Centennial College Story Arts Centre Relocation

941 Progress Avenue, Scarborough, ON, M1G 3T8

Issued for Tender

GOW HASTINGS ARCHITECTS

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ARCHITECTURAL

Gow Hastings Architects
275 Spadina Rd, Toronto, ON M5R 2V3
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STRUCTURAL

Mantecon Partners
15 Foundry Street, Dundas, ON, L9H 2V6
(905) 648-0373

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MECHANICAL

Mantecon Partners
15 Foundry Street, Dundas, ON, L9H 2V6
(905) 648-0373

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ELECTRICAL

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BROADCASTING AV

Engineering Harmonics
326 Carlaw Ave #105, Toronto, ON M4M 3N8
(416) 465-3378

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No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Cover, Consultant List & Drawing List

Project North

Scale:

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-000

Name of Practice:
GOW HASTINGS ARCHITECTS
275 SPADINA ROAD
Toronto, ON M5R 2V3
t. 416 920 0031

Name of Project:
Story Arts

Location:
941 Progress Ave. Scarborough, ON, M1G 3T8

Total Project Area: 1150 m²

ITEM	ONTARIO'S BUILDING CODE DATA MATRIX PART 3			Building Code Reference
				References are to Division B unless noted [A] for Division A or [C] for Division C.
1	PROJECT DESCRIPTION:	☐ NEW ☐ ADDITION ☐ CHANGE OF USE ☑ ALTERATION	☑ PART 11 11.1 to 11.4	☑ PART 3 1.3.3.2.[A]
2	MAJOR OCCUPANCY(S): A2			3.1.2.
3	SUPERIMPOSED MAJOR OCCUPANCIES	☑ NO ☐ YES		3.2.2.7.
4	BUILDING AREA (m²)	EXISTING 3367 NEW 0 TOTAL 3367		1.4.1.2.[A]
5	GROSS AREA	EXISTING 10022 NEW 0 TOTAL 10022		1.4.1.2.[A]
6	MEZZANINE(S) AREA M²	EXISTING 0 NEW 0 TOTAL 0		3.2.1.1.
7	NUMBER OF STOREYS	ABOVE GRADE 4 BELOW GRADE 0		1.4.1.2 [A] & 3.2.1.1.
8	HIGH BUILDING	☐ YES ☑ NO		3.2.6
9	NUMBER OF STREETS / FIRE FIGHTER ACCESS	1		3.2.2.10 & 3.2.5
10	BUILDING CLASSIFICATION	3.2.2.24 Group A Div. 2 Up to 6 Stories, Any Area		3.2.2.20-.93
11	SPRINKLER SYSTEM PROPOSED ☑ ENTIRE BUILDING ☐ SELECTED COMPARTMENTS ☐ BASEMENT ☐ IN LIEU OF ROOF RATING ☐ SELECTED FLOOR AREAS: Sprinklers to be added to area of renovation & new addition ☐ NOT REQUIRED			3.2.1.5. & 3.2.2.18., .21., .22., .29., 3.2.4.1., 3.2.4.59., 2.1.3.15., and 3.2.5.12. to .14.
12	STANDPIPE REQUIRED	☑ YES ☐ NO		3.2.5.8. - 11.
13	FIRE ALARM REQUIRED TYPE PROVIDED:	☑ YES ☐ NO ☐ SINGLE STAGE ☐ TWO STAGE ☐ NONE		3.2.4
14	WATER SERVICE/SUPPLY IS ADEQUATE	☑ YES ☐ NO		3.2.5.7
15	CONSTRUCTION TYPE - RESTRICTION CONSTRUCTION TYPE - ACTUAL HEAVY TIMBER CONSTRUCTION	☐ COMBUSTIBLE PERMITTED ☑ NON-COMBUSTIBLE REQUIRED ☐ ENCAPSULATED MASS TIMBER PERMITTED ☐ COMBUSTIBLE ☑ NON-COMBUSTIBLE ☐ BOTH ☐ ENCAPSULATED MASS TIMBER PERMITTED ☐ COMBINATION OF ENCAPSULATED MASS TIMBER & NON-COMBUSTIBLE ☑ NO ☐ YES		3.2.2.20-.93. & 3.1.6. 3.1.4.6.- 7., 3.2.2.16.
16	OCCUPANT LOAD BASED ON BASEMENT: OCCUPANCY A2 LOAD No Change PERSONS 1ST FLOOR: OCCUPANCY A2 LOAD No Change PERSONS 2ND FLOOR: OCCUPANCY: A2 LOAD No Change PERSONS 3RD FLOOR: OCCUPANCY: A2 LOAD No Change PERSONS 4th FLOOR: OCCUPANCY: A2 LOAD No Change PERSONS	☐ M.SQ./PERSON ☑ DESIGN OF BUILDING		3.1.17
17	BARRIER-FREE DESIGN BARRIER-FREE ENTRANCES: No Change	☑ YES ☐ NO (EXPLAIN)		3.8 3.8.1.2.
18	HAZARDOUS SUBSTANCE	☐ YES ☑ NO EXPLANATION:		3.3.1.2.
19	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES: FLOORS — RATING (H) 1, SUPPORTING ASSEMBLY (H) 1, NONCONBUSTIBLE IN LIEU OF RATING? ☐ YES ☑ NO ☐ N/A MEZZANINE — RATING (H) -, SUPPORTING ASSEMBLY (H) -, ☐ YES ☑ NO ☐ N/A ROOF — RATING (H) -, SUPPORTING ASSEMBLY (H) -, ☐ YES ☑ NO ☐ N/A		3.2.2.20-.93 & 3.2.1.2, 3.2.1.4., 3.2.2.15., 3.3.2.1.
20a	SPATIAL SEPARATION	EXPOSED BUILDING FACE / EBF AREA (m²) / L.D. (m) / L/H or H/L / % UNPROTECTED OPENINGS PERMITTED / % UNPROTECTED OPENINGS PROVIDED No Change No Change No Change		3.2.3
20b	SPATIAL SEPARATION CONTINUED	EXPOSED BUILDING FACE (REPEATED) / CONSTRUCTION TYPE / CLADDING TYPE No Change No Change No Change		3.2.3

21 PLUMBING FIXTURE REQUIREMENTS

No Change

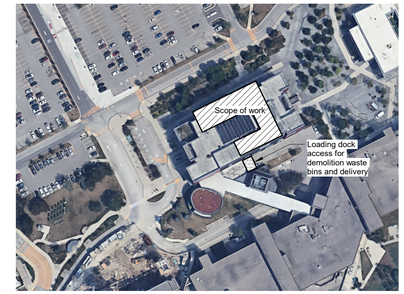
MALE/FEMALE COUNT @ ____% / ____%, EXCEPT AS NOTED OTHERWISE

	OCCUPANT LOAD	BC TABLE NUMBER	FIXTURE REQUIRED	FIXTURE PROVIDED	BUILDING CODE REFERENCE ☐ PART 3	☐ PART 9
1st Floor: OCCUPANCY						
OCCUPANCY						
2nd Floor: OCCUPANCY						
OCCUPANCY						
3rd Floor: OCCUPANCY						
OCCUPANCY						
(Adjust as Required for Additional Floors or Occupancies)						

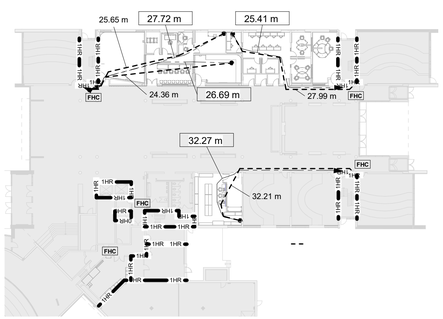
ITEM	ONTARIO'S BUILDING CODE DATA MATRIX, PART 11 - RENOVATION OF EXISTING BUILDING			Building Code Reference
11.1	Existing Building classification:	Change in Major Occupancy: ☐ Yes ☑ Not Applicable (no change of major occupancy) Construction Index: Hazard Index: Importance Category: ☐ Low ☑ Normal ☐ High ☐ Post-diaster		10.1.1.2., 11.2.1.1. T 11.2.1.1.A T 11.2.1.1.B to N 4.1.2.1.(3), 2.3.1., and 5.2.2.1.(2)
11.2	Alteration to Existing Building is:	Basic Renovation ☑ Extensive Renovation ☐		11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: ☑ No ☐ Yes By Increase in occupant load: ☑ No ☐ Yes By change of major occupancy: ☑ No ☐ Yes Plumbing: ☑ No ☐ Yes Sewage-system: ☑ No ☐ Yes Extension of buildings of combustible construction: ☑ No ☐ Yes		11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
11.4	Compensating Construction:	☑ No ☐ Yes		11.4.3.1
		Structural: ☑ No ☐ Yes (explain)		11.4.3.2
		By Increase in occupant load: ☑ No ☐ Yes (explain)		11.4.3.3
		By change of major occupancy: ☑ No ☐ Yes (explain)		11.4.3.4
		Plumbing: ☑ No ☐ Yes (explain)		11.4.3.5
		Sewage-system: ☑ No ☐ Yes (explain)		11.4.3.6
		Extension of buildings of combustible construction: ☑ No ☐ Yes (explain)		11.4.3.7
11.5	Compliance Alternatives Proposed:	☑ No ☐ Yes (give number[s])		11.5.1

LIFE SAFETY PLAN LEGEND

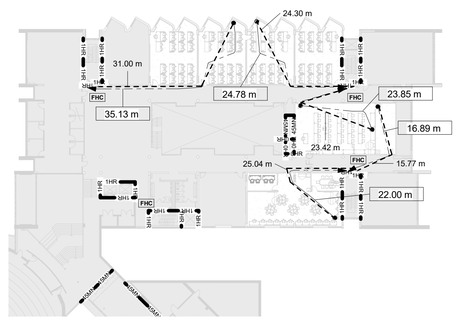
- Travel Distance — Max Allowable = 45m
- FHC Coverage Max Allowable: 30.0m + 3.0m spray = 33.0m
- FHC — Fire Hose Cabinet
- Shaded Area - NIC
- 0HR — 0HR FRR
- 45MIN — 45MIN — 45 Minute FRR
- 1HR — 1HR — 1HR FRR
- 1.5HR — 1.5HR — 1.5HR FRR
- 2HR — 2HR — 2HR FRR



1 **Site Keyplan**
N.T.S.



2 **Level 1 Life Safety Plan**
1 : 500



3 **Level 2 Life Safety Plan**
1 : 500

GOW HASTINGS ARCHITECTS

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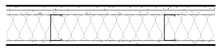
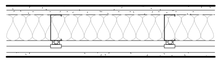
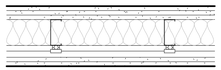
OBC Matrix, Life Safety Plan, Key Plan, Context map

Scale: As indicated

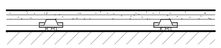
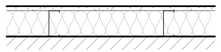
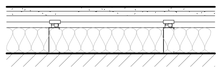
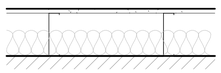
Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-001

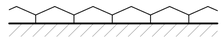
Interior Partition Types - Metal Stud

Type	Construction	Description
P4		16 mm GWB 92mm Steel Studs @ 406 OC 16 mm GWB
P4A		**Acoustic Partition** 2 x 16 mm GWB 92mm Steel Studs @ 406 OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity 16 mm GWB
P4B		**Acoustic Partition** 2 x 16 mm GWB 92mm Steel Studs @ 406 OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity 22mm Furring Channel on Resilient Clips 16 mm GWB
P4C		**Acoustic Partition** 3 x 16 mm GWB 92mm Steel Studs @ 406 OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity 22mm Furring Channel on Resilient Clips 2 x 16 mm GWB
P4D		**Acoustic Partition** 2 x 16 mm GWB 92mm Steel Studs @ 406 OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity 38mm Air Space 92mm Steel Studs @ 406 OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity 16 mm GWB
P5		16 mm GWB 152mm Steel Studs @ 406 OC 16 mm GWB

Furring Types

Type	Construction	Description
F0		16 mm GWB Adhered to Substrate Substrate (Refer to Drawings)
F1		16 mm GWB 13mm Resilient Channel @ 406mm OC Substrate (Refer to Drawings)
F1A		**Acoustic Furring** 2 x 16 mm GWB 22mm Furring Channel @ 406mm OC on Resilient Clips Substrate (Refer to Drawings)
F3		16 mm GWB 64mm Steel Studs @ 406mm OC Substrate (Refer to Drawings)
F4		16 mm GWB 92mm Steel Studs @ 406mm OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity Substrate (Refer to Drawings)
F4A		**Acoustic Furring** 2 x 16 mm GWB 22mm Furring Channel @ 406mm OC on Resilient Clips 92mm Steel Studs @ 406mm OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity Substrate (Refer to Drawings)
F5		16 mm GWB 152mm Furring Channel @ 406mm OC 89mm Acoustic Glass Fibre Insulation in Stud Cavity Substrate (Refer to Drawings)

Interior Wall Finish

Type	Construction	Description
AWP1		25mm Acoustic Wall Panel Substrate (Refer to Drawings) 2mm Thick ALUM L-Angle continuous trim at bottom and at exposed panel edges
AWP1A		25mm Acoustic Wall Panel 22mm Furring Channel Substrate (Refer to Drawings) 2mm Thick ALUM L-Angle continuous trim at bottom and at exposed panel edges
AWP2		60 mm Corrugated Acoustic Wall Panel Substrate (Refer to Drawings)

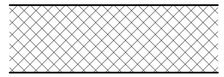
Glazing Screens

Type	Construction	Description
S1		**Acoustic Screen** Dual pane custom Acoustical window 2 independent wood frames, separated by a 13mm gap filled with non-hardening acoustic caulk and cont. rod 19mm laminated glass Maximize air space, min. 100mm. 12mm laminated glass
S2		10mm tempered glass ALUM glazing frame to match existing

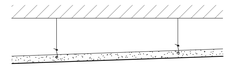
Interior Partition & Furring General Notes

1. User water-resistant drywall in all wet areas. See specifications.
2. Provide continuous plywood blocking behind all millwork cabinets, suspended items, televisions, etc.
3. Where infilling walls, use metal furring and additional GWB to align to adjacent wall surfaces.
4. Extend all partitions and furring to underside of floor slab, deck, or structure above unless otherwise noted.
5. Refer to Life Safety Plans & Sections for location of all fire-rated partitions.
6. At fire-rated partitions, provide fire-rated sealant at the top and bottom of partition, and at tight-fitting penetrations. Firestop as req'd at U/S of metal deck & large gaps per ULC/ cUL firestop design. Refer to M&E documents for firestopping at M&E penetrations.
7. 16mm Type X gypsum board with a minimum surface mass of 2.2lbs/sq.ft. is to be used at all acoustical partitions. Lightweight gypsum board is not to be used.
8. Back-to-back outlets are not permitted in Acoustic partitions - they are to be separated by at least 800mm.
9. Junction boxes in Acoustic Partitions are to be completely sealed on 5 sides. Use Hilti CP-617 putty pad, Kinetics SealTight Acoustical Outlet Backer Pad or equal to seal boxes. Ensure minimum 38mm space between the back surface of the junction box and the back face of the opposite layer of gypsum board. Acoustic Partitions are to be completely sealed around the full perimeter with non-hardening acoustic caulk.
10. Flanking walls are not to be continuous across Acoustic Partitions. All penetrations through acoustically sensitive walls are to be sealed airtight as follows per the typical details provided.

Interior Masonry - CMU

Type	Construction	Description
C2		140mm Hollow Concrete Masonry Unit
C4		240mm infill block. Site verify width of existing block. Concrete Masonry Units w/ raked horizontal joints.

Ceiling Types

Type	Construction	Description
ACT-1 3800		T-Grid Framing Acoustic Ceiling Tile
ACT-2 3500		T-Grid Framing High CAC Acoustic Ceiling Tile
ACP 3250		Existing Concrete Slab 25mm Acoustic Ceiling Panels Refer to section detail for angled installation
GWB 2800		Stud Framing 16mm GWB

Standard Abbreviations

ADJ	Adjustable
AFF	Above Finished Floor
BLDG	Building
BLK	Block
CL	Center Line
CLG	Ceiling
CONT	Continuous
DIA	Diameter
DIM	Dimension
DWG	Drawing
ELEV	Elevator
EQ	Equal
EX/EXIST	Existing
EXP	Exposed
FLR	Floor
F/O	Face of
FRR	Fire Resistance Rating
FPR	Fire Protection Rating
HT	Height
MAX	Maximum
MIN	Minimum
NIC	Not in Contract
NTS	Not to Scale
OC	On Centre
O/H	Overhead
OSCI	Owner Supplied Contractor Installed
RAD	Radius
RCP	Reflected Ceiling Plan
REQ'D	Required
REV	Reverse
RM	Room
RQMT(S)	Requirement(s)
SIM	Similar
SPEC(S)	Specification(s)
S.T.C.	Sound Transmission Class
STD	Stud
T&G	Tongue & Groove
T/O	Top of
TYP	Typical
UNO	Unless Noted Otherwise
U/S	Underside of
VIF	Verify in Field

Material Abbreviations

ACT	Acoustic Ceiling Tile
ACP	Acoustic Ceiling Panel
AFC	Acoustic Fabric Ceiling
AWP	Acoustic Wall Panel
ACM	Aluminim Composite Metal Panel
ALUM	Aluminum
BB	Bulletin Board
CT	Ceramic Tile
CTB	Ceramic Tile Base
CMU	Concrete Masonry Unit
CONC	Concrete
CPT	Carpet
DF	Re-installed Drinking Fountain
EPO	Epoxy Paint
EPX	Epoxy Flooring
FG	Fire Rated Glass
FGL	Frosted Glass
FLM	Glazing Surface Film
FP	Felt Panel
GL	Glass
GRG	Glass Reinforced Gypsum
GWB	Gypsum Wallboard
HM	Hollow Metal
HS	Heat Strengthened
MIR	Mirror
MDF	Medium Density Fibreboard
MP	Metal Ceiling Panel
PLY	Fire Rated Plywood
POR	Porcelain Tile
PC	Polished Concrete
PLAM	Plastic Laminate
PT	Paint Finish
PTX	Intumescent Paint
PVB	Polyvinyl Butyral
QTZ	Quartz
RB	Rubber Base
RES	Resilient Sheet Flooring
SO	Solid Polymer Fabrications
SPI	SentryGlas Plus Ionoplast
SS	Stainless Steel
SSG	Structural Silicone Glazing
STL	Steel
ST	Natural Stone
TGL	Tempered Glass
VPT	Vinyl Plank Tile
WB	Dry Erase Whiteboard
WD	Solid Wood
WP	Wood Panel
WV	Wood Veneer

Equipment and Specialties Abbreviations

AP	Access Panel
ADO	Automatic Door Operator
C	Clock
CA	Card Access
CG	Corner Guard
CH	Coat Hook
CR	Card Reader
DF	Drinking Fountain
DW	Dishwasher
EJ	Expansion Joint
EJC	Expansion Joint Cover
FHC	Fire Hose Cabinet
FM	Floor Monument
FR	Refrigerator
FTS	Floor Transition Strip
GBAR	Grab bar
HS	Hydration Station
LOC	Locker
ND	Napkin Disposal
OCP	Overhead Ceiling Projector
PB	Push Button
PL	Plate
PS	Projection Screen
PTD	Paper Towel Dispenser
RFM	Recessed Floor Monument
RP	Radiant Panel
RS	Roller Shade
SD	Soap Dispenser
SND	Sanitary Napkin Dispenser
TTD	Toilet Tissue Dispenser
TV	Television
WBF	Water Bottle Filler

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No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Assembly Types, Legends & Notes

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-002

DEMOLITION NOTES:

1. Patch and repair all existing ceiling, wall and floor surfaces damaged by demolition, including demolition by demo contractor.

2. See also mechanical and electrical drawings for further scope of demolition.

3. Prepare existing floor smooth for new flooring. Add topping as required and grind smooth where floor variance exceeds 6mm vertically in 2000mm horizontally.

4. Review all existing site conditions before starting work and advise architect of any discrepancies between drawings and existing site conditions.

5. All work to be supervised by an experienced foreman at all times.

6. Carry out all demolition work in a systematic manner as necessary to accommodate construction of all new work as shown herein and elsewhere in construction documents, as well as within the consultant's documents.

7. Take measures to control and contain all dust and debris within the construction area. Ensure dust does not migrate into adjacent occupied spaces.

8. All material required to be demolished is to be removed from the site and disposed of as per the regulations and requirements of all authorities having jurisdiction, unless noted otherwise.

9. At end of each day's work, leave site in a safe condition so that no part is in danger of collapse. Do not stack salvaged material or debris unable to overload or make unstable any part of the structure.

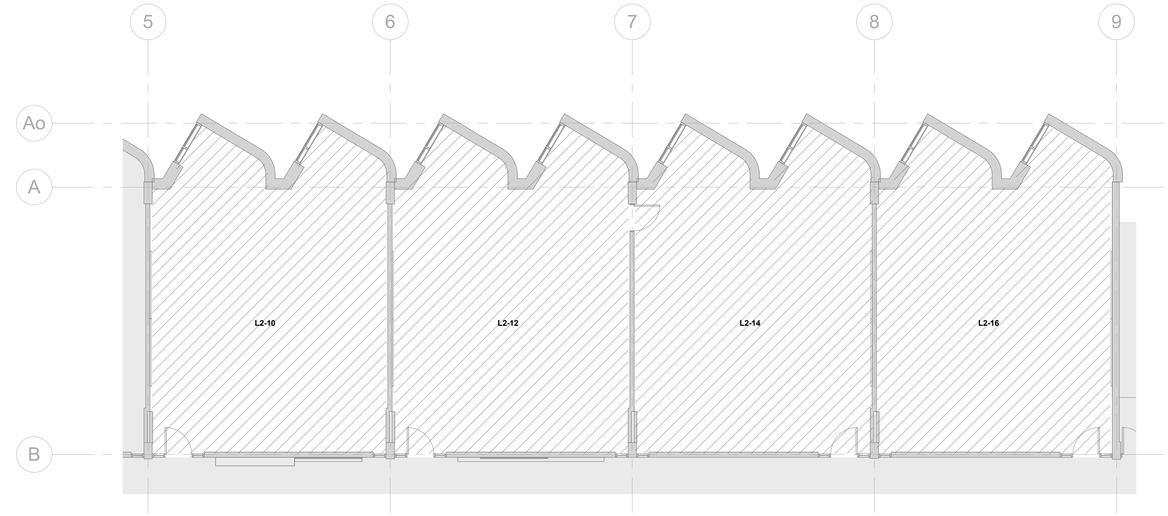
10. Remove back to source all power, data and voice infrastructure from walls that are to be demolished prior to demolition.

11. Refer to reflected ceiling plan for details on areas of existing ceiling tiles to be removed/re-used.

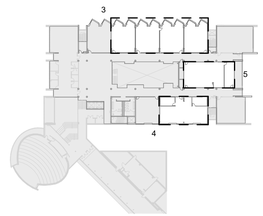
12. During demolition refer to and co-ordinate with information on both partition plan and reflected ceiling plan.

13. Existing perimeter blinds to be protected before demolition starts.

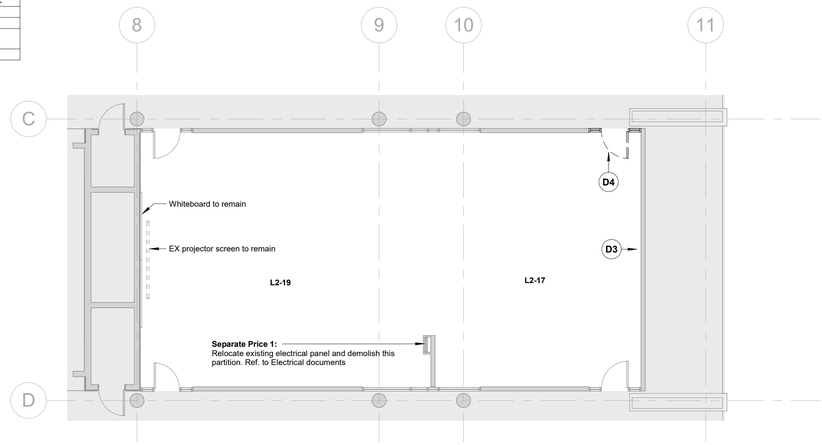
Demolition Notes - Main Tender	
Note	**Description**
D1	**Cut opening and rework stud framing as required to accommodate installation of new door or window. Provide temporary support as required.**
D2	**Cut opening in CMU partition as required to accommodate installation of new door or window. Provide temporary support as required. Refer to Structural for new steel lintel.**
D3	**Patch and make good walls where whiteboard was removed previously.**
D4	**Existing door and sidelite to be removed for modification and reuse.**
D5	**Remove existing bulletin board and cabinet in front of radiant controls and electrical panels.**
D6	**Remove all adhesive residue and grid floor smooth to recieve new concrete sealer**



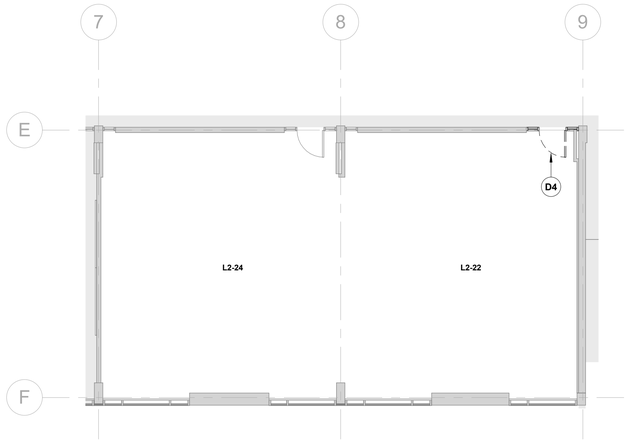
3 **Level 2 - Computer Labs - Demolition Plan**
1 : 100



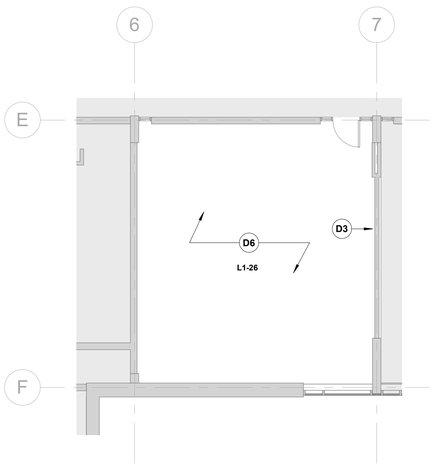
11 **Level 2 Key Plan**



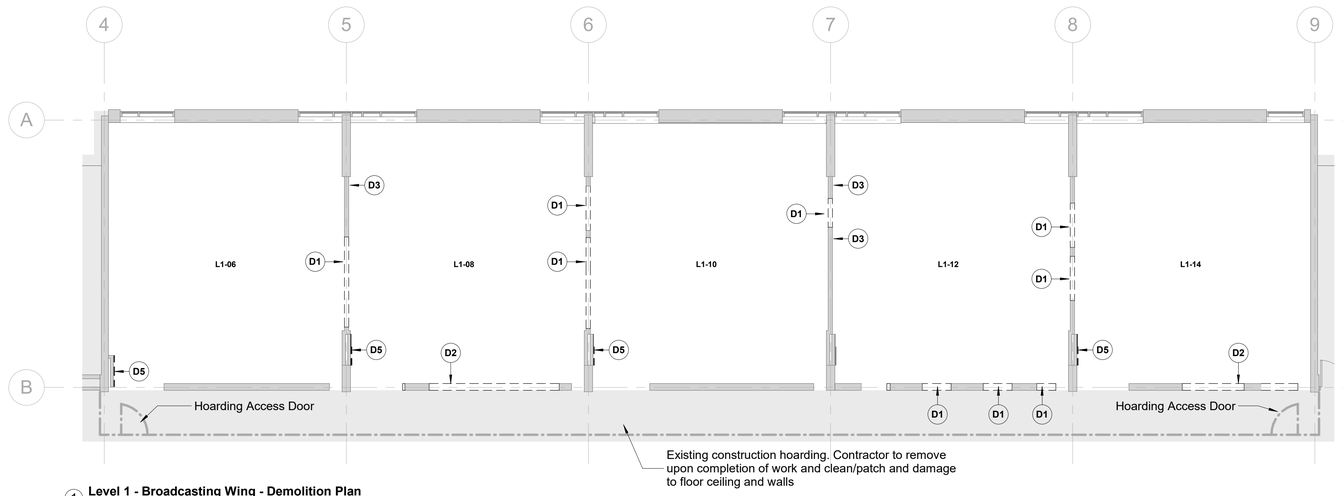
5 **Level 2 - Multipurpose Studio - Demolition Plan**
1 : 100



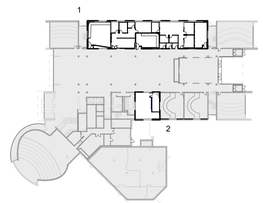
4 **Level 2 - Journalism - Demolition Plan**
1 : 100



2 **Level 1 - Equipment Distribution & Return - Demolition Plan**
1 : 100



1 **Level 1 - Broadcasting Wing - Demolition Plan**
1 : 100



10 **Level 1 Key Plan**

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DEMOLITION LEGEND

- Existing element to remain
- Existing wall to be demolished
- Existing element to be demolished
- Approximate extent of resilient sheet flooring to be removed
- Approximate extent of ceiling to be removed, retain light fixtures as indicated. Refer to Electrical drawings for lighting demolition scope.
- Existing door, frame, sidelite & hardware to be removed. Refer to Drawing Notes for doors to be reused. Hardware for other doors to be handed over to the College.
- Approximate existing area not in architectural scope (NIC). Mechanical and Electrical scope extends into these areas as noted on M&E drawings.

No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

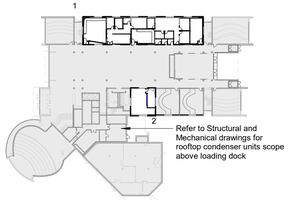
Demolition Plans - Level 1 & 2

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-015



66 Level 1 Key Plan

FINISHES LEGEND

- Carpet (CPT)
- Linoleum Sheet Flooring (RES)
- Sealed Concrete (SC) (Apply new sealer to existing slab. Sika floor-3S or equivalent)
- Static Dissipative Rubber Flooring (DRB)
- **FLM** Graphic Glazing Film: All designs for the custom graphic film will be provided by the consultant
- **Graphic Wallpaper** All designs for the custom graphic film will be provided by the consultant. Level 5 drywall finish required at Graphic Wallpaper locations.

AV & SECURITY LEGEND

- **TV-B (NIC)** Refer to Broadcasting AV documents for TV specification and dimensions for associated rough-ins. Provide blocking behind drywall.
- **TV-C (NIC)** TV supplied and installed by College AV. Provide blocking as required for mounting.
- Projector - supplied by others. Contractor to provide receptacle above drop ceiling. Ref to Electrical.
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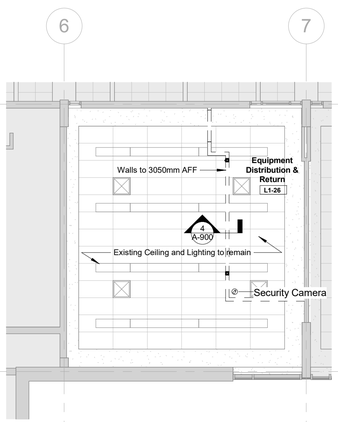
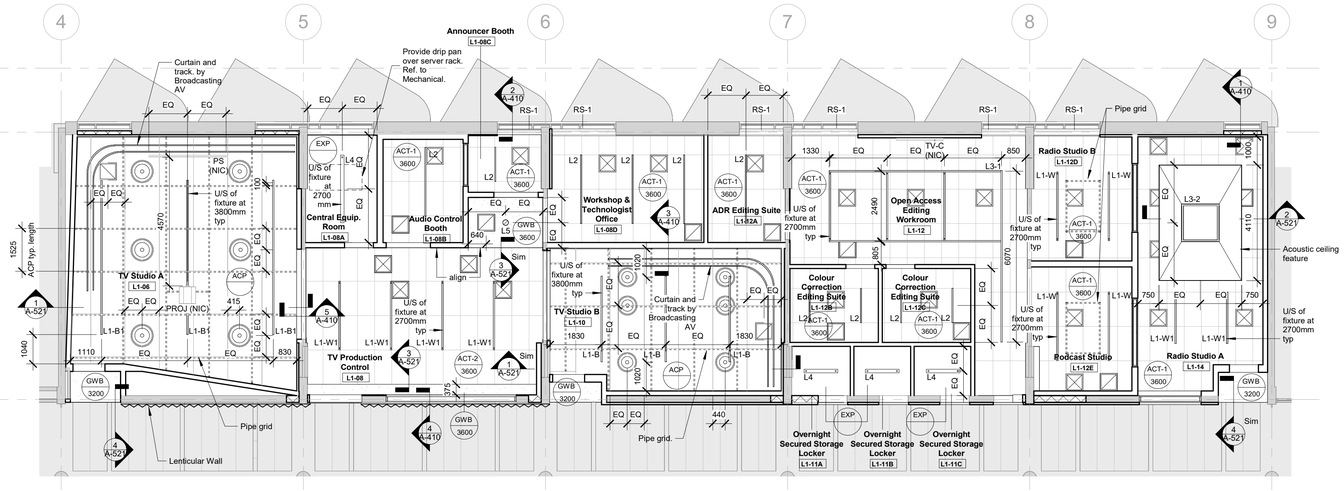
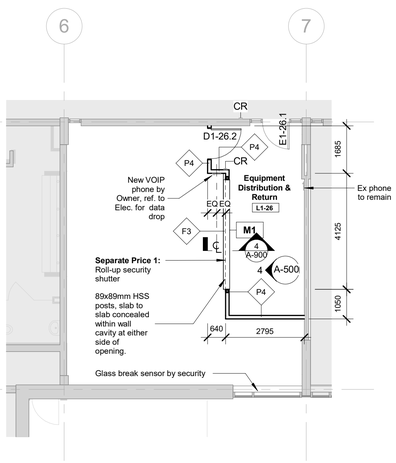
- **CR** Card reader by security vendor. Install 1100mm AFF. Refer to cash allowance.
- **Security Camera** CCTV Camera by security vendor. Refer to cash allowance. REfer to Electrical for data cable.



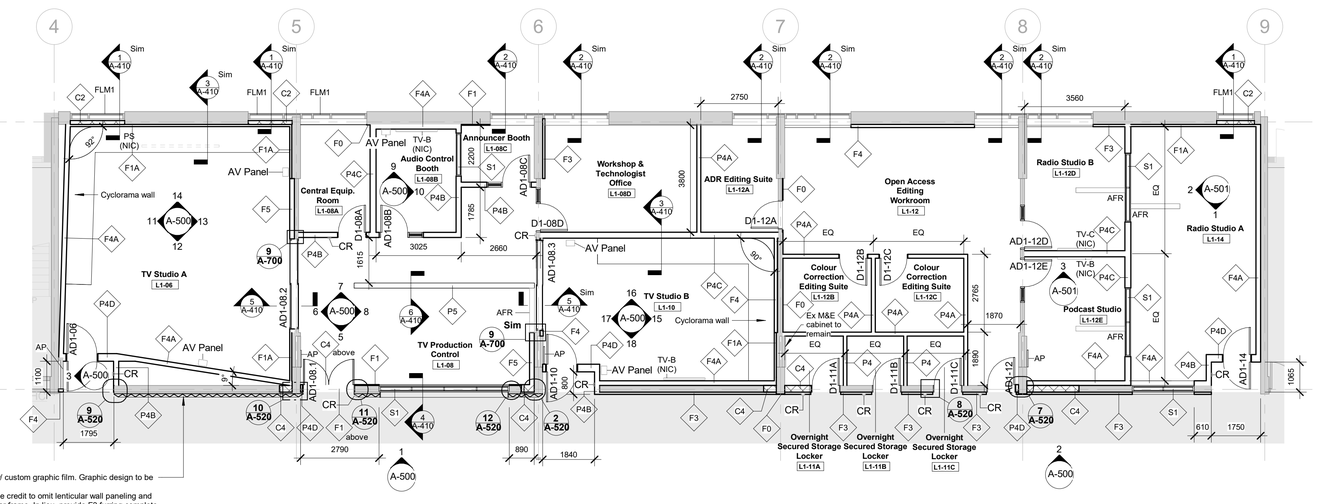
4 Level 1 - Equipment Distribution & Return - Proposed RCP
1 : 100



3 Level 1 - Broadcasting Wing - Proposed RCP
1 : 100



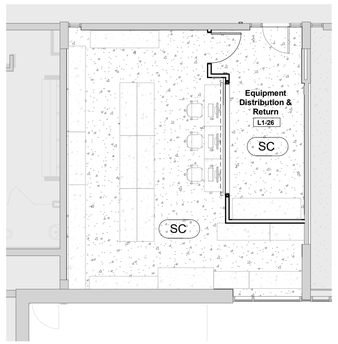
2 Level 1 - Equipment Distribution & Return - Plan
1 : 100



1 Level 1 - Broadcasting Wing - Plan
1 : 100

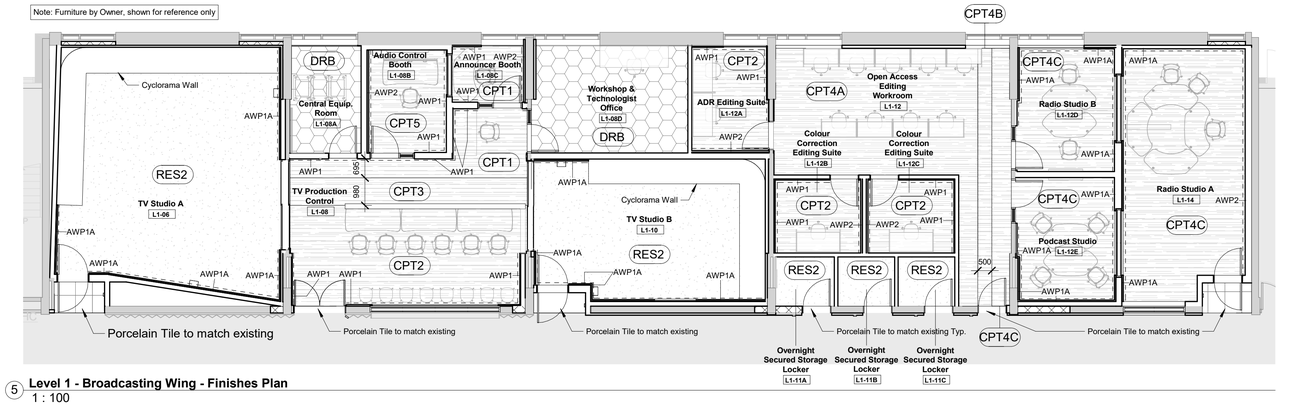
Lighting Fixture Schedule	
Type Mark	**Description**
L1-B	**Black Linear pendant**
L1-B1	**Black Linear pendant**
L1-W	**White Linear pendant**
L1-W1	**White Linear pendant**
L2	**Linear recessed**
L2-A	**Linear recessed**
L3-1	**Linear pendant light ladder**
L3-2	**Linear pendant square**
L4	**Linear utility pendant**
L5	**Recessed Pot Light**
L6	**Track Lights**
L7	**Existing 3 section linear to be split into shorter sections. Additional fixtures have been salvaged from Level 1 demolition so parts can be incorporated into this re-installation**

Note: Furniture by Owner, shown for reference only



6 Level 1 - Equipment Distribution & Return - Finishes Plan
1 : 100

Note: Furniture by Owner, shown for reference only



5 Level 1 - Broadcasting Wing - Finishes Plan
1 : 100

GOW HASTINGS ARCHITECTS

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LEGEND

- Existing element to remain
- New element as scheduled
- **PX** Partition Tag - refer to partition schedule
- **SX** Glazed Screen tag - refer to schedule
- **DXXX** New Door tag - refer to schedule
- **M1** Millwork Tag
- **N.I.C.** Not in Contract
- **EQ** Equal
- **FB** Floor Box, ref. to Elec. Abandoned floor boxes to be patched
- **AFR** Above Floor Raceway, ref. to Elec.
- **AP** Access Panel - infill framing and drywall around mechanical cabinet and provide new access door sized as required to service existing radiant heating controls.

