

40 King St.  
Dartmouth, NS  
B2Y 2R4

111 Provost Street  
New Glasgow, NS  
B2H 5E1

Addendum

New Glasgow Public Library & PARL Headquarters Revitalization

|               |                |            |
|---------------|----------------|------------|
| Issued        | Project Number | Addendum # |
| 16 April 2024 | 23-053         | 04         |

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. It is the responsibility of the Bidder to bring this addendum to the attention of all subcontractors and material suppliers. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

Addendum

The following information supplements and/or supersedes the bid documents Issued for Tender, dated February 29, 2024.

1.0 Specifications

- 1.1 Reference Spec Section 00 21 13 - Instructions to Bidders
- Revise section 1.1.1 Bid Call: Bids will be received up to and including **2:00PM local time on May 1st, 2024** ("the bid closing time").
- 1.2 Reference Spec Section 00 21 13 - Instructions to Bidders
- Add under 1.1 Bid Call:
- .7 All inquires are to be submit up to and including **April 24th, 2024**.
- 1.3 Add Specification Section 07 21 14 Spray Applied Polyurethane Foam
- Add under 2.1.1:
- .2 Boreal Elite (CCMC #14140-L), by Genyk, or similar to same effect and warranty, and meeting or exceeding the physical properties of the basis-of-design material. System must meet the requirements of this specification Section, and the following minimum additional requirements, with unequivocal compliance:
- .1 CCMC approved in accordance with CAN/ULC S705.1 Standard.
- .2 Conforms to CAN/ULC S 705.2.
- .3 LEED Compliant
- .4 Environmental Product Declaration audited
- .5 GreenGuard Gold Certified
- 1.4 Reference Specification Section 22 42 01 Plumbing Specialties and Accessories.
- Add under 2.3.1:
- .2 FFD (Funnel Floor Drain)

## Addendum

- .1 4" dia. round funnel & 6" dia. adjustable strainer.

- .1 Acceptable Manufacturer:
  - Watts FD-100BEF
  - Mifab F1100C-F4
  - Smith 3510
  - Zurn ZN-415BE

### 1.5 Reference Specification Section 22 42 01 Plumbing Specialties and Accessories.

Add under 2.4.1:

- .2 DD (Deck Drains)
  - .1 12" Square Top Prom-Deck drain, Dura-Coated cast iron body with rotatable light duty square promenade frame with seepage openings, frame clamps and light duty heel-proof grate, extensions as required.
    - .1 Acceptable Manufacturers:
      - Mifab
      - Smith
      - Watts
      - Zurn Z154

### 1.6 Reference Specification Section 23 72 00 Air to Air Energy Recovery Equipment

- 1. Add the following under 2.2.14 Acceptable Alternates:
  - Semco

### 1.7 3. Reference Specification Section 23 81 40 Heat Pumps

- 1. Add the following under 2.7 Acceptable Materials:
  - LG

### 1.8 4. Reference Specification Section 25 30 02 EMCS: Field Control Devices

- 1. Add 3.2.7 Room Temperature Sensors and Display Wall Modules:
  - .1 Install at 42" above finished floor, coordinate with furniture and light switches.

## 2.0 Drawings

- 2.1 Replace Drawing A106 Level 2 Floor Plan: Revise fire rating and assembly of mechanical shafts.
- 2.2 Replace Drawing A402 and A403 Plan Details: Additional dimensioning for lighting.
- 2.3 Replace Drawing A500 Section Details: Additional mechanical louvre in soffit.
- 2.4 Replace Drawing A502 Section Details: Detail 2/A504 - Additional non-shrink grout under sill and sealant at curtain wall entrance.
- 2.5 Replace Drawing A503 Section Details: Detail 2/A504 and 3/A504 - Additional water-proofing and flashing at guardrail standoff.
- 2.6 Replace Drawing A504 Section Details: Detail 2/A502 and 3/A502 - Additional non-shrink grout and steel angle under sill.

## Addendum

**2.7 Replace Drawing A511 Section Details:** New details of rooftop gooseneck, roofdrain, small doghouse (north roof above program room) and mechanical equipment curb.

**2.8 Reference Drawing MV-101 Ventilation – Level 1 - Removal:** Revise with MSK01.

**2.9 Reference Drawing MH-103 Heating – Level 1 – New Work**

1. Revise with MSK02.
2. Revise with MSK03.
3. Add detail 2 as per MSK05.

**2.10 Reference Drawing MH-104 Heating – Level 2 – New Work:** Revise with MSK04.

**2.11 Reference Drawing MV-104 Ventilation – Level 1 – New Work:** Add detail 2 as per MSK06.

**2.12 Reference Drawing MP-104 Plumbing – Basement & Level 1 – Sanitary – New Work:** Add detail 2 as per MSK07.

**2.13 Reference Drawing MH-501 Heating – Details and Schematic:** Revise with MSK08

**2.14 Reference Drawing MV-601 Ventilation Details and Schedules:** Revise with MV-601 Revision 2

**2.15 Reference Drawing E001, E110 to E119, E501, E503, E601 and E602:**

Revisions as listed and clouded in attached drawings:

1. Contractor to supply and install reverse acting thermostat and power to new exhaust fan.
2. Contractor to supply and install fire alarm connection and 120 volt power to fire smoke dampers throughout.
3. Wiring and components required for existing elevator revised to suit.
4. Lighting control revised to schedule enclosed and relay panel count. Alternate configurations including room controllers through are acceptable subject to meeting performance requirements.
5. Minor lighting revisions throughout
6. Adjustments to suite mechanical equipment changes/additions throughout.
7. Access control and door hardware bollards are to be supplied by others.

## 3.0 Clarifications

**3.1 Question:** Please confirm that door 100.1 needs to be fire rated aluminum and glazing.  
**Answer:** Yes, this is correct.

**3.2 Question:** Is there new masonry on the New Glasgow Library and Parl HQ project?  
**Answer:** Yes, there is new soldier coursing at the top of the existing brick walls. Drainage material is to be used behind these new courses to prevent mortar from dropping into the existing cavity and blocking drainage of the cavity.

**3.3 Question:** The Millwork Specifications (06 40 00 1.3.6) call for FSC Certification. The majority of millwork contractors in NS do not have this Certification. They can however perform the work using FSC materials and practices, but will not be able to provide

## Addendum

a letter of certification or chain of custody upon completion of the project. Can the FSC Certification be waived?

**Answer:** We will waive the requirement for FSC certification, and will require FSC materials and performance to be provided.

**3.4 Question:** Do you need us to provide the support steel for the Corten Panels? And if so, the engineer would need to provide a detail showing the anchors required etc.

**Answer:** Yes, the structural metal fabrication for the support of the Corten Panels is to be structurally designed and supplied by the fabricator, as per section 1.3.1.2.2 in Specification Section 05 50 00.

**3.5 Question:** We won't provide the glass guardrails, but do you need us to provide the stand-offs?

**Answer:** Guardrails are to be supplied and installed as specified. The standoffs are also to be provided. Refer to structural drawing 3/S310. Refer to revised detail for updated on waterproofing at standoff.

### 4.0 Attachements:

01 35 01 - Delegated Design

A106 - Level 2 Floor Plan  
A402 - Plan Details  
A403 - Plan Details  
A500 - Section Details  
A502 - Section Details  
A503 - Section Details  
A504 - Section Details  
A511 - Section Details

MSK01  
MSK02  
MSK03  
MSK04  
MSK05  
MSK06  
MSK07  
MSK08  
MSK09  
MSK10  
MSK11  
MSK12  
MV-104 Revision 2  
MV-105 Revision 2



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MV-502  
MV-601 Revision 2  
MC-101 Revision 2

E-001-ELECTRICAL LEGEND  
E-110-LTG-BFL-N  
E-111-LTG-1FL-N  
E-112-LTG-2FL-N  
E-113-PWR&COMMS-BFL-N  
E-114-PWR&COMMS-1FL-N  
E-115-PWR&COMMS-2FL-N  
E-116-PWR-ROOF-N  
E-117-SYS-BFL-N  
E-118-SYS-1FL-N  
E-119-SYS-2FL-N  
E-501-ELECTRICAL DETAILS I  
E-503-ELECTRICAL DETAILS III  
E-601-SCHEDULES  
E-602-SLD & SCHEDULES

**All other specifications, terms and conditions remain unchanged.**



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| 2   | ISSUED FOR ADDENDUM 03 | 2024-04-11 |
| 3   | ISSUED FOR ADDENDUM 04 | 2024-04-16 |

GENERAL NOTES

- ALL DIMENSIONS TO EXISTING CONDITIONS TAKEN FROM FACE OF EXISTING GYPSUM WALL, UNLESS NOTED OTHERWISE.
- DIMENSIONS OF ALL NEW PARTITIONS ARE TAKEN FROM CENTERLINE OF STUD, UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS IN DAMAGING PARTITIONS FOR PIPING, DUCTWORK, OR ELECTRICAL SERVICES MUST BE PROPERLY SEALED AND MUST CONFORM TO THE FIRE RATING OF THE PENETRATED ASSEMBLY.
- ALL NEW PARTITIONS TO EXTEND FROM FINISHED FLOOR TO U/S OF STRUCTURE, UNLESS NOTED OTHERWISE.
- ACOUSTIC SEALANT TO BE CONTINUOUS AT CEILING, WALL AND FLOOR JUNCTIONS AND PERIMETER OF ALL PENETRATIONS. FIRE RATED SEALANT TO BE USED AT RATED ASSEMBLIES.
- REFER TO FINISH FLOOR PLAN FOR WINDOW BLIND LOCATIONS.
- PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT.
- ALL DIMENSIONS TO FRAMES ARE TAKEN FROM THE CENTERLINE.
- ALL DOOR FRAMES TO BE LOCATED 4" FROM FACE NEAREST PARTITION, UNLESS NOTED OTHERWISE.
- MAINTAIN STRUCTURAL COLUMNS 45 MIN. FIRE RATING UP TO AND INCLUDING THE CONNECTIONS WHERE COLUMNS AND BEAM FASTEN TO ONE ANOTHER.
- MAINTAIN EXISTING FIRE RATINGS IN EXISTING PARTITIONS. ALL NEW PENETRATIONS THROUGH EXISTING FIRE RATED ASSEMBLIES TO BE TREATED WITH FIRE RATED SEALANT, FIRE DAMPERS OR FIRE STOPPING.
- REFER TO INTERIOR ELEVATION ON SHEETS A600 TO A610 FOR WALL FINISH.
- INFILL SLAB AT REMOVED ENTRY MAT.
- ALL STRUCTURAL STEEL AT FIRE RATED ASSEMBLIES TO BE PREPPED FOR APPLICATION OF FIRE PROTECTION COATINGS.

FLOOR PLAN LEGEND

- AREA NOT IN SCOPE OF WORK
- EXISTING BUILDING COMPONENTS
- EXISTING DOOR AND FRAME
- NEW DOOR AND FRAME
- NEW DOOR AND FRAME WITH SIDELITES
- EXISTING GLAZING
- NEW GLAZING
- MILLWORK IDENTIFIER
- EQUIPMENT IDENTIFIER
- EXTERIOR WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE
- PARTITION IDENTIFIER REFER TO ASSEMBLIES SCHEDULE
- ROOF DRAIN
- RECESSED ENTRY MAT  
EM1: 2'-10 1/2" x 18'-0"  
EM2: 3'-0" x 5'-3 1/2"

FIRE RATING LEGEND

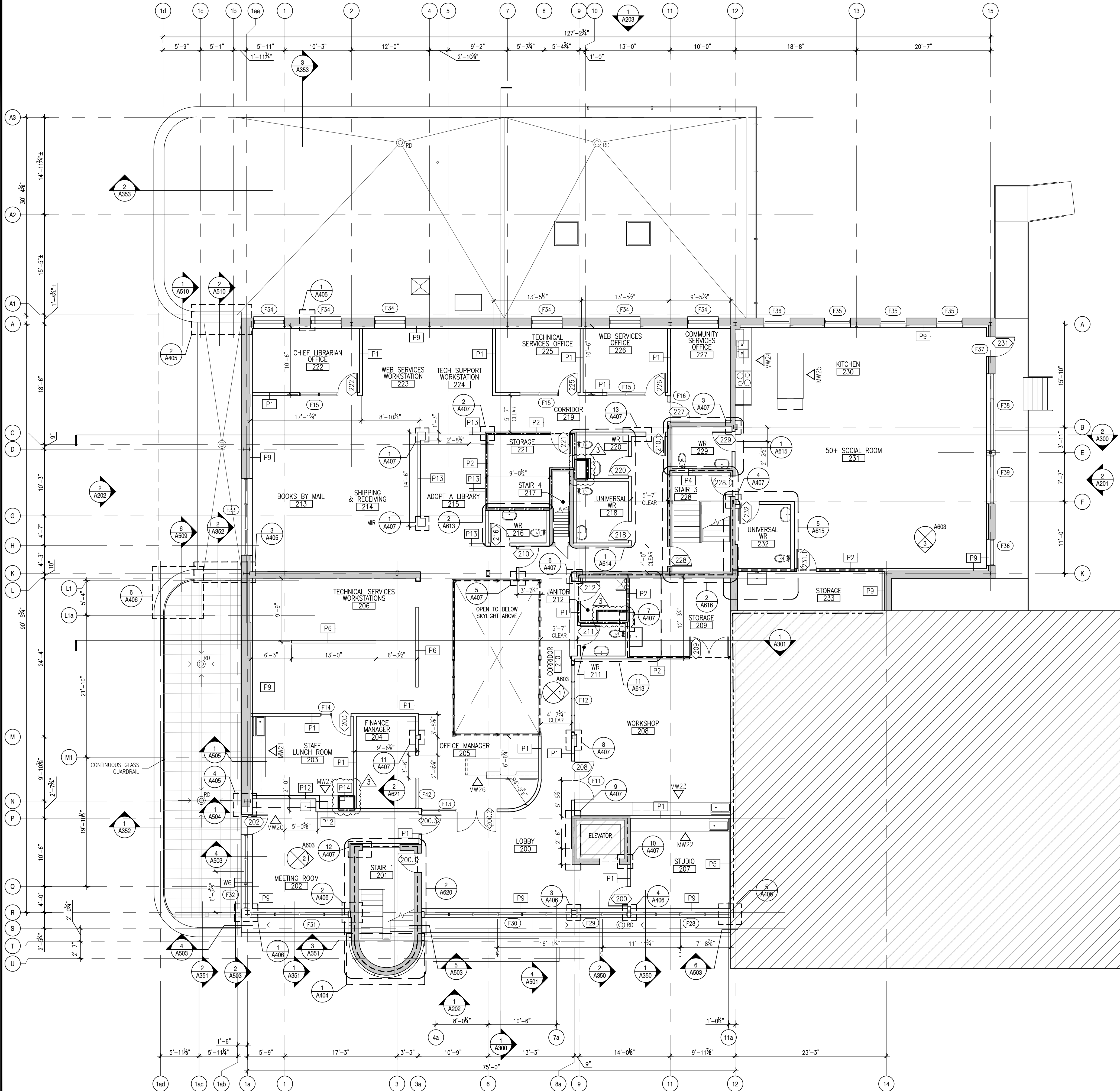
- LINE INDICATES EXTENT OF 45 MINUTE FIRE SEPARATION
- LINE INDICATES EXTENT OF 1-HOUR FIRE SEPARATION
- LINE INDICATES EXTENT OF 2-HOUR FIRE SEPARATION  
ALL NEW AND EXISTING OPENINGS IN THIS PARTITION TO BE FULLY FIRE STOPPED, DAMPERD AND SEALED TO MAINTAIN SEPARATION

EXTERIOR WALL ASSEMBLIES

- W1**
  - 10" WIDE VERTICAL TERRA COTTA PANELS ON HORIZONTAL TRACK SYSTEM
  - 6" FLEECE LINED SEMI-RIGID MINERAL WOOL INSULATION C/W VERTICAL 6" Z-GIRTS
  - VAPOUR PERMEABLE AIR BARRIER
  - 3/4" GYPSUM SHEATHING
  - 6" STRUCTURAL STEEL STUDS AT 16" OC
  - 4" CLOSED CELL SPRAY FOAM INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD
- W2**
  - 12mm THICK, 10" WIDE W/ 1/2" GAPS VERTICAL HIGH DENSITY FIBER CEMENT PANELS ON 1" HAT CHANNELS
  - 6" FLEECE LINED SEMI-RIGID MINERAL WOOL INSULATION C/W VERTICAL Z-GIRT SUPPORT SYSTEM
  - VAPOUR PERMEABLE AIR BARRIER
  - 3/4" GYPSUM SHEATHING
  - 6" STRUCTURAL STEEL STUDS AT 16" OC
  - 4" CLOSED CELL SPRAY FOAM INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD
- W3**
  - 10" WIDE VERTICAL TERRA COTTA PANELS ON HORIZONTAL TRACK SYSTEM
  - 4" VERTICAL Z-GIRTS
  - VAPOUR PERMEABLE AIR BARRIER
  - EXISTING 8" ICF WALL
  - 3/8" STEEL STUD FURRING WALL AT 16" OC
  - 3/8" TYPE X GYPSUM WALL BOARD
- W4**
  - 10" WIDE VERTICAL TERRA COTTA PANELS ON HORIZONTAL TRACK SYSTEM
  - 8" FLEECE LINED SEMI-RIGID MINERAL WOOL INSULATION C/W HORIZONTAL AND VERTICAL 4" Z-GIRTS
  - VAPOUR PERMEABLE AIR BARRIER
  - 8" CAST IN PLACE CONCRETE WALL
  - 3/8" STEEL STUD FURRING WALL AT 16" OC
  - 3/8" STRUCTURAL STEEL STUDS AT 16" OC
  - 3/8" CLOSED CELL SPRAY FOAM INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD
- W5**
  - 12mm THICK, 10" WIDE W/ 1/2" GAPS VERTICAL HIGH DENSITY FIBER CEMENT PANELS ON 1" HAT CHANNELS
  - VAPOUR PERMEABLE AIR BARRIER
  - 3/8" GYPSUM SHEATHING
  - 6" STRUCTURAL STEEL STUDS AT 16" OC
  - EXISTING WALL
- W6**
  - 12mm THICK, 10" WIDE W/ 1/2" GAPS VERTICAL HIGH DENSITY FIBER CEMENT PANELS ON 1" HAT CHANNELS
  - 2" SEMI-RIGID MINERAL WOOL INSULATION C/W VERTICAL 2" Z-GIRTS
  - VAPOUR PERMEABLE AIR BARRIER
  - EXISTING CMU
  - 3/8" STEEL STUD FURRING WALL AT 16" OC
  - 3" CLOSED CELL SPRAY FOAM INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD

INTERIOR PARTITION ASSEMBLIES

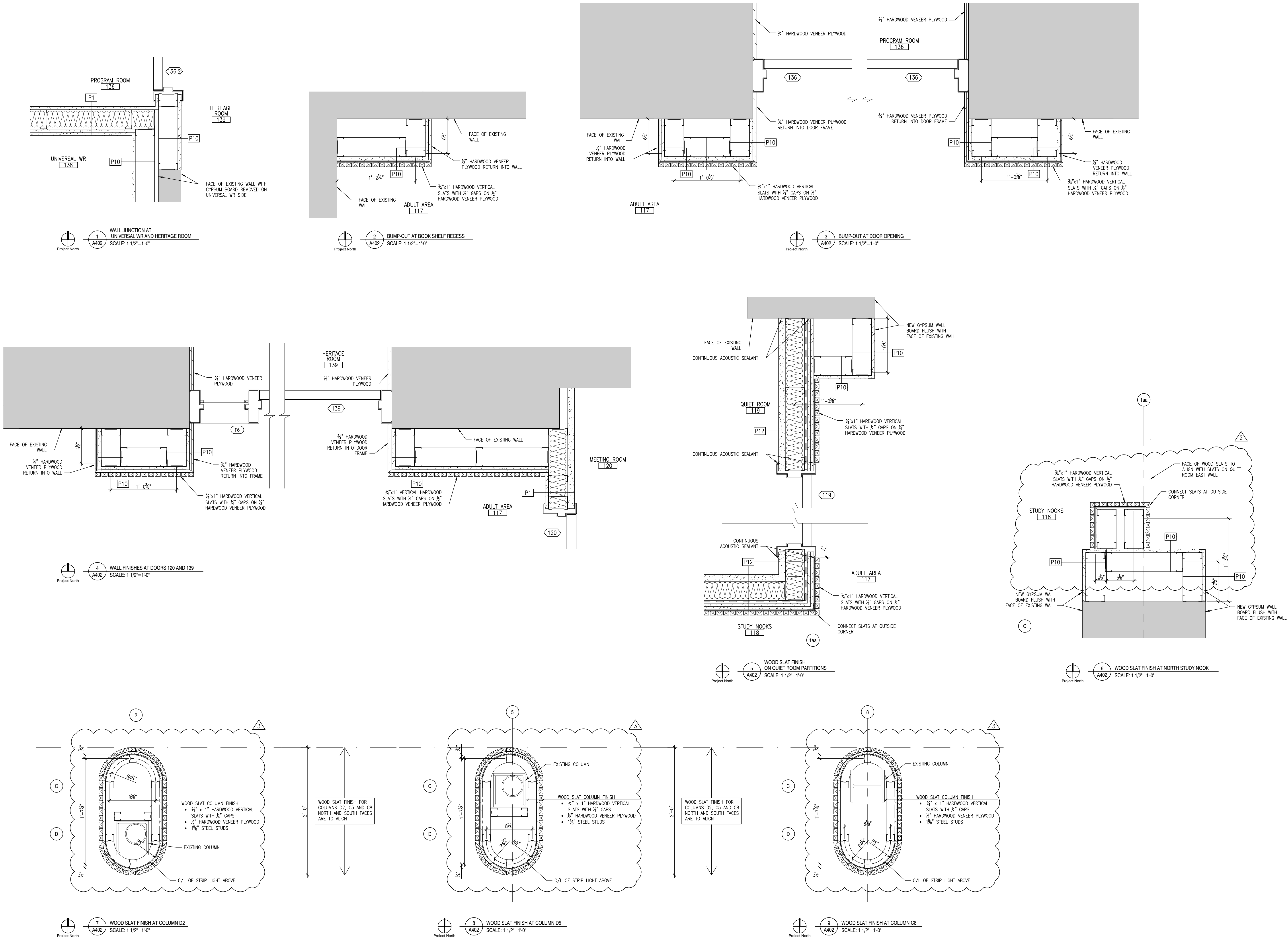
- P1**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3 3/4" STEEL STUDS AT 16" OC
  - 3 3/8" MINERAL WOOL BATT INSULATION
  - 2 LAYERS 3/8" TYPE X GYPSUM WALL BOARD
- P2**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3 3/4" STEEL STUDS AT 16" OC
  - 3 3/8" MINERAL WOOL BATT INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD
- P3**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 1/2" PLYWOOD SHEATHING
  - 6" STRUCTURAL STEEL STUDS AT 12" OC
  - 6" MINERAL WOOL BATT INSULATION
  - 3/8" TYPE X GYPSUM WALL BOARD
- P4**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 2 1/2" STEEL STUDS AT 16" OC
  - 2 1/2" STEEL STUDS AT 16" OC
  - 3/8" TYPE X GYPSUM WALL BOARD
- P5**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3/8" HORIZONTAL STEEL FURRING CHANNELS AT 16" OC
- P6**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 92S162-54 STEEL STUDS AT 12" OC MAX
  - 3/8" TYPE X GYPSUM WALL BOARD
  - REFER TO DETAIL 1/A003
- P7**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 6" STEEL STUDS AT 16" OC
  - 6" MINERAL WOOL BATT INSULATION
  - 2 LAYERS 3/8" TYPE X GYPSUM WALL BOARD
- P8**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 6" STEEL STUDS AT 16" OC
  - 6" MINERAL WOOL BATT INSULATION
- P9**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3/8" STEEL STUD FURRING WALL AT 16" OC
  - 3" CLOSED CELL SPRAY FOAM INSULATION
- P10**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3/8" STEEL STUDS AT 16" OC
- P11**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 2 1/2" STRUCTURAL STEEL STUDS AT 16" OC
  - 3/8" TYPE X GYPSUM WALL BOARD
- P12**
  - 2 LAYERS 3/8" TYPE X GYPSUM WALL BOARD
  - 3/8" STEEL STUDS SPACED 16" O.C.
  - 3/8" MINERAL WOOL BATT INSULATION
  - RESILIENT METAL CHANNELS AT 24" O.C.
  - 2 LAYERS 3/8" TYPE X GYPSUM WALL BOARD
- P13**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 3/8" STEEL STUDS AT 16" OC
  - 3/8" TYPE X GYPSUM WALL BOARD
  - PARTITION TO EXTEND 8'-0" AFF
- P14**
  - 3/8" TYPE X GYPSUM WALL BOARD
  - 2 1/2" C-H STUDS 25 GAUGE AT 24" O.C.
  - 1" TYPE X GYPSUM LINER PANELS







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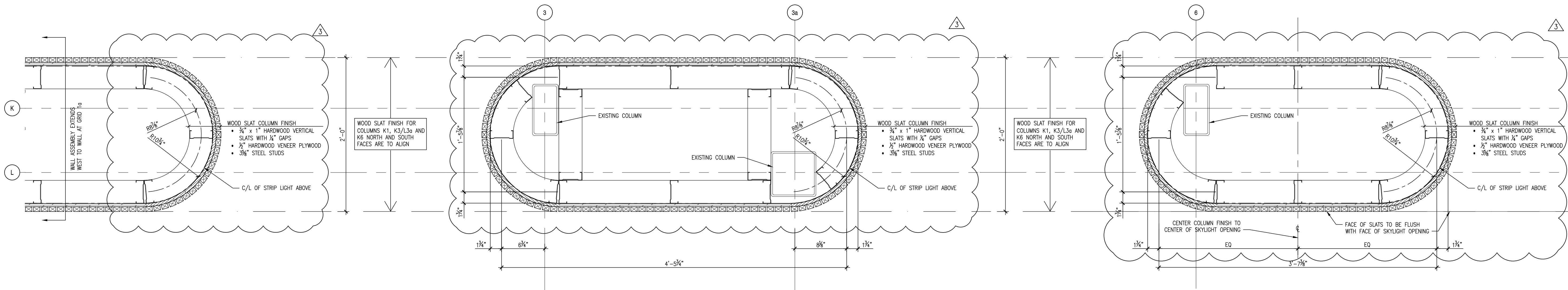






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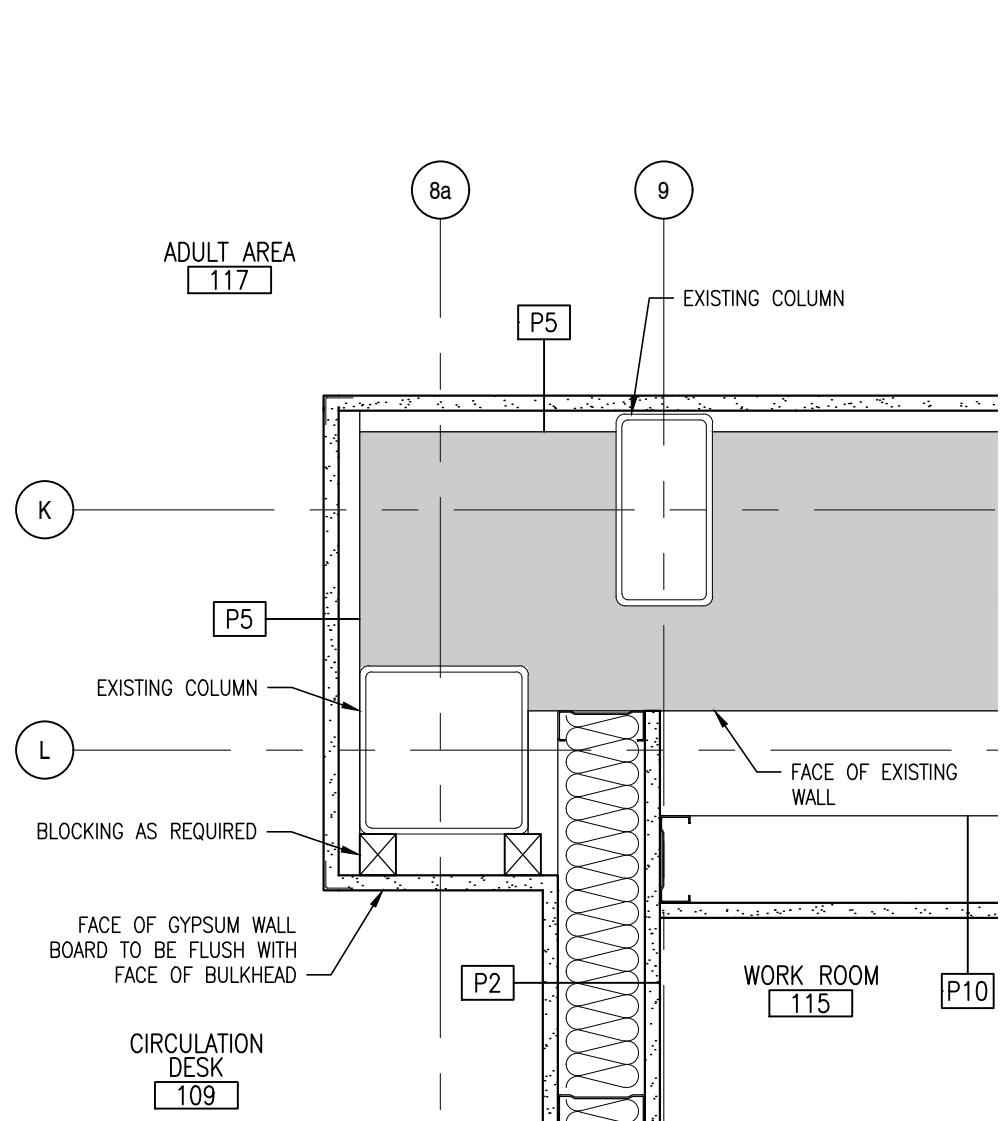
## PLAN DETAILS

Scale Project number  
AS NOTED 23-025Drawn By Checked Approved  
NCSR NEL ILL

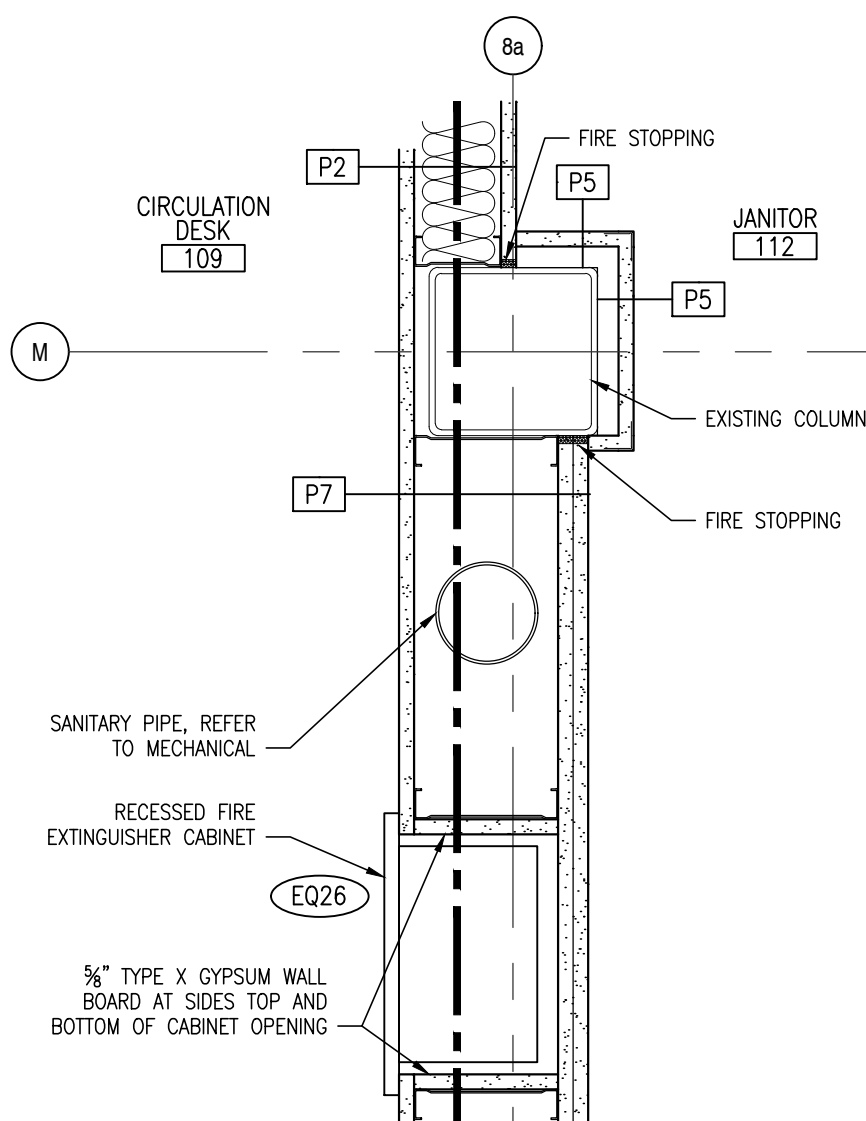
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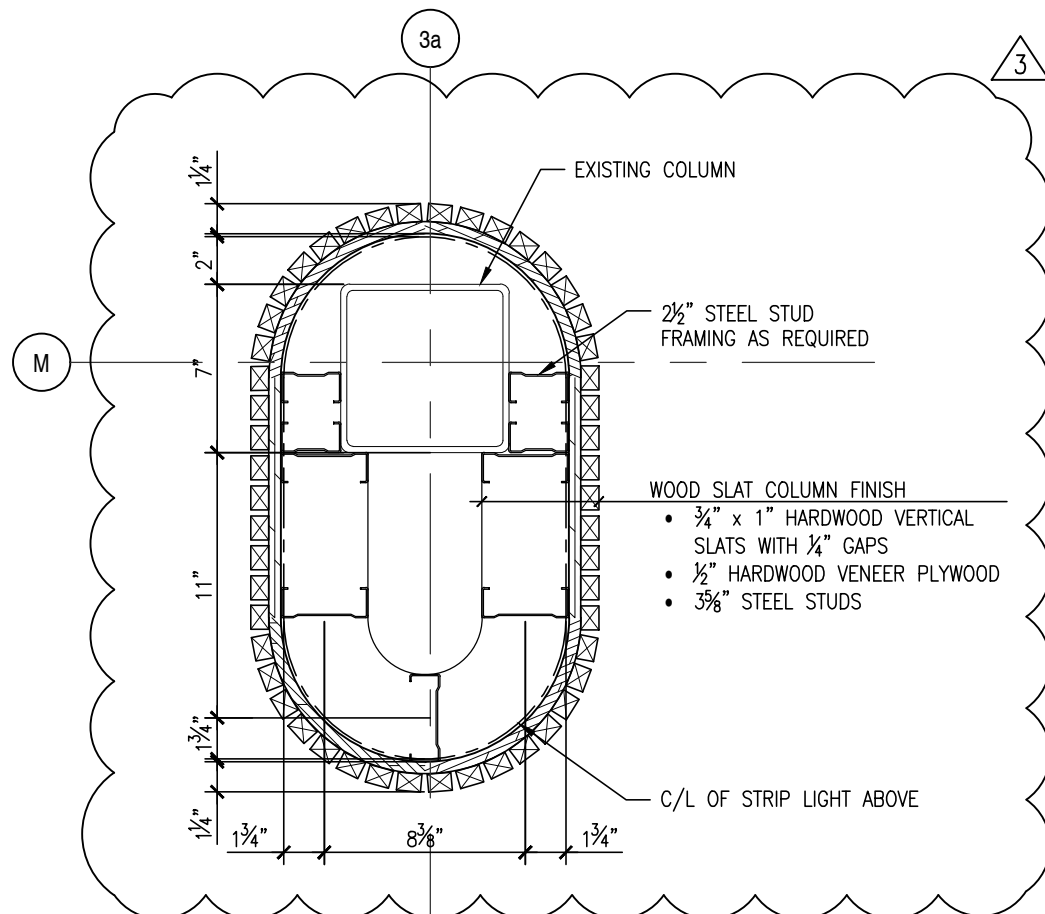
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SCALE: 1 1/2"=1'-0"



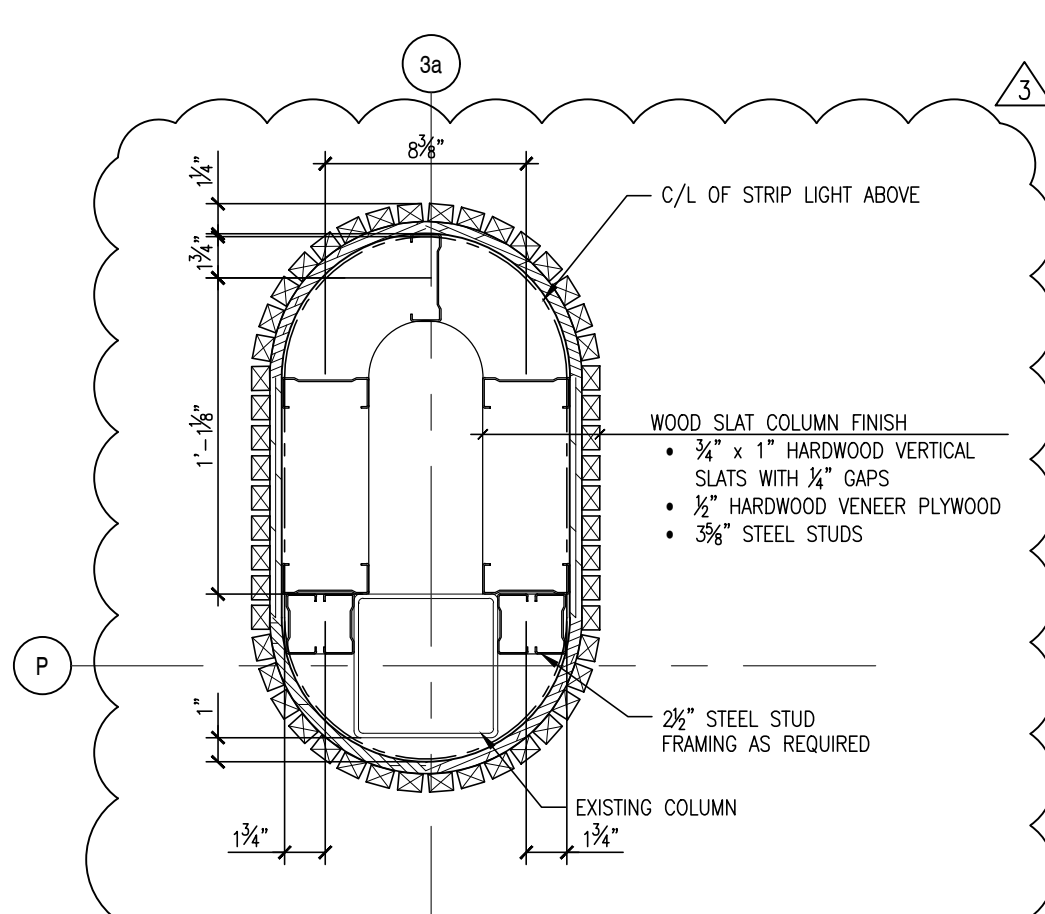
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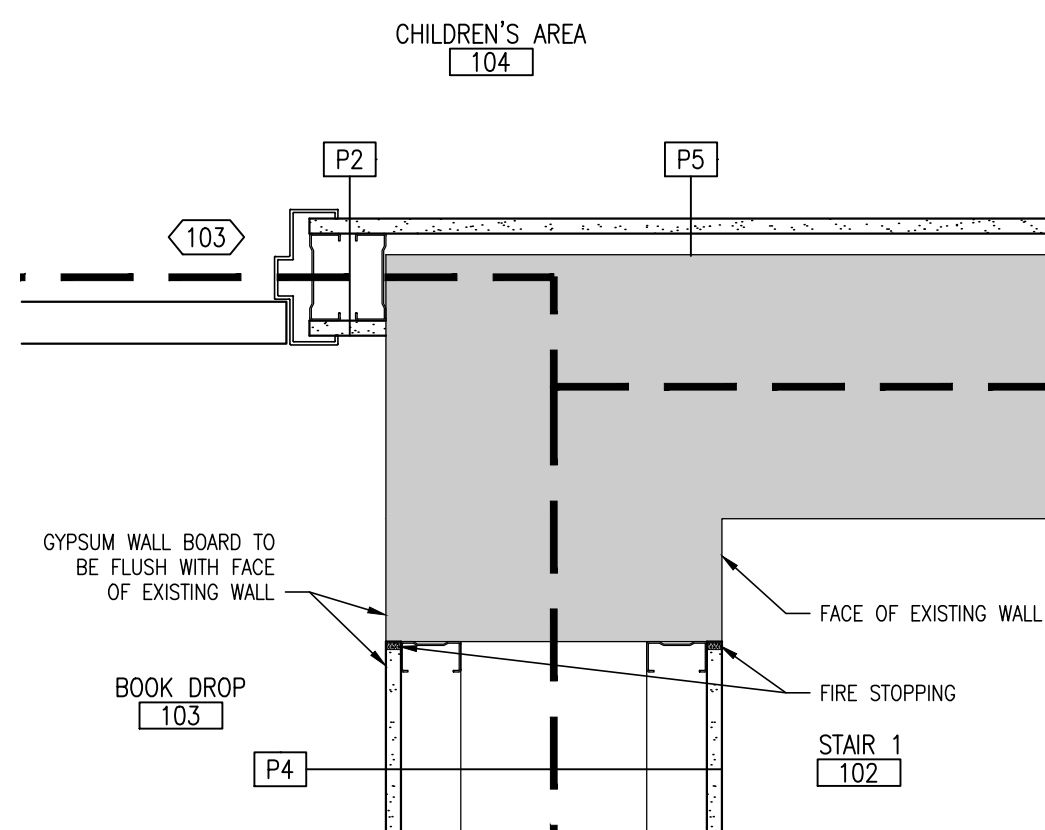
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SCALE: 1 1/2"=1'-0"



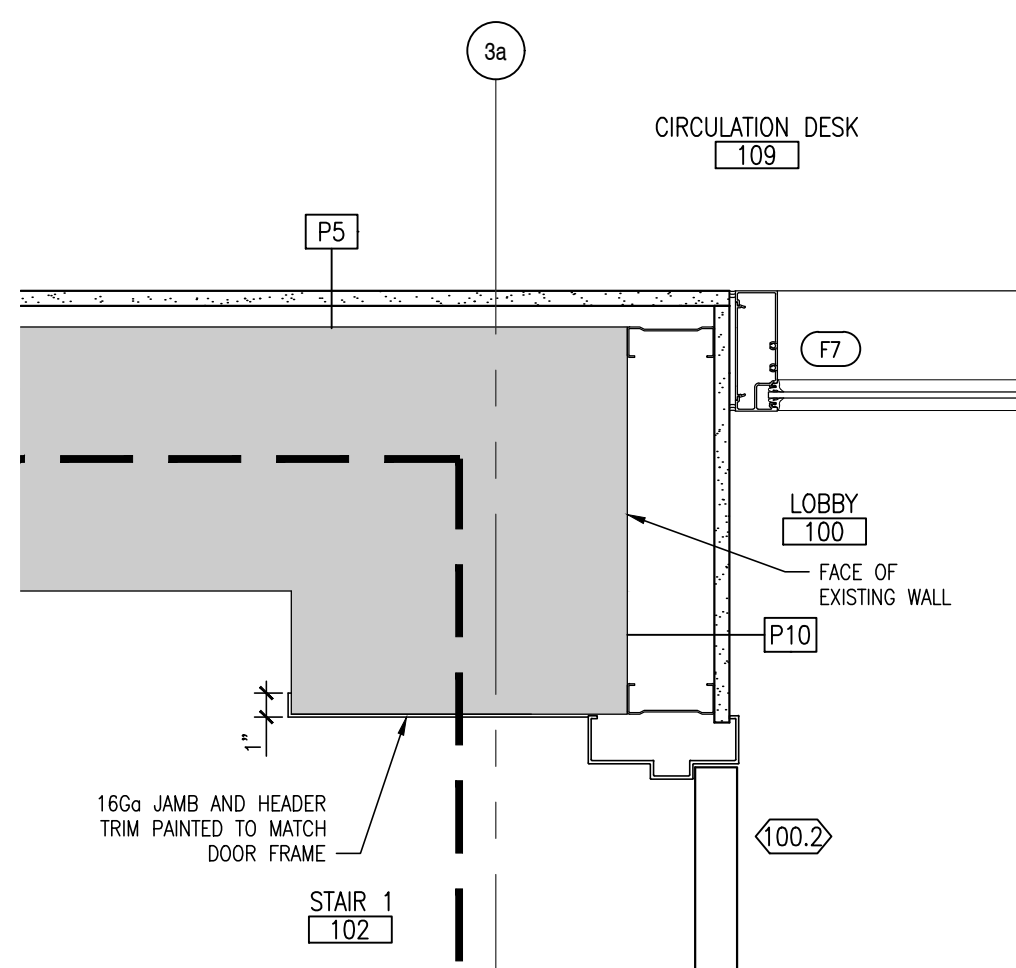
6 WOOD SLAT FINISH AT COLUMN M3a  
SCALE: 1 1/2"=1'-0"



