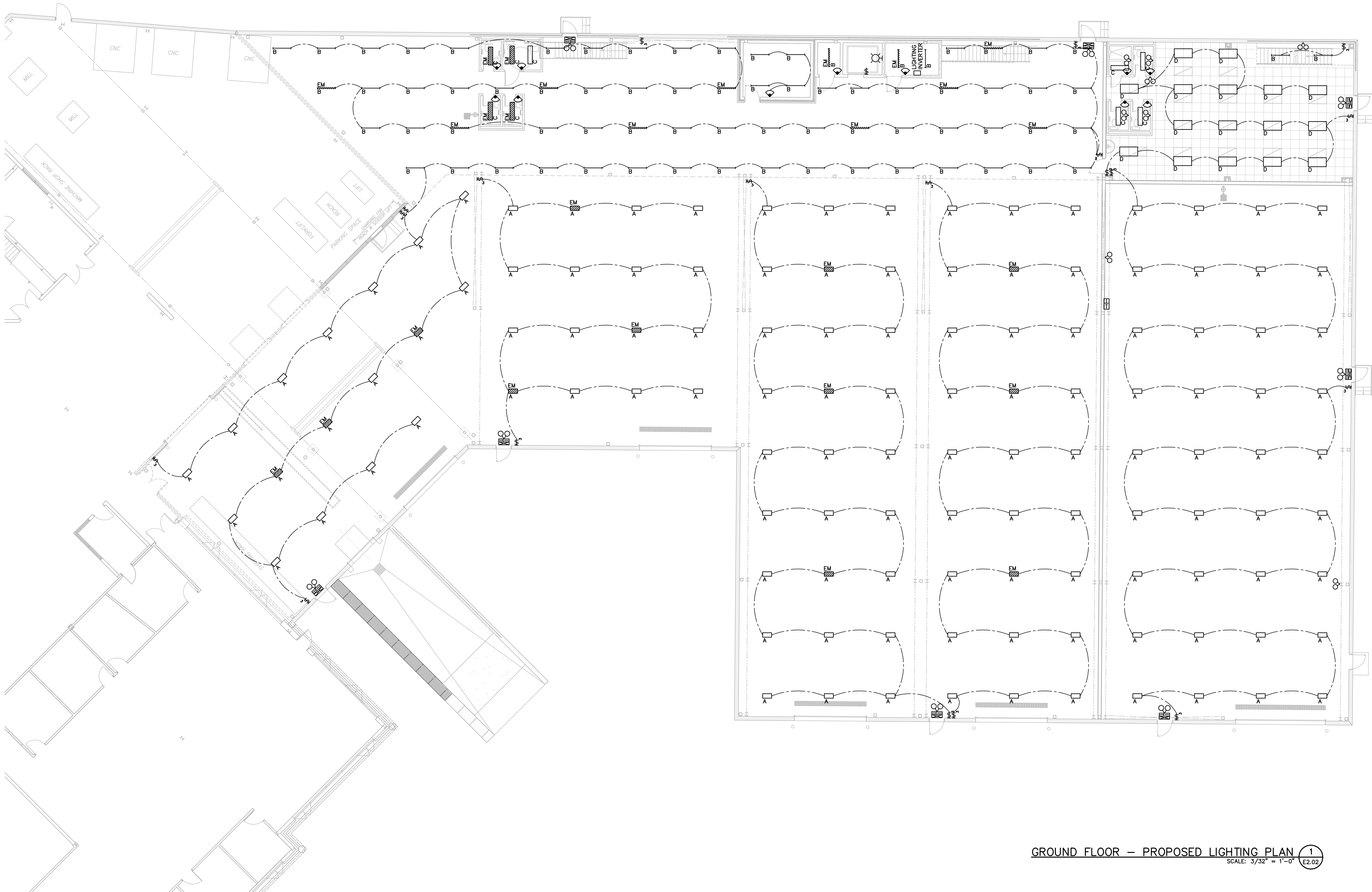
**LIBURDI AUTOMATION INC.**  
**PROPOSED MANUFACTURING**  
**ADDITION**

## GROUND FLOOR PROPOSED POWER LAYOUT

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| Drawn By:<br>JD       | Designed By:<br>JD | Approved By:<br>KS | Date:<br>December 2025 |
| Project No.<br>25-124 |                    | Scale<br>As Noted  |                        |
| Drawing No.<br>E2.00  |                    | Sheet<br>3 of 10   | Revision<br>0          |

ORIGINAL SHEET - ARCH D

File: X:\Projects\2025\25-124 Liburdi 45 Innovation Addition Kalos\E\25-124 Elec.dwg  
August 28, 2026 - 11:30am Plotted by: CAD12



GENERAL NOTES:  
1. MARKED LIGHT FIXTURES ARE TO BE CONNECTED TO CENTRAL INVERTER SYSTEM FOR EMERGENCY LIGHTING COVERAGE.

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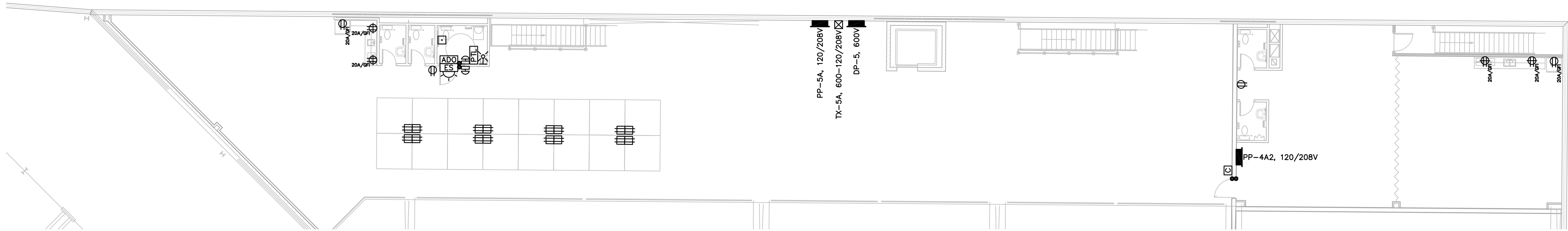
Seal

**Project**  
**LIBURDI AUTOMATION INC.**  
**PROPOSED MANUFACTURING ADDITION**  
45 Innovation Dr, Hamilton, ON L9H 7L8

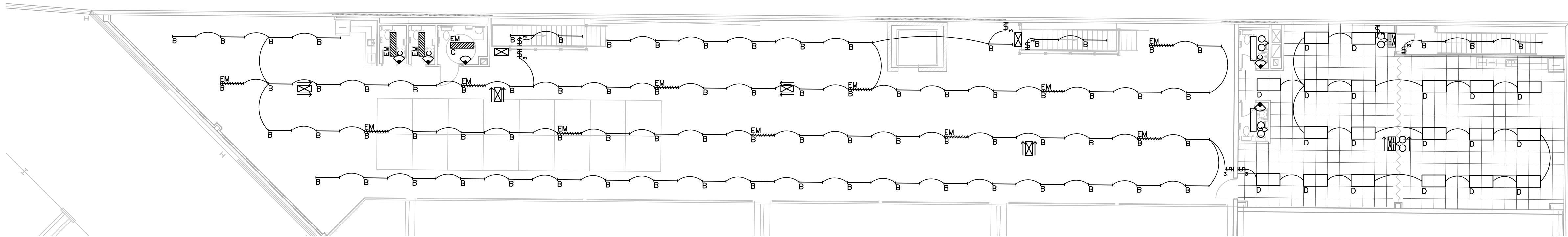
**Title**  
**GROUND FLOOR PROPOSED LIGHTING LAYOUT**

|                             |                         |                      |                        |
|-----------------------------|-------------------------|----------------------|------------------------|
| Drawn By:<br>JD             | Designed By:<br>JD      | Approved By:<br>KS   | Date:<br>December 2025 |
| Project No.<br>25-124       | Scale<br>As Noted       |                      |                        |
| Drawing No.<br><b>E2.02</b> | Sheet<br><b>4 of 10</b> | Revision<br><b>0</b> |                        |

GROUND FLOOR – PROPOSED LIGHTING PLAN 1  
SCALE: 3/32" = 1'-0" E2.02

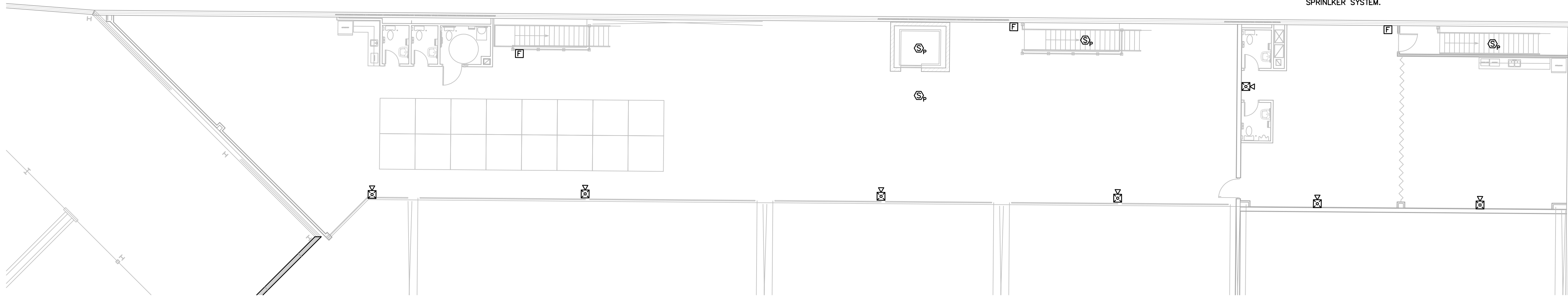


MEZZANINE – PROPOSED POWER PLAN 1  
SCALE: 3/32"=1'-0" E3.00



MEZZANINE – PROPOSED LIGHTING PLAN 2  
SCALE: 3/32"=1'-0" E3.00

GENERAL NOTES:  
1. NEW BUILDING ADDITION TO BE SPRINKLERED. REFER TO SPRINKLER DRAWING SET FOR DETAILS. ELECTRICAL CONTRACTOR TO INCLUDE TO SUPPLY AND INSTALL ALL REQUIRED MONITORING CONNECTIONS FOR SPRINKLER SYSTEM.