RCP LEGEND

- xxx / x Ceiling Material / Height above Finished Floor
- ACP x / EXP x Exposed ceiling including exposed structure and mechanical/electrical infrastructure to be painted. At ACP ceiling, paint any exposed structure, and M&E infrastructure
- Linear Pendant fixture - Ref. to Elec.
- Potlight - Ref. to Elec.
- Recessed lighting fixture - Ref. to Elec.
- Track light fixture - Ref. to Elec.
- Return air grille - REf. to Mech
- Square Cone Diffuser - Ref. to Mech.
- Round Cone Diffuser - Ref. to Mech.
- **RS-1** Existing roller shade. Replace existing light filtering fabric with black-out and provide vertical end tracks. Fabric colour to match existing

No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

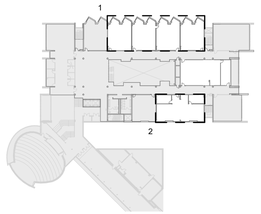
Level 1 - Floor Plans, RCPs and Finishes Plans

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-100



6 **Level 2 Key Plan**

FINISHES LEGEND

- Carpet (CPT)
- Linoleum Sheet Flooring (RES)
- Sealed Concrete (SC) (Apply new sealer to existing slab. Sika floor-3S or equivalent)
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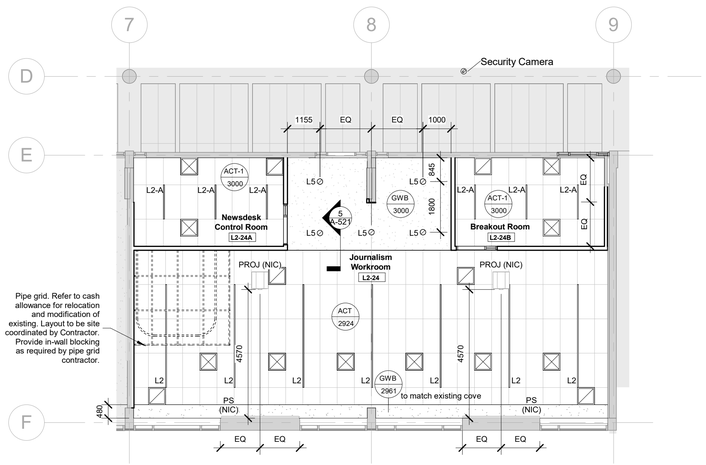
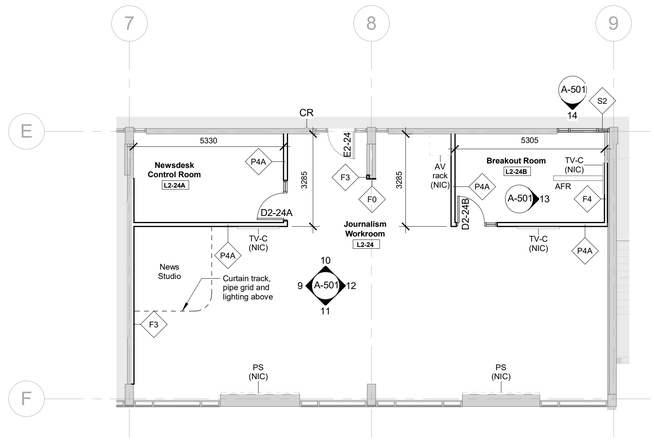
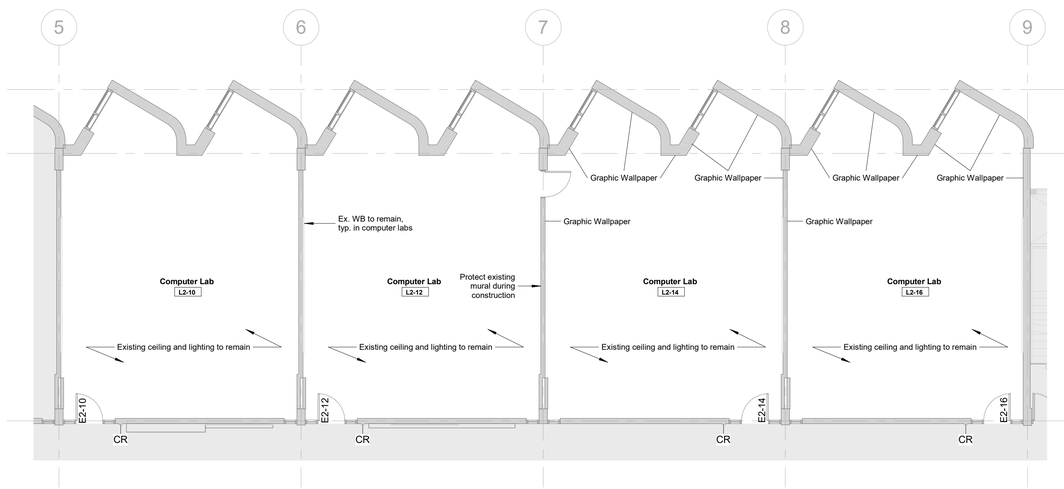


3 **Level 2 - Journalism - Proposed RCP**
1 : 100



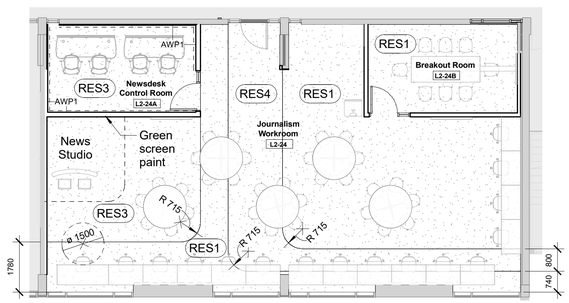
2 **Level 2 - Journalism - Plan**
1 : 100

Contractor to remove and reinstate ceiling to accomodate new mech. ductwork. Replace any ceiling tiles or t-bar damaged during removal, typ.



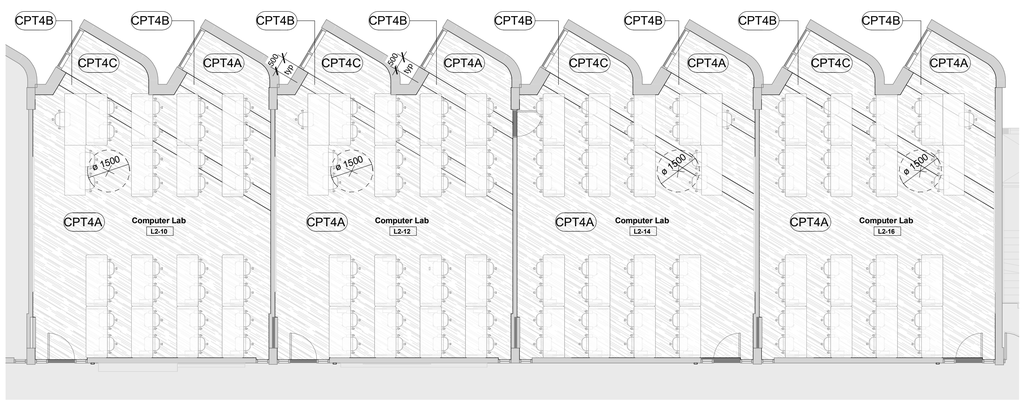
1 **Level 2 - Computer Labs - Plan**
1 : 100

Note: Furniture by Owner, shown for reference only



5 **Level 2 - Journalism - Finishes Plan**
1 : 100

Notes:
1. Furniture by Owner, shown for reference only
2. Install acoustic underlayment beneath all CPT types in the computer labs



4 **Level 2 - Computer Labs - Finishes Plan**
1 : 100

GOW HASTINGS ARCHITECTS

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TORONTO ONTARIO M5R 2V3
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LEGEND

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- New element as scheduled
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- SX — Glazed Screen tag - refer to schedule
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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

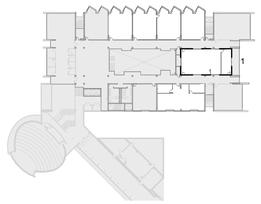
Level 2 - Floor Plans, RCPs and Finishes Plans

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-101



4 **Level 2 Key Plan**

FINISHES LEGEND

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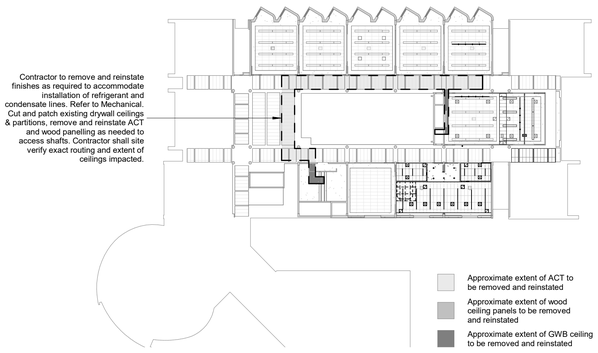
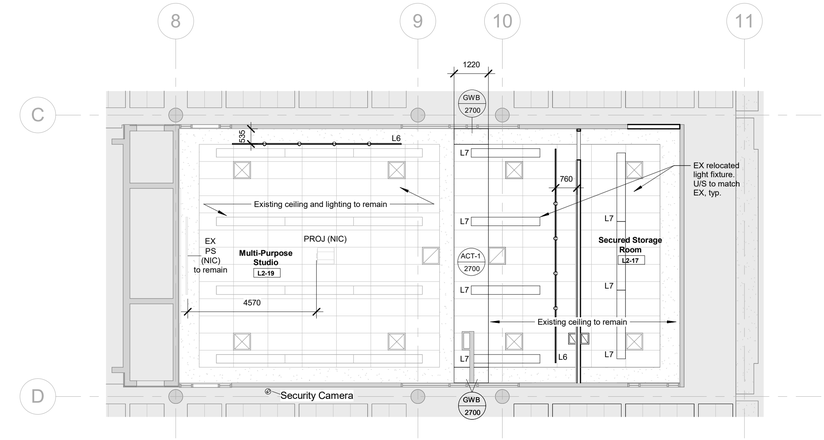


5 **Level 2 - Ceiling rework to accommodate mechanical routing**
1 : 500

6 **Level 1 - Ceiling rework to accommodate mechanical routing**
1 : 500

Finishes Schedule								
Number	**Name**	**Floor Finish**	**Base Finish**	**Ceiling Finish**	**North Wall Finish**	**East Wall Finish**	**South Wall Finish**	**West Wall Finish**
L1-06	TV Studio A	RES2	RB	ACP	PT	AWP1A	AWP1A	AWP1A/PT
L1-08	TV Production Control	CPT1/CPT2/CPT3	RB	ACT/GWB	AWP1	AWP1	AWP1	AWP1
L1-08A	Central Equip. Room	DRB	RB	EXP	PT	PT	PT	PT
L1-08B	Audio Control Booth	CPT5	RB	ACT	PT	AWP1	AWP1	AWP2
L1-08C	Announcer Booth	CPT1	RB	ACT	AWP1	AWP2	AWP1	PT
L1-08D	Workshop & Technologist Office	DRB	RB	ACT	PT	PT	PT	PT
L1-10	TV Studio B	RES2	RB	ACP	AWP1A/PT	PT	AWP1A	AWP1A
L1-11A	Overnight Secured Storage Locker	RES2	RB	EXP	PT	PT	PT	PT
L1-11B	Overnight Secured Storage Locker	RES2	RB	EXP	PT	PT	PT	PT
L1-11C	Overnight Secured Storage Locker	RES2	RB	EXP	PT	PT	PT	PT
L1-12	Open Access Editing Workroom	CPT4A/CPT4B/CPT4C	RB	ACT	PT	PT	PT	PT
L1-12A	ADR Editing Suite	CPT2	RB	ACT	AWP1	AWP1	AWP2	PT
L1-12B	Colour Correction Editing Suite	CPT2	RB	ACT	AWP1	AWP2	PT	AWP1
L1-12C	Colour Correction Editing Suite	CPT2	RB	ACT	AWP1	AWP1	PT	AWP2
L1-12D	Radio Studio B	CPT4C	RB	ACT	AWP1A	AWP1A	PT	AWP1A
L1-12E	Podcast Studio	CPT4C	RB	ACT	PT	AWP1A	AWP1A	AWP1A
L1-14	Radio Studio A	CPT4C	RB	ACT	AWP1A	AWP2	PT	AWP1A
L1-26	Equipment Distribution & Return	SC	RB	EX	-	PT	PT	PT
L2-10	Computer Lab	CPT4A/CPT4B/CPT4C	RB	EX	PT	PT	-	PT
L2-12	Computer Lab	CPT4A/CPT4B/CPT4C	RB	EX	PT	-	-	PT
L2-14	Computer Lab	CPT4A/CPT4B/CPT4C	RB	EX	PT/FLM	PT/FLM	-	PT/FLM
L2-16	Computer Lab	CPT4A/CPT4B/CPT4C	RB	EX	PT/FLM	PT/FLM	-	PT/FLM
L2-17	Secured Storage Room	EX	RB	EX	PT	PT	PT	PT
L2-19	Multi-Purpose Studio	EX	RB	EX/ACT/GWB	PT	PT	PT	PT
L2-24	Journalism Workroom	RES1/RES3/RES4	RB	ACT/GWB	-	PT	PT	PT
L2-24A	Newsdesk Control Room	RES3	RB	ACT	AWP1	AWP1	AWP1	AWP1
L2-24B	Breakout Room	RES1	RB	ACT	-	PT	PT	PT



2 **Level 2 - Multipurpose Studio - Proposed RCP**
1 : 100

1 **Level 2 - Multipurpose Studio - Plan**
1 : 100

Note: Furniture by Owner, shown for reference only

3 **Level 2 - Multipurpose Studio - Finishes Plan**
1 : 100

GOW HASTINGS ARCHITECTS

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LEGEND

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- **EQ** Equal
- FB — Floor Box, ref. to Elec. Abandoned floor boxes to be patched
- AFR — Above Floor Raceway, ref. to Elec.
- AP — Access Panel - infill framing and drywall around mechanical cabinet and provide new access door sized as required to service existing radiant heating controls.

RCP LEGEND

- xxx / x — Ceiling Material / Height above Finished Floor
- ACP / EXP / x — Exposed ceiling including exposed structure and mechanical/electrical infrastructure to be painted. At ACP ceiling, paint any exposed structure, and M&E infrastructure
- Linear Pendant fixture - Ref. to Elec.
- Potlight - Ref. to Elec.
- Recessed lighting fixture - Ref. to Elec.
- Track light fixture - Ref. to Elec.
- Return air grille - REf. to Mech
- Square Cone Diffuser - Ref. to Mech.
- Round Cone Diffuser - Ref. to Mech.
- RS-1 — Existing roller shade. Replace existing light filtering fabric with black-out and provide vertical end tracks. Fabric colour to match existing

Picture Rail:
STAS mini-rail
9x16mm - 25kg/m capacity
Wall mount installation
Provide 20 STAS cobra chords with white steel cable and 20 STAS zipper hooks

No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Level 2 - Floor Plans, RCPs and Finishes Plans & Schedule

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-102

GOW HASTINGS ARCHITECTS

275 SPADINA ROAD
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416-920-0031
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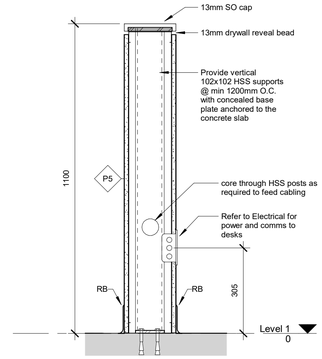
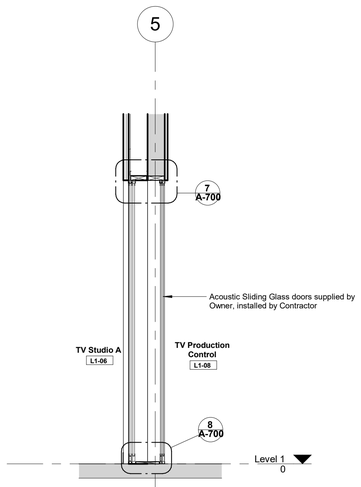
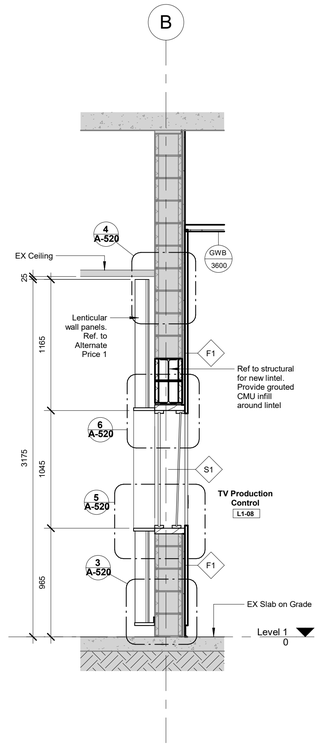


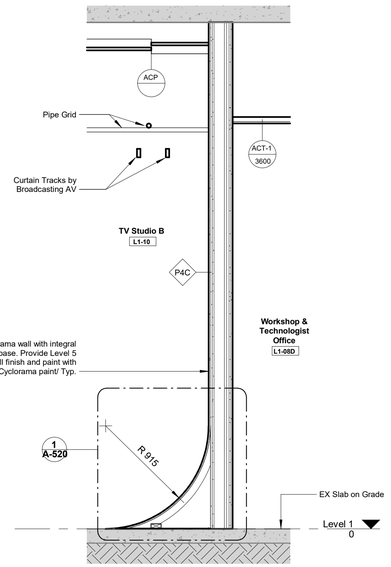
6 **Wall Section - Pony Wall at TV Production Control**
1 : 10



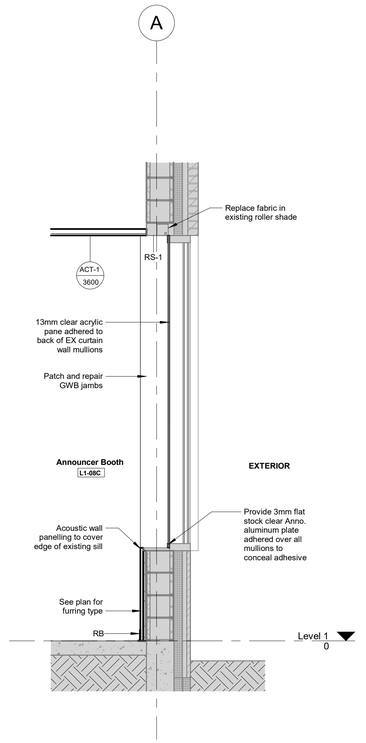
5 **Wall Section - Acoustic Sliding Doors to TV Studio**
1 : 25



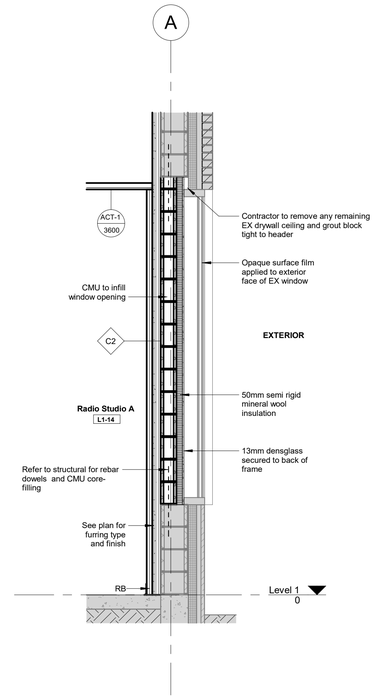
4 **Wall Section - Window to TV Production Control**
1 : 25



3 **Wall Section at Cyclorama Wall**
1 : 25



2 **Wall Section - Existing CW at North Facade**
1 : 25



1 **Wall Section - CMU Infill at Existing CW**
1 : 25

No.	ISSUED/REVISED	DATE
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Centennial Story Arts Centre Relocation

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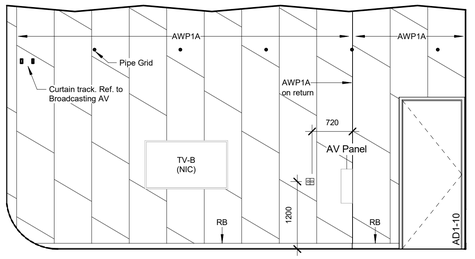
Wall Sections

Project North

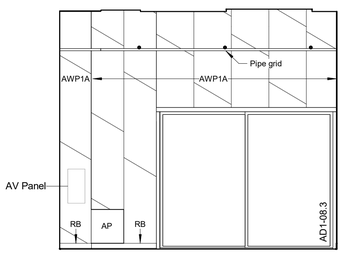
Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

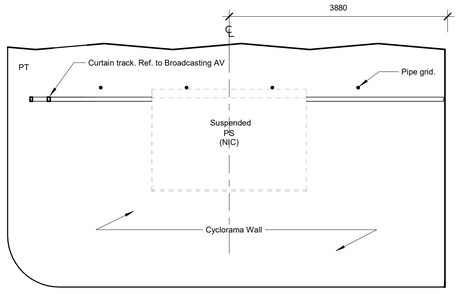
A-410



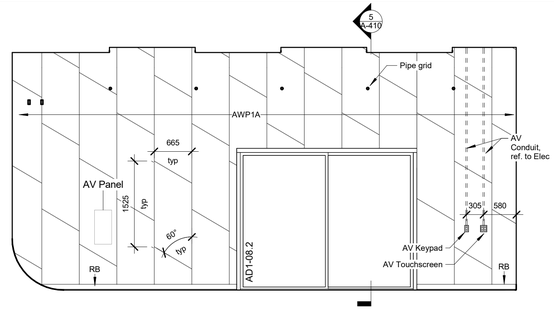
18 **TV Studio B - L1-10 - South**
1 : 50



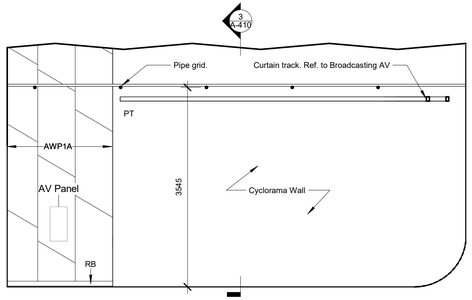
17 **TV Studio B - L1-10 - West**
1 : 50



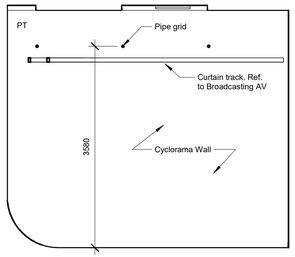
14 **TV Studio A - L1-06 - North**
1 : 50



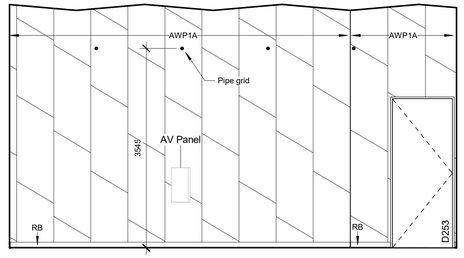
13 **TV Studio A - L1-06 - East**
1 : 50



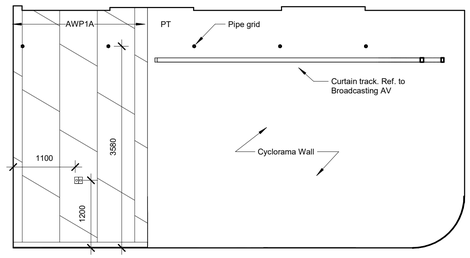
16 **TV Studio B - L1-10 - North**
1 : 50



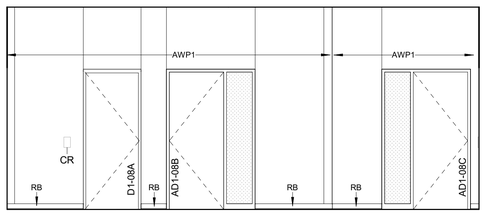
15 **TV Studio B - L1-10 - East**
1 : 50



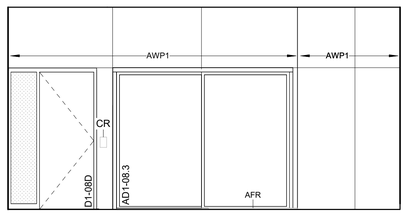
12 **TV Studio A - L1-06 - South**
1 : 50



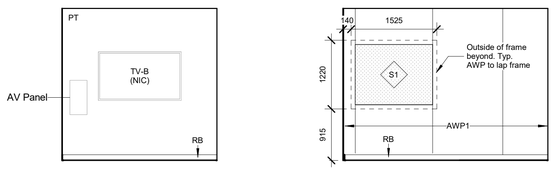
11 **TV Studio A - L1-06 - West**
1 : 50



7 **TV Production Control - L1-08 - North**
1 : 50

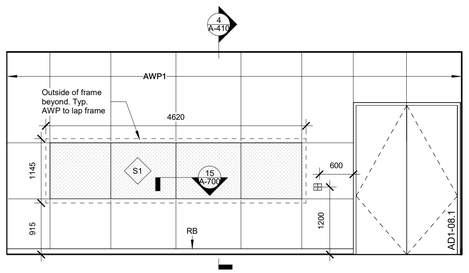


8 **TV Production Control - L1-08 - East**
1 : 50

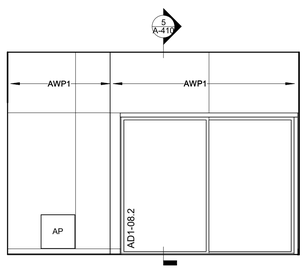


9 **Audio Control Booth - L1-08B - North**
1 : 50

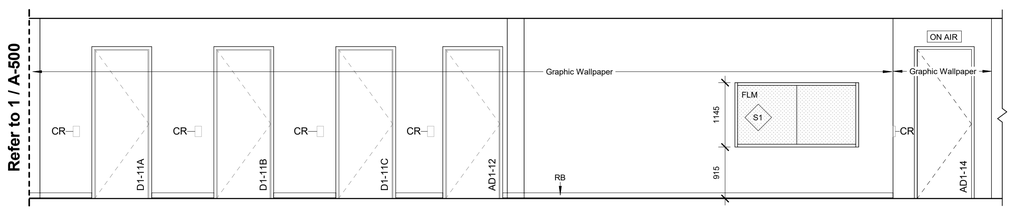
10 **Audio Control Booth - L1-08B - East**
1 : 50



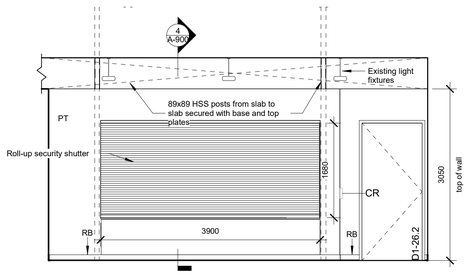
5 **TV Production Control - L1-08 - South**
1 : 50



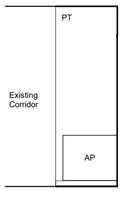
6 **TV Production Control - L1-08 - West**
1 : 50



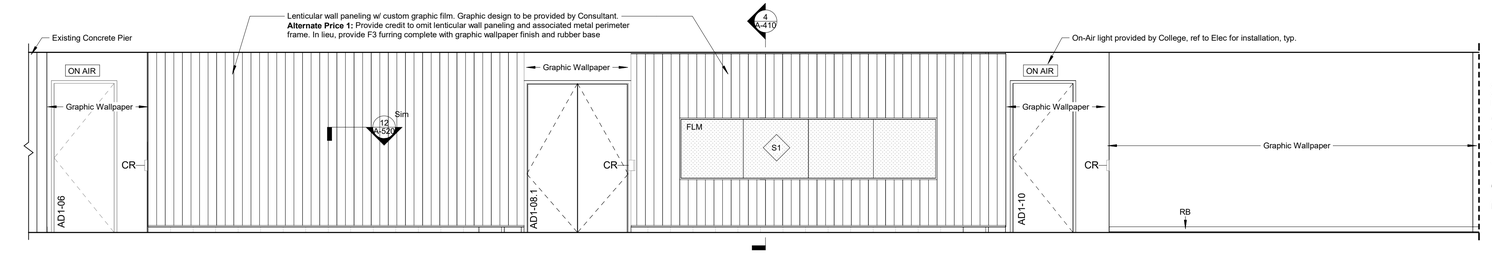
2 **Broadcast Corridor East - Centennial Commons**
1 : 50



4 **Equipment Distribution & Return - L1-26 - West**
1 : 50



3 **TV Studio A - Entry**
1 : 50



1 **Broadcast Corridor West - Centennial Commons**
1 : 50

GOW HASTINGS ARCHITECTS

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ELEVATION LEGEND

	Concrete
	CMU Stack Bond
	Glass
FLM	Graphic Glazing Film: All designs for the custom graphic film will be provided by the client.
Graphic Wallpaper	All designs for the custom graphic film will be provided by the consultant. Level 5 drywall finish required at Graphic Wallpaper locations.
AP	Access Panel - infill framing and drywall around mechanical cabinet and provide new access door sized as required to service existing radiant heating controls.
	Thermostat and Mechanical Controls. Refer to Mechanical.

Note: Pattern is to show extent only and does not represent the actual layout.

AV & SECURITY LEGEND

TV-B (NIC)	Refer to Broadcasting AV documents for TV specification and dimensions for associated rough-ins. Provide blocking behind drywall.
TV-C (NIC)	TV supplied and installed by College AV. Provide blocking as required for mounting.
	Projector - supplied by others. Contractor to provide receptacle above drop ceiling. Ref to Electrical.
PS (NIC)	Projector Screen - supplied by others. Installation by Contractor. Provide blocking as required for mounting. Contractor to provide receptacle above drop ceiling for screen relay box.
AV Panel	AV Panel - refer to Broadcasting AV documents.
Pipe grid	Refer to cash allowance for relocation and modification of existing. Layout to be site coordinated by Contractor. Provide in-wall blocking as required by pipe grid contractor.
CR	Card reader by security vendor. Install 1100mm AFF. Refer to cash allowance.
Security Camera	CCTV Camera by security vendor. Refer to cash allowance. REfer to Electrical for data cable.

No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

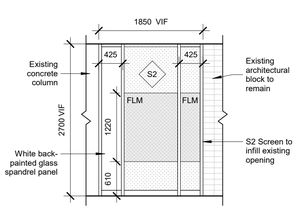
941 Progress Ave, Scarborough, ON, M1G 3T8

Interior Elevations

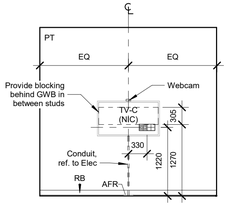
Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

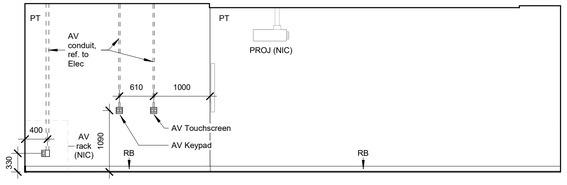
A-500



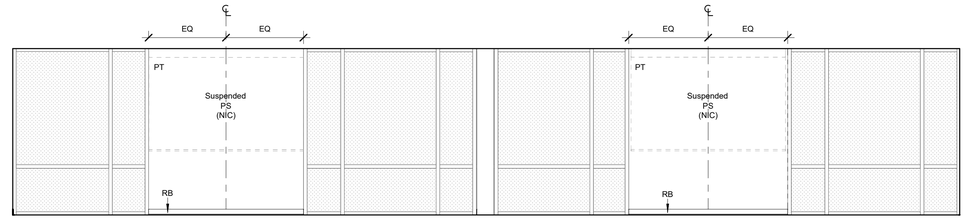
14 **Level 2 Journalism Corridor**
1 : 50



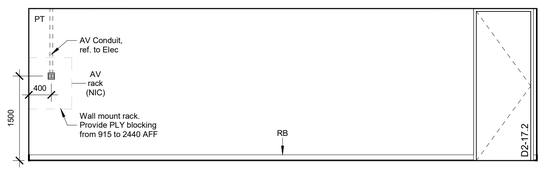
13 **Breakout Room - L2-24B - East**
1 : 50



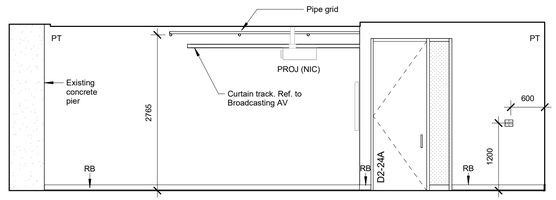
12 **Journalism Workroom - L2-24 - East**
1 : 50



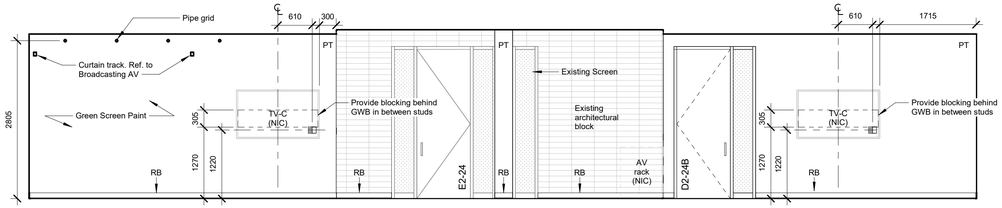
11 **Journalism Workroom - L2-24 - South**
1 : 50



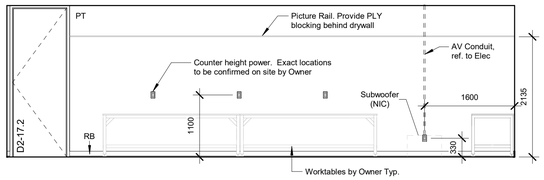
8 **Secured Storage Room - L2-17 - West**
1 : 50



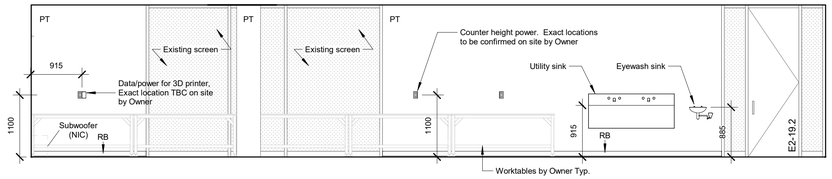
9 **Journalism Workroom - L2-24 - West**
1 : 50



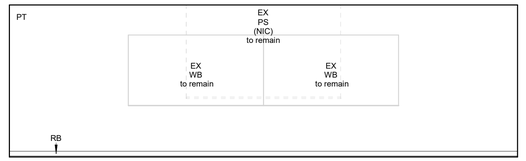
10 **Journalism Workroom - L2-24 - North**
1 : 50



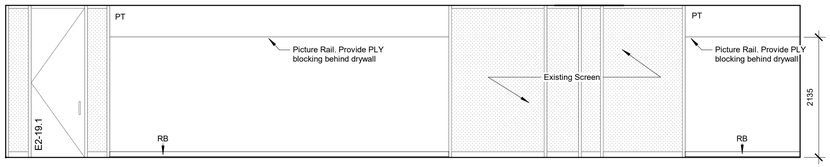
7 **Multi-Purpose Studio - L2-19 - East**
1 : 50



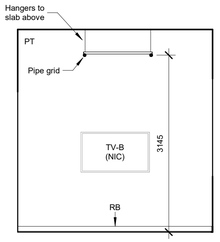
6 **Multi-Purpose Studio - L2-19 - South**
1 : 50



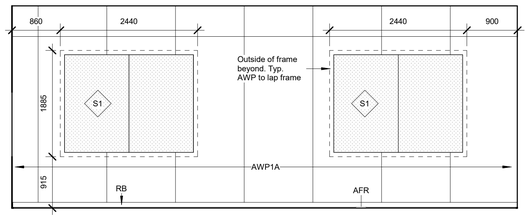
5 **Multi-Purpose Studio - L2-19 - West**
1 : 50



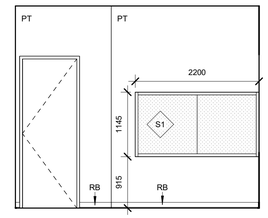
4 **Multi-Purpose Studio - L2-19 - North**
1 : 50



3 **Podcast Studio - L1-12E - North**
1 : 50



2 **Radio Studio - L1-14 - West**
1 : 50



1 **Radio Studio - L1-14 - South**
1 : 50

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ELEVATION LEGEND

- Concrete
- CMU Stack Bond
- Glass
- **FLM** — Graphic Glazing Film: All designs for the custom graphic film will be provided by the client.
- **Graphic Wallpaper** — All designs for the custom graphic film will be provided by the consultant. Level 5 drywall finish required at Graphic Wallpaper locations.
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- Thermostat and Mechanical Controls. Refer to Mechanical.

Note: Pattern is to show extent only and does not represent the actual layout.

AV & SECURITY LEGEND

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- **AV Panel** — AV Panel - refer to Broadcasting AV documents.
- **Pipe grid** — Refer to cash allowance for relocation and modification of existing. Layout to be site coordinated by Contractor. Provide in-wall blocking as required by pipe grid contractor.
- **CR** — Card reader by security vendor. Install 1100mm AFF. Refer to cash allowance.
- **Security Camera** — CCTV Camera by security vendor. Refer to cash allowance. REfer to Electrical for data cable.