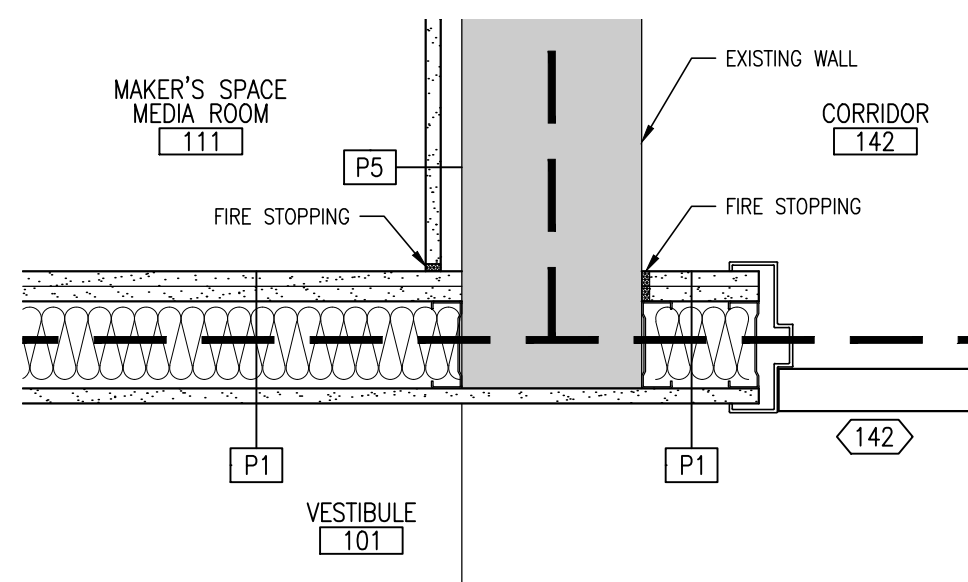
7 WOOD SLAT FINISH AT COLUMN P3a  
SCALE: 1 1/2"=1'-0"



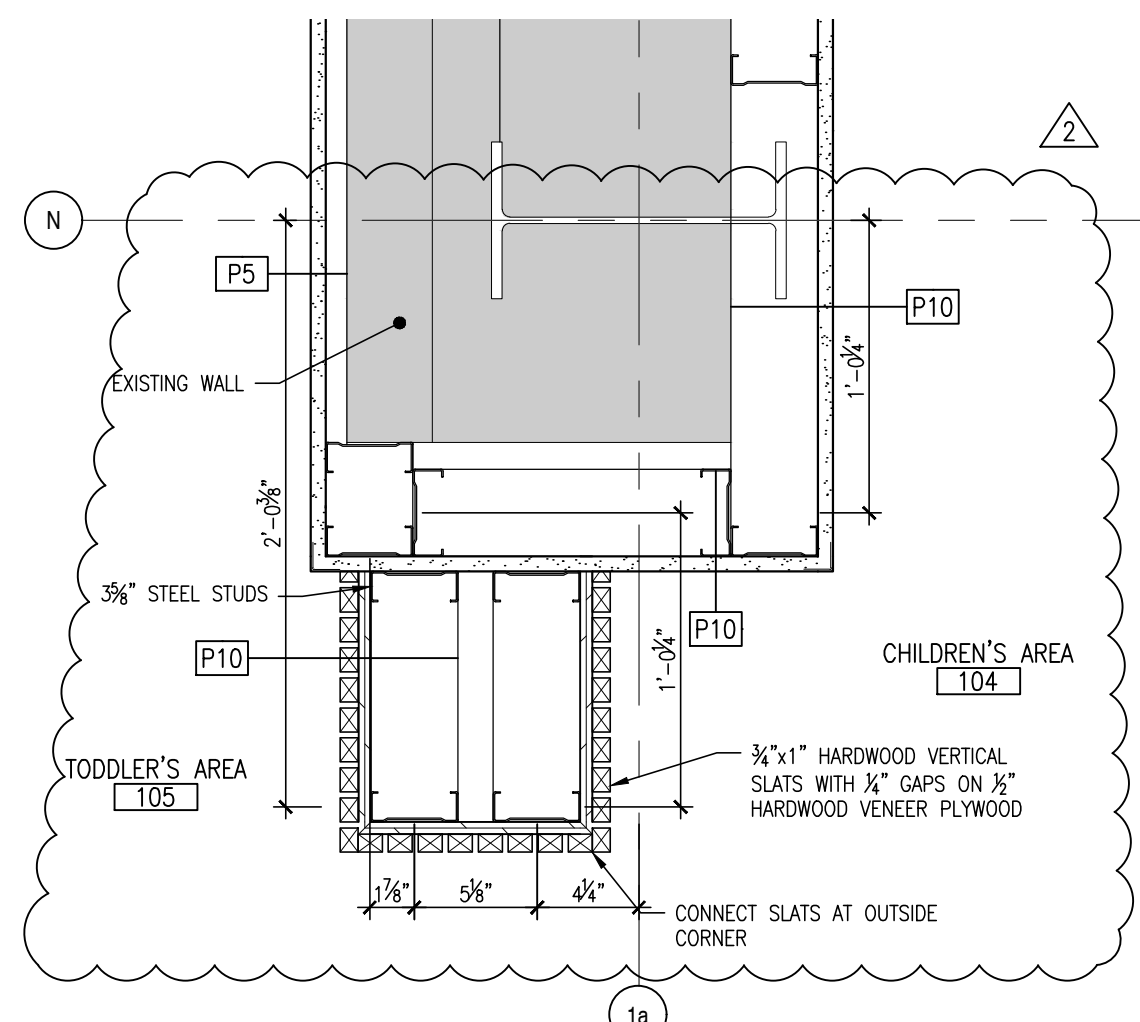
8 DOOR JAMB AND WALL INFILL AT STAIR 1  
SCALE: 1 1/2"=1'-0"



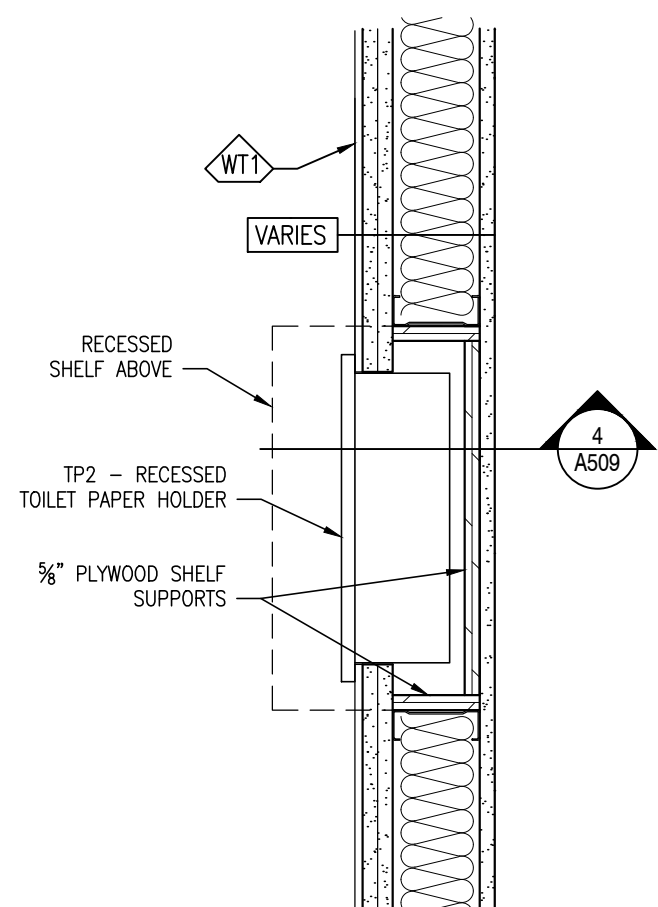
9 NEW DOOR AND SIDELITE JAMB AT STAIR 1  
SCALE: 1 1/2"=1'-0"



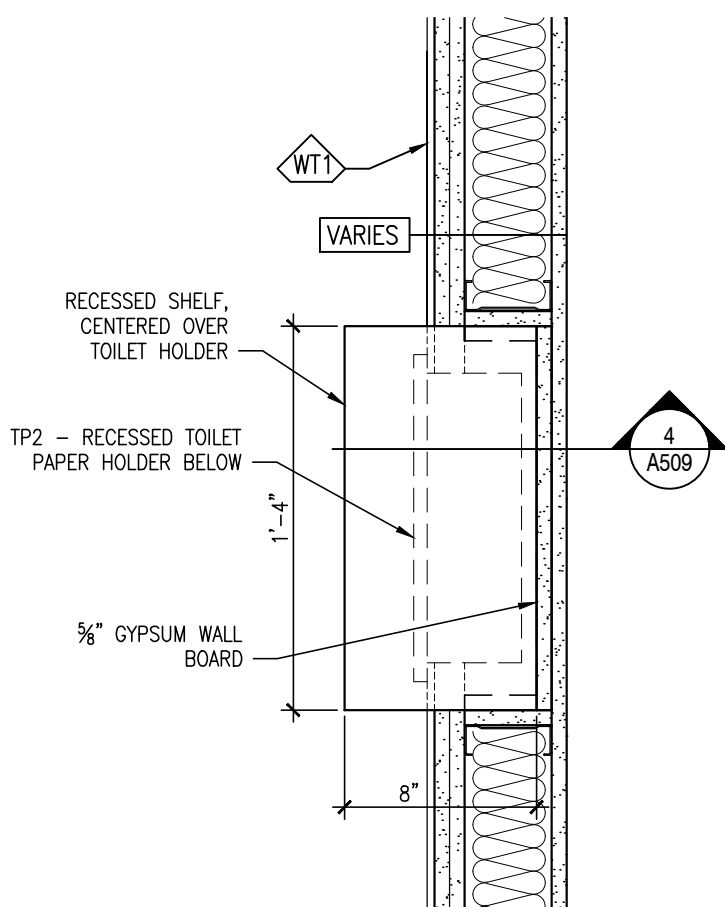
10 CORRIDOR 142 DOOR JAMB  
SCALE: 1 1/2"=1'-0"



11 PLAN DETAIL BELOW SILL  
INTERIOR WALL FRAMING AT COLUMNS  
SCALE: 1 1/2"=1'-0"



12 UNIVERSAL AND FAMILY WASHROOMS  
RECESSED TOILET PAPER HOLDER  
SCALE: 1 1/2"=1'-0"



12 UNIVERSAL AND FAMILY  
WASHROOMS RECESSED SHELF  
SCALE: 1 1/2"=1'-0"





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SECTION DETAILS

Scale  
AS NOTED

Project number  
23-025

Drawn By  
NCSR

Checked  
NEL

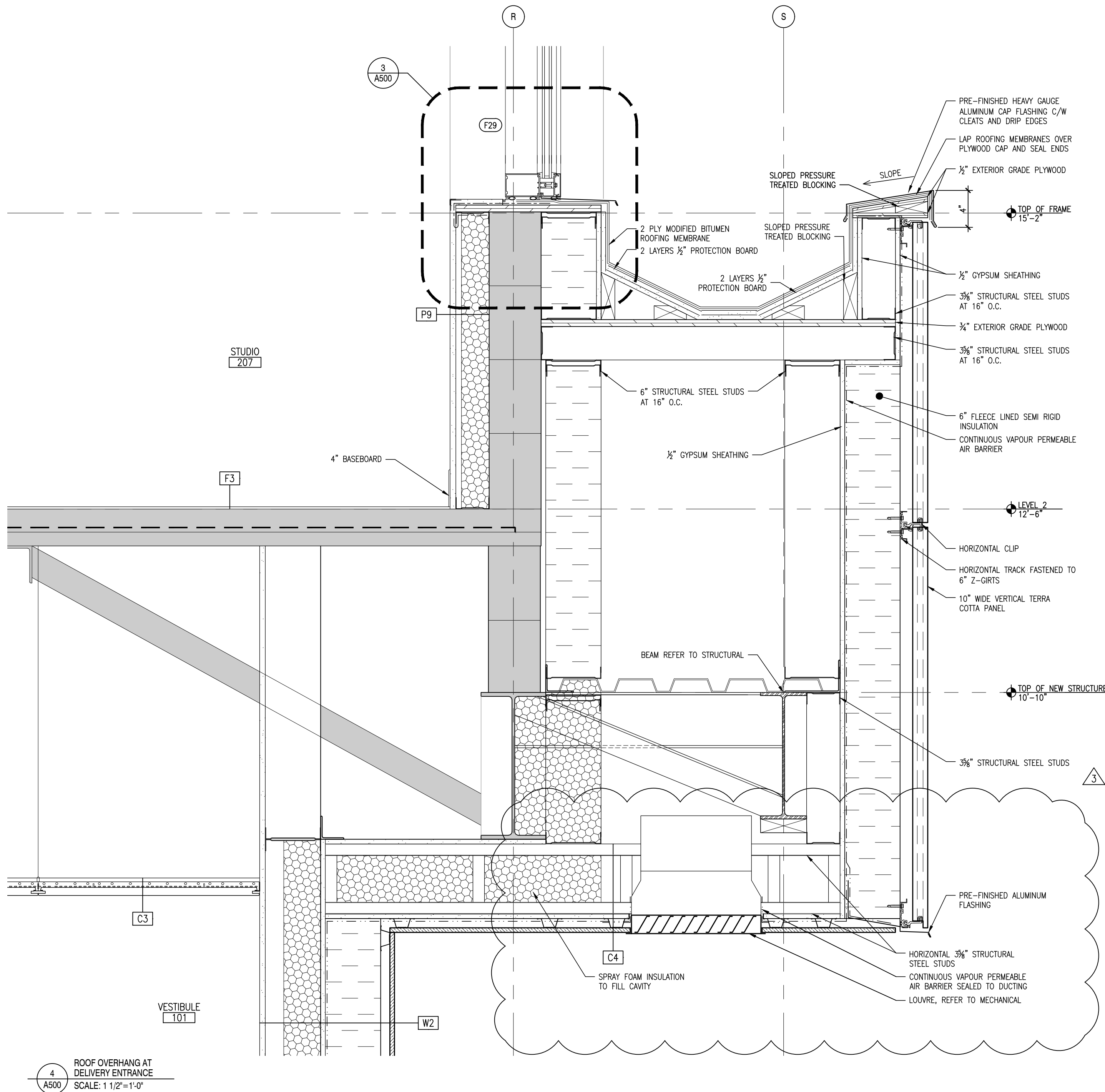
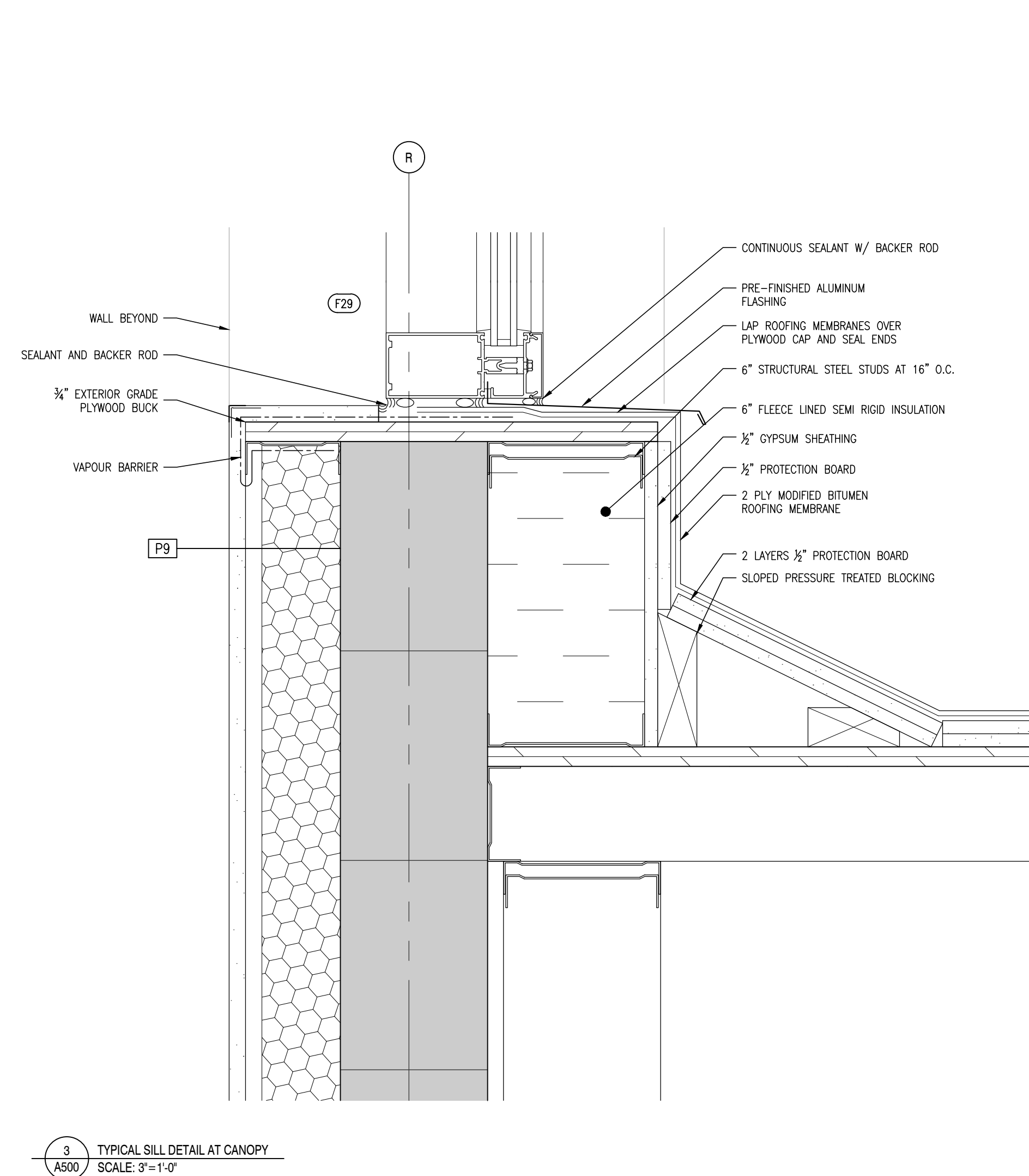
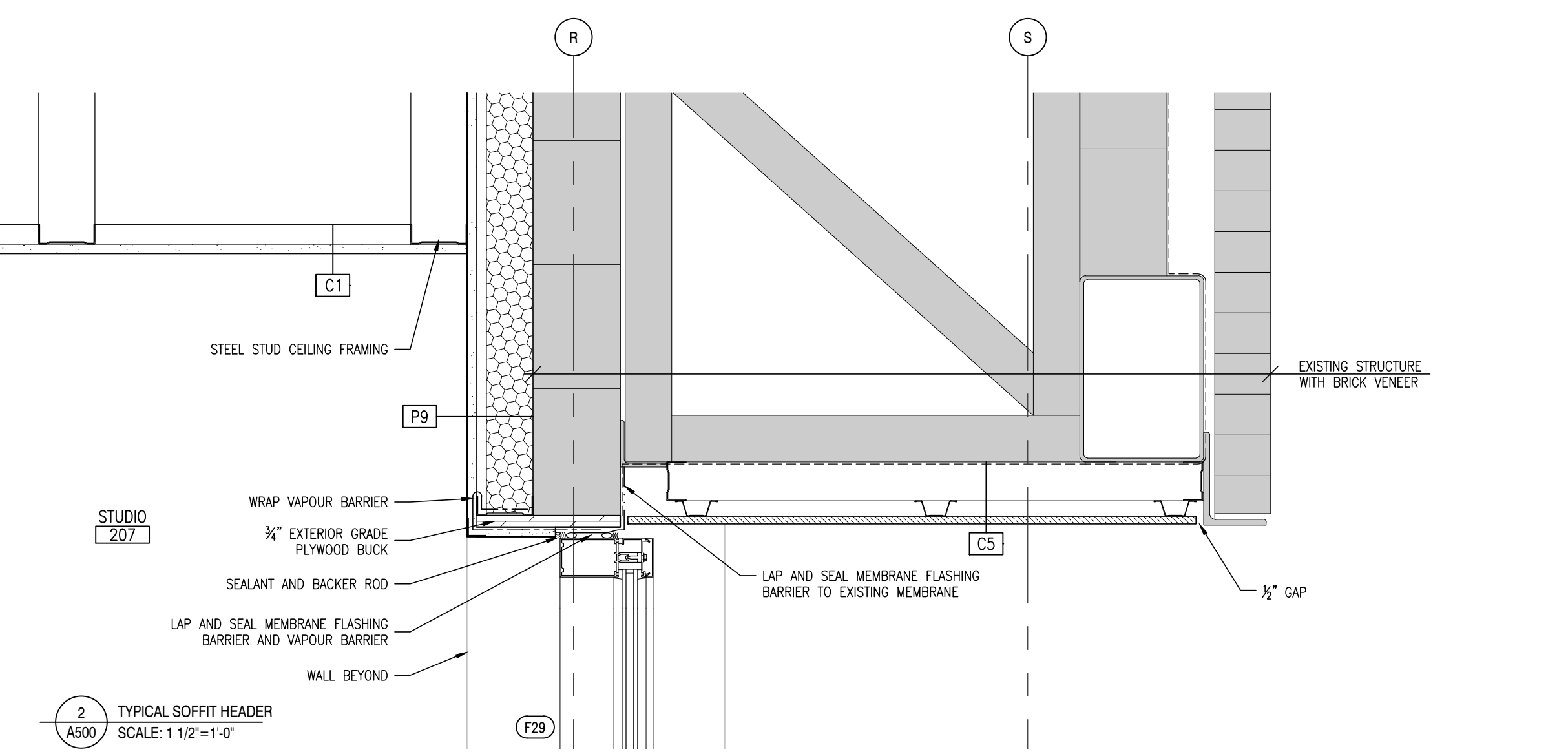
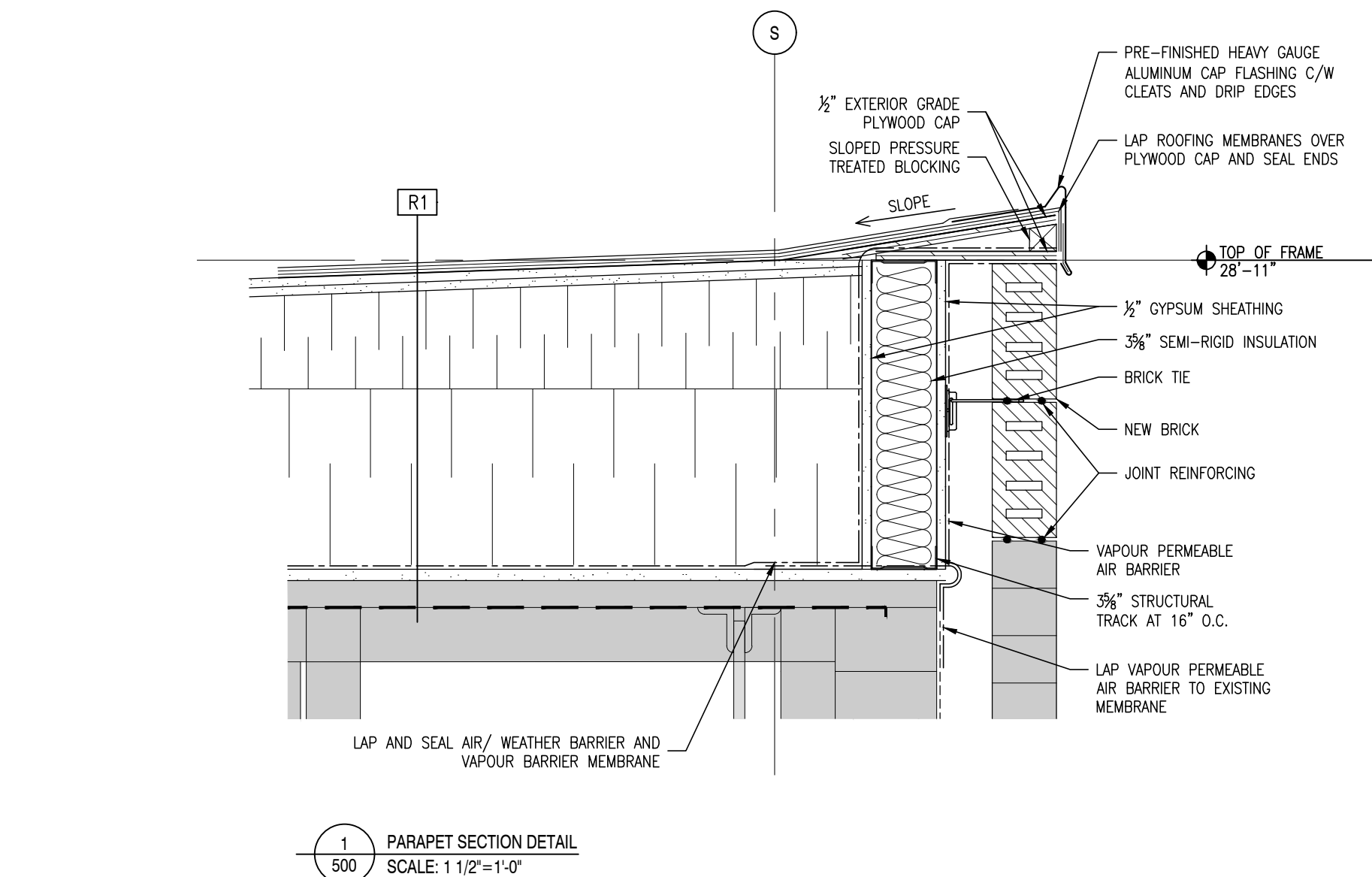
Approved  
ILL

SECTION DETAIL LEGEND

|  |                                                         |
|--|---------------------------------------------------------|
|  | AREA NOT IN SCOPE OF WORK                               |
|  | EXISTING BUILDING COMPONENTS                            |
|  | NEW DOOR AND FRAME                                      |
|  | NEW GLAZING                                             |
|  | EQUIPMENT IDENTIFIER                                    |
|  | ROOF IDENTIFIER REFER TO ASSEMBLIES SCHEDULE            |
|  | EXTERIOR WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE   |
|  | PARTITION IDENTIFIER REFER TO ASSEMBLIES SCHEDULE       |
|  | FOUNDATION WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE |

FIRE RATING LEGEND

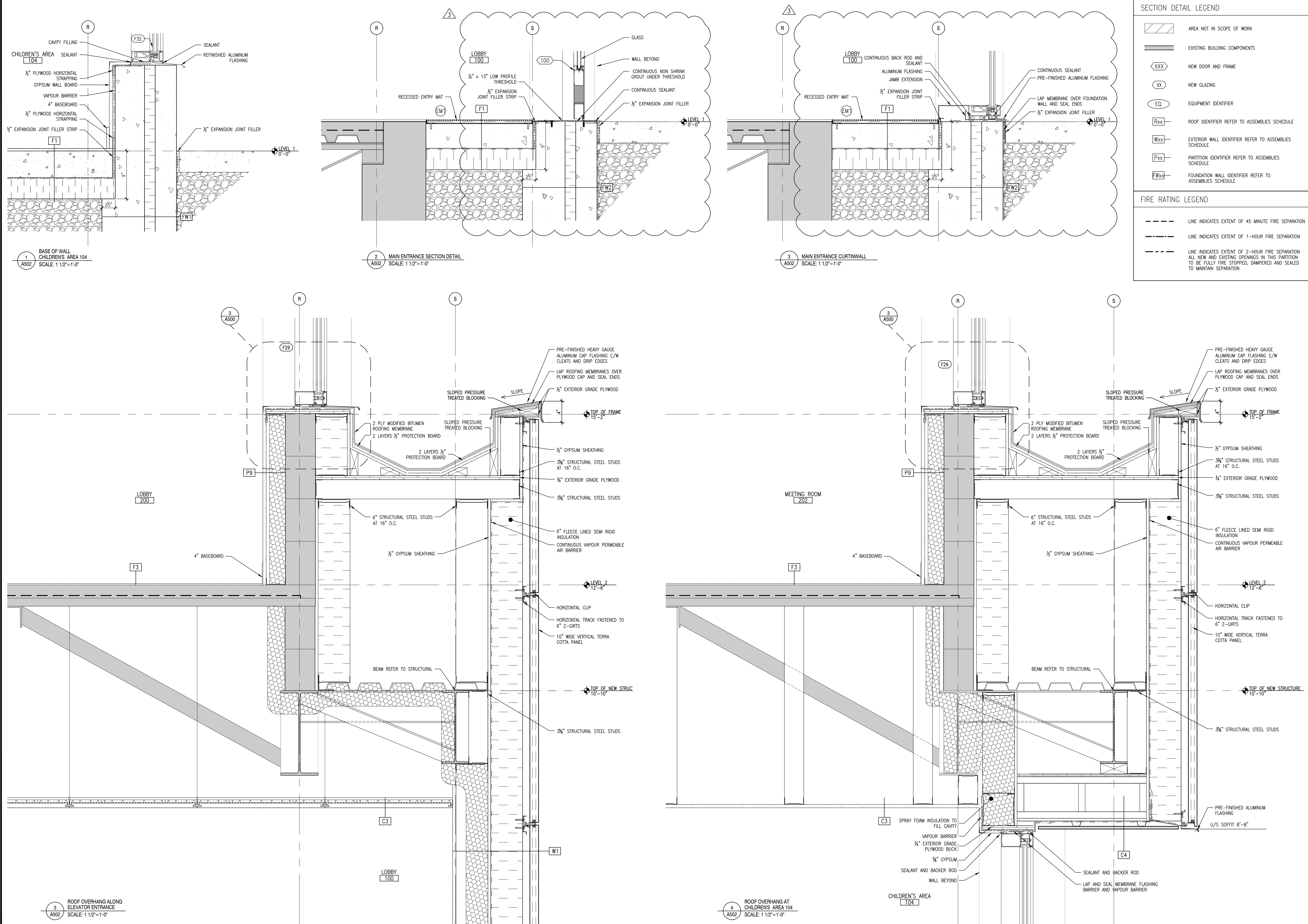
|  |                                                                                                                                                                               |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LINE INDICATES EXTENT OF 45 MINUTE FIRE SEPARATION                                                                                                                            |
|  | LINE INDICATES EXTENT OF 1-HOUR FIRE SEPARATION                                                                                                                               |
|  | LINE INDICATES EXTENT OF 2-HOUR FIRE SEPARATION<br>ALL NEW AND EXISTING OPENINGS IN THIS PARTITION<br>TO BE FULLY FIRE STOPPED, DAMPERED AND SEALED<br>TO MAINTAIN SEPARATION |







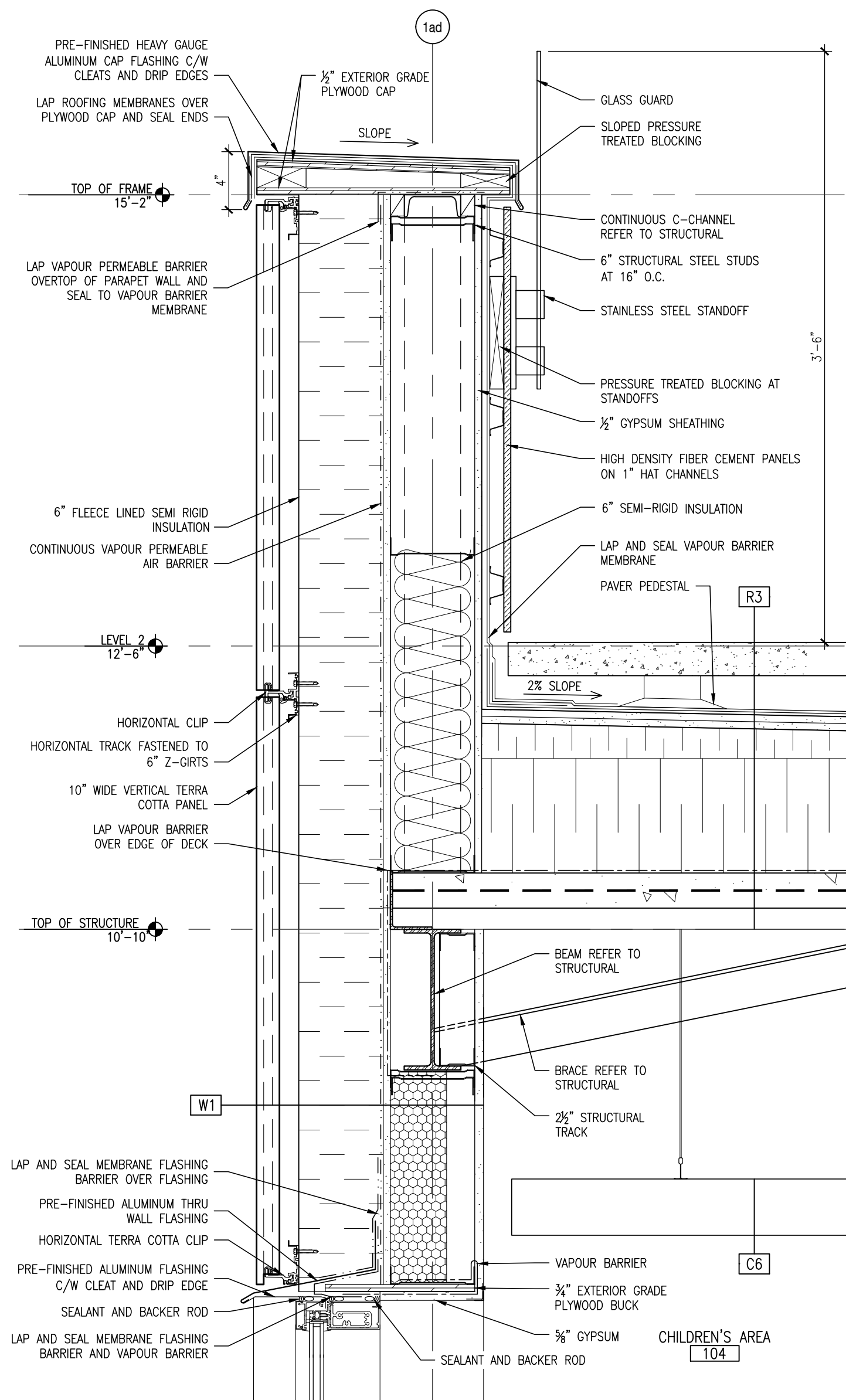
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| 2 ISSUED FOR ADDENDUM 03 | 2024-04-11 |
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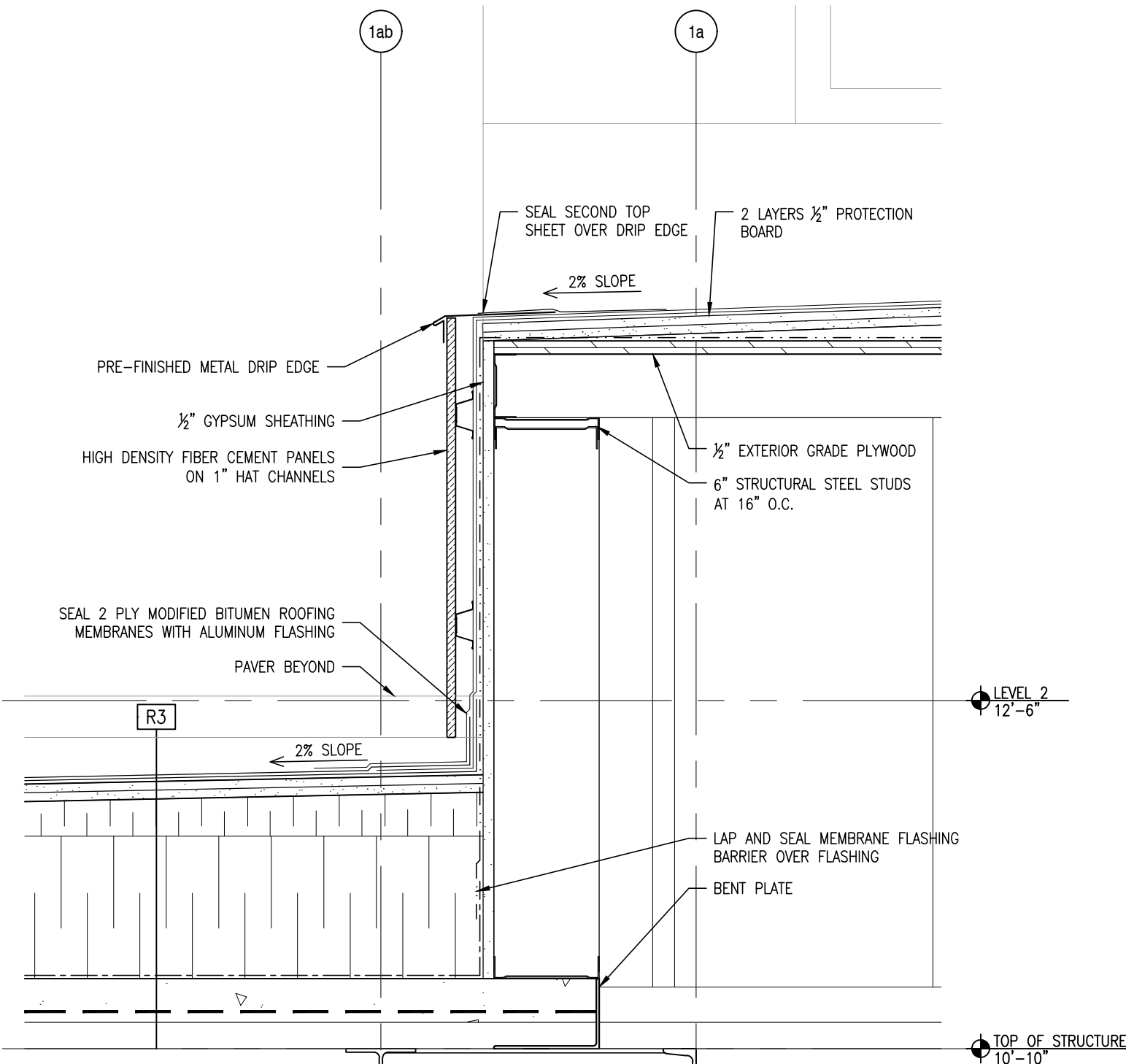




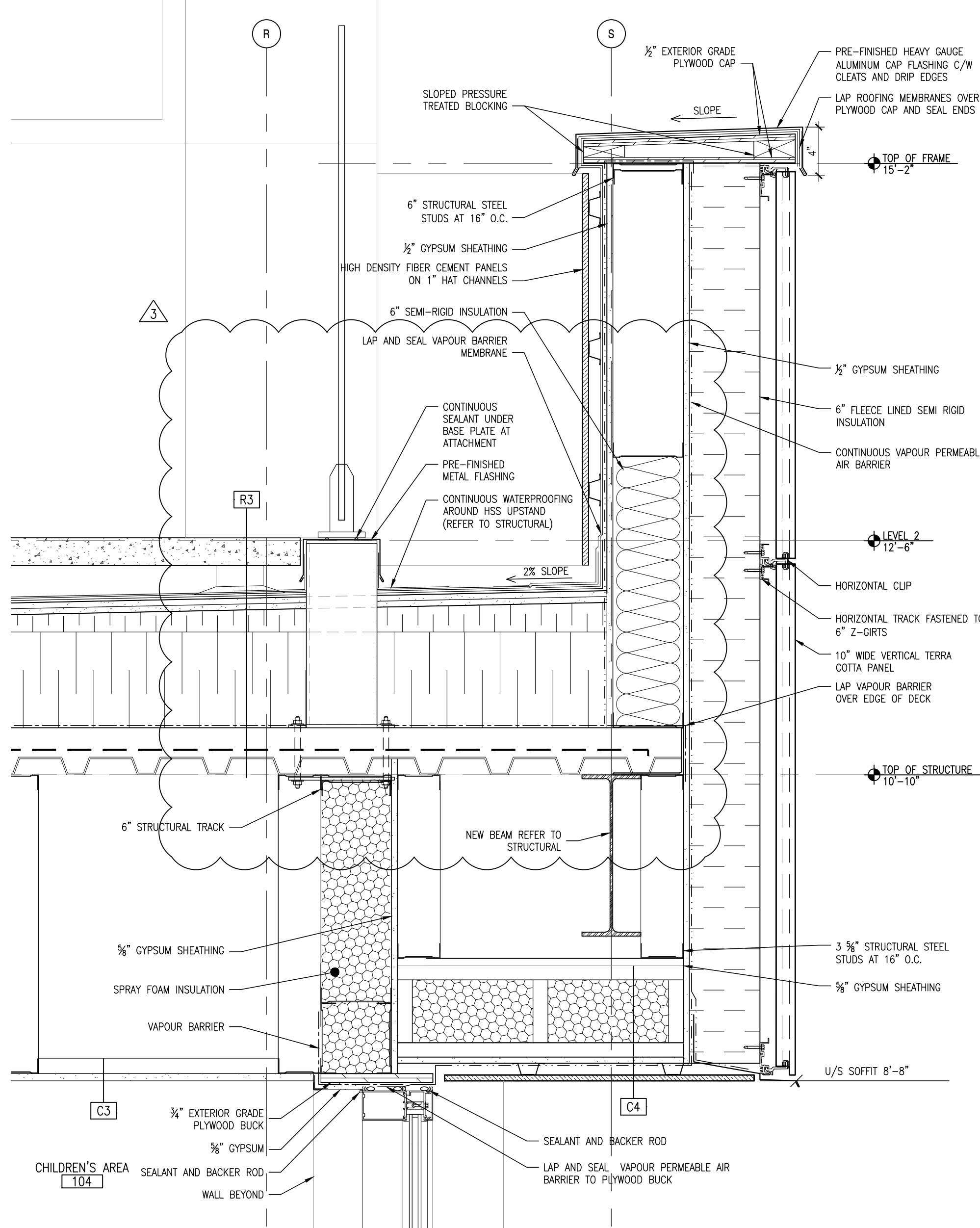
| NO. |                        | DATE       |
|-----|------------------------|------------|
| 1   | ISSUED FOR TENDER      | 2024-02-29 |
| 2   | ISSUED FOR ADDENDUM 03 | 2024-04-11 |
| 3   | ISSUED FOR ADDENDUM 04 | 2024-04-16 |



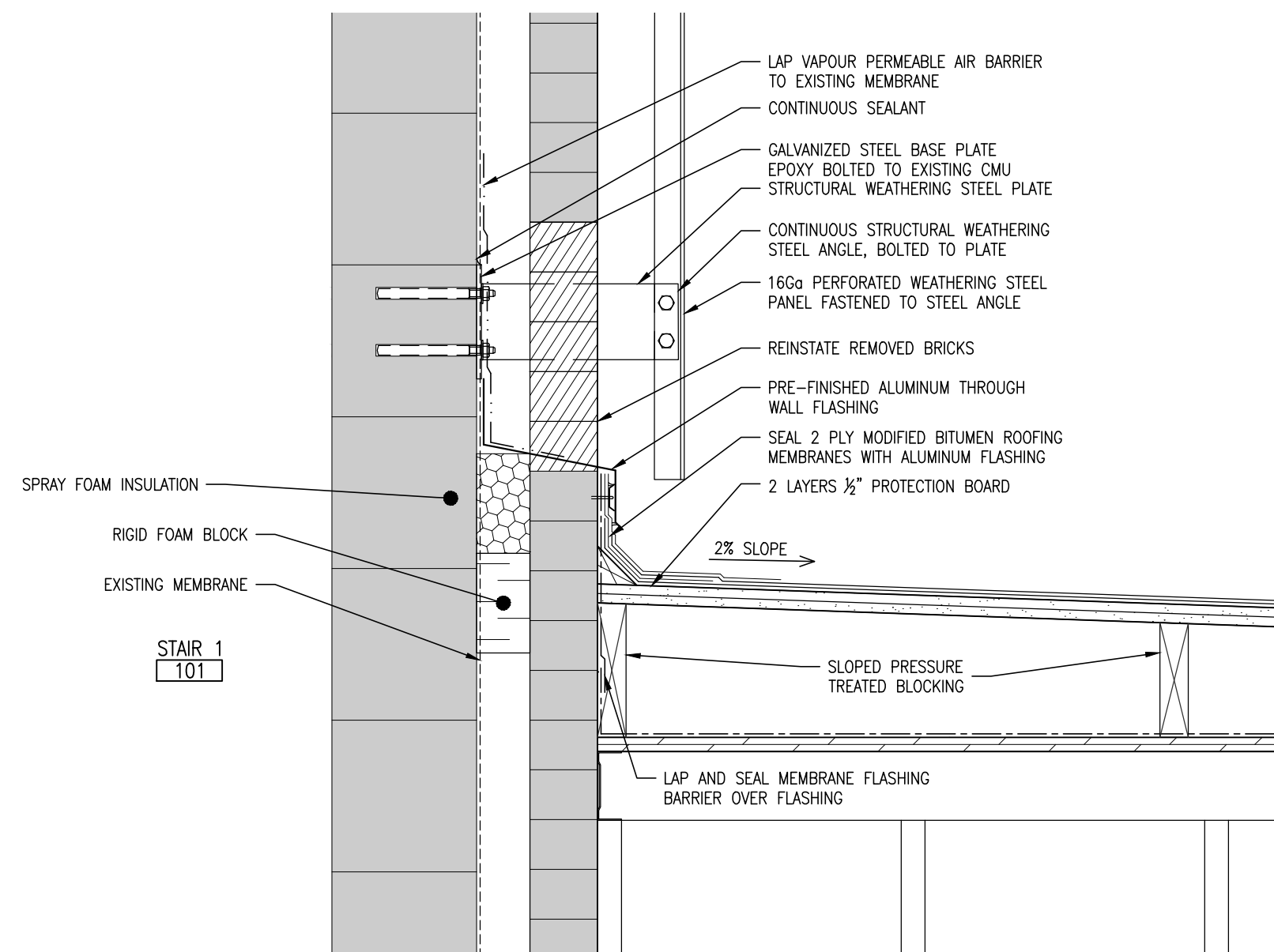
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A503  
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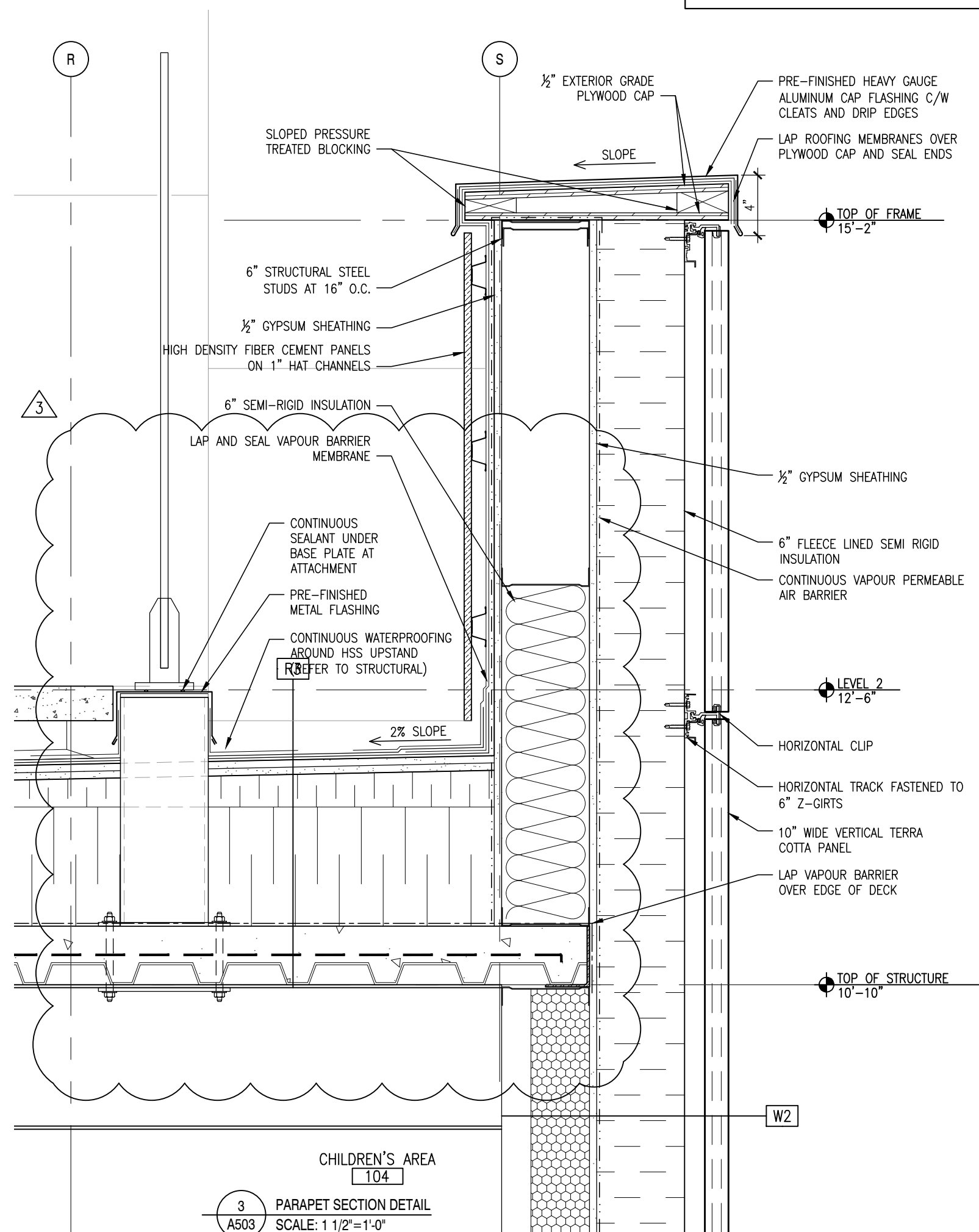
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SCALE: 1 1/2"=1'-0"