MEZZANINE – PROPOSED FIRE ALARM PLAN 3  
SCALE: 3/32"=1'-0" E3.00

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**Notes:**

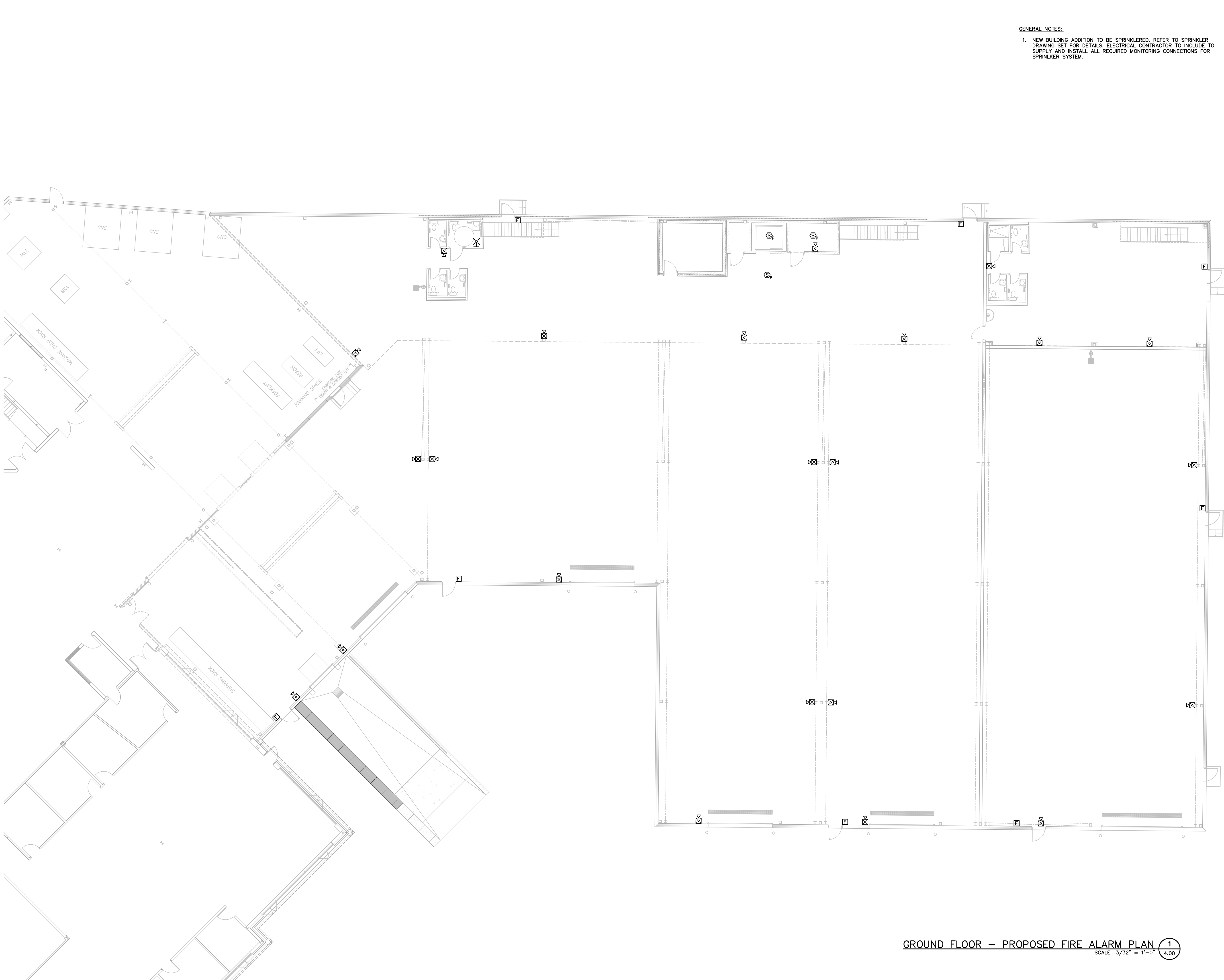
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**PROPOSED MANUFACTURING ADDITION**  
45 Innovation Dr, Hamilton, ON L9H 7L8

|                                                   |                         |                      |                        |
|---------------------------------------------------|-------------------------|----------------------|------------------------|
| <b>Title</b><br><b>MEZZANINE PROPOSED LAYOUTS</b> |                         |                      |                        |
| Drawn By:<br>JD                                   | Designed By:<br>JD      | Approved By:<br>KS   | Date:<br>December 2025 |
| Project No.<br>25-124                             | Scale<br>As Noted       |                      |                        |
| Drawing No.<br><b>E3.00</b>                       | Sheet<br><b>5 of 10</b> | Revision<br><b>0</b> |                        |



GENERAL NOTES:

1. NEW BUILDING ADDITION TO BE SPRINKLERED. REFER TO SPRINKLER DRAWING SET FOR DETAILS. ELECTRICAL CONTRACTOR TO INCLUDE TO SUPPLY AND INSTALL ALL REQUIRED MONITORING CONNECTIONS FOR SPRINKLER SYSTEM.

GROUND FLOOR — PROPOSED FIRE ALARM PLAN

SCALE: 3/32" = 1'-0"

1  
4.00

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| 0   | ISSUED FOR PERMIT        | 2026.08.21 KS |
| No. | Revision                 | Date By       |

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**Project**

**LIBURDI AUTOMATION INC.**

**PROPOSED MANUFACTURING ADDITION**

45 Innovation Dr, Hamilton, ON L9H 7L8

**Title**

**GROUND FLOOR  
PROPOSED FIRE ALARM  
LAYOUT**

|                             |                         |                      |                        |
|-----------------------------|-------------------------|----------------------|------------------------|
| Drawn By:<br>JD             | Designed By:<br>JD      | Approved By:<br>KS   | Date:<br>December 2025 |
| Project No.<br>25-124       | Scale<br>As Noted       |                      |                        |
| Drawing No.<br><b>E4.00</b> | Sheet<br><b>6 of 10</b> | Revision<br><b>0</b> |                        |

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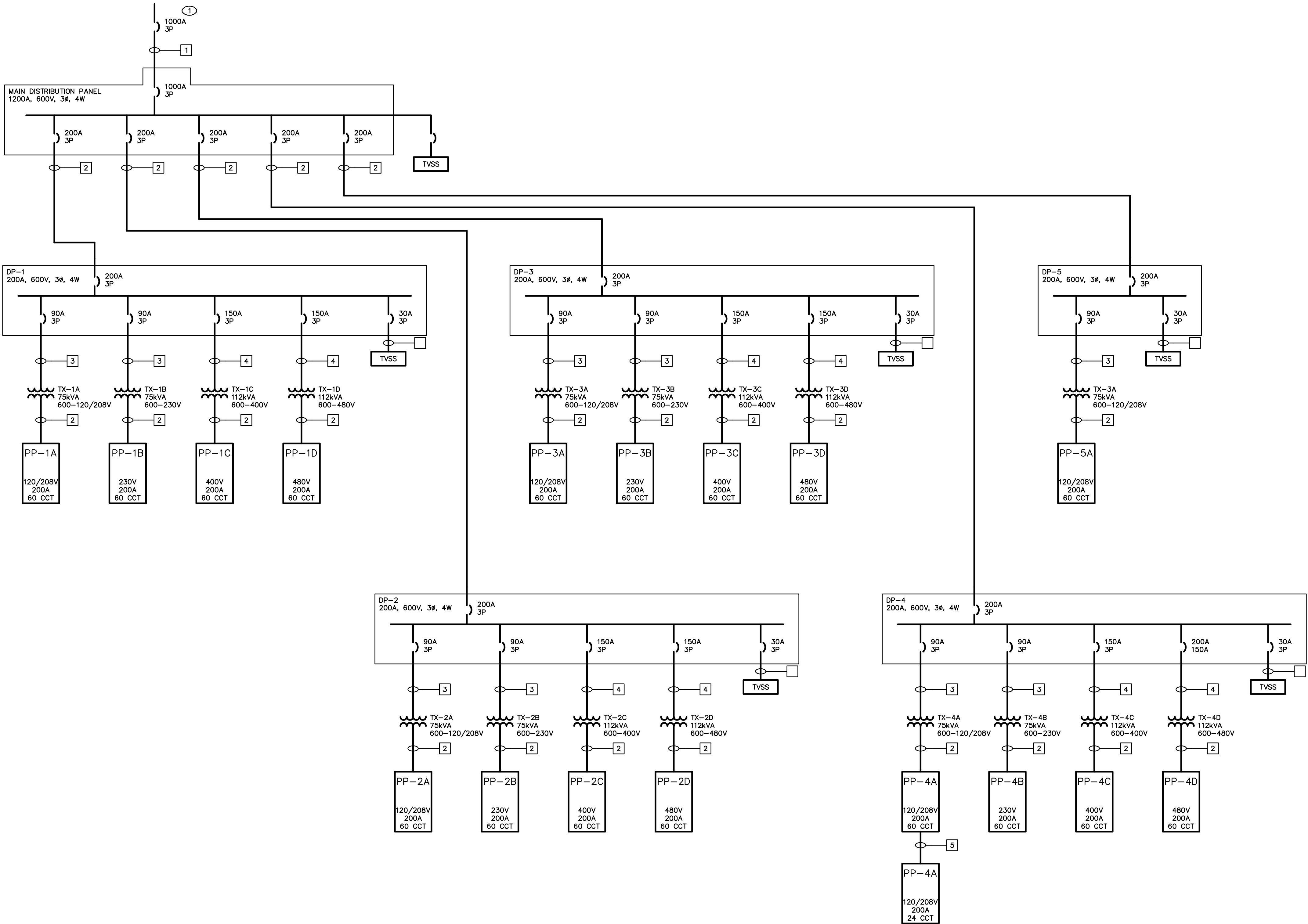