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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

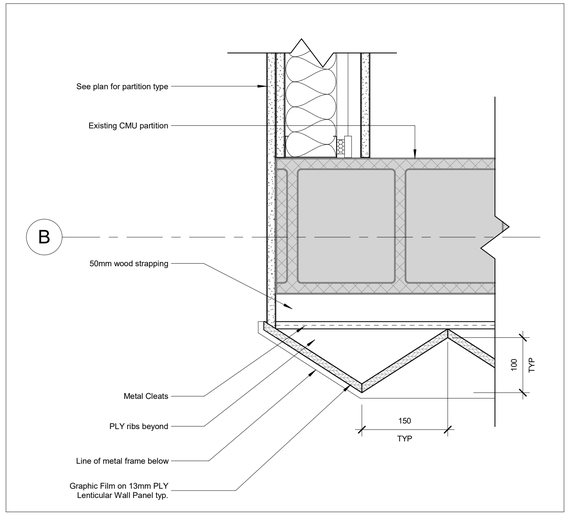
Interior Elevations

Project North

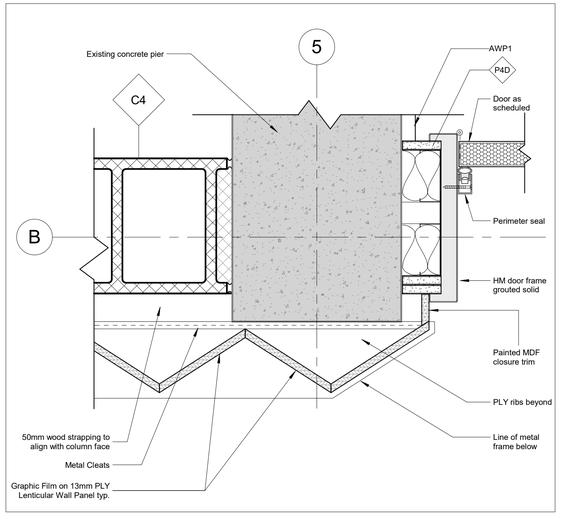
Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

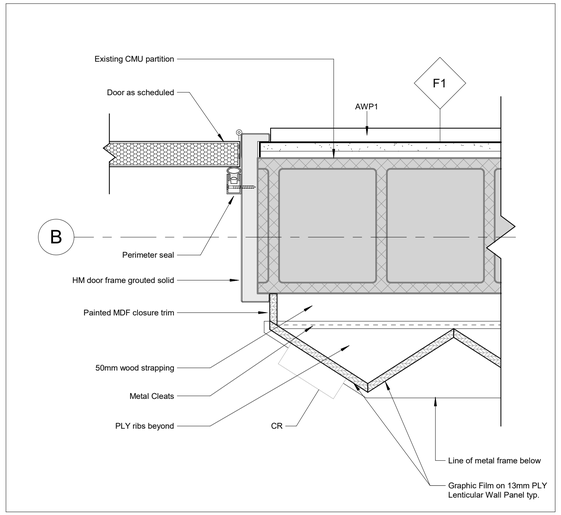
A-501



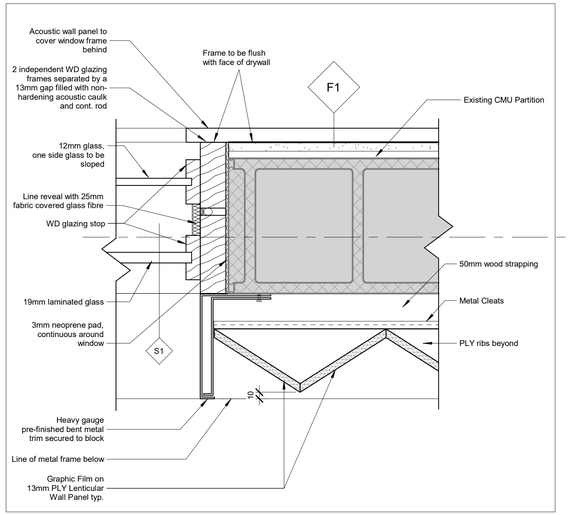
9 **Plan Detail - Lenticular Wall Panel Edge at TV Studio A**
1 : 5



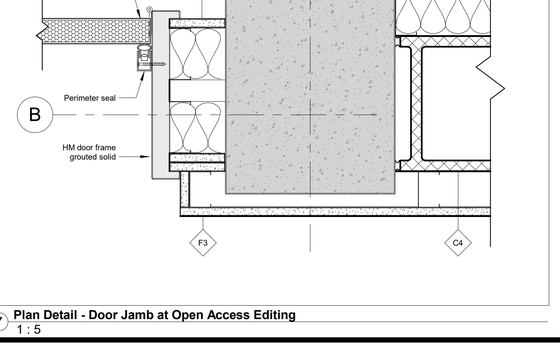
10 **Plan Detail - Lenticular Wall Panel at Production Control Door 1**
1 : 5



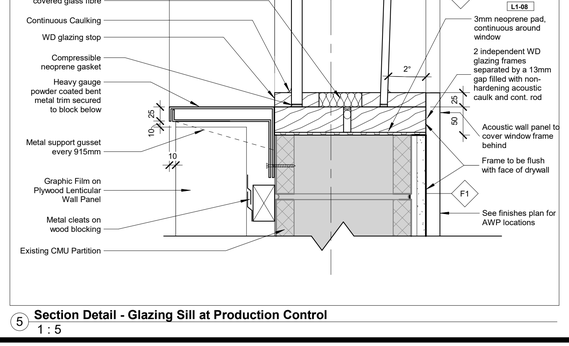
11 **Plan Detail - Lenticular Wall Panel at Production Control Door 2**
1 : 5



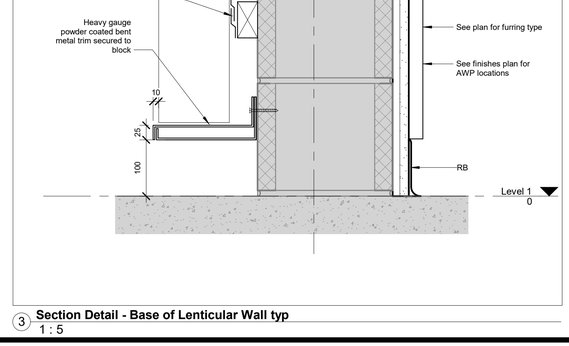
12 **Plan Detail - Lenticular Wall Panel at Production Control Window**
1 : 5



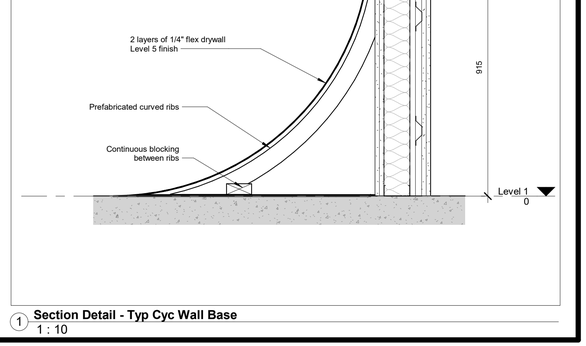
8 **Plan Detail - Typ Door Jamb at Overnight Secured Storage Locker**
1 : 5



6 **Section Detail - Glazing Head at Production Control**
1 : 5



4 **Section Detail - Top of Lenticular Wall typ**
1 : 5



2 **Plan Detail - Lenticular Wall Panel Edge at TV Studio B**
1 : 5

7 **Plan Detail - Door Jamb at Open Access Editing**
1 : 5

5 **Section Detail - Glazing Sill at Production Control**
1 : 5

3 **Section Detail - Base of Lenticular Wall typ**
1 : 5

1 **Section Detail - Typ Cyc Wall Base**
1 : 10

GOW HASTINGS ARCHITECTS

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No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

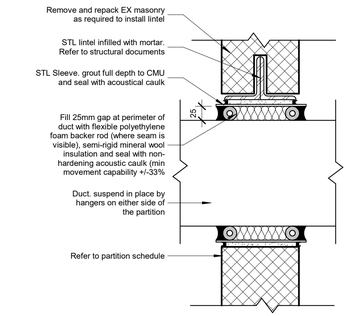
Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

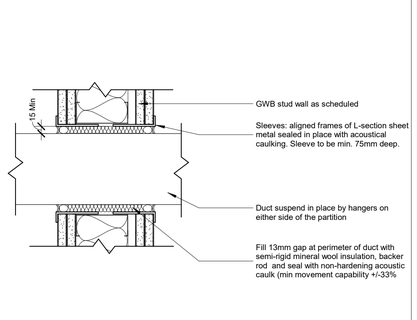
Interior Details

Scale: As indicated	
Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

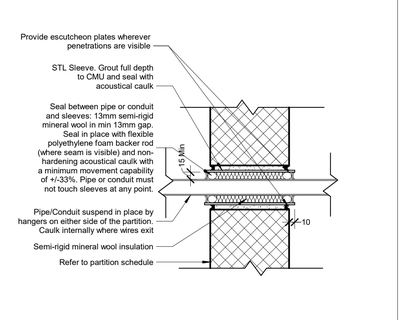
A-520



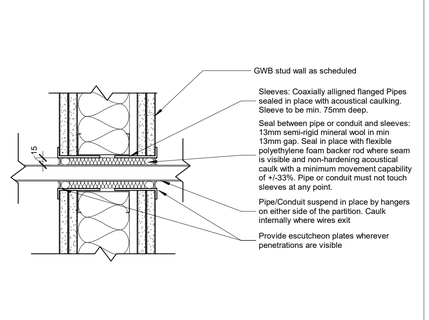
13 **Duct Seal at Acoustic Partition - CMU**
1 : 5



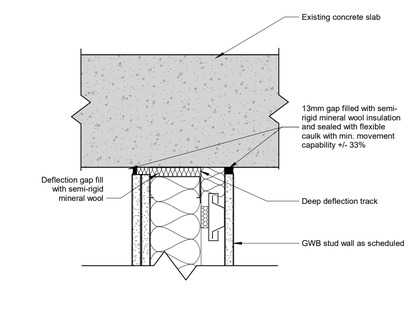
12 **Duct Seal at Acoustic Partition - GWB**
1 : 5



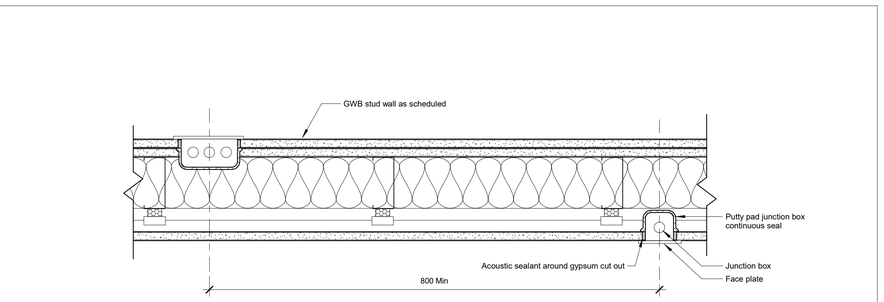
11 **Pipe/Conduit Seal at Acoustic Parition - CMU**
1 : 5



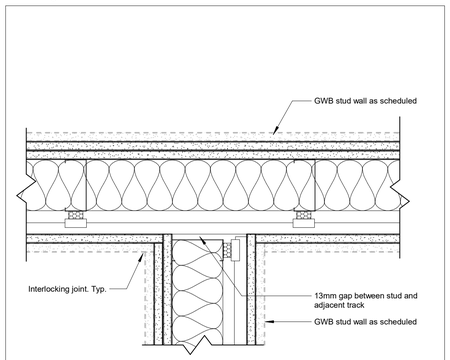
10 **Pipe/Conduit Seal - GWB**
1 : 5



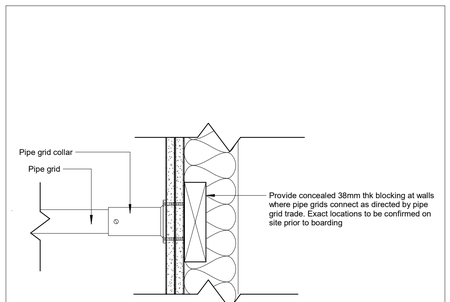
9 **Typical Wall Header at Acoustic Partition**
1 : 5



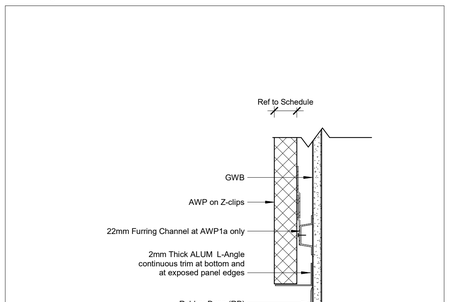
14 **Typical Electrical & AV Box Noise Control at Acoustic Partitions**
1 : 5



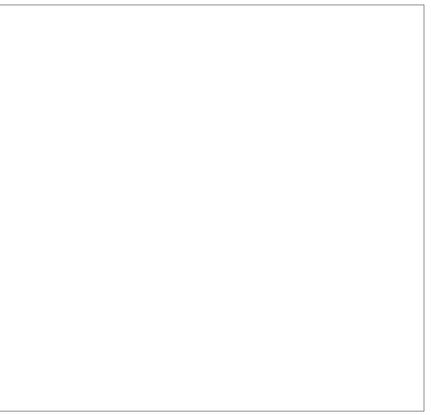
8 **Typical Acoustic Flanking Control Detail**
1 : 5

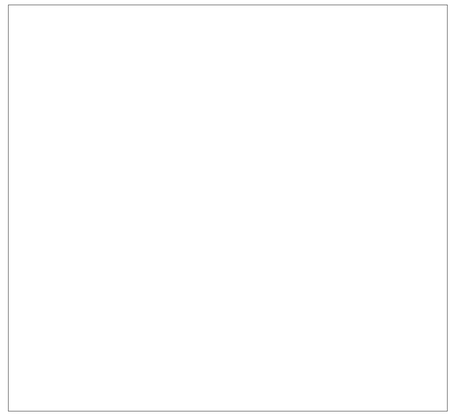


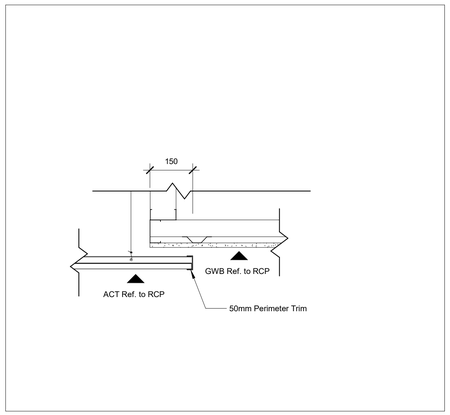
7 **Typical Pipe grid wall support detail**
1 : 5



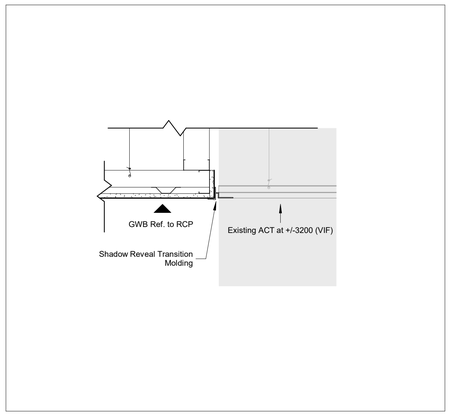
6 **Typical Wall Base at AWP**
1 : 5



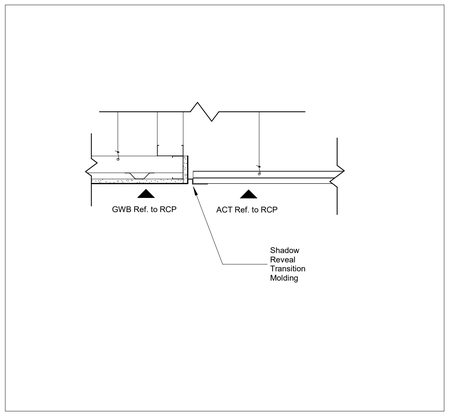




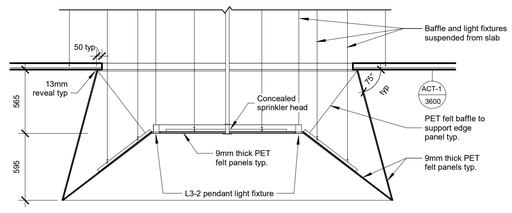
5 **Ceiling Detail - ACT to GWB at Journalism**
1 : 10



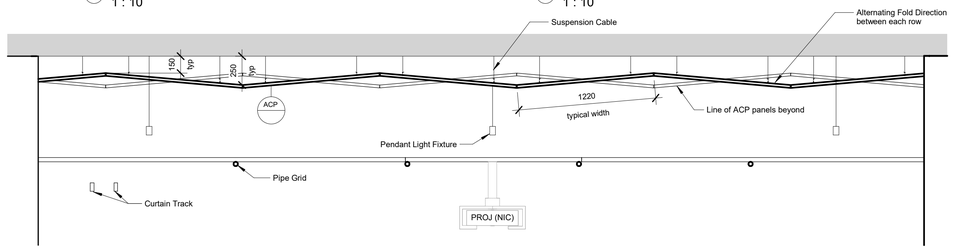
4 **Ceiling Detail - Existing Corridor to GWB Cove**
1 : 10



3 **Ceiling Detail - ACT to GWB**
1 : 10



2 **Section - Radio Studio Feature Ceiling**
1 : 25



1 **Section - TV Studio Ceiling**
1 : 25

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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Interior Details

Project North

Scale: As indicated

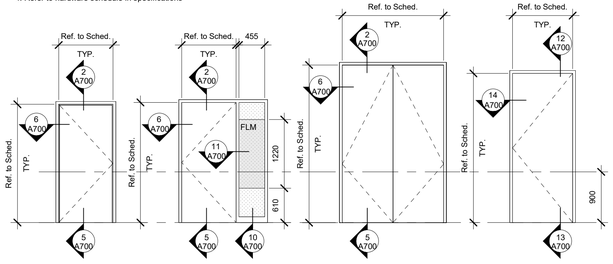
Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-521

DOOR SCHEDULE

DOOR TYPE SCHEDULE NOTES

1. All glazing to be tempered
2. All fire rated assemblies to be Fire rated glass
3. All HM frames to be 2" profile unless noted otherwise
4. Refer to hardware schedule in specifications

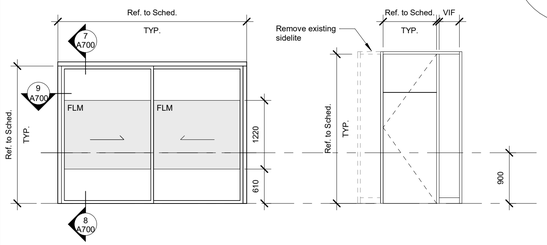


TYPE A:
SINGLE LEAF DOOR
REFER TO SCHEDULE FOR DETAILS

TYPE B:
SINGLE LEAF DOOR W/ DOUBLE GLAZED SIDELITE
REFER TO SCHEDULE FOR DETAILS

TYPE C:
DOUBLE LEAF DOOR
REFER TO SCHEDULE FOR DETAILS

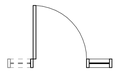
TYPE D:
ACOUSTIC DOOR IN TANDEM
REFER TO SCHEDULE FOR DETAILS



TYPE E:
ACOUSTIC SLIDING GLASS DOORS
REFER TO SCHEDULE FOR DETAILS

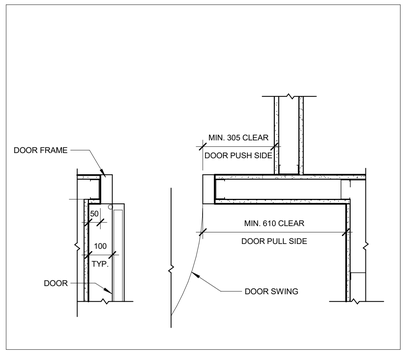
NOTE: DOOR HAS BEEN PRE-ORDERED BY THE COLLEGE DUE TO LONG LEAD TIME. INSTALLATION BY CONTRACTOR. STUD FRAMING TO BE CAREFULLY COORDINATED WITH DOOR SHOP DRAWINGS TO ENSURE FIT

TYPE F:
EX SINGLE LEAF DOOR W/ SIDELITE IN ALUM FRAME
EX DOOR HAS TWO SIDELITES. HINGE SIDE SIDELITE TO BE REMOVED. DOOR TO BE SALVAGED, MODIFIED AND REINSTALLED.
REFER TO SCHEDULE FOR DETAILS

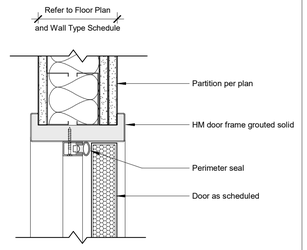


Door Schedule

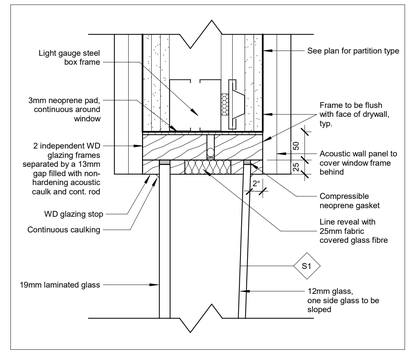
Door No.	To Room: Number	Type Mark	Height	Width	Door Mat'l	Door Finish	Frame Mat'l	Frame Finish	Card Reader	Acoustic	Comments
AD1-06	L1-06	D	2650	1067	HM	PT	HM	PT	Yes	Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required. Apply Graphic Wallpaper to exterior face of door.
AD1-08.1	L1-08	C	2650	1800	HM	PT	HM	PT	Yes	Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required. Apply Graphic Wallpaper to exterior face of door.
AD1-08.2	L1-06	E	2440	3200						Yes	Door pre-ordered by College, Installation by Contractor
AD1-08.3		E	2440	3200						Yes	Door pre-ordered by College, Installation by Contractor
AD1-08B	L1-08B	B	2440	965	HM	PT	HM	PT		Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required
AD1-08C	L1-08C	B	2440	965	HM	PT	HM	PT		Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required
AD1-10	L1-10	D	2650	1067	HM	PT	HM	PT	Yes	Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required. Apply Graphic Wallpaper to exterior face of door.
AD1-12	L1-12	A	2650	965	HM	PT	HM	PT	Yes	Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required. Apply Graphic Wallpaper to exterior face of door.
AD1-12D	L1-12D	B	2440	965	HM	PT	HM	PT		Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required
AD1-12E	L1-12	B	2440	965	HM	PT	HM	PT		Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required
AD1-14	L1-14	D	2650	965	HM	PT	HM	PT	Yes	Yes	Mineral Fibre Core, Sound Seals at head and jamb, Automatic bottom drop seal, automatic closer required. Apply Graphic Wallpaper to exterior face of door.
D1-08A	L1-08A	A	2440	965	HM	PT	HM	PT	Yes		
D1-08D	L1-08D	B	2440	965	HM	PT	HM	PT	Yes		
D1-11A	L1-11A	A	2650	965	HM	PT	HM	PT	Yes		Apply Graphic Wallpaper to exterior face of door.
D1-11B	L1-11B	A	2650	965	HM	PT	HM	PT	Yes		Apply Graphic Wallpaper to exterior face of door.
D1-11C	L1-11C	A	2650	965	HM	PT	HM	PT	Yes		Apply Graphic Wallpaper to exterior face of door.
D1-12A	L1-12A	A	2440	965	HM	PT	HM	PT			
D1-12B	L1-12B	A	2440	965	HM	PT	HM	PT			
D1-12C	L1-12C	A	2440	965	HM	PT	HM	PT			
D1-26.2	L1-26	QQQ QQ	2440	1067	HM	PT	HM	PT	Yes		
D2-17.2	L2-17	A	2650	965	HM	PT	HM	PT			
D2-24A	L2-24A	F	2650	950	EX WD	-	EX ALUM	-			Existing door and sidelite modified and relocated as indicated
D2-24B	L2-24B	F	2650	950	EX WD	-	EX ALUM	-			Existing door and sidelite modified and relocated as indicated
E1-26.1	L1-26		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-10	L2-10		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-12	L2-12		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-14	L2-14		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-16	L2-16		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-17.1	L2-17		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-19.1	L2-19		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-19.2	L2-19		2650	899	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.
E2-24	L2-24		2650	950	EX WD	-	EX ALUM	-	Yes		Existing door to be modified to accommodate new hardware.



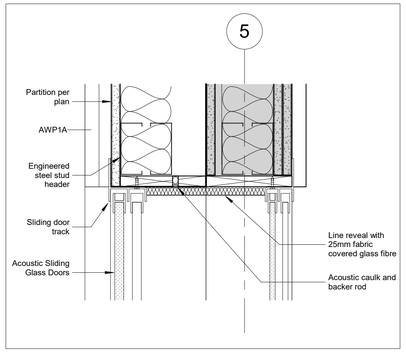
1 **Door Plan Detail- Typical Door Clearance**
1 : 12



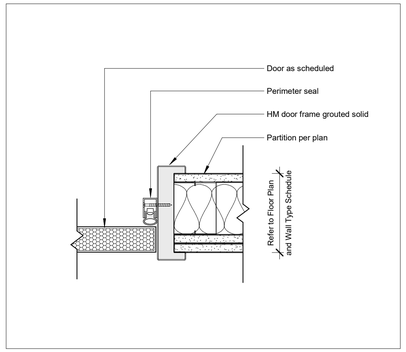
2 **Typical Acoustic Door Header Detail**
1 : 5



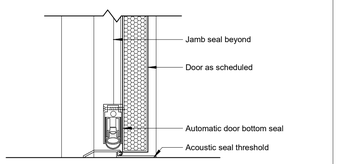
3 **Section Detail - Typ S1 Glazing Head**
1 : 5



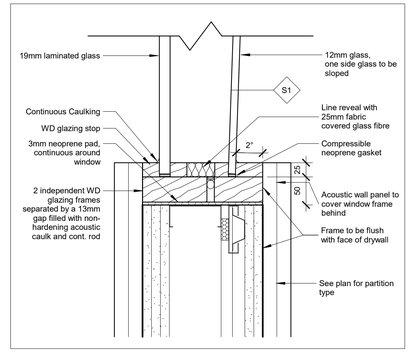
7 **Typical Door Header Detail - Type E Acoustic Sliding Glass Doors**
1 : 5



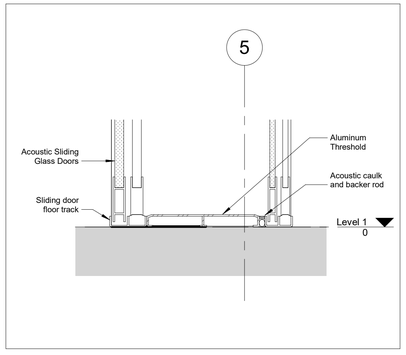
6 **Typical Acoustic Door Jamb Detail**
1 : 5



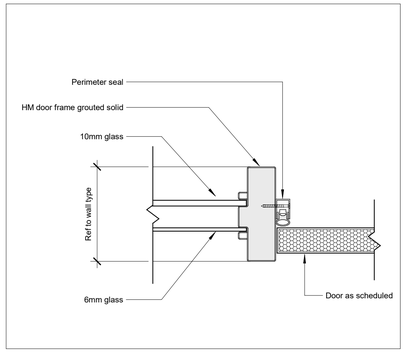
5 **Typical Acoustic Door Sill Detail**
1 : 5



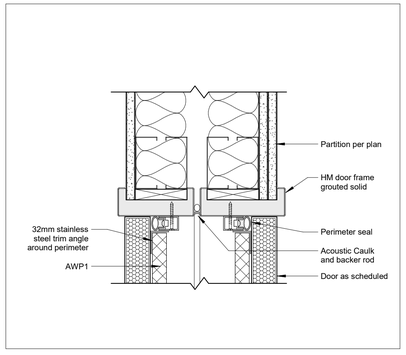
4 **Section Detail - Typ S1 Glazing Sill**
1 : 5



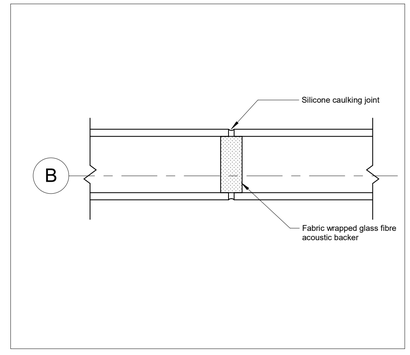
8 **Typical Door Sill Detail - Type E Acoustic Sliding Glass Doors**
1 : 5



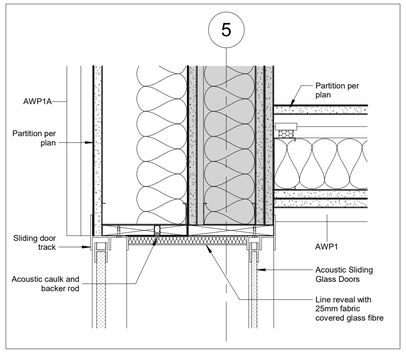
11 **Typical Acoustic Door Jamb Detail at Sidelite**
1 : 5



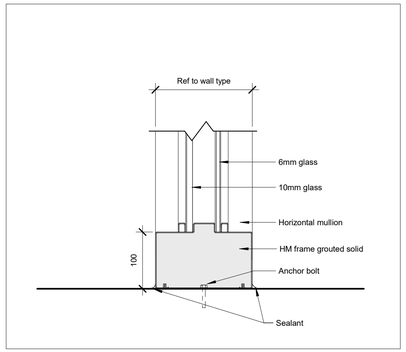
12 **Typical Door Header Detail - Type D Back-to-Back Door**
1 : 5



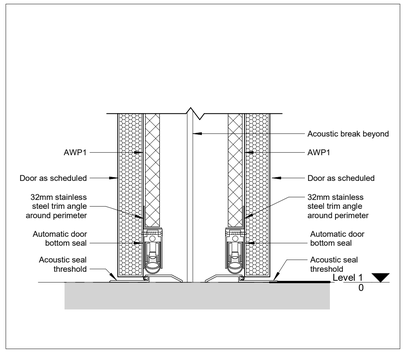
15 **Plan Detail - S1 Screen - Typical Butt Joint**
1 : 5



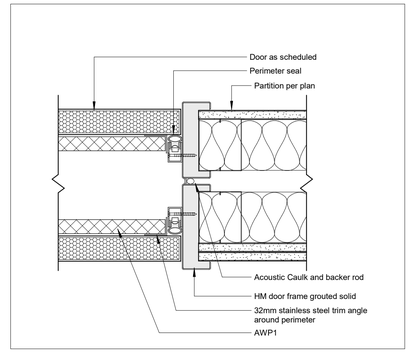
9 **Typical Door Jamb Detail - Type E Acoustic Sliding Glass Doors**
1 : 5



10 **Typical Acoustic Sidelight Jamb Detail**
1 : 5



13 **Typical Door Sill Detail - Type D Back-to-Back Door**
1 : 5



14 **Typical Door Jamb Detail - Type D Back-to-Back Door**
1 : 5

GOW HASTINGS ARCHITECTS

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No.	ISSUED/REVISED	DATE
7	Issued for Tender	Mar 23, 2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Door Schedule, Door and Window Details

Scale: As indicated

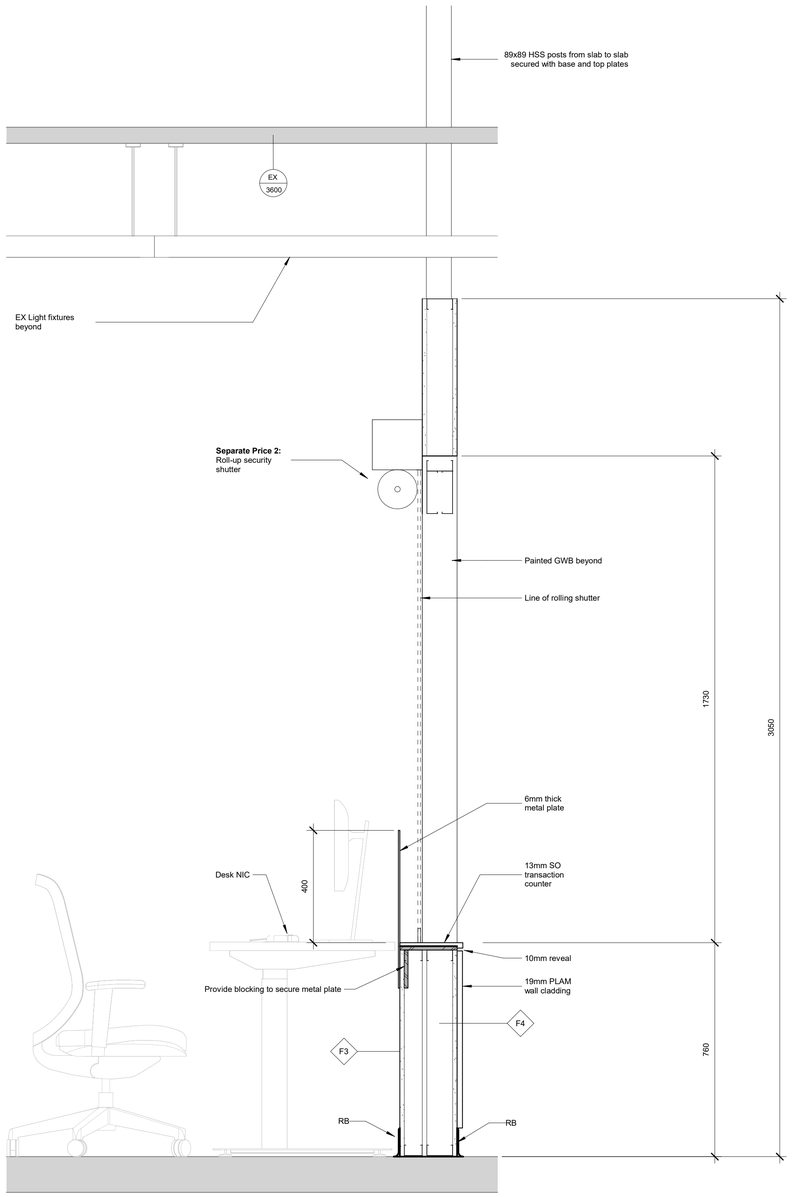
Project Number: 25-111

Drawn By: AC

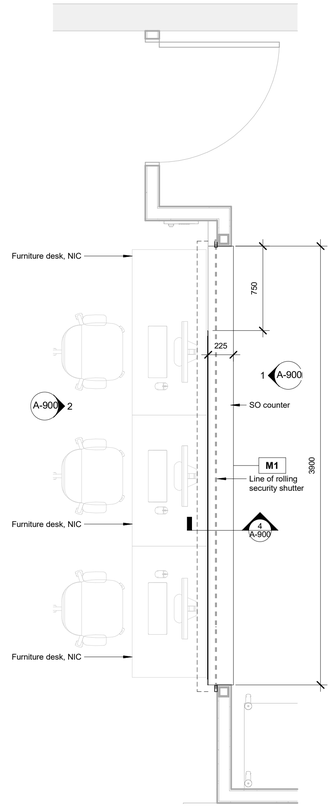
Checked By: SW

A-700

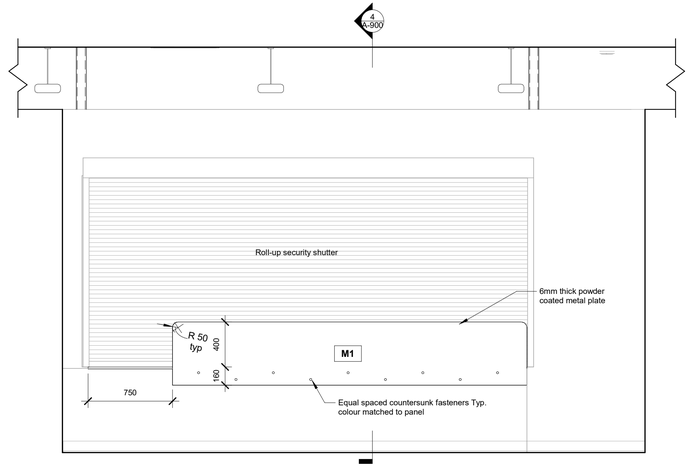
Millwork Schedule		
Mark	Room: Name	Description
M1		Service Counter



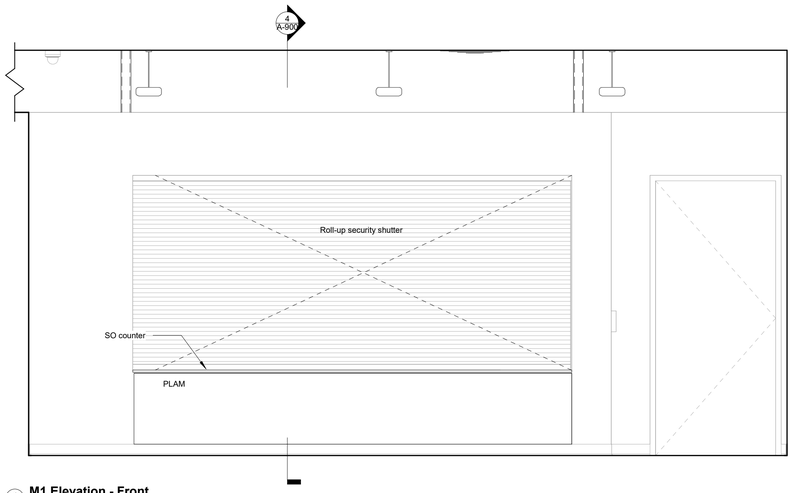
4 **M1 - Section**
1 : 10



3 **M1 Plan**
1 : 25



2 **M1 Elevation - Back**
1 : 25



1 **M1 Elevation - Front**
1 : 25

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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

Millwork Drawings & Schedule

Project North

Scale: As indicated

Project Number: 25-111	
Drawn By: AC	
Checked By: SW	

A-900

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	L.L.H.	LONG LEG HORIZONTAL
ALT.	ALTERNATE	L.L.V.	LONG LEG VERTICAL
ALUM.	ALUMINUM	LP.	LOW POINT
ANCHS.	ANCHORS	LG.	LONG
APPROX.	APPROXIMATELY	L.S.H.	LONG SIDE HORIZONTAL
ARCH.	ARCHITECTURAL	L.S.V.	LONG SIDE VERTICA
B	BOTTOM	L.L.B.B.	LONG LEG BACK TO BACK
B/F	BOTTOM FACE	M.C.	MOMENT CONNECTION
B/FTG.	BOTTOM OF FOOTING	MAX.	MAXIMUM
B.A.	BASE PLATE	MECH.	MECHANICAL
BLK.	BLOCK	METL.	METAL
BM.	BEAM	MIN.	MINIMUM
BTM.	BOTTOM	MISC.	MISCELLANEOUS
BRG.	BEARING	m	METER
BT.PL.	BENT PLATE	mm	MILLIMETRE
B.L.L.	BOTTOM LOWER LEVEL	MPa	MEGAPASCAL
B.U.L.	BOTTOM UPPER LEVEL	N.I.C.	NOT IN CONTRACT
C/W	COMPLETE WITH	N.T.S.	NOT TO SCALE
C/C	CENTRE TO CENTRE	No.	NUMBER
C.J.	CONTROL JOINT	NS/FS	NEAR SIDE/FAR SIDE
℄	CENTRE LINE	O.A.E.	OR APPROVED EQUAL
CLG.	CEILING	O.C.	ON CENTRE
COL.	COLUMN	O.C.B.	ON CENTRE BOTTOM
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONN.	CONNECTION	O.H.	OVER HEAD
CONST.	CONSTRUCTION	OWSJ	OPEN WEB STEEL JOIST
CONT.	CONTINUOUS	OPG.	OPENING
DEMO.	DEMOLITION	O.S.F.V.	OUTSIDE FACE VERTICAL
DET'L.	DETAIL	PARTN.	PARTITION
DIA.	DIAMETER	PL.	PLATE
DIM.	DIMENSION	R.C.	REINFORCED CONCRETE
DO	DIDO	R.D.	ROOF DRAIN
DP.	DEEP	R.O.	ROUGH OPENING
DWG.	DRAWING	REF.	REFERENCE
DWL.	DOWEL	REINF.	REINFORCED
E.F.	EACH FACE	REQ'D	REQUIRED
E.F.H.	EACH FACE HORIZ.	SECT.	SECTION
E.J.	EXPANSION JOINT	S.D.F.	STEP DOWN FOOTING
ELEC.	ELECTRICAL	S.L.H.	SHORT LEG HORIZONTAL
E.S.	EACH SIDE	S.L.V.	SORT LEG VERTICAL
E.W.	EACH WAY	S.L.B.B.	SHORT LEG BACK TO BACK
EA.	EACH.	S.O.G	SLAB ON GRADE
ELEV.	ELEVATION	S.P.D.D.	STANDARD PROCTOR DRY DENSITY
EQ.	EQUAL	S.S.	STAINLESS STEEL
EXIST.	EXISTING	STL.	STEEL
F.F.	FACE TO FACE	STIFF	STIFFENER
FIN.	FINISHED	STRUCT.	STRUCTURAL
FL.	FLOOR	T	TOP
FDN.	FOUNDATION	T/C	TOP OF CONCRETE
FTG.	FOOTING	T/F	TOP OF FOOTING
GA.	GAUGE	T/O	TOP OF
GALV.	GALVANIZED	T/S	TOP OF STEEL
GRD.	GRADE	T/WALL	TOP OF WALL
HORIZ.	HORIZONTAL	T.L.L.	TOP LOWER LEVEL
H.D.	HEAVY DUTY	TYP.	TYPICAL
H.D.G.	HOT DIPPED GALVANIZED	U/G	UNDERGROUND
H.E.F.	HORIZONTAL EACH FACE	U.N.O.	UNLESS NOTED OTHERWISE
H.P.	HIGH POINT	U/S	UNDERSIDE
HSS	HOLLOW STRUCT. SECTION	VERT.	VERTICAL
HT.	HEIGHT	V.E.F	VERTICAL EACH FACE
I.D.	INSIDE DIAMETER	V.I.F.	VERTICAL INSIDE FACE
INV. ELEV.	INVERT ELEVATION	V.O.F.	VERTICAL OUTSIDE FACE
I.S..V.	INSIDE FACE VERTICAL	V.S.C.	VERTICAL SLOTTED CONNECTION
kN.	KILONEWTON	W.P.	WORKING POINT
kN/m	KILONEWTON METERS	W.W.M.	WELDED WIRE MESH
kPa	KILOPASCAL	@	SPACED AT
∟	ANGLE		

TESTING AND INSPECTION

1. THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

ITEMS	REQ'D	COMMENTS
REINF. STEEL PLACEMENT	YES	INSPECT FINAL...
WELDED CONNECTIONS	YES	INSPECT ALL FIELD WELDS
MORTAR CUBES	NO	
GROUT CUBES	NO	

GENERAL NOTES

1. THE GENERAL NOTES MUST BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS AND SPECIFICATIONS OF ENGINEERING AND ARCHITECTURAL DISPLINES WHICH FORM PART OF THIS CONTRACT. THIS INCLUDES DRAWING SPECIFICATIONS AND SKETCHES. SHOULD THERE BE CONTRADICTORY INFORMATION BETWEEN DRAWINGS, SKETCHES AND SPECIFICATIONS, THE ONE WHICH IS MOST STRINGENT TAKES PRECEDENCE.

2. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS, TRENCHES, PITS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON STRUCTURAL DRAWINGS.

3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS TO SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THE WORK.

4. ALL CONNECTIONS CONNECTED TO EXISTING STRUCTURE ARE TO BE SITE VERIFIED.

5. REVIEW OF SHOP DRAWINGS BY STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN.

6. REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FORSEEN THAT THE WORK IS COMPLETE, ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

7. TYPICAL DETAILS SHALL BE USED WHERE SPECIFIC DETAILS ARE NOT SHOWN ON THE DRAWINGS.

8. ALL WORK REQUIRED, INCLUDING ANY DEMOLITION, SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT DAMAGE THE EXISTING SITE OR STRUCTURE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

9. ALL DESIGN, DETAILING, CONSTRUCTION, EXCAVATION AND SHORING, MUST CONFORM TO THE PRESENT ONTARIO BUILDING CODE, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS LATEST EDITION. ALL ASSOCIATED COST WITH THE DESIGN, SUPPLY AND INSTALLATION OF TEMPORARY SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAMPED, ENGINEERED SHORING DRAWINGS.

10. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUBCONTRACTORS.

11. THE GENERAL CONTRACTOR MUST REVIEW ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF ALL WORK AND MUST REPORT ALL DISCREPANCIES TO THE ENGINEER/ARCHITECT.

12. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.

13. PROVIDE STAMPED STRUCTURAL SHOP DRAWINGS AS NOTED IN THE FOLLOWING TABLE.

ITEMS	REQ'D SUBMITTAL	ENGINEERS STAMP REQ'D	NOTES
STRUCTURAL STEEL SHOP DRAWINGS	YES	YES	

14. PROJECTS WHICH INCLUDE ANY DEMOLITION AND OR RENOVATION WORK, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONSTRUCTION. SHOULD A DISCREPANCY ON EITHER BE FOUND, REPORT FINDINGS TO ENGINEER/ARCHITECT.