2  
A503  
SCALE: 1 1/2"=1'-0"



5  
A503  
SCALE: 1 1/2"=1'-0"



6  
A503  
SCALE: 1 1/2"=1'-0"

| FIRE RATING LEGEND |                                                    |
|--------------------|----------------------------------------------------|
| ---                | LINE INDICATES EXTENT OF 45 MINUTE FIRE SEPARATION |
| ---                | LINE INDICATES EXTENT OF 1-HOUR FIRE SEPARATION    |
| ---                | LINE INDICATES EXTENT OF 2-HOUR FIRE SEPARATION    |

| SECTION DETAIL LEGEND |                                                        |
|-----------------------|--------------------------------------------------------|
| ---                   | AREA NOT IN SCOPE OF WORK                              |
| ---                   | EXISTING BUILDING COMPONENTS                           |
| XXX                   | NEW DOOR AND FRAME                                     |
| XX                    | NEW GLAZING                                            |
| EO                    | EQUIPMENT IDENTIFIER                                   |
| Rxx                   | ROOF IDENTIFIER REFER TO ASSEMBLES SCHEDULE            |
| Wxx                   | EXTERIOR WALL IDENTIFIER REFER TO ASSEMBLES SCHEDULE   |
| Pxx                   | PARTITION IDENTIFIER REFER TO ASSEMBLES SCHEDULE       |
| FWxx                  | FOUNDATION WALL IDENTIFIER REFER TO ASSEMBLES SCHEDULE |





| NO.                      | DATE       |
|--------------------------|------------|
| 1 ISSUED FOR TENDER      | 2024-02-29 |
| 2 ISSUED FOR ADDENDUM 03 | 2024-04-11 |
| 3 ISSUED FOR ADDENDUM 04 | 2024-04-16 |

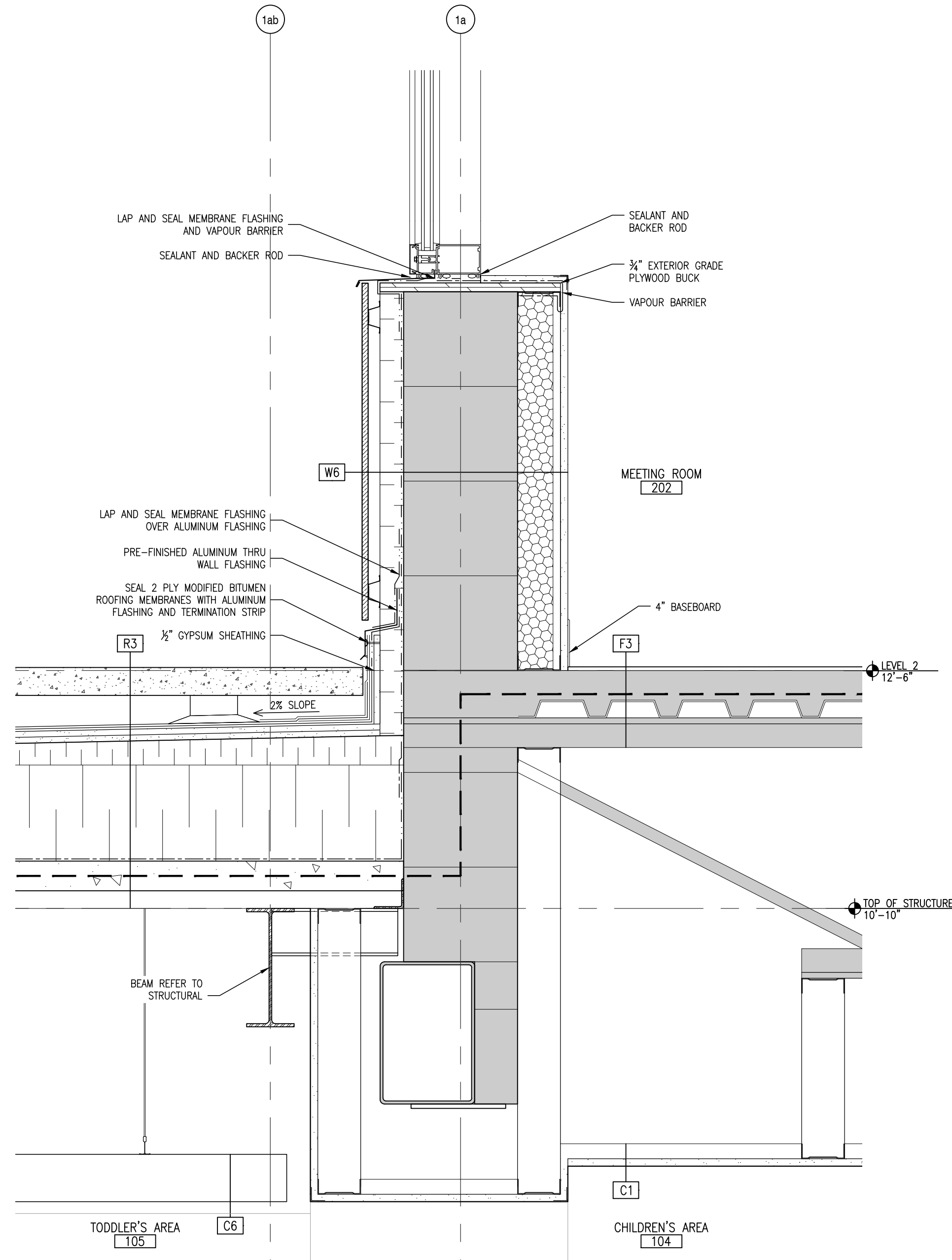
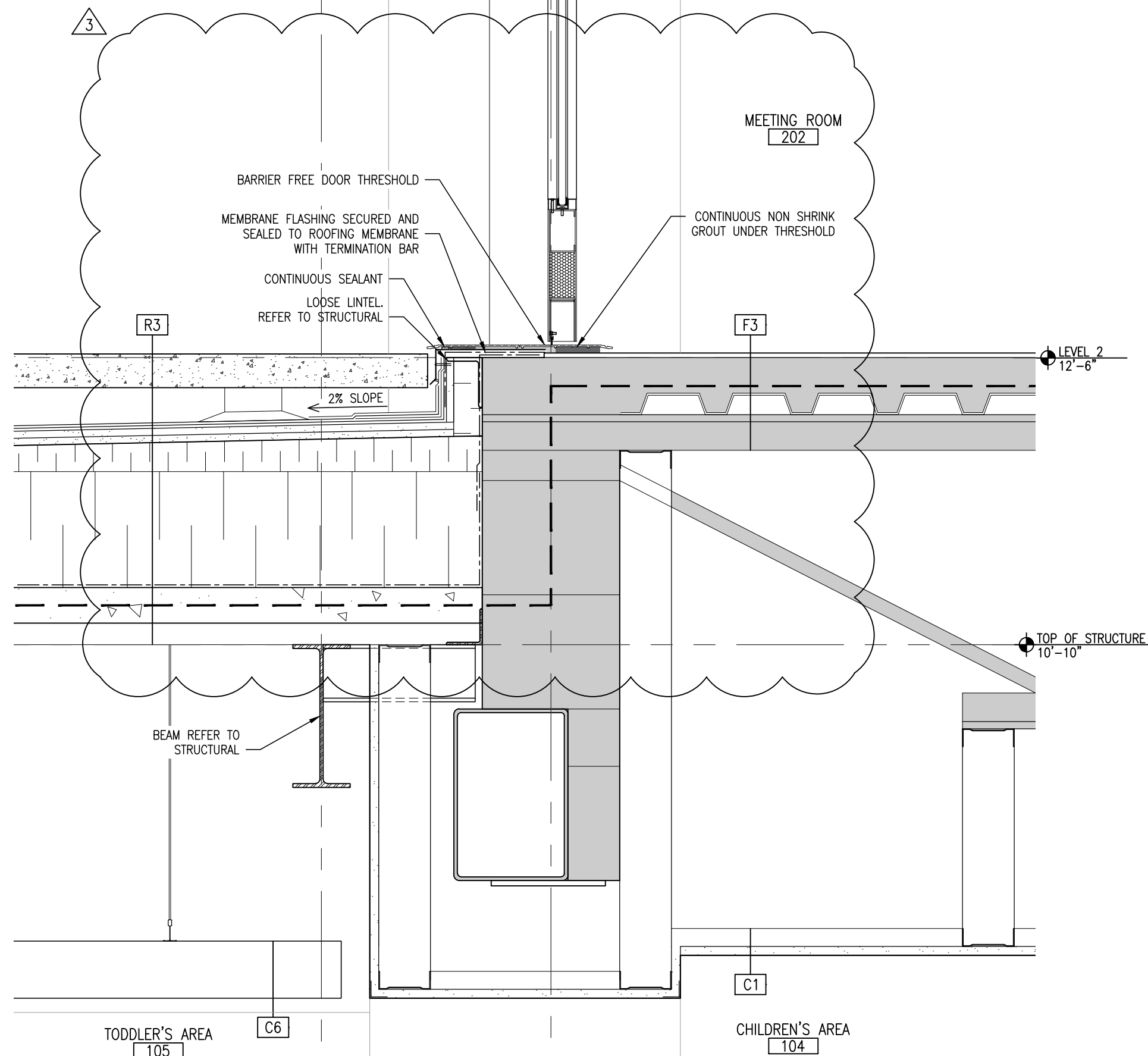
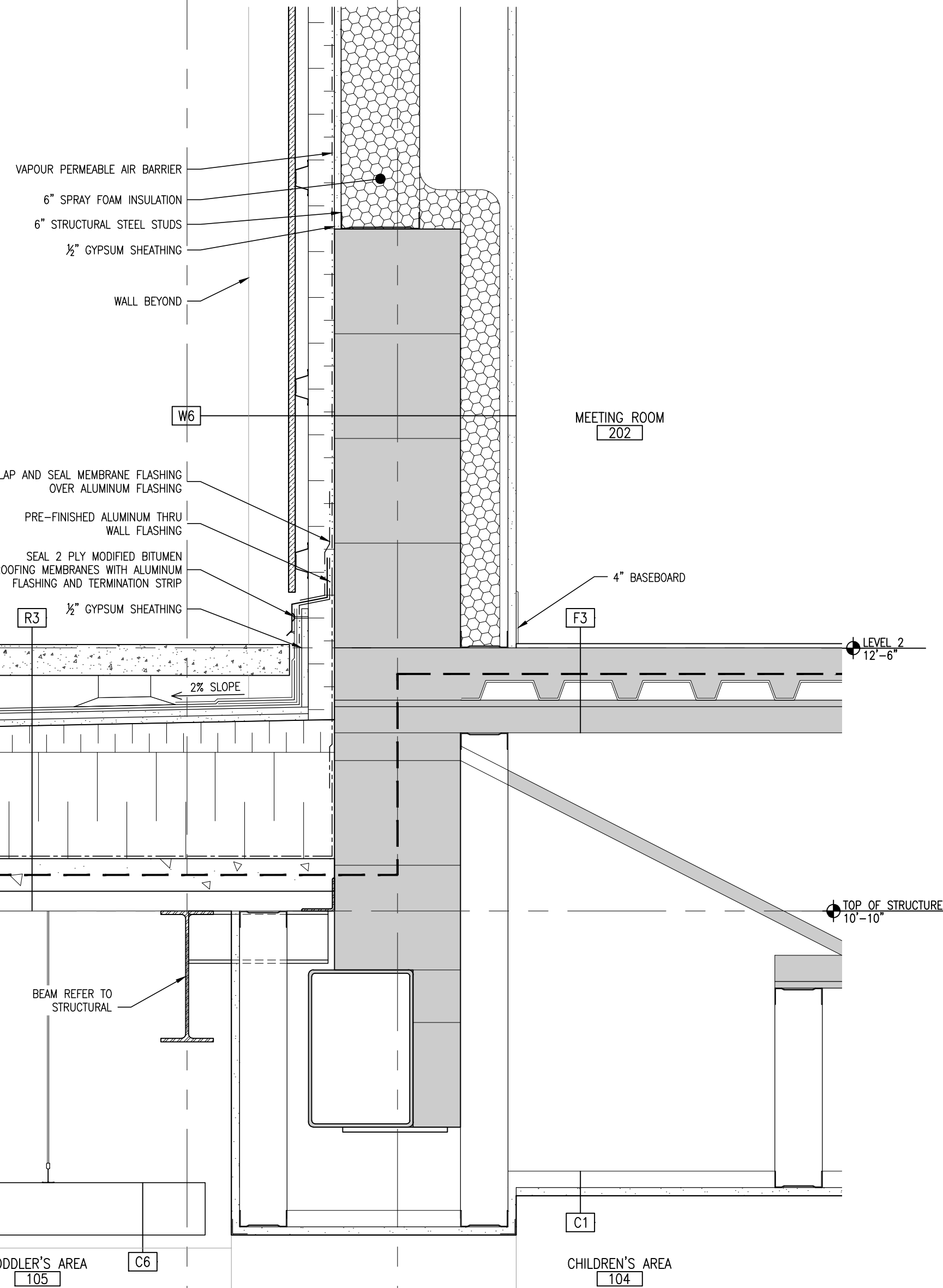
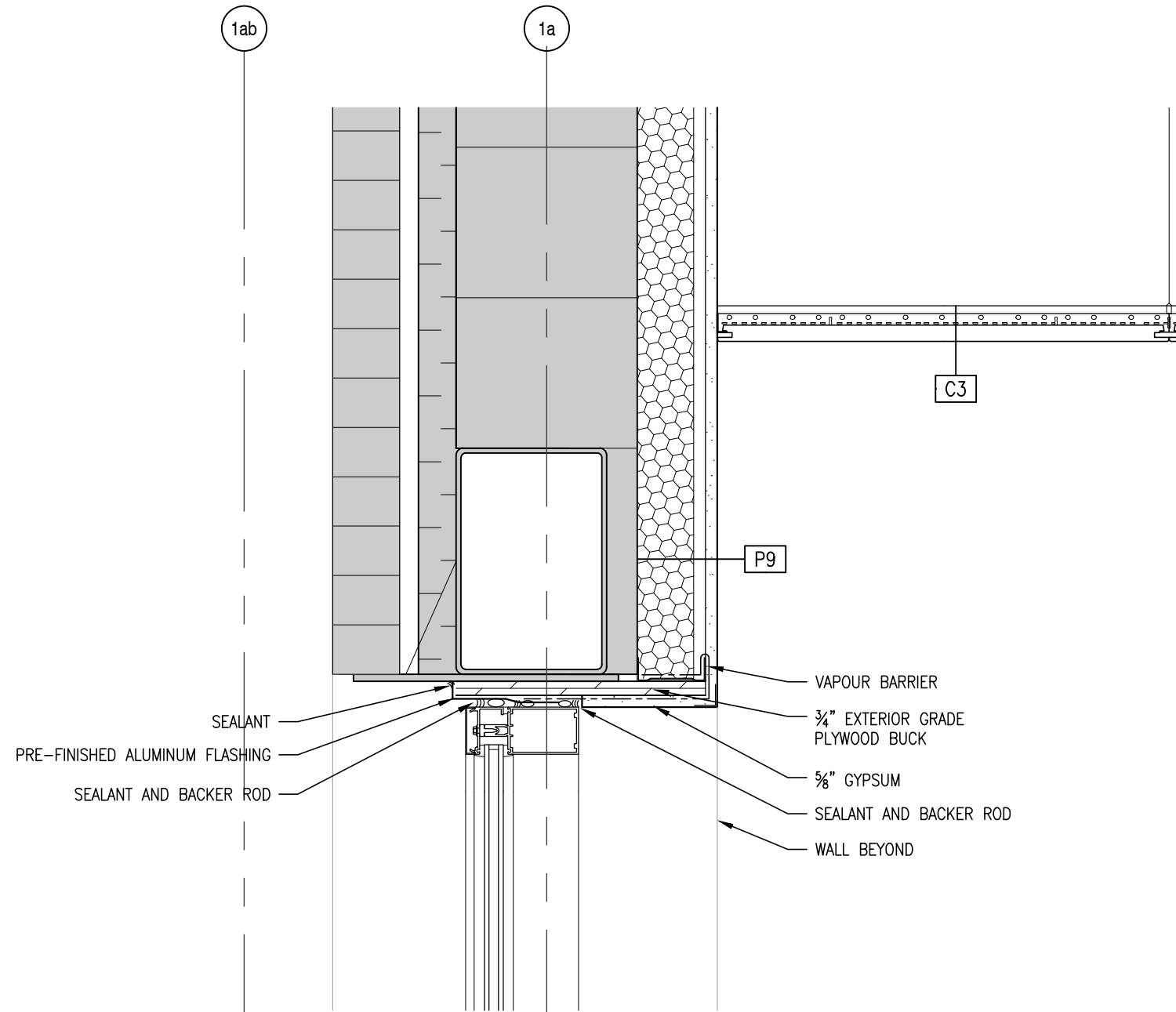
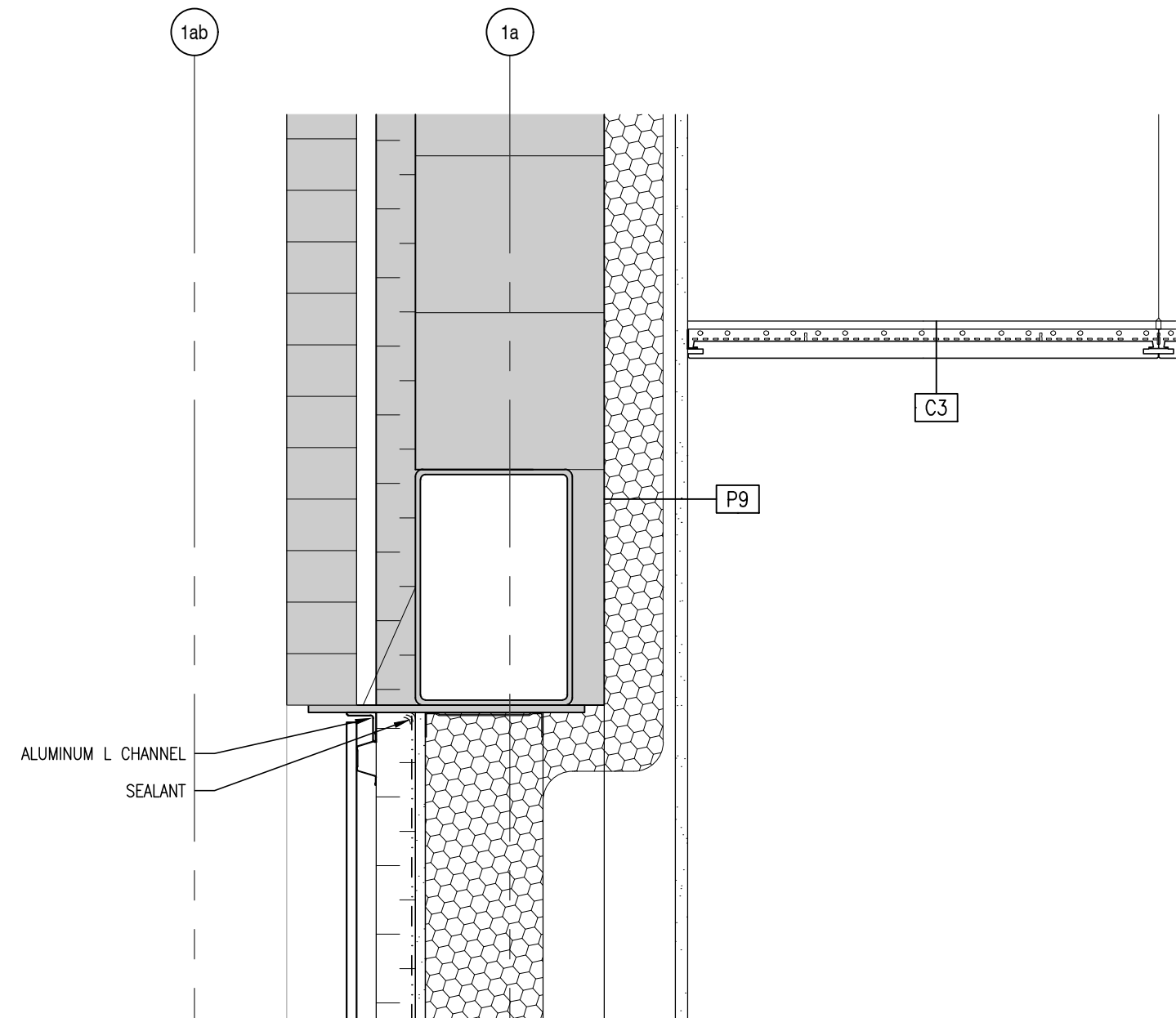
SECTION DETAILS

SECTION DETAIL LEGEND

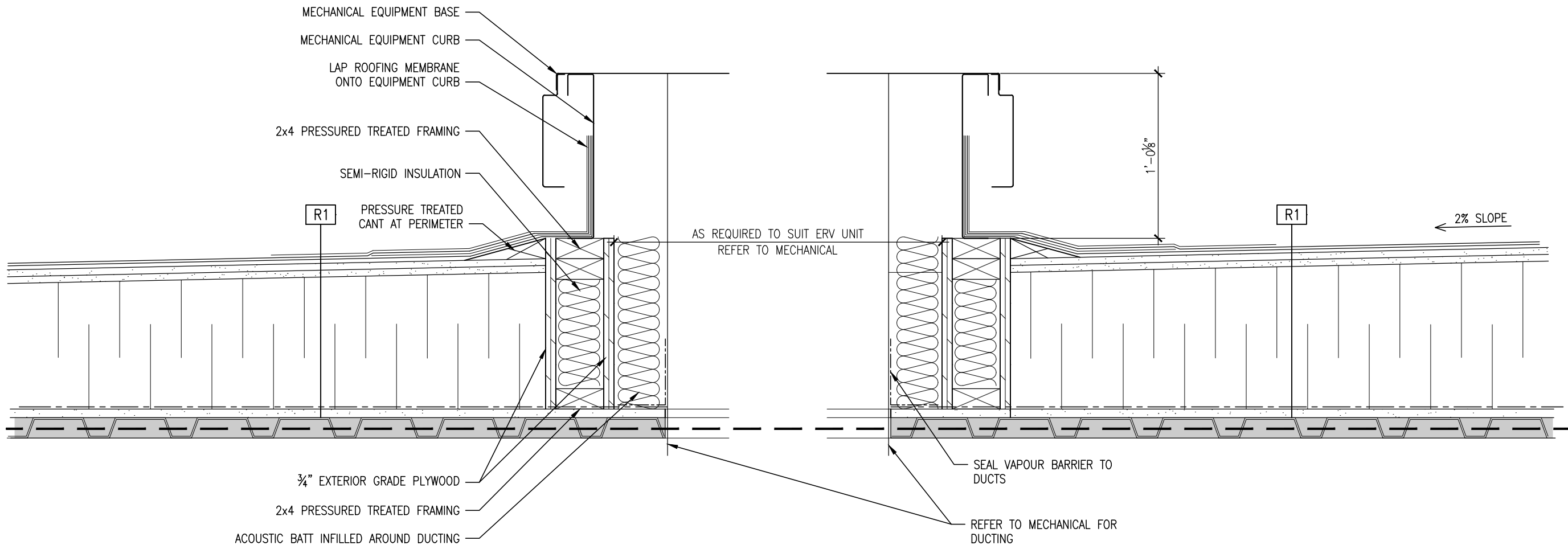
|  |                                                         |
|--|---------------------------------------------------------|
|  | AREA NOT IN SCOPE OF WORK                               |
|  | EXISTING BUILDING COMPONENTS                            |
|  | NEW DOOR AND FRAME                                      |
|  | NEW GLAZING                                             |
|  | EQUIPMENT IDENTIFIER                                    |
|  | ROOF IDENTIFIER REFER TO ASSEMBLIES SCHEDULE            |
|  | EXTERIOR WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE   |
|  | PARTITION IDENTIFIER REFER TO ASSEMBLIES SCHEDULE       |
|  | FOUNDATION WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE |

FIRE RATING LEGEND

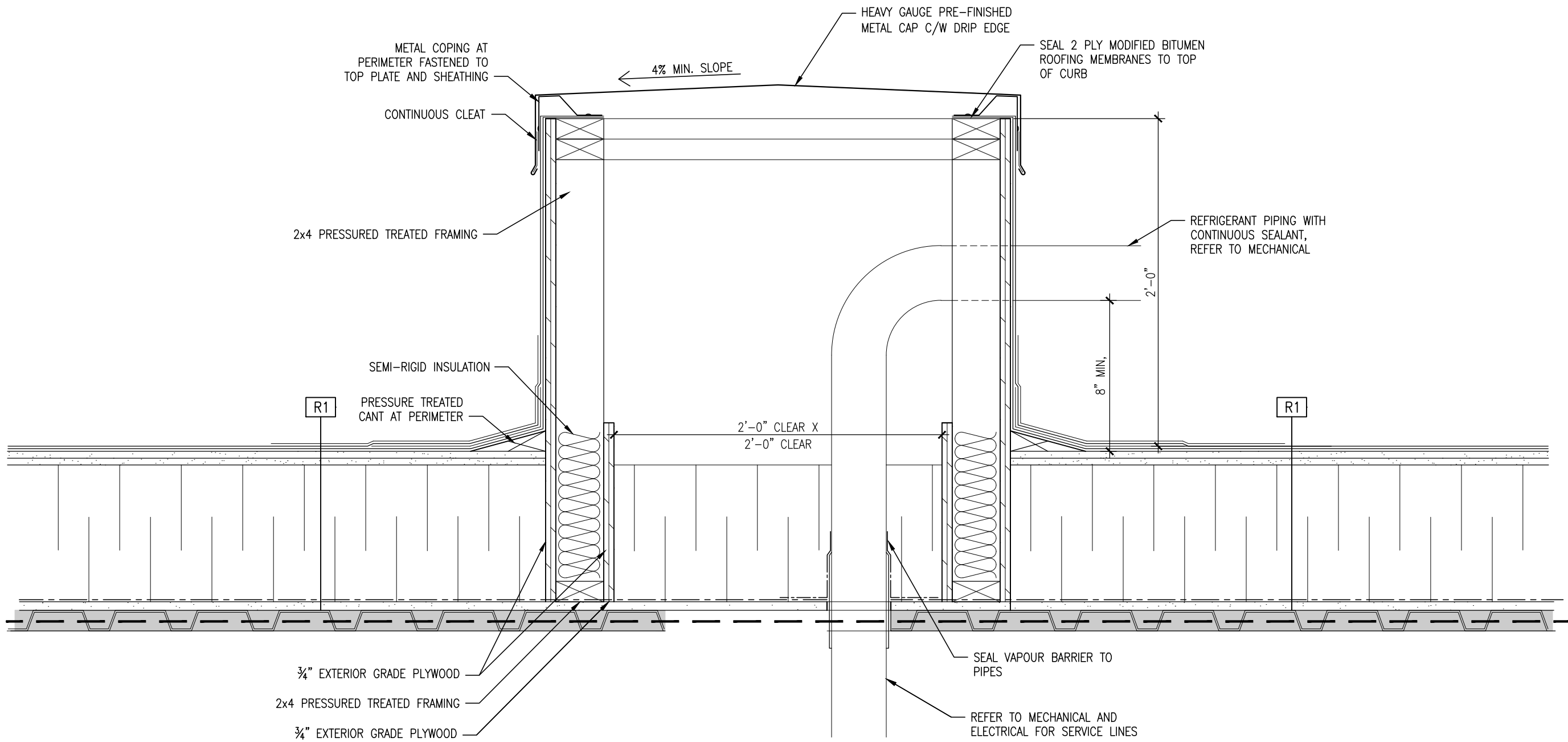
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|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LINE INDICATES EXTENT OF 45 MINUTE FIRE SEPARATION                                                                                                                            |
|  | LINE INDICATES EXTENT OF 1-HOUR FIRE SEPARATION                                                                                                                               |
|  | LINE INDICATES EXTENT OF 2-HOUR FIRE SEPARATION<br>ALL NEW AND EXISTING OPENINGS IN THIS PARTITION<br>TO BE FULLY FIRE STOPPED, DAMPERED AND SEALED<br>TO MAINTAIN SEPARATION |



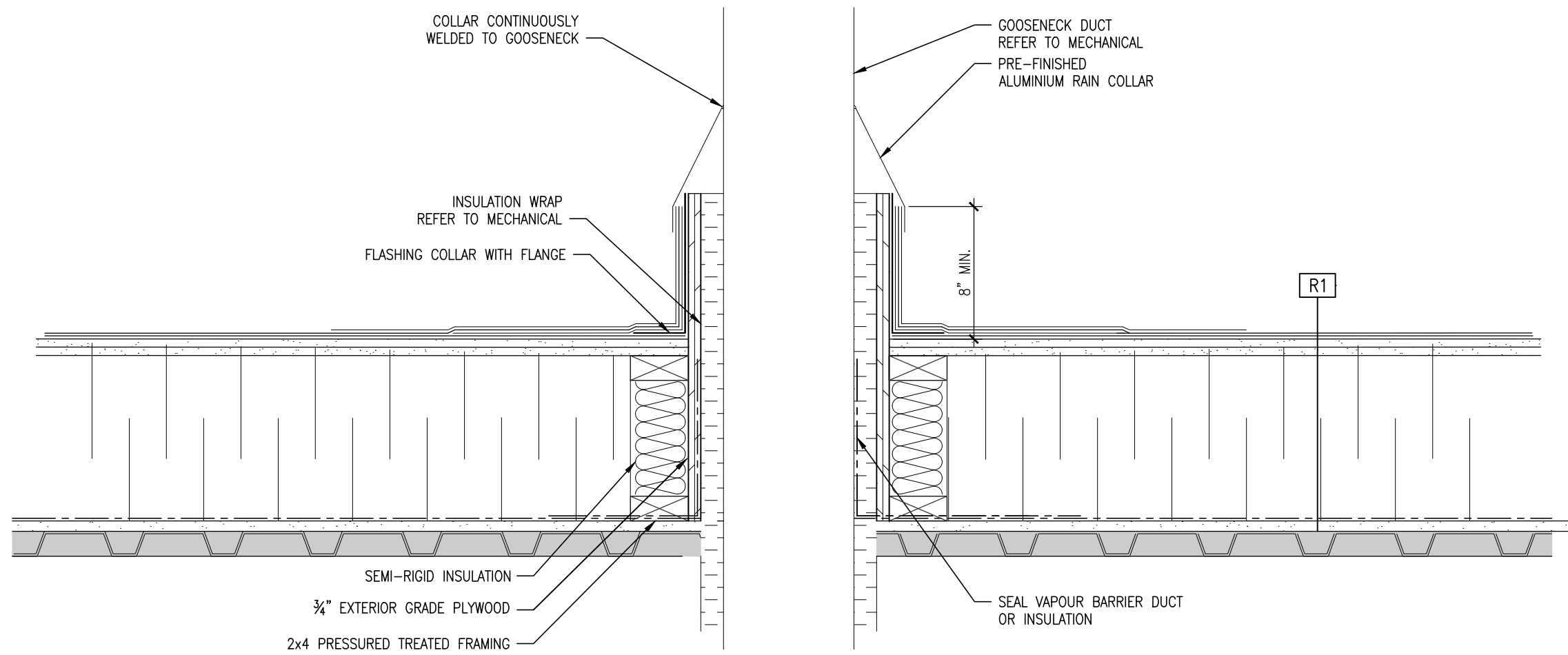




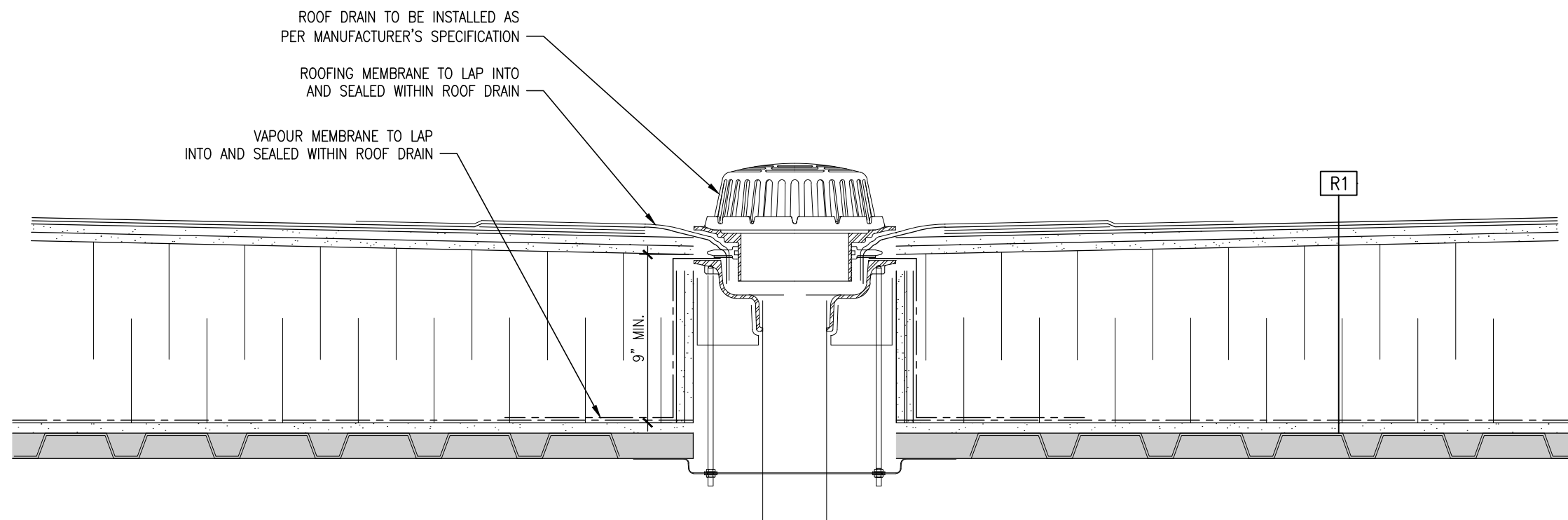
7  
A509  
ROOF CURB FOR MECHANICAL EQUIPMENT  
SCALE: 1 1/2"=1'-0"



7  
A509  
SMALL ROOF ENCLOSURE FOR MECHANICAL SERVICES  
SCALE: 1 1/2"=1'-0"



7  
A509  
ROOF AT GOOSENECK  
SCALE: 1 1/2"=1'-0"



7  
A509  
TYPICAL ROOF DRAIN  
SCALE: 1 1/2"=1'-0"

#### SECTION DETAIL LEGEND

|  |                                                         |
|--|---------------------------------------------------------|
|  | AREA NOT IN SCOPE OF WORK                               |
|  | EXISTING BUILDING COMPONENTS                            |
|  | NEW DOOR AND FRAME                                      |
|  | NEW GLAZING                                             |
|  | EQUIPMENT IDENTIFIER                                    |
|  | ROOF IDENTIFIER REFER TO ASSEMBLIES SCHEDULE            |
|  | EXTERIOR WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE   |
|  | PARTITION IDENTIFIER REFER TO ASSEMBLIES SCHEDULE       |
|  | FOUNDATION WALL IDENTIFIER REFER TO ASSEMBLIES SCHEDULE |

#### FIRE RATING LEGEND

|  |                                                                                                                                                                               |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LINE INDICATES EXTENT OF 45 MINUTE FIRE SEPARATION                                                                                                                            |
|  | LINE INDICATES EXTENT OF 1-HOUR FIRE SEPARATION                                                                                                                               |
|  | LINE INDICATES EXTENT OF 2-HOUR FIRE SEPARATION<br>ALL NEW AND EXISTING OPENINGS IN THIS PARTITION<br>TO BE FULLY FIRE STOPPED, DAMPERED AND SEALED<br>TO MAINTAIN SEPARATION |

Fathom

Fathom Studio  
fathomstudio.ca

40 King St  
Dartmouth, NS  
B2Y 2R4

BMR Structural Engineering

Halifax, Nova Scotia

M&R Engineering

Halifax, Nova Scotia

DesignPoint Engineering & Surveying

Halifax, Nova Scotia

Client

TOWN OF NEW GLASGOW

Key Plan

Scale: N.T.S.

Seal



#### Revisions

| NO. |                        | DATE       |
|-----|------------------------|------------|
| 1   | ISSUED FOR TENDER      | 2024-02-29 |
| 2   | ISSUED FOR ADDENDUM 03 | 2024-04-11 |
| 3   | ISSUED FOR ADDENDUM 04 | 2024-04-16 |

#### Project

NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

#### SECTION DETAILS

Scale  
AS NOTED

Project number  
23-025

Drawn By

NCSR

Checked

NEL

Approved

ILL

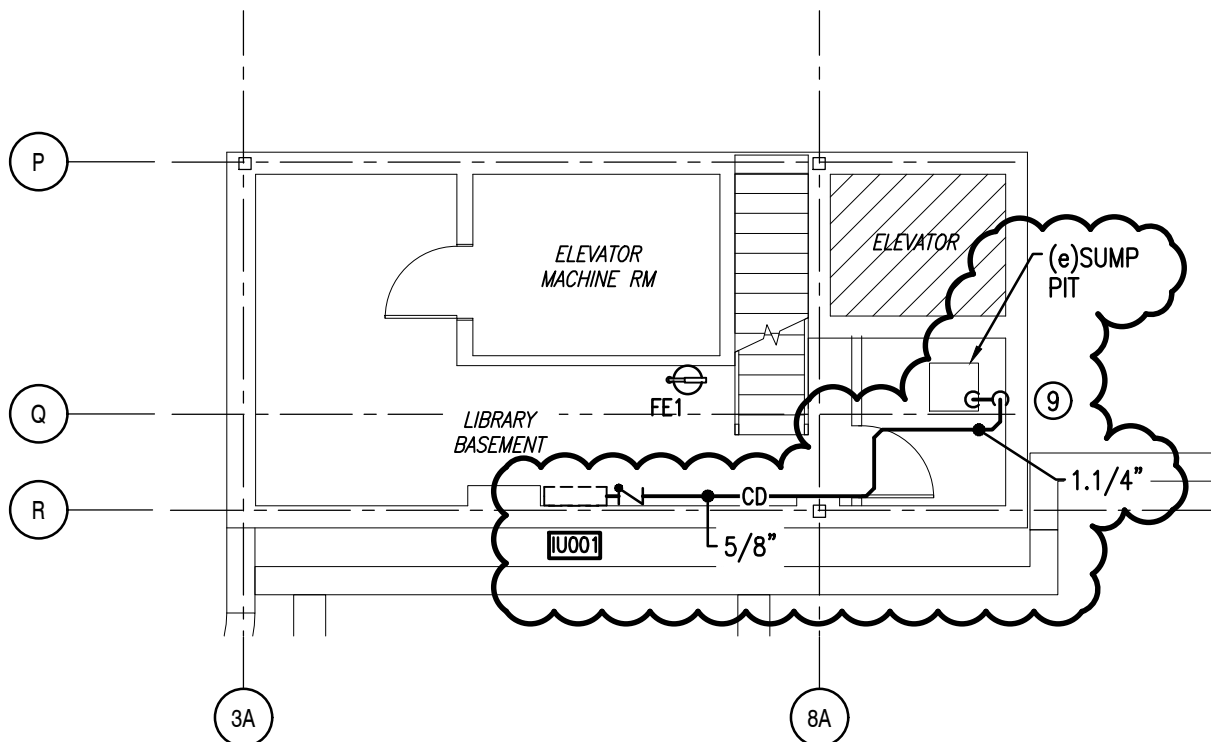
Drawing Number

A511

⑦ TIE NEW 3" RWL INTO (e)3" RWL IN APPROX. LOCATION SHOWN.