**LIBURDI AUTOMATION INC.**  
**PROPOSED MANUFACTURING**  
**ADDITION**

### SINGLE LINE DIAGRAM

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| Drawn By:<br>JD       | Designed By:<br>JD | Approved By:<br>KS | Date:<br>December 2025 |
| Project No.<br>25-124 |                    | Scale<br>NTS       |                        |
| Drawing No.<br>E5.00  |                    | Sheet<br>7 of 10   | Revision<br>0          |

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August 28, 2026 - 11:30am Plotted by: CAD12



| WIRE AND CONDUIT SCHEDULE |                                                               |        |
|---------------------------|---------------------------------------------------------------|--------|
| TYPE                      | DESCRIPTION                                                   | RATING |
| 1                         | (3) PARALLEL RUNS OF 4C 400MCM CU + GND IN 4-1/2" EMT CONDUIT | 1005A  |
| 2                         | 4C #3/0 CU + GND IN 2-1/2" EMT CONDUIT                        | 200A   |
| 3                         | 4C #5 CU + GND IN 1-1/2" EMT CONDUIT                          | 100A   |
| 4                         | 4C #1/0 CU + GND IN 2-1/2" EMT CONDUIT                        | 150A   |
| 5                         | 4C #6 CU + GND IN 1-1/2" EMT CONDUIT                          | 65A    |

| 600 VOLTS, 3 PH                                                                       |             |         | 1000 AMP MAIN BREAKER |      |  |
|---------------------------------------------------------------------------------------|-------------|---------|-----------------------|------|--|
| LOAD                                                                                  | DESCRIPTION | CCT     | DESCRIPTION           | LOAD |  |
|                                                                                       | DP-1        | 1 200A  | 2                     |      |  |
|                                                                                       |             | 3       | 4                     |      |  |
|                                                                                       |             | 5       | 6                     |      |  |
|                                                                                       | DP-3        | 7 200A  | 8                     |      |  |
|                                                                                       |             | 9       | 10                    |      |  |
|                                                                                       |             | 11      | 12                    |      |  |
|                                                                                       | DP-5        | 13 200A | 14                    |      |  |
|                                                                                       |             | 15      | 16                    |      |  |
|                                                                                       |             | 17      | 18                    |      |  |
|                                                                                       | -           | 19 15A  | 20                    |      |  |
|                                                                                       | -           | 21 15A  | 22                    |      |  |
|                                                                                       | -           | 23 15A  | 24                    |      |  |
|                                                                                       | -           | 25 15A  | 26                    |      |  |
|                                                                                       | -           | 27 15A  | 28                    |      |  |
|                                                                                       | -           | 29 15A  | 30                    |      |  |
|                                                                                       | -           | 31 15A  | 32                    |      |  |
|                                                                                       | -           | 33 15A  | 34                    |      |  |
|                                                                                       | -           | 35 15A  | 36                    |      |  |
|                                                                                       | -           | 37 15A  | 38                    |      |  |
|                                                                                       | -           | 39 15A  | 40                    |      |  |
|                                                                                       | -           | 41 15A  | 42                    |      |  |
|                                                                                       | -           | 43 15A  | 44                    |      |  |
|                                                                                       | -           | 45 15A  | 46                    |      |  |
|                                                                                       | -           | 47 15A  | 48                    |      |  |
|                                                                                       | -           | 49 15A  | 50                    |      |  |
|                                                                                       | -           | 51 15A  | 52                    |      |  |
|                                                                                       | -           | 53 15A  | 54                    |      |  |
|                                                                                       | -           | 55 15A  | 56                    |      |  |
|                                                                                       | -           | 57 15A  | 58                    |      |  |
|                                                                                       | -           | 59 15A  | 60                    |      |  |
|                                                                                       | -           | 61 15A  | 62                    |      |  |
|                                                                                       | -           | 63 15A  | 64                    |      |  |
|                                                                                       | -           | 65 15A  | 66                    |      |  |
|                                                                                       | -           | 67 15A  | 68                    |      |  |
|                                                                                       | -           | 69 15A  | 70                    |      |  |
|                                                                                       | -           | 71 15A  | 72                    |      |  |
|                                                                                       | -           | 73 15A  | 74                    |      |  |
|                                                                                       | -           | 75 15A  | 76                    |      |  |
|                                                                                       | -           | 77 15A  | 78                    |      |  |
|                                                                                       | -           | 79 15A  | 80                    |      |  |
|                                                                                       | -           | 81 15A  | 82                    | TVSS |  |
|                                                                                       | -           | 83 15A  | 84                    |      |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |         | 1200A MAIN BUS        |      |  |

PANEL DP – ADDITION

| 600 VOLTS, 3 PH                                                                       |             |        | 200 AMP MAIN BREAKER |             |  |
|---------------------------------------------------------------------------------------|-------------|--------|----------------------|-------------|--|
| LOAD                                                                                  | DESCRIPTION | CCT    | DESCRIPTION          | LOAD        |  |
|                                                                                       | TX-1A       | 1 90A  | 2                    | TX-1B       |  |
|                                                                                       |             | 3      | 4                    |             |  |
|                                                                                       |             | 5      | 6                    |             |  |
|                                                                                       | TX-1C       | 7 90A  | 8                    | TX-1D       |  |
|                                                                                       |             | 9      | 10                   |             |  |
|                                                                                       |             | 11     | 12                   |             |  |
|                                                                                       | HVAC-7      | 13 30A | 14                   | HVAC-11     |  |
|                                                                                       |             | 15     | 16                   |             |  |
|                                                                                       |             | 17     | 18                   |             |  |
|                                                                                       | HVAC-12     | 19 30A | 20                   | HVAC-13     |  |
|                                                                                       |             | 21     | 22                   |             |  |
|                                                                                       |             | 23     | 24                   |             |  |
|                                                                                       | HVAC-14     | 25 30A | 26                   | AMU-2       |  |
|                                                                                       |             | 27     | 28                   |             |  |
|                                                                                       |             | 29     | 30                   |             |  |
|                                                                                       | CRANE (5T)  | 31 30A | 32                   | CRANE (10T) |  |
|                                                                                       |             | 33     | 34                   |             |  |
|                                                                                       |             | 35     | 36                   |             |  |
|                                                                                       |             | 37 30A | 38                   |             |  |
|                                                                                       | OD-1        | 39     | 40                   | OD-2        |  |
|                                                                                       |             | 41     | 42                   |             |  |
|                                                                                       |             | 43 30A | 44                   | -           |  |
|                                                                                       | OD-3        | 45     | 46                   | -           |  |
|                                                                                       |             | 47     | 48                   | -           |  |
|                                                                                       | -           | 49 15A | 50                   | -           |  |
|                                                                                       | -           | 51 15A | 52                   | -           |  |
|                                                                                       | -           | 53 15A | 54                   | -           |  |
|                                                                                       | -           | 55 15A | 56                   | -           |  |
|                                                                                       | -           | 57 15A | 58                   | -           |  |
|                                                                                       | -           | 59 15A | 60                   | -           |  |
|                                                                                       | -           | 61 15A | 62                   | -           |  |
|                                                                                       | -           | 63 15A | 64                   | -           |  |
|                                                                                       | -           | 65 15A | 66                   | -           |  |
|                                                                                       | -           | 67 15A | 68                   | -           |  |
|                                                                                       | -           | 69 15A | 70                   | -           |  |
|                                                                                       | -           | 71 15A | 72                   | -           |  |
|                                                                                       | -           | 73 15A | 74                   | -           |  |
|                                                                                       | -           | 75 15A | 76                   | -           |  |
|                                                                                       | -           | 77 15A | 78                   | -           |  |
|                                                                                       | -           | 79 15A | 80                   | -           |  |
|                                                                                       | -           | 81 15A | 82                   | TVSS        |  |
|                                                                                       | -           | 83 15A | 84                   |             |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |        |                      |             |  |