15. ALL DETAILS SHOWN ARE SPECIFIC TO THE PROJECT. WHERE A LOCATION IS NOT SPECIFIED FOR A DETAIL, DETAILS IN THE DRAWINGS INCLUDING TYPICAL DETAILS WHICH CLOSELY RESEMBLES THE WORK, WILL APPLY.

16. ALL CODES AND REGULATIONS QUOTED ARE TO BE THE LATEST EDITION.

CONCRETE AND REINFORCING

1. CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, TESTING AND STANDARD PRACTICES FOR CONCRETE SHALL BE IN ACCORDANCE WITH CSA STANDARD A23.1/A23.2 (LATEST EDITION).

2. CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH THE DESIGN OF CONCRETE STRUCTURES CSA STANDARD A23.3 (LATEST EDITION).

3. REINFORCEMENT SHALL CONFORM TO CSA G30.3,G30.5 AND G30.18 (LATEST EDITION)
YIELD STRENGTH FOR CONCRETE AND MASONRY REINFORCEMENT, fy=400MPa
YIELD STRENGTH FOR WELDED WIRE FABRIC fy=360MPa

4. THE GENERAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF MECHANICAL AND ELECTRICAL OPENINGS AND SLEEVES. THEY MUST FOLLOW THE GUIDE LINES BELOW:

a. WHERE A CORE DRILL OR AN OPENING IS REQUIRED IN HARDENED CONCRETE THE GENERAL CONTRACTOR MUST SEEK THE APPROVAL OF THE STRUCTURAL ENGINEER.
b. ELECTRICAL CONDUITS SHALL NOT PASS THROUGH COLUMNS AND ARE NOT TO RUN HORIZONTALLY IN WALLS.

UNIT MASONRY

1. MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO C.S.A. S304.1: MASONRY DESIGN FOR BUILDINGS
C.S.A. A371: MASONRY CONSTRUCTION FOR BUILDINGS
C.S.A. A165: CSA STANDARDS FOR CONCRETE MASONRY UNITS
C.S.A. A179: MORTAR AND GROUT FOR UNIT MASONRY
(LATEST EDITION)

2. ALL CONCRETE BLOCK SHALL HAVE A NET COMPRESSIVE STRENGTH OF 15 MPa (2200 PSI) UNLESS NOTED OTHERWISE.

3. MASONRY WALLS SHALL HAVE TYPE S MORTAR.

4. GROUT SHALL BE IN ACCORDANCE WITH THE ABOVE NOTED STANDARDS.

5. PROVIDE THREE COURSES OF FULLY GROUTED MASONRY UNDER BEARING PLATES FOR STEEL BEAMS, UNLESS OTHERWISE NOTED.

6. PROVIDE LATERAL RESTRAINT AT THE TOP OF ALL NON-LOAD BEARING PARTITIONS. REFER TO TYPICAL DETAILS.

7. PROVIDE CONTROL JOINTS EVERY 7m AND AT ALL DISCONTINUITIES AND OPENINGS AND AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

8. PROVIDE AND INSTALL HORIZONTAL REINFORCING IN ALL MASONRY WALLS, UNLESS INDICATED OTHERWISE ON DRAWINGS, PROVIDE 4.8mm GALVANIZED LADDER TYPE HORIZONTAL REINFORCING AT EVERY SECOND MORTAR JOINT IN MASONRY WALLS.

9. PROVIDE AND CONSTRUCT A SINGLE COURSE BOND BEAM AT THE TOP OF ALL NON BEARING WALLS. REINFORCE BOND BEAM WITH 2-10M CONTINUOUS. AT LOAD BEARING WALLS BOND BEAMS ARE 400mm DEEP WITH 2-15M CONTINUOUS.

10. PROVIDE 1-15M EVERY FOURTH CELL, VERTICAL REINFORCEMENT, IN ALL LOAD BEARING AND NON-LOAD BEARING WALLS AND SHEAR WALLS UNLESS GREATER REINFORCEMENT IS INDICATED ON THE DRAWINGS.

11. PROVIDE ADDITIONAL REINFORCING TO MATCH WALL REINFORCING AT ALL CORNERS, OPENINGS AND BENEATH ALL BEARING PLATES AND LINTELS.

12. PROVIDE AND INSTALL LINTELS OVER ALL OPENINGS IN ACCORDANCE WITH THE TYPICAL LINTEL SCHEDULE OR AS SHOWN ON THE DRAWING.

STEEL DECK

1. STEEL DECK SHALL CONFORM TO S136 GRADE 230 WITH DEPTHS AND THICKNESSES AS INDICATED ON DRAWINGS.

2. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS WHERE POSSIBLE.

3. STEEL DECK FOR COMPOSITE SLABS SHALL BE COMPOSITE TYPE DECK.

4. UNLESS INDICATED OTHERWISE ON THE DRAWINGS FASTEN DECK TO SUPPORTS AS FOLLOWS:
a) 20mm DIA WELDS EVERY 2ND FLUTE AND EVERY 600mm (24') ALONG SIDES, OR.
b) HILTI ENP2K OR ENKK NAILS EVERY FLUTE AND EVERY 600mm (24") ALONG THE SIDES.
c) WHEN USING SHEAR STUDS WELD EVERY THIRD FLUTE.

5. UNLESS INDICATED OTHERWISE ON THE DRAWINGS BUTTON PUNCH SIDE LAPS EVERY 600mm (24').

6. ALL EDGES OF DECK SHALL BE SUPPORTED WITH PERIMETER ANGLES WITH VERTICAL AND HORIZONTAL LEGS EQUAL TO THE DECK DEPTH, UNLESS OTHERWISE NOTED.

7. REINFORCE OPENINGS ACCORDING TO THE FOLLOWING TABLE:

OPENING SIZE (MAX. DIMENSION)	REINFORCING
LESS THAN 150mm (6") REQUIRED	NO REINFORCING
150-300 mm (6"-12") WELDED TO U/S DECK (PERPENDICULAR TO SPAN) EXTENDING 450mm BEYOND OPENING ON EACH SIDE	L51x51x6 (L2x2x1/4)
300-450mm (12"-18") WELDED TO U/S DECK ALL AROUND EXTENDING 450mm (18") BEYOND OPENING (PERPENDICULAR TO SPAN)	L75x75x6 (L3x3x1/4) OPENING AND ON EACH SIDE

OPENINGS LARGER THAN 450mm (18") OR OPENINGS CARRYING LOADS GREATER THAN 1.0 kN SHALL BE REINFORCED ACCORDING TO THE TYPICAL ROOF TOP SUPPORT DETAIL

8. DECK SHALL OVERLAP A MINIMUM OF 50mm (2') AT ALL END JOISTS AND HAVE A MINIMUM BEARING LENGTH OF 50mm (2") ON ALL STRUCTURAL STEEL.

9. DECK WELDS SHALL BE TOUCHED UP WITH APPROVED PAINT BY THE DECK ERECTOR.

10. METAL DECK SHALL BE GALVANIZED STRUCTURAL STEEL SHEET FABRICATED AND ERECTED IN ACCORDANCE WITH CSSBI 10M-96 AND CAN3-S136.

11. PROTECT ROOF AND FLOOR DECK FROM DAMAGE DURING SHIPPING STORAGE AND ERECTION. CONTRACTOR SHALL REPLACE ANY PUNCTURED, DENTED OR WELD PERFORATED DECK.

12. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.

STRUCTURAL STEEL

1. STRUCTURAL STEEL DESIGN,FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF:
C.S.A. S16.1: LIMIT STATES DESIGN OF STEEL STRUCTURES,
C.S.A. G40-20: GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEELS
C.S.A. G40-21: STRUCTURAL QUALITY STEELS
C.S.A. W59: WELDED STEEL CONSTRUCTION
C.S.A. S136: COLD FORMED STEEL STRUCTURAL MEMBERS

2. STRUCTURAL STEEL SHALL CONFORM TO G40.21 GRADE 350W FOR W SHAPES AND GRADE 300W FOR PLATES, ANGLES AND CHANNELS. SQUARE/RECTANGULAR HSS (HOLLOW STRUCT. SECTIONS) SHALL BE GRADE 350W, CLASS C. ROUND HSS SHALL BE ASTM A500 GRADE C.

3. UNLESS NOTED ON DRAWINGS, ALL BOLTS SHALL CONFORM TO A325 HIGH STRENGTH BOLTS IN BEARING M20 DIAMETER MINIMUM.

4. THE DESIGN OF BEAM SHEAR CONNECTIONS SHALL BE THE GREATER OF 50% OF THE BEAM SHEAR OR THE BEAM REACTION CALCULATED USING THE DESIGN LOADS SHOWN ON THE DRAWINGS, OR THE DESIGN SHEAR SHOWN. USE A MINIMUM OF TWO BOLTS.

5. WELDED CONNECTIONS SHALL BE UNDERTAKEN ONLY BY CERTIFIED WELDERS APPROVED BY C.W.B. TO THE REQUIREMENTS OF W47.1 DIVISION 1 AND 2. WELDING SHOULD BE DONE IN ACCORDANCE WITH W59. USE WELDING ELECTRODES WITH LOW HYDROGEN E480XX (E70XX) OR APPROVED EQUAL.

6. SHOULD THE FABRICATOR ELECT TO USE AN ALTERNATE ELECTRODE, THE ALTERNATE ELECTRODE SHALL MEET THE INTENT OF THE CONNECTION DESIGN AND MUST BE CERTIFIED BY A LICENSED WELDING ENGINEER IN THE PROVINCE OF ONTARIO.THE COST OF THE CERTIFICATION MUST BE BOURN BY THE CONTRACTOR.

7. WHEN WELDING TO EXISTING STEEL OR FIELD WELDING NEW STEEL, THE LOCATION OF THE WELD MUST BE FREE OF PAINT AND PRIMER.

8. CONNECTIONS FOR BRACING MEMBERS MUST BE DESIGNED FOR THE FULL TENSILE STRENGTH OF THE MEMBER, UNLESS LOADS ARE OTHERWISE INDICATED ON THE DRAWINGS.

9. ALL EXTERIOR EXPOSED STEEL INCLUDING MISCELLANEOUS EMBEDDED PLATES SUPPORTING SHELF ANGLES AND SHELF ANGLES SHALL BE HOT DIPPED GALVANIZED.

DESIGN LOADS

GRAVITY LOADS

1 DEAD LOADS

LOW ROOFS 1.05kPa

2. SNOW LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE O.B.C. USING THE FOLLOWING CRITERIA:
LOCATION: SCARBOROUGH, ON
Ss = 1.2kPa Sr = 0.4kPa Is = 1.15 (HIGH IMPORTANCE)

REFER TO PLANS FOR SNOW PILE UP CONDITIONS.

GOW HASTINGS ARCHITECTS
275 SPADINA ROAD
TORONTO ONTARIO M5R 2V3
416-920-0031
GOWHASTINGS.COM

MANTECON PARTNERS
STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS

15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905)648-0373 www.mantecon partners.com

No.	ISSUED/REVISED	DATE
1	ISSUED FOR TENDER	2026-03-20

Centennial Story Arts Centre Relocation

941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

GENERAL NOTES

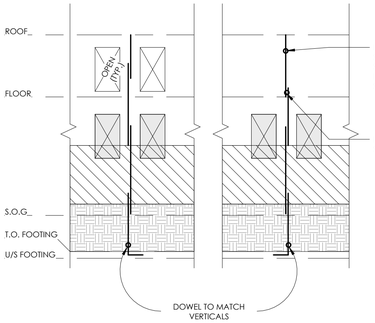
Project North

Scale: 1 : 1

Project Number: 25-120	
Drawn By: M.E.	
Checked By: M.M.	

S-000

TYPICAL ELEVATION REINFORCED MASONRY WALLS AND PIERS



NOTES

1. PROVIDE MINIMUM CLASS "B" TENSION LAP SPLICES FOR VERTICAL REINFORCING:
   - 10M - 500mm (20")
   - 15M - 700mm (2'-4")
   - 20M - 850mm (2'-9")

   NOTE: WHERE MORE THAN 1 BAR PER CELL INCREASE LAP LENGTH BY 33%
2. LAP ALL HORIZONTAL LADDER TYPE REINFORCING 500mm.
   - ANY CROSSWIRES WITHIN LAP LENGTH SHALL BE REMOVED.
   - LAPS SHALL BE STAGGERED A MINIMUM OF 750mm FROM COURSE TO COURSE

WALL PLATE SCHEDULE
(LAST DIMENSION PARALLEL TO WEB)

MARK	MATERIAL	REMARKS
WP1	250x20x250	(2)13Ø A.BOLTS x 150 LG.

LINTEL SCHEDULE
REFER TO LINTEL NOTES ON TYPICAL DETAIL DRAWINGS
SEE ALSO SPECIFICATION

MARK	MATERIAL	TYPE	REMARKS
L1	(2) - L102x102x7.9		
L2	W410x39 + 225x6.4 PL.BOTTOM		WP1 E.E. **

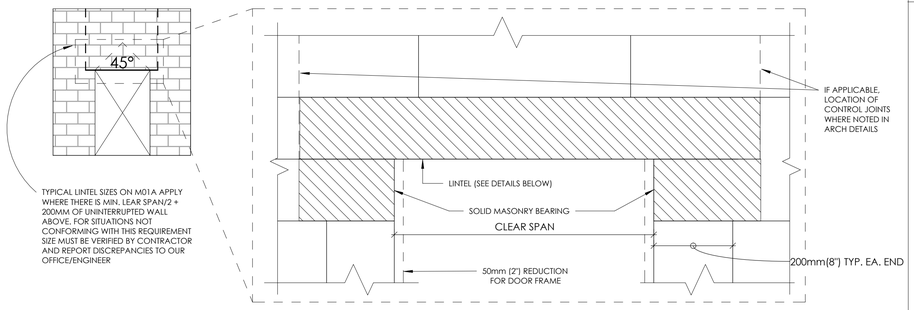
MASONRY CORE FILL SCHEDULE

TYPE	SIZE	RENF	REMARKS
C1	1 x 600	3-15 VERT. CONT.	

NOTES

1. PROVIDE CORE FILLS AS NOTED ON PLAN AND PROVIDE REINFORCEMENT AS SHOWN IN SCHEDULE.
2. CORE FILLS EXTEND FULL HEIGHT OF WALL, FLOOR TO FLOOR UNLESS NOTED.
3. INSTALL ALL REINFORCEMENT FULL HEIGHT BETWEEN FLOORS AND GROUT CORE SOLID FULL HEIGHT BETWEEN FLOORS UNLESS NOTED.
4. WHERE MASONRY WALLS START ON TOP OF STEEL BEAMS, PROVIDE WELDABLE REINFORCING DOWELS TO MATCH REINFORCING NOTED IN THIS SCHEDULE.
5. AT PIERS AND SILLS PROVIDE 15M DOWELS TO MATCH REINFORCING NOTED IN THIS SCHEDULE DRILLED AND EPOXIED WITH HILTI HIT-HY200R INTO EXISTING SOG TO EMBEDMENT DEPTH 75mm MIN UNLESS NOTED OTHERWISE.
6. REFER TO ELEVATION REINFORCED MASONRY WALLS AND PIERS FOR LAP LENGTHS FOR VERTICAL BARS AND DOWELS.
7. 190mm MASONRY WALL REINFORCING - 15M@800 o/c
   240mm MASONRY WALL REINFORCING - 15M@600 o/c
8. REINFORCE ALL MASONRY SILLS AS PER THE REINFORCING INDICATED IN THIS SCHEDULE. GROUT TOP 2 COURSES OF ALL SILLS SOLID.
9. TOP OF MASONRY TO STOP 25mm FROM UNDERSIDE OF CONCRETE SLAB. PROVIDE COMPRESSIBLE FILLER.
10. PROVIDE LATERAL BRACING CLIPS AT UNDERSIDE OF CONCRETE SLAB. CLIPS TO BE L100x76x6 LLH 200 LG. STAGGERED @ 2400 o/c MAX WITH 1-15mm DIA (5/8") SELF DRILL INSERT IN EACH CLIP.
11. AT EXISTING MASONRY WALL, NEW PIERS ARE TO BE 'TOOTHED IN' WITH EXISTING.

NON-LOAD BEARING BLOCK WALL LINTEL DETAILS



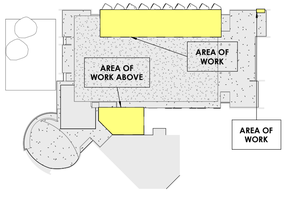
LINTEL DETAILS

STRUCTURAL STEEL LINTEL DETAILS

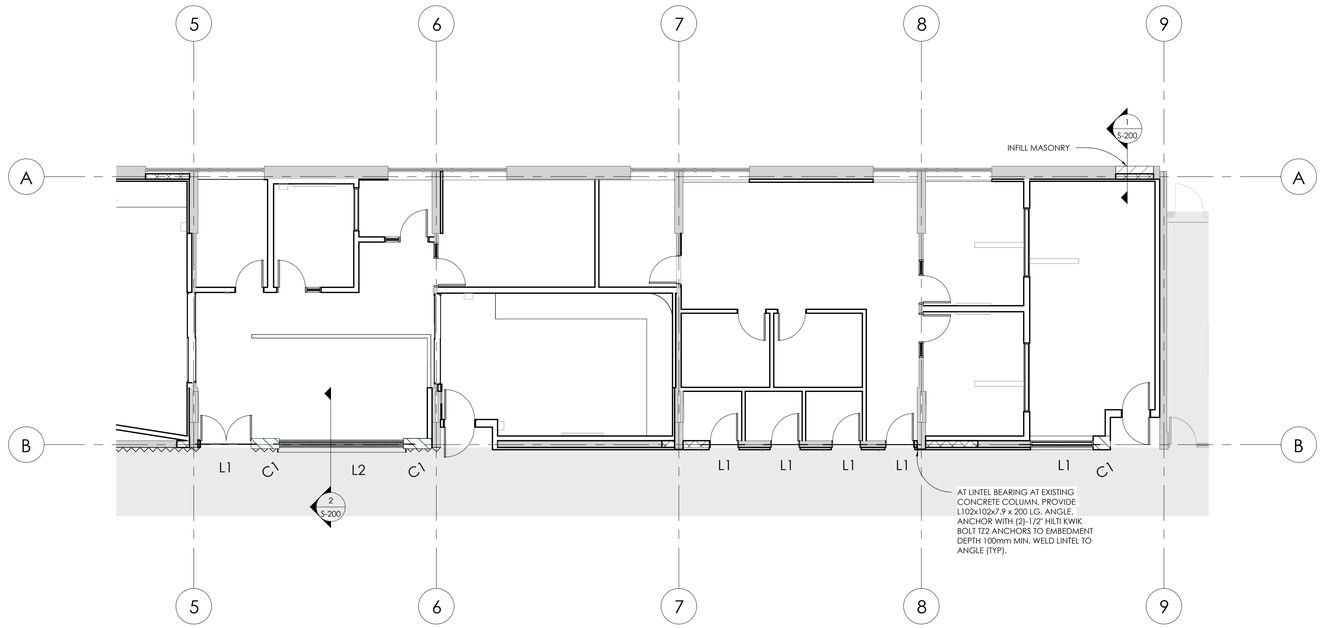
LINTEL NOTES

UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS:

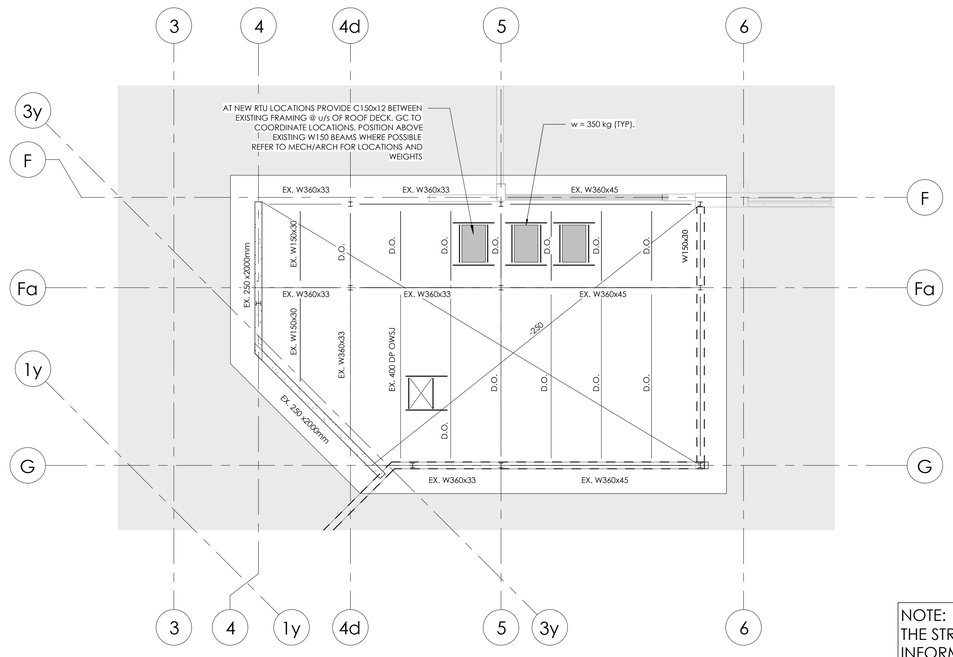
1. FOR OPENINGS UP TO 1200 mm (4'-0") CLEAR;
   1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-10M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
2. FOR OPENINGS FROM 1200mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR;
   2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5'x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
   OR
   2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
3. ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE.
4. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 450mm (18") CENTRES.
5. MASONRY LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS NOT ACCEPTABLE AND WILL BE REJECTED.
6. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB-CONTRACTOR.
7. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.
8. WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY LINTEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT. UNLESS OTHERWISE DIRECTED, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.
9. REFER ALSO TO TYPICAL DETAILS.



3 S-100 KEY PLAN 1 : 1000



1 S-100 LEVEL 1 - BROADCASTING WING 1 : 100



2 S-100 LOW ROOF PARTIAL PLAN 1 : 100

NOTE: EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED AND ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE. ANY VARIATIONS ARE TO BE REPORTED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING.

GOW HASTINGS ARCHITECTS
275 SPADINA ROAD
TORONTO ONTARIO M5R 2V3
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15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905)648-0373 www.manteconpartners.com

No.	ISSUED/REVISED	DATE
1	ISSUED FOR TENDER	2026-03-20

Centennial Story Arts Centre Relocation

941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

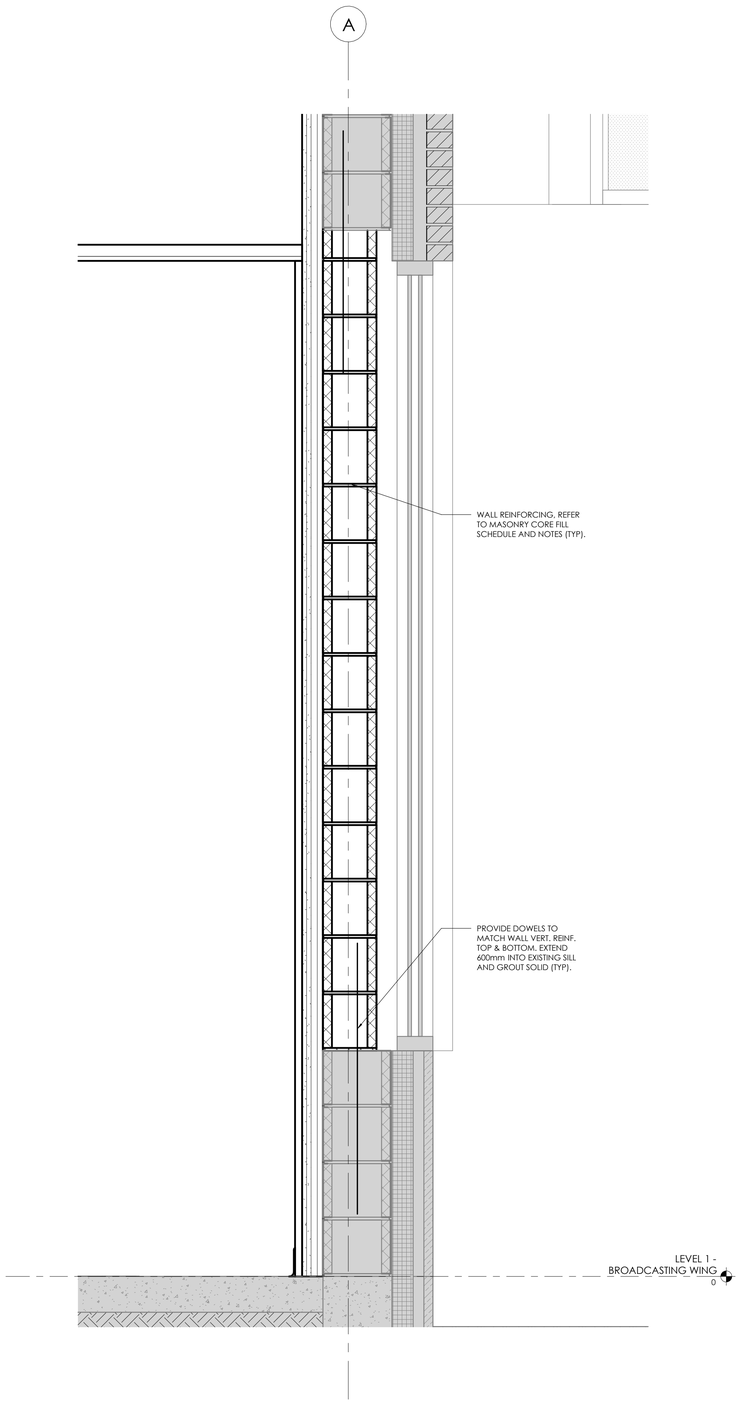
FRAMING PLAN - LEVEL 01 FLOOR PLAN & LOW ROOF

Project North

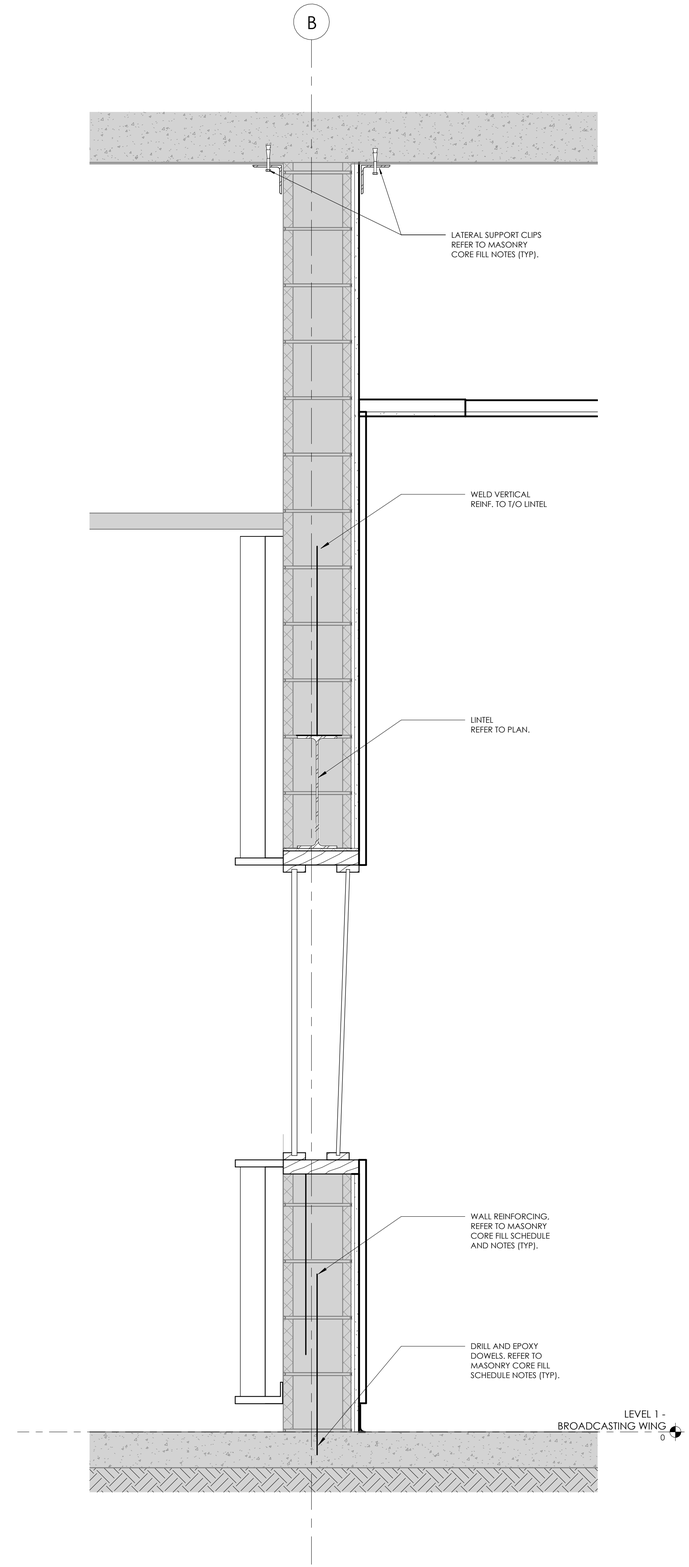
Scale: As indicated

Project Number: 25-120	
Drawn By: S.A.	
Checked By: S.M.	

S-100



1 S-200 1 : 10 CMU Infill at Existing CW



2 S-200 1 : 10 Wall Section - Window to TV Production Control

GOW HASTINGS ARCHITECTS

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No.	ISSUED/REVISED	DATE
1	ISSUED FOR TENDER	2026-03-20

Centennial Story Arts Centre Relocation

941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

WALL SECTION

Project North

Scale: 1 : 10

Project Number: 25-120	
Drawn By: S.A.	
Checked By: S.M.	

S-200

List - Mechanical Sheets Phase 2

DWG No.	DRAWING NAME	REVISION	DESCRIPTION	DATE
M-000	LEAD SHEET (DRAWING LIST, LEGEND & NOTES)	2	Issued for 90% CD SET	2026-03-06
M-001	MECHANICAL KEY PLAN	2	Issued for 90% CD SET	2026-03-06
M-100	LEVEL 2 - PLUMBING PLAN	2	Issued for 90% CD SET	2026-03-06
M-101	LEVEL 1 - PROPOSED CONDENSATE	2	Issued for 90% CD SET	2026-03-06
M-200	LEVEL 2 - FIRE PROTECTION PLAN	2	Issued for 90% CD SET	2026-03-06
M-201	LEVEL 1 - FIRE PROTECTION PLAN	2	Issued for 90% CD SET	2026-03-06
M-300	LEVEL 1 HVAC DEMOLITION PLAN	1	Issued for 50% CD SET	2026-02-18
M-301	LEVEL 1 HVAC PROPOSED PLAN	2	Issued for 90% CD SET	2026-03-06
M-302	LEVEL 2 HVAC DEMOLITION PLAN	1	Issued for 50% CD SET	2026-02-18
M-303	LEVEL 2 HVAC PROPOSED PLAN	2	Issued for 90% CD SET	2026-03-06
M-400	MECHANICAL DETAILS AND SECTIONS	2	Issued for 90% CD SET	2026-03-06
M-401	MECHANICAL DETAILS AND SECTIONS	2	Issued for 90% CD SET	2026-03-06
M-403	MECHANICAL DETAILS AND SECTIONS	2	Issued for 90% CD SET	2026-03-06
M-404	CONDENSING UNIT & VRF PIPING SCHEMATICS	2	Issued for 90% CD SET	2026-03-06
M-500	MECHANICAL EQUIPMENT CONTROLS FLOOR PLAN	2	Issued for 90% CD SET	2026-03-06
M-501	MECHANICAL EQUIPMENT CONTROLS	2	Issued for 90% CD SET	2026-03-06
M-600	MECHANICAL EQUIPMENT SCHEDULE	2	Issued for 90% CD SET	2026-03-06

LEGEND - HVAC

THIS LEGEND OF SYMBOLS REPRESENTS
MANTECON PARTNERS INC.,
STANDARD/GENERIC LEGEND.
ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

REFER	DESCRIPTION
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	NEGATIVE PRESSURE (RETURN) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	NEGATIVE PRESSURE (RETURN) DUCT DOWN
	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	FLEXIBLE DUCTWORK APPROVAL REQ. FOR USE (5'-0" MAX)
	CROSSHATCHING ON DUCTWORK INDICATES 1"(25mm) DUCT
	DUCTWORK WITH INSULATION
	DUCT IN FIREPROOF ENCLOSURE
	SUPPLY AIR DIFFUSER (SQUARE)
	LINEAR OR SLOT DIFFUSER WITH PLENUM LINING AS SPECIFIED.
	SUPPLY AIR DIFFUSER (ROUND)
	SIDEWALL GRILLE
	RETURN/EXHAUST GRILLE
	FULL RADIUS DUCT CONNECTION
	TAP-IN DUCT CONNECTION
	ROUND DUCT CONNECTION
	TURNING VANES
FD	FIRE DAMPER
EXFD	EXISTING FIRE DAMPER
RFD	REMOVE FIRE DAMPER
FD/SD	FIRE DAMPER/SMOKE DAMPER
MD	MOTORIZED DAMPER
EXMD	EXISTING MOTORIZED DAMPER
BD	BALANCING DAMPER
OED	OPEN ENDED DUCT
T	THERMOSTAT
UC	U/C UNDERCUT
CAP	CAP
	SILENCER

LEGEND - PLUMBING

THIS LEGEND OF SYMBOLS REPRESENTS
MANTECON PARTNERS INC.,
STANDARD/GENERIC LEGEND.
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REFER	DESCRIPTION
DCW	DOMESTIC COLD WATER PIPING
DHW	DOMESTIC HOT WATER PIPING
DTW	DOMESTIC TEMPERED WATER
HHWS	HYDRONIC HOT WATER SUPPLY PIPING
HHWR	HYDRONIC HOT WATER RETURN PIPING
VENT	VENT PIPING
SAN	SANITARY PIPING ABOVE FLOOR
SAN	SANITARY PIPING BELOW GRADE OR FLOOR
S	STORM PIPING ABOVE FLOOR
STM	STORM PIPING BELOW GRADE OR FLOOR
T	TEMPERED WATER PIPING
ROS	REVERSE OSMOSIS SUPPLY PIPING
A	AIR PIPING
V	VACUUM PIPING
G	GAS PIPING
CA	COMPRESSED AIR PIPING
	PIPING TO BE REMOVED
	CAPPED PIPE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
AD	AREA DRAIN
FS	FLOOR SINK DRAIN
RD	ROOF DRAIN
CD	CANOPY DRAIN
BD	BALCONY DRAIN
	ELEVATOR PIT DRAIN C/W BACK WATER VALVE
CO	CLEANOUT IN FLOOR
CO	CLEANOUT IN LINE OR STACK
M	WATER METER
M	GAS METER
	ISOLATION/GATE VALVE
	THROTTLING VALVE
	BACKFLOW PREVENTER
	CHECK VALVE c/w BALL DRIP VALVE
	STRAINER
	GAS VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	DUAL CHECK W/ ATMOSPHERIC PORT BACKFLOW PREVENTER
	BACKFLOW PREVENTER
	PRESSURE REDUCING VALVE (WATER)
	VENT THROUGH ROOF
	3-WAY VALVE
	TEMPERATURE & PRESSURE RELIEF VALVE

TAG SYMBOLS

DUCT

FOT/FOB/SU/SD/=	DUCT SET - SU/SD FROM TOP
System Abb. 300 x 400mm	DUCT SIZE - SIZE, ABBREVIATION
300 ø	FLEX DUCT SIZE - DIAMETER

MECHANICAL EQUIPMENT

1i	MECHANICAL EQUIPMENT - MARK
1@ 1i / 100 L/s / Size	DIFFUSER - FLOW & SIZE
Type Mark	PLUMBING FIXTURE - TYPE MARK
S1	SPRINKLER SYSTEM - SYSTEM CLASSIFICATION

PLUMBING

Mark	PLUMBING EQUIPMENT - MARK
Type Mark	PLUMBING FIXTURE - TYPE MARK

PIPING

System Abb.- Size - Slope	PIPING SYSTEM - ABBREVIATION, SIZE & SLOPE
Size	PIPE FITTING - SIZE
Diameter ø	PIPING (FLEX) - SIZE

SPACES & ZONES

Space Name 101 / 150 m2	SPACE TAG - NAME, NUMBER, AREA, VOLUME
Zone Name	SPACE TAG - NAME, NUMBER, AREA, VOLUME

VALVE SYMBOLS

	GATE VALVE
	GLOBE VALVE
	GATE VALVE WITH 3/4 " HOSE ADAPTER
	BACKFLOW PREVENTER
	ANGLE GLOBE VALVE (Schematic Only)
	BUTTERFLY VALVE
	BALL VALVE
	CIRCUIT SETTER
	STRAIGHT-THRU MODULATING CONTROL VALVE
	STRAIGHT-THRU TWO POSITION CONTROL VALVE
	THERMOSTATIC MIXING VALVE
	AUTOMATIC FLOW CONTROL VALVE (Schematic)
	SAFETY OR PRESSURE RELIEF VALVE (Schematic)
	PRESSURE REDUCING VALVE
	MANUAL AIR VENT (Schematic)
	TEST PLUG (PRESSURE/TEMPERATURE)(Schematic)
	SAFETY VALVE (Schematic)
	RELIEF VALVE

LEGEND - FIRE SUPRESSION

THIS LEGEND OF SYMBOLS REPRESENTS
MANTECON PARTNERS INC.,
STANDARD/GENERIC LEGEND
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REFER	DESCRIPTION
E	EXISTING PIPING
F	STANDPIPE PIPING (WET)
SP	SPRINKLER PIPING (WET)
DF	STANDPIPE PIPING (DRY)
DSP	SPRINKLER PIPING (DRY)
F-FDC	STANDPIPE FIRE DEPARTMENT CONNECTION PIPING
SP-FDC	SPRINKLER FIRE DEPARTMENT CONNECTION PIPING
FSV	ELECTRICALLY SUPERVISED VALVE
D/T	DRAIN/TEST VALVE
FS	FLOW SWITCH
FH	FIRE HYDRANT
	FIRE DEPARTMENT PUMPER CONNECTION
FEX	FIRE EXTINGUISHER - SURFACE MOUNTED
FEC	FIRE EXTINGUISHER CABINET
FSEC	FIRE EXTINGUISHER CABINET - SECURE
	FIRE HOSE CABINET - SURFACE
	FIRE HOSE CABINET - RECESSED
	SPRINKLER CONTROL CABINET
	SPRINKLER HEAD - PENDENT
	SPRINKLER HEAD - UPRIGHT
	SPRINKLER HEAD - CONCEALED
	SPRINKLER HEAD - UPRIGHT c/w WIRE GUARD
	SPRINKLER HEAD - SIDEWALL PENDENT
	SPRINKLER HEAD - SIDEWALL c/w GUARD
	SPRINKLER HEAD - DRY PENDENT

DIFFUSER LEGEND

THIS LEGEND OF SYMBOLS REPRESENTS
MANTECON PARTNERS INC.,
STANDARD/GENERIC LEGEND
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	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	EXHAUST GRILLE
	RETURN GRILLE
	ROUND CIRCLE DIFFUSER

GOW HASTINGS ARCHITECTS

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1	Issued for 50% CD SET	2026-02-18

CentenniaL Story Arts Centre Relocation

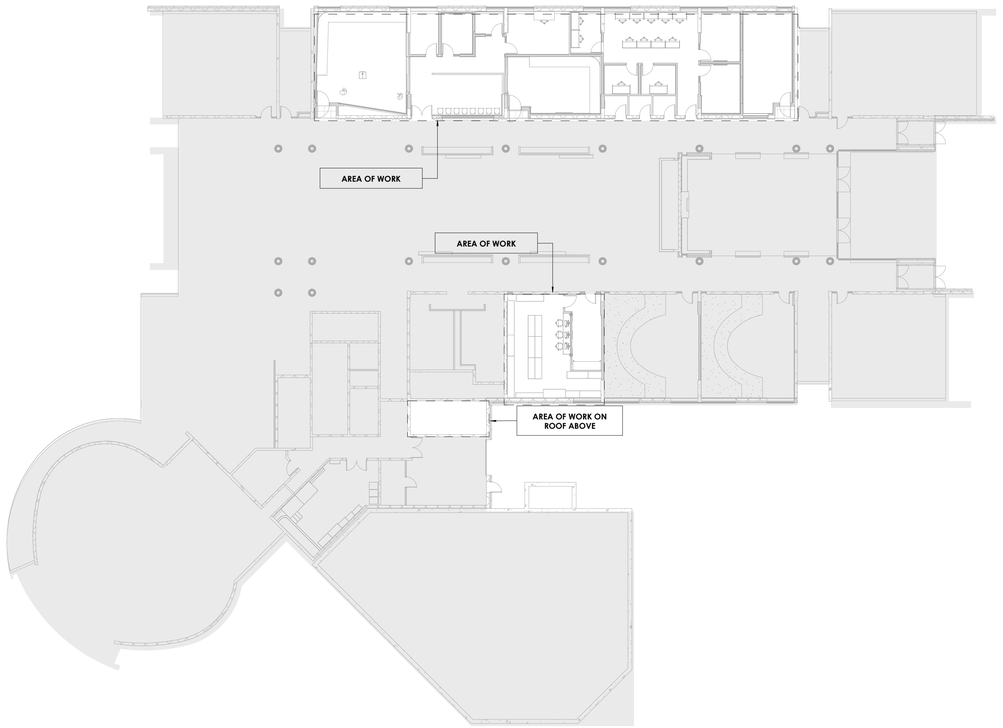
941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