⑧ RUN CONDENSATE FROM HWI TO NEAREST FED

⑨ RUN 1.1/4" CONDENSATE DOWN ALONG WALL TO SUMP PIT



2

MP104

## PLUMBING – SANITARY – BASEMENT – NEW WORK

SCALE: 1/8"=1'-0"

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS



**M&R ENGINEERING LIMITED**

2717 Joseph Howe Dr, Suite 300, Halifax, NS, B3L 4T9  
Tel: (902) 422-7393, Fax: (902) 423-4945  
Website: www.mreng.ca

PROJECT:

NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION  
182 DALHOUSIE STREET, NEW GLASGOW, NS

TITLE:

**PLUMBING –  
BASEMENT REVISIONS**

**MP104**

SCALE:

AS NOTED

DATE:

11/04/24

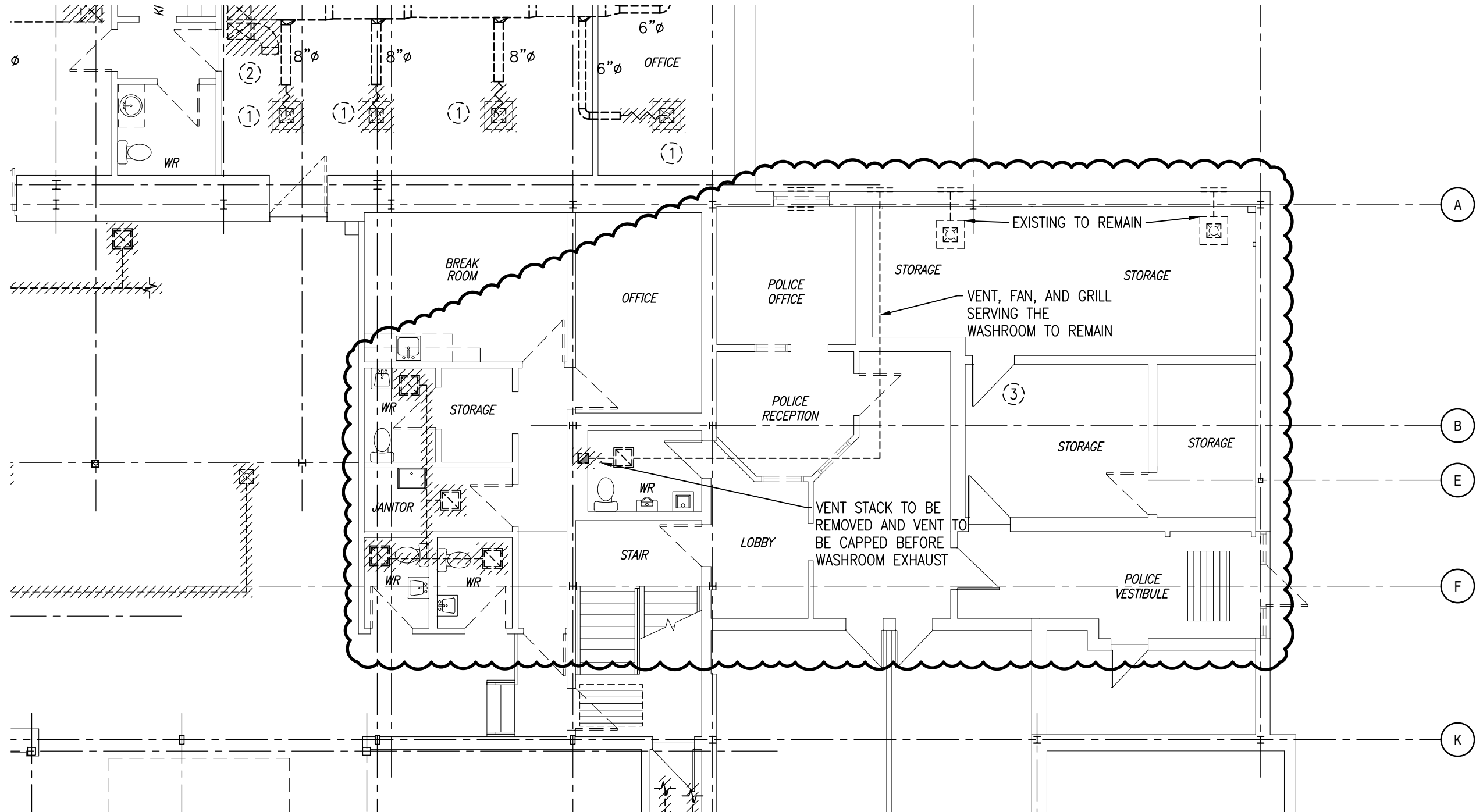
JOB NO.:

23-059

DWG. NO.:

**MSK-01**

This drawing is not to be scaled



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STAMP:

PROJECT:

**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:

**VENTILATION EXISTING  
LEVEL 1 REVISIONS**

SCALE:

**AS NOTED**

DATE:

**11/04/2024**

JOB NO.:

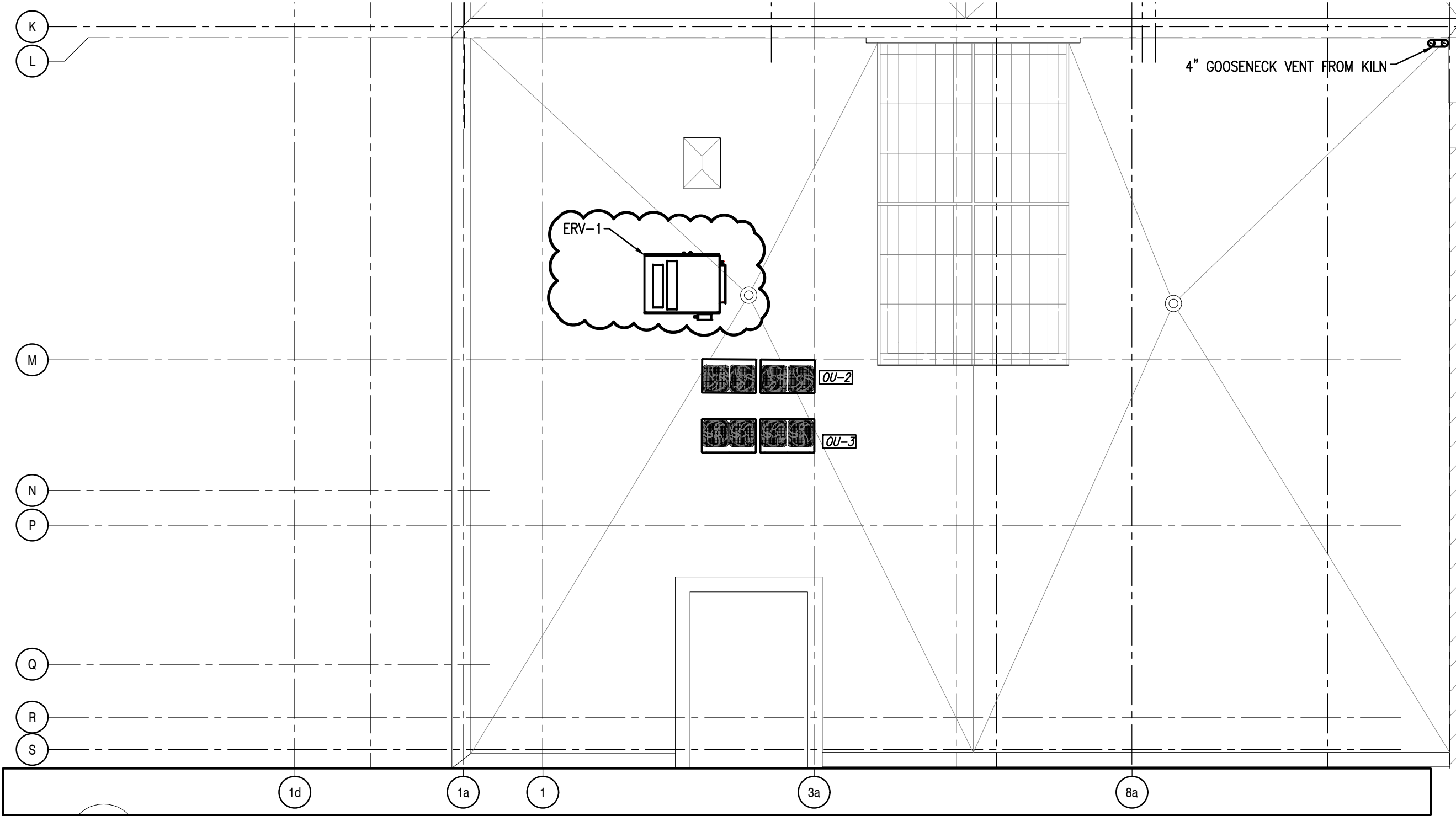
**23-025**

DWG. NO.:

**MSK02**



P:\23-059 New Glasgow Library Renovation\Sketch\MSK3 Roof New Ventilation Revisions.dwg April 10, 2024 1:37:33 PM



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PROJECT:  
**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:  
**VENTILATION NEW  
ROOF REVISIONS**

SCALE:  
**AS NOTED**  
DATE:  
11/04/2024  
JOB NO.:  
23-025

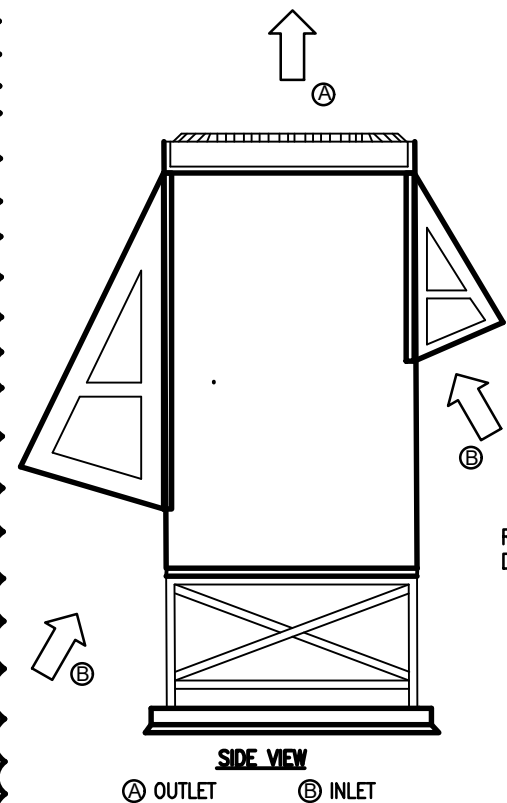
DWG. NO.:  
**MSK03**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

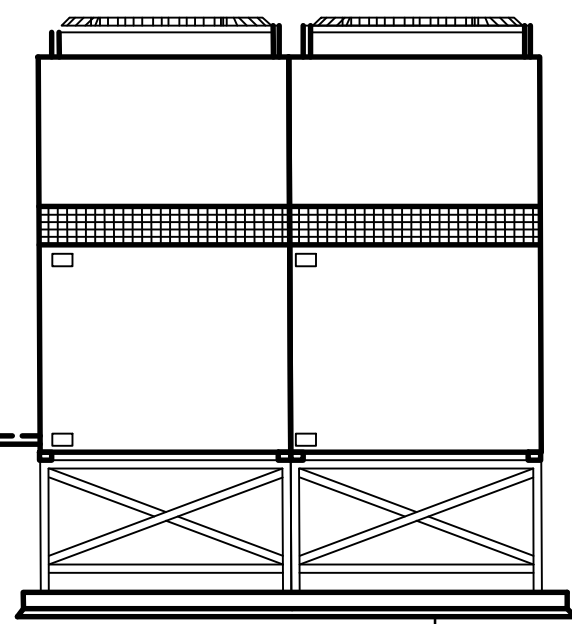
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REF. PIPING TO DOGHOUSE

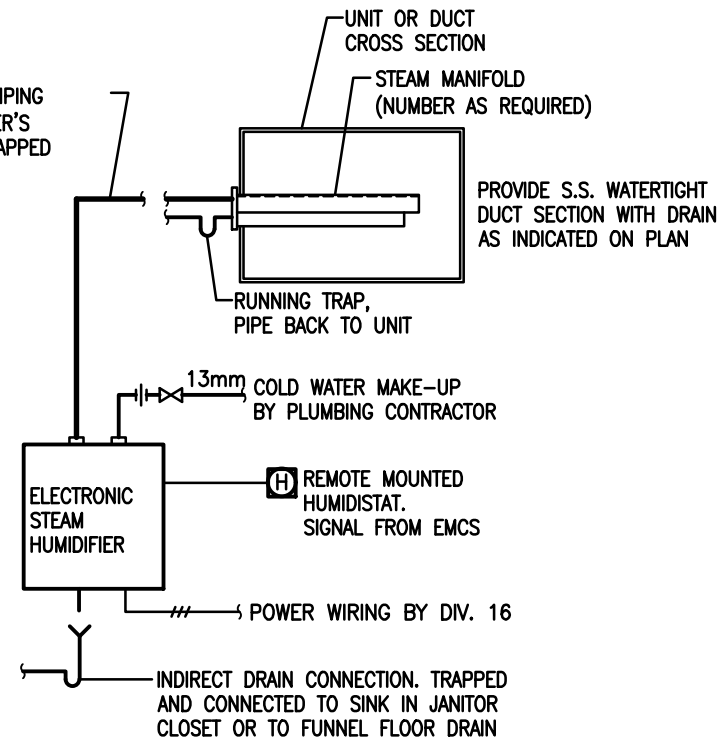


ROOF SLEEPER FLASHED INTO EXISTING ROOF

NOTES:  
2. DISCONNECT SWITCH AND POWER BY DIV. 26

**6** CU ROOF CURB AND WEATHER COUNTERMEASURE  
MV501  
N.T.S.

STEAM AND CONDENSATE PIPING RUN AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE TRAPPED DRAINS AT LOW POINTS IN STEAM PIPING



**7** STEAM HUMIDIFIER DETAIL  
MV501  
N.T.S.



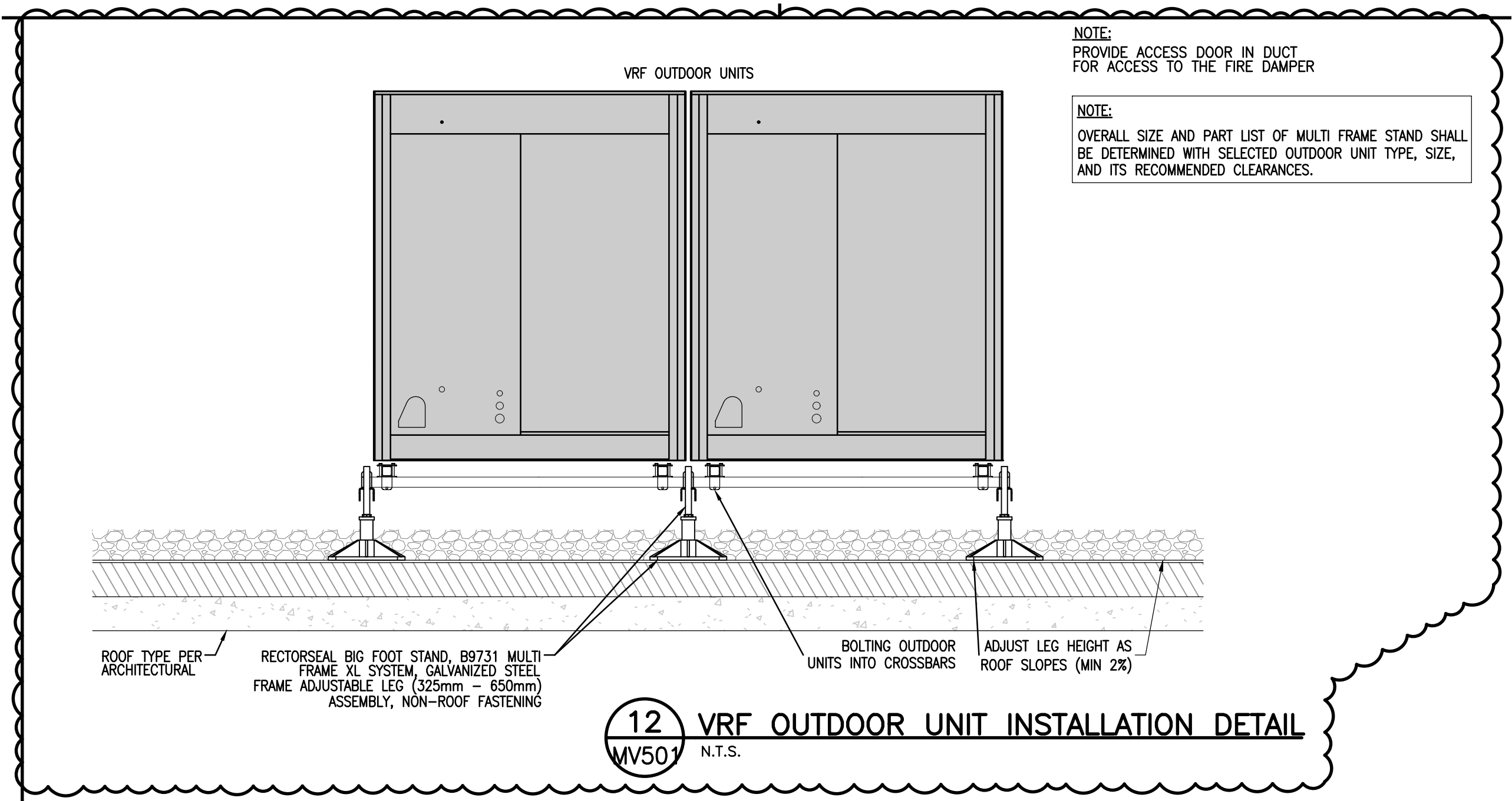
**M&R ENGINEERING LIMITED**  
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Tel: (902) 422-7393, Fax: (902) 423-4945  
Website: www.mreng.ca

|           |                                                                                                  |            |
|-----------|--------------------------------------------------------------------------------------------------|------------|
| STAMP:    | PROJECT:                                                                                         | SCALE:     |
|           | NEW GLASGOW LIBRARY AND PARL<br>HEADQUARTERS REVITALIZATION<br>182 DALHOUSIE ST, NEW GLASGOW, NS | AS NOTED   |
|           |                                                                                                  | DATE:      |
|           |                                                                                                  | 11/04/2024 |
|           | TITLE:                                                                                           | JOB NO.:   |
| 23-025    |                                                                                                  |            |
| DWG. NO.: |                                                                                                  |            |
|           | VENTILATION DETAIL<br>REVISIONS                                                                  | MSK04      |

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

P:\23-059 New Glasgow Library Renovation\Sketch\MSK5 Ventilation Details Revision II.dwg April 11, 2024 8:39:55 AM



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Website: www.mreng.ca

STAMP:

PROJECT:

NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:

VENTILATION DETAIL  
REVISIONS

SCALE:

AS NOTED

DATE:

11/04/2024

JOB NO.:

23-025

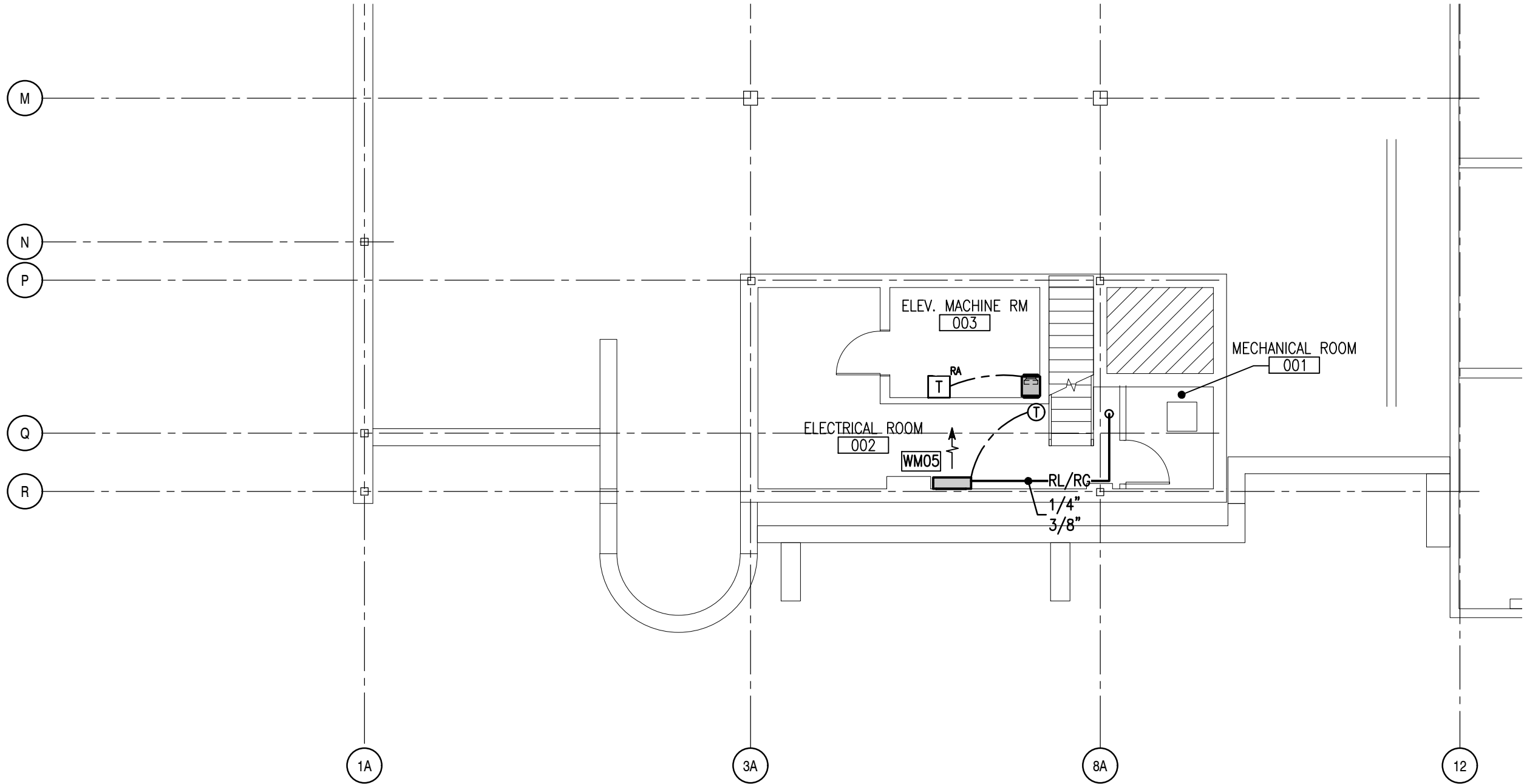
DWG. NO.:

**MSK05**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

P:\23-059 New Glasgow Library Renovation\Sketch\MSK6 Basement Heating Addition .dwg April 11, 2024 8:52:27 AM



2

MH103

HEATING LAYOUT – BASEMENT – NEW WORK

SCALE: 1/8" = 1'-0"



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STAMP:

PROJECT:

NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:

HEATING NEW  
BASEMENT ADDITIONS

SCALE:

AS NOTED

DATE:

11/04/2024

JOB NO.:

23-025

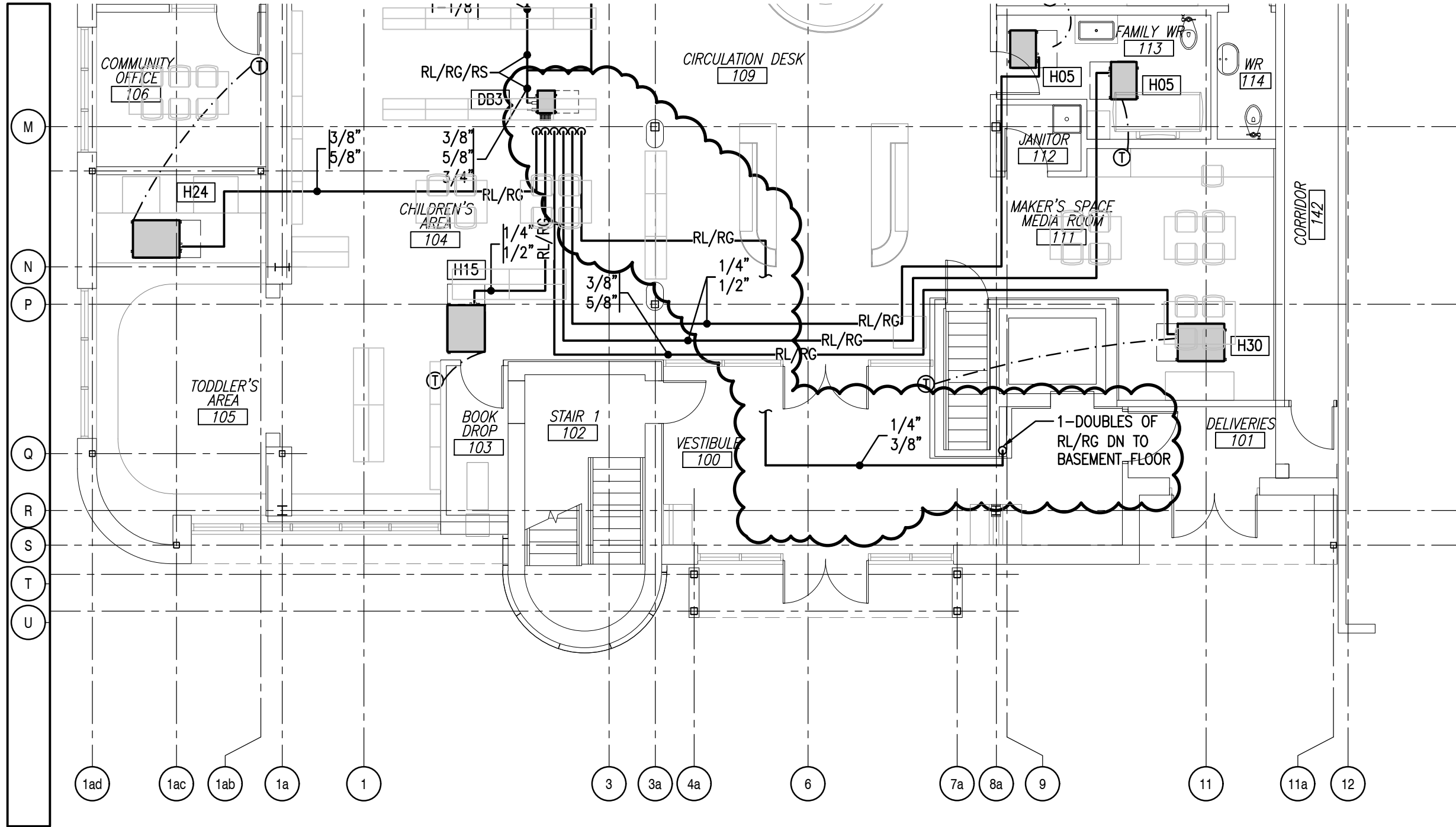
DWG. NO.:

MSK06

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

P:\23-059 New Glasgow Library Renovation\Sketch\MSK7 Level 1 New Heating Revisions X1.dwg April 11, 2024 8:14:01 AM



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STAMP:

PROJECT:

**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:

**HEATING NEW  
LEVEL 1 REVISIONS**

SCALE:

**AS NOTED**

DATE:

**11/04/2024**

JOB NO.:

**23-025**

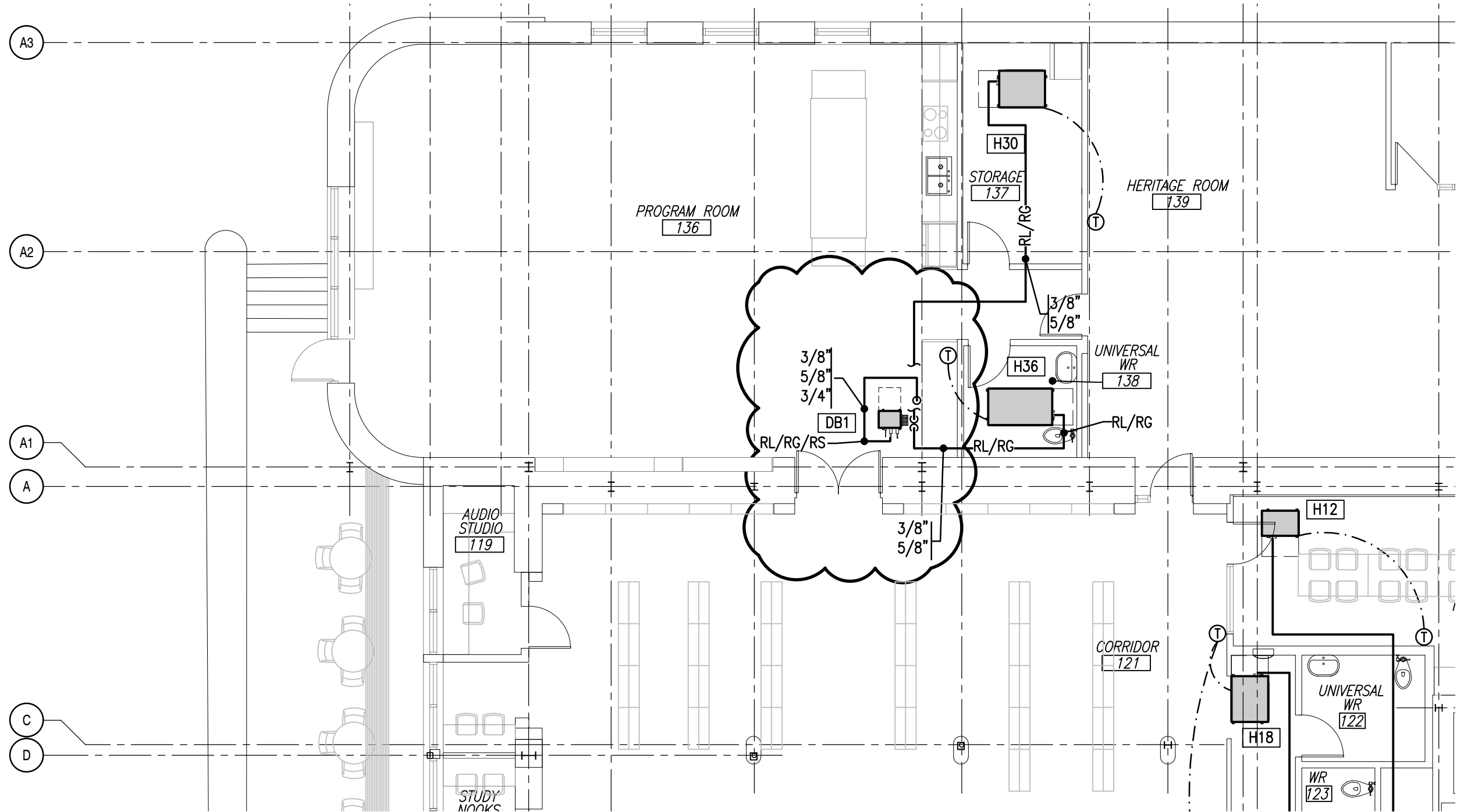
DWG. NO.:

**MSK07**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

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Tel: (902) 422-7393, Fax: (902) 423-4945  
Website: www.mreng.ca

STAMP:

PROJECT:

**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:

**HEATING NEW  
LEVEL 1 REVISIONS**

SCALE:

**AS NOTED**

DATE:

**11/04/2024**

JOB NO.:

**23-025**

DWG. NO.:

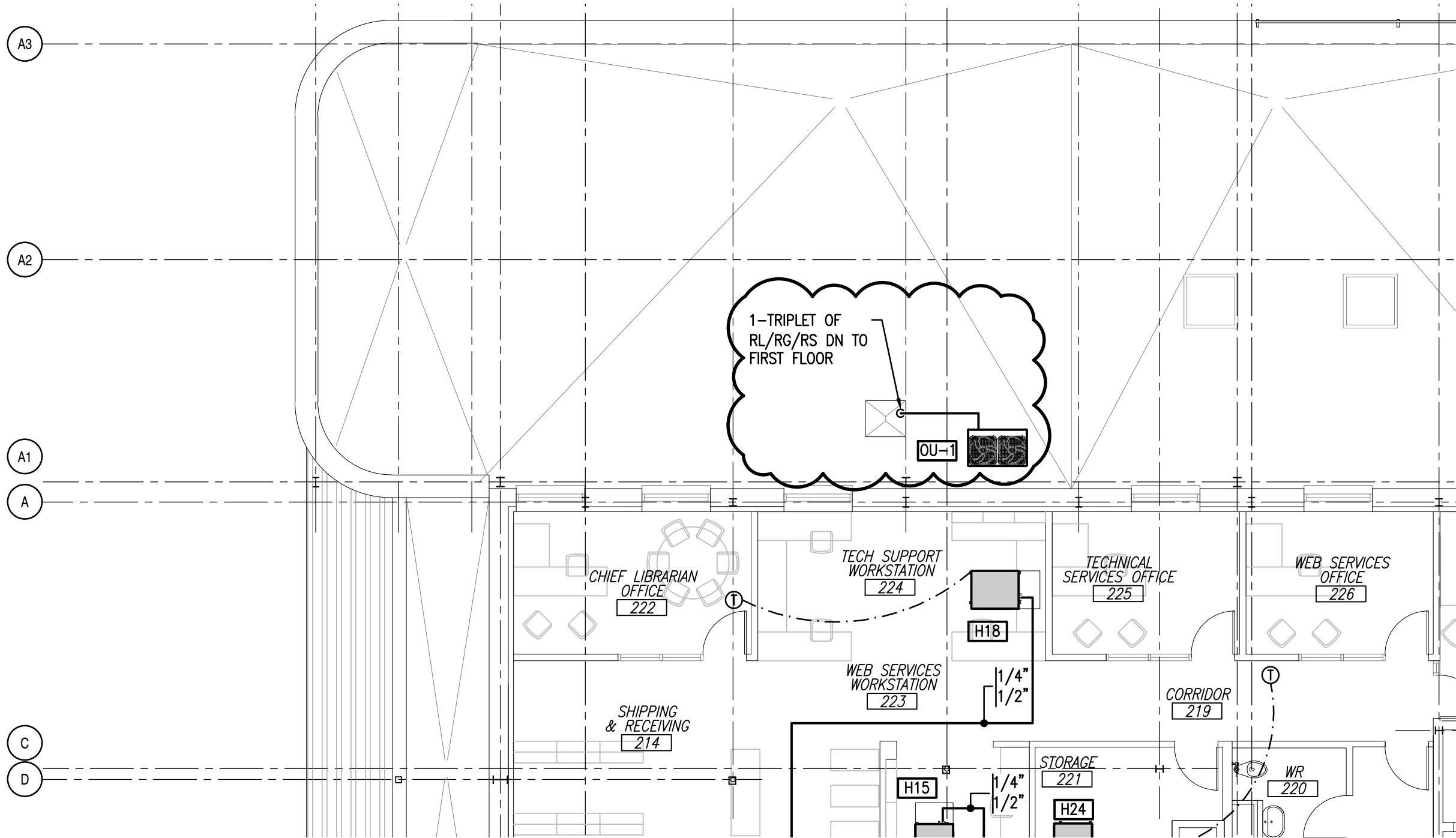
**MSK08**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled



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Tel: (902) 422-7393, Fax: (902) 423-4945  
Website: www.mreng.ca

STAMP:

PROJECT:  
**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:  
**HEATING NEW  
LEVEL 2 REVISIONS**

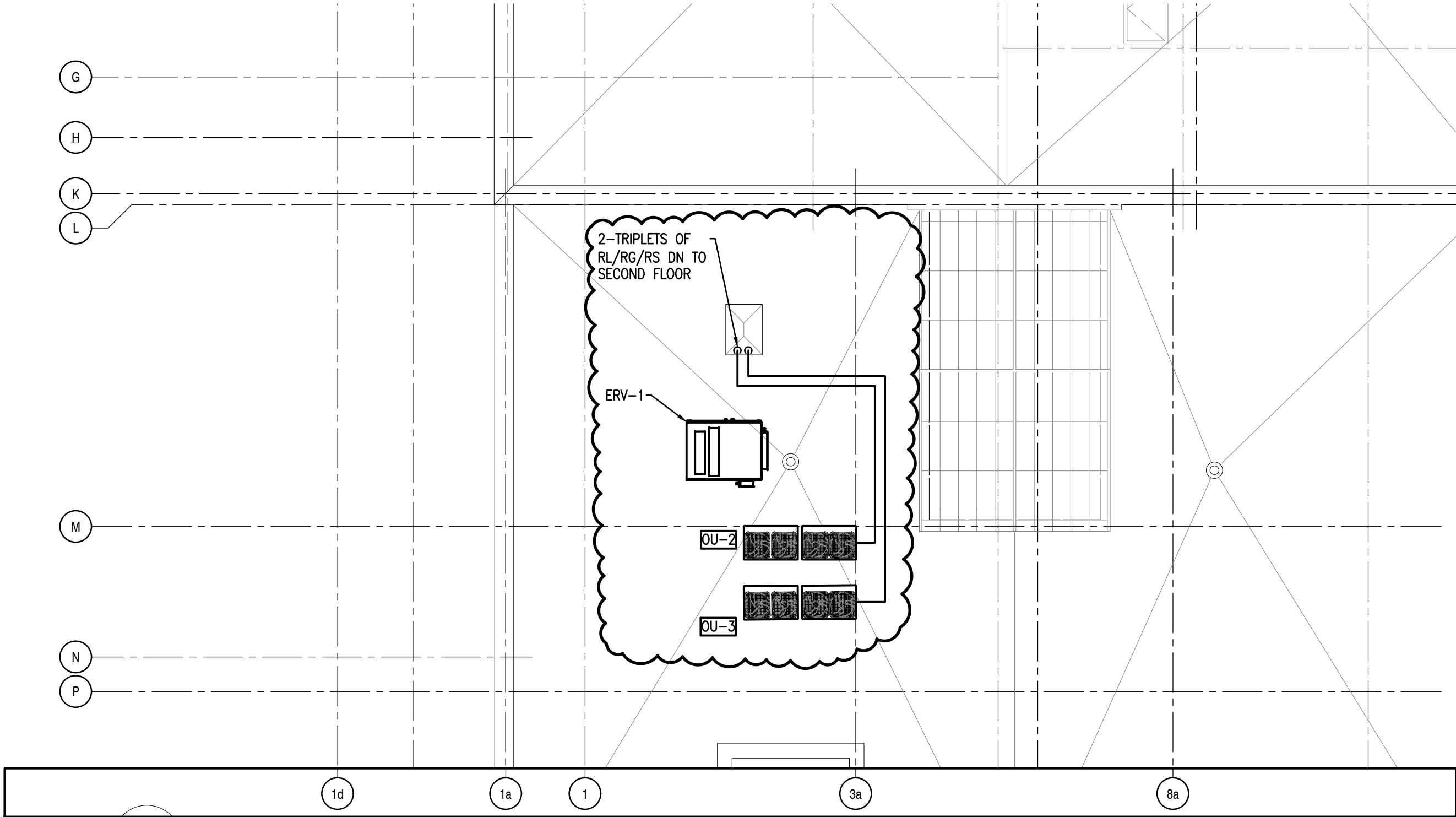
SCALE:  
**AS NOTED**  
DATE:  
11/04/2024  
JOB NO.:  
23-025

DWG. NO.:  
**MSK09**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

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STAMP:

PROJECT:  
**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:  
**HEATING NEW  
ROOF REVISIONS**

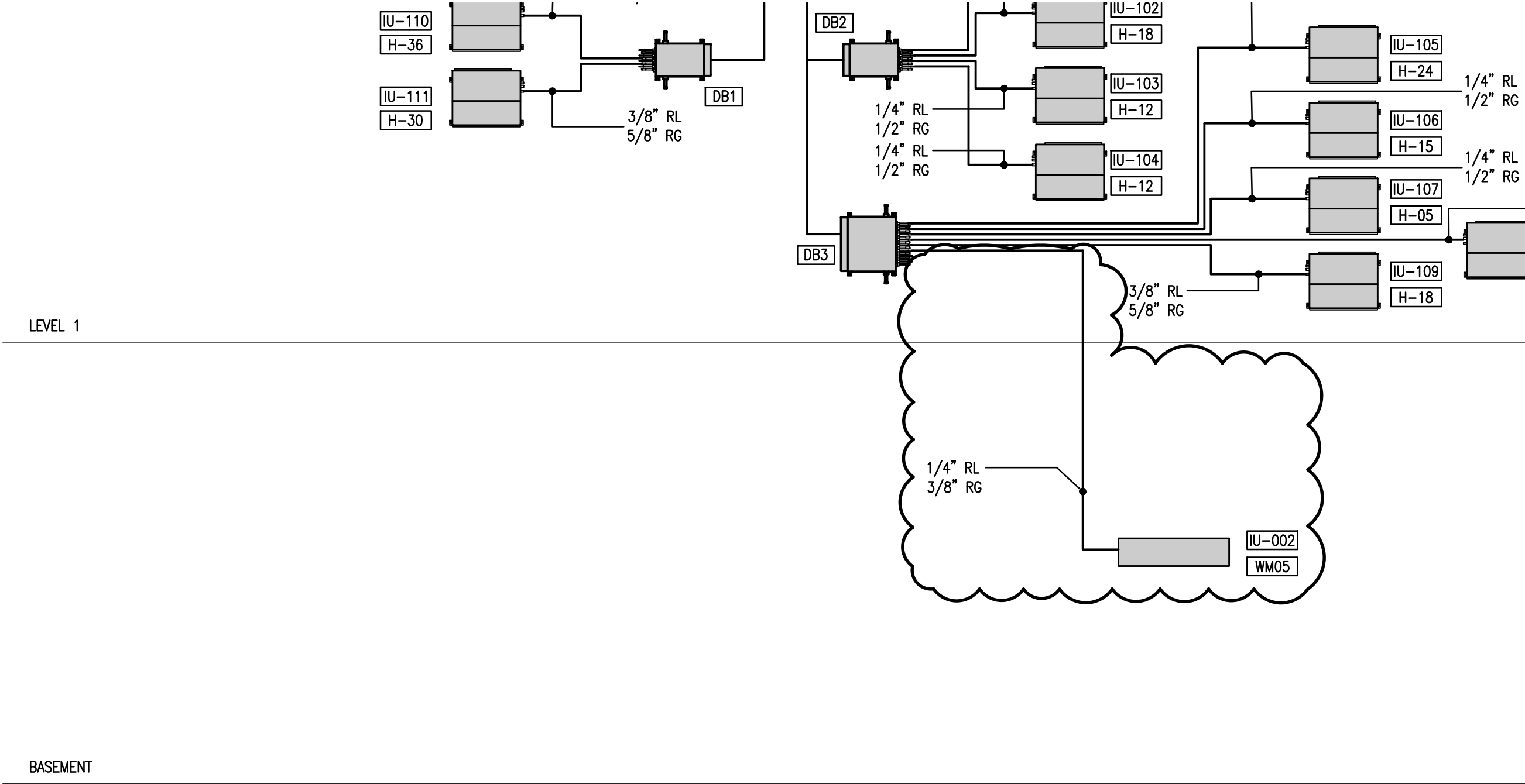
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**AS NOTED**  
DATE:  
**11/04/2024**  
JOB NO.:  
**23-025**

DWG. NO.:  
**MSK10**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

P:\23-059 New Glasgow Library Renovation\Sketch\MSK11 Heating Schematic Update.dwg April 10, 2024 12:00:15 PM



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Website: www.mreng.ca

STAMP:

PROJECT:  
NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:  
HEATING SCHEMATIC  
BASEMENT ADDITIONS

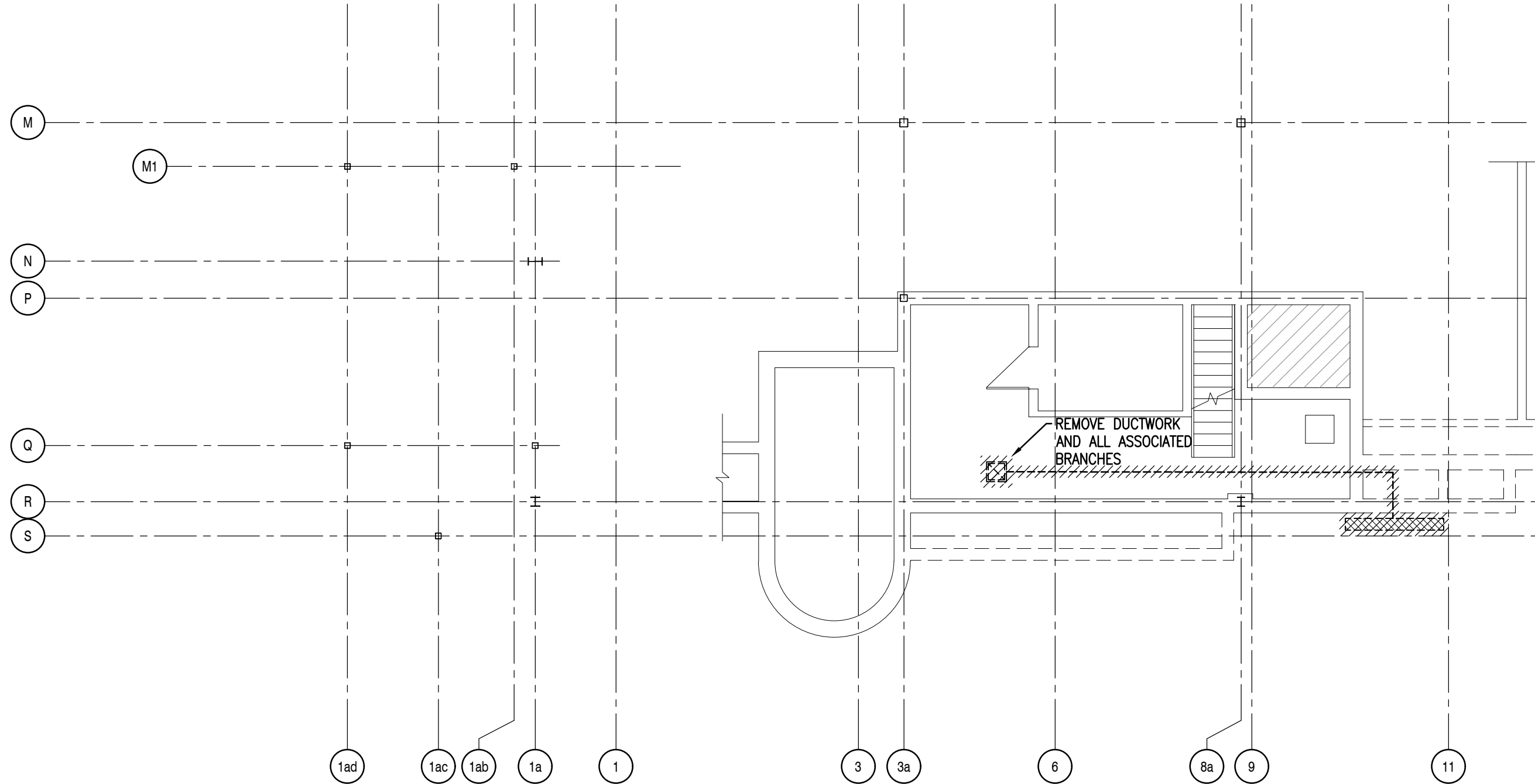
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AS NOTED  
DATE:  
11/04/2024  
JOB NO.:  
23-025

DWG. NO.:  
MSK11

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled

P:\23-059 New Glasgow Library Renovation\Sketch\MSK12 Basement Ventilation Removal.dwg April 11, 2024 3:20:12 PM



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STAMP:

PROJECT:  
**NEW GLASGOW LIBRARY AND PARL  
HEADQUARTERS REVITALIZATION**  
182 DALHOUSIE ST, NEW GLASGOW, NS

TITLE:  
**VENTILATION  
BASEMENT REMOVAL**

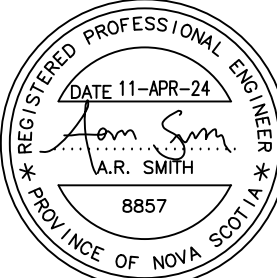
SCALE:  
**AS NOTED**  
DATE:  
11/04/2024  
JOB NO.:  
23-025

DWG. NO.:  
**MSK12**

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH MAIN CONTRACT DRAWINGS AND SPECIFICATIONS

This drawing is not to be scaled





| Revisions |                   | DATE       |
|-----------|-------------------|------------|
| NO.       |                   |            |
| 1         | ISSUED FOR TENDER | 2024-02-29 |
| 2         | MECH ADDENDUM 2   | 2024-04-11 |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