PANEL DP – 1

| 600 VOLTS, 3 PH                                                                       |             |        | 200 AMP MAIN BREAKER |        |  |
|---------------------------------------------------------------------------------------|-------------|--------|----------------------|--------|--|
| LOAD                                                                                  | DESCRIPTION | CCT    | DESCRIPTION          | LOAD   |  |
|                                                                                       | TX-2A       | 1 90A  | 2                    | TX-2B  |  |
|                                                                                       |             | 3      | 4                    |        |  |
|                                                                                       |             | 5      | 6                    |        |  |
|                                                                                       | TX-2C       | 7 90A  | 8                    | TX-2D  |  |
|                                                                                       |             | 9      | 10                   |        |  |
|                                                                                       |             | 11     | 12                   |        |  |
|                                                                                       | HVAC-3      | 13 30A | 14                   | HVAC-6 |  |
|                                                                                       |             | 15     | 16                   |        |  |
|                                                                                       |             | 17     | 18                   |        |  |
|                                                                                       | CRANE (20T) | 19 30A | 20                   | OD-4   |  |
|                                                                                       |             | 21     | 22                   |        |  |
|                                                                                       | -           | 23     | 24                   |        |  |
|                                                                                       | -           | 25 15A | 26                   | -      |  |
|                                                                                       | -           | 27 15A | 28                   | -      |  |
|                                                                                       | -           | 29 15A | 30                   | -      |  |
|                                                                                       | -           | 31 15A | 32                   | -      |  |
|                                                                                       | -           | 33 15A | 34                   | -      |  |
|                                                                                       | -           | 35 15A | 36                   | -      |  |
|                                                                                       | -           | 37 15A | 38                   | -      |  |
|                                                                                       | -           | 39 15A | 40                   | -      |  |
|                                                                                       | -           | 41 15A | 42                   | -      |  |
|                                                                                       | -           | 43 15A | 44                   | -      |  |
|                                                                                       | -           | 45 15A | 46                   | -      |  |
|                                                                                       | -           | 47 15A | 48                   | -      |  |
|                                                                                       | -           | 49 15A | 50                   | -      |  |
|                                                                                       | -           | 51 15A | 52                   | -      |  |
|                                                                                       | -           | 53 15A | 54                   | -      |  |
|                                                                                       | -           | 55 15A | 56                   | -      |  |
|                                                                                       | -           | 57 15A | 58                   | -      |  |
|                                                                                       | -           | 59 15A | 60                   | -      |  |
|                                                                                       | -           | 61 15A | 62                   | -      |  |
|                                                                                       | -           | 63 15A | 64                   | -      |  |
|                                                                                       | -           | 65 15A | 66                   | -      |  |
|                                                                                       | -           | 67 15A | 68                   | -      |  |
|                                                                                       | -           | 69 15A | 70                   | -      |  |
|                                                                                       | -           | 71 15A | 72                   | -      |  |
|                                                                                       | -           | 73 15A | 74                   | -      |  |
|                                                                                       | -           | 75 15A | 76                   | -      |  |
|                                                                                       | -           | 77 15A | 78                   | -      |  |
|                                                                                       | -           | 79 15A | 80                   | -      |  |
|                                                                                       | -           | 81 15A | 82                   | TVSS   |  |
|                                                                                       | -           | 83 15A | 84                   |        |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |        |                      |        |  |

PANEL DP – 2

| 600 VOLTS, 3 PH                                                                       |             |        | 200 AMP MAIN BREAKER |         |  |
|---------------------------------------------------------------------------------------|-------------|--------|----------------------|---------|--|
| LOAD                                                                                  | DESCRIPTION | CCT    | DESCRIPTION          | LOAD    |  |
|                                                                                       | TX-3A       | 1 90A  | 2                    | TX-3B   |  |
|                                                                                       |             | 3      | 4                    |         |  |
|                                                                                       |             | 5      | 6                    |         |  |
|                                                                                       | TX-3C       | 7 90A  | 8                    | TX-3D   |  |
|                                                                                       |             | 9      | 10                   |         |  |
|                                                                                       |             | 11     | 12                   |         |  |
|                                                                                       | HVAC-2      | 13 30A | 14                   | HVAC-5  |  |
|                                                                                       |             | 15     | 16                   |         |  |
|                                                                                       |             | 17     | 18                   |         |  |
|                                                                                       | CRANE (20T) | 19 30A | 20                   | HVAC-10 |  |
|                                                                                       |             | 21     | 22                   |         |  |
|                                                                                       |             | 23     | 24                   |         |  |
|                                                                                       | OD-5        | 25 30A | 26                   | -       |  |
|                                                                                       |             | 27     | 28                   | -       |  |
|                                                                                       | -           | 29     | 30                   | -       |  |
|                                                                                       | -           | 31 15A | 32                   | -       |  |
|                                                                                       | -           | 33 15A | 34                   | -       |  |
|                                                                                       | -           | 35 15A | 36                   | -       |  |
|                                                                                       | -           | 37 15A | 38                   | -       |  |
|                                                                                       | -           | 39 15A | 40                   | -       |  |
|                                                                                       | -           | 41 15A | 42                   | -       |  |
|                                                                                       | -           | 43 15A | 44                   | -       |  |
|                                                                                       | -           | 45 15A | 46                   | -       |  |
|                                                                                       | -           | 47 15A | 48                   | -       |  |
|                                                                                       | -           | 49 15A | 50                   | -       |  |
|                                                                                       | -           | 51 15A | 52                   | -       |  |
|                                                                                       | -           | 53 15A | 54                   | -       |  |
|                                                                                       | -           | 55 15A | 56                   | -       |  |
|                                                                                       | -           | 57 15A | 58                   | -       |  |
|                                                                                       | -           | 59 15A | 60                   | -       |  |
|                                                                                       | -           | 61 15A | 62                   | -       |  |
|                                                                                       | -           | 63 15A | 64                   | -       |  |
|                                                                                       | -           | 65 15A | 66                   | -       |  |
|                                                                                       | -           | 67 15A | 68                   | -       |  |
|                                                                                       | -           | 69 15A | 70                   | -       |  |
|                                                                                       | -           | 71 15A | 72                   | -       |  |
|                                                                                       | -           | 73 15A | 74                   | -       |  |
|                                                                                       | -           | 75 15A | 76                   | -       |  |
|                                                                                       | -           | 77 15A | 78                   | -       |  |
|                                                                                       | -           | 79 15A | 80                   | -       |  |
|                                                                                       | -           | 81 15A | 82                   | TVSS    |  |
|                                                                                       | -           | 83 15A | 84                   |         |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |        |                      |         |  |

PANEL DP – 3

| 600 VOLTS, 3 PH                                                                       |             |        | 200 AMP MAIN BREAKER |             |  |
|---------------------------------------------------------------------------------------|-------------|--------|----------------------|-------------|--|
| LOAD                                                                                  | DESCRIPTION | CCT    | DESCRIPTION          | LOAD        |  |
|                                                                                       | TX-4A       | 1 90A  | 2                    | TX-4B       |  |
|                                                                                       |             | 3      | 4                    |             |  |
|                                                                                       |             | 5      | 6                    |             |  |
|                                                                                       | TX-4C       | 7 90A  | 8                    | TX-4D       |  |
|                                                                                       |             | 9      | 10                   |             |  |
|                                                                                       |             | 11     | 12                   |             |  |
|                                                                                       | HVAC-1      | 13 30A | 14                   | HVAC-4      |  |
|                                                                                       |             | 15     | 16                   |             |  |
|                                                                                       |             | 17     | 18                   |             |  |
|                                                                                       | HVAC-8      | 19 30A | 20                   | HVAC-9      |  |
|                                                                                       |             | 21     | 22                   |             |  |
|                                                                                       |             | 23     | 24                   |             |  |
|                                                                                       | WEF-1       | 25 15A | 26                   | WEF-2       |  |
|                                                                                       |             | 27     | 28                   |             |  |
|                                                                                       |             | 29     | 30                   |             |  |
|                                                                                       | AMU-1       | 31 30A | 32                   | CRANE (20T) |  |
|                                                                                       |             | 33     | 34                   |             |  |
|                                                                                       |             | 35 30A | 36                   | -           |  |
|                                                                                       | OD-6        | 37     | 38                   | -           |  |
|                                                                                       |             | 39     | 40                   | -           |  |
|                                                                                       | -           | 41 15A | 42                   | -           |  |
|                                                                                       | -           | 43 15A | 44                   | -           |  |
|                                                                                       | -           | 45 15A | 46                   | -           |  |
|                                                                                       | -           | 47 15A | 48                   | -           |  |
|                                                                                       | -           | 49 15A | 50                   | -           |  |
|                                                                                       | -           | 51 15A | 52                   | -           |  |
|                                                                                       | -           | 53 15A | 54                   | -           |  |
|                                                                                       | -           | 55 15A | 56                   | -           |  |
|                                                                                       | -           | 57 15A | 58                   | -           |  |
|                                                                                       | -           | 59 15A | 60                   | -           |  |
|                                                                                       | -           | 61 15A | 62                   | -           |  |
|                                                                                       | -           | 63 15A | 64                   | -           |  |
|                                                                                       | -           | 65 15A | 66                   | -           |  |
|                                                                                       | -           | 67 15A | 68                   | -           |  |
|                                                                                       | -           | 69 15A | 70                   | -           |  |
|                                                                                       | -           | 71 15A | 72                   | -           |  |
|                                                                                       | -           | 73 15A | 74                   | -           |  |
|                                                                                       | -           | 75 15A | 76                   | -           |  |
|                                                                                       | -           | 77 15A | 78                   | -           |  |
|                                                                                       | -           | 79 15A | 80                   | -           |  |
|                                                                                       | -           | 81 15A | 82                   | TVSS        |  |
|                                                                                       | -           | 83 15A | 84                   |             |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |        |                      |             |  |