LEAD SHEET (DRAWING LIST, LEGEND & NOTES)

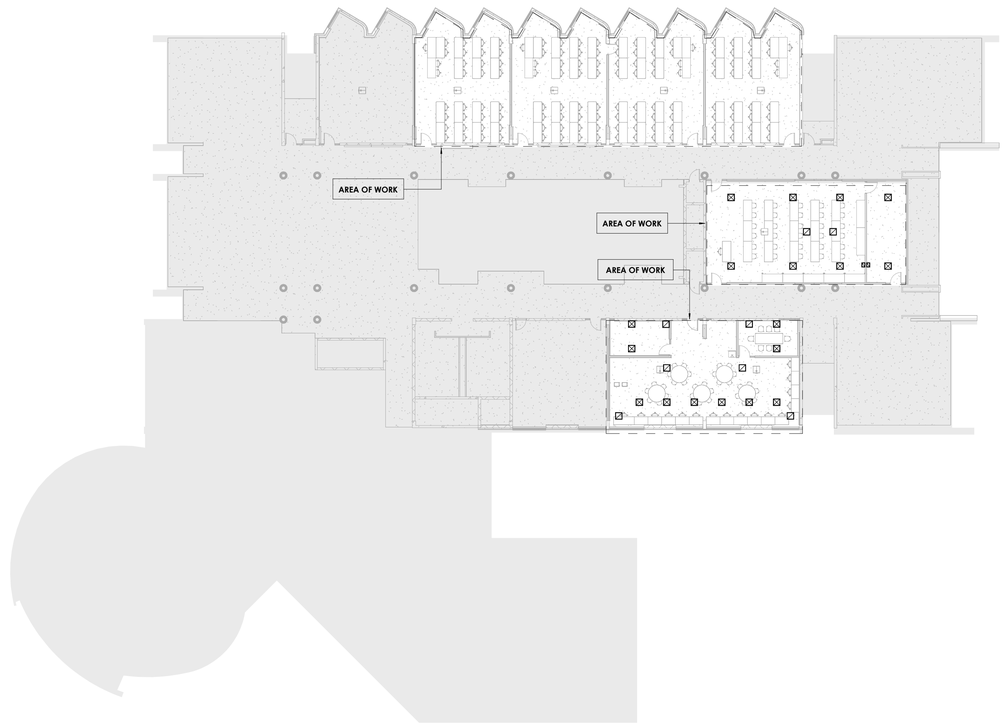
Scale: NTS

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-000



1 M-001 LEVEL 1 KEY PLAN
1 : 250



2 M-001 LEVEL 2 KEY PLAN
1 : 250

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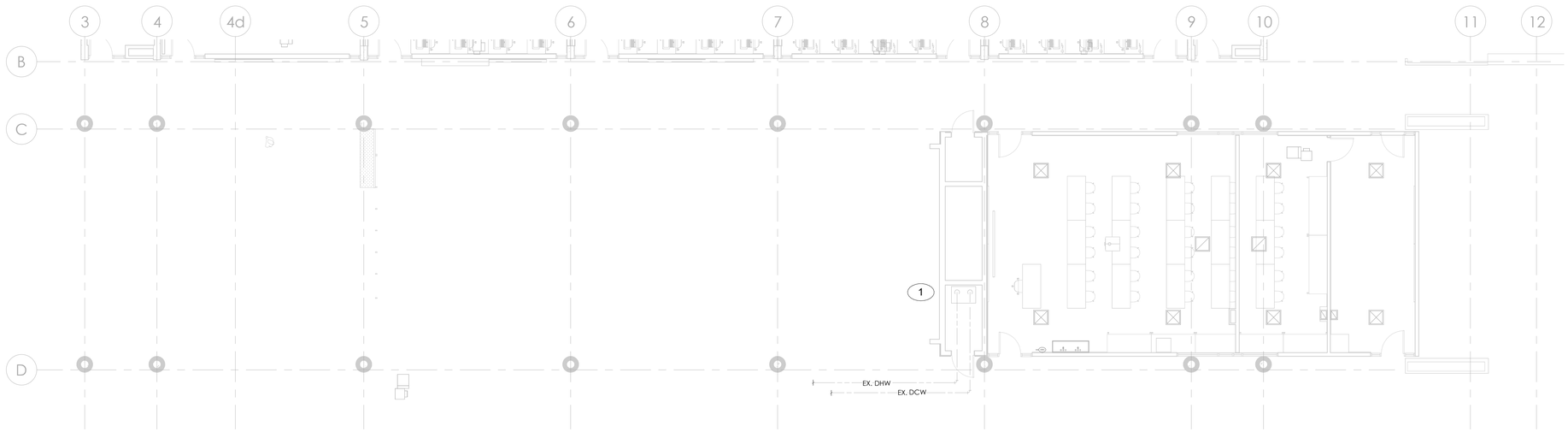
MECHANICAL KEY PLAN

Project North

Scale: 1 : 250

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-001



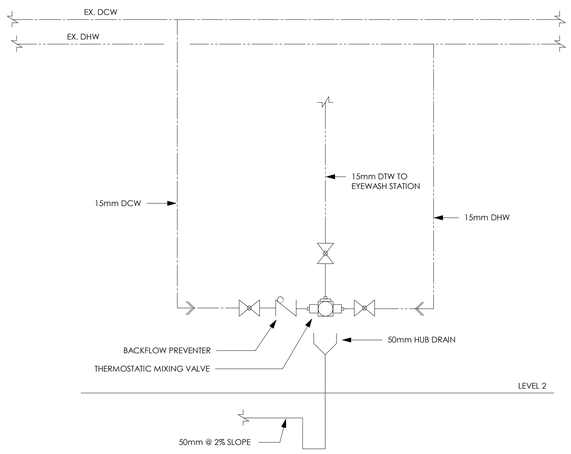
DRAWING NOTES - PLUMBING

(1) EXISTING 25 DIA. DCW / DHW TO JANITORY CLOSET TO REMAIN

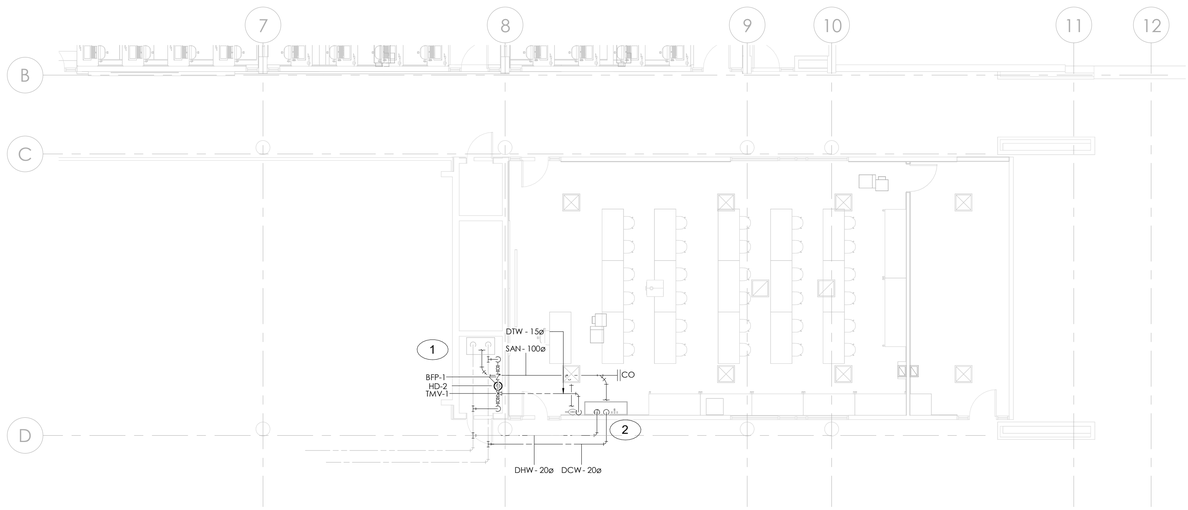
GENERAL NOTES - PLUMBING

1. THIS DRAWING INDICATES FOCUS AREA OF VIEW. PLUMBING CONTRACTOR TO VERIFY SITE CONDITION BEFORE COMMENCING WORK. REPORT TO ENGINEER ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED DESIGN INTENT.
2. REMOVE ALL DEBRIS AND RUBBISH DAILY AND ONCE WORK IS COMPLETE.
3. COORDINATE ALL REQUIREMENTS WITH GENERAL TRADE ON SITE.
4. ALL EXISTING PIPING AND VALVES AROUND WORK AREA TO BE INSPECTED, SECURED AND SHUT OFF BEFORE COMMENCING WORK.
5. CLEAR EXISTING DUCTWORK WHEN INSTALLING NEW PIPING.
6. PROVIDE CLEANOUT AT BOTTOM OF EVERY SOIL AND WASTE STACK CONNECTED TO HORIZONTAL DRAINAGE PIPE.
7. PROVIDE CLEANOUTS AT PLUMBING FIXTURES AS REQUIRED BY ONTARIO BUILDING CODE PART 7.
8. ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS TO BE TRAPPED AND VENTED AS REQUIRED BY CODE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS.
10. PROVIDE ACCESS DOORS FOR CLEANOUTS ABOVE DRYWALL CEILINGS.
11. REMOVE OBSOLETE PIPING WHERE POSSIBLE.
12. ENSURE EXISTING PIPING REMAINS IN SERVICE UNTIL RECONNECTED TO NEW SERVICES.
13. RECONNECT VENTS FROM EXISTING EQUIPMENT AND FIXTURES TO NEW VENTS AS REQUIRED.
14. INSTALL UNDER COUNTER WATER PIPING TIGHT TO UNDERSIDE OF COUNTER.
15. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN EXTERIOR WALLS UNLESS PROPERLY INSULATED.
16. INSTALL SHUT OFF VALVES AT EACH PLUMBING FIXTURE.
17. DEMOLITION PIPING SHALL BE TAKEN BACK TO NEAREST WORKING MAIN AND CAPPED TO AVOID DEAD LEG LENGTHS. REFER TO CSA CODE Z317 SPECIAL REQUIREMENTS FOR PLUMBING INSTALLATIONS IN HEALTH CARE FACILITIES 6.4.1.3.

1 M-100 LEVEL 2 PLUMBING EXISTING PLAN PHASE 2
1 : 100



3 M-100 SCHEMATIC DOMESTIC EYEWASH
1 : 20



DRAWING NOTES - PLUMBING

(1) REFER TO DETAIL SCHEMATIC 1/M-100 FOR DOMESTIC PIPING TO EYEWASH

(2) CONNECT 20 DIA. DCW / DHW FROM EXISTING DOMESTIC PIPING. PROVIDE SHUT OFF BALL VALVE PRIOR TO CONNECTION TO DOMESTIC FIXTURES. PROVIDE 100 DIA. SANITARY PIPING C/W P-TRAP TO DRAINAGE, AS SHOWN

2 M-100 LEVEL 2 PLUMBING PROPOSED PLAN PHASE 2
1 : 100

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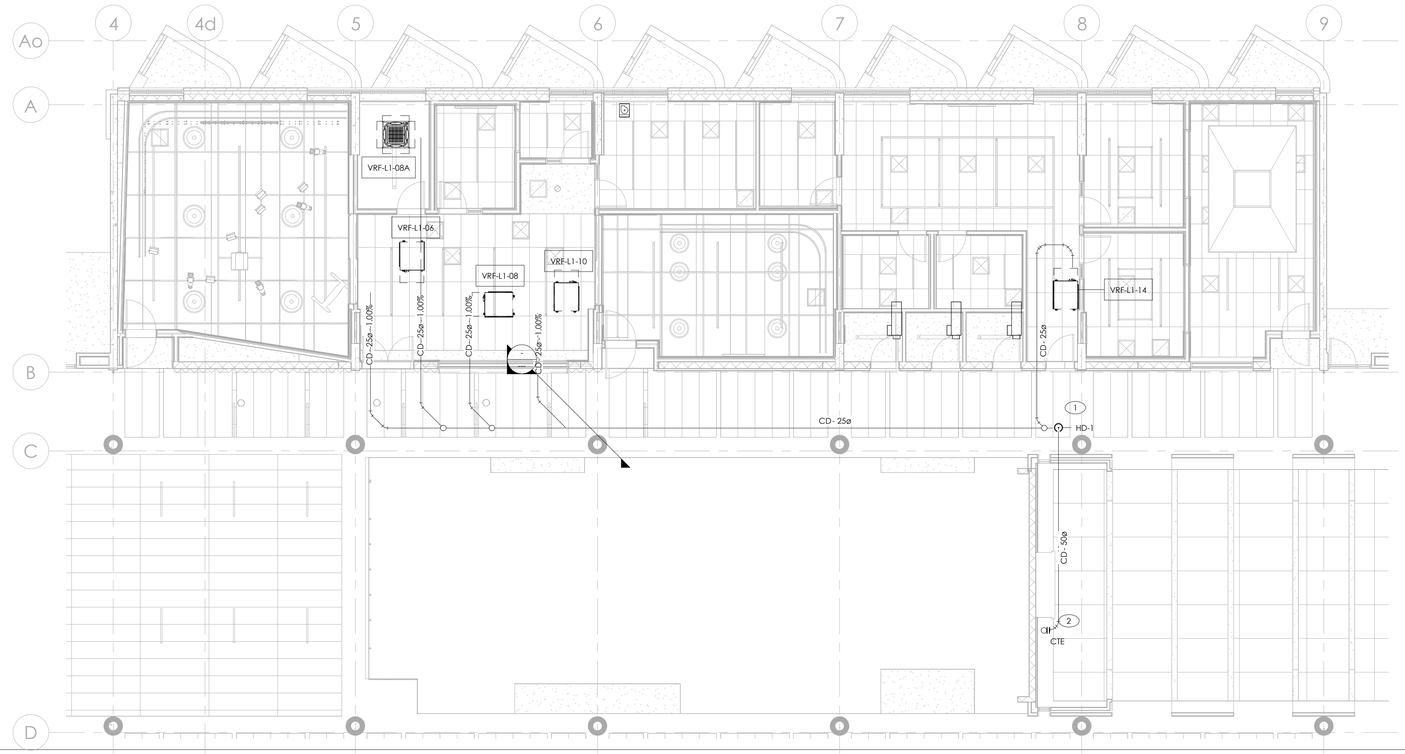
LEVEL 2 - PLUMBING PLAN

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: M.V	
Checked By: N.O	

M-100



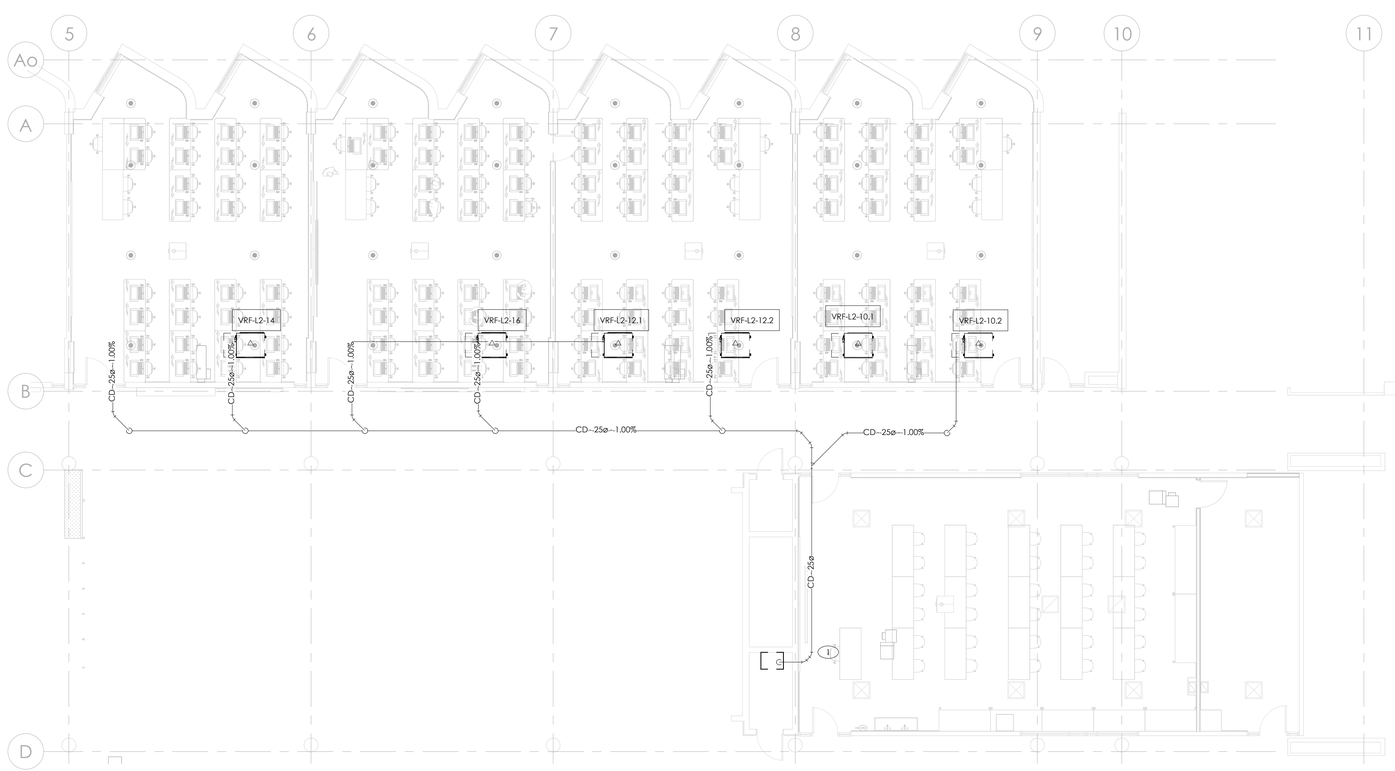
1 LEVEL 1 PROPOSED CONDENSATE FLOOR PLAN
M-101 1 : 100

DRAWING NOTES - DRAINAGE

1. PROVIDE CONDENSATE DRAINAGE FROM VRF TO NEW HUB DRAIN, C/W P-TRAP LOCATED IN CEILING SPACE.
2. CONNECT CONDENSATE DRAINAGE TO EXISTING SANITARY RISER.

GENERAL NOTES - CONDENSATE

1. REFER TO MECHANICAL DETAILS FOR CONDENSATE PIPING DETAIL.



2 LEVEL 2 PROPOSED CONDENSATE FLOOR PLAN
M-101 1 : 100

DRAWING NOTES - DRAINAGE

1. PROVIDE CONDENSATE DRAINAGE FROM VRF TO EXISTING MOP SINK IN AN INDIRECT CONNECTION AS SHOWN

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LEVEL 1 - PROPOSED CONDENSATE

Project North

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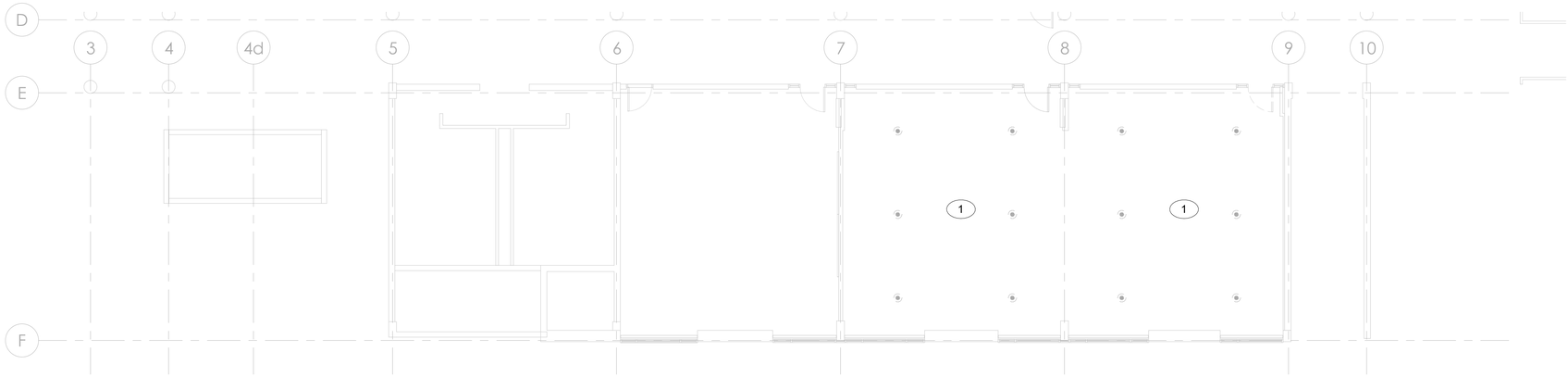
Drawn By: M.V	
Checked By: N.O	

M-101



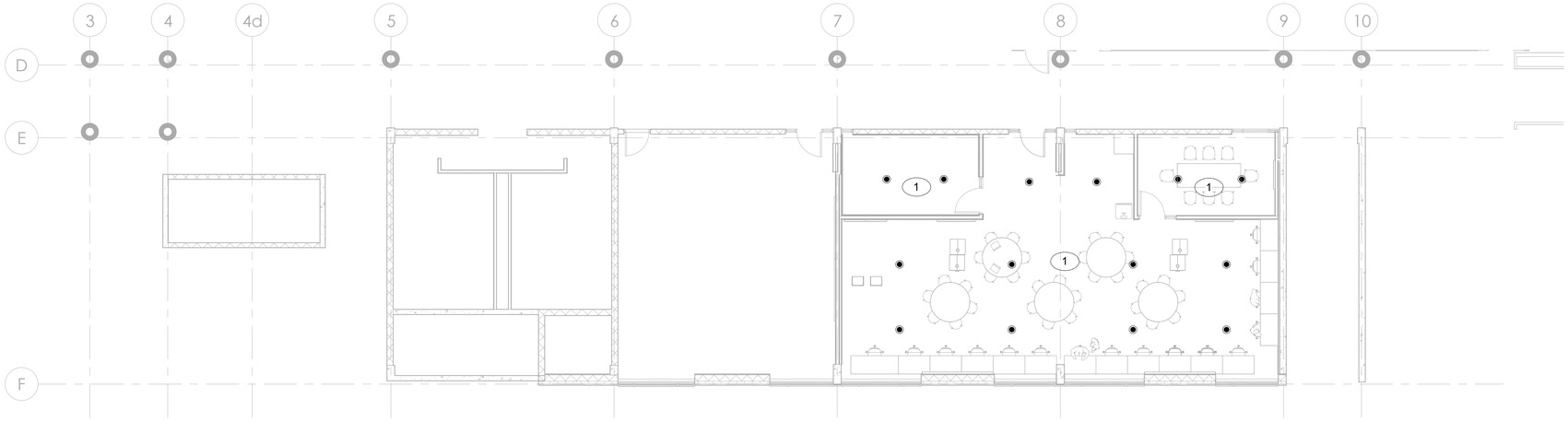
DRAWING NOTES - FIRE PROTECTION

1	DEMOLISH AND REMOVE EXISTING SPRINKLER HEAD AND REPLACE AS SHOWN IN PROPOSED PLAN.

GENERAL NOTES - FIRE PROTECTION

1. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DESIGN OF SPRINKLER SYSTEM IN STRICT ACCORDANCE WITH THE ONTARIO BUILDING CODE, ALL APPLICABLE NFPA STANDARDS, THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITERS ENGINEERING AUTHORITY AND AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES. PROVIDE HORIZONTAL AND OR VERTICAL OFFSETS AS REQUIRED.
3. PROVIDE ADDITIONAL SPRINKLER HEADS AS REQUIRED TO SUIT OBSTRUCTIONS GREATER THAN 1200MM 48 INCHES SUCH AS DUCTWORK AND BULKHEADS.
4. CONTRACTOR SHALL PAY ALL FEES, CHARGES AND COSTS REQUIRED FOR REVIEWS, INSPECTIONS, TESTS OR COMMENTS.
5. SPRINKLER LAYOUT SHOWN SERVES AS GENERAL SCOPE OF WORK. CONTRACTOR SHALL MODIFY DESIGN TO COMPLY WITH AUTHORITIES AND ARCHITECT APPROVAL. HEADS MAY BE ADDED OR DELETED AT NO EXTRA COST PROVIDED APPROVALS ARE MET AND COORDINATION WITH MECHANICAL, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS IS MAINTAINED.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL COORDINATION OF SPRINKLER LAYOUT.
7. SUBMIT SPRINKLER HEAD LAYOUT TO ARCHITECT AND CONSULTANTS FOR REVIEW.
8. IN T BAR CEILINGS LOCATE SPRINKLERS CENTERED LENGTHWISE WITH TILE, AT LEAST 6 INCHES FROM T.
9. PROVIDE WIRE GUARDS ON ALL SPRINKLERS IN MECHANICAL AND ELECTRICAL ROOMS.

1 M-200 LEVEL 2 FIRE PROTECTION EXISTING PLAN
1 : 100



DRAWING NOTES - FIRE PROTECTION

1	PROVIDE AND INSTALL 15mm UPRIGHT HEAD IN LOCATION AS SHOWN.
2	PROVIDE AND INSTALL 15mm CONCEALED PENDENT HEAD IN LOCATION AS SHOWN.

2 M-200 LEVEL 2 FIRE PROTECTION PROPOSED PLAN
1 : 100

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LEVEL 2 - FIRE PROTECTION PLAN

Project North

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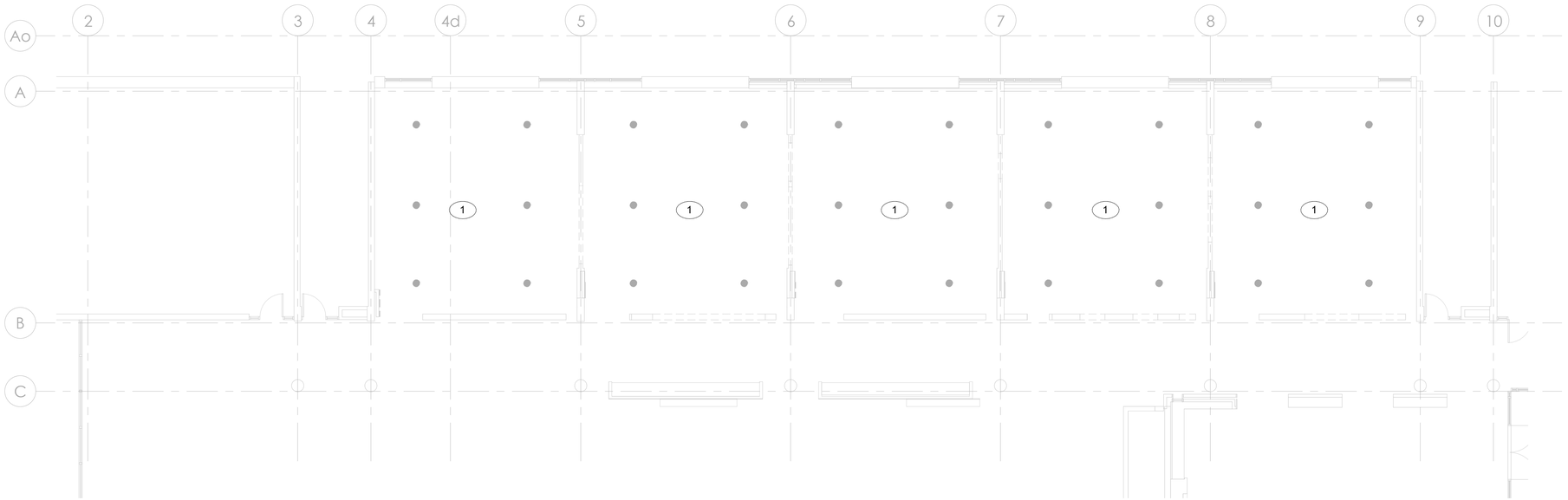
Checked By: N.O	

M-200



DRAWING NOTES - FIRE PROTECTION

(1) DEMOLISH AND REMOVE EXISTING SPRINKLER HEAD AND REPLACE AS SHOWN IN PROPOSED PLAN.

GENERAL NOTES - FIRE PROTECTION

1. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DESIGN OF SPRINKLER SYSTEM IN STRICT ACCORDANCE WITH THE ONTARIO BUILDING CODE, ALL APPLICABLE NFPA STANDARDS, THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITERS ENGINEERING AUTHORITY AND AUTHORITIES HAVING JURISDICTION.
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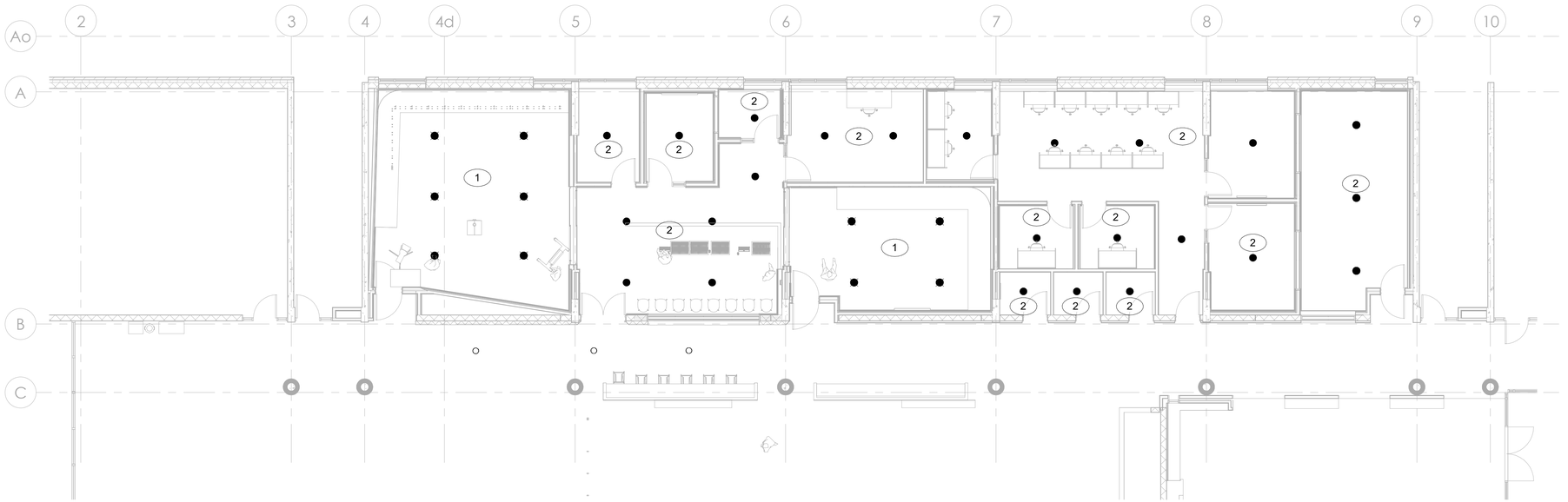
5. SPRINKLER LAYOUT SHOWN SERVES AS GENERAL SCOPE OF WORK. CONTRACTOR SHALL MODIFY DESIGN TO COMPLY WITH AUTHORITIES AND ARCHITECT APPROVAL. HEADS MAY BE ADDED OR DELETED AT NO EXTRA COST PROVIDED APPROVALS ARE MET AND COORDINATION WITH MECHANICAL, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS IS MAINTAINED.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL COORDINATION OF SPRINKLER LAYOUT.
7. SUBMIT SPRINKLER HEAD LAYOUT TO ARCHITECT AND CONSULTANTS FOR REVIEW.
8. IN T BAR CEILINGS LOCATE SPRINKLERS CENTERED LENGTHWISE WITH TILE, AT LEAST 6 INCHES FROM T.
9. PROVIDE WIRE GUARDS ON ALL SPRINKLERS IN MECHANICAL AND ELECTRICAL ROOMS.

1 M-201 LEVEL 1 FIRE PROTECTION DEMOLITION PLAN

1 : 100



DRAWING NOTES - FIRE PROTECTION

(1) PROVIDE AND INSTALL 15mm UPRIGHT HEAD IN LOCATION AS SHOWN.

(2) PROVIDE AND INSTALL 15mm CONCEALED PENDENT HEAD IN LOCATION AS SHOWN.

2 M-201 LEVEL 1 FIRE PROTECTION PROPOSED PLAN

1 : 100

GOW HASTINGS ARCHITECTS

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CentenniaL Story Arts Centre Relocation

941 PROGRESS AVENUE
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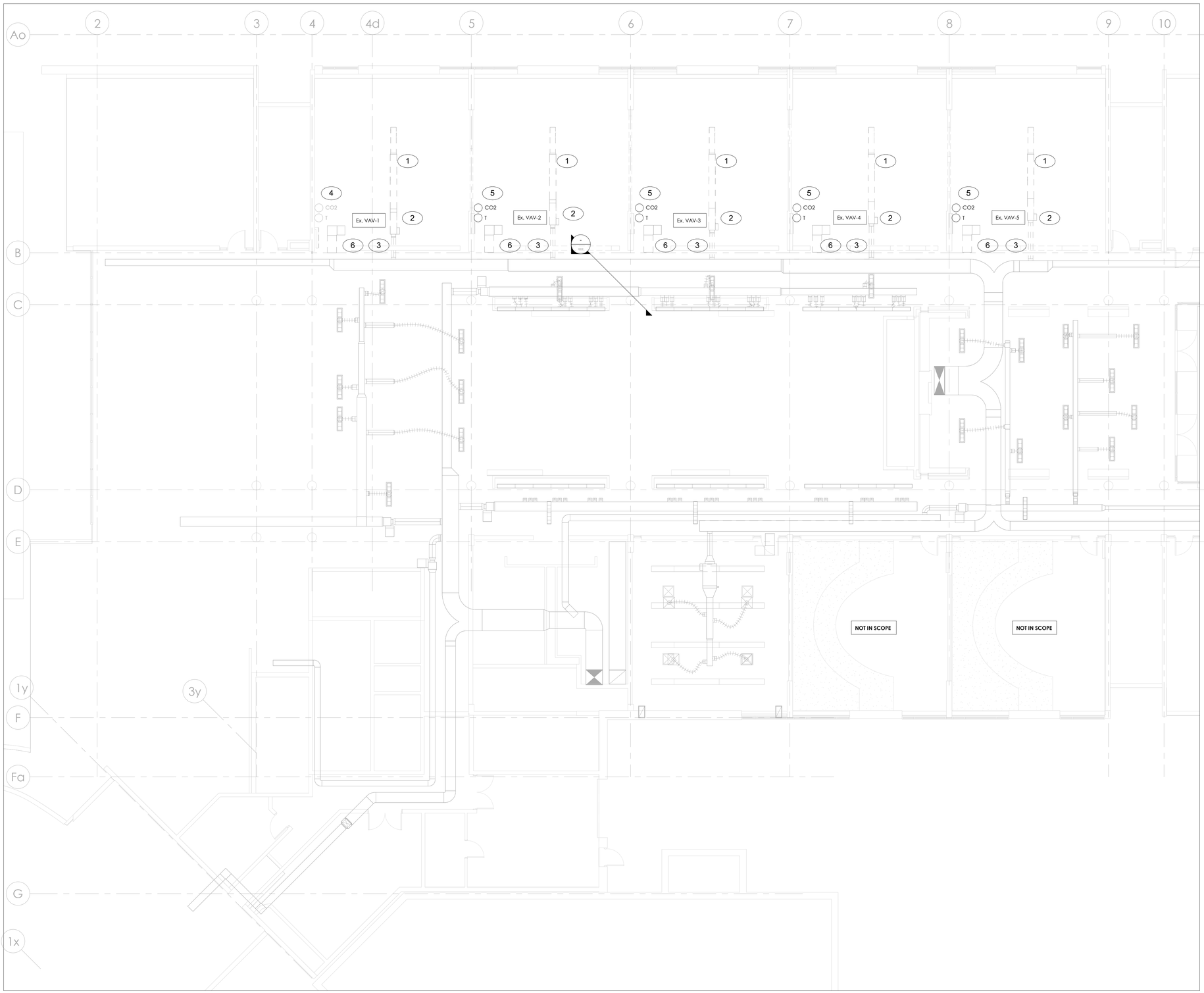
LEVEL 1 - FIRE PROTECTION PLAN

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: M.V	
Checked By: N.O	

M-201



1 M-300 LEVEL 1 HVAC DEMOLITION PLAN
1 : 100

DRAWING NOTES - HVAC

1. DEMOLISH AND REMOVE EXISTING SUPPLY AIR DUCTWORK AND ASSOCIATED HANGERS.
2. REMOVE AND RELOCATE EXISTING VAV BOX TO LOCATION AS SHOWN IN PROPOSED DRAWING. DISCONNECT POWER, BAS AND TEMPERATURE CONTROL WIRING AND CONNECT TO VAV IN PROPOSED LOCATION.
3. DEMOLISH AND REMOVE EXISTING INTAKE TO VAV AND CAP DISTRIBUTION MAIN DUCTWORK
4. EXISTING TEMPERATURE CONTROL TO REMAIN IN SPACE. ENSURE EQUIPMENT IS PROPERLY PROTECTED AND SECURED FROM ANY WORK. EXISTING CARBON DIOXIDE SENSOR TO DEMOLISH AND REMOVE.
5. EXISTING TEMPERATURE SENSOR AND CARBON DIOXIDE SENSOR TO BE RELOCATED PER PROPOSED PLANS.
6. EXISTING LINED TRANSFER DUCT TO BE REMOVED AND REUSED. REFER TO PROPOSED PLANS FOR RELOCATION.