VENTILATION - LEVEL 1 &  
BASEMENT - NEW WORK

Scale  
AS NOTED

Project number  
23-025

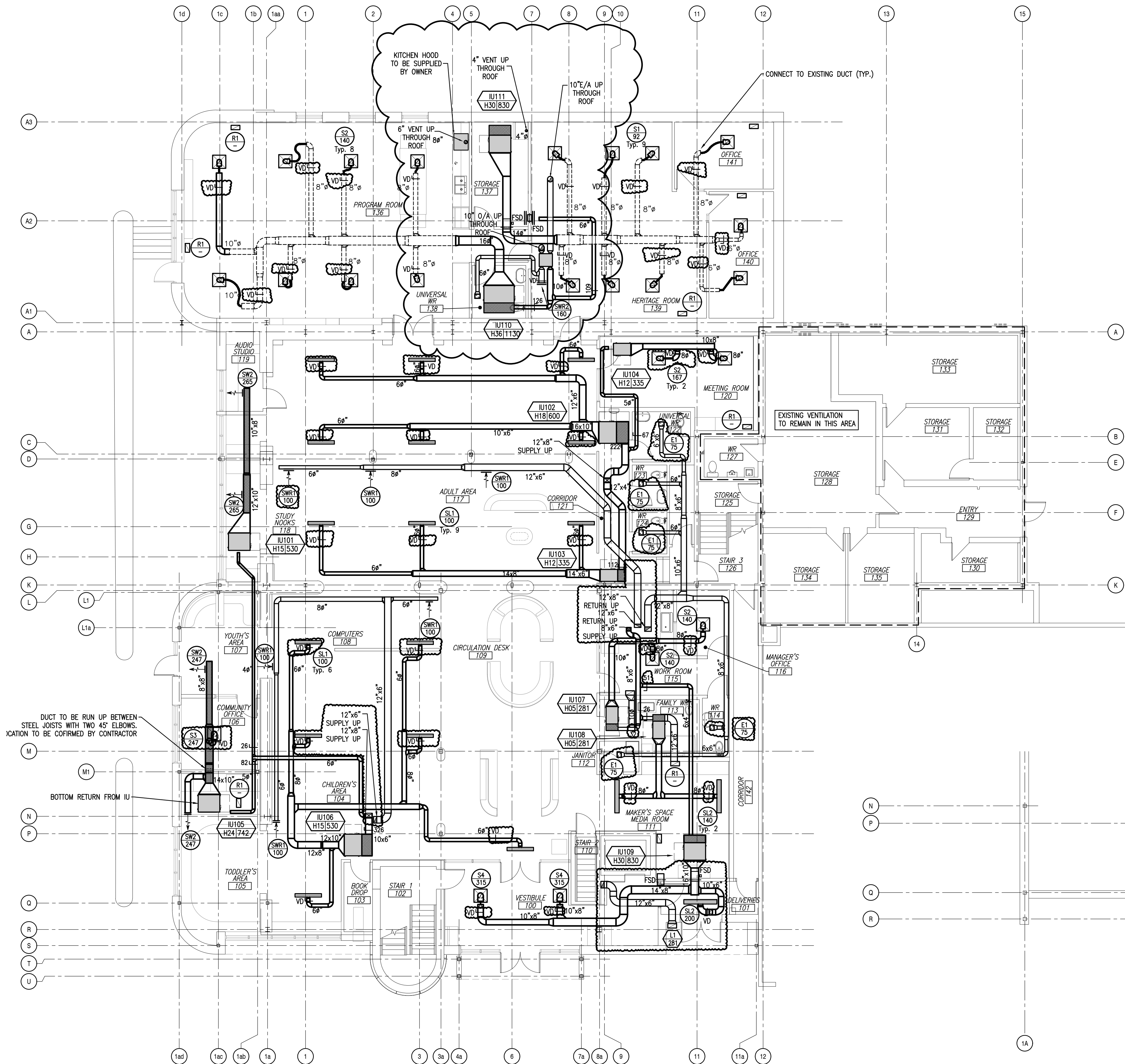
Drawn By  
JMW

Checked  
ARS

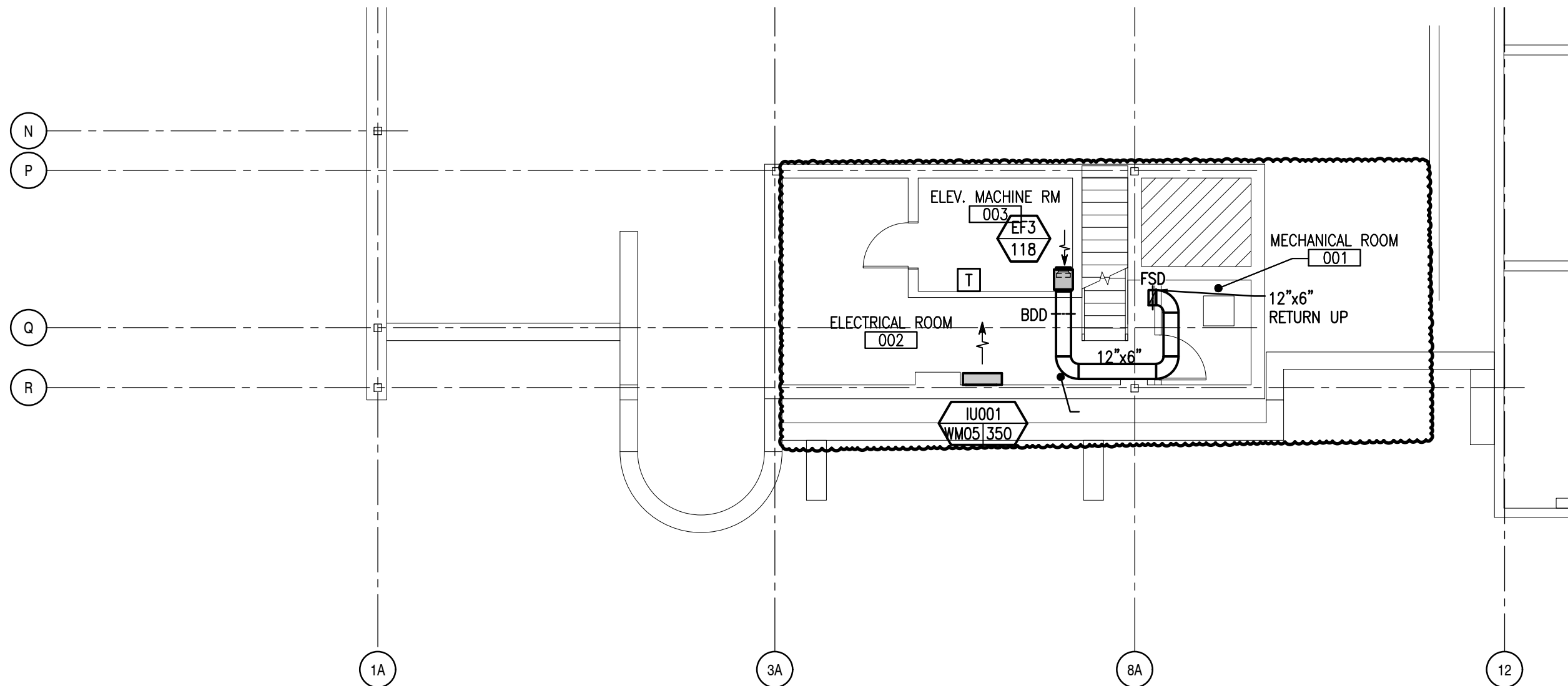
Approved  
ARS

Drawing Number

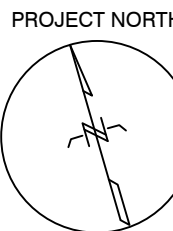
MV-104



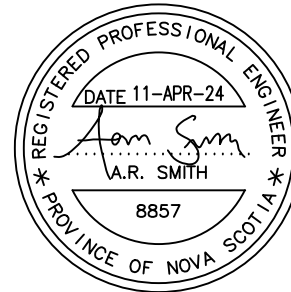
1 VENTILATION LAYOUT - LEVEL 1 - NEW WORK  
MV104 SCALE: 1/8" = 1'-0"



1 VENTILATION LAYOUT - BASEMENT - NEW WORK  
MV104 SCALE: 1/8" = 1'-0"







| Revisions |                              |
|-----------|------------------------------|
| NO.       | DATE                         |
| 1         | ISSUED FOR TENDER 2024-02-29 |
| 2         | MECH ADDENDUM 2 2024-04-11   |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

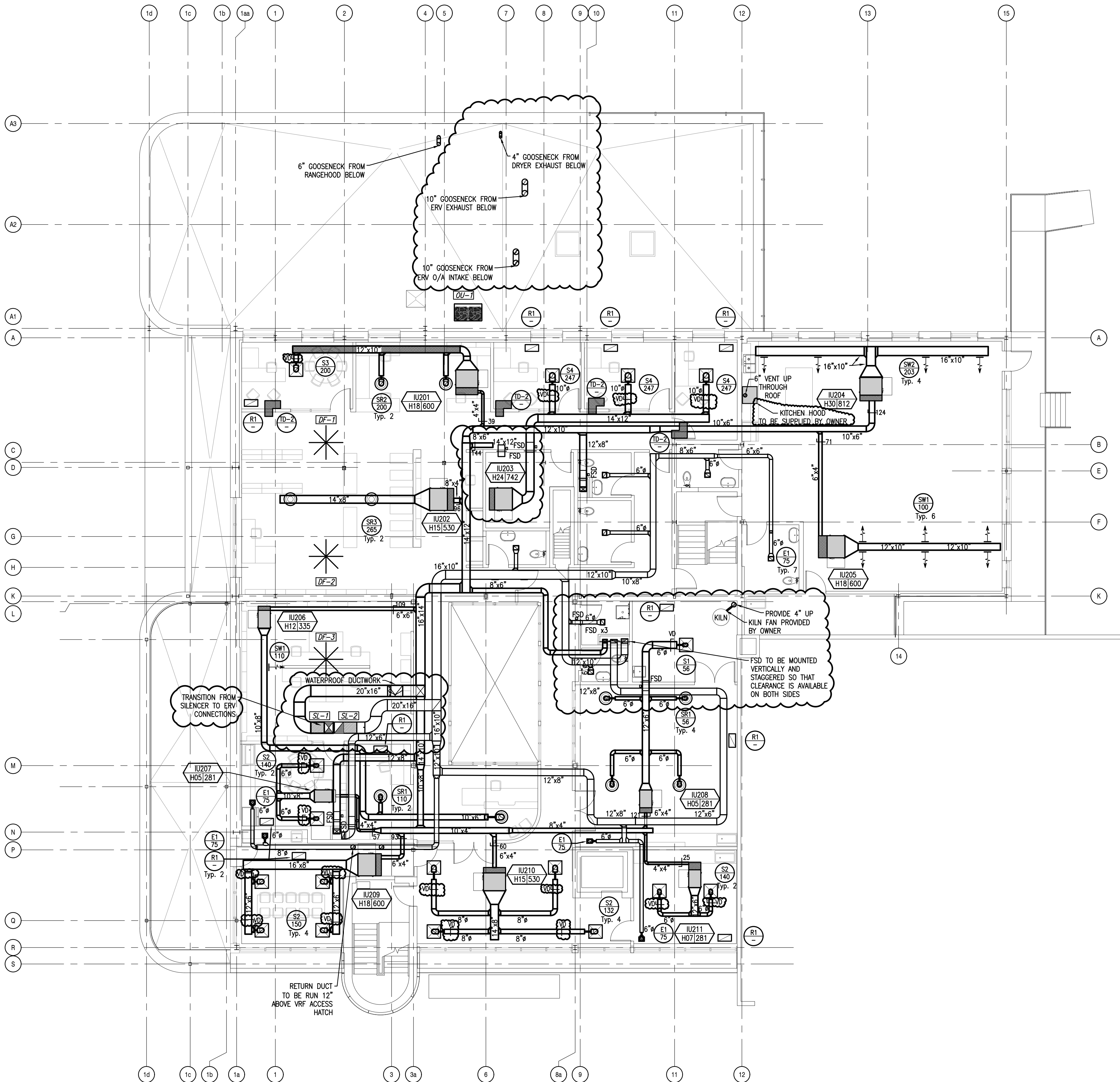
VENTILATION - LEVEL 2 -  
NEW WORK

Scale Project number  
AS NOTED 23-025

Drawn By Checked Approved  
JMW ARS ARS

Drawing Number

MV-105





| ENERGY RECOVERY VENTILATOR SCHEDULE |                  |             |            |           |            |             |           |            |                       |           |      |             |           |      |                       |                 |     |          |         |                      |     |              |                                          |
|-------------------------------------|------------------|-------------|------------|-----------|------------|-------------|-----------|------------|-----------------------|-----------|------|-------------|-----------|------|-----------------------|-----------------|-----|----------|---------|----------------------|-----|--------------|------------------------------------------|
| FAN NO.                             | MAKE/MODEL       | LOCATION    | SUPPLY FAN |           |            | EXHAUST FAN |           |            | HEAT RECOVERY SECTION |           |      |             |           |      |                       |                 |     |          | REMARKS |                      |     |              |                                          |
|                                     |                  |             | FAN DATA   |           | MOTOR DATA | FAN DATA    |           | MOTOR DATA | OUTSIDE AIR           |           |      | EXHAUST AIR |           |      | SUPPLY L.A. TEMP ("F) | ERV ELECT. DATA |     |          |         | PRE HEAT ELECT. DATA |     |              |                                          |
|                                     |                  |             | CFM        | ESP (in.) | HP         | CFM         | ESP (in.) | HP         | CFM                   | TEMP ("F) | R.H. | CFM         | TEMP ("F) | R.H. |                       | MCA             | MOP | V/PH/HZ  |         | MCA                  | MOP | PREHEAT (kW) | V/PH/HZ                                  |
| ERV-1                               | Topvex 3200RT-EC | ROOF        | 2200       | 0.9       | 1.34       | 2200        | 0.9       | 1.34       | 2200                  | 7         | 28   | 2200        | 72        | 40   | 59                    | 4.2             | 15  | 208/3/60 | 41.7    | 50                   | 15  | 208/3/60     | C/W MECHANICAL CURB AND ELECTRIC PREHEAT |
| ERV-2                               | VAM300GVJU       | STORAGE 135 | 270        | 0.3       | -          | 270         | 0.3       | -          | 270                   | 7         | 28   | 270         | 72        | 40   | 46                    | 1.6             | 15  | 208/1/60 | 9.6     | 15                   | 2.0 | 208/1/60     | C/W LOOSE ELECTRIC PREHEAT               |

| OUTDOOR HEAT PUMP UNIT SCHEDULE |                       |        |              |                |      |         |     |             |         |          |                              |
|---------------------------------|-----------------------|--------|--------------|----------------|------|---------|-----|-------------|---------|----------|------------------------------|
| MARK                            | APPLICATION           | MAKE   | MODEL        | COOLING        |      | HEATING |     | ELECTRICAL  |         |          | REMARKS                      |
|                                 |                       |        |              | CAPACITY (MBH) | EER  | MBH     | COP | MCA         | MOCP    | VOLTAGE  |                              |
| OU-1                            | PROGRAM/HERITAGE ROOM | DAIKIN | RELQ72TATJA  | 72             | 17.8 | 78.9    | 1.9 | 21.6        | 25      | 575/3/60 | LOCATED ON FIRST FLOOR ROOF  |
| OU-2                            | LIBRARY LEVEL 1       | DAIKIN | RELQ144TATJA | 144            | 15.2 | 158     | 1.8 | 21.6 + 21.6 | 25 + 25 | 575/3/60 | LOCATED ON SECOND FLOOR ROOF |
| OU-3                            | LIBRARY LEVEL 2       | DAIKIN | RELQ192TATJA | 192            | 15.4 | 211     | 1.9 | 28.5 + 28.5 | 35 + 35 | 575/3/60 | LOCATED ON SECOND FLOOR ROOF |

NOTES:  
1. COOLING CAPACITIES BASED ON 95°F OUTDOOR, 80°F/67°F DB/WB INDOOR    2. HEATING CAPACITIES BASED ON -2°F OUTDOOR, 70°F INDOOR

| HIGH VOLUME LOW SPEED FAN SCHEDULE |              |            |             |                       |           |      |           |          |     |            |    |        |                  |       |         |                              |
|------------------------------------|--------------|------------|-------------|-----------------------|-----------|------|-----------|----------|-----|------------|----|--------|------------------|-------|---------|------------------------------|
| MARK                               | MANUFACTURER | MODEL      | APPLICATION | ARRANGEMENT & DRIVE   | FAN DATA  |      |           |          |     | MOTOR DATA |    |        | FAN INTERLOCKING | SOUND | REMARKS |                              |
|                                    |              |            |             |                       | SIZE (in) |      | BLADE NO. | S.P (in) | BHP | RPM        | HP | ELECT. |                  |       |         |                              |
|                                    |              |            |             |                       | STEM      | DIA. |           |          |     |            |    | POWER  |                  |       |         | MOP                          |
| DF-1                               | BIG ASS      | i6 - White | -           | GEARLESS DIRECT DRIVE | -         | 60   | 6         | -        | -   | 170        | -  | 120/1  | 10A              | -     | <35 dBA | C/W FIXED WALL MOUNT CONTROL |
| DF-2                               | BIG ASS      | i6 - White | -           | GEARLESS DIRECT DRIVE | -         | 60   | 6         | -        | -   | 170        | -  | 120/1  | 10A              | -     | <35 dBA | C/W FIXED WALL MOUNT CONTROL |
| DF-3                               | BIG ASS      | i6 - White | -           | GEARLESS DIRECT DRIVE | -         | 60   | 6         | -        | -   | 170        | -  | 120/1  | 10A              | -     | <35 dBA | C/W FIXED WALL MOUNT CONTROL |

| VARIABLE REFRIGERANT FLOW – INDOOR UNIT SCHEDULE |             |        |                                |                  |              |                   |                            |                         |                                  |                     |                  |            |       |
|--------------------------------------------------|-------------|--------|--------------------------------|------------------|--------------|-------------------|----------------------------|-------------------------|----------------------------------|---------------------|------------------|------------|-------|
| MARK                                             | MODEL       | MANUF. | SUPPLY FAN AIR FLOW RATE (CFM) | COOLING CAPACITY |              | HEATING TOTAL MBH | POWER SUPPLY VOLTAGE/PHASE | MIN. CIRCUIT AMPS (MCA) | MAX OVERCURRENT PROTECTION (MOP) | REFRIG. LIQUID (in) | REFRIG. GAS (in) | DRAIN (in) | NOTES |
|                                                  |             |        |                                | TOTAL MBH        | SENSIBLE MBH |                   |                            |                         |                                  |                     |                  |            |       |
| H05                                              | FXSQ05TAVJU | DAIKIN | 286                            | 5.8              | 4.7          | 6.6               | 208/1                      | 0.8                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H07                                              | FXSQ07TAVJU | DAIKIN | 286                            | 7.5              | 5.8          | 8.5               | 208/1                      | 0.8                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H09                                              | FXSQ09TAVJU | DAIKIN | 317                            | 9.5              | 7.1          | 10.6              | 208/1                      | 0.8                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H12                                              | FXSQ12TAVJU | DAIKIN | 339                            | 11.9             | 9.5          | 13.6              | 208/1                      | 0.7                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H15                                              | FXSQ15TAVJU | DAIKIN | 445                            | 15.0             | 11.2         | 17.1              | 208/1                      | 1.4                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H18                                              | FXSQ18TAVJU | DAIKIN | 664                            | 18.1             | 13.6         | 20.1              | 208/1                      | 1.6                     | 15                               | 1/4"                | 1/2"             | 1"         |       |
| H24                                              | FXSQ24TAVJU | DAIKIN | 741                            | 23.9             | 17.1         | 26.9              | 208/1                      | 1.8                     | 15                               | 3/8"                | 5/8"             | 1"         |       |
| H30                                              | FXSQ30TAVJU | DAIKIN | 816                            | 30.0             | 22.5         | 34.1              | 208/1                      | 1.6                     | 15                               | 3/8"                | 5/8"             | 1"         |       |
| H36                                              | FXSQ36TAVJU | DAIKIN | 1130                           | 36.0             | 25.7         | 40.0              | 208/1                      | 2.5                     | 15                               | 3/8"                | 5/8"             | 1"         |       |

| WALL MOUNTED INDOOR UNIT SCHEDULE |           |        |                                |                  |              |                   |                            |                         |                                  |                     |                  |            |       |
|-----------------------------------|-----------|--------|--------------------------------|------------------|--------------|-------------------|----------------------------|-------------------------|----------------------------------|---------------------|------------------|------------|-------|
| MARK                              | MODEL     | MANUF. | SUPPLY FAN AIR FLOW RATE (CFM) | COOLING CAPACITY |              | HEATING TOTAL MBH | POWER SUPPLY VOLTAGE/PHASE | MIN. CIRCUIT AMPS (MCA) | MAX OVERCURRENT PROTECTION (MOP) | REFRIG. LIQUID (in) | REFRIG. GAS (in) | DRAIN (in) | NOTES |
|                                   |           |        |                                | TOTAL MBH        | SENSIBLE MBH |                   |                            |                         |                                  |                     |                  |            |       |
| WM05                              | CTX07LVJU | DAIKIN | 330                            | 7.0              | 5.0          | 7.0               | 208/1                      | 8.0                     | 15                               | 1/4"                | 3/8"             | 5/8"       |       |

| PIPING DISTRIBUTION BOX SCHEDULE |        |            |         |            |      |          |                                     |
|----------------------------------|--------|------------|---------|------------|------|----------|-------------------------------------|
| MARK                             | MAKE   | MODEL      | OUTLETS | ELECTRICAL |      |          | REMARKS                             |
|                                  |        |            |         | MCA        | MOCP | VOLTAGE  |                                     |
| DB-1                             | DAIKIN | BSF4Q54TVJ | 4       | 0.4        | 15   | 208/1/60 | C/W ISOLATION VALVES ON EACH BRANCH |
| DB-2                             | DAIKIN | BSF4Q54TVJ | 4       | 0.4        | 15   | 208/1/60 | C/W ISOLATION VALVES ON EACH BRANCH |
| DB-3                             | DAIKIN | BSF8Q54TVJ | 8       | 0.8        | 15   | 208/1/60 | C/W ISOLATION VALVES ON EACH BRANCH |
| DB-4                             | DAIKIN | BSF4Q54TVJ | 4       | 0.4        | 15   | 208/1/60 | C/W ISOLATION VALVES ON EACH BRANCH |
| DB-5                             | DAIKIN | BSF8Q54TVJ | 8       | 0.8        | 15   | 208/1/60 | C/W ISOLATION VALVES ON EACH BRANCH |

| HUMIDIFIER SCHEDULE |             |         |        |                      |            |      |          |                                  |
|---------------------|-------------|---------|--------|----------------------|------------|------|----------|----------------------------------|
| MARK                | APPLICATION | MAKE    | MODEL  | CAPACITY<br>(lbs/hr) | ELECTRICAL |      |          | REMARKS                          |
|                     |             |         |        |                      | KW         | MOCP | VOLTAGE  |                                  |
| HU-1                | ERV-1       | CONDAIR | RS 020 | 20                   | 7.7        | 20   | 575/3/60 | C/W SHORT<br>ABSORPTION MANIFOLD |

| EXHAUST FAN SCHEDULE |                       |                        |              |         |                     |          |         |            |        |              |                |                  |                             |
|----------------------|-----------------------|------------------------|--------------|---------|---------------------|----------|---------|------------|--------|--------------|----------------|------------------|-----------------------------|
| MARK                 | APPLICATION           | LOCATION               | MANUFACTURER | MODEL   | ARRANGEMENT & DRIVE | FAN DATA |         | MOTOR DATA |        | STARTER DATA |                | FAN INTERLOCKING | REMARKS                     |
|                      |                       |                        |              |         |                     | CFM      | SP (in) | W          | ELECT. | TYPE         | LOCATION       |                  |                             |
| EF1                  | ELEVATOR ROOM EXHAUST | BASEMENT ELEVATOR ROOM | GREENHECK    | SP-A390 | INLINE DIRECT DRIVE | 280      | 0.75    | 135        | 120/1  | RA T'STAT    | SEE ELEC. DWGS | -                | C/W VIBRATION ISOLATION KIT |

| SUPPLY DIFFUSER SCHEDULE |              |      |                 |                |              |          |            |                                             |
|--------------------------|--------------|------|-----------------|----------------|--------------|----------|------------|---------------------------------------------|
| MARK                     | MANUFACTURER | TYPE | NECK SIZE (in.) | CLG SIZE (in.) | CAPACITY CFM | NC LEVEL | S.P. (in.) | REMARKS                                     |
| S-1                      | PRICE        | SCD  | 5"ø             | 12" x 12"      | 0-120        | NC-25    | 0.04       | C/W 24" x 24" LAY-IN TILE IN T-BAR CEILINGS |
| S-2                      | PRICE        | SCD  | 6"ø             | 12" x 12"      | 121-160      | NC-26    | 0.03       | C/W 24" x 24" LAY-IN TILE IN T-BAR CEILINGS |
| S-3                      | PRICE        | SCD  | 8"ø             | 12" x 12"      | 161-225      | NC-26    | 0.02       | C/W 24" x 24" LAY-IN TILE IN T-BAR CEILINGS |
| S-4                      | PRICE        | SCD  | 8"ø             | 24" x 24"      | 226-315      | NC-26    | 0.04       | -                                           |

| SUPPLY/RETURN WALL GRILLE SCHEDULE |              |       |                 |                 |                |          |            |                   |
|------------------------------------|--------------|-------|-----------------|-----------------|----------------|----------|------------|-------------------|
| MARK                               | MANUFACTURER | MODEL | NECK SIZE (in.) | FACE SIZE (in.) | CAPACITY (CFM) | NC LEVEL | S.P. (in.) | REMARKS           |
| SW1                                | PRICE        | 510   | 4" x 4"         | 6" x 6"         | 125            | -        | 0.071      | C/W VOLUME DAMPER |
| SW2                                | PRICE        | 510   | 6" x 6"         | 8" x 8"         | 275            | 19       | 0.071      | C/W VOLUME DAMPER |
| SWR1                               | PRICE        | 510Z  | 4" x 4"         | 6" x 6"         | 125            | 23       | 0.068      | C/W VOLUME DAMPER |
| SWR2                               | PRICE        | 510   | 6" x 6"         | 8" x 8"         | 275            | 26       | 0.068      | C/W VOLUME DAMPER |

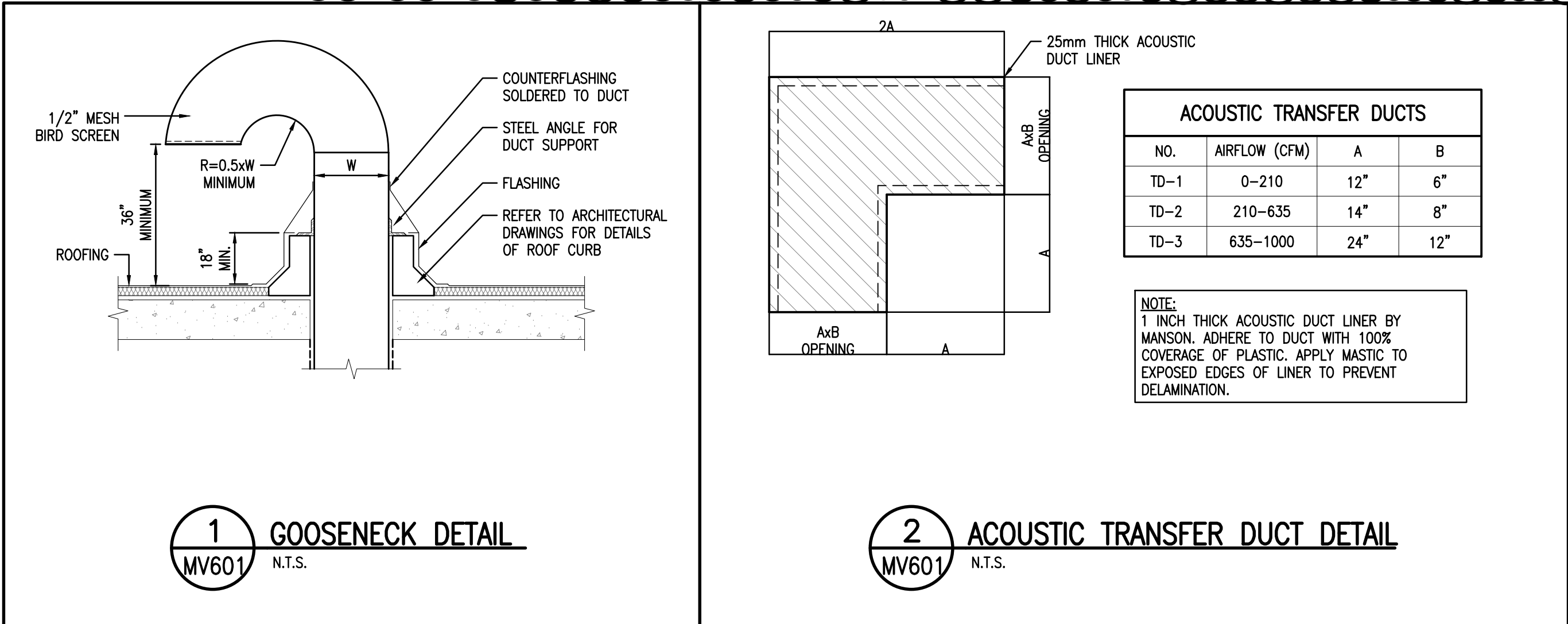
| ROUND SUPPLY DIFFUSER SCHEDULE |              |       |                 |                 |                |          |                   |
|--------------------------------|--------------|-------|-----------------|-----------------|----------------|----------|-------------------|
| MARK                           | MANUFACTURER | MODEL | NECK SIZE (in.) | CLG. SIZE (in.) | CAPACITY (CFM) | NC LEVEL | REMARKS           |
| SR-1                           | PRICE        | RCD   | 6"ø             | 13 1/2"ø        | 0-150          | NC-22    | C/W VOLUME DAMPER |
| SR-2                           | PRICE        | RCD   | 8"ø             | 18"ø            | 150-250        | NC-22    | C/W VOLUME DAMPER |
| SR-3                           | PRICE        | RCD   | 10"ø            | 22 1/2"ø        | 250-375        | NC-22    | C/W VOLUME DAMPER |

| DUCT SILENCER SCHEDULE |              |                 |                    |                    |       |       |
|------------------------|--------------|-----------------|--------------------|--------------------|-------|-------|
| MARK                   | APPLICATION  | DUCT SIZE (in.) | AIR FRICTION (in.) | INSERTION LOSS, db |       |       |
|                        |              |                 |                    | 125Hz              | 250Hz | 500Hz |
| SL-1                   | ERV-1 SUPPLY | 20"x16"         | 0.25               | 13                 | 24    | 33    |
| SL-2                   | ERV-1 RETURN | 20"x16"         | 0.25               | 13                 | 24    | 33    |

| LINEAR SLOT DIFFUSER SCHEDULE |              |              |                 |            |                   |          |            |         |
|-------------------------------|--------------|--------------|-----------------|------------|-------------------|----------|------------|---------|
| MARK                          | MANUFACTURER | Length (ft.) | SLOT SIZE (in.) | # OF SLOTS | CAPACITY (CFM/ft) | NC LEVEL | S.P. (in.) | REMARKS |
| SL1                           | PRICE        | 4            | 1/2"            | 1          | 25                | 23       | 0.08       |         |
| SL2                           | PRICE        | 5            | 1/2"            | 2          | 40                | 22       | 0.075      |         |

| EXHAUST GRILLE SCHEDULE |              |         |                    |                   |          |               |                   |
|-------------------------|--------------|---------|--------------------|-------------------|----------|---------------|-------------------|
| MARK                    | MANUFACTURER | MODEL   | NECK SIZE<br>(in.) | CAPACITY<br>(CFM) | NC LEVEL | S.P.<br>(in.) | REMARKS           |
| E1                      | PRICE        | 60D/C/L | 6" x 4"            | 61-95             | NC-20    | 0.09          | C/W VOLUME DAMPER |

| RETURN GRILLE SCHEDULE |              |       |                 |                |          |            |                   |
|------------------------|--------------|-------|-----------------|----------------|----------|------------|-------------------|
| MARK                   | MANUFACTURER | MODEL | NECK SIZE (in.) | CAPACITY (CFM) | NC LEVEL | S.P. (in.) | REMARKS           |
| R1                     | PRICE        | 510   | 12" x 24"       | 0-1440         | -        | -          | C/W VOLUME DAMPER |



Fathom

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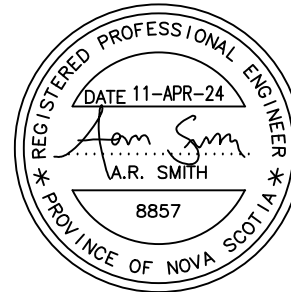
Client

TOWN OF NEW GLASGOW

Key Plan

Scale: N.T.S.

Seal



Revisions

NO. DATE  
1 ISSUED FOR TENDER 2024-02-29  
2 MECH ADDENDUM 2 2024-04-11

Project

NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

VENTILATION  
DETAILS & SCHEDULES

Scale

Project number

AS NOTED

23-025

Drawn By

Checked

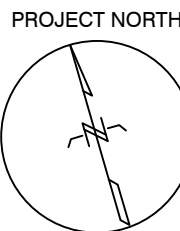
Approved

JMW

ARS

ARS

Drawing Number



MV-601







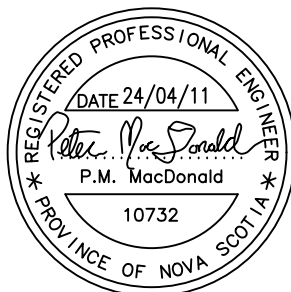
ELECTRICAL LEGEND

|                       |  |                                                                                                                                                                                                         |
|-----------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POWER AND RECEPTACLES |  | 125 VOLT, 15 AMP DUPLEX RECEPTACLE (5-15R) C/W COVER PLATE MOUNTED 18" A.F.F. UNLESS OTHERWISE NOTED.                                                                                                   |
|                       |  | 125 VOLT, 15 AMP DUPLEX RECEPTACLE (5-15R) C/W COVER PLATE. REFER TO MILLWORK DRAWINGS FOR MOUNTING HEIGHT.                                                                                             |
|                       |  | 2X125 VOLT, 15 AMP DUPLEX RECEPTACLE (5-15R) C/W COVER PLATE. MOUNTED 18" A.F.F. UNLESS OTHERWISE NOTED.                                                                                                |
|                       |  | 2X125 VOLT, 15 AMP DUPLEX RECEPTACLE (5-15R) C/W COVER PLATE. REFER TO MILLWORK DRAWINGS FOR MOUNTING HEIGHT.                                                                                           |
|                       |  | 125 VOLT, 20 AMP DUPLEX RECEPTACLE (5-20R) C/W COVER PLATE MOUNTED 18" A.F.F. UNLESS OTHERWISE NOTED.                                                                                                   |
|                       |  | 125 VOLT, 20 AMP DUPLEX RECEPTACLE (5-20R) C/W COVER PLATE. REFER TO MILLWORK DRAWINGS FOR MOUNTING HEIGHT.                                                                                             |
|                       |  | 250 VOLT, 30 AMP, 2 POLE, 3 WIRE, U-GROUND RECEPTACLE (6-30R) C/W COVER PLATE, MOUNTED 44" A.F.F. UNLESS OTHERWISE NOTED.                                                                               |
|                       |  | 250 VOLT, 50 AMP, 3 POLE, 4 WIRE, U-GROUND RECEPTACLE (14-50R) C/W COVER PLATE, MOUNTED 10" A.F.F. UNLESS OTHERWISE NOTED.                                                                              |
|                       |  | DIRECT ELECTRICAL CONNECTION TO EQUIPMENT AS INDICATED ON FLOOR PLANS.                                                                                                                                  |
|                       |  | 125 VOLT, 15 AMP POKE THRU DEVICE C/W 2X5-15R RECEPTACLE                                                                                                                                                |
|                       |  | RECESSED POWER/COMMUNICATIONS WORK SURFACE UNIT-CONSISTING OF TWO 5-15R GASKETED DUPLEX RECEPTACLE, ONE COMMUNICATIONS OUTLET C/W ONE DATA & ONE VOICE JACK AND 4 PAIR UTP PATCH CABLES TO PATCH PANEL. |
|                       |  | ELECTRICAL POWER POLE                                                                                                                                                                                   |
|                       |  | HOT WATER TANK, INSTALLED BY MECH, WIRED BY ELECTRICAL C/W DISCONNECT SWITCH. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION & DETAILS.                                                                     |
|                       |  | MECHANICAL EQUIPMENT, SUPPLIED AND INSTALLED BY MECH, WIRED BY ELECTRICAL C/W DISCONNECT SWITCH. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND DETAILS. 'A' INDICATES EQUIPMENT TAG.                   |
|                       |  | ELECTRICAL PANEL, SURFACE MOUNTED. SEE PANEL DETAILS FOR DESCRIPTION.                                                                                                                                   |
|                       |  | CEILING FAN, SUPPLIED AND INSTALLED BY MECH, WIRED BY ELECTRICAL                                                                                                                                        |
|                       |  | SUMP PUMP. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.                                                                                                                                                  |
|                       |  | BASEBOARD HEATING, 1 INDICATES 1 KILOWATTS.                                                                                                                                                             |
|                       |  | ELECTRICAL TRANSFORMER DRY-TYPE, LETTER INDICATES EQUIPMENT LABEL-SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.                                                                                         |
| COMMUNICATION         |  | REVERSE ACTING THERMOSTAT                                                                                                                                                                               |
|                       |  |                                                                                                                                                                                                         |
|                       |  |                                                                                                                                                                                                         |
|                       |  |                                                                                                                                                                                                         |
|                       |  |                                                                                                                                                                                                         |
|                       |  | COMMUNICATIONS OUTLET, MOUNTED 18" A.F.F. UNLESS OTHERWISE NOTED, ONE DATA JACK, ONE VOICE JACK AND 4 PAIR UTP CABLES TO PATCH PANEL.                                                                   |
|                       |  | COMMUNICATIONS OUTLET, ONE DATA JACK, ONE VOICE JACK AND 4 PAIR UTP CABLES TO PATCH PANEL. REFER TO MILLWORK DRAWINGS FOR MOUNTING HEIGHT.                                                              |
|                       |  | PUBLIC ADDRESS SPEAKER, CEILING MOUNTED                                                                                                                                                                 |
|                       |  | COMMUNICATIONS OUTLET, DATA, MOUNTED 18" A.F.F., TWO DATA JACKS, AND 4 PAIR UTP CABLES TO PATCH PANEL.                                                                                                  |
|                       |  |                                                                                                                                                                                                         |
|                       |  |                                                                                                                                                                                                         |
| SECURITY              |  | DOOR / SECURITY HARDWARE - DOOR OPERATOR, SUPPLIED AND INSTALLED BY OTHERS, WIRED BY DIV. 16                                                                                                            |
|                       |  | DOOR / SECURITY HARDWARE - BARRIER FREE DOOR OPERATOR ACTUATOR PUSH BUTTON SUPPLIED AND INSTALLED BY OTHERS, WIRED BY DIV.16                                                                            |
|                       |  | CARD READER, MOUNTED AT 42" A.F.F.                                                                                                                                                                      |
|                       |  | SECURITY CAMERA, SEE RISER DIAGRAM FOR DETAILS.                                                                                                                                                         |
|                       |  | INTERCOM DOOR CHIME                                                                                                                                                                                     |
|                       |  | INTERCOM STATION                                                                                                                                                                                        |
|                       |  | MOTION DETECTOR, WALL MOUNTED                                                                                                                                                                           |
|                       |  |                                                                                                                                                                                                         |

|                           |  |                                                                                                                                                                                      |
|---------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIGHTING                  |  | LIGHT FIXTURE-STRIP LIGHT, CEILING/WALL MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                      |
|                           |  | LIGHT FIXTURE CEILING MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                                        |
|                           |  | LIGHT FIXTURE, CEILING MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                                       |
|                           |  | LIGHT FIXTURE, WALL MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                                          |
|                           |  | LIGHT FIXTURE-DOWN LIGHT, CEILING MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                            |
|                           |  | LIGHT FIXTURE-TRACK LIGHT, CEILING MOUNTED. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION, 'a' INDICATES SWITCHING.                                           |
|                           |  | SINGLE SWITCH C/W COVERPLATE, MOUNTED 42" A.F.F.                                                                                                                                     |
|                           |  | SINGLE GANG SWITCH C/W OCCUPANCY SENSOR, MOUNTED 42" A.F.F.                                                                                                                          |
|                           |  | DIMMER SWITCH MOUNTED AT 42" A.F.F.                                                                                                                                                  |
|                           |  | DAYLIGHT SENSOR, CEILING MOUNTED.                                                                                                                                                    |
|                           |  | OCCUPANCY SENSOR, CEILING MOUNTED                                                                                                                                                    |
|                           |  | SITE LIGHTING POLE WITH 1 FIXTURE.                                                                                                                                                   |
|                           |  |                                                                                                                                                                                      |
|                           |  |                                                                                                                                                                                      |
|                           |  | WALL AND CEILING MOUNTED ILLUMINATED EXIT SIGN, RESPECTIVELY, LED TYPE, SELF CONTAINED, C/W FACES AND ARROWS AS REQUIRED.                                                            |
|                           |  | COMBINATION EXIT/EMERGENCY LIGHT FIXTURE C/W TWO 4 WATT LED LAMPS MOUNTED 90" A.F.F. FACES AND ARROWS AS REQUIRED, WALL MOUNTED.                                                     |
|                           |  | SELF CONTAINED EMERGENCY LIGHTING BATTERY UNIT C/W TWO 4 WATT LED LAMPS MOUNTED 90" A.F.F.                                                                                           |
|                           |  | DOUBLE REMOTE EMERGENCY LIGHTING HEAD, 12VDC. TWO 4 WATT LED LAMPS MOUNTED 90" A.F.F.                                                                                                |
|                           |  | DOUBLE REMOTE EMERGENCY LIGHTING HEAD, 12VDC. TWO 4 WATT LED LAMPS CEILING MOUNTED                                                                                                   |
| EMERGENCY & EXIT LIGHTING |  | LOW-VOLTAGE WIRING, 2#12Cu +#12Cu BOND, 1/2" FROM BATTERY PACK AS NOTED ON FLOOR PLANS.                                                                                              |
|                           |  | FIRE ALARM MANUAL PULL STATION MOUNTED 42" A.F.F.                                                                                                                                    |
|                           |  | FIRE ALARM HORN MOUNTED 84" A.F.F.                                                                                                                                                   |
|                           |  | FIRE ALARM SMOKE DETECTOR, SEMI-FLUSH.                                                                                                                                               |
|                           |  | FIRE ALARM HEAT DETECTOR, SEMI-FLUSH.                                                                                                                                                |
| FIRE ALARM                |  | FIRE ALARM BELL, MOUNTED 88" A.F.F.                                                                                                                                                  |
|                           |  | SMOKE DAMPER OR COMBINATION FIRE-SMOKE DAMPER BY DIV 23. PROVIDE DUAL INPUT MODULE RELAY WITH 120 VOLT, 15A CIRCUIT FOR FIRE DAMPER POWER AND CONNECT TO FIRE ALARM INITIATING LOOP. |
|                           |  | DURESS CALL LIGHT                                                                                                                                                                    |
|                           |  | DURESS PUSH BUTTON                                                                                                                                                                   |
|                           |  |                                                                                                                                                                                      |
| DURESS SYSTEM             |  |                                                                                                                                                                                      |
|                           |  |                                                                                                                                                                                      |
|                           |  |                                                                                                                                                                                      |
|                           |  |                                                                                                                                                                                      |
|                           |  |                                                                                                                                                                                      |
| ABBREVIATION              |  | ABOVE FINISH FLOOR                                                                                                                                                                   |
|                           |  | INDICATES DEVICE IS EXISTING TO REMAIN                                                                                                                                               |
|                           |  | INDICATES EXISTING DEVICE TO BE RELOCATED.                                                                                                                                           |
|                           |  | INDICATES EXISTING DEVICE TO BE REMOVED.                                                                                                                                             |
|                           |  | INDICATES DEVICE IS TO BE C/W GROUND FAULT CIRCUIT INTERRUPTER                                                                                                                       |
|                           |  | INDICATES DEVICE IS TO BE WEATHER PROOF                                                                                                                                              |
|                           |  | INDICATES DEVICE IS TO BE TAMPER PROOF                                                                                                                                               |
|                           |  |                                                                                                                                                                                      |

ELECTRICAL DRAWING LIST

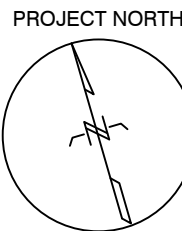
E-001-ELECTRICAL LEGEND  
E-002-SITE PLAN AND DETAILS 1  
E-003-SITE PLAN AND DETAILS 2  
E-100-LTG-BFL-E  
E-101-LTG-1FL-E  
E-102-LTG-2FL-E  
E-103-PWR&COMMS-BFL-E  
E-104-PWR&COMMS-1FL-E  
E-105-PWR&COMMS-2FL-E  
E-106-PWR-ROOF-E  
E-107-SYS-BFL-E  
E-108-SYS-1FL-E  
E-109-SYS-2FL-E  
E-110-LTG-BFL-N  
E-111-LTG-1FL-N  
E-112-LTG-2FL-N  
E-113-PWR&COMMS-BFL-N  
E-114-PWR&COMMS-1FL-N  
E-115-PWR&COMMS-2FL-N  
E-116-PWR-ROOF-N  
E-117-SYS-BFL-N  
E-118-SYS-1FL-N  
E-119-SYS-2FL-N  
E-501-ELECTRICAL DETAILS I  
E-502-ELECTRICAL DETAILS II  
E-503-ELECTRICAL DETAILS III  
E-601-SCHEDULES  
E-602-SLD & SCHEDULES



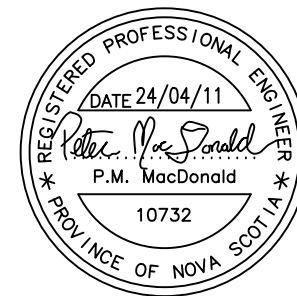
| NO. | DATE                         |
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| 1   | ISSUED FOR TENDER 2024-02-29 |
| 2   | ADDENDUM 1 2024-04-11        |