PANEL DP – 4

| 600 VOLTS, 3 PH                                                                       |             |        | 200 AMP MAIN BREAKER |      |  |
|---------------------------------------------------------------------------------------|-------------|--------|----------------------|------|--|
| LOAD                                                                                  | DESCRIPTION | CCT    | DESCRIPTION          | LOAD |  |
|                                                                                       | TX-5A       | 1 90A  | 2                    |      |  |
|                                                                                       |             | 3      | 4                    |      |  |
|                                                                                       |             | 5      | 6                    |      |  |
|                                                                                       | -           | 7 15A  | 8                    | -    |  |
|                                                                                       | -           | 9 15A  | 10                   | -    |  |
|                                                                                       | -           | 11 15A | 12                   | -    |  |
|                                                                                       | -           | 13 15A | 14                   | -    |  |
|                                                                                       | -           | 15 15A | 16                   | -    |  |
|                                                                                       | -           | 17 15A | 18                   | -    |  |
|                                                                                       | -           | 19 15A | 20                   | -    |  |
|                                                                                       | -           | 21 15A | 22                   | -    |  |
|                                                                                       | -           | 23 15A | 24                   | -    |  |
|                                                                                       | -           | 25 15A | 26                   | -    |  |
|                                                                                       | -           | 27 15A | 28                   | -    |  |
|                                                                                       | -           | 29 15A | 30                   | -    |  |
|                                                                                       | -           | 31 15A | 32                   | -    |  |
|                                                                                       | -           | 33 15A | 34                   | -    |  |
|                                                                                       | -           | 35 15A | 36                   | -    |  |
|                                                                                       | -           | 37 15A | 38                   | -    |  |
|                                                                                       | -           | 39 15A | 40                   | -    |  |
|                                                                                       | -           | 41 15A | 42                   | -    |  |
|                                                                                       | -           | 43 15A | 44                   | -    |  |
|                                                                                       | -           | 45 15A | 46                   | -    |  |
|                                                                                       | -           | 47 15A | 48                   | -    |  |
|                                                                                       | -           | 49 15A | 50                   | -    |  |
|                                                                                       | -           | 51 15A | 52                   | -    |  |
|                                                                                       | -           | 53 15A | 54                   | -    |  |
|                                                                                       | -           | 55 15A | 56                   | -    |  |
|                                                                                       | -           | 57 15A | 58                   | -    |  |
|                                                                                       | -           | 59 15A | 60                   | -    |  |
|                                                                                       | -           | 61 15A | 62                   | -    |  |
|                                                                                       | -           | 63 15A | 64                   | -    |  |
|                                                                                       | -           | 65 15A | 66                   | -    |  |
|                                                                                       | -           | 67 15A | 68                   | -    |  |
|                                                                                       | -           | 69 15A | 70                   | -    |  |
|                                                                                       | -           | 71 15A | 72                   | -    |  |
|                                                                                       | -           | 73 15A | 74                   | -    |  |
|                                                                                       | -           | 75 15A | 76                   | -    |  |
|                                                                                       | -           | 77 15A | 78                   | -    |  |
|                                                                                       | -           | 79 15A | 80                   | -    |  |
|                                                                                       | -           | 81 15A | 82                   | TVSS |  |
|                                                                                       | -           | 83 15A | 84                   |      |  |
| <input type="checkbox"/> SURFACE<br><input type="checkbox"/> FLUSH<br>PANEL LOCATION: |             |        |                      |      |  |

PANEL DP – 5

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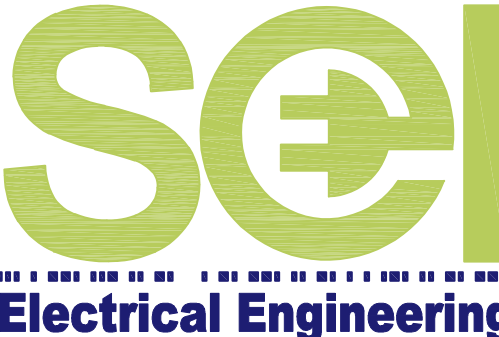
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Notes:

|     |                          |               |
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|     |                          |               |
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|     |                          |               |
| 1   | ISSUED FOR PERMIT/TENDER | 2026.08.28 KS |
| 0   | ISSUED FOR PERMIT        | 2026.08.21 KS |
| No. | Revision                 | Date By       |



12 Argyle Street N., Caledonia, ON, N3W 1B6  
www.sei-ee.com

Seal



Project

**LIBURDI AUTOMATION INC.**

**PROPOSED MANUFACTURING ADDITION**

45 Innovation Dr, Hamilton, ON L9H 7L8

Title

**PANEL SCHEDULES**

|                         |                    |                    |                        |
|-------------------------|--------------------|--------------------|------------------------|
| Drawn By:<br>JD         | Designed By:<br>JD | Approved By:<br>KS | Date:<br>December 2025 |
| Project No.<br>25-124</ |                    |                    |                        |

| 208 VOLTS, 3 PH                                                                                                  |             |     | 200 AMP MAIN BREAKER |             |      |
|------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------------|-------------|------|
| LOAD                                                                                                             | DESCRIPTION | CCT |                      | DESCRIPTION | LOAD |
|                                                                                                                  | IRH-1       | 1   | 1SA                  | IRH-2       | 2    |
|                                                                                                                  | EF-7A       | 3   | 1SA                  | EF-7B       | 4    |
|                                                                                                                  | EF-8        | 5   | 1SA                  | CP-1        | 6    |
|                                                                                                                  | -           | 7   | 1SA                  | -           | 8    |
|                                                                                                                  | -           | 9   | 1SA                  | -           | 10   |
|                                                                                                                  | -           | 11  | 1SA                  | -           | 12   |
|                                                                                                                  | -           | 13  | 1SA                  | -           | 14   |
|                                                                                                                  | -           | 15  | 1SA                  | -           | 16   |
|                                                                                                                  | -           | 17  | 1SA                  | -           | 18   |
|                                                                                                                  | -           | 19  | 1SA                  | -           | 20   |
|                                                                                                                  | -           | 21  | 1SA                  | -           | 22   |
|                                                                                                                  | -           | 23  | 1SA                  | -           | 24   |
|                                                                                                                  | -           | 25  | 1SA                  | -           | 26   |
|                                                                                                                  | -           | 27  | 1SA                  | -           | 28   |
|                                                                                                                  | -           | 29  | 1SA                  | -           | 30   |
|                                                                                                                  | -           | 31  | 1SA                  | -           | 32   |
|                                                                                                                  | -           | 33  | 1SA                  | -           | 34   |
|                                                                                                                  | -           | 35  | 1SA                  | -           | 36   |
|                                                                                                                  | -           | 37  | 1SA                  | -           | 38   |
|                                                                                                                  | -           | 39  | 1SA                  | -           | 40   |
|                                                                                                                  | -           | 41  | 1SA                  | -           | 42   |
|                                                                                                                  | -           | 43  | 1SA                  | -           | 44   |
|                                                                                                                  | -           | 45  | 1SA                  | -           | 46   |
|                                                                                                                  | -           | 47  | 1SA                  | -           | 48   |
|                                                                                                                  | -           | 49  | 1SA                  | -           | 50   |
|                                                                                                                  | -           | 51  | 1SA                  | -           | 52   |
|                                                                                                                  | -           | 53  | 1SA                  | -           | 54   |
|                                                                                                                  | -           | 55  | 1SA                  | -           | 56   |
|                                                                                                                  | -           | 57  | 1SA                  | -           | 58   |
|                                                                                                                  | -           | 59  | 1SA                  | -           | 60   |
|                                                                                                                  | -           | 61  | 1SA                  | -           | 62   |
|                                                                                                                  | -           | 63  | 1SA                  | -           | 64   |
|                                                                                                                  | -           | 65  | 1SA                  | -           | 66   |
|                                                                                                                  | -           | 67  | 1SA                  | -           | 68   |
|                                                                                                                  | -           | 69  | 1SA                  | -           | 70   |
|                                                                                                                  | -           | 71  | 1SA                  | -           | 72   |
|                                                                                                                  | -           | 73  | 1SA                  | -           | 74   |
|                                                                                                                  | -           | 75  | 1SA                  | -           | 76   |
|                                                                                                                  | -           | 77  | 1SA                  | -           | 78   |
|                                                                                                                  | -           | 79  | 1SA                  | -           | 80   |
|                                                                                                                  | -           | 81  | 1SA                  | -           | 82   |
|                                                                                                                  | -           | 83  | 1SA                  | -           | 84   |
| <div><input type="checkbox"/> SURFACE</div> <div><input type="checkbox"/> FLUSH</div> <div>PANEL LOCATION:</div> |             |     |                      |             |      |