GENERAL NOTES - HVAC

1. THIS DRAWING INDICATES GENERAL INTENT OF DEMOLITION ONLY. CONTRACTOR TO VERIFY SITE CONDITION BEFORE DEMOLITION AND COMMENCING WORK. REPORT TO ENGINEER ANY DISCREPANCIES BETWEEN EXISTING AND DEMOLITION INTENT.
2. DEMOLISH ALL DUCTWORK, PIPING, DIFFUSERS, GRILLES, CONTROLS, AND ACCESSORIES AS INDICATED AND AS REQUIRED.
3. REMOVE ALL DEBRIS AND RUBBISH DAILY AND ONCE WORK IS COMPLETE.
4. COORDINATE WORK WITH ALL TRADES.
5. SUITABLE FIRE STOP & SMOKE SEAL MATERIALS AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH GENERAL TRADE ON SITE.
6. ALL EXISTING EQUIPMENT AND CONTROLS WIRING TO BE SECURED AND RETAINED IN PLACE FOR FUTURE USE
7. ALL DUCTWORK ABOVE AND IN NOISE SENSITIVE AREAS TO BE INTERNALLY LINED

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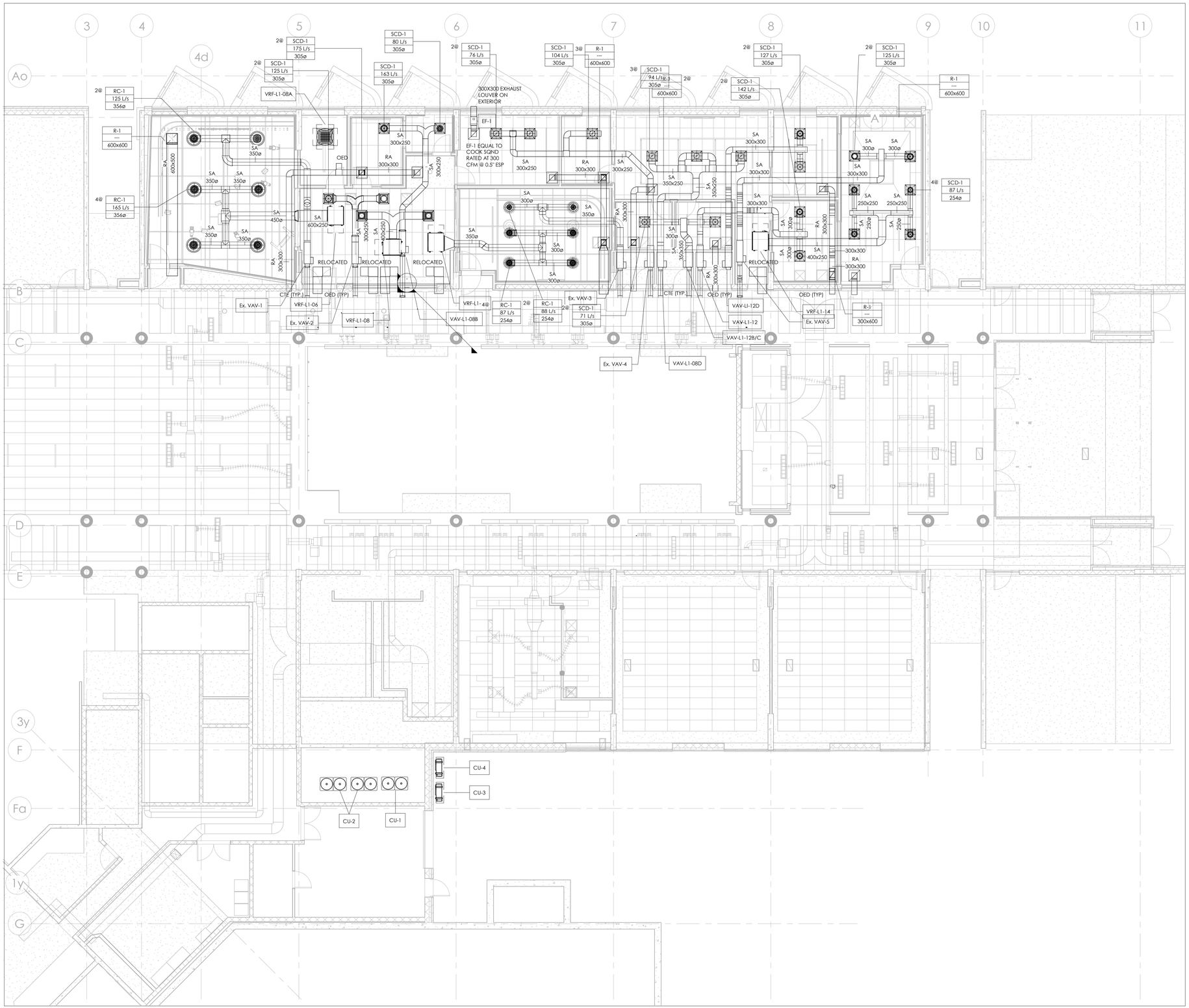
LEVEL 1 HVAC DEMOLITION PLAN

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-300



1 M-301 LEVEL 1 HVAC PROPOSED PLAN
1 : 100

GENERAL NOTES - HVAC

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No.	ISSUED/REVISED	DATE

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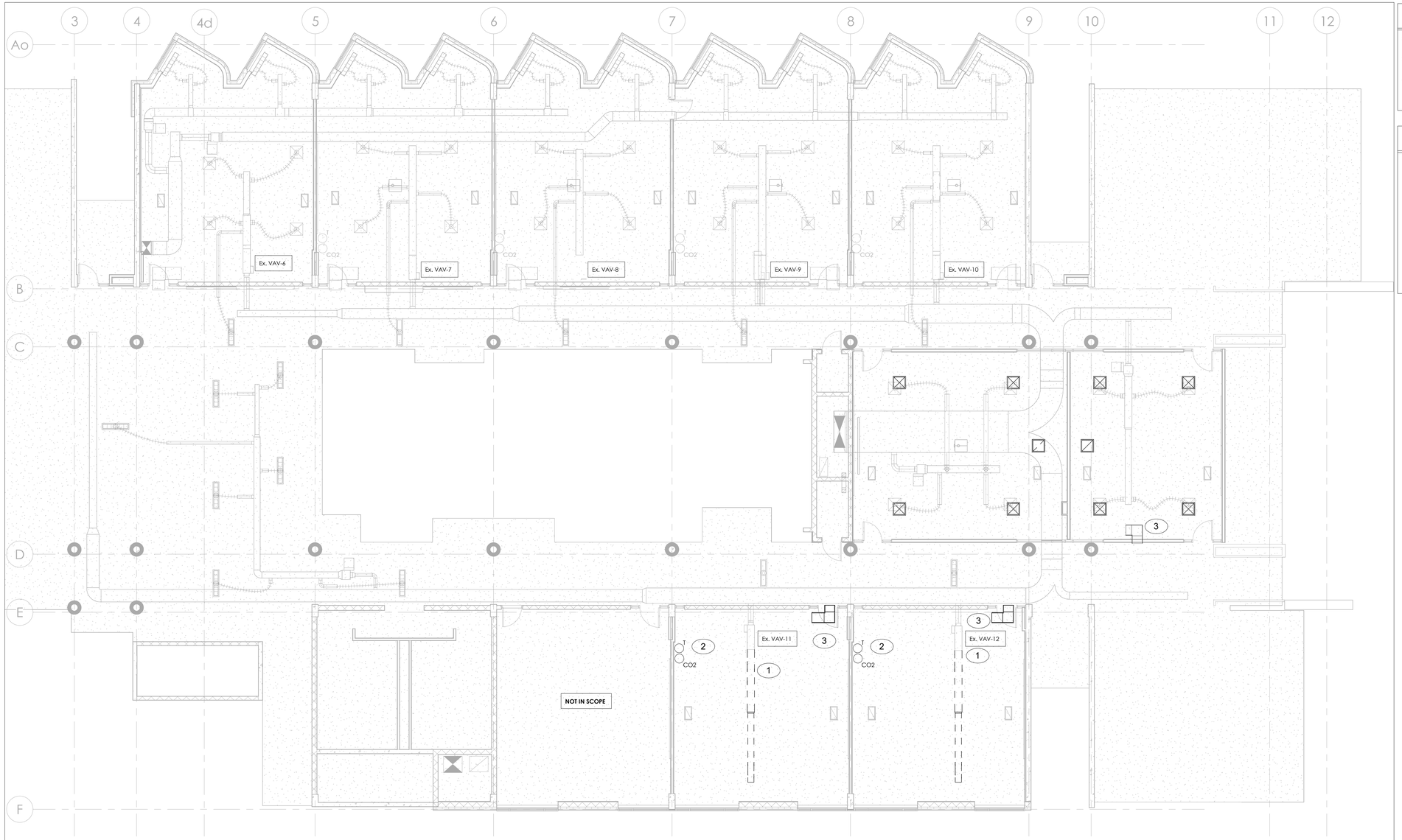
LEVEL 1 HVAC PROPOSED PLAN

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-301



2 LEVEL 2 HVAC EXISTING PLAN
M-302 1 : 100

DRAWING NOTES - HVAC

1. DEMOLISH AND REMOVE EXISTING SUPPLY AIR DUCTWORK AND ASSOCIATED HANGERS.
2. EXISTING TEMPERATURE SENSORS AND CARBON DIOXIDE SENSORS TO BE RELOCATED. REFER TO PROPOSED PLANS.
3. EXISTING LINED TRANSFER DUCT TO BE REMOVED AND REUSED. REFER TO PROPOSED PLANS FOR RELOCATION.

GENERAL NOTES - HVAC

1. THIS DRAWING INDICATES GENERAL INTENT OF DEMOLITION ONLY. CONTRACTOR TO VERIFY SITE CONDITION BEFORE DEMOLITION AND COMMENCING WORK. REPORT TO ENGINEER ANY DISCREPANCIES BETWEEN EXISTING AND DEMOLITION INTENT.
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7. ALL DUCTWORK ABOVE AND IN NOISE SENSITIVE AREAS TO BE INTERNALLY LINED

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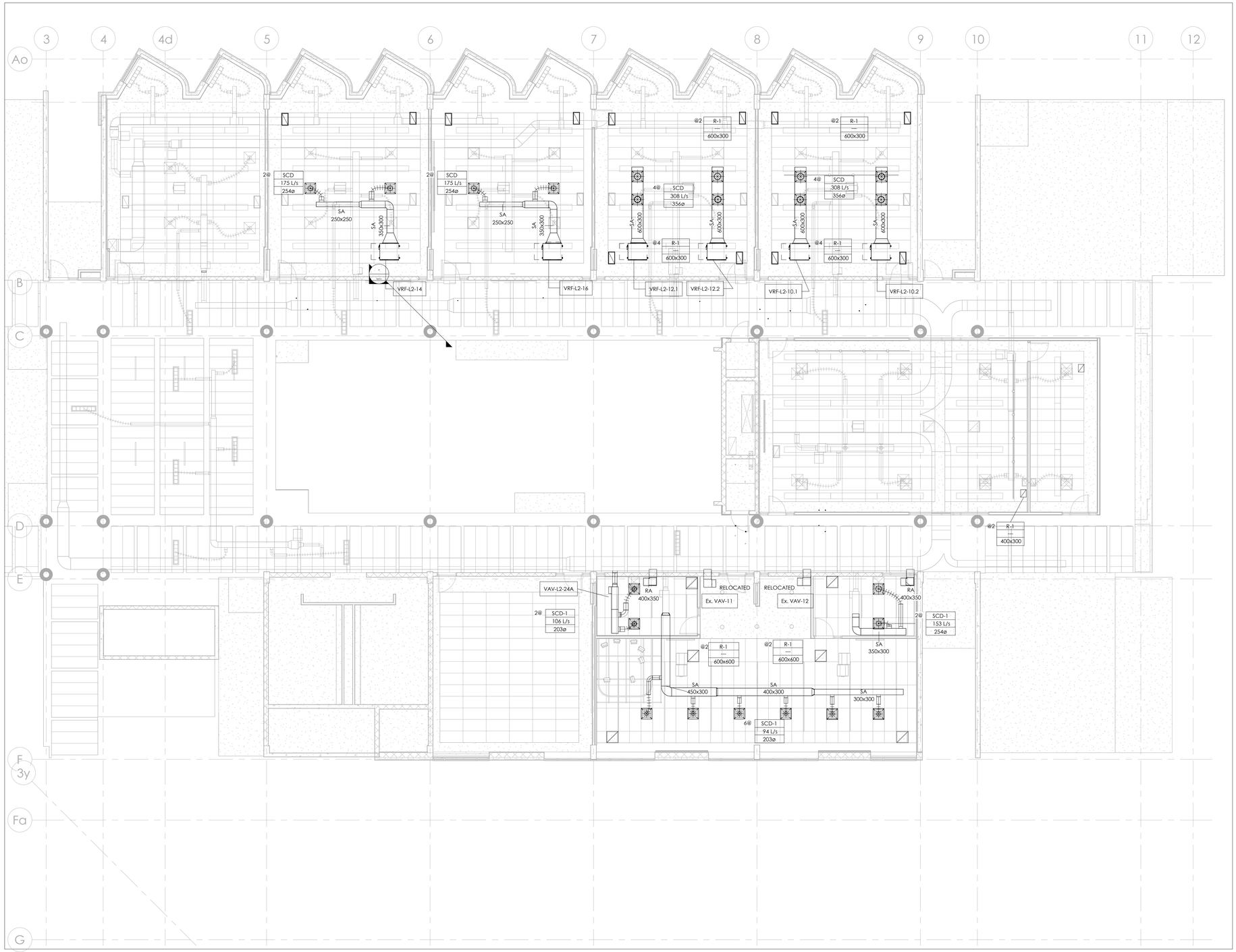
LEVEL 2 HVAC DEMOLITION PLAN

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-302



1 Level 2 HVAC PROPOSED PLAN
M-303 1 : 100

GENERAL NOTES - HVAC

1. THIS DRAWING INDICATES GENERAL INTENT OF DEMOLITION ONLY. CONTRACTOR TO VERIFY SITE CONDITION BEFORE DEMOLITION AND COMMENCING WORK. REPORT TO ENGINEER ANY DISCREPANCIES BETWEEN EXISTING AND DEMOLITION INTENT.
2. DEMOLISH ALL DUCTWORK, PIPING, DIFFUSERS, GRILLES, CONTROLS, AND ACCESSORIES AS INDICATED AND AS REQUIRED.
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7. ALL DUCTWORK ABOVE AND IN NOISE SENSITIVE AREAS TO BE INTERNALLY LINED

GOW HASTINGS ARCHITECTS

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CentenniaL Story Arts Centre Relocation

941 PROGRESS AVENUE
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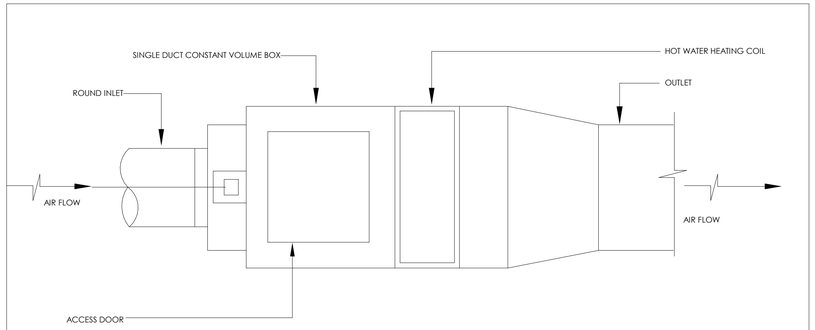
LEVEL 2 HVAC PROPOSED PLAN

Project North

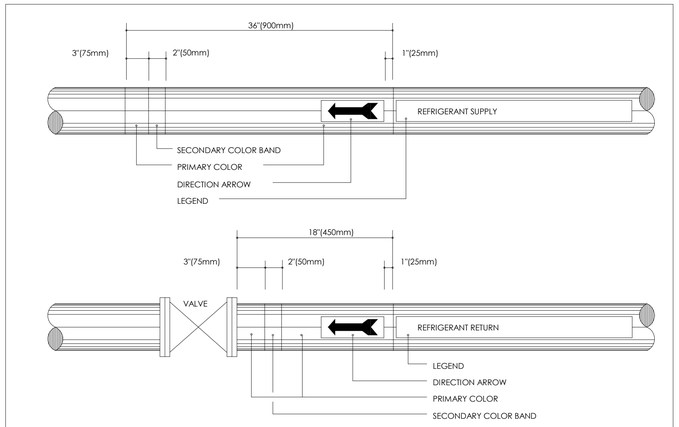
Scale: As indicated

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

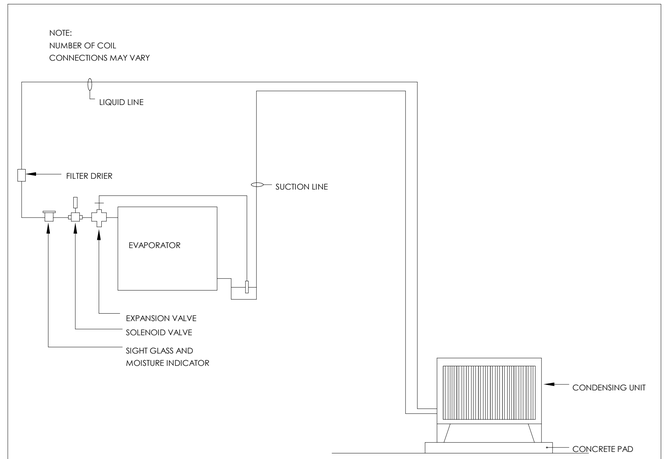
M-303



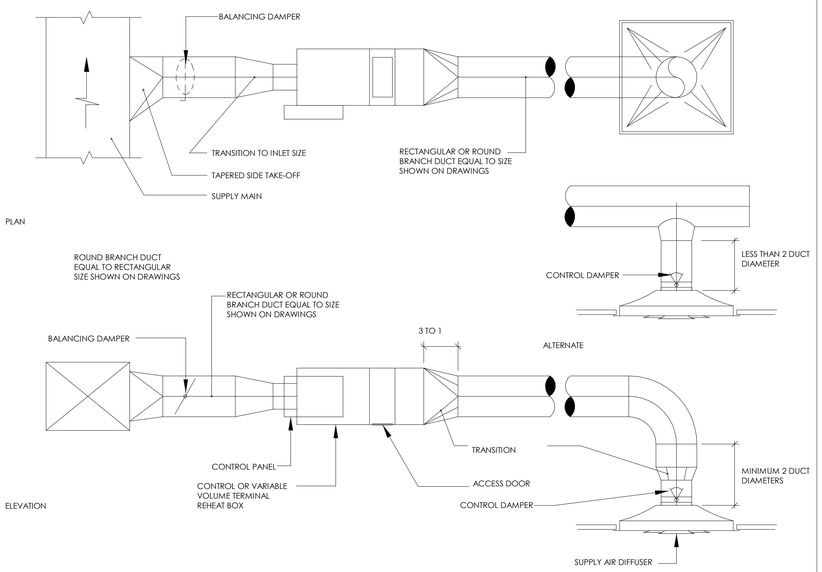
M-400 CLOSE UP DETAIL OF TERMINAL VAV



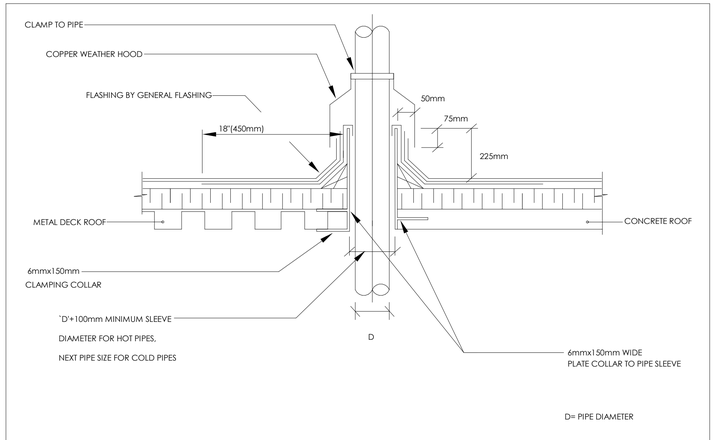
M-400 DETAIL OF PIPING IDENTIFICATION



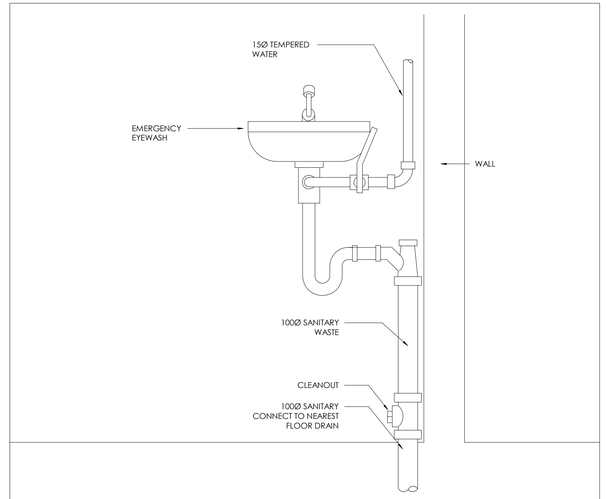
M-400 REFRIGERANT PIPING SCHEMATIC



M-400 DETAIL OF TERMINAL VAV BOX



M-401 DETAIL OF PIPE THROUGH ROOF



M-400 EMERGENCY EYEWASH STATION

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CentenniaL Story Arts Centre Relocation

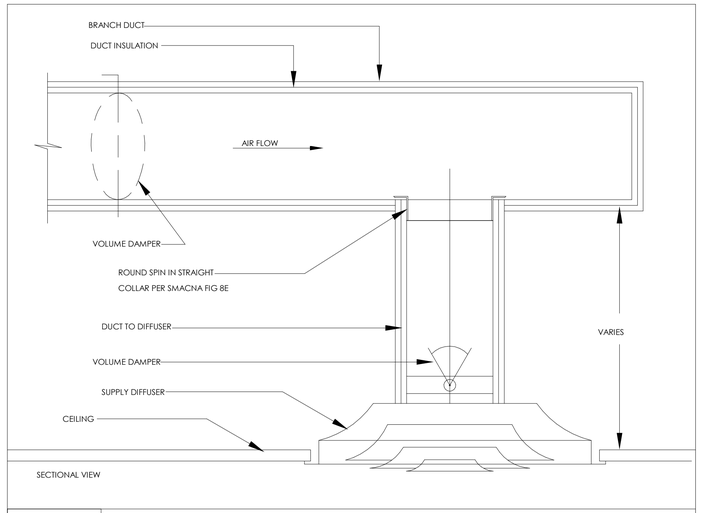
941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

MECHANICAL DETAILS AND SECTIONS

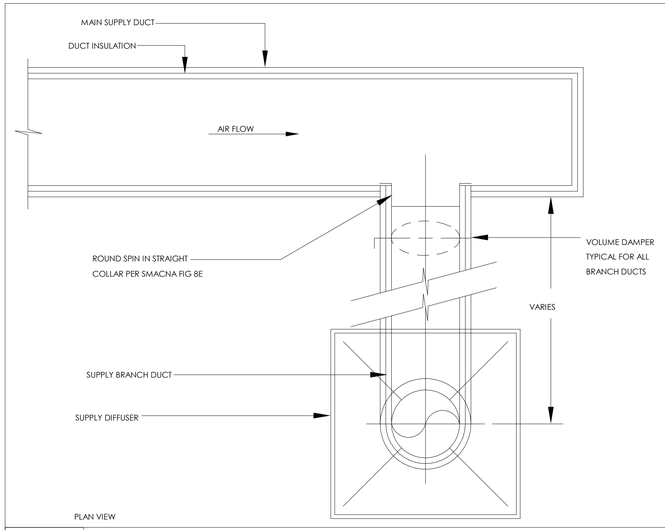
Scale: As indicated

Project Number: 25-120
Drawn By: N.O
Checked By: F.B

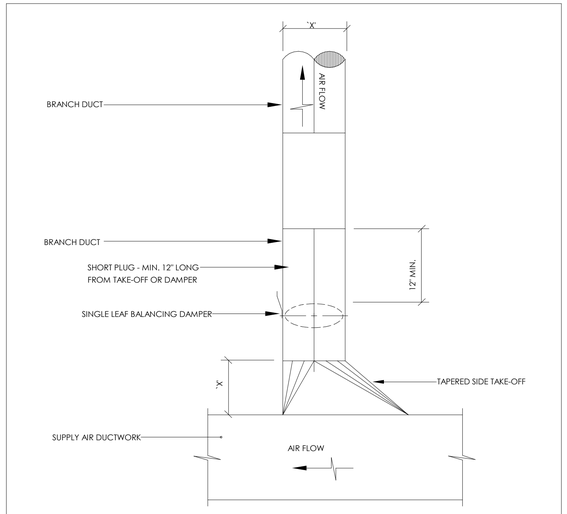
M-400



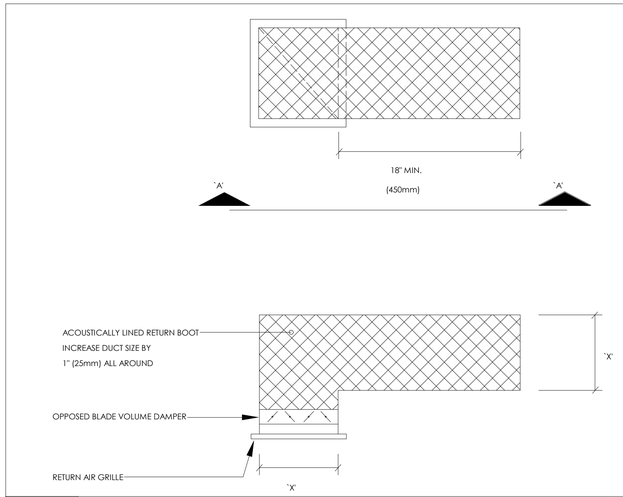
M-401 DETAIL OF DUFFUSER CONNECTION WITH SPIN IN COLLAR



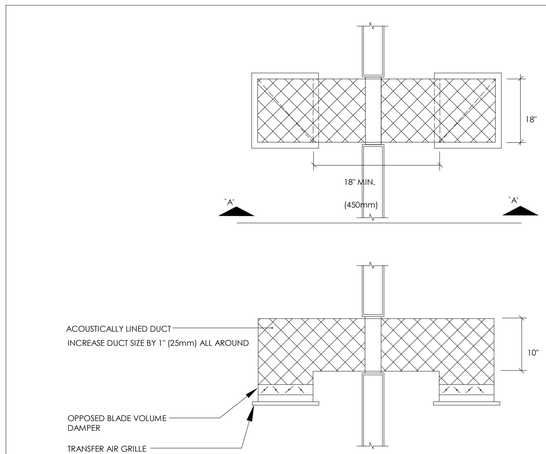
M-401 PLAN VIEW OF DIFFUSER CONNECTION WITH SPIN IN COLLAR



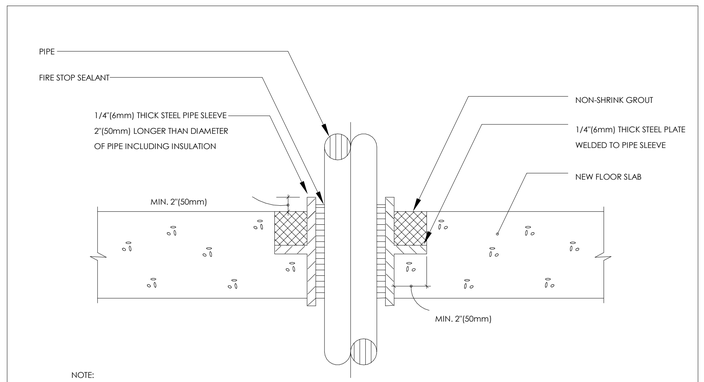
M-401 DETAIL OF ROUND DUCT TO TAKE-OFF



M-401 DETAIL OF AIR GRILLE AND BOOT



M-401 DETAIL OF TRANSFER AIR GRILLE AND BOOT



M-401 DETAIL OF PIPE SLEEVE IN FLOOR SLAB

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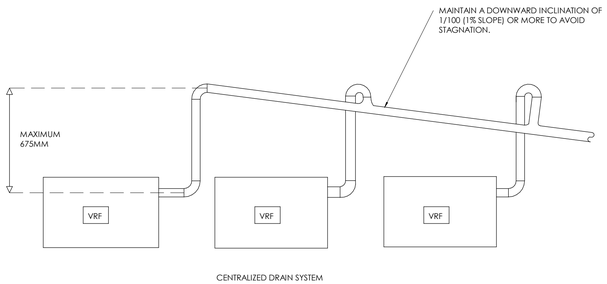
MECHANICAL DETAILS AND SECTIONS

Scale: 1 : 20

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

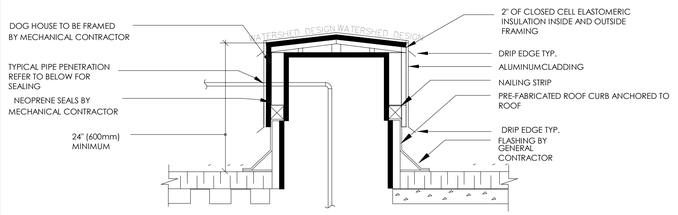
M-401



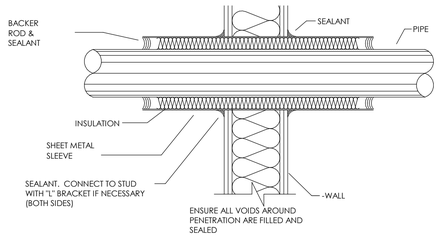
CENTRALIZED DRAIN SYSTEM

M-403	DETAIL OF CENTRALIZED DRAIN PIPE

DOGHOUSE FABRICATION



PIPE PENETRATION



M-403	DETAIL OF DOG HOUSE AND PIPING PENETRATIONS

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MECHANICAL DETAILS AND SECTIONS

Scale: As indicated

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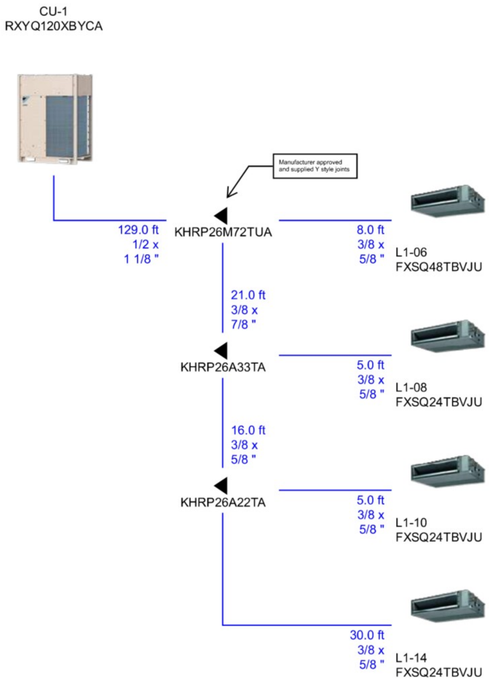
Drawn By: N.O	
Checked By: F.B	

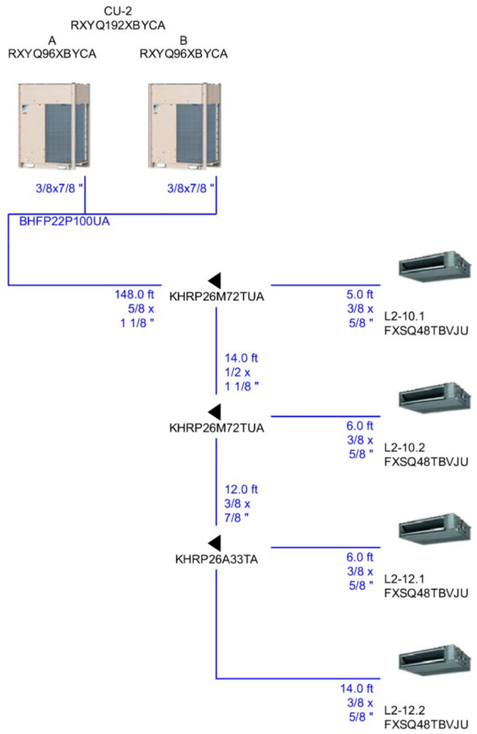
M-403

Piping CU-1



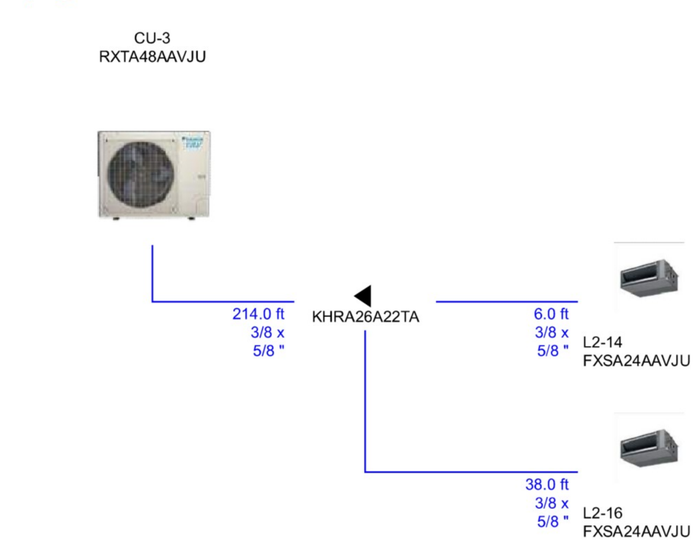
1 M-404 / CU-1 PIPING DIAGRAM
NTS

Piping CU-2



2 M-404 / CU-2 PIPING DIAGRAM
NTS

Piping CU-3



3 M-404 / CU-3 PIPING DIAGRAM
NTS

Piping CU-4

4 M-404 / CU-4 PIPING DIAGRAM
NTS

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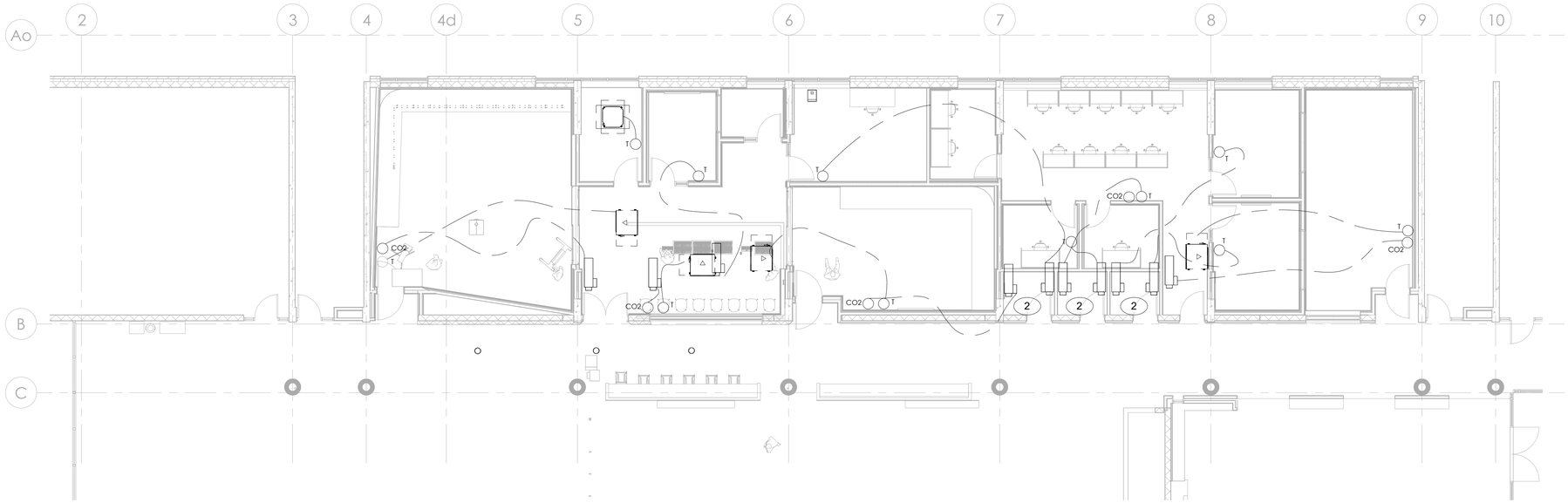
CONDENSING UNIT & VRF PIPING SCHEMATICS

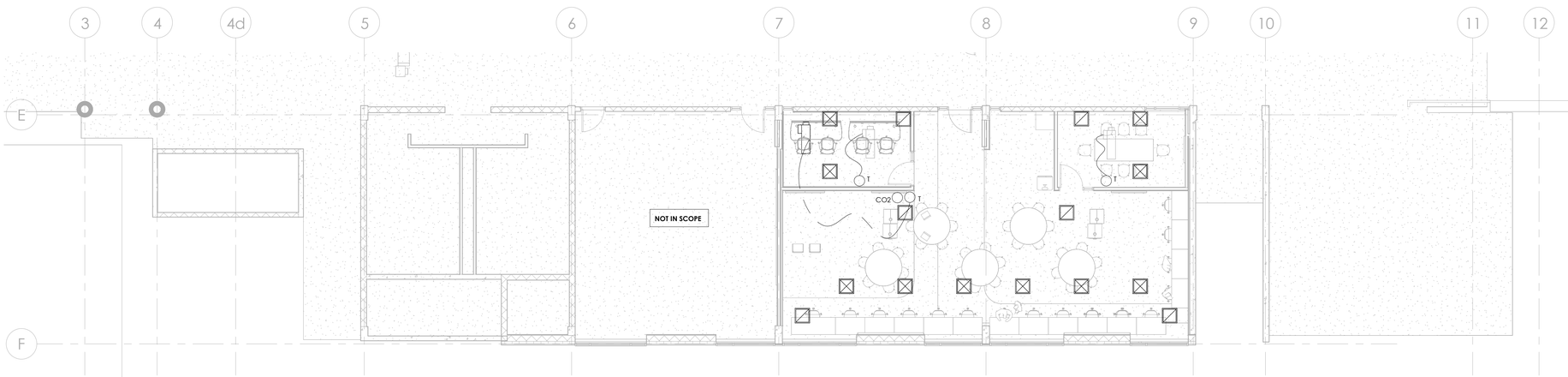
Scale: NTS

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-404



1 M-500 LEVEL 1 BROADCASTING WING CONTROLS FLOOR PLAN
1 : 100



2 M-500 LEVEL 2 JOURNALISM CONTROLS FLOOR PLAN
1 : 100

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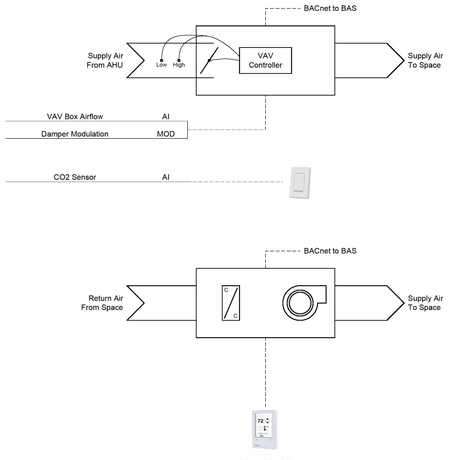
MECHANICAL EQUIPMENT CONTROLS FLOOR PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-500



1 M-501 VRF & VAV CONTROL SCHEMATICS
1 : 1

1.1. TYPICAL VAV BOX

1.1.1. General

1.1.1.1. When the associated air handling unit is operational the VAV box controls the amount of air to the space to maintain temperature and to provide adequate ventilation.

1.1.1.2. The VAV box uses a cascading control loop where the first loop calculates the desired airflow setpoint to maintain either temperature or ventilation. The second loop modulates the damper to maintain the airflow at setpoint.

1.1.2. Modes of Operation

1.1.2.1. The occupied and unoccupied modes are determined by a time of day schedule.

1.1.3. Occupied Mode

1.1.3.1. Overview: The air handling unit is operational and the VAV box will provide variable airflow to the space to maintain the space temperature at setpoint. The following describes the logical sequencing during the various scenarios.

1.1.3.1.1. When cooling is required, and the AHU is providing cool air: The airflow setpoint will increase until either the cooling load is met or the airflow setpoint reaches the maximum allowable value.

1.1.3.1.2. When heating is required, and the AHU is providing cool air: The airflow setpoint will decrease until either the load is met or the airflow setpoint reaches the minimum allowable value.

1.1.3.2. Space Temperature Setpoint: The space temperature setpoint will be set to 23 Deg C. A bias of +/- 1 Deg C will be applied to the space temperature setpoint to allow for heating and cooling control. Setpoint is adjustable via the local stat.

1.1.3.3. Airflow Setpoint: The airflow setpoint is automatically calculated between the minimum and maximum values to maintain the space temperature at setpoint as per the scenarios above. The minimum airflow setpoint is set to the lowest of either: 1) the minimum value shown in the VAV schedule or 2) the minimum value calculated by the CO2 algorithm.

1.1.3.4. CO2 Control: The CO2 algorithm will calculate the amount of air required maintain the space CO2 level at 1000 ppm. The program will adjust the minimum airflow setpoint to be the higher of either: 1) the minimum airflow setpoint, 2) the minimum amount for CO2 control.

1.1.3.5. Damper Modulation: The damper will modulate to maintain the airflow at setpoint.

1.1.4. Unoccupied Mode

1.1.4.1. Overview: When the air handling unit is not running there is no temperature control in the space.

1.1.5. Integration and Optimization

1.1.5.1. Airflow Request: An airflow request is generated (starved box flag) when the VAV box is occupied, the damper is fully open, and the airflow is more than 10% of the cooling maximum airflow setpoint, below setpoint. The request is reset once the damper is less than 75% open. The airflow request is sent to the associated air handling unit to increase the static pressure setpoint. An accumulation counter is provided to indicate the number of hours the request is on.

1.1.5.2. The AHU status is shared over the network.

1.1.6. Critical Events

1.1.6.1. Extremely Low Space Temperature: The space temperature drops below 10 Deg C.

1.1.7. Urgent Events

1.1.7.1. None

1.1.8. Non-Urgent Events

1.1.8.1. Space Temperature Alarm: Space temperature is more than 3 Deg C above or below setpoint (10-minute delay).

1.1.8.2. Low Airflow Alarm: Airflow is less than 50% of setpoint (10-minute delay).

1.1.8.3. High CO2 Alarm: CO2 level is above 1500 ppm (10-minute delay).

1.1.8.4. Manual overrides are placed on the system (10-minute delay).

1.1.9. Maintenance Events

1.1.9.1. None

1.2. TYPICAL VAV BOX + VRF

1.2.1. General

1.2.1.1. When the associated air handling unit is operational the VAV box controls the amount of air to the space to maintain adequate ventilation. Cooling is provided by the VRF unit.

1.2.1.2. The VAV box uses a cascading control loop where the first loop calculates the desired airflow setpoint to maintain either temperature or ventilation. The second loop modulates the damper to maintain the airflow at setpoint.

1.2.1.3. The VRF is connected to the BAS via a BACnet interface.

1.2.2. Modes of Operation

1.2.2.1. The occupied and unoccupied modes are determined by a time of day schedule.

1.2.3. Occupied Mode

1.2.3.1. Overview: The air handling unit is operational and the VAV box will provide variable airflow to the space to maintain the space CO2 level at setpoint. The VRF system provides cooling to the space. The following describes the logical sequencing during the various scenarios.