ELECTRICAL-LEGEND

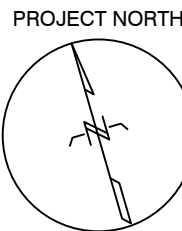
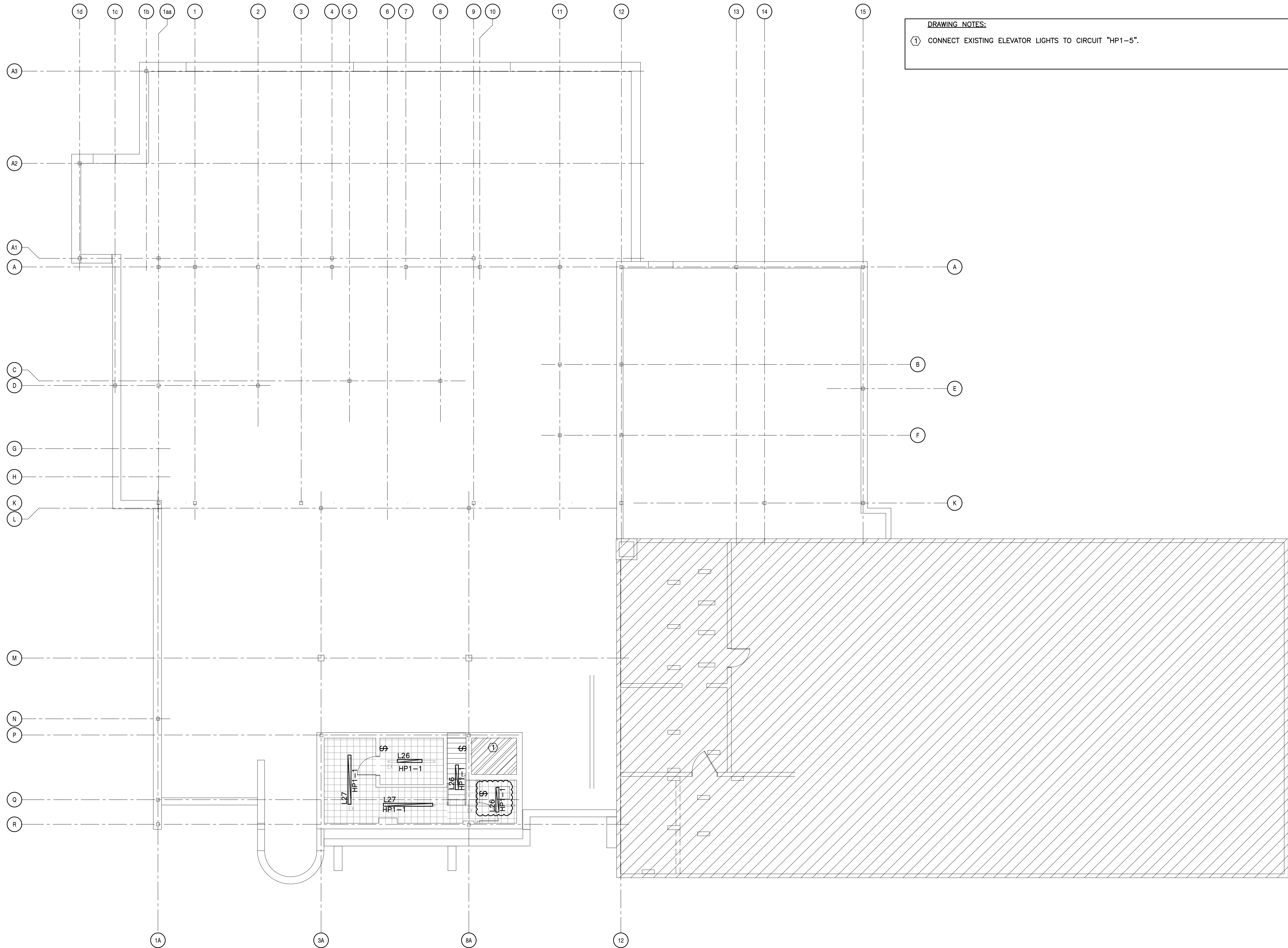
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|----------|----------------|----------|
| Scale    | Project number |          |
| AS NOTED | 23-025         |          |
| <hr/>    |                |          |
| Drawn By | Checked        | Approved |
| LM       | PMM            | PMM      |



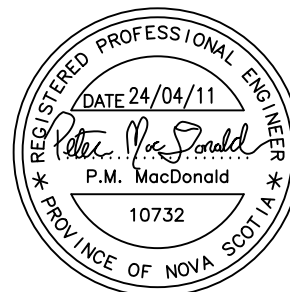




| NO. | DATE              | DATE       |
|-----|-------------------|------------|
| 1   | ISSUED FOR TENDER | 2024-02-29 |
| 2   | ADDENDUM 1        | 2024-04-11 |

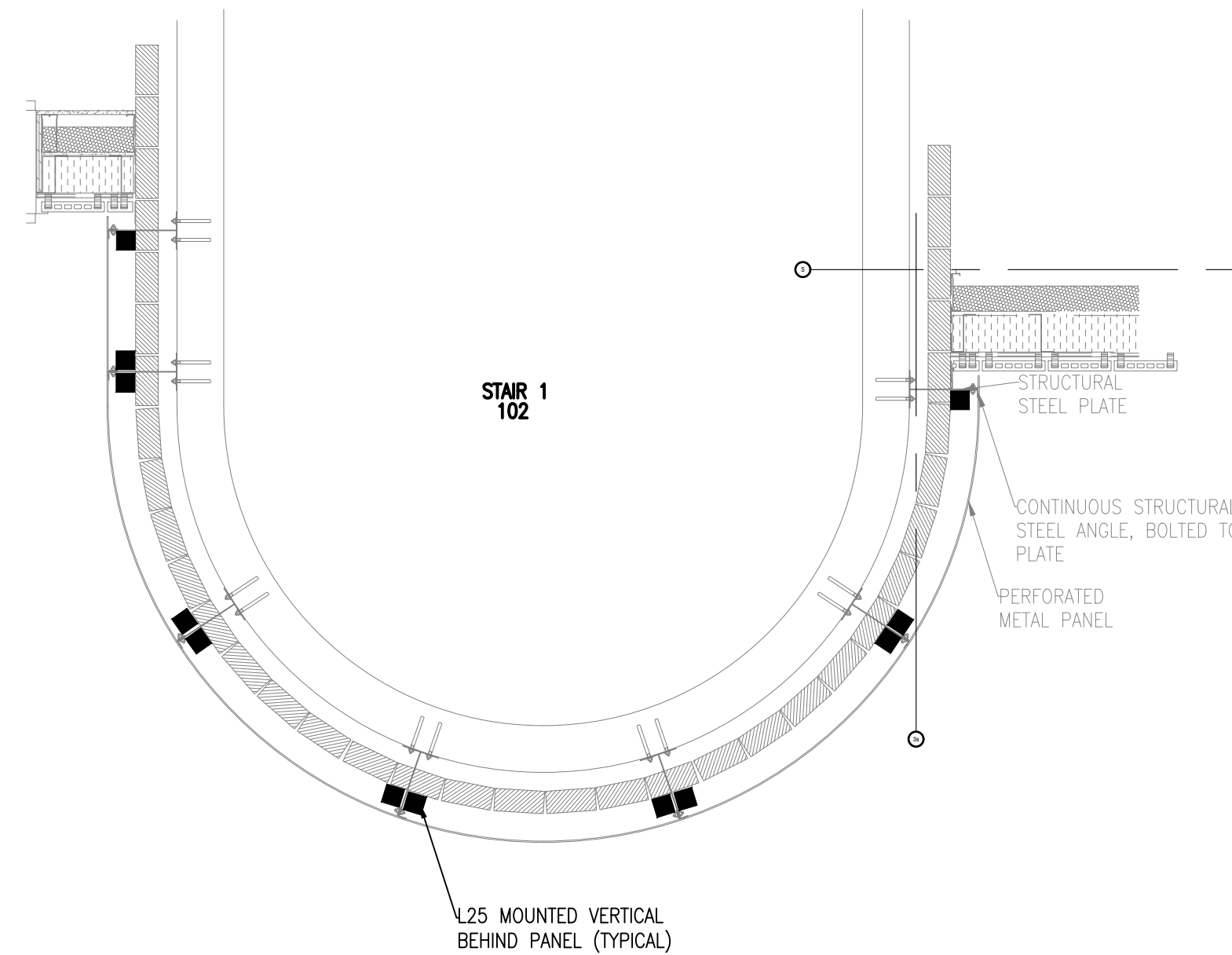




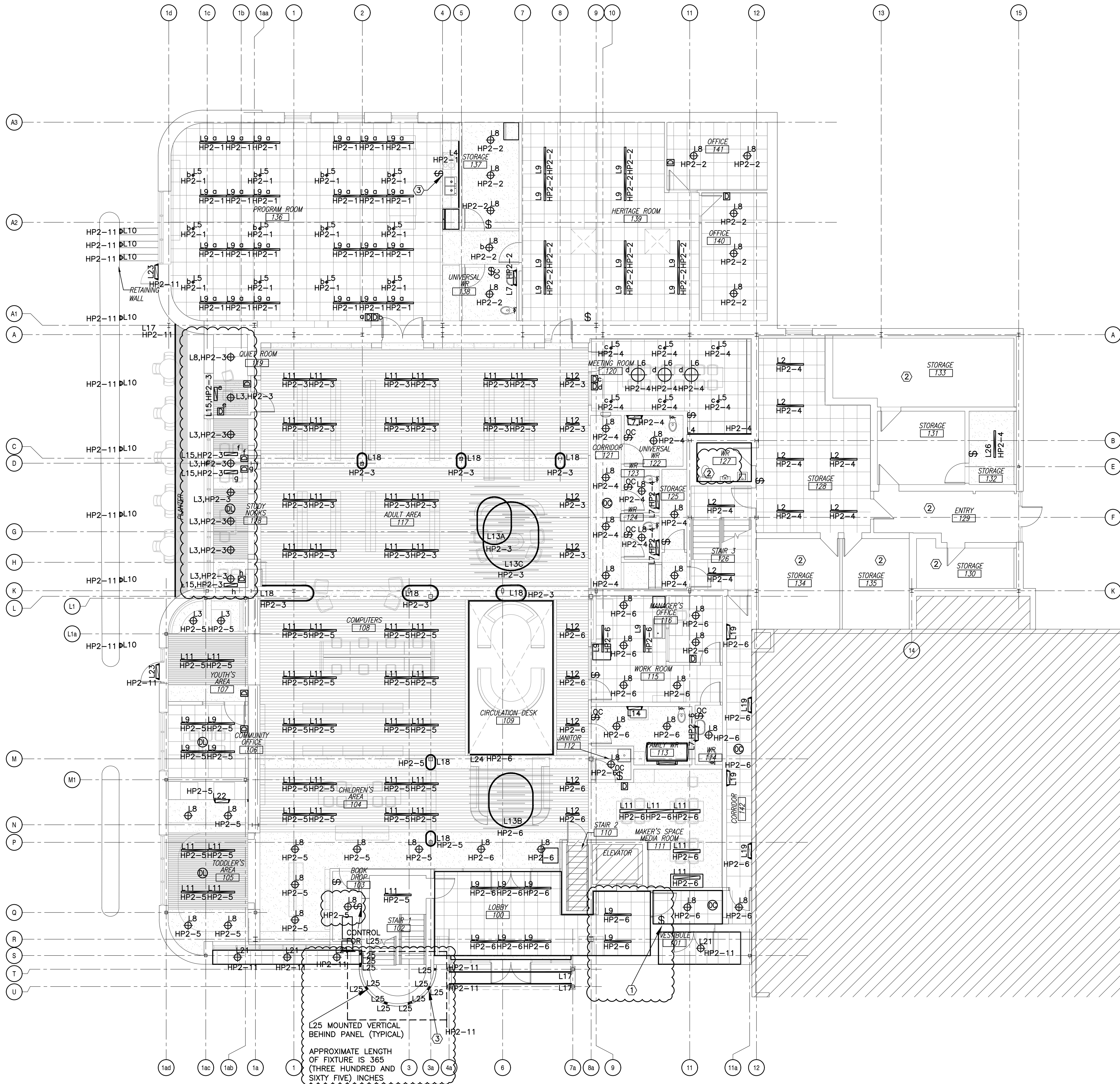


DRAWING NOTES:

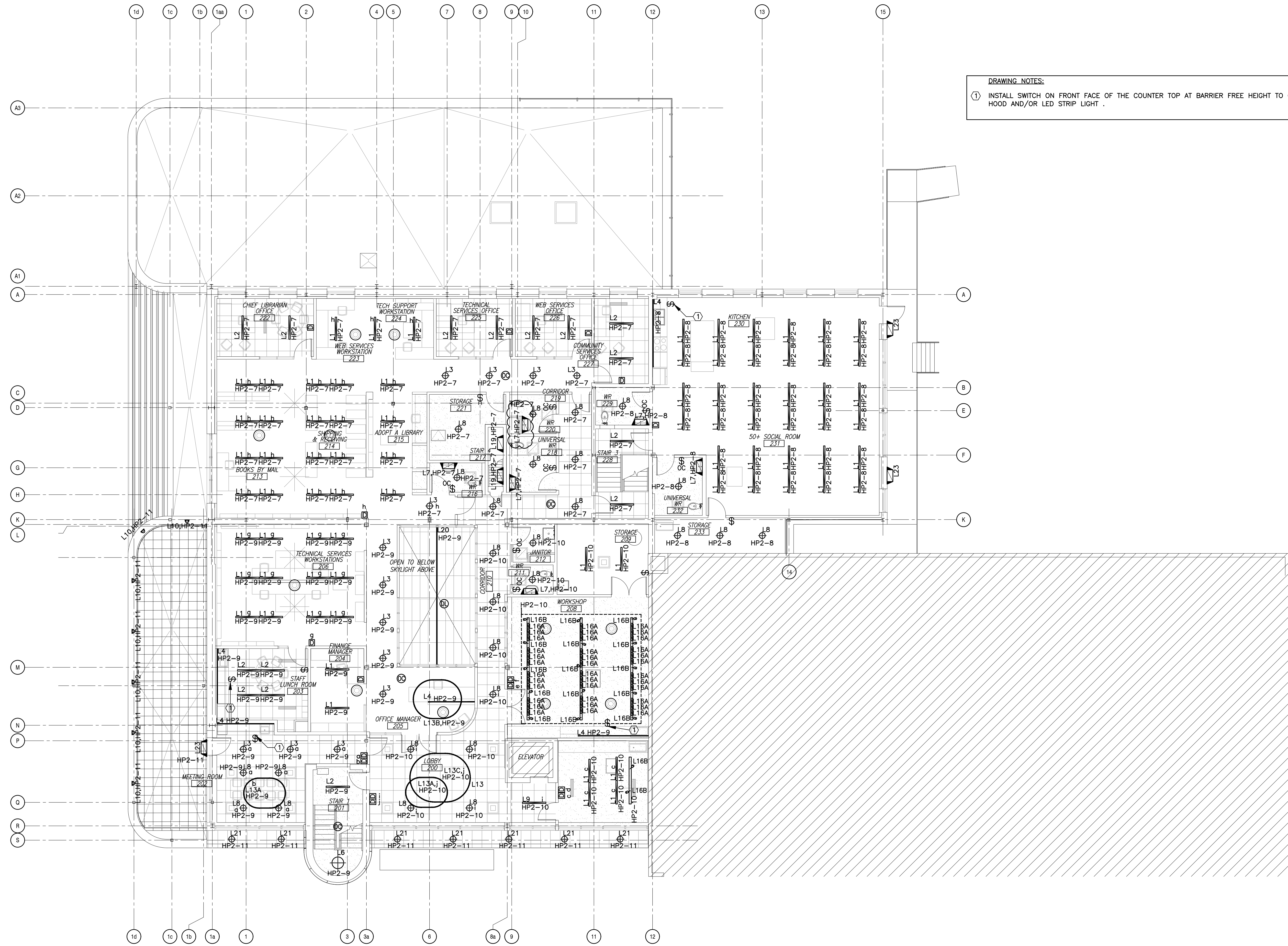
- BUILDING MASTER SHUTOFF FOR LIGHTING C/W SINGLE GANG HINGED PLATE, WIRE TO LIGHTING CONTROL PANEL IN LEVEL 2.
- EXTEND EXISTING LIGHTING CIRCUIT FROM PANEL HP2 TO CONNECT TO EXISTING LIGHTING AND LIGHTING CONTROL.
- INSTALL SWITCH ON FRONT FACE OF THE COUNTER TOP AT BARRIER FREE HEIGHT TO CONTROL RANGE HOOD AND/OR LED STRIP LIGHT.
- 12 VERTICAL RUNS OF KLUS NEON FLEX RGB, SEE DETAIL 1/E111.



1 L25 FIXTURE DETAIL  
E-111 N.T.S.







**DRAWING NOTES:**

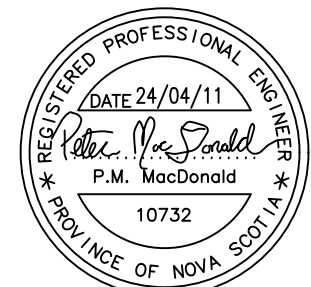
① INSTALL SWITCH ON FRONT FACE OF THE COUNTER TOP AT BARRIER FREE HEIGHT TO CONTROL RANGE HOOD AND/OR LED STRIP LIGHT .

1 LVL 2- LTG-NEW  
E-112 1/8"=1'

Client  
TOWN OF NEW GLASGOW

Key Plan

Scale: N.T.S.  
Seal



| Revisions |                   |
|-----------|-------------------|
| NO.       | DATE              |
| 1         | ISSUED FOR TENDER |
| 2         | ADDENDUM 1        |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

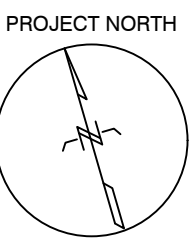
182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

LEVEL 2-LIGHTING  
NEW

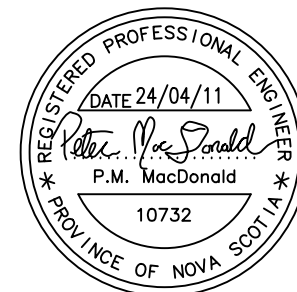
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| Scale    | Project number |
| AS NOTED | 23-025         |
| Drawn By | Checked        |
| LM       | PMM            |
|          | Approved       |
|          | PMM            |

Drawing Number



E-112





Revisions

| NO. | DATE              |
|-----|-------------------|
| 1   | ISSUED FOR TENDER |
| 2   | ADDENDUM 1        |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

BASEMENT-POWER &  
COMMS.-NEW

Scale  
AS NOTED

Project number  
23-025

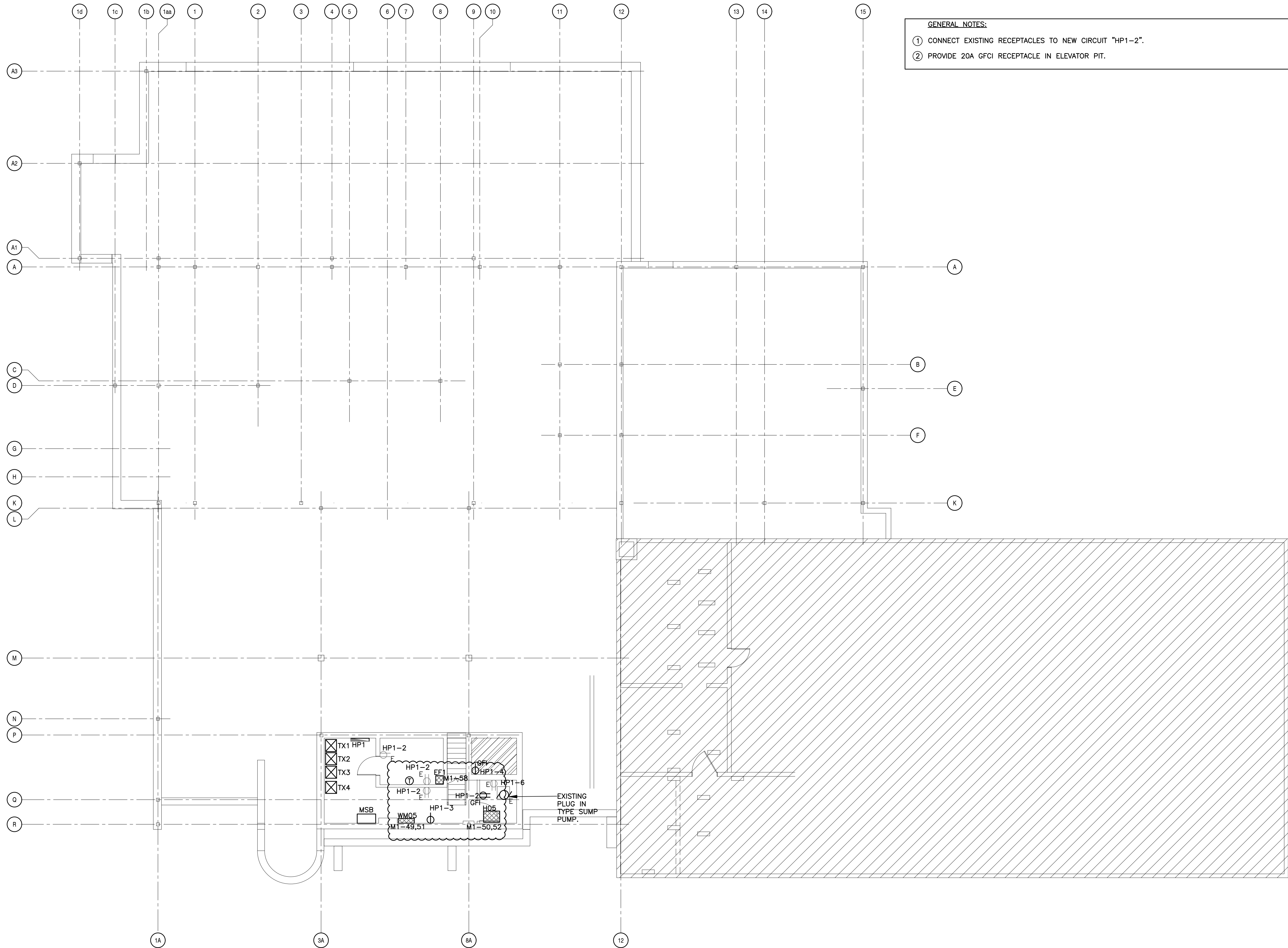
Drawn By  
LM

Checked  
PMM

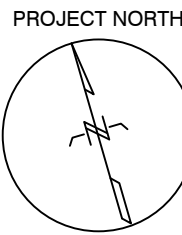
Approved  
PMM

Drawing Number

E-113



GENERAL NOTES:  
① CONNECT EXISTING RECEPTACLES TO NEW CIRCUIT "HP1-2".  
② PROVIDE 20A GFCI RECEPTACLE IN ELEVATOR PIT.





## BMR Structural Engineering

Halifax, Nova Scotia

## M&amp;R Engineering

Halifax, Nova Scotia

## DesignPoint Engineering &amp; Surveying

Halifax, Nova Scotia

M&R ENGINEERING LIMITED  
5531 Nova Boulevard St., Halifax, NS, B3K 1B3  
Tel: (902) 422-7393, Fax: (902) 423-4945  
Website: www.mreng.ca

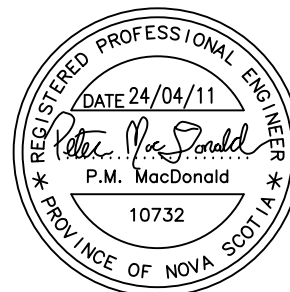
Client

TOWN OF NEW GLASGOW

Key Plan

Scale: N.T.S.

Seal



## Revisions

| NO. |                   | DATE       |
|-----|-------------------|------------|
| 1   | ISSUED FOR TENDER | 2024-02-29 |
| 2   | ADDENDUM 1        | 2024-04-11 |

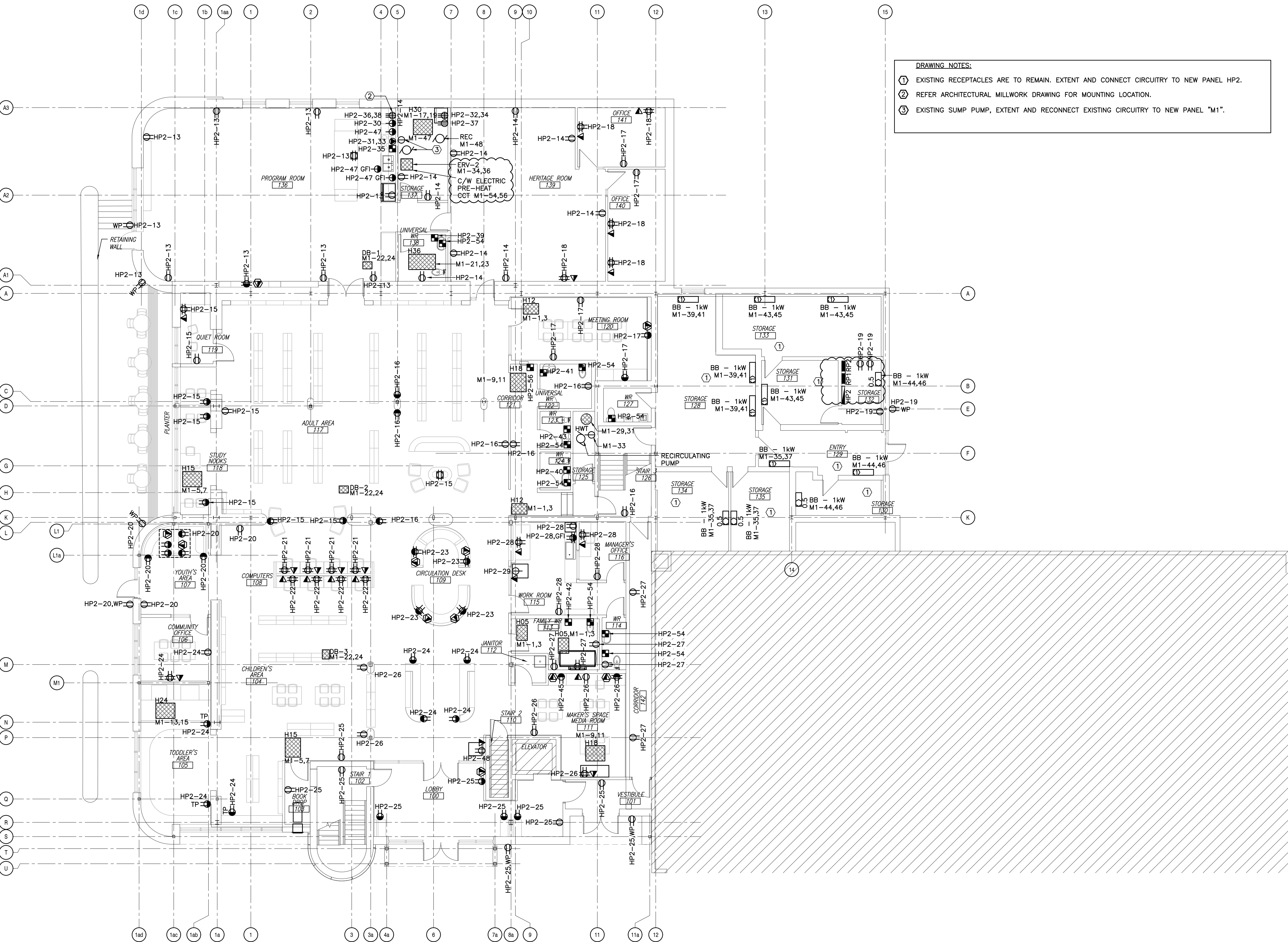
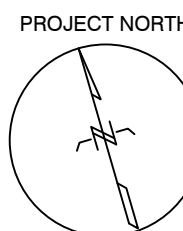
## Project

NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION182 DALHOUSIE STREET  
NEW GLASGOW, NS

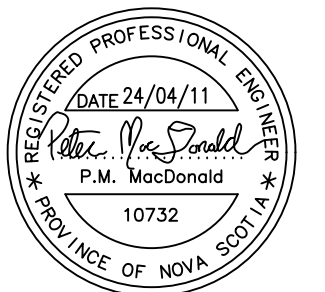
Drawing Name

LEVEL 1-POWER &  
COMMS.-NEWScale Project number  
AS NOTED 23-025Drawn By Checked Approved  
LM PMM PMM

Drawing Number







| Revisions |                                 |
|-----------|---------------------------------|
| NO.       | DATE                            |
| 1         | ISSUED FOR TENDER<br>2024-02-29 |
| 2         | ADDENDUM 1<br>2024-04-11        |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

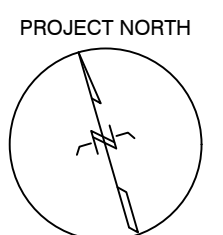
Drawing Name

LEVEL2-POWER &  
COMMS. -NEW

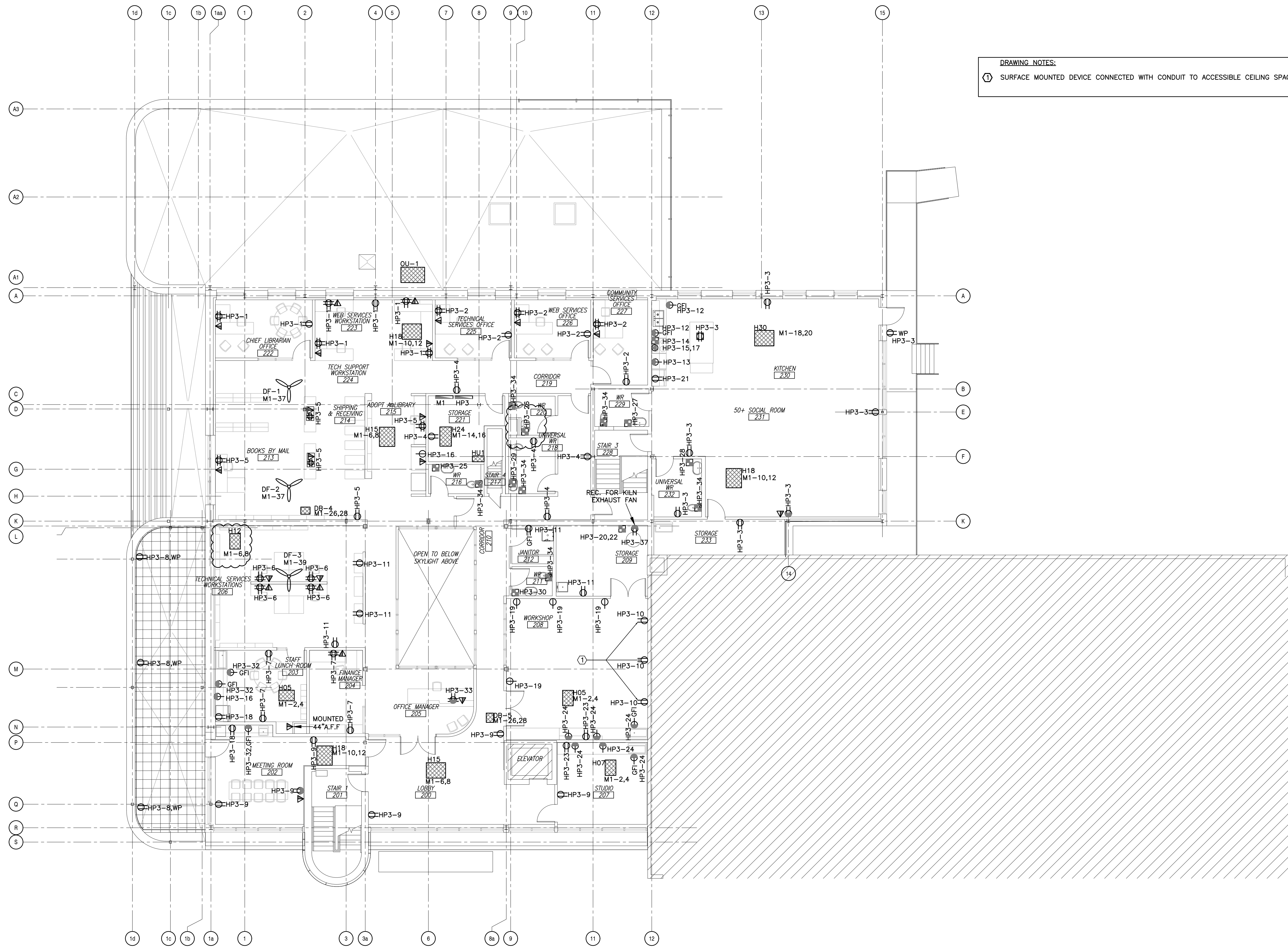
Scale Project number  
AS NOTED 23-025

|          |         |          |
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| Drawn By | Checked | Approved |
| LM       | PMM     | PMM      |

Drawing Number



E-115

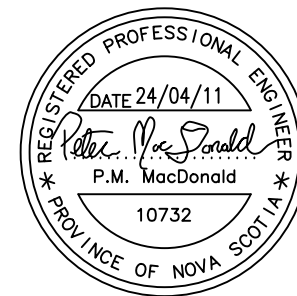


DRAWING NOTES:

① SURFACE MOUNTED DEVICE CONNECTED WITH CONDUIT TO ACCESSIBLE CEILING SPACE.

1 LVL 2-PWR & COMMS.-NEW  
E-115 1/8"=1'





| Revisions |                   |            |
|-----------|-------------------|------------|
| NO.       |                   | DATE       |
| 1         | ISSUED FOR TENDER | 2024-02-29 |
| 2         | ADDENDUM 1        | 2024-04-11 |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

ROOF-POWER -NEW

Scale  
AS NOTED

Project number  
23-025

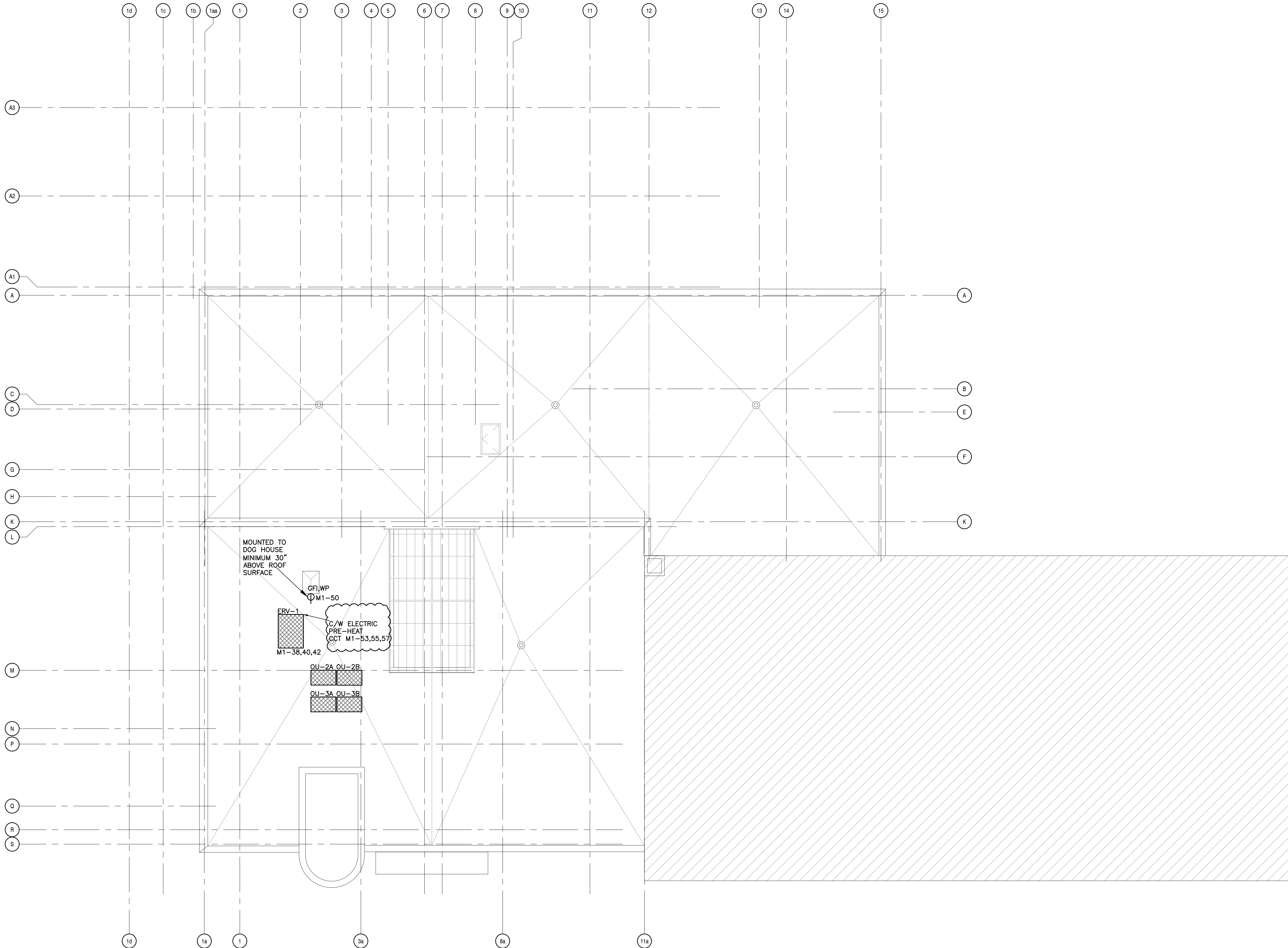
Drawn By  
LM

Checked  
PMM

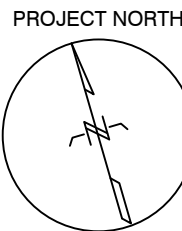
Approved  
PMM

Drawing Number

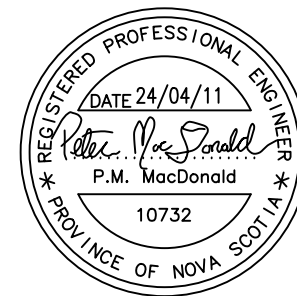
E-116



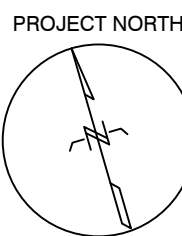
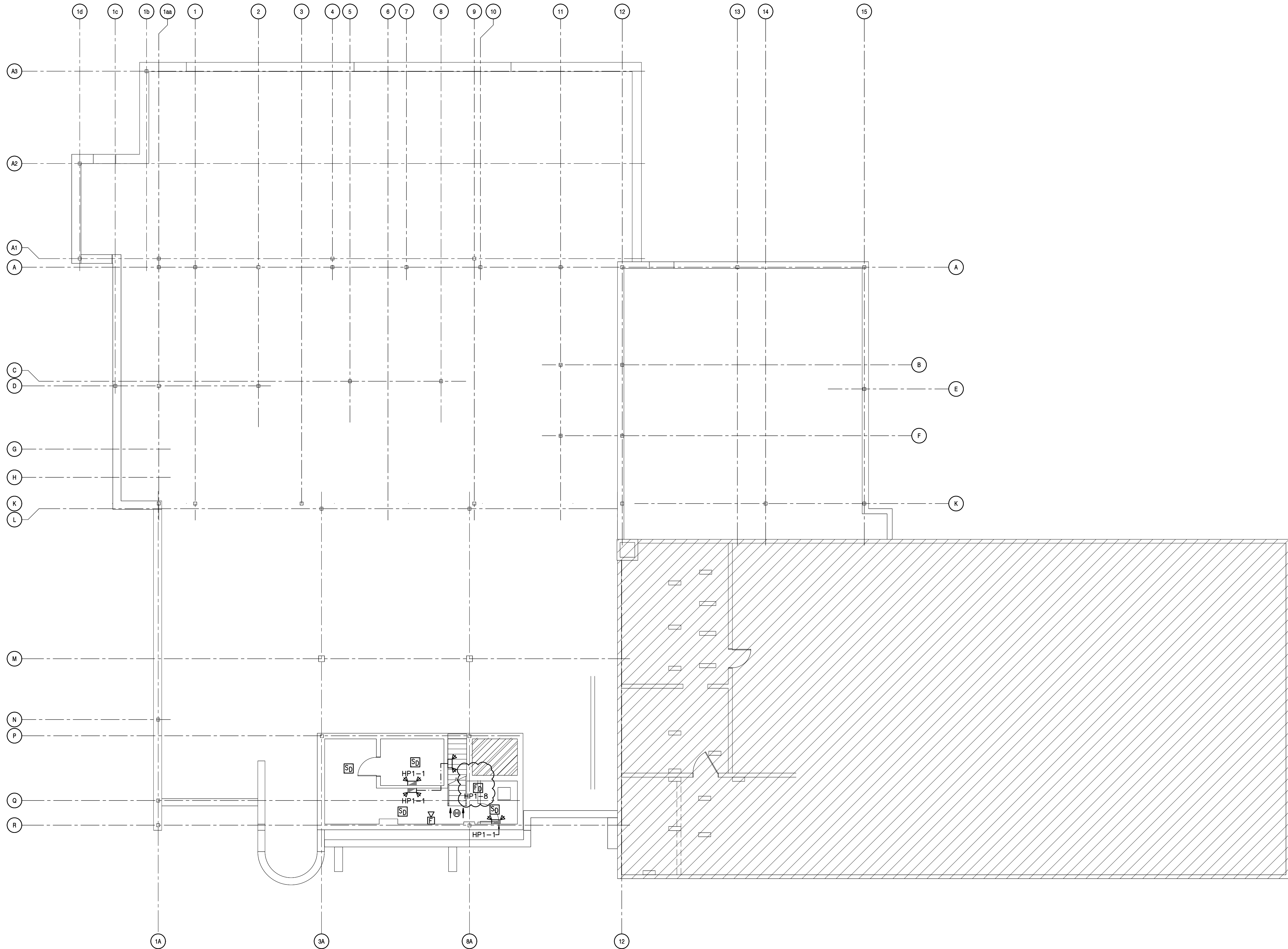
1 ROOF-PWR -NEW  
E-116 1/8"=1'



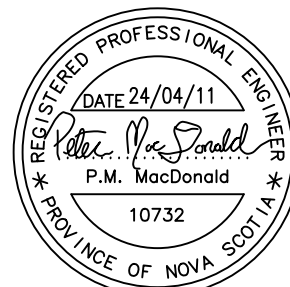




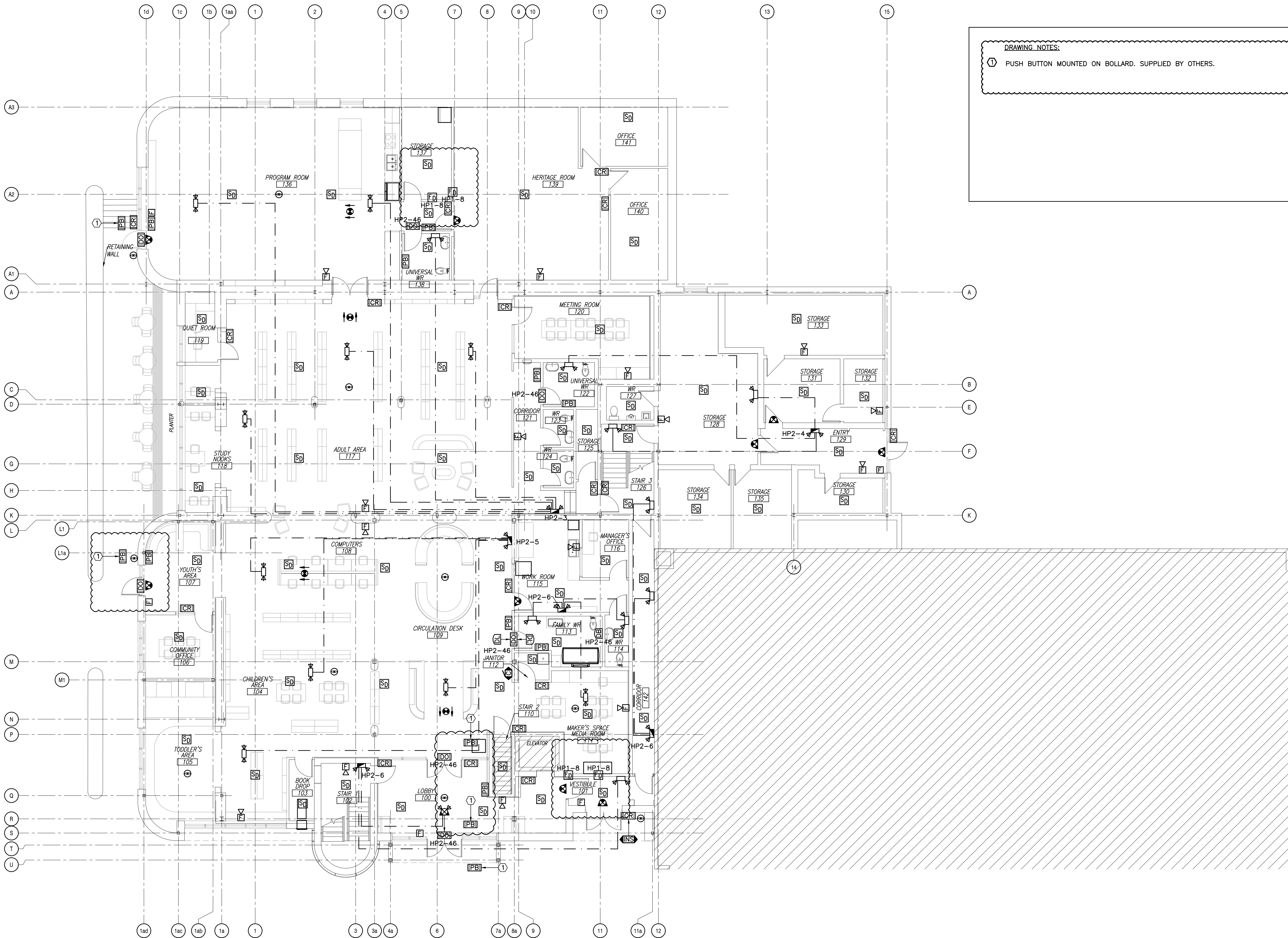
| NO. | DATE       |                   |
|-----|------------|-------------------|
| 1   | 2024-02-29 | ISSUED FOR TENDER |
| 2   | 2024-04-11 | ADDENDUM 1        |