PANEL PP – 1A

| 600 VOLTS, 3 PH                                                                                                  |             |     | 200 AMP MAIN BREAKER |             |      |
|------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------------|-------------|------|
| LOAD                                                                                                             | DESCRIPTION | CCT |                      | DESCRIPTION | LOAD |
|                                                                                                                  | EF-6A       | 1   | 1SA                  | IRH-3       | 2    |
|                                                                                                                  | SP-1        | 3   | 1SA                  | SP-2        | 4    |
|                                                                                                                  | EF-2        | 5   | 1SA                  | EF-9        | 6    |
|                                                                                                                  | EF-10       | 7   | 1SA                  | -           | 8    |
|                                                                                                                  | -           | 9   | 1SA                  | -           | 10   |
|                                                                                                                  | -           | 11  | 1SA                  | -           | 12   |
|                                                                                                                  | -           | 13  | 1SA                  | -           | 14   |
|                                                                                                                  | -           | 15  | 1SA                  | -           | 16   |
|                                                                                                                  | -           | 17  | 1SA                  | -           | 18   |
|                                                                                                                  | -           | 19  | 1SA                  | -           | 20   |
|                                                                                                                  | -           | 21  | 1SA                  | -           | 22   |
|                                                                                                                  | -           | 23  | 1SA                  | -           | 24   |
|                                                                                                                  | -           | 25  | 1SA                  | -           | 26   |
|                                                                                                                  | -           | 27  | 1SA                  | -           | 28   |
|                                                                                                                  | -           | 29  | 1SA                  | -           | 30   |
|                                                                                                                  | -           | 31  | 1SA                  | -           | 32   |
|                                                                                                                  | -           | 33  | 1SA                  | -           | 34   |
|                                                                                                                  | -           | 35  | 1SA                  | -           | 36   |
|                                                                                                                  | -           | 37  | 1SA                  | -           | 38   |
|                                                                                                                  | -           | 39  | 1SA                  | -           | 40   |
|                                                                                                                  | -           | 41  | 1SA                  | -           | 42   |
|                                                                                                                  | -           | 43  | 1SA                  | -           | 44   |
|                                                                                                                  | -           | 45  | 1SA                  | -           | 46   |
|                                                                                                                  | -           | 47  | 1SA                  | -           | 48   |
|                                                                                                                  | -           | 49  | 1SA                  | -           | 50   |
|                                                                                                                  | -           | 51  | 1SA                  | -           | 52   |
|                                                                                                                  | -           | 53  | 1SA                  | -           | 54   |
|                                                                                                                  | -           | 55  | 1SA                  | -           | 56   |
|                                                                                                                  | -           | 57  | 1SA                  | -           | 58   |
|                                                                                                                  | -           | 59  | 1SA                  | -           | 60   |
|                                                                                                                  | -           | 61  | 1SA                  | -           | 62   |
|                                                                                                                  | -           | 63  | 1SA                  | -           | 64   |
|                                                                                                                  | -           | 65  | 1SA                  | -           | 66   |
|                                                                                                                  | -           | 67  | 1SA                  | -           | 68   |
|                                                                                                                  | -           | 69  | 1SA                  | -           | 70   |
|                                                                                                                  | -           | 71  | 1SA                  | -           | 72   |
|                                                                                                                  | -           | 73  | 1SA                  | -           | 74   |
|                                                                                                                  | -           | 75  | 1SA                  | -           | 76   |
|                                                                                                                  | -           | 77  | 1SA                  | -           | 78   |
|                                                                                                                  | -           | 79  | 1SA                  | -           | 80   |
|                                                                                                                  | -           | 81  | 1SA                  | -           | 82   |
|                                                                                                                  | -           | 83  | 1SA                  | -           | 84   |
| <div><input type="checkbox"/> SURFACE</div> <div><input type="checkbox"/> FLUSH</div> <div>PANEL LOCATION:</div> |             |     |                      |             |      |

PANEL PP – 2A

| 600 VOLTS, 3 PH                                                                                                  |             |     | 200 AMP MAIN BREAKER |             |      |
|------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------------|-------------|------|
| LOAD                                                                                                             | DESCRIPTION | CCT |                      | DESCRIPTION | LOAD |
|                                                                                                                  | EF-5        | 1   | 1SA                  | IRH-4       | 2    |
|                                                                                                                  | HUM-1       | 3   | 1SA                  | -           | 4    |
|                                                                                                                  | -           | 5   | 1SA                  | -           | 6    |
|                                                                                                                  | -           | 7   | 1SA                  | -           | 8    |
|                                                                                                                  | -           | 9   | 1SA                  | -           | 10   |
|                                                                                                                  | -           | 11  | 1SA                  | -           | 12   |
|                                                                                                                  | -           | 13  | 1SA                  | -           | 14   |
|                                                                                                                  | -           | 15  | 1SA                  | -           | 16   |
|                                                                                                                  | -           | 17  | 1SA                  | -           | 18   |
|                                                                                                                  | -           | 19  | 1SA                  | -           | 20   |
|                                                                                                                  | -           | 21  | 1SA                  | -           | 22   |
|                                                                                                                  | -           | 23  | 1SA                  | -           | 24   |
|                                                                                                                  | -           | 25  | 1SA                  | -           | 26   |
|                                                                                                                  | -           | 27  | 1SA                  | -           | 28   |
|                                                                                                                  | -           | 29  | 1SA                  | -           | 30   |
|                                                                                                                  | -           | 31  | 1SA                  | -           | 32   |
|                                                                                                                  | -           | 33  | 1SA                  | -           | 34   |
|                                                                                                                  | -           | 35  | 1SA                  | -           | 36   |
|                                                                                                                  | -           | 37  | 1SA                  | -           | 38   |
|                                                                                                                  | -           | 39  | 1SA                  | -           | 40   |
|                                                                                                                  | -           | 41  | 1SA                  | -           | 42   |
|                                                                                                                  | -           | 43  | 1SA                  | -           | 44   |
|                                                                                                                  | -           | 45  | 1SA                  | -           | 46   |
|                                                                                                                  | -           | 47  | 1SA                  | -           | 48   |
|                                                                                                                  | -           | 49  | 1SA                  | -           | 50   |
|                                                                                                                  | -           | 51  | 1SA                  | -           | 52   |
|                                                                                                                  | -           | 53  | 1SA                  | -           | 54   |
|                                                                                                                  | -           | 55  | 1SA                  | -           | 56   |
|                                                                                                                  | -           | 57  | 1SA                  | -           | 58   |
|                                                                                                                  | -           | 59  | 1SA                  | -           | 60   |
|                                                                                                                  | -           | 61  | 1SA                  | -           | 62   |
|                                                                                                                  | -           | 63  | 1SA                  | -           | 64   |
|                                                                                                                  | -           | 65  | 1SA                  | -           | 66   |
|                                                                                                                  | -           | 67  | 1SA                  | -           | 68   |
|                                                                                                                  | -           | 69  | 1SA                  | -           | 70   |
|                                                                                                                  | -           | 71  | 1SA                  | -           | 72   |
|                                                                                                                  | -           | 73  | 1SA                  | -           | 74   |
|                                                                                                                  | -           | 75  | 1SA                  | -           | 76   |
|                                                                                                                  | -           | 77  | 1SA                  | -           | 78   |
|                                                                                                                  | -           | 79  | 1SA                  | -           | 80   |
|                                                                                                                  | -           | 81  | 1SA                  | -           | 82   |
|                                                                                                                  | -           | 83  | 1SA                  | -           | 84   |
| <div><input type="checkbox"/> SURFACE</div> <div><input type="checkbox"/> FLUSH</div> <div>PANEL LOCATION:</div> |             |     |                      |             |      |

PANEL PP – 3A

| 600 VOLTS, 3 PH                                                                                                  |             |     | 200 AMP MAIN BREAKER |             |      |
|------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------------|-------------|------|
| LOAD                                                                                                             | DESCRIPTION | CCT |                      | DESCRIPTION | LOAD |
|                                                                                                                  | PP-4A2      | 1   | 60A                  | EF-4A       | 2    |
|                                                                                                                  | -           | 3   | 1SA                  | EF-4B       | 4    |
|                                                                                                                  | -           | 5   | 1SA                  | IRH-5       | 6    |
|                                                                                                                  | WEA-1       | 7   | 1SA                  | WEA-2       | 8    |
|                                                                                                                  | WEA-3       | 9   | 1SA                  | WEA-4       | 10   |
|                                                                                                                  | WEA-5       | 11  | 1SA                  | WEA-6       | 12   |
|                                                                                                                  | CP-2        | 13  | 1SA                  | HUM-2       | 14   |
|                                                                                                                  | -           | 15  | 1SA                  | -           | 16   |
|                                                                                                                  | -           | 17  | 1SA                  | -           | 18   |
|                                                                                                                  | -           | 19  | 1SA                  | -           | 20   |
|                                                                                                                  | -           | 21  | 1SA                  | -           | 22   |
|                                                                                                                  | -           | 23  | 1SA                  | -           | 24   |
|                                                                                                                  | -           | 25  | 1SA                  | -           | 26   |
|                                                                                                                  | -           | 27  | 1SA                  | -           | 28   |
|                                                                                                                  | -           | 29  | 1SA                  | -           | 30   |
|                                                                                                                  | -           | 31  | 1SA                  | -           | 32   |
|                                                                                                                  | -           | 33  | 1SA                  | -           | 34   |
|                                                                                                                  | -           | 35  | 1SA                  | -           | 36   |
|                                                                                                                  | -           | 37  | 1SA                  | -           | 38   |
|                                                                                                                  | -           | 39  | 1SA                  | -           | 40   |
|                                                                                                                  | -           | 41  | 1SA                  | -           | 42   |
|                                                                                                                  | -           | 43  | 1SA                  | -           | 44   |
|                                                                                                                  | -           | 45  | 1SA                  | -           | 46   |
|                                                                                                                  | -           | 47  | 1SA                  | -           | 48   |
|                                                                                                                  | -           | 49  | 1SA                  | -           | 50   |
|                                                                                                                  | -           | 51  | 1SA                  | -           | 52   |
|                                                                                                                  | -           | 53  | 1SA                  | -           | 54   |
|                                                                                                                  | -           | 55  | 1SA                  | -           | 56   |
|                                                                                                                  | -           | 57  | 1SA                  | -           | 58   |
|                                                                                                                  | -           | 59  | 1SA                  | -           | 60   |
|                                                                                                                  | -           | 61  | 1SA                  | -           | 62   |
|                                                                                                                  | -           | 63  | 1SA                  | -           | 64   |
|                                                                                                                  | -           | 65  | 1SA                  | -           | 66   |
|                                                                                                                  | -           | 67  | 1SA                  | -           | 68   |
|                                                                                                                  | -           | 69  | 1SA                  | -           | 70   |
|                                                                                                                  | -           | 71  | 1SA                  | -           | 72   |
|                                                                                                                  | -           | 73  | 1SA                  | -           | 74   |
|                                                                                                                  | -           | 75  | 1SA                  | -           | 76   |
|                                                                                                                  | -           | 77  | 1SA                  | -           | 78   |
|                                                                                                                  | -           | 79  | 1SA                  | -           | 80   |
|                                                                                                                  | -           | 81  | 1SA                  | -           | 82   |
|                                                                                                                  | -           | 83  | 1SA                  | -           | 84   |
| <div><input type="checkbox"/> SURFACE</div> <div><input type="checkbox"/> FLUSH</div> <div>PANEL LOCATION:</div> |             |     |                      |             |      |