1.2.3.2. Space Temperature Setpoint: The space temperature setpoint will be set to 23 Deg C. A bias of +/- 1 Deg C will be applied to the space temperature setpoint to allow for heating and cooling control. Setpoint is adjustable via the local VRF stat.

1.2.3.3. Airflow Setpoint: The airflow setpoint is automatically calculated between the minimum and maximum values to maintain the space temperature at setpoint as per the scenarios above. The minimum airflow setpoint is set to the lowest of either: 1) the minimum value shown in the VAV schedule or 2) the minimum value calculated by the CO2 algorithm.

1.2.3.4. CO2 Control: The CO2 algorithm will calculate the amount of air required maintain the space CO2 level at 1000 ppm. The program will adjust the minimum airflow setpoint to be the higher of either: 1) the minimum airflow setpoint, 2) the minimum amount for CO2 control.

1.2.3.5. Damper Modulation: The damper will modulate to maintain the airflow at setpoint.

1.2.3.6. VRF Operation: The VRF fan coil will run continuously and provide temperature control to the space.

1.2.4. Unoccupied Mode

1.2.4.1. Overview: CO2 control is disabled when the AHU is not running. Temperature control is maintain by the VRF to the unoccupied setpoints. The space temperature heating setpoint will be set to 18 Deg C and the space temperature cooling setpoint will be set to 28 Deg C.

1.2.5. Integration and Optimization

1.2.5.1. Airflow Request: An airflow request is generated (starved box flag) when the VAV box is occupied, the damper is fully open, and the airflow is more than 10% of the cooling maximum airflow setpoint, below setpoint. The request is reset once the damper is less than 75% open. The airflow request is sent to the associated air handling unit to increase the static pressure setpoint. An accumulation counter is provided to indicate the number of hours the request is on.

1.2.5.2. The AHU status is shared over the network.

1.2.6. Critical Events

1.2.6.1. Extremely Low Space Temperature: The space temperature drops below 10 Deg C.

1.2.7. Urgent Events

1.2.7.1. None

1.2.8. Non-Urgent Events

1.2.8.1. Space Temperature Alarm: Space temperature is more than 2 Deg C above or below setpoint (10-minute delay).

1.2.8.2. Low Airflow Alarm: Airflow is less than 50% of setpoint (10-minute delay).

1.2.8.3. High CO2 Alarm: CO2 level is above 1500 ppm (10-minute delay).

1.2.8.4. Manual overrides are placed on the system (10-minute delay).

1.2.8.5. VRF Failure: Failure alarms as provided over the BACnet interface.

1.2.9. Maintenance Events

1.2.9.1. None

1.3. TYPICAL VAV BOX + VRF + IN-FLOOR HEATING

1.3.1. General

1.3.1.1. When the associated air handling unit is operational the VAV box controls the amount of air to the space to maintain adequate ventilation. Cooling is provided by the VRF unit. Heating is provided by the in-floor heating system.

1.3.1.2. The VAV box uses a cascading control loop where the first loop calculates the desired airflow setpoint to maintain either temperature or ventilation. The second loop modulates the damper to maintain the airflow at setpoint.

1.3.1.3. The VRF is connected to the BAS via a BACnet interface.

1.3.2. Modes of Operation

1.3.2.1. The occupied and unoccupied modes are determined by a time of day schedule.

1.3.2.2. Summer Operation: The in-floor heating system is disabled when the outdoor air temperature is above 15 Deg C.

1.3.3. Occupied Mode

1.3.3.1. Overview: The air handling unit is operational and the VAV box will provide variable airflow to the space to maintain the space CO2 level at setpoint. The VRF system provides cooling to the space. The in-floor heating system provides heating to the space. The following describes the logical sequencing during the various scenarios.

1.3.3.2. Space Temperature Setpoint: The space temperature setpoint will be set to 23 Deg C. A bias of +/- 1 Deg C will be applied to the space temperature setpoint to allow for heating and cooling control. Setpoint is adjustable via the local VRF stat.

1.3.3.3. Airflow Setpoint: The airflow setpoint is automatically calculated between the minimum and maximum values to maintain the space temperature at setpoint as per the scenarios above. The minimum airflow setpoint is set to the lowest of either: 1) the minimum value shown in the VAV schedule or 2) the minimum value calculated by the CO2 algorithm.

1.3.3.4. CO2 Control: The CO2 algorithm will calculate the amount of air required maintain the space CO2 level at 1000 ppm. The program will adjust the minimum airflow setpoint to be the higher of either: 1) the minimum airflow setpoint, 2) the minimum amount for CO2 control.

1.3.3.5. In-Floor Heating HWS Temperature Setpoint: The setpoint is reset between the min/max value based on a comparison of space temperature to the space temperature heating setpoint. A step and wait algorithm will increase the setpoint by 1 Deg C every 30 minutes when the space temperature is more than 0.5 Deg C below the heating setpoint. The algorithm will decrease the setpoint by 0.5 Deg C every 30 minutes when the space temperature is more than 0.5 Deg C above the heating setpoint. Minimum setpoint is 20 Deg C, maximum setpoint is 26 Deg C (confirm setpoints on site).

1.3.3.6. Damper Modulation: The damper will modulate to maintain the airflow at setpoint.

1.3.3.7. VRF Operation: The VRF fan coil will run continuously and provide temperature control to the space.

1.3.3.8. In-Floor Heating Pump: Pump is enabled when the space temperature drops below the heating setpoint. Pump is disabled when the space temperature reaches the cooling setpoint and the outdoor air temperature is above 0 Deg C.

1.3.3.9. In-Floor Heating Valve: When the pump is running the valve will modulate to maintain the HWS-T at setpoint.

1.3.4. Unoccupied Mode

1.3.4.1. Overview: CO2 control is disabled when the AHU is not running. Temperature control is maintain by the VRF and in-floor heating system to the unoccupied setpoints. The space temperature heating setpoint will be set to 20 Deg C and the space temperature cooling setpoint will be set to 28 Deg C.

1.3.5. Integration and Optimization

1.3.5.1. Airflow Request: An airflow request is generated (starved box flag) when the VAV box is occupied, the damper is fully open, and the airflow is more than 10% of the cooling maximum airflow setpoint, below setpoint. The request is reset once the damper is less than 75% open. The airflow request is sent to the associated air handling unit to increase the static pressure setpoint. An accumulation counter is provided to indicate the number of hours the request is on.

1.3.5.2. The AHU status is shared over the network.

1.3.6. Critical Events

1.3.6.1. Extremely Low Space Temperature: The space temperature drops below 10 Deg C.

1.3.7. Urgent Events

1.3.7.1. None

1.3.8. Non-Urgent Events

1.3.8.1. Space Temperature Alarm: Space temperature is more than 2 Deg C above or below setpoint (10-minute delay).

1.3.8.2. Low Airflow Alarm: Airflow is less than 50% of setpoint (10-minute delay).

1.3.8.3. High CO2 Alarm: CO2 level is above 1500 ppm (10-minute delay).

1.3.8.4. Manual overrides are placed on the system (10-minute delay).

1.3.8.5. VRF Failure: Failure alarms as provided over the BACnet interface.

1.3.8.6. Pump Failure: Pump is commanded on, but status is off (30-second delay).

1.3.9. Maintenance Events

1.3.9.1. None

1.4. TYPICAL VAV BOX + IN-FLOOR HEATING

1.4.1. General

1.4.1.1. When the associated air handling unit is operational the VAV box controls the amount of air to the space to maintain adequate ventilation. Heating is provided by the in-floor heating system.

1.4.1.2. The VAV box uses a cascading control loop where the first loop calculates the desired airflow setpoint to maintain either temperature or ventilation. The second loop modulates the damper to maintain the airflow at setpoint.

1.4.1.3. The VRF is connected to the BAS via a BACnet interface.

1.4.2. Modes of Operation

1.4.2.1. The occupied and unoccupied modes are determined by a time of day schedule.

1.4.2.2. Summer Operation: The in-floor heating system is disabled when the outdoor air temperature is above 15 Deg C.

1.4.3. Occupied Mode

1.4.3.1. Overview: The air handling unit is operational and the VAV box will provide variable airflow to the space to maintain the space CO2 level at setpoint. The in-floor heating system provides heating to the space. The following describes the logical sequencing during the various scenarios.

1.4.3.2. Space Temperature Setpoint: The space temperature setpoint will be set to 23 Deg C. A bias of +/- 1 Deg C will be applied to the space temperature setpoint to allow for heating and cooling control. Setpoint is adjustable via the local VRF stat.

1.4.3.3. Airflow Setpoint: The airflow setpoint is automatically calculated between the minimum and maximum values to maintain the space temperature at setpoint as per the scenarios above. The minimum airflow setpoint is set to the lowest of either: 1) the minimum value shown in the VAV schedule or 2) the minimum value calculated by the CO2 algorithm.

1.4.3.4. CO2 Control: The CO2 algorithm will calculate the amount of air required maintain the space CO2 level at 1000 ppm. The program will adjust the minimum airflow setpoint to be the higher of either: 1) the minimum airflow setpoint, 2) the minimum amount for CO2 control.

1.4.3.5. In-Floor Heating HWS Temperature Setpoint: The setpoint is reset between the min/max value based on a comparison of space temperature to the space temperature heating setpoint. A step and wait algorithm will increase the setpoint by 1 Deg C every 30 minutes when the space temperature is more than 0.5 Deg C below the heating setpoint. The algorithm will decrease the setpoint by 0.5 Deg C every 30 minutes when the space temperature is more than 0.5 Deg C above the heating setpoint. Minimum setpoint is 20 Deg C, maximum setpoint is 26 Deg C (confirm setpoints on site).

1.4.3.6. Damper Modulation: The damper will modulate to maintain the airflow at setpoint.

1.4.3.7. In-Floor Heating Pump: Pump is enabled when the space temperature drops below the heating setpoint. Pump is disabled when the space temperature reaches the cooling setpoint and the outdoor air temperature is above 0 Deg C.

1.4.3.8. In-Floor Heating Valve: When the pump is running the valve will modulate to maintain the HWS-T at setpoint.

1.4.4. Unoccupied Mode

1.4.4.1. Overview: CO2 control is disabled when the AHU is not running. Temperature control is maintain by the in-floor heating system to the unoccupied setpoints. The space temperature heating setpoint will be set to 20 Deg C and the space temperature cooling setpoint will be set to 28 Deg C.

1.4.5. Integration and Optimization

1.4.5.1. Airflow Request: An airflow request is generated (starved box flag) when the VAV box is occupied, the damper is fully open, and the airflow is more than 10% of the cooling maximum airflow setpoint, below setpoint. The request is reset once the damper is less than 75% open. The airflow request is sent to the associated air handling unit to increase the static pressure setpoint. An accumulation counter is provided to indicate the number of hours the request is on.

1.4.5.2. The AHU status is shared over the network.

1.4.6. Critical Events

1.4.6.1. Extremely Low Space Temperature: The space temperature drops below 10 Deg C.

1.4.7. Urgent Events

1.4.7.1. None

1.4.8. Non-Urgent Events

1.4.8.1. Space Temperature Alarm: Space temperature is more than 2 Deg C above or below setpoint (10-minute delay).

1.4.8.2. Low Airflow Alarm: Airflow is less than 50% of setpoint (10-minute delay).

1.4.8.3. High CO2 Alarm: CO2 level is above 1500 ppm (10-minute delay).

1.4.8.4. Manual overrides are placed on the system (10-minute delay).

1.4.8.5. Pump Failure: Pump is commanded on, but status is off (30-second delay).

1.4.9. Maintenance Events

1.4.9.1. None

GOW HASTINGS ARCHITECTS

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	Issued for 90% CD SET	2026-03-06
1	Issued for 50% CD SET	2026-02-18

CentenniaL Story Arts Centre Relocation

941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

MECHANICAL EQUIPMENT CONTROLS

Project North

Scale: 1 : 1

Project Number: 25-120	
Drawn By: N.O	
Checked By: F.B	

M-501

AIR COOLED CONDENSING UNIT SCHEDULE (OWNER SUPPLIED)

TAG	MANUFACTURER	MODEL	REFRIGERANT	AMBIENT AIR TEMP. (F)	ESTIMATE TOTAL CHARGE (lbs)	CAPACITY (MBH)	ELECTRICAL			WEIGHT	DIMENSION	REMARKS
							MCA	MOP	VOLTAGE			
CU-1	DAIKIN	RXQ120XBYCA	R410A	95	53.67	114.332	18.2	25	575 3ph	727.5	48.9 x 66.7 x 30.2	PROVIDE AMBIENT COOLING KIT
CU-2	DAIKIN	RXYQ96XBYCA	R410A	95	-	-	16.8	20	575 3ph	727.5	48.9 x 66.7 x 30.2	RXYQ192XBYCA, 178 MBH , 95.1 lbs REFRIGERANT CHARGE, CONDENSER IS COMPRISED OF TWO INDEPENDENT MODULES, PROVIDE AMBIENT COOLING KIT
CU-2	DAIKIN	RXYQ96XBYCA	R410A	95	-	-	16.8	20	575 3ph	727.5	48.9 x 66.7 x 30.2	RXYQ192XBYCA, 178 MBH , 95.1 lbs REFRIGERANT CHARGE, CONDENSER IS COMPRISED OF TWO INDEPENDENT MODULES, PROVIDE AMBIENT COOLING KIT
CU-3	DAIKIN	RXTA48AAVJU	R32	95	16.69	44.3	29.4	30	208 - 230V 1ph	220.5	43.3 x 34.3 18.1	PROVIDE AMBIENT COOLING KIT
CU-4	DAIKIN	RXTA36AAVJU	R32	95	12.84	34.4	19.8	20	208 - 230V 1ph	220.5	43.3 x 34.3 18.1	PROVIDE AMBIENT COOLING KIT

EVAPORATOR SCHEDULE (OWNER SUPPLIED)

TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	COOLING		dBA	ELECTRICAL			CONDENSER	DIMENSION	WEIGHT
				TOTAL CAP. MBTUH	SENS. CAP. MBTUH		MCA	MOP	VOLTAGE			
VRF-L1-06	DAIKIN	FXSQ48TBVJU	1307	29,994	22,023	30 - 38	1.8	15	208 - 230V 1ph	CU-1	39 x 9.6 x 31.5	82
VRF-L1-08	DAIKIN	FXSQ24TBVJU	742	23,939	16,749	29 - 36	1.8	15	208 - 230V 1ph	CU-1	39 x 9.6 x 31.5	82
VRF-L1-08A	DAIKIN	FXFA36AAVJU	1253	36,003	25,138	32 - 44	1.6	15	208 - 230V 1ph	CU-4	33.1 x 11.3 x 33.1	58
VRF-L1-10	DAIKIN	FXSQ24TBVJU	742	29,994	22,023	30 - 38	1.8	15	208 - 230V 1ph	CU-1	39 x 9.6 x 31.5	82
VRF-L1-14	DAIKIN	FXSQ24TBVJU	742	29,994	22,023	30 - 38	1.8	15	208 - 230V 1ph	CU-1	39 x 9.6 x 31.5	82
VRF-L2-10.1	DAIKIN	FXSQ48TBVJU	1307	33,599	33,599	35 - 42	2.8	15	208 - 230V 1ph	CU-2	55.1 x 9.6 x 31.5	104
VRF-L2-10.2	DAIKIN	FXSQ48TBVJU	1307	33,599	33,599	35 - 42	2.8	15	208 - 230V 1ph	CU-2	55.1 x 9.6 x 31.5	104
VRF-L2-12.1	DAIKIN	FXSQ48TBVJU	1307	33,599	33,599	35 - 42	2.8	15	208 - 230V 1ph	CU-2	55.1 x 9.6 x 31.5	104
VRF-L2-12.2	DAIKIN	FXSQ48TBVJU	1307	33,599	33,599	35 - 42	2.8	15	208 - 230V 1ph	CU-2	55.1 x 9.6 x 31.5	104
VRF-L2-14	DAIKIN	FXSA24AAVJU	742	23,989	16,745	29 - 36	1.8	15	208 - 230V 1ph	CU-3	39.4 x 9.6 x 31.5	81.6
VRF-L2-16	DAIKIN	FXSA24AAVJU	742	23,989	16,745	29 - 36	1.8	15	208 - 230V 1ph	CU-3	39.4 x 9.6 x 31.5	81.6

EXISTING VARIABLE AIR VOLUME BOX SCHEDULE

TAG	UNIT SIZE	OPERATING AIRFLOW (CFM)	MIN	MAX	INLET SIZE (mm)	MANUFACTURER	MODEL	REMARKS
Ex. VAV-1	10	530	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
Ex. VAV-2	10	530	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
Ex. VAV-3	10	530	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
EX. VAV-4	8	600	400	1000	200	METALAIRE	TH-500-008	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
Ex. VAV-5	10	530	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
Ex. VAV-11	10	1200	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
Ex. VAV-12	10	650	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED

VARIABLE AIR VOLUME BOX SCHEDULE

TAG	UNIT SIZE	OPERATING AIRFLOW (CFM)	AIR RANGE CFM		INLET SIZE (mm)	MANUFACTURER	MODEL	REMARKS
			MIN	MAX				
VAV-L1-08B	8	515	400	1000	200	METALAIRE	TH-500-008	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
VAV-L1-08D	8	540	400	1000	200	METALAIRE	TH-500-008	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
VAV-L1-12	10	660	700	1500	251	METALAIRE	TH-500-010	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
VAV-L1-12B/C	6	310	200	600	149	METALAIRE	TH-500-006	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
VAV-L2-24A	6	450	200	600	149	METALAIRE	TH-500-006	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED
VAV-L1-12D	8	540	400	1000	200	METALAIRE	TH-500-008	BALANCE AIRFLOW THROUGH DAMPER IN VAV INLET AS PER OPERATION CFM PROVIDED

GRILLE, REGISTER AND DIFFUSER SCHEDULE

TAG	APPLICATION	NECK SIZE	MANUFACTURER AND MODEL (BASIS OF DESIGN: EH PRICE)
R-1	RETURN GRILLE	AS INDICATED	80 EGG CRATE GRILLE - 45 DEGREES
RC-1	SUPPLY DIFFUSER	AS INDICATED	ROUND CONE DIFFUSER, C/W MULTI DAMPER
SCD-1	SUPPLY DIFFUSER	AS INDICATED	SQAURE CONE DIFFUSER, (24in x 24in FACE SIZE) C/W MULTI-DAMPER

PIPE ACCESSORIES SCHEDULE

TAG	APPLICATION	MANUFACTURER	MODEL	REMARKS
TMV-1	THERMOSTATIC MIXING VALVE	ZURN	ZW1017XL	
BFP-1	BACKFLOW PREVENTER	ZURN	975XL3	

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	SANITARY CONNECTION	VENT CONECTION	REMARKS
HD-1	HUB DRAIN	ZURN	Z1870	50mm DIA.	--	C/W P-TRAP
HD-2	HUB DRAIN	ZURN	Z1870	50mm DIA.	--	C/W P-TRAP

GOW HASTINGS ARCHITECTS

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	Issued for 90% CD SET	2026-03-06
1	Issued for 50% CD SET	2026-02-18

CentenniaL Story Arts Centre Relocation

941 PROGRESS AVENUE
SCARBOUROUGH, ONTARIO M1G 3T8

MECHANICAL EQUIPMENT SCHEDULE

Project North

Scale:

Project Number: 25-120
Drawn By: N.O
Checked By: F.B

M-600

ELECTRICAL DRAWING LIST

DWG No.	DRAWING NAME
E-000	LEAD SHEET (DRAWING LIST, LEGEND & NOTES)
E-001	ELECTRICAL KEY PLAN
E-100	LEVEL 1 - POWER AND SYSTEMS PLAN
E-101	LEVEL 2 - POWER AND SYSTEMS PLAN
E-200	LEVEL 1 - LIGHTING AND FIRE ALARM PLAN
E-201	LEVEL 2 - LIGHTING AND FIRE ALARM PLAN
E-300	SINGLE LINE DIAGRAM
E-301	PANEL SCHEDULES (SHEET 1 OF 2)
E-302	PANEL SCHEDULES (SHEET 2 OF 2)
E-303	MECHANICAL EQUIPMENT WIRING SCHEDULE
E-400	ELECTRICAL DETAILS
ED-100	LEVEL 1 - POWER AND SYSTEMS DEMOLITION PLAN
ED-101	LEVEL 2 - POWER AND SYSTEMS DEMOLITION PLAN
ED-200	LEVEL 1 - LIGHTING AND FIRE ALARM PLAN
ED-300	SINGLE LINE DIAGRAM DEMOLITION

GENERAL NOTES

1. REVIEW ARCHITECTURAL, MECHANICAL, CIVIL, AND STRUCTURAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (OBC), ONTARIO ELECTRICAL SAFETY CODE (OESC) AND THE LOCAL AUTHORITIES REQUIREMENTS.
3. UPON THE COMPLETION OF THE CONTRACT, ISSUE A FORMAL CERTIFICATE INDICATING THE DATE OF COMPLETION OF WORK. REPAIR OR REPLACE ANY DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE (1) YEAR.
4. REFER TO AV DRAWING AV-011 FOR WIRING DETAILS AND PERFORMANCE SPECIFICATION.
5. ACOUSTIC WALLS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS. ANY WALL SO DEFINED SHALL INCORPORATE THE THE NOISE CONTROL MEASURES DESCRIBED BELOW:
   - CONDUIT PENETRATIONS THROUGH ACOUSTIC WALLS SHALL NOT TRANSMIT VIBRATION
   - ALL PENETRATIONS OF ACOUSTIC WALLS SHALL BE SEALED AS DESCRIBED IN THE SPECIFICATION AND IN THE DRAWINGS
   - WHERE PENETRATION THROUGH A WALL OR FLOOR REQUIRES BOTH FIRE AND ACOUSTIC SEALS, BOTH REQUIREMENTS SHALL BE SATISFIED. A FIRE SEAL DOES NOT NEGATE THE NEED FOR AN ACOUSTIC SEAL.
   - WHERE CONDUIT PENETRATES AN ACOUSTICAL WALL, THE OPENING SHALL BE OVERSIZED BY NO LESS THAN 25MM (1") ON ALL SIDES AND NO MORE THAN 50MM (2"). INSTALL THE CONDUIT IN SUCH A WAY THAT IT DOES NOT CONTACT THE WALL AT ANY POINT. PACK THE FULL DEPTH OF THE 25MM OPENING WITH GLASS FIBRE BATT OR MINERAL WOOL. SEAL THE OPENING ON BOTH SIDES WITH POLYETHYLENE BACKER ROD COVERED WITH NON-HARDENING CAULK OR NON-HARDENING, PERMANENTLY RESILIENT FIRE STOP.
   - THE TWO SIDES OF A DOUBLE WYTHE ACOUSTICAL WALL SHALL BE STRUCTURALLY INDEPENDENT OF EACH OTHER. NO RIGID CONNECTIONS ARE PERMITTED FROM ONE SIDE OF THE PARTITION TO THE OTHER. THIS INCLUDES ELECTRICAL CONDUIT. FLEXIBLE BX CONDUIT SHALL BE USED FOR ANY CABLE PASSING FROM ONE SIDE OF AN ACOUSTICAL WALL TO THE OTHER.
   - ALL SOUND AND COMMUNICATION RACKS SHALL BE MOUNTED ON NEOPRENE ISOLATORS.
   - ELECTRICAL FIXTURES ON OPPOSITE SIDES OF ALL GYPSUM BOARD/GYPSUM BOARD ACOUSTIC WALLS SHALL BE STAGGERED BY AT LEAST 800 MM.
   - ELECTRICAL BACK BOXES INSTALLED ON ONE SIDE OF AN ACOUSTIC WALL SHALL NOT COME IN CONTACT WITH THE OTHER WYTHE OF THE WALL, DIRECTLY OPPOSITE. IF THE GAP BETWEEN A BACK-BOX AND THE OPPOSITE WYTHE IS LESS THAN 15 MM IT SHALL BE FILLED WITH LOOSELY PACKED GLASS FIBRE BATT INSULATION. ALTERNAITIVELY, THE BACK BOX CAN BE ISOLATED WITH A 6 MM THICK PIECE OF CLOSED CELL NEOPRENE, GRADE SCE 41.

GENERAL NOTES - DEMOLITION

1. ELECTRICAL SYSTEMS SHOWN ON DEMOLITION PLANS ARE BASED ON INFORMATION OBTAINED FROM ORIGINAL CONSTRUCTION CONTRACT/TENDER DOCUMENTS. THESE DRAWINGS ARE NOT BASED ON 'AS-BUILT RECORD' OR ON EXHAUSTIVE FIELD MEASUREMENT AND ARE PROVIDED TO ASSIST THE CONTRACTOR IN DETERMINING THE EXTENT OF WORK REQUIRED. THE CONTRACTOR SHALL MAKE ALLOWANCE IN THEIR TENDER PRICE FOR THE REMOVAL OF ADDITIONAL ABANDONED SERVICES AND THE PROTECTION OF EXISTING SERVICES THAT MUST REMAIN. RECORD THE LOCATION OF ALL EXISTING SERVICES THAT REMAIN ON AS-BUILT RECORD DRAWINGS.

LEGEND - POWER SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	GFCI RECEPTACLE
	20A T-SLOT RECEPTACLE
	ISOLATED GROUND RECEPTACLE
	SINGLE RECEPTACLE
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	QUAD RECEPTACLE - FLOOR MOUNTED
	DUPLEX RECEPTACLE - CEILING MOUNTED
	TECHNICAL 20A RECEPTACLE (NEMA 5-20R)
	SINGLE RECEPTACLE CEILING (NEMA L5-20R)
	TECHNICAL SINGLE RECEPTACLE (NEMA L5-20R)
	DIRECT CONNECTION
	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	NON-FUSED DIRECT CONNECTION
	MOTOR CONNECTION (DISCONNECT BY ELECTRICAL)
	MOTOR CONNECTION (COMBINATION STARTER BY ELECTRICAL)
	MOTOR CONNECTION (UNIT MOUNTED DISCONNECT BY MECHANICAL)
P	JIFFY/PAC POLE
JB	JUNCTION BOX
T	CONTROL SWITCH
R	RELAY
	ELECTRICAL PANEL
	GROUND BAR
	LIGHTNING AIR TERMINAL
	GROUND ROD
	FURNITURE WHIP - POWER
	DUAL RECEPTACLE WITH USB POWER
PB	PULLBOX
	TRANSFORMER
BB	BACKBOX

LEGEND - SINGLE LINE DIAGRAM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	BREAKER (MCCB)
	FUSED DISCONNECT SWITCH
	SWITCH
	FUSE
	DRAWOUT BREAKER
M	METER SOCKET
	TRANSFORMER
	GENERATOR
DMM	DIGITAL MULTIMETER
	AUTOMATIC TRANSFER SWITCH (ATS)
LSI	BREAKER WITH LSI PROTECTION
LSIG	BREAKER WITH LSIG PROTECTION
SPD	SURGE PROTECTION DEVICE
PM	POWER METER

LEGEND - LIGHTING SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	2' X 2' FIXTURE
	2' X 4' FIXTURE
	LINEAR FIXTURE
	LINEAR FIXTURE - WALL MOUNTED
	POT LIGHT
	2 X 2 FIXTURE - EMERGENCY
	LINEAR FIXTURE - EMERGENCY
	POT LIGHT - EMERGENCY
	PENDENT - CEILING MOUNTED
	WALL PACK
	TRACK LIGHT
	HIGH BAY LIGHT
	TOGGLE SWITCH (SINGLE)
	TOGGLE SWITCH (DUAL)
	TOGGLE SWITCH (TRIPLE)
D	DIMMER SWITCH (SINGLE)
D	DIMMER SWITCH (DUAL)
D	DIMMER SWITCH (TRIPLE)
MS	MOTION SENSOR SWITCH - WALL
MS	MOTION SENSOR SWITCH - CEILING
PP	POWERPACK
	TIME CLOCK
	PHOTOCELL
LC1	LOAD CONTROLLER - TYPE 1
LC2	LOAD CONTROLLER - TYPE 2
LCE	LOAD CONTROLLER - EMERGENCY
	DAYLIGHT SENSOR
LCP	LIGHTING CONTROL PANEL
KP	LIGHTING CONTROL KEYPAD
KP	LIGHTING CONTROL KEYPAD - 6 BUTTON
B	MOTORIZED BLINDS CONTROL SWITCH
P	PROJECTOR SCREEN CONTROL SWITCH

LEGEND - ABBREVIATIONS

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
MTG	MOUNTING
ADO	AUTOMATIC DOOR OPENER
D/W	DISHWASHER
ER	EXISTING TO BE RELOCATED
EX	EXISTING TO REMAIN
F/R	REFRIGERATOR
GFI	GROUND FAULT INTERRUPT
HD	HAND DRYER
M/W	MICROWAVE
NL	NIGHT LIGHT
PTL	PUSH TO LOCK
PTO	PUSH TO OPEN
R	REMOVE
R/R	REMOVE AND REINSTALL
WP	WEATHER PROOF
C/H	COUNTER HEIGHT
PLB	PLUMBING TRANSFORMER
CT	ADULT CHANGE TABLE
UMR	UNIT MOUNTED RECEPTACLE
MD	MOTORIZED DAMPER
MDCP	MOTORIZED DAMPER CONTROL PANEL
PRJ	PROJECTOR

LEGEND - SECURITY SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
ML	MAGLOCK
CR	CARD READER
	PUSH BUTTON
	SECURITY PANEL
	SECURITY INTERCOM WITH CAMERA
	PIR MOTION DETECTOR
	SECURITY CAMERA

LEGEND - EMERGENCY SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	EXIT SIGN - SINGLE FACE - CEILING
	EXIT SIGN - SINGLE FACE - WALL
	EXIT SIGN - SINGLE FACE DIRECTIONAL - CEILING
	EXIT SIGN - DOUBLE FACE DIRECTIONAL - CEILING
	SINGLE REMOTE HEAD - CEILING
	DOUBLE REMOTE HEADS - CEILING
	SINGLE REMOTE HEAD - WALL
	DOUBLE REMOTE HEADS - WALL
	BATTERY PACK W/ DOUBLE REMOTE HEADS - WALL
	BATTERY PACK - WALL
	BATTERY PACK W/ DOUBLE REMOTE HEADS - CEILING
	EXIT SIGN SELF-POWERED W/ REMOTE HEADS - WALL

LEGEND - COMMUNICATIONS

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	DATA OUTLET
	TELEPHONE OUTLET
	DATA OUTLET - CEILING
	DATA OUTLET - FLOOR
	TELEPHONE AND DATA OUTLET
	COAXIAL OUTLET
	FURNITURE WHIP - DATA
	DIGITAL CLOCK
SP	PUBLIC ADDRESS SPEAKER - CEILING
CS	PUBLIC ADDRESS SPEAKER AND CALL SWITCH
PA	PUBLIC ADDRESS PAGING SPEAKER AND HANDSET
WAP	WIRELESS ACCESS POINT
	IT RACK - 2 POST
	IT RACK - 4 POST
	ELECTRICAL BACKBOARD

LEGEND - FIRE ALARM SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC. STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION
	BELL - WALL
	BELL AND STROBE - WALL
	HORN - WALL
	STROBE - CEILING
	STROBE - WALL
S	FIRE ALARM SPEAKER - CEILING
	FIRE ALARM SPEAKER AND STROBE- CEILING
	FIRE ALARM PULLSTATION
H	HORN AND STROBE - CEILING
	HORN AND STROBE - WALL
	SMOKE DETECTOR - CEILING
	DUCT SMOKE DETECTOR
CO	SMOKE DETECTOR W/CARBON MONOXIDE - CEILING
	HEAT DETECTOR - CEILING
CO	SMOKE ALARM W/CARBON MONOXIDE & STROBE
	SMOKE ALARM - CEILING
	CARBON MONOXIDE - CEILING
FS	FLOW SWITCH
PS	PRESSURE SWITCH
SV	SUPERVISORY VALVE
ISO	LINE ISOLATOR
EOL	END OF LINE RESISTOR
	DOOR HOLD OPEN
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR PANEL
F/S/P	FLOW SWITCH + SUPERVISED VALVE + PRESSURE SWITCH

FIXTURE SCHEDULE

NOTES:
1. CONTRACTOR AND FIXTURE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL PLASTER AND FINISHING FRAMES, MOUNTING HARDWARE AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING SCHEDULE.

TYPE	DESCRIPTION	WATTS	MTG
L1-B	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 10,000 LUMENS, 90 CRI, 3500K CAT NO: LPX-2-B-SP-F-F-S10FT-05-35-90-SL-V01-05-35-90-BW-V01-SB-SB-B04-1C-N-UNV-N-N-N-N-DC OR APPROVED EQUIVELANT	80-100	12.7
L1-B1	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 14,400 LUMENS, 90 CRI, 3500K CAT NO: LPX-2-B-SP-F-F-S18FT-05-35-90-SL-V01-03-35-90-BW-V01-SB-SB-B04-1C-N-UNV-N-N-N-N-DC	145-165	12.8
L1-W	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 8000 LUMENS, 90 CRI, 3500K CAT NO:LPX-2-B-SP-F-F-S8FT-05-35-90-SL-V01-05-35-90-BW-V01-SW-SW-W04-1C-N-UNV-N-N-N-N-DC	65-80	9
L1-W1	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 6400 LUMENS, 90 CRI, 3500K CAT NO: LPX-2-B-SP-F-F-S8FT-05-35-90-SL-V01-03-35-90-BW-V01-SW-SW-W04-1C-N-UNV-N-N-N-N-DC	55-70	9
L2	ALW LIGHTING LIGHTPLANE 2+ RECESSED T-GRID 500 LM/FT, 90CRI, 3500K CAT NO: LPX-2-R-GS-FN-S12FT-05-35-90-SL-V01-SW-N-UNV-N-N-N-DC LPX-2-R-GS-FN-S8FT-05-35-90-SL-V01-SW-N-UNV-N-N-N-DC LPX-2-R-GS-FN-S4FT-05-35-90-SL-V01-SW-N-UNV-N-N-N-DC	18-65	8.8
L2-A	ALW LIGHTING LIGHTPLANE 2+ RECESSED T-GRID 2800 LUMENS, 90 CRI, 3500K CAT NO:LPX-2-R-GS-FN-S4FT-07-35-90-SL-V01-SW-N-UNV-N-N-N-DC	30-35	9.5
L3-1	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 500 LM/FT DIRECT, 300 LM/FT INDIRECT, 90 CRI, 3500K CAT NO: LPX-2-B-SP-F-F- CUSTOM PATTERN-05-35-90-SL-V01-03-35-90-BW-V01-SW-SW-W04-2C-N-UNV-N-...	10W/FT	9
L3-2	ALW LIGHTING LIGHTPLANE 2+ SUSPENDED 8650 LUMENS, 90 CRI, 3500K CAT NO: LPX-2-D-[DIRECT ONLY]...	70-85	
L4	UTECH CAT NO: LLS-4-SK	TBD	9
L4-A	UTECH CAT NO:UTECH LLS-8-SK	TBD	8.8
L5	VEROZZA SENSE DOWNLIGHT 1300 LUMENS, 90 CRI, 3500K CAT NO: 3R-F-13L-WF-35-WH-FR + VEROZZA TRIM- SEN-3R-SF-WH + VEROZZA HOUSING SEN-3R-SF-13L-NC(NEW CONSTRUCTION...	12-15	9.8
L6	VEROZZA MUSE ART TRACKHEAD 1300 LUMENS, 90 CRI, 3500K CAT NO: MUSE-A-HT-L13-WF-935-WH-WH-PD120V-HC ...	15-18	

EMERGENCY LIGHTING SCHEDULE

TYPE	DESCRIPTION	LAMPS	MTG
E1	EDGELIT RUNNING MAN EXIT SIGN CAT NO. RMES0-BA-UDC	LED	CEILING MOUNT
BU1	BATTERY UNIT WITH HEADS: STANPRO CAT: SLA 06 018-2M-SLA-WH-AT	LED	WALL MOUNT

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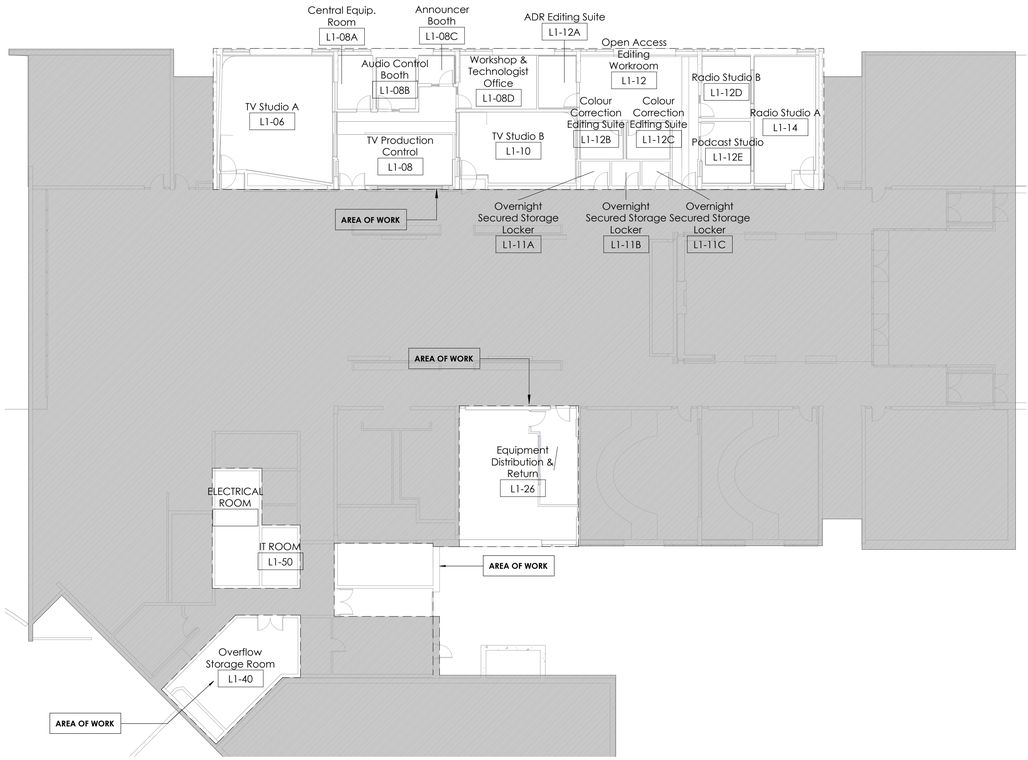
LEAD SHEET (DRAWING LIST, LEGEND & NOTES)

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

E-000



1 / E-001 LEVEL 1 - KEY PLAN
1 : 200

2 / E-001 LEVEL 2 - KEY PLAN
1 : 200

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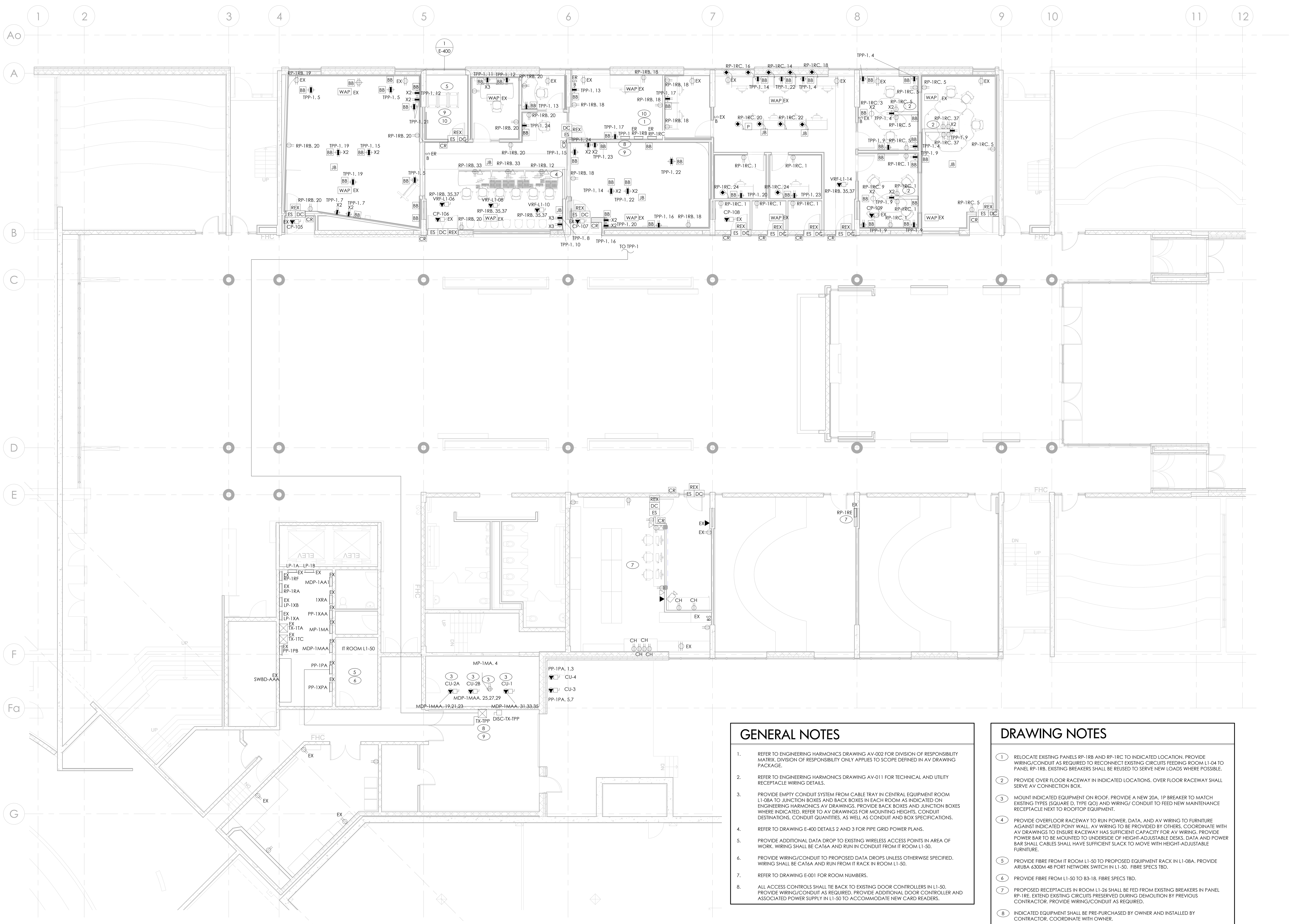
ELECTRICAL KEY PLAN

Project North

Scale: 1 : 200

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

E-001



LEVEL 1 - POWER AND SYSTEMS PLAN

1
E-100

1 : 100

GENERAL NOTES

1. REFER TO ENGINEERING HARMONICS DRAWING AV-002 FOR DIVISION OF RESPONSIBILITY MATRIX. DIVISION OF RESPONSIBILITY ONLY APPLIES TO SCOPE DEFINED IN AV DRAWING PACKAGE.
2. REFER TO ENGINEERING HARMONICS DRAWING AV-011 FOR TECHNICAL AND UTILITY RECEPTACLE WIRING DETAILS.
3. PROVIDE EMPTY CONDUIT SYSTEM FROM CABLE TRAY IN CENTRAL EQUIPMENT ROOM L1-08A TO JUNCTION BOXES AND BACK BOXES IN EACH ROOM AS INDICATED ON ENGINEERING HARMONICS AV DRAWINGS. PROVIDE BACK BOXES AND JUNCTION BOXES WHERE INDICATED. REFER TO AV DRAWINGS FOR MOUNTING HEIGHTS, CONDUIT DESTINATIONS, CONDUIT QUANTITIES, AS WELL AS CONDUIT AND BOX SPECIFICATIONS.
4. REFER TO DRAWING E-400 DETAILS 2 AND 3 FOR PIPE GRID POWER PLANS.
5. PROVIDE ADDITIONAL DATA DROP TO EXISTING WIRELESS ACCESS POINTS IN AREA OF WORK. WIRING SHALL BE CAT6A AND RUN IN CONDUIT FROM IT ROOM L1-50.
6. PROVIDE WIRING/CONDUIT TO PROPOSED DATA DROPS UNLESS OTHERWISE SPECIFIED. WIRING SHALL BE CAT6A AND RUN FROM IT RACK IN ROOM L1-50.
7. REFER TO DRAWING E-001 FOR ROOM NUMBERS.
8. ALL ACCESS CONTROLS SHALL TIE BACK TO EXISTING DOOR CONTROLLERS IN L1-50. PROVIDE WIRING/CONDUIT AS REQUIRED. PROVIDE ADDITIONAL DOOR CONTROLLER AND ASSOCIATED POWER SUPPLY IN L1-50 TO ACCOMMODATE NEW CARD READERS.