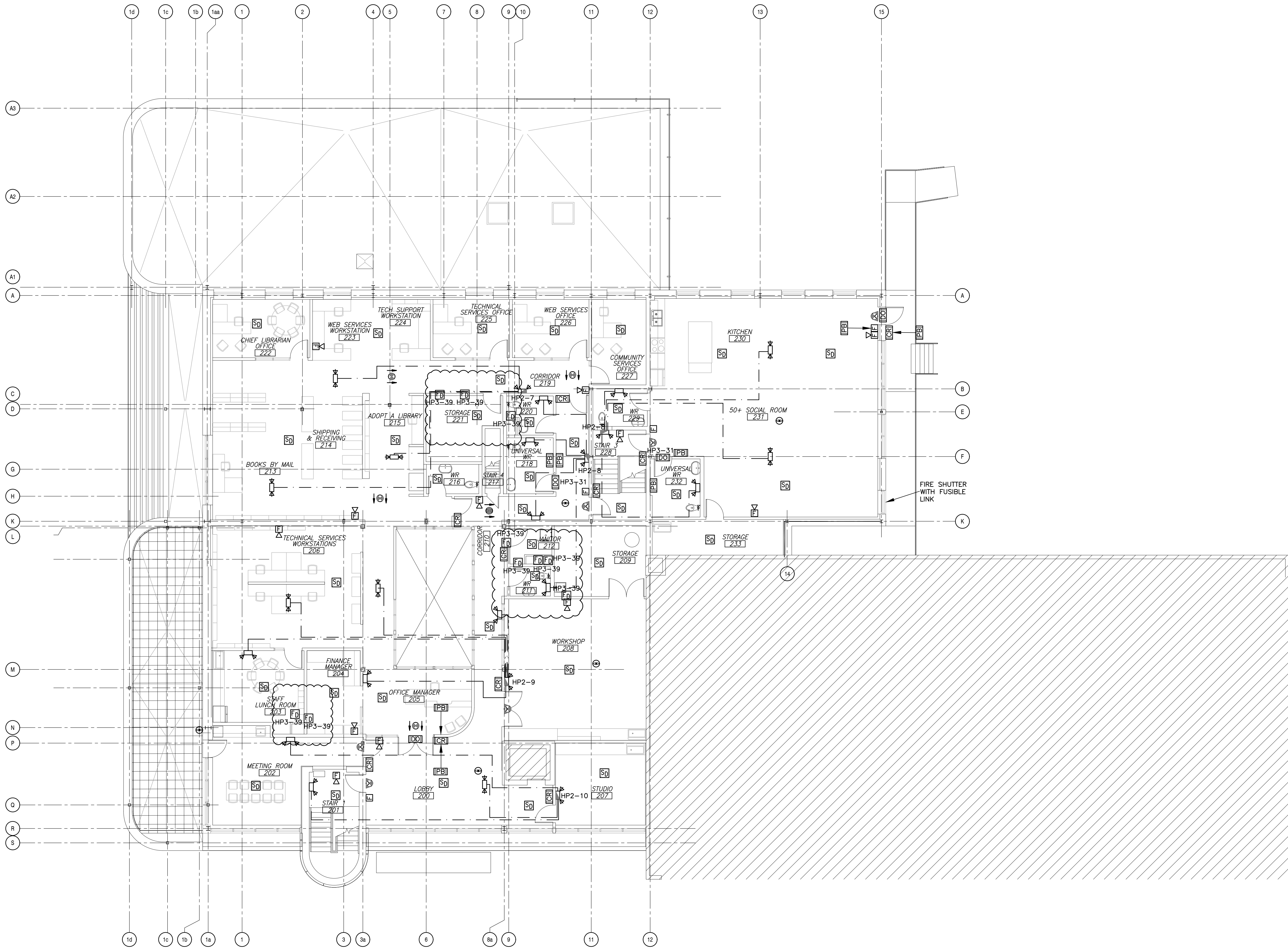




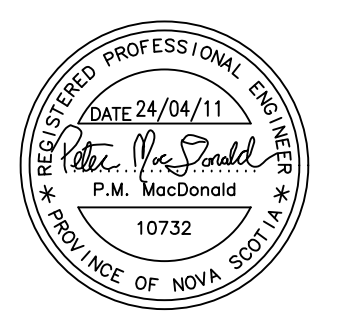
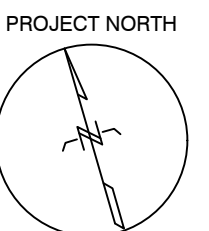
| NO. | DATE              |
|-----|-------------------|
| 1   | ISSUED FOR TENDER |
| 2   | ADDENDUM 1        |







1 LVL 2-SYSTEMS-NEW  
E-119 1/8"=1'



| Revisions |            |                   |
|-----------|------------|-------------------|
| NO.       | DATE       |                   |
| 1         | 2024-02-29 | ISSUED FOR TENDER |
| 2         | 2024-04-11 | ADDENDUM 1        |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

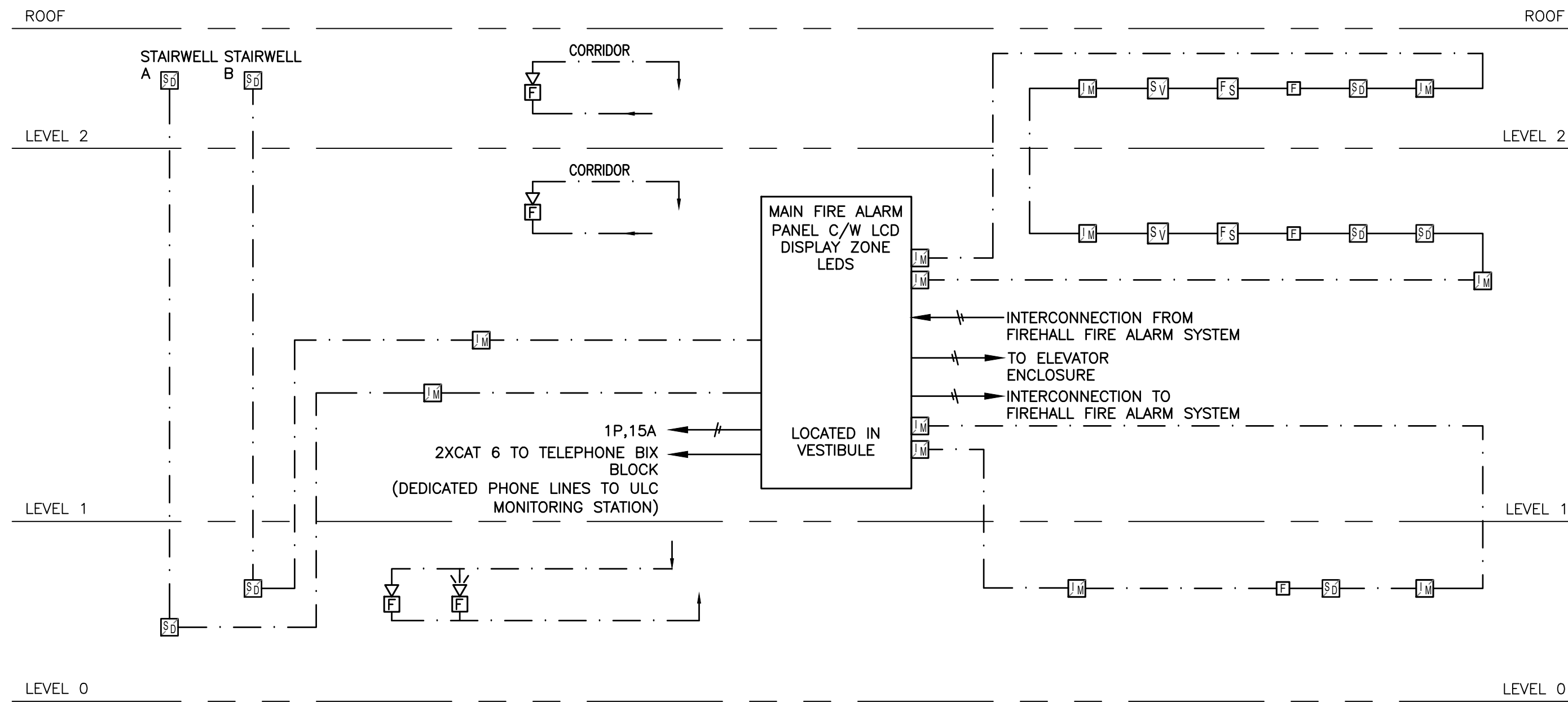
LEVEL2  
SYSTEMS-NEW

Scale  
AS NOTED  
Project number  
23-025

Drawn By  
LM  
Checked  
PMM  
Approved  
PMM

Drawing Number

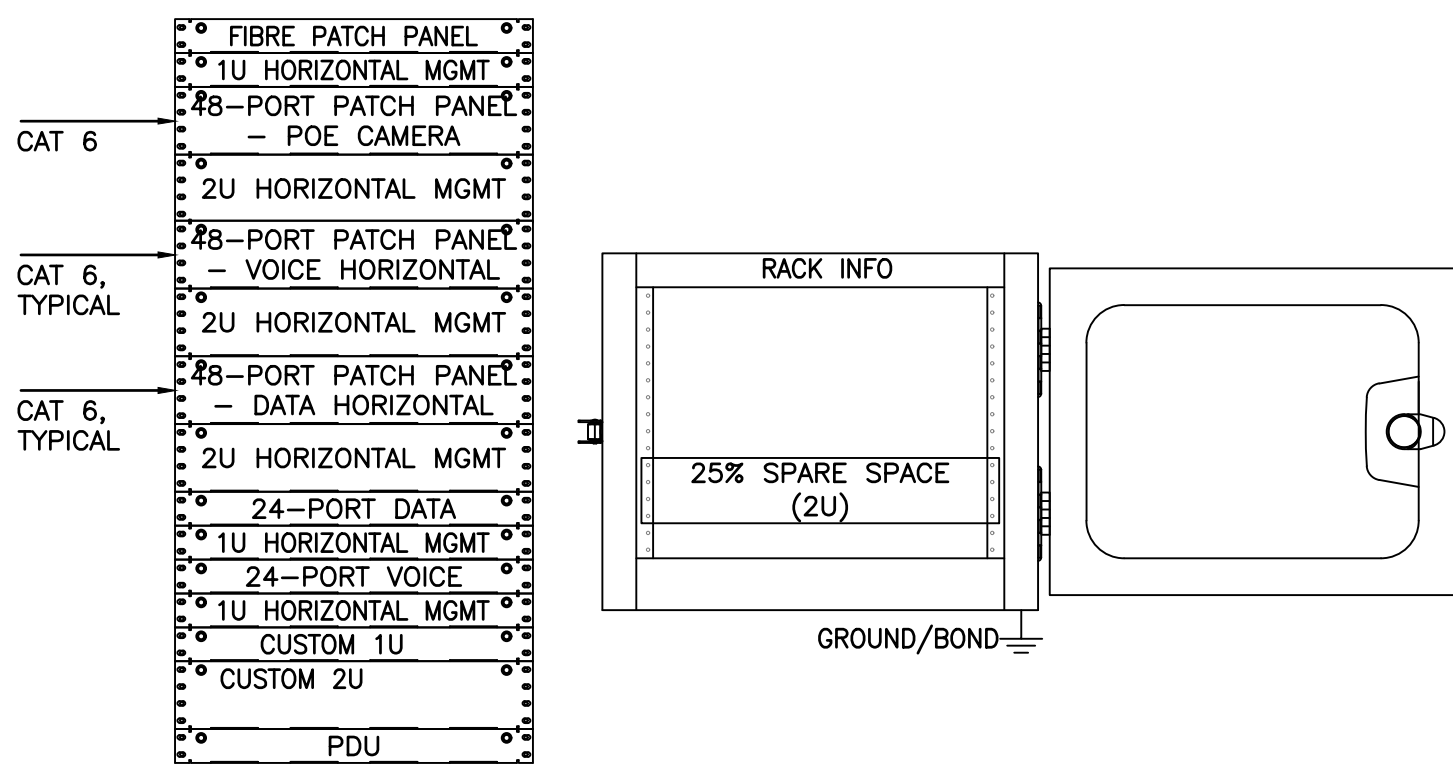




- NOTES:
1. RISER DIAGRAM IS PROVIDED FOR GENERAL REPRESENTATION ONLY. QUANTITY OF DEVICES TO BE DETERMINED FROM FLOOR PLANS UNLESS OTHERWISE INDICATED.
  2. PROVIDE FOUR (4) FIRE ALARM RELAYS AT EACH ELEVATOR CONTROLLER.
  3. EXACT WIRING REQUIREMENTS TO BE CONFIRMED AND PROVIDED AS PER FIRE ALARM MANUFACTURER'S RECOMMENDATION.
  4. FIRE ALARM MANUFACTURER SHALL PRODUCE A WIRING DIAGRAM FOR CONTRACTOR AND ENGINEER PRIOR TO ROUGH-IN.
  5. PROVIDE GMS UNIVERSAL ALARM COMMUNICATOR FOR BACKUP COMMUNICATIONS TO ULC STATION.

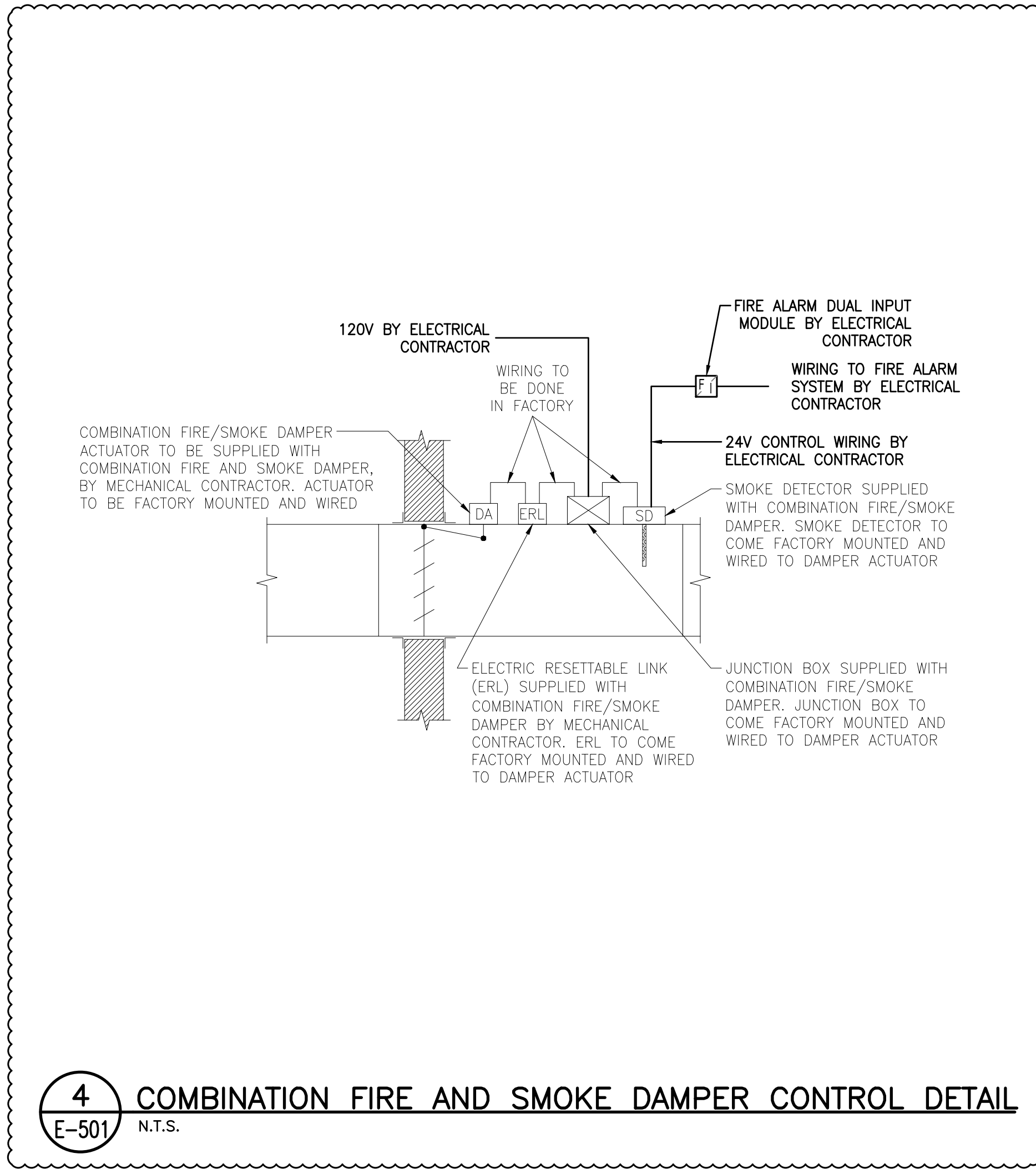
### 1 FIRE ALARM RISER DETAIL

E-501 N.T.S.



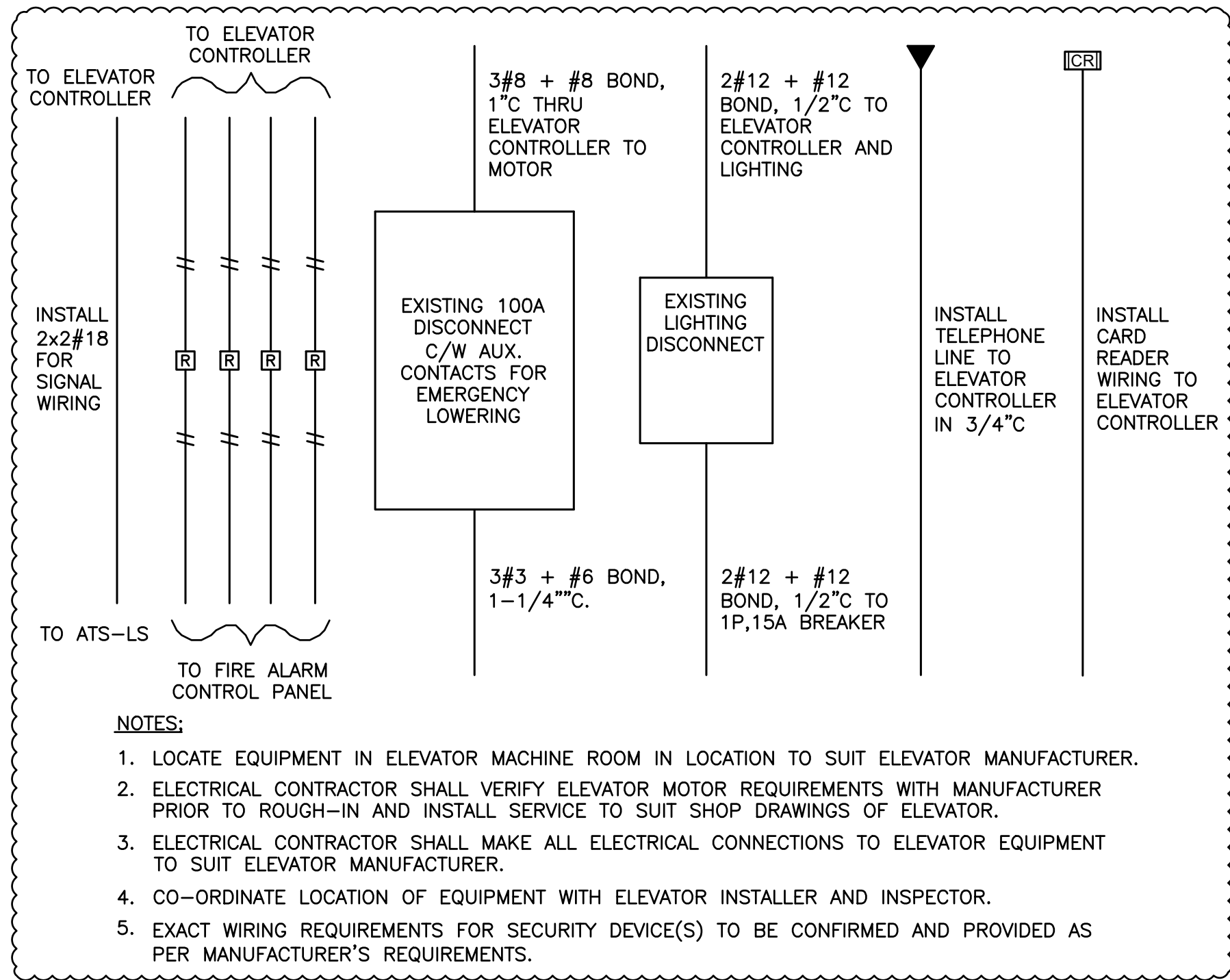
### 3 WALL MOUNTED COMMUNICATION RACK DETAILS

E-501 N.T.S.



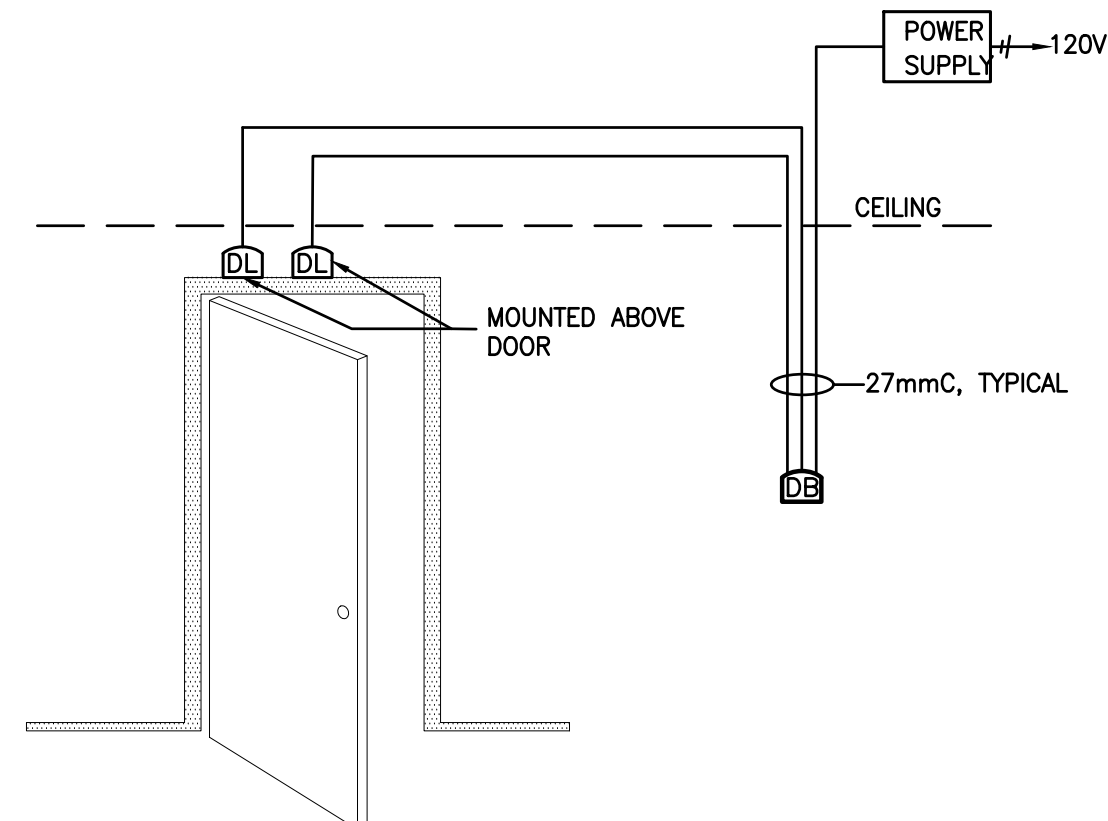
### 4 COMBINATION FIRE AND SMOKE DAMPER CONTROL DETAIL

E-501 N.T.S.



### 2 CONNECTION TO EXISTING ELEVATOR

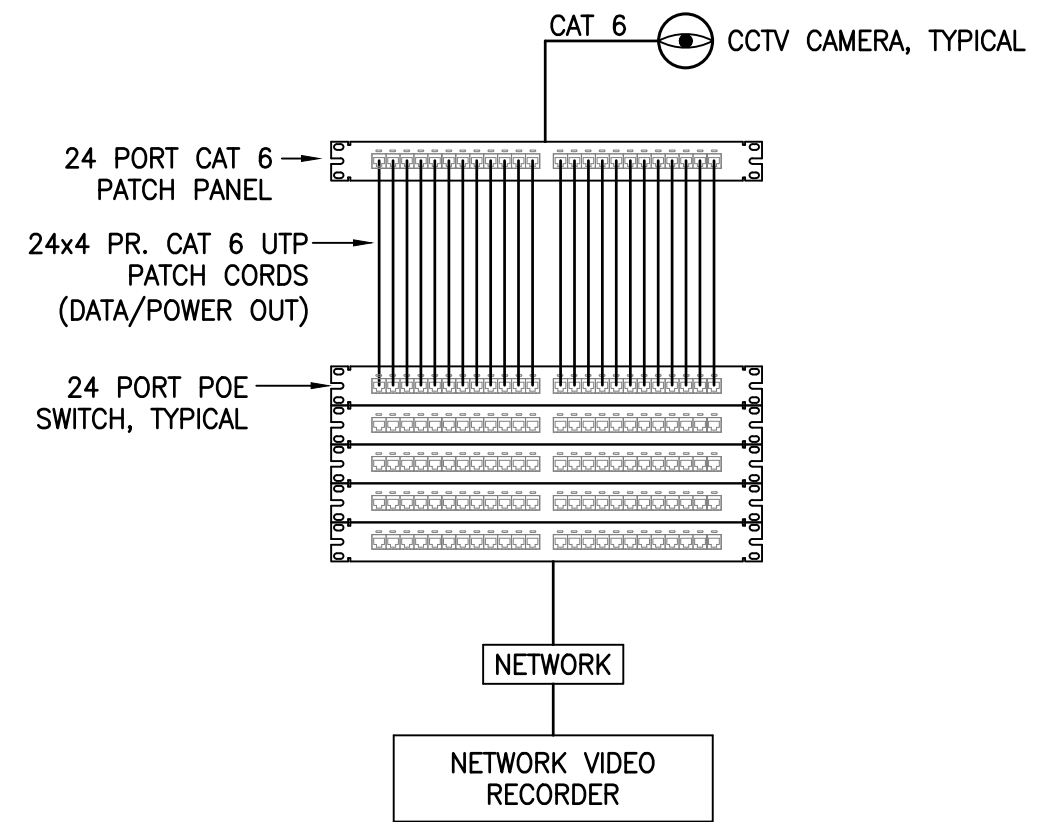
E-501 N.T.S.



- NOTES:
1. POWER SUPPLY TO BE ADEQUATE TO SUPPLY BOTH DOME LIGHT/SOUNDERS IN PARALLEL.
  2. REFER TO MANUFACTURERS INFORMATION FOR WIRING REQUIREMENTS.

### 5 DURESS SIGNAL DETAIL

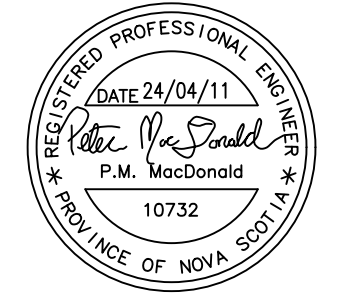
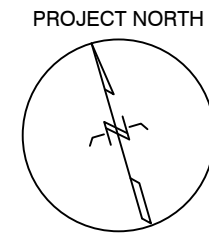
E-501 N.T.S.



- NOTES:
1. REFER TO FLOOR PLANS FOR CAMERA LOCATIONS AND QUANTITIES.
  2. EQUIPMENT SHALL BE RACK MOUNTED IN COMMUNICATIONS ROOM.
  3. ALL CAMERAS ON EXTERIOR SHALL BE IP66 RATED AND VANDAL PROOF.

### 6 VIDEO SURVEILLANCE RISER DIAGRAM

E-501 N.T.S.



| Revisions |                   | DATE       |
|-----------|-------------------|------------|
| NO.       |                   |            |
| 1         | ISSUED FOR TENDER | 2024-02-29 |
| 2         | ADDENDUM 1        | 2024-04-11 |

Project  
NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

## ELECTRICAL DETAILS I

Scale  
AS NOTED

Project number  
23-025

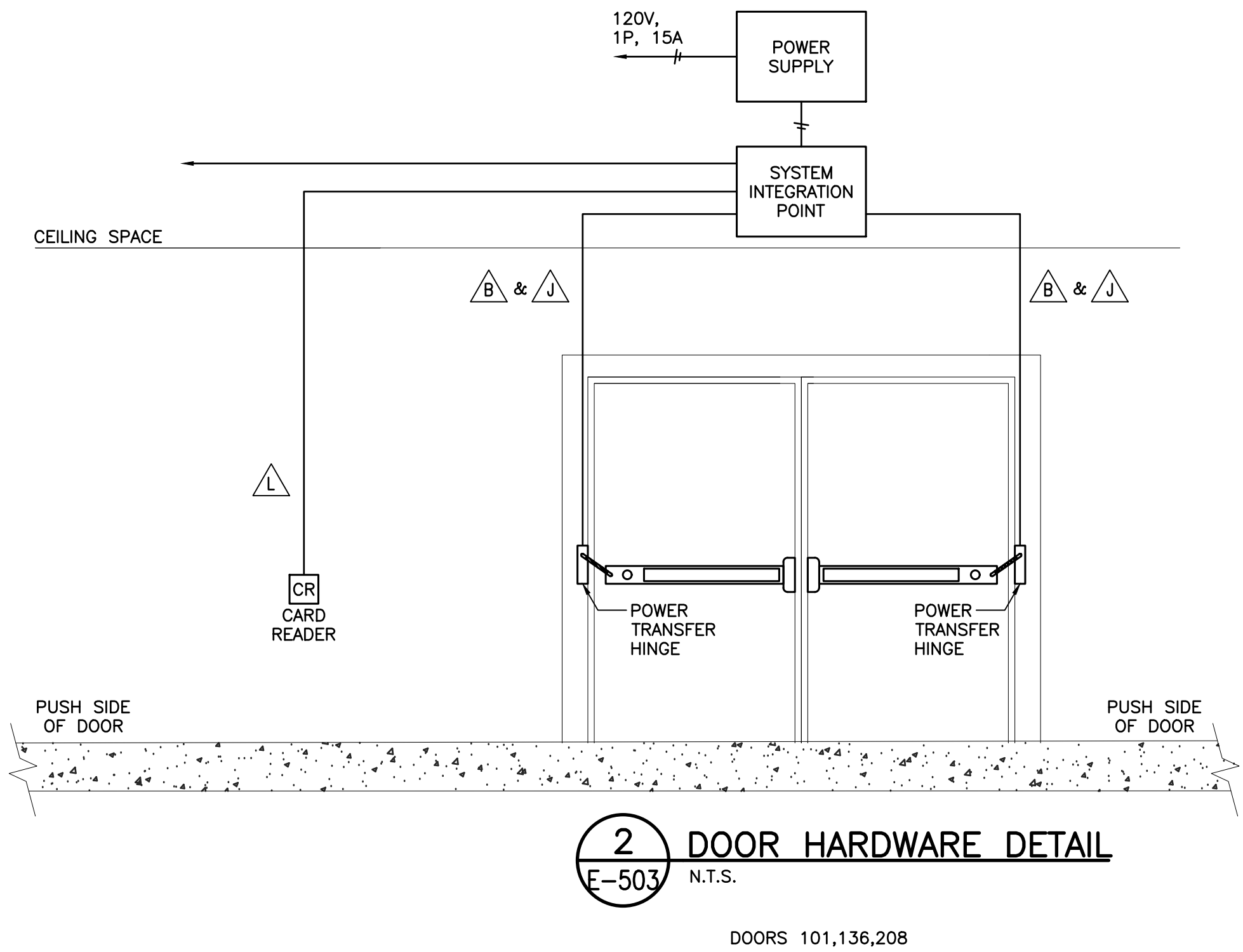
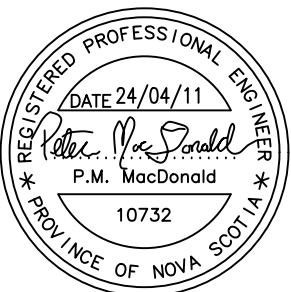
Drawn By  
LM

Checked  
PMM

Approved  
PMM

Drawing Number





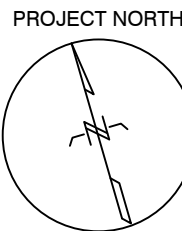
| WIRE LEGEND |                            |                                                              |
|-------------|----------------------------|--------------------------------------------------------------|
| A           | 2x22 AWG                   | EXAMPLE:<br>2(A),K<br>= 2x22 AWG<br>+ 2x22 AWG<br>+ 6x18 AWG |
| B           | 4x22 AWG                   |                                                              |
| C           | 6x22 AWG                   |                                                              |
| D           | 8x22 AWG                   |                                                              |
| E           | 10x22 AWG                  | WIRE MUST BE<br>STRANDED<br>MULTI-COLOUR                     |
| G           | 12x22 AWG                  |                                                              |
| H           | 2x18 AWG                   |                                                              |
| J           | 4x18 AWG                   |                                                              |
| K           | 6x18 AWG                   | 7x22 AWG TWISTED, SHIELDED                                   |
| L           | 7x22 AWG TWISTED, SHIELDED |                                                              |
| M           | 2x24 AWG                   |                                                              |

| PANEL:       |             | RP1                 |                                      | LOCATION:        |                   | FLUSH MTD:                  |     |     |    |                             |     |     |
|--------------|-------------|---------------------|--------------------------------------|------------------|-------------------|-----------------------------|-----|-----|----|-----------------------------|-----|-----|
| CAPACITY:    |             |                     |                                      | ROOM:            |                   | SURFACE MTD:                |     |     |    |                             |     |     |
| INC          |             | - INCANDESCENT      |                                      | MLV              |                   | - MAGNETIC LOW VOLTAGE      |     | DS  |    | - DAYLIGHT SENSOR           |     |     |
| INCD         |             | - INCANDESCENT DIM. |                                      | ELV              |                   | - ELECTRONIC LOW VOLTAGE    |     | LVS |    | - LOW VOLTAGE SWITCH        |     |     |
| FLS          |             | - FLUORESCENT       |                                      | HID              |                   | - HIGH INTENSITY DISCHARGE  |     | LVD |    | - LOW VOLTAGE DIM.          |     |     |
| FLSD         |             | - FLUORESCENT DIM.  |                                      | OS               |                   | - OCCUPANCY SENSOR          |     | DCS |    | - DIMMER CONTROL STATION    |     |     |
| SCS          |             | - SHADE CONTROL     |                                      | CCI              |                   | - CONTACT CLOSURE INTERFACE |     | PCS |    | - PARTITION CONTROL STATION |     |     |
| TS           |             | - TIME SWITCH       |                                      |                  |                   |                             |     |     |    |                             |     |     |
| LTC PNL NAME | CIRCUIT No. | RELAY No.           | DESIGNATION                          | DIMMING PROTOCOL | SWITCHING/CONTROL |                             |     |     |    |                             |     |     |
|              |             |                     |                                      |                  | LOCAL             |                             |     |     |    |                             |     |     |
|              |             |                     |                                      |                  | OS                | DS                          | LVS | LVD | TS | DCS                         | SCS | PCS |
| .            | 6           | 1                   | LOBBY:100-L9                         | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 2                   | VESTIBULE:101-L8                     | .                | X                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 5           | 3                   | STAIR:102-L11                        | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 5           | 4                   | BOOK DROP:103-L8                     | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 5           | 5                   | CHILDRENS AREA&COMPUTERS-L8,L11,L18  | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 3           | 6                   | ADULT AREA:117-L11,L12,L13A,L13C,L18 | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 5           | 7                   | TODDLERS AREA:105-L8,L11,L22         | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 5           | 8                   | COMMUNITY OFFICE:106-L9              | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 5           | 9                   | YOUTH AREA:107-L3,L11                | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 3           | 10                  | STUDY NOOKS:118-L3                   | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 3           | 11                  | STUDY NOOKS:118-L15                  | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 3           | 12                  | QUIET ROOM:-119                      | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 1           | 13                  | PROGRAM ROOM:136-L9                  | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 1           | 14                  | PROGRAM ROOM:136-L5                  | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 2           | 15                  | STORAGE:137                          | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 2           | 16                  | UNIVERSAL WR:138-L8                  | .                | X                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 2           | 17                  | HERITAGE ROOM:139-L9                 | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 2           | 18                  | OFFICE:141-L8                        | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 2           | 19                  | OFFICE:140-L8                        | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 4           | 20                  | MEETING ROOM:120-L6                  | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 4           | 21                  | MEETING ROOM:120-L5                  | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 4           | 22                  | CORRIDOR:121-L8                      | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 4           | 23                  | UNIVERSAL WR:122-L7,L8               | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 4           | 24                  | WASH ROOM:123-L7,L8                  | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 4           | 25                  | WASH ROOM:124-L7,L8                  | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 4           | 26                  | STORAGE:125-L8                       | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 27                  | WORK ROOM:115-L8,L9                  | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 28                  | MANAGERS OFFICE:116-L8               | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 6           | 29                  | FAMILY WR:113-L8,L14                 | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 30                  | WR:114-L7,L8                         | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 31                  | JANITOR:112-L8                       | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 32                  | MAKERS SPACE:111-L11                 | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 6           | 33                  | CORRIDOR:142-L19                     | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |
| .            | 6           | 34                  | CIRCULATION DESK:109-L24             | .                | .                 | .                           | X   | .   | .  | .                           | .   | .   |
| .            | 4           | 35                  | STORAGE:128-L2                       | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 4           | 36                  | STAIR:126-L2                         | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 53          | 37                  | STORAGE:130,131,132,133,134,135      | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 53          | 38                  | ENTRY:129                            | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | HP1-1       | 39                  | BASEMENT:L26,L27                     | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 11          | 40                  | EXTERIOR LIGHTS:L25                  | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 11          | 41                  | EXTERIOR LIGHTS                      | .                | .                 | .                           | .   | .   | .  | .                           | .   | .   |
| .            | 11          | 42                  | WR:127                               | .                | .                 | X                           | .   | .   | .  | .                           | .   | .   |

- ① CIRCUITS TO PANEL HP2  
② MASTER CONTROL TO CONTROL ALL RELAYS ON/OFF.

| PANEL:       |             | RP2               |                                  | LOCATION:        |                           | FLUSH MTD:   |     |                           |    |     |     |     |
|--------------|-------------|-------------------|----------------------------------|------------------|---------------------------|--------------|-----|---------------------------|----|-----|-----|-----|
| CAPACITY:    |             | .                 |                                  | ROOM:            |                           | SURFACE MTD: |     |                           |    |     |     |     |
|              |             |                   |                                  |                  |                           |              |     |                           |    |     |     |     |
| INC          | -           | INCANDESCENT      | MLV                              | -                | MAGNETIC LOW VOLTAGE      | DS           | -   | DAYLIGHT SENSOR           |    |     |     |     |
| INCD         | -           | INCANDESCENT DIM. | ELV                              | -                | ELECTRONIC LOW VOLTAGE    | LVS          | -   | LOW VOLTAGE SWITCH        |    |     |     |     |
| FLS          | -           | FLUORESCENT       | HID                              | -                | HIGH INTENSITY DISCHARGE  | LVD          | -   | LOW VOLTAGE DIM.          |    |     |     |     |
| FLSD         | -           | FLUORESCENT DIM.  | OS                               | -                | OCCUPANCY SENSOR          | DCS          | -   | DIMMER CONTROL STATION    |    |     |     |     |
| SCS          | -           | SHADE CONTROL     | CCI                              | -                | CONTACT CLOSURE INTERFACE | PCS          | -   | PARTITION CONTROL STATION |    |     |     |     |
| TS           | -           | TIME SWITCH       |                                  |                  |                           |              |     |                           |    |     |     |     |
| LTC PNL NAME | CIRCUIT No. | RELAY No.         | DESIGNATION                      | DIMMING PROTOCOL | SWITCHING/CONTROL         |              |     |                           |    |     |     |     |
|              |             |                   |                                  |                  | LOCAL                     |              |     |                           |    |     |     |     |
|              |             |                   |                                  |                  | OS                        | DS           | LVS | LVD                       | TS | DCS | SCS | PCS |
| .            | 10          | 1                 | LOBBY:200-L8,L9                  | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 9           | 2                 | STAIR:201-L2,L6                  | .                | X                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 9           | 3                 | MEETING ROOM:202-L3,L8           | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 9           | 4                 | STAFF LUNCH ROOM:203-L2          | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 9           | 5                 | FINANCE MANAGER:204-L1           | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 9           | 6                 | WORKSTATIONS:206-L1              | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 9           | 7                 | OFFICE MANAGER:205-L3,L13B       | .                | X                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 9           | 8                 | OFFICE MANAGER:205-L20           | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 9                 | CORRIDOR:210-L8                  | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 10                | SHIPPING & RECEIVING:214-L1      | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 7           | 11                | CHIEF LIBRARIAN:222-L2           | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 7           | 12                | TECHNICAL SERVICES OFFICE:225-L2 | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 7           | 13                | WEB SERVICES OFFICE:226-L2       | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 7           | 14                | COMMUNITY SERVICES OFFICE:227-L2 | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 8           | 15                | KITCHEN:230-L1                   | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | 7           | 16                | STORAGE:221-L8                   | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 17                | WR:216-L7,L8                     | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 18                | STAIR:217-L19                    | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 19                | UNIVERSAL WR:218-L7,L8           | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 20                | WR:220:218-L7,L8                 | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 21                | CORRIDOR:210-L8                  | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 22                | CORRIDOR:219-L8                  | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 8           | 23                | WASH ROOM:229-L7,L8              | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 7           | 24                | STAIR:228-L2                     | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 8           | 25                | UNIVERSAL WASH ROOM:232-L7,L8    | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 8           | 26                | STORAGE:233-L8                   | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 27                | JANITOR:212-L8                   | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 28                | WASH ROOM:211-L8                 | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 29                | STORAGE:209-L1                   | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 30                | WORKSHOP:208-L16A                | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 31                | WORKSHOP:208-L16B                | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 32                | STUDIO:207-L1                    | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 10          | 33                | STUDIO:207-L16B                  | .                | .                         | X            | .   | .                         | .  | .   | .   | .   |
| .            | 9           | 34                | MEETING ROOM:202-L13A            | .                | .                         | .            | .   | X                         | .  | .   | .   | .   |
| .            | .           | 35                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 36                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 37                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 38                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 39                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 40                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 41                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |
| .            | .           | 42                | .                                | .                | .                         | .            | .   | .                         | .  | .   | .   | .   |

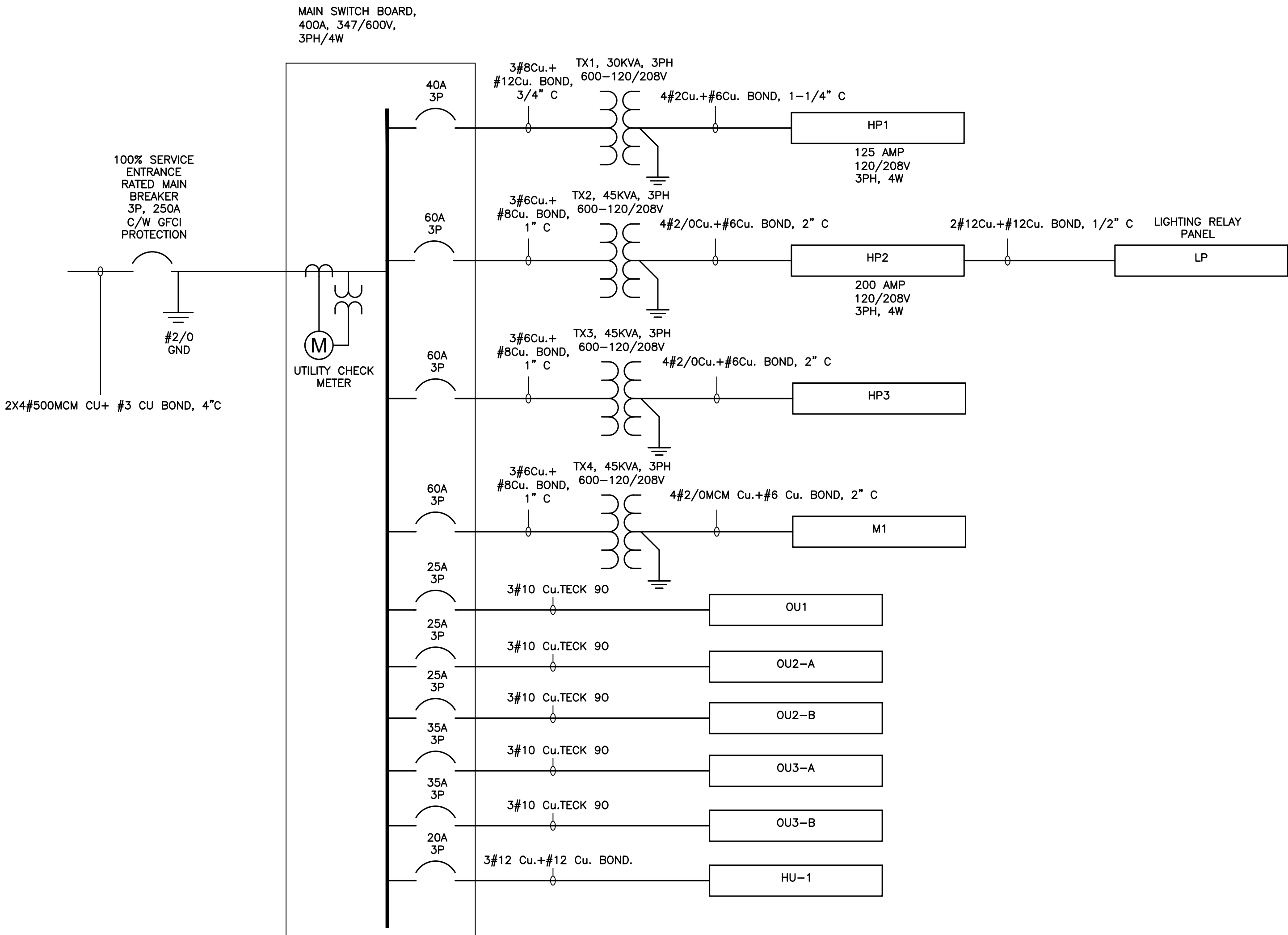
- ① CIRCUITS TO PANEL HP2  
② MASTER CONTROL TO CONTROL ALL RELAYS ON/OFF.