PANEL PP – 4A

| 600 VOLTS, 3 PH                                                                                                  |             |     | 200 AMP MAIN BREAKER |             |      |
|------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------------|-------------|------|
| LOAD                                                                                                             | DESCRIPTION | CCT |                      | DESCRIPTION | LOAD |
|                                                                                                                  | EF-3        | 1   | 1SA                  | EF-6B       | 2    |
|                                                                                                                  | EF-1        | 3   | 1SA                  | -           | 4    |
|                                                                                                                  | -           | 5   | 1SA                  | -           | 6    |
|                                                                                                                  | -           | 7   | 1SA                  | -           | 8    |
|                                                                                                                  | -           | 9   | 1SA                  | -           | 10   |
|                                                                                                                  | -           | 11  | 1SA                  | -           | 12   |
|                                                                                                                  | -           | 13  | 1SA                  | -           | 14   |
|                                                                                                                  | -           | 15  | 1SA                  | -           | 16   |
|                                                                                                                  | -           | 17  | 1SA                  | -           | 18   |
|                                                                                                                  | -           | 19  | 1SA                  | -           | 20   |
|                                                                                                                  | -           | 21  | 1SA                  | -           | 22   |
|                                                                                                                  | -           | 23  | 1SA                  | -           | 24   |
|                                                                                                                  | -           | 25  | 1SA                  | -           | 26   |
|                                                                                                                  | -           | 27  | 1SA                  | -           | 28   |
|                                                                                                                  | -           | 29  | 1SA                  | -           | 30   |
|                                                                                                                  | -           | 31  | 1SA                  | -           | 32   |
|                                                                                                                  | -           | 33  | 1SA                  | -           | 34   |
|                                                                                                                  | -           | 35  | 1SA                  | -           | 36   |
|                                                                                                                  | -           | 37  | 1SA                  | -           | 38   |
|                                                                                                                  | -           | 39  | 1SA                  | -           | 40   |
|                                                                                                                  | -           | 41  | 1SA                  | -           | 42   |
|                                                                                                                  | -           | 43  | 1SA                  | -           | 44   |
|                                                                                                                  | -           | 45  | 1SA                  | -           | 46   |
|                                                                                                                  | -           | 47  | 1SA                  | -           | 48   |
|                                                                                                                  | -           | 49  | 1SA                  | -           | 50   |
|                                                                                                                  | -           | 51  | 1SA                  | -           | 52   |
|                                                                                                                  | -           | 53  | 1SA                  | -           | 54   |
|                                                                                                                  | -           | 55  | 1SA                  | -           | 56   |
|                                                                                                                  | -           | 57  | 1SA                  | -           | 58   |
|                                                                                                                  | -           | 59  | 1SA                  | -           | 60   |
|                                                                                                                  | -           | 61  | 1SA                  | -           | 62   |
|                                                                                                                  | -           | 63  | 1SA                  | -           | 64   |
|                                                                                                                  | -           | 65  | 1SA                  | -           | 66   |
|                                                                                                                  | -           | 67  | 1SA                  | -           | 68   |
|                                                                                                                  | -           | 69  | 1SA                  | -           | 70   |
|                                                                                                                  | -           | 71  | 1SA                  | -           | 72   |
|                                                                                                                  | -           | 73  | 1SA                  | -           | 74   |
|                                                                                                                  | -           | 75  | 1SA                  | -           | 76   |
|                                                                                                                  | -           | 77  | 1SA                  | -           | 78   |
|                                                                                                                  | -           | 79  | 1SA                  | -           | 80   |
|                                                                                                                  | -           | 81  | 1SA                  | -           | 82   |
|                                                                                                                  | -           | 83  | 1SA                  | -           | 84   |
| <div><input type="checkbox"/> SURFACE</div> <div><input type="checkbox"/> FLUSH</div> <div>PANEL LOCATION:</div> |             |     |                      |             |      |

PANEL PP – 5A

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Notes:

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| 1   | ISSUED FOR PERMIT/TENDER | 2026.08.28 KS |
| 0   | ISSUED FOR PERMIT        | 2026.08.21 KS |
| No. | Revision                 | Date By       |

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Seal

LICENSED PROFESSIONAL ENGINEER

K. SEGUIN

August 26, 2026

PROVINCE OF ONTARIO

Project

LIBURDI AUTOMATION INC.