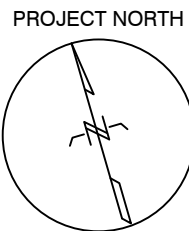
| LIGHTING FIXTURE SCHEDULE |                                 |         |                                                   |                                                                                                                               |                                       |
|---------------------------|---------------------------------|---------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| TYPE                      | DESCRIPTION                     | VOLTAGE | MOUNTING                                          | STANDARD OF QUALITY                                                                                                           | LAMPS                                 |
| L1                        | 4' LINEAR LED LIGHT FIXTURE     | 120V    | SUSPENDED<br>96" A.F.F.                           | SIGNIFY-LEADALITE-LINEAR-TRUEGROOVE-SUSPENDED<br>29-0-1-L-935-22-QN-04+D-E-1-N-NN-W<br>.                                      | 22.2W LED<br>2200LM/FT<br>3500K CCT   |
| L2                        | 4' LINEAR LED LIGHT FIXTURE     | 120V    | RECESSED<br>T-BAR                                 | SIGNIFY-LEADALITE-LINEAR-TRUEGROOVE-RECESSED<br>39-0-1-L-935-22-Q-S-1-04+D-E-1-N-NN-W<br>.                                    | 22W LED<br>2200LM/FT<br>3500K CCT     |
| L3                        | 12" PENDANT LED LIGHT FIXTURE   | 120V    | SUSPENDED<br>AT 86" A.F.F.                        | ET2 LIGHTING:ABYSS-E20084-MW<br>.                                                                                             | 30W LED<br>2100 LUMENS<br>3000K CCT   |
| L4                        | LINEAR STRIP LED LIGHT FIXTURE  | 120V    | SURFACE                                           | TWICE BRIGHT-TL SERIES<br>TL24HD-350-935-XX<br>.                                                                              | 4.4W/FT<br>427LM/FT<br>3500K CCT      |
| L5                        | 4" ROUND LED DOWN LIGHT FIXTURE | 120V    | RECESSED                                          | SIGNIFY-LIGHTOLIER-EASYLIGHT LED FLEX INSTALL<br>ZF6RDL-20-935-W-O-WH-Z10-U<br>.                                              | 20W LED<br>2000 LUMENS<br>3500K CCT   |
| L6                        | 24" PENDANT LED FIXTURE         | 120V    | SUSPENDED<br>AT 74"A.F.F.                         | 1003-XL-P-DI-AC80-90L-30K-U-D1-AC80-35K<br>+U-D1-WH<br>FO23-FITZFELT KORALLE FOR EXTERIOR AND INTERIOR<br>COULOR AND MATERIAL | 48W LED<br>9000 LUMENS<br>3000K CCT   |
| L7                        | 18" LED LIGHT FIXTURE           | 120V    | SURFACE-WALL<br>80" A.F.F.                        | ET2-LATITUDE-E23421-BLACK<br>.                                                                                                | 15W LED<br>1500 LUMENS<br>3500K CCT   |
| L8                        | 6" ROUND LED DOWN LIGHT FIXTURE | 120V    | RECESSED                                          | SIGNIFY-LIGHTOLIER-EASYLIGHT LED FLEX INSTALL<br>ZF6RDL-20-935-W-O-WH-Z10-U<br>.                                              | 19.6W LED<br>2000 LUMENS<br>3500K CCT |
| L9                        | 4' LINEAR LED LIGHT FIXTURE     | 120V    | RECESSED                                          | SIGNIFY-LEADALITE-TRUEGROOVE-RECESSED MICRO<br>23-0-1-L-935-L-W-20-S-1-04+D-E-1-N-NN<br>.                                     | 21W LED<br>2000 LUMENS<br>3500K CCT   |
| L10                       | 1' LED LIGHT FIXTURE            | 120V    | RECESSED-WALL<br>24" ABOVE<br>PAVER IN LVL 2      | TWICE BRIGHT-SW1202RH-3K-BL<br>.                                                                                              | 8.4W<br>480 LUMENS<br>3500K CCT       |
| L11                       | 4' LINEAR LED LIGHT FIXTURE     | 120V    | SUSPENDED<br>ALIGN TO<br>BOTTOM OF<br>METAL SLATS | SIGNIFY-LEADALITE-TRUEGROOVE-SUSPENDED<br>MICRO(LOUVER)<br>TM-O-1-L-935-N-S-W-F-F-20-N-NN-04+<br>D-E-1-N-NN-W                 | 17.2W LED<br>2000 LUMENS<br>3500K CCT |
| L12                       | 4' LINEAR LED LIGHT FIXTURE     | 120V    | SUSPENDED<br>ALIGN TO<br>BOTTOM OF<br>METAL SLATS | SIGNIFY-LEADALITE-TRUEGROOVE-SUSPENDED<br>MICRO(LOUVER)<br>TM-O-1-L-935-N-S-W-F-F-20-N-NN-02+<br>D-E-1-N-NN-W                 | 2000 LUMENS<br>3500K CCT              |
| L13A                      | LINEAR SUSPENDED LED LIGHT      | 120V    | SUSPENDED<br>104" A.F.F.                          | KLUS:GIZA-DUO-LL EXTRUSION WITH LIGER 22<br>COVER+K-CR-30-1820-HD-24V+MAX-5-300-24V<br>.                                      | 5.6W/FT<br>492LM/FT<br>300K CCT       |
| L13B                      | LINEAR SUSPENDED LED LIGHT      | 120V    | SUSPENDED<br>108" A.F.F.                          | KLUS:GIZA-DUO-LL EXTRUSION WITH LIGER 22<br>COVER+K-CR-30-1820-HD-24V+MAX-5-300-24V<br>.                                      | 5.6W/FT<br>492LM/FT<br>300K CCT       |
| L13C                      | LINEAR SUSPENDED LED LIGHT      | 120V    | SUSPENDED<br>108" A.F.F.                          | KLUS:GIZA-DUO-LL EXTRUSION WITH LIGER 22<br>COVER+K-CR-30-1820-HD-24V+MAX-5-300-24V<br>.                                      | 5.6W/FT<br>492LM/FT<br>300K CCT       |
| L14                       | 24" LED LIGHT FIXTURE           | 120V    | SURFACE-WALL                                      | ET2-LATITUDE-E23422-BLACK<br>.                                                                                                | 15W LED<br>2000 LUMENS<br>3500K CCT   |
| L15                       | LED DESK MOUNTED LIGHT FIXTURE  | 120V    | DESK MOUNT                                        | KONCEPT:SOBRE TASK LIGHT<br>SF1-46-16"-3000-MTB-THR-ODC<br>.                                                                  | 3.6W/FT LED<br>175LM/FT<br>3000K CCT  |
| L16A                      | LED TRACK LIGHT                 | 120V    | SUSPENDED<br>AT 120" A.F.F.                       | LUMEN WARM:ALINA INSERT WHITE FROSTED<br>LWAL-INS-CU-12-MBK-HPC-700-27K<br>.                                                  | 12W LED<br>3000K CCT                  |
| L16B                      | LED TRACK LIGHT                 | 120V    | SUSPENDED<br>AT 120" A.F.F.                       | LUMEN WARM:ALINA 1201<br>LWAL-1201-MBK-36-40K<br>.                                                                            | 12W LED<br>3000K CCT                  |
| L17                       | LINEAR STRIP LED LIGHT FIXTURE  | 120V    | SURFACE                                           | KLUS LED STRIP: K-NF-0780-24V<br>.                                                                                            | 2.4W/FT LED<br>175LM/FT<br>3500K CCT  |
| L18                       | LINEAR STRIP LED LIGHT FIXTURE  | 120V    | SURFACE                                           | KLUS LED STRIP: K-NFM-0720-24V-5M<br>.                                                                                        | 2.2W/FT<br>198LM/FT<br>3500K CCT      |
| L19                       | 2' LINEAR LED LIGHT FIXTURE     | 120V    | SURFACE-WALL                                      | SIGNIFY-LEADALITE-TRUEGROOVE-WALL<br>29-2-1-L-935-22-WN-02+D-E-1-N-NN-W-D-WA<br>.                                             | 22.2W LED<br>2200 LUMENS<br>3500K CCT |
| L20                       | 4' LINEAR LED LIGHT FIXTURE     | 120V    | SURFCE<br>304" A.F.F                              | SIGNIFY-LEADALITE-TRUEGROOVE-SUSPENDED<br>MICRO(LOUVER)<br>TM-O-1-L-935-Q-S-W-N-N-20-N-NN-08+<br>D-E-1-N-NN-W-A-1-24          | 34.4W LED<br>2000LM/FT<br>3000 K CCT  |

| LIGHTING FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |         |                       |                                                                                                |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|-----------------------|------------------------------------------------------------------------------------------------|---------------------------------------|
| TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DESCRIPTION                    | VOLTAGE | MOUNTING              | STANDARD OF QUALITY                                                                            | LAMPS                                 |
| L21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6" ROUND LED FIXTURE           | 120V    | RECESSED              | SIGNIFY-LIGHTOLIER-EASYLIGHT LED FLEX INSTALL<br>ZF6RDL-20-935-W-O-WH-Z10-U<br>C/W WITH GASKET | 19.6W LED<br>2000 LUMENS<br>3500K CCT |
| L22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24" ROUND LED LIGHT FIXTURE    | 120V    | SURFACE<br>74" A.F.F. | ARANCIA:W30021-24-LW-A-1-0-WH<br>.                                                             | 36W LED<br>2910 LUMEN<br>.            |
| L23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LED LIGHT FIXTURE              | 120V    | SURFACE WALL          | MAXIM LIGHTING-GATEWAY-51117BK<br>.                                                            | 9W LED<br>980 LUMENS<br>3000L CCT     |
| L24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINEAR STRIP LED LIGHT FIXTURE | 120V    | SURFACE WALL          | KLUS LED STRIP: K-NF-50-1220-24V-5M<br>.                                                       | 9.6W/M LED<br>685 LUMENS<br>3000K CCT |
| L25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINEAR STRIP LED LIGHT FIXTURE | 120V    | SURFACE WALL          | KLUS LED STRIP: K-NF-0780-24V-RGB<br>.                                                         | 9W LED<br>980 LUMENS<br>3000K CCT     |
| L26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINEAR LED LIGHT               | 120V    | SURFACE               | SIGNIFY:FLUXSTREAM STRIP<br>FSS-4-20L-835-UNV                                                  | 9W LED<br>980 LUMENS<br>3000K CCT     |
| L26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINEAR LED LIGHT               | 120V    | SURFACE               | SIGNIFY:FLUXSTREAM STRIP<br>FSS-8-20L-835-UNV                                                  | 9W LED<br>980 LUMENS<br>3000K CCT     |
| <b>NOTES:</b><br>1. ALL MEASUREMENTS INDICATED ON LIGHTING PLANS ARE APPROXIMATE. ELECTRICAL CONTRACTOR IS REQUIRED TO MAKE FIELD MEASUREMENTS BASED ON ACTUAL SITE CONDITIONS TO DEVELOP COMPLETE ORDERS AND INSTALL SYSTEMS PER DRAWINGS AND SPECIFICATIONS.<br>2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL RUN LENGTH CONFIGURATIONS AND QUANTITIES. ALL CONTINUOUS RUN LENGTHS MUST BE CONTINUOUSLY ILLUMINATED, HAIRLINE SEAMS ONLY, UNLESS OTHERWISE NOTED.<br>3. ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES, LAMP TYPES, FIELD MEASUREMENTS, ETC AS REQUIRED.<br>4. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL MOUNTING CONDITIONS AND PROVIDE ALL HARDWARE NECESSARY TO COMPLETE INSTALLATION FOR FULL SYSTEM OPERATION.<br>5. ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING, COORDINATED WITH ARCHITECTURAL/INTERIOR DESIGN DRAWINGS PRIOR TO PURCHASE OF FIXTURES.<br>6. ELECTRICAL CONTRACTOR MUST COMPLY WITH MAXIMUM DO NOT EXCEED REMOTE DISTANCE OF POWER SUPPLIES PER MANUFACTURERS RECOMMENDATION. ALL REMOTE TRANSFORMERS SHALL BE LOCATED AT AN ACCESSIBLE, SOUND ATTENUATED AND VENTILATED LOCATION.<br>7. ALL LIGHTING FIXTURE FINISHES TO BE REVIEWED AND APPROVED BY ARCHITECT/INTERIOR DESIGN CONSULTANT DURING SHOP DRAWINGS. |                                |         |                       |                                                                                                |                                       |



1  
E601

SINGLE LINE DIAGRAM  
N.T.S.



Fathom

Fathom Studio  
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40 King St  
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B2Y 2R4

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Client

TOWN OF NEW GLASGOW

Key Plan

Scale: N.T.S.

Seal



Revisions

| NO. |                   | DATE       |
|-----|-------------------|------------|
| 1   | ISSUED FOR TENDER | 2024-02-29 |
| 2   | ADDENDUM 1        | 2024-04-11 |

Project

NEW GLASGOW LIBRARY & PARL  
HEADQUARTERS REVITALIZATION

182 DALHOUSIE STREET  
NEW GLASGOW, NS

Drawing Name

ELECTRICAL-  
SLD & SCHEDULES

Scale

AS NOTED

Project number

23-025

Drawn By

LM

Checked

PMM

Approved

PMM

Drawing Number

E-601



MOTOR STARTER AND CONTROL LIST

|                                                                          |               |                            |                                                                                                                                  |                            |         |                                                                                                                      |                                          |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       |                                                  |                                 |                |  |                |  |  |  |                       |                 |  |  |
|--------------------------------------------------------------------------|---------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------|--------------------------------------------------|-----------------------|--------------------------------------------------|---------------------------------|----------------|--|----------------|--|--|--|-----------------------|-----------------|--|--|
| E-ELECTRICAL<br>M-MECHANICAL<br>A-ARCHITECTURAL<br>O-OTHERS<br>X-PROVIDE |               |                            | 1-VARIABLE SPEED DRIVE<br>2-INTERGRATED CONTROL PANEL<br>3-DIRECT CONNECTION<br>4-ENERGY MANAGEMENT SYSTEM<br>5-MOTORIZED DAMPER |                            |         | 6-LINE VOLTAGE THERMOSTAT<br>7-LOW VOLTAGE THERMOSTAT<br>8-REVERSE ACTING THERMOSTAT<br>9-CO SENSOR<br>10-KEY SWITCH |                                          |               | 11-SOLENOID<br>12-FIRE ALARM<br>13-FIRE ALARM SHUTDOWN<br>14-START - STOP<br>15-ON - OFF |                          |                                                                                                                         | 16-HAND-OFF-AUTO<br>17-PILOT LIGHT<br>18-CONTROL RELAY<br>19-CONTROL TRANSFORMER<br>20-AUXILIARY CONTACTS |                                         |                                                                | 21-TIME CLOCK<br>22-<br>23-<br>24-<br>25-                                              |                                                  |                       | 26-<br>27-<br>28-<br>29-<br>30-                  |                       |                                                  | 31-<br>32-<br>33-<br>34-<br>35- |                |  |                |  |  |  |                       |                 |  |  |
| EQUIPMENT INFORMATION                                                    |               |                            |                                                                                                                                  |                            |         |                                                                                                                      |                                          |               |                                                                                          | STARTER INFORMATION      |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       | LOCATE AT MOTOR                                  |                                 |                |  | REMOTE CONTROL |  |  |  |                       |                 |  |  |
| EQUIPMENT LABEL                                                          | LOCATION      | APPLICATION                | SUPPLIED UNDER<br>INSTALLED UNDER<br>WIRED UNDER                                                                                 | EQUIP. RATING<br>KW HP MCA | VOLTAGE | PHASE                                                                                                                | CCT NO. & BKR SIZE<br>OR MCC & FUSE SIZE | IN COVER      |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       | LOCATE AT MOTOR                                  |                       |                                                  |                                 | REMOTE CONTROL |  |                |  |  |  | FEEDER DETAILS        | EQUIPMENT LABEL |  |  |
|                                                                          |               |                            |                                                                                                                                  |                            |         |                                                                                                                      |                                          | MANUAL        | TOGGLE<br>KEY                                                                            | PUSHBUTON<br>PILOT LIGHT | MAGNETIC<br>COMBINATION<br>TWO SPEED<br>BREAKER TYPE<br>FUSE TYPE<br>CONTROL XFMR 120V<br>AUX. CONTACTS<br>2 N.O.2 N.C. | STOP - START<br>ON - OFF<br>HAND-OFF-AUTO<br>ON LIGHT-RED<br>NOTES                                        | CSA ENCL. TYPE<br>LEGEND ABOVE<br>NOTES | EDMAC SIZE<br>SUPPLIED UNDER<br>INSTALLED UNDER<br>WIRED UNDER | DISC. SWITCH<br>TOGGLE SWITCH<br>RECEPTACLE<br>CSA ENCL. TYPE<br>LEGEND ABOVE<br>NOTES | SUPPLIED UNDER<br>INSTALLED UNDER<br>WIRED UNDER | LEGEND ABOVE<br>NOTES | SUPPLIED UNDER<br>INSTALLED UNDER<br>WIRED UNDER | LEGEND ABOVE<br>NOTES | SUPPLIED UNDER<br>INSTALLED UNDER<br>WIRED UNDER |                                 |                |  |                |  |  |  |                       |                 |  |  |
| ERV-1                                                                    | ROOF          | ENERGY RECOVERY VENTILATOR | M M E                                                                                                                            | 7.2                        | 208     | 3                                                                                                                    | M1<br>15A,3P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#12Cu+#12 BOND, 3/4" | ERV-1           |  |  |
| ERV-2                                                                    | STORAGE 135   | ENERGY RECOVERY VENTILATOR | M M E                                                                                                                            | 1.6                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | ERV-2           |  |  |
| OU-1                                                                     | LEVEL 2       | OUTDOOR UNIT               | M M E                                                                                                                            | 21.6                       | 600     | 3                                                                                                                    | MSB<br>3P,25A                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#10 Cu TECK 90       | OU-1            |  |  |
| OU-2A                                                                    | ROOF          | OUTDOOR UNIT               | M M E                                                                                                                            | 21.6                       | 600     | 3                                                                                                                    | MSB<br>3P,25A                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#10 Cu TECK 90       | OU-2            |  |  |
| OU-2B                                                                    | ROOF          | OUTDOOR UNIT               | M M E                                                                                                                            | 216                        | 600     | 3                                                                                                                    | MSB<br>3P,25A                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#10 Cu TECK 90       | OU-2            |  |  |
| OU-3A                                                                    | ROOF          | OUTDOOR UNIT               | M M E                                                                                                                            | 28.5                       | 600     | 3                                                                                                                    | MSB<br>3P,35A                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#10 Cu TECK 90       | OU-3            |  |  |
| OU-3B                                                                    | ROOF          | OUTDOOR UNIT               | M M E                                                                                                                            | 28.5                       | 600     | 3                                                                                                                    | MSB<br>3P,35A                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#10 Cu TECK 90       | OU-3            |  |  |
| H05                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 0.8                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H05             |  |  |
| H07                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 0.8                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H07             |  |  |
| H12                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 0.7                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H12             |  |  |
| H15                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 1.4                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H15             |  |  |
| H18                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 1.6                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H18             |  |  |
| H24                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 1.8                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H24             |  |  |
| H30                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 1.6                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H30             |  |  |
| H36                                                                      |               | VRF-INDOOR UNIT            | M M E                                                                                                                            | 2.5                        | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | H36             |  |  |
| DF-1                                                                     | ROOM-213      |                            | M M E                                                                                                                            |                            | 120     | 1                                                                                                                    | M1<br>15A,1P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DF-1            |  |  |
| DF-2                                                                     | ROOM-213      |                            | M M E                                                                                                                            |                            | 120     | 1                                                                                                                    | M1<br>15A,1P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DF-2            |  |  |
| DF-3                                                                     | ROOM-206      |                            | M M E                                                                                                                            |                            | 120     | 1                                                                                                                    | M1<br>15A,1P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DF-3            |  |  |
| DB-1                                                                     |               | PIPING DISTRIBUTION BOX    | M M E                                                                                                                            | 0.4                        | 208     | 1                                                                                                                    | M1<br>15A, 2P                            |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DB-1            |  |  |
| DB-2                                                                     |               | PIPING DISTRIBUTION BOX    | M M E                                                                                                                            | 0.4                        | 208     | 1                                                                                                                    | M1<br>15A 2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DB-2            |  |  |
| DB-3                                                                     |               | PIPING DISTRIBUTION BOX    | M M E                                                                                                                            | 0.6                        | 208     | 1                                                                                                                    | M1<br>15A 2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DB-3            |  |  |
| DB-4                                                                     |               | PIPING DISTRIBUTION BOX    | M M E                                                                                                                            | 0.4                        | 208     | 1                                                                                                                    | M1<br>15A 2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DB-4            |  |  |
| DB-5                                                                     |               | PIPING DISTRIBUTION BOX    | M M E                                                                                                                            | 0.8                        | 208     | 1                                                                                                                    | M1<br>15A 2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | DB-5            |  |  |
| HU-1                                                                     |               | HUMIDIFIER                 | M M E                                                                                                                            | 7.5                        | 7.2     | 600                                                                                                                  | 3                                        | MSB<br>3P,20A |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#12Cu+#12 BOND, 1"   | HU-1            |  |  |
| HWT                                                                      | STORAGE-RM125 | HOT WATER TANK             | M M E                                                                                                                            | 67                         | 208     | 1                                                                                                                    | M1<br>30A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  |                       |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#10Cu+#10 BOND, 1"   | HWT             |  |  |
| REC                                                                      | STORAGE-RM125 | RECIRCULATING PUMP         | M M E                                                                                                                            |                            | 120     | 1                                                                                                                    | M1<br>15A,1P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 1/2" | REC             |  |  |
| WM05                                                                     | BASEMENT      | WALL MOUNTED INDOOR UNIT   | M M E                                                                                                                            | 8                          | 208     | 1                                                                                                                    | M1<br>15A,2P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | WM05            |  |  |
| -                                                                        | ROOF          | PRE HEAT-ERV 1             | M M E                                                                                                                            | 15                         | 41.7    | 208                                                                                                                  | 3                                        | M1<br>50A,3P  |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 3#8Cu+#8 BOND, 1"     | -               |  |  |
| -                                                                        | STORAGE 135   | PRE HEAT-ERV 2             | M M E                                                                                                                            | 2                          | 9.6     | 208                                                                                                                  | 1                                        | M1<br>15A,2P  |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | -               |  |  |
| EF1                                                                      | BASEMENT      | EXHAUST FAN                | M M E                                                                                                                            |                            | 120     | 1                                                                                                                    | M1<br>15A,1P                             |               |                                                                                          |                          |                                                                                                                         |                                                                                                           |                                         |                                                                |                                                                                        |                                                  | X                     |                                                  |                       |                                                  |                                 |                |  |                |  |  |  | 2#12Cu+#12 BOND, 3/4" | EF1             |  |  |

|             |                                                    |                           |                                                      |        |                                                     |     |       |         |                |                       |
|-------------|----------------------------------------------------|---------------------------|------------------------------------------------------|--------|-----------------------------------------------------|-----|-------|---------|----------------|-----------------------|
| NOTES       | VOLTAGE 120/208<br>PHASE/WIRE 3PH/4W<br>MAINS 125A |                           | PANEL LOCATION<br>SEE FLOOR PLAN<br>MOUNTING SURFACE |        | SOURCE FEEDER<br>SEE SINGLE LINE DIAGRAM<br>I.C. KA |     | NOTES |         |                |                       |
|             | DESIGNATION                                        | WATTAGE<br>PH A PH B PH C | CIR NO.                                              | BKR    | ø                                                   | BKR |       | CIR NO. | PH A PH B PH C | DESIGNATION           |
|             | 1 BASEMENT-LIGHTING                                |                           | 1                                                    | 20A    | -a-                                                 | 15A |       | 2       |                | RECEPTACLES-BSMT      |
|             | 1 RECEPTACLE-BSMT                                  |                           | 3                                                    | 20A    | -b-                                                 | 20A |       | 4       |                | RECEPTACLE-ELEVATOR   |
|             | 1 ELEVATOR LIGHTS                                  |                           | 5                                                    | 15A    | -c-                                                 | 20A |       | 6       |                | SUMP PUMP             |
|             |                                                    |                           | 7                                                    | 100A   | -d-                                                 | 15A |       | 8       |                | FIRE DAMPER-BSMT&LVL1 |
|             |                                                    |                           | 9                                                    | 3P     | -b-                                                 | 10  |       |         |                |                       |
|             |                                                    |                           | 11                                                   |        | -c-                                                 | 12  |       |         |                |                       |
|             |                                                    |                           | 13                                                   |        | -d-                                                 | 14  |       |         |                |                       |
|             |                                                    |                           | 15                                                   |        | -b-                                                 | 16  |       |         |                |                       |
|             |                                                    | 17                        |                                                      | -c-    | 18                                                  |     |       |         |                |                       |
|             |                                                    | 19                        |                                                      | -d-    | 20                                                  |     |       |         |                |                       |
|             |                                                    | 21                        |                                                      | -b-    | 22                                                  |     |       |         |                |                       |
|             |                                                    | 23                        |                                                      | -c-    | 24                                                  |     |       |         |                |                       |
|             |                                                    | 25                        |                                                      | -d-    | 26                                                  |     |       |         | SPARE          |                       |
|             |                                                    | 27                        |                                                      | -b-    | 28                                                  |     |       |         | SPARE          |                       |
|             |                                                    | 29                        |                                                      | -c-    | 30                                                  |     |       |         | SPARE          |                       |
| ø "A" TOTAL |                                                    | TOTAL LOAD:               |                                                      | NOTES: |                                                     |     |       |         |                |                       |
| ø "B" TOTAL |                                                    | KW                        |                                                      |        |                                                     |     |       |         |                |                       |
| ø "C" TOTAL |                                                    | AMPS                      |                                                      |        |                                                     |     |       |         |                |                       |

|             |                                                    |                           |                                               |        |                                                     |     |       |                             |                |                            |
|-------------|----------------------------------------------------|---------------------------|-----------------------------------------------|--------|-----------------------------------------------------|-----|-------|-----------------------------|----------------|----------------------------|
| NOTES       | VOLTAGE 120/208<br>PHASE/WIRE 3PH/4W<br>MAINS 200A |                           | PANEL LOCATION<br>SEE FLOOR PLANS<br>MOUNTING |        | SOURCE FEEDER<br>SEE SINGLE LINE DIAGRAM<br>I.C. KA |     | NOTES |                             |                |                            |
|             | DESIGNATION                                        | WATTAGE<br>PH A PH B PH C | CIR NO.                                       | BKR    | ø                                                   | BKR |       | CIR NO.                     | PH A PH B PH C | DESIGNATION                |
|             | REC-RM-222,224                                     |                           | 1                                             | 15A    | -a-                                                 | 15A |       | 2                           |                | REC-RM-225,226,227         |
|             | REC-RM-231                                         |                           | 3                                             | 15A    | -b-                                                 | 15A |       | 4                           |                | REC-RM-216,218,220,221,229 |
|             | REC-213,214,215                                    |                           | 5                                             | 15A    | -c-                                                 | 15A |       | 6                           |                | REC-RM-205,206             |
|             | REC-203,204                                        |                           | 7                                             | 15A    | -d-                                                 | 15A |       | 8                           |                | REC-BALCONY                |
|             | REC-RM-200,202,207                                 |                           | 9                                             | 15A    | -b-                                                 | 15A |       | 10                          |                | REC-RM-208                 |
|             | REC-209,211,212                                    |                           | 11                                            | 15A    | -c-                                                 | 15A |       | 12                          |                | MICROWAVE-RM-230           |
|             | REC-RM-230                                         |                           | 13                                            | 15A    | -d-                                                 | 15A |       | 14                          |                | RANGE HOOD-RM 230          |
|             |                                                    |                           | 15                                            | 50A    | -b-                                                 | 20A |       | 16                          |                | MICROWAVE-RM-203           |
|             |                                                    | 17                        | 2P                                            | -c-    | 15A                                                 | 18  |       | REFRIGERATOR-RM 202,203     |                |                            |
|             |                                                    | 19                        | 20A                                           | -d-    | 60A                                                 | 20  |       | KILN                        |                |                            |
|             |                                                    | 21                        | 15A                                           | -b-    | 2P                                                  | 22  |       |                             |                |                            |
|             |                                                    | 23                        | 15A                                           | -c-    | 20A                                                 | 24  |       | REC. RM 207,208             |                |                            |
|             |                                                    | 25                        | 15A                                           | -d-    | 15A                                                 | 26  |       | HAND DRYER RM 220           |                |                            |
|             |                                                    | 27                        | 15A                                           | -b-    | 15A                                                 | 28  |       | HAND DRYER RM 232           |                |                            |
|             |                                                    | 29                        | 15A                                           | -c-    | 15A                                                 | 30  |       | HAND DRYER RM 211           |                |                            |
|             |                                                    | 31                        | 15A                                           | -d-    | 20A                                                 | 32  |       | REC.-20A-RM 202,203         |                |                            |
|             |                                                    | 33                        | 15A                                           | -b-    | 15A                                                 | 34  |       | DRCT CTN-FAUCETS            |                |                            |
|             |                                                    | 35                        | 20A                                           | -c-    | 20A                                                 | 36  |       | DOOR ACCESS POWER - LEVEL 1 |                |                            |
|             |                                                    | 37                        | 15A                                           | -d-    | 20A                                                 | 38  |       | DOOR ACCESS POWER - LEVEL 2 |                |                            |
|             |                                                    | 39                        | 15A                                           | -b-    | 40                                                  |     |       |                             |                |                            |
|             |                                                    | 41                        |                                               | -c-    | 42                                                  |     |       |                             |                |                            |
|             |                                                    | 43                        |                                               | -d-    | 44                                                  |     |       |                             |                |                            |
|             |                                                    | 45                        |                                               | -b-    | 46                                                  |     |       |                             |                |                            |
|             |                                                    | 47                        |                                               | -c-    | 48                                                  |     |       |                             |                |                            |
|             |                                                    | 49                        |                                               | -d-    | 50                                                  |     |       |                             |                |                            |
|             |                                                    | 51                        |                                               | -b-    | 52                                                  |     |       |                             |                |                            |
|             |                                                    | 53                        |                                               | -c-    | 54                                                  |     |       |                             |                |                            |
|             |                                                    | 55                        |                                               | -d-    | 56                                                  |     |       |                             |                |                            |
|             |                                                    | 57                        |                                               | -b-    | 58                                                  |     |       | SPARE                       |                |                            |
|             |                                                    | 59                        |                                               | -c-    | 60                                                  |     |       | SPARE                       |                |                            |
|             |                                                    | 61                        |                                               | -d-    | 62                                                  |     |       | SPARE                       |                |                            |
|             |                                                    | 63                        |                                               | -b-    | 64                                                  |     |       | SPARE                       |                |                            |
|             |                                                    | 65                        |                                               | -c-    | 66                                                  |     |       | SPARE                       |                |                            |
| ø "A" TOTAL |                                                    | TOTAL LOAD:               |                                               | NOTES: |                                                     |     |       |                             |                |                            |
| ø "B" TOTAL |                                                    | KW                        |                                               |        |                                                     |     |       |                             |                |                            |
| ø "C" TOTAL |                                                    | AMPS                      |                                               |        |                                                     |     |       |                             |                |                            |

| VOLTAGE 120/208<br>PHASE/WIRE 3PH/4W<br>MAINS 200A |                                    | PANEL LOCATION<br>SEE FLOOR PLAN<br>MOUNTING |      | HP2<br>SEE FLOOR PLAN |         | SOURCE FEEDER<br>SEE SINGLE LINE DIAGRAM<br>I.C. KA |     |     |         |         |      |      |                                |       |
|----------------------------------------------------|------------------------------------|----------------------------------------------|------|-----------------------|---------|-----------------------------------------------------|-----|-----|---------|---------|------|------|--------------------------------|-------|
| NOTES                                              | DESIGNATION                        | WATTAGE                                      |      |                       | CIR NO. | BKR                                                 | ø   | BKR | CIR NO. | WATTAGE |      |      | DESIGNATION                    | NOTES |
|                                                    |                                    | PH A                                         | PH B | PH C                  |         |                                                     |     |     |         | PH A    | PH B | PH C |                                |       |
|                                                    | LTG-RM-136,137,138                 |                                              |      |                       | 1       | 15A                                                 | -a- | 15A | 2       |         |      |      | LTG-RM-137,138,139             |       |
|                                                    | LTG-RM-117,118,119,121             |                                              |      |                       | 3       | 15A                                                 | -b- | 15A | 4       |         |      |      | LTG-RM-120,122,123,124,125,128 |       |
|                                                    | LTG-RM-104,105,106,107,108         |                                              |      |                       | 5       | 15A                                                 | -c- | 15A | 6       |         |      |      | LTG-RM-100,109,111,113,115     |       |
|                                                    | LTG-RM-WR'S,214,22,223,225,226     |                                              |      |                       | 7       | 15A                                                 | -d- | 15A | 8       |         |      |      | LTG-RM-230,231,232,233         |       |
|                                                    | LTG-RM-202,203,204,205,206         |                                              |      |                       | 9       | 15A                                                 | -b- | 15A | 10      |         |      |      | LTG-RM-200,208,209,211,212     |       |
|                                                    | LTG-EXTERIOR LIGHTS                |                                              |      |                       | 11      | 15A                                                 | -c- | 15A | 12      |         |      |      | DOOR OPERATORS                 |       |
|                                                    | REC-RM-136                         |                                              |      |                       | 13      | 15A                                                 | -d- | 15A | 14      |         |      |      | REC-RM-137,138,139             |       |
|                                                    | REC-RM-117,118,119                 |                                              |      |                       | 15      | 15A                                                 | -b- | 15A | 16      |         |      |      | REC-RM-121,122                 |       |
|                                                    | REC-RM-120,140,141                 |                                              |      |                       | 17      | 15A                                                 | -c- | 15A | 18      |         |      |      | REC-RM-139,140,141             |       |
|                                                    | REC-RM-132                         |                                              |      |                       | 19      | 15A                                                 | -d- | 15A | 20      |         |      |      | REC-106,107                    |       |
|                                                    | REC-RM-108                         |                                              |      |                       | 21      | 15A                                                 | -b- | 15A | 22      |         |      |      | REC-RM-108                     |       |
|                                                    | REC-RM-109                         |                                              |      |                       | 23      | 15A                                                 | -c- | 15A | 24      |         |      |      | REC-RM-104,109                 |       |
|                                                    | REC-RM-100,101,102,103             |                                              |      |                       | 25      | 15A                                                 | -d- | 15A | 26      |         |      |      | REC-RM-111                     |       |
|                                                    | REC-RM-113,142                     |                                              |      |                       | 27      | 15A                                                 | -b- | 15A | 28      |         |      |      | REC-RM-115,116                 |       |
|                                                    | REC-PHOTOOCOPIER-RM115             |                                              |      |                       | 29      | 20A                                                 | -c- | 20A | 30      |         |      |      | REC-MICROWAVE-RM136            |       |
|                                                    | RANGE                              |                                              |      |                       | 31      | 50A                                                 | -c- | 30A | 32      |         |      |      | DRYER                          |       |
|                                                    |                                    |                                              |      |                       | 33      | 2P                                                  | -b- | 2P  | 34      |         |      |      |                                |       |
|                                                    | RANGE HOOD                         |                                              |      |                       | 35      | 15A                                                 | -c- | 30A | 36      |         |      |      | OVEN                           |       |
|                                                    | WASHER                             |                                              |      |                       | 37      | 15A                                                 | -d- | 2P  | 38      |         |      |      |                                |       |
|                                                    | HAND DRYER-WR-138                  |                                              |      |                       | 39      | 15A                                                 | -b- | 15A | 40      |         |      |      | HAND DRYER-WR-124              |       |
|                                                    | HAND DRYER-WR-122                  |                                              |      |                       | 41      | 15A                                                 | -c- | 15A | 42      |         |      |      | HAND DRYER-WR-113              |       |
|                                                    | HAND DRYER-WR-123                  |                                              |      |                       | 43      | 15A                                                 | -d- | 15A | 44      |         |      |      | HAND DRYER-WR-114              |       |
|                                                    | REC-3D PRINTER                     |                                              |      |                       | 45      | 15A                                                 | -b- | 15A | 46      |         |      |      | DOOR OPENERS, DURESS CALL      |       |
|                                                    | REC.-20A-PROGRAM RM 136            |                                              |      |                       | 47      | 20A                                                 | -c- | 15A | 48      |         |      |      | SELF CHECK                     |       |
|                                                    | REFRIGERATOR RM 136                |                                              |      |                       | 49      | 15A                                                 | -d- | 15A | 50      |         |      |      | REC-RM 128,131,133             |       |
|                                                    | REC-RM-129,130,134,135             |                                              |      |                       | 51      | 15A                                                 | -b- | 20A | 52      |         |      |      | REC-EXISTING SUMP PUMP         |       |
|                                                    | LTG-RM-127,129,130,131,133,134,135 |                                              |      |                       | 53      | 15A                                                 | -c- | 15A | 54      |         |      |      | DRCT CTN-FAUCETS               |       |
|                                                    |                                    |                                              |      |                       | 55      | 15A                                                 | -d- | 15A | 56      |         |      |      | BOTTLE FILLER                  |       |
|                                                    | SPARE                              |                                              |      |                       | 57      | -                                                   | -   | -   | 58      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 59      | -                                                   | -   | -   | 60      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 61      | -                                                   | -   | -   | 62      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 63      | -                                                   | -   | -   | 64      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 65      | -                                                   | -   | -   | 66      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 67      | -                                                   | -   | -   | 68      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 69      | -                                                   | -   | -   | 70      |         |      |      | SPARE                          |       |
|                                                    | SPARE                              |                                              |      |                       | 71      | -                                                   | -   | -   | 72      |         |      |      | SPARE                          |       |
| ø "A" TOTAL                                        |                                    | TOTAL LOAD:                                  |      |                       | NOTES:  |                                                     |     |     |         |         |      |      |                                |       |
| ø "B" TOTAL                                        |                                    | KW                                           |      |                       |         |                                                     |     |     |         |         |      |      |                                |       |
| ø "C" TOTAL                                        |                                    | AMPS                                         |      |                       |         |                                                     |     |     |         |         |      |      |                                |       |

| VOLTAGE 120/208<br>PHASE/WIRE 3PH/4W<br>MAINS 200A |                          | PANEL LOCATION<br>SEE FLOOR PLANS<br>MOUNTING |      | M1<br>SEE FLOOR PLANS |         | SOURCE FEEDER<br>SEE SINGLE LINE DIAGRAM<br>I.C. KA |     |     |         |         |      |      |                          |       |
|----------------------------------------------------|--------------------------|-----------------------------------------------|------|-----------------------|---------|-----------------------------------------------------|-----|-----|---------|---------|------|------|--------------------------|-------|
| NOTES                                              | DESIGNATION              | WATTAGE                                       |      |                       | CIR NO. | BKR                                                 | ø   | BKR | CIR NO. | WATTAGE |      |      | DESIGNATION              | NOTES |
|                                                    |                          | PH A                                          | PH B | PH C                  |         |                                                     |     |     |         | PH A    | PH B | PH C |                          |       |
|                                                    | H05,H12: LEVEL1-4UNITS   |                                               |      |                       | 1       | 15A                                                 | -a- | 15A | 2       |         |      |      | H5,H7: LEVEL2-3 UNITS    |       |
|                                                    |                          |                                               |      |                       | 3       | 2P                                                  | -b- | 2P  | 4       |         |      |      |                          |       |
|                                                    | H15: LEVEL1-2UNITS       |                                               |      |                       | 5       | 15A                                                 | -c- | 15A | 6       |         |      |      | H12,H15: LEVEL2-3 UNITS  |       |
|                                                    |                          |                                               |      |                       | 7       | 2P                                                  | -a- | 2P  | 8       |         |      |      |                          |       |
|                                                    | H18: LEVEL1-2UNITS       |                                               |      |                       | 9       | 15A                                                 | -b- | 15A | 10      |         |      |      | H18: LEVEL2-3UNITS       |       |
|                                                    |                          |                                               |      |                       | 11      | 2P                                                  | -c- | 2P  | 12      |         |      |      |                          |       |
|                                                    | H24: LEVEL1-1UNIT        |                                               |      |                       | 13      | 15A                                                 | -d- | 15A | 14      |         |      |      | H24: LEVEL2-2UNITS       |       |
|                                                    |                          |                                               |      |                       | 15      | 2P                                                  | -b- | 2P  | 16      |         |      |      |                          |       |
|                                                    | H30: LEVEL1-1UNIT        |                                               |      |                       | 17      | 15A                                                 | -c- | 15A | 18      |         |      |      | H30:LEVEL2-1UNIT         |       |
|                                                    |                          |                                               |      |                       | 19      | 2P                                                  | -d- | 2P  | 20      |         |      |      |                          |       |
|                                                    | H36: LEVEL1-1UNIT        |                                               |      |                       | 21      | 15A                                                 | -b- | 15A | 22      |         |      |      | DB-1,DB-2                |       |
|                                                    |                          |                                               |      |                       | 23      | 2P                                                  | -c- | 2P  | 24      |         |      |      |                          |       |
|                                                    | DF-1,BF-2                |                                               |      |                       | 25      | 15A                                                 | -d- | 15A | 26      |         |      |      | DB-3,DB-4                |       |
|                                                    | DF-3                     |                                               |      |                       | 27      | 2P                                                  | -b- | 2P  | 28      |         |      |      |                          |       |
|                                                    | HWT                      |                                               |      |                       | 29      | 30A                                                 | -c- | 15A | 30      |         |      |      | DB-5                     |       |
|                                                    |                          |                                               |      |                       | 31      | 2P                                                  | -d- | 2P  | 32      |         |      |      |                          |       |
|                                                    | RECIRCULATING PUMP       |                                               |      |                       | 33      | 20A                                                 | -b- | 15A | 34      |         |      |      | ERV-2                    |       |
|                                                    | BASEBOARD HEATING        |                                               |      |                       | 35      | 20A                                                 | -c- | 2P  | 36      |         |      |      |                          |       |
|                                                    |                          |                                               |      |                       | 37      | 2P                                                  | -d- | 15A | 38      |         |      |      |                          |       |
|                                                    | BASEBOARD HEATING        |                                               |      |                       | 39      | 20A                                                 | -b- | 2P  | 40      |         |      |      | ERV-1                    |       |
|                                                    |                          |                                               |      |                       | 41      | 2P                                                  | -c- | 2P  | 42      |         |      |      |                          |       |
|                                                    | BASEBOARD HEATING        |                                               |      |                       | 43      | 20A                                                 | -d- | 20A | 44      |         |      |      | BASEBOARD HEATING        |       |
|                                                    |                          |                                               |      |                       | 45      | 2P                                                  | -b- | 2P  | 46      |         |      |      | RECIRCULATING PUMP "REC" |       |
|                                                    | SUMP PUMP LVL 1          |                                               |      |                       | 47      | 20A                                                 | -c- | 15A | 48      |         |      |      |                          |       |
|                                                    |                          |                                               |      |                       | 49      | 15A                                                 | -d- | 15A | 50      |         |      |      | H05:BASEMENT             |       |
|                                                    | WALL MOUNTED INDOOR UNIT |                                               |      |                       | 51      | 2P                                                  | -b- | 2P  | 52      |         |      |      | PRE-HEAT: ERV 2          |       |
|                                                    |                          |                                               |      |                       | 53      | 50A                                                 | -c- | 15A | 54      |         |      |      | EXHAUST FAN-BASEMENT     |       |
|                                                    | PRE-HEAT: ERV 1          |                                               |      |                       | 55      | 3P                                                  | -b- | 2P  | 56      |         |      |      | CONTROLS                 |       |
|                                                    |                          |                                               |      |                       | 57      | -                                                   | -   | 15A | 58      |         |      |      | CONTROLS                 |       |
|                                                    | CONTROLS                 |                                               |      |                       | 59      | 20A                                                 | -c- | 20A | 60      |         |      |      |                          |       |
|                                                    | CONTROLS                 |                                               |      |                       | 61      | 20A                                                 | -d- | 20A | 62      |         |      |      |                          |       |
|                                                    |                          |                                               |      |                       | 63      | -                                                   | -   | -   | 64      |         |      |      |                          |       |
|                                                    |                          |                                               |      |                       | 65      | -                                                   | -   | -   | 66      |         |      |      |                          |       |
|                                                    |                          |                                               |      |                       | 67      | -                                                   | -   | -   | 68      |         |      |      |                          |       |
|                                                    | SPARE                    |                                               |      |                       | 69      | -                                                   | -   | -   | 70      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 71      | -                                                   | -   | -   | 72      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 73      | -                                                   | -   | -   | 74      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 75      | -                                                   | -   | -   | 76      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 77      | -                                                   | -   | -   | 78      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 79      | -                                                   | -   | -   | 80      |         |      |      | SPARE                    |       |
|                                                    | SPARE                    |                                               |      |                       | 81      | -                                                   | -   | -   | 82      |         |      |      | SPARE                    |       |
| ø "A" TOTAL                                        |                          | TOTAL LOAD:                                   |      |                       | NOTES:  |                                                     |     |     |         |         |      |      |                          |       |
| ø "B" TOTAL                                        |                          | KW                                            |      |                       |         |                                                     |     |     |         |         |      |      |                          |       |
| ø "C" TOTAL                                        |                          | AMPS                                          |      |                       |         |                                                     |     |     |         |         |      |      |                          |       |

PROJECT NORTH