PROPOSED MANUFACTURING ADDITION

45 Innovation Dr, Hamilton, ON L9H 7L8

Title

PANEL SCHEDULES

Drawn By: JD

Designed By: JD

Approved By: KS

Date: December 2025

Project No. 25-124

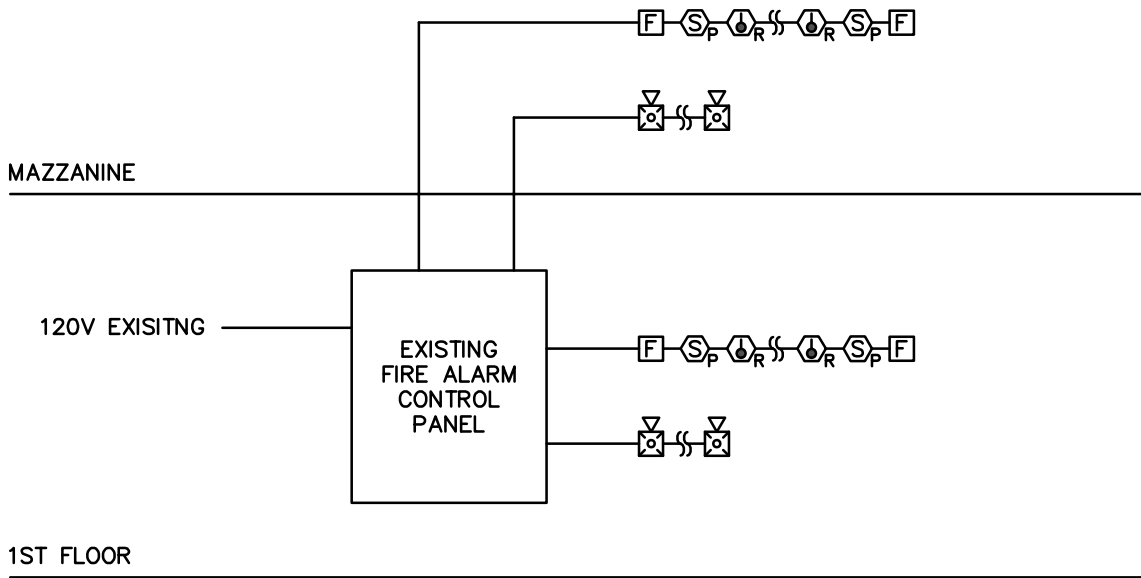
Scale NTS

Drawing No. E5.02

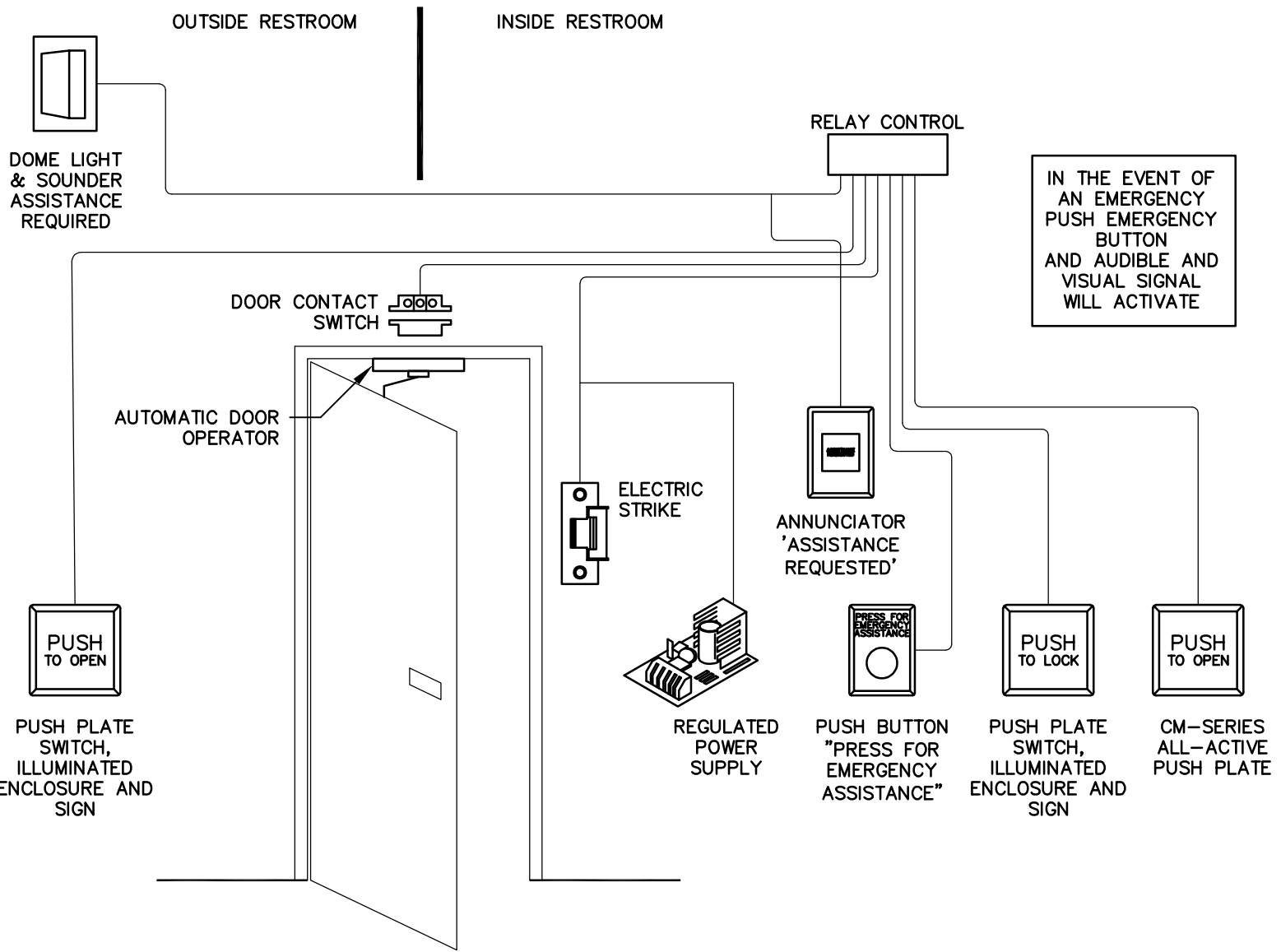
Sheet 9 of 10

Revision 0

| FIRE ALARM ZONE SCHEDULE |                             |       |         |
|--------------------------|-----------------------------|-------|---------|
| ZONE                     | DESCRIPTION                 | ALARM | TROUBLE |
| X                        | ADDITION - 1ST FLOOR        | X     |         |
| X                        | ADDITION - MEZZANINE        | X     |         |
| X                        | ADDITION - ADDITION STAIR 1 | X     |         |
| X                        | ADDITION - ADDITION STAIR 2 | X     |         |
| X                        | ADDITION - ELEVATOR         | X     |         |
| X                        | UNIT 4 - 1ST FLOOR          | X     |         |
| X                        | UNIT 4 - MEZZANINE          | X     |         |
| X                        | UNIT 4 - STAIR 3            | X     |         |

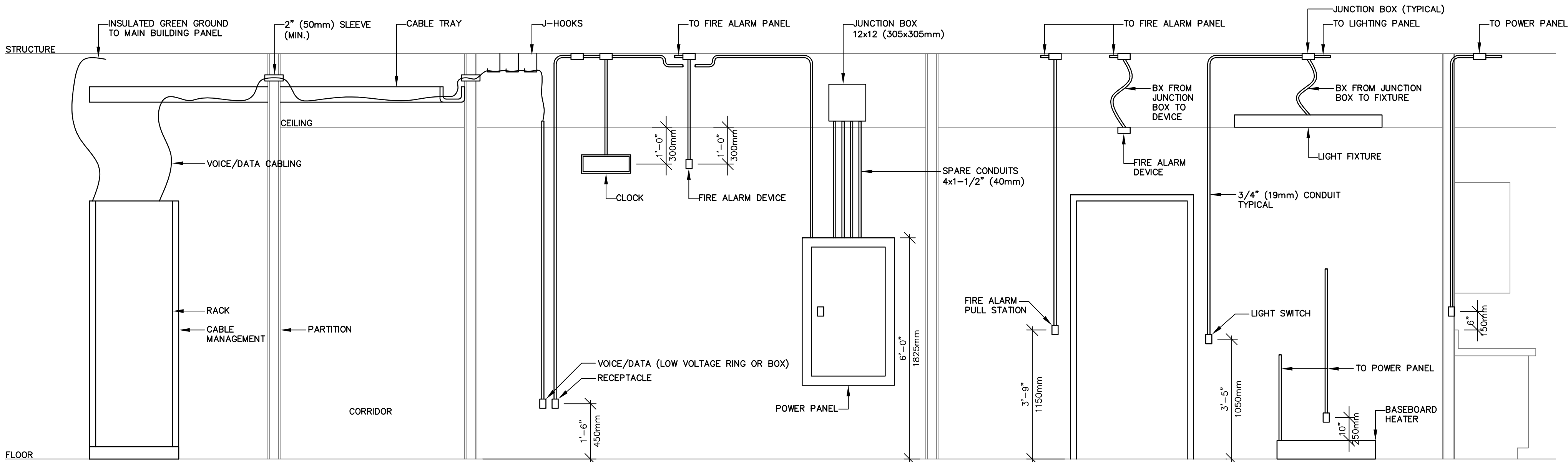


PROPOSED FIRE ALARM MODIFICATIONS RISER DIAGRAM 3  
SCALE: NTS E6.00



- DETAIL NOTES:
- UNIVERSAL WASHROOM SHALL BE EQUIPPED WITH AN AUTOMATIC DOOR OPENER. THE OPENER SHALL ALSO INCLUDE A "PUSH TO LOCK" BUTTON ON THE INSIDE. ONCE ENGAGED, THIS WILL DISABLE THE EXTERIOR DOOR OPERATOR BUTTON. THE EXTERIOR OCCUPIED LIGHT WILL ILLUMINATE. WHEN THE PATRON HAS FINISHED USING THE WASHROOM, THEY SHALL PRESS THE DOOR OPERATOR BUTTON AND THE "PUSH TO LOCK" WILL DISENGAGE AND THE DOOR OPERATOR WILL OPEN THE DOOR AND TURN OFF THE OCCUPIED LIGHT.
  - THE JUNCTION BOX SHALL BE MOUNTED AT HIGH LEVEL ON THE INSIDE OF THE ROOM.
  - ALL CONDUITS SHALL BE A MINIMUM OF 3/4". PROVIDE PULL ROPES FOR LOW VOLTAGE WIRING BY OTHERS. CONDUITS ARE TO BE CONCEALED IN WALL. SURFACE DEVICES AND CONDUIT IS NOT PERMITTED.
  - COORDINATE THE LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN WITH DOOR HARDWARE SUPPLIER/INSTALLER.
  - COORDINATE WORK WITH HARDWARE SUPPLIER AND PROVIDE ANY MATERIALS NOT INCLUDED IN THEIR QUOTE TO FACILITATE A COMPLETE SYSTEM.
  - TEST AND ADJUST THE OPERATION OF THE DOOR TO THE OWNERS SATISFACTION. PROVIDE TRAINING AS REQUIRED TO OWNERS MAINTENANCE STAFF ON DOOR OPERATION, MAINTENANCE AND ADJUSTMENT.

TYPICAL UNIVERSAL WASHROOM DETAIL 2  
SCALE: NTS E6.00



- DETAIL NOTES:
- DETAIL IS APPLICABLE FOR DEVICES SHOWN ON PLANS. ALL THE DEVICES INDICATED IN THE DETAIL MAY NOT OCCUR ON THE PLANS.
  - CONDUIT SHALL BE PROVIDED IN ALL CASES UNLESS DENOTED AS BX OR AS ALLOWED IN THE SPECIFICATIONS.
  - ALL CONDUITS FOR LOW VOLTAGE CABLING AND WIRING SHALL HAVE BUSHINGS INSTALLED TO PREVENT CHAFFING OF WIRE(S).
  - ALL CONDUITS ARE TO GO DIRECTLY FROM THE OUTLET BOX UP THE WALL INTO THE CEILING SPACE. NO HORIZONTAL RUNS OF CONDUIT, OR GROUPING OF CONDUITS WITH OTHER SERVICES IN CLOSE PROXIMITY.
  - CONDUITS ARE TO HAVE PULL ROPES INSTALLED AND LEFT BEHIND TO ALLOW THE PULLING OF ADDITIONAL SERVICES IN THE FUTURE.
  - ALL BREACHES IN WALLS ARE TO BE FIRESTOPPED TO MAINTAIN THE FIRE SEPARATIONS.
  - PROVIDE SUPPORTS FOR ALL CEILING MOUNTED ELEMENTS (IE CHAIN HANGERS FOR FIXTURES ETC.) DEVICES SHALL NOT BE SUPPORTED BY A CEILING TILE.

TYPICAL MOUNTING HEIGHTS/INSTALLATION DETAIL 1  
SCALE: NTS E6.00

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| No. | Revision                 | Date       | By |
|-----|--------------------------|------------|----|
| 1   | ISSUED FOR PERMIT/TENDER | 2026.08.28 | KS |
| 0   | ISSUED FOR PERMIT        | 2026.08.21 | KS |



Project  
**LIBURDI AUTOMATION INC.**  
**PROPOSED MANUFACTURING ADDITION**  
45 Innovation Dr, Hamilton, ON L9H 7L8

| Title<br>DETAILS      |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| Drawn By:<br>JD       | Designed By:<br>JD | Approved By:<br>KS | Date:<br>December 2025 |
| Project No.<br>25-124 | Scale<br>As Noted  |                    |                        |
| Drawing No.<br>E6.00  | Sheet<br>10 of 10  | Revision<br>0      |                        |