DRAWING NOTES

(1) RELOCATE EXISTING PANELS RP-1RB AND RP-1RC TO INDICATED LOCATION. PROVIDE WIRING/CONDUIT AS REQUIRED TO RECONNECT EXISTING CIRCUITS FEEDING ROOM L1-04 TO PANEL RP-1RB. EXISTING BREAKERS SHALL BE REUSED TO SERVE NEW LOADS WHERE POSSIBLE.

(2) PROVIDE OVER FLOOR RACEWAY IN INDICATED LOCATIONS. OVER FLOOR RACEWAY SHALL SERVE AV CONNECTION BOX.

(3) MOUNT INDICATED EQUIPMENT ON ROOF. PROVIDE A NEW 20A, 1P BREAKER TO MATCH EXISTING TYPES (SQUARE D, TYPE QO) AND WIRING/ CONDUIT TO FEED NEW MAINTENANCE RECEPTACLE NEXT TO ROOFTOP EQUIPMENT.

(4) PROVIDE OVERFLOOR RACEWAY TO RUN POWER, DATA, AND AV WIRING TO FURNITURE AGAINST INDICATED PONY WALL. AV WIRING TO BE PROVIDED BY OTHERS, COORDINATE WITH AV DRAWINGS TO ENSURE RACEWAY HAS SUFFICIENT CAPACITY FOR AV WIRING. PROVIDE POWER BAR TO BE MOUNTED TO UNDERSIDE OF HEIGHT-ADJUSTABLE DESKS. DATA AND POWER BAR SHALL CABLES SHALL HAVE SUFFICIENT SLACK TO MOVE WITH HEIGHT-ADJUSTABLE FURNITURE.

(5) PROVIDE FIBRE FROM IT ROOM L1-50 TO PROPOSED EQUIPMENT RACK IN L1-08A. PROVIDE ARUBA 6300M 48 PORT NETWORK SWITCH IN L1-50. FIBRE SPECS TBD.

(6) PROVIDE FIBRE FROM L1-50 TO B3-18. FIBRE SPECS TBD.

(7) PROPOSED RECEPTACLES IN ROOM L1-26 SHALL BE FED FROM EXISTING BREAKERS IN PANEL RP-1RE. EXTEND EXISTING CIRCUITS PRESERVED DURING DEMOLITION BY PREVIOUS CONTRACTOR. PROVIDE WIRING/CONDUIT AS REQUIRED.

(8) INDICATED EQUIPMENT SHALL BE PRE-PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. COORDINATE WITH OWNER.

(9) PROVIDE TECHNICAL GROUND BARS IN INDICATED LOCATIONS. REFER TO DRAWING AV-011 IN AV DRAWINGS FOR CONNECTION DETAILS. ALL TECHNICAL GROUND BARS SHALL TIE BACK TO BOND POINT ON TX-TPP.

(10) PROVIDE GROUND CONNECTION FROM GROUND BUS ON PANEL RP-1RB TO HIGH-STATIC FLOORING COPPER STRIPS IN INDICATED ROOMS.

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LEVEL 1 - POWER AND SYSTEMS PLAN

Project North

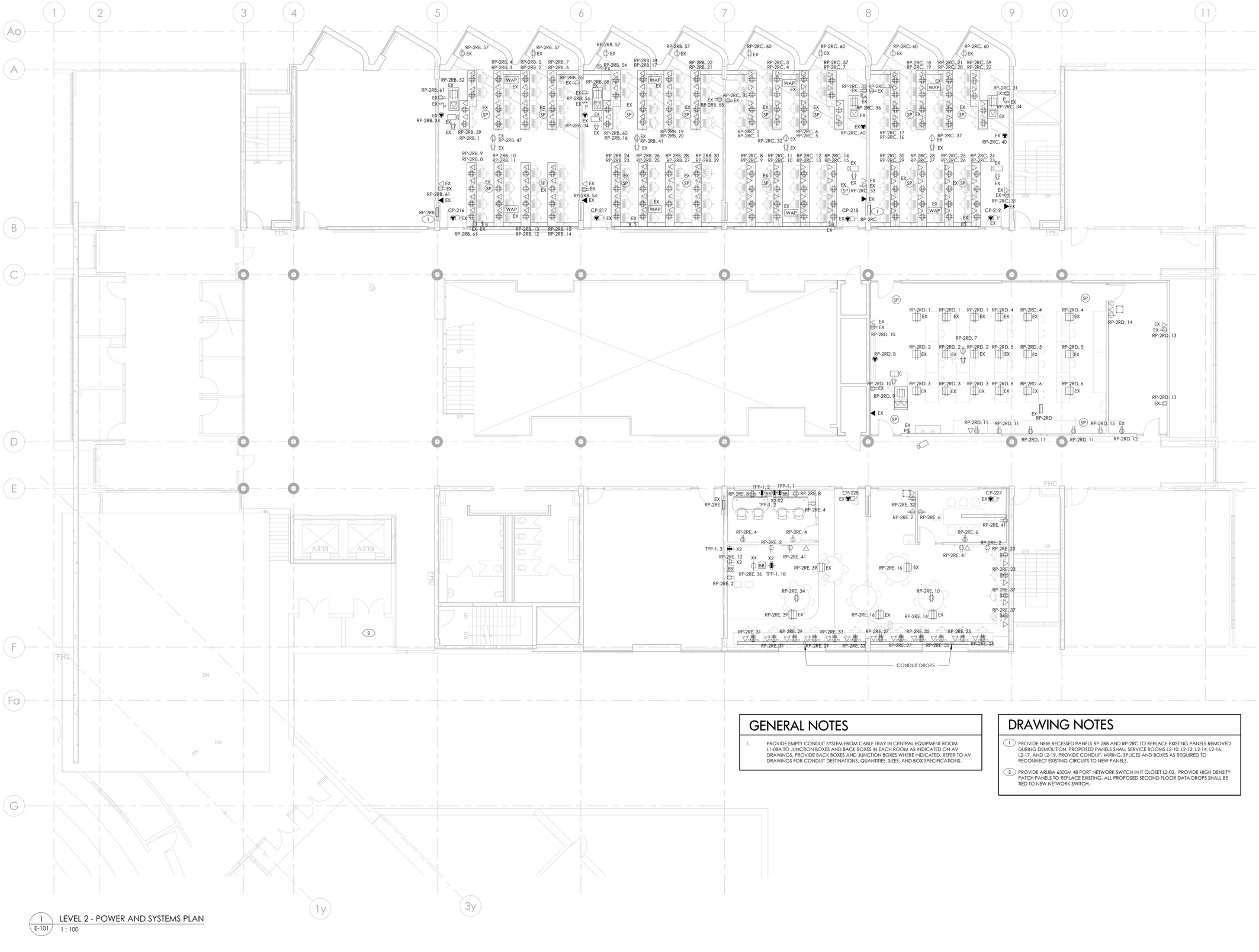
Scale: 1 : 100

Project Number: 25-120

Drawn By: P.O.

Checked By: N.A.

E-100



GENERAL NOTES

1. PROVIDE EMPTY CONDUIT SYSTEM FROM CABLE TRAY IN CENTRAL EQUIPMENT ROOM L1-08A TO JUNCTION BOXES AND BACK BOXES IN EACH ROOM AS INDICATED ON AV DRAWINGS. PROVIDE BACK BOXES AND JUNCTION BOXES WHERE INDICATED. REFER TO AV DRAWINGS FOR CONDUIT DESTINATIONS, QUANTITIES, SIZES, AND BOX SPECIFICATIONS.

DRAWING NOTES

(1) PROVIDE NEW RECESSED PANELS RP-2RB AND RP-2RC TO REPLACE EXISTING PANELS REMOVED DURING DEMOLITION. PROPOSED PANELS SHALL SERVICE ROOMS L2-10, L2-12, L2-14, L2-16, L2-17, AND L2-19. PROVIDE CONDUIT, WIRING, SPLICES AND BOXES AS REQUIRED TO RECONNECT EXISTING CIRCUITS TO NEW PANELS.

(2) PROVIDE ARUBA 6300M 48 PORT NETWORK SWITCH IN IT CLOSET L2-02. PROVIDE HIGH DENSITY PATCH PANELS TO REPLACE EXISTING. ALL PROPOSED SECOND FLOOR DATA DROPS SHALL BE TIED TO NEW NETWORK SWITCH.

1 / E-101 LEVEL 2 - POWER AND SYSTEMS PLAN
1 : 100

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LEVEL 2 - POWER AND SYSTEMS PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
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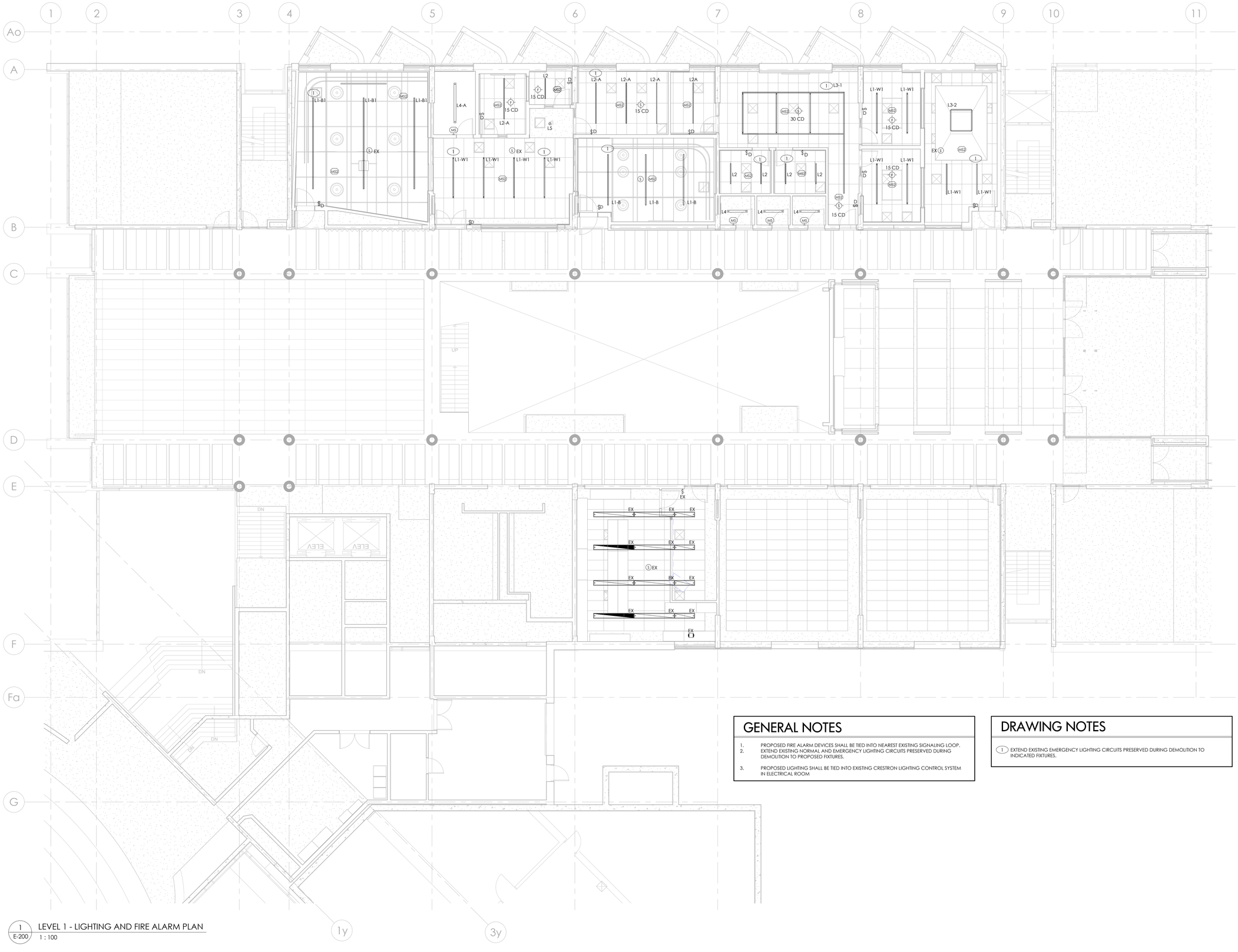
E-101



GENERAL NOTES

1. PROPOSED FIRE ALARM DEVICES SHALL BE TIED INTO NEAREST EXISTING SIGNALING LOOP.
2. EXTEND EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS PRESERVED DURING DEMOLITION TO PROPOSED FIXTURES.
3. PROPOSED LIGHTING SHALL BE TIED INTO EXISTING CRESTRON LIGHTING CONTROL SYSTEM IN ELECTRICAL ROOM

DRAWING NOTES

(1) EXTEND EXISTING EMERGENCY LIGHTING CIRCUITS PRESERVED DURING DEMOLITION TO INDICATED FIXTURES.

1 / E-200 LEVEL 1 - LIGHTING AND FIRE ALARM PLAN
1 : 100

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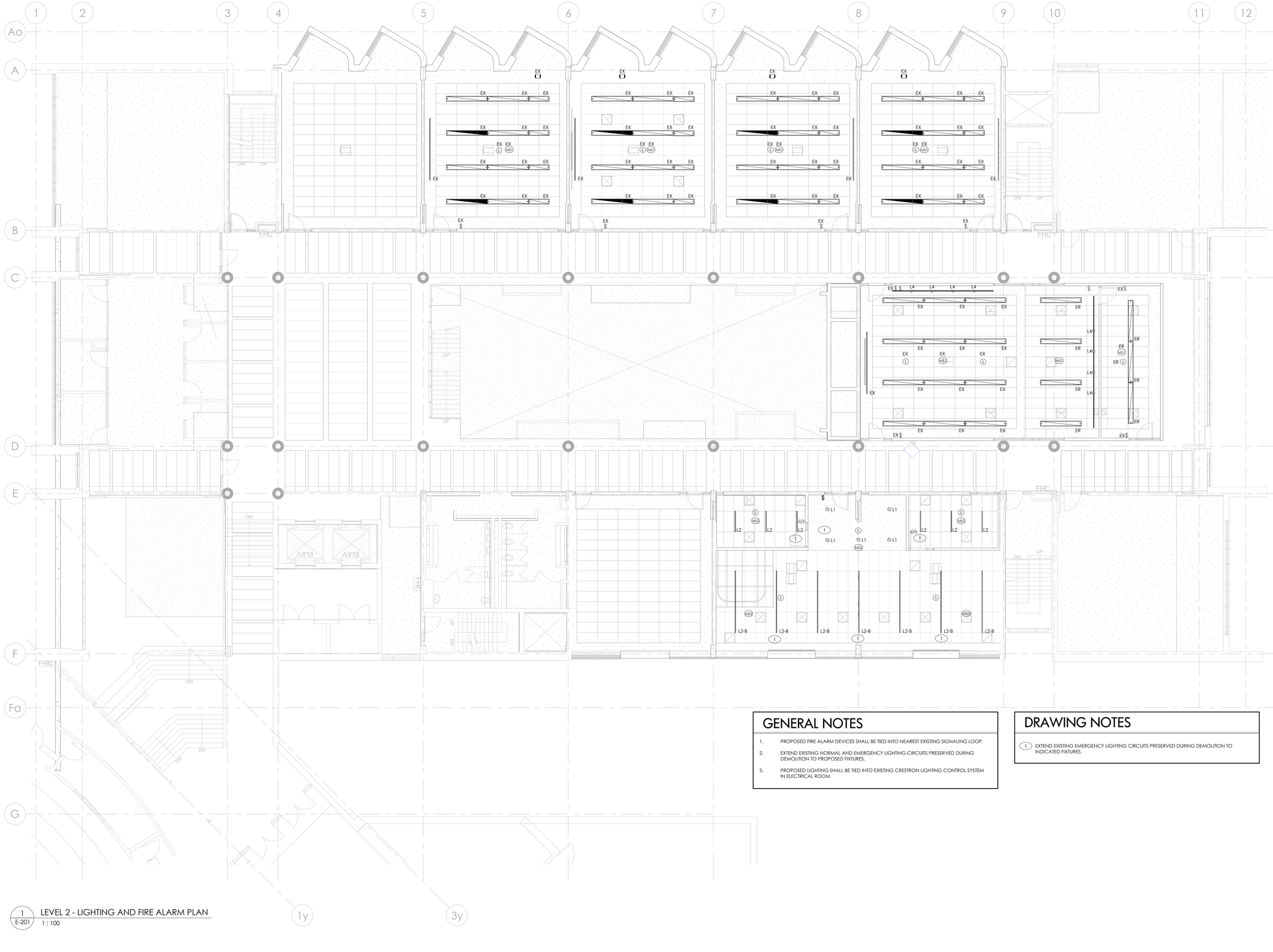
LEVEL 1 - LIGHTING AND FIRE ALARM PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

E-200



GENERAL NOTES

1. PROPOSED FIRE ALARM DEVICES SHALL BE TIED INTO NEAREST EXISTING SIGNALING LOOP.
2. EXTEND EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS PRESERVED DURING DEMOLITION TO PROPOSED FIXTURES.
3. PROPOSED LIGHTING SHALL BE TIED INTO EXISTING CRESTRON LIGHTING CONTROL SYSTEM IN ELECTRICAL ROOM

DRAWING NOTES

(1) EXTEND EXISTING EMERGENCY LIGHTING CIRCUITS PRESERVED DURING DEMOLITION TO INDICATED FIXTURES.

1 / E-201 LEVEL 2 - LIGHTING AND FIRE ALARM PLAN
1 : 100

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No.	ISSUED/REVISED	DATE
5	ISSUED FOR TENDER	03/22/2026
4	ISSUED FOR 90% CD	03/09/2026
3	ISSUED FOR 50% CD	02/20/26
2	ISSUED FOR PROGRESS REVIEW	02/09/26
1	ISSUED FOR DD SIGN OFF	01/23/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

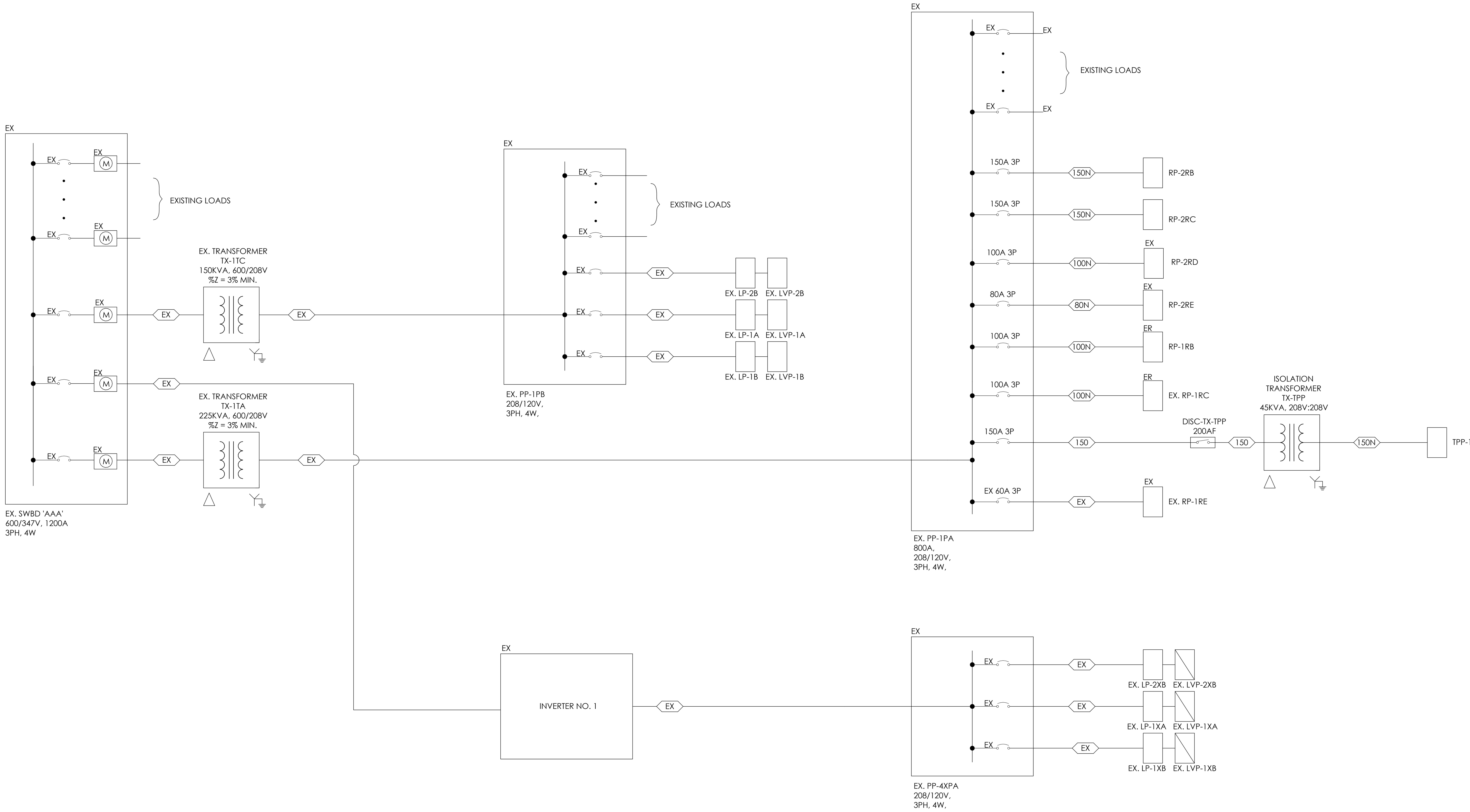
LEVEL 2 - LIGHTING AND FIRE ALARM PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

E-201



SINGLE-LINE DIAGRAM

N.T.S.

WIRING SCHEDULE

TAG	DESCRIPTION
EX	EXISTING WIRING TO REMAIN
80N	4 #4AWG R90 CU + #8 BOND IN 1.25" CONDUIT
100N	4 #3AWG R90 CU + #6 BOND IN 1.25" CONDUIT
150	4 #1/0AWG R90 CU + #6 BOND IN 1.5" CONDUIT
150N	4 #1/0AWG R90 CU + #6 BOND IN 2" CONDUIT

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR 90% CD	03/09/2026
1	ISSUED FOR 50% CD	02/20/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

SINGLE LINE DIAGRAM

Project North

Scale: 1 : 1

Project Number:
25-120

Drawn By:
P.O.

Checked By:
N.A.

E-300

PANEL: TPP-1

VOLTAGE: 208/120V
AMPERAGE: 150A
kA RATING: 10KAIC MIN.

PANEL LOCATION: L1-08D
FED FROM: TX-TPP
WIRES: 4
PHASE: 3

MAINS TYPE: MCB
ENCLOSURE: TYPE 2
MOUNTING: SURFACE

NOTES: PROVIDE ISOLATED GROUND BUS IN PANEL.
PROVIDE 150A MCB

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	RECEPTACLE	20 A	1	1000...	1250...					1	20 A	RECEPTACLE	2
3	RECEPTACLE	20 A	1			1000...	1290...			1	20 A	RECEPTACLE	4
5	RECEPTACLE	20 A	1					1500...	1750...	1	20 A	L1-08A CABLE TRAY TWISTLOCK RECPT.	6
7	RECEPTACLE	20 A	1	1430...	1500...					1	20 A	RECEPTACLE	8
9	RECEPTACLE	20 A	1			1400...	1500...			1	20 A	RECEPTACLE	10
11	RECEPTACLE	20 A	1					1500...	1500...	1	20 A	RECEPTACLE	12
13	RECEPTACLE	20 A	1	1500...	1500...					1	20 A	RECEPTACLE	14
15	RECEPTACLE	20 A	1			1500...	1500...			1	20 A	RECEPTACLE	16
17	RECEPTACLE	20 A	1					1500...	1750...	1	15 A	RECEPTACLE	18
19	RECEPTACLE	20 A	1	1750...	1750...					1	20 A	RECEPTACLE	20
21	RECEPTACLE	20 A	1			1750...	1750...			1	20 A	RECEPTACLE	22
23	RECEPTACLE	20 A	1					1750...	1750...	1	20 A	RECEPTACLE	24
25	L1-08A CABLE TRAY TWISTLOCK RECPT.	20 A	1	1750...	1750...					1	20 A	L1-08A CABLE TRAY TWISTLOCK RECPT.	26
27	L1-08A CABLE TRAY TWISTLOCK RECPT.	20 A	1			1750...	1750...			1	20 A	L1-08A CABLE TRAY TWISTLOCK RECPT.	28
29	L1-08A CABLE TRAY TWISTLOCK RECPT.	20 A	1					1750...	0 VA	1	20 A	SPARE	30
31	SPARE	15 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	15 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	15 A	1					0 VA	0 VA	1	20 A	SPARE	36
37													38
39													40
41													42
		TOTAL LOAD:		15180 VA		15190 VA		14750 VA					
		TOTAL AMPS:		127 A		127 A		123 A					

PANEL: RP-1RB

VOLTAGE: 208/120V
AMPERAGE: 225
kA RATING:

PANEL LOCATION: L1-08D
FED FROM: PP-1PA
WIRES: 4
PHASE: 3

MAINS TYPE: MLO
ENCLOSURE: TYPE 2
MOUNTING: SURFACE

NOTES: REUSE EXISTING BREAKERS

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	EX. L104 5TH ROW REC	15 A	1	0 VA	0 VA					1	15 A	SPARE	2
3	EX. L104 4TH ROW REC	15 A	1			0 VA	0 VA			1	15 A	SPARE	4
5	EX. L104 3RD ROW REC	15 A	1					0 VA	0 VA	1	15 A	SPARE	6
7	EX. L104 2ND ROW REC	15 A	1	0 VA	0 VA					1	15 A	SPARE	8
9	EX. L104 1ST ROW REC	15 A	1			0 VA	0 VA			1	15 A	SPARE	10
11	EX. L104, L106, L108 REC	20 A	1					0 VA	180 VA	1	20 A	RECEPTACLE	12
13	EX. L104 PROJECTOR SCREEN	15 A	1	0 VA	0 VA					1	15 A	SPARE	14
15	EX. L104 PROJECTOR	15 A	1			0 VA	0 VA			1	15 A	SPARE	16
17	EX. L104 PODIUM	15 A	1					0 VA	1260...	1	15 A	RECEPTACLE	18
19	RECEPTACLE	15 A	1	720 VA	1440...					1	15 A	RECEPTACLES	20
21	EX. L104, L106, L108 OPERABLE WINDOES	15 A	1			0 VA	0 VA			1	15 A	SPARE	22
23	SPARE	15 A	1					0 VA	0 VA	1	15 A	SPARE	24
25	SPARE	15 A	1	0 VA	0 VA					1	15 A	SPARE	26
27	SPARE	15 A	1			0 VA	0 VA			1	15 A	SPARE	28
29	SPARE	15 A	1					0 VA	0 VA	1	15 A	SPARE	30
31	SPARE	15 A	1	0 VA	0 VA					1	15 A	SPARE	32
33	RECEPTACLE	20 A	1			360 VA	0 VA			1	15 A	SPARE	34
35	VRF-L1-06, 08, 08A, 10, 14	15 A	2					914 VA	0 VA	1	15 A	SPARE	36
37				914 VA	0 VA								38
39							0 VA			3	60 A	TVSS (3P)	40
41									0 VA				42
		TOTAL LOAD:		3074 VA		360 VA		2354 VA					
		TOTAL AMPS:		28 A		3 A		22 A					

PANEL: RP-1RC

VOLTAGE: 208/120V
AMPERAGE: 225
kA RATING:

PANEL LOCATION: L1-08D
FED FROM: PP-1PA
WIRES: 4
PHASE: 3

MAINS TYPE: MLO
ENCLOSURE: TYPE 2
MOUNTING: SURFACE

NOTES: REUSE EXISTING BREAKERS

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	RECEPTACLE	15 A	1	1620...	0 VA					1	15 A	SPARE	2
3	RECEPTACLE	20 A	1			1000...	0 VA			1	15 A	SPARE	4
5	RECEPTACLE	15 A	1					1260...	0 VA	1	15 A	SPARE	6
7	SPARE	15 A	1	0 VA	0 VA					1	15 A	SPARE	8
9	RECEPTACLE	20 A	1			1000...	0 VA			1	15 A	SPARE	10
11	SPARE	15 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	15 A	1	0 VA	180 VA					1	15 A	FURNITURE WHIPS	14
15	SPARE	20 A	1			0 VA	360 VA			1	15 A	FURNITURE WHIPS	16
17	EX. MOTORIZED BLINDS	15 A	1					0 VA	180 VA	1	15 A	FURNITURE WHIPS	18
19	EX. OPERABLE WINDOWS	15 A	1	0 VA	360 VA					1	15 A	FURNITURE WHIPS	20
21	SPARE	15 A	1			0 VA	360 VA			1	15 A	FURNITURE WHIPS	22
23	SPARE	15 A	1					0 VA	360 VA	1	15 A	FURNITURE WHIPS	24
25	SPARE	15 A	1	0 VA	0 VA					1	15 A	SPARE	26
27	SPARE	15 A	1			0 VA	0 VA			1	15 A	SPARE	28
29	SPARE	15 A	1					0 VA	0 VA	1	15 A	SPARE	30
31	SPARE	15 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	15 A	1			0 VA	0 VA			1	15 A	SPARE	34
35	SPARE	15 A	1					0 VA	0 VA	1	15 A	SPARE	36
37	RECEPTACLE	15 A	1	720 VA	0 VA								38
39							0 VA			3	60 A	TVSS (3P)	40
41									0 VA				42
		TOTAL LOAD:		2880 VA		2720 VA		1800 VA					
		TOTAL AMPS:		25 A		24 A		15 A					

PANEL: RP-2RB

VOLTAGE: 208/120V
AMPERAGE: 225A
kA RATING: 10KAIC MIN

PANEL LOCATION: L2-16
FED FROM: PP-1PA
WIRES: 4
PHASE: 3

MAINS TYPE: MLO
ENCLOSURE: TYPE 2
MOUNTING: SURFACE

NOTES: PROVIDE INTERNAL SURGE PROTECTOR
PROVIDE NEW BREAKERS TO FEED EXISTING LOADS

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	L2-10 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-10 PC RECEPTACLES	2
3	L2-10 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-10 PC RECEPTACLES	4
5	L2-10 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-10 PC RECEPTACLES	6
7	L2-10 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-10 PC RECEPTACLES	8
9	L2-10 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-10 PC RECEPTACLES	10
11	L2-10 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-10 PC RECEPTACLES	12
13	L2-10 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-10 PC RECEPTACLES	14
15	L2-10 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-12 PC RECEPTACLES	16
17	L2-12 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-12 PC RECEPTACLES	18
19	L2-12 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-12 PC RECEPTACLES	20
21	L2-12 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-12 PC RECEPTACLES	22
23	L2-12 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-12 PC RECEPTACLES	24
25	L2-12 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-12 PC RECEPTACLES	26
27	L2-12 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-12 PC RECEPTACLES	28
29	L2-12 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-12 PC RECEPTACLES	30
31	EX L2-08 EAST RECEPTACLES	15 A	1	0 VA	0 VA					1	15 A	SPARE	32
33	EX L2-08 EAST RECEPTACLES	15 A	1			0 VA	264 VA			1	15 A	EX L2-08, L2-10, L2-12 PROJECTOR SCREENS	34
35	EX L2-08 EAST RECEPTACLES	15 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	EX L2-08 EAST RECEPTACLES	15 A	1	0 VA	0 VA					1	20 A	EX L2-08 FLOOR BOXES	38
39	EX L2-08 T-SLOT RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	EX L2-08 FLOOR BOXES	40
41	EX L2-12 PROJECTOR	15 A	1					180 VA	0 VA	1	20 A	EX L2-08 FLOOR BOXES	42
43	EX L2-08 PROJECTOR	15 A	1	0 VA	0 VA					1	15 A	SPARE	44
45	EX L2-08 PODIUM	20 A	1			0 VA							46
47	EX L2-10 PROJECTOR	15 A	1					180 VA	0 VA	1	20 A	SPARE	48
49	EX L2-08 NORTH RECEPTACLES	15 A	1	0 VA	0 VA					1	15 A	SPARE	50
51	EX L2-08, L2-10, L2-12 OPERABLE WINDOW	15 A	1			0 VA	180 VA			1	20 A	L2-10 PODIUM RECEPTACLE	52
53	EX A.L.D.	15 A	1					0 VA	540 VA	1	15 A	L2-12 WEST WALL RECEPT.S	54
55	L2-10 AND L2-12 RECEPTACLES	20 A	1	360 VA	0 VA					1	15 A	SPARE	56
57	EX L2-08, L2-10, L2-12 MOTORIZED BLINDS	15 A	1			720 VA	180 VA			1	20 A	L2-12 PODIUM RECEPTACLE	58
59	L2-10 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-12 PC RECEPTACLES	60
61	L2-10 WEST WALL RECEPT.S	15 A	1	540 VA									62
63													64
65													66
67					0 VA								68
69							0 VA			3	60 A	SPD	70
71									0 VA				72
		TOTAL LOAD:		20174 VA		20618 VA		24029 VA					
		TOTAL AMPS:		168 A		172 A		201 A					

PANEL: RP-2RC

VOLTAGE: 208/120V
AMPERAGE: 225A
kA RATING: 10 KAIC MIN

PANEL LOCATION: L2-10
FED FROM: PP-1PA
WIRES: 4
PHASE: 3

MAINS TYPE: MLO
ENCLOSURE: TYPE 2
MOUNTING: SURFACE

NOTES: PROVIDE INTERNAL SURGE PROTECTOR
PROVIDE NEW BREAKERS TO FEED EXISTING LOADS

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	L2-14 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-14 PC RECEPTACLES	2
3	L2-14 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-14 PC RECEPTACLES	4
5	L2-14 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-14 PC RECEPTACLES	6
7	L2-14 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-14 PC RECEPTACLES	8
9	L2-14 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-14 PC RECEPTACLES	10
11	L2-14 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-14 PC RECEPTACLES	12
13	L2-14 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-14 PC RECEPTACLES	14
15	L2-14 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-16 PC RECEPTACLES	16
17	L2-16 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-16 PC RECEPTACLES	18
19	L2-16 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-16 PC RECEPTACLES	20
21	L2-16 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-16 PC RECEPTACLES	22
23	L2-16 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-16 PC RECEPTACLES	24
25	L2-16 PC RECEPTACLES	20 A	1	1927...	1927...					1	20 A	L2-16 PC RECEPTACLES	26
27	L2-16 PC RECEPTACLES	20 A	1			1927...	1927...			1	20 A	L2-16 PC RECEPTACLES	28
29	L2-16 PC RECEPTACLES	20 A	1					1927...	1927...	1	20 A	L2-16 PC RECEPTACLES	30
31	EX L2-16 WALL REC.	15 A	1	360 VA	180 VA					1	15 A	EX L2-14 PROJECTOR	32
33	EX L2-14 WALL REC.	15 A	1			360 VA	180 VA			1	20 A	EX L2-16 PODIUM	34
35	EX L2-14, L2-16, L2-18 T-SLOT RECEPTACLES	20 A	1					360 VA	180 VA	1	20 A	EX L2-14 PODIUM	36
37	EX L2-16 PROJECTOR	15 A	1	180 VA	0 VA					1	20 A	EX L2-14, L2-16, L2-18 OPERABLE WINDOW	38
39						264 VA				1	15 A	EX L2-14, L2-16, L2-18 PROJECTOR SCREEN	40
41	SPARE	15 A	1					0 VA	0 VA	1	15 A	EX L2-18 MOTORIZED BLINDS	42
43	SPARE	15 A	1	0 VA	0 VA					1	15 A	EX L2-20 FLOOR BOX	44
45	SPARE	15 A	1			0 VA	0 VA			1	20 A	EX L2-18 FLOOR BOXES	46
47	SPARE	15 A	1					0 VA	0 VA	1	20 A	EX L2-18 FLOOR BOXES	48
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	EX L2-18 FLOOR BOXES	50
51	SPARE	20 A	1			0 VA	0 VA			1	20 A	EX L2-18 FLOOR BOXES	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	EX L2-18 FLOOR BOXES	54
55	SPARE	20 A	1	0 VA	0 VA					1	15 A	EX L2-18 PROJECTOR	56
57	L2-14 PC RECEPTACLES	20 A	1			1927...	0 VA			1	20 A	EX L2-18 PODIUM	58
59	L2-16 PC RECEPTACLES	20 A	1					1927...	720 VA	1	15 A	EX L2-14, L2-16 MOTORIZED BLINDS	60
61													62
63													64
65													66
67					0 VA								68
69							0 VA			3	60 A	SPD	70
71									0 VA				72
		TOTAL LOAD:		19994 VA		22005 VA		22461 VA					
		TOTAL AMPS:		167 A		186 A		190 A					

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR EQUIPMENT PRE-ORDER	03/19/2026
1	ISSUED FOR 90% CD	03/09/2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

PANEL SCHEDULES (SHEET 1 OF 2)

Project North

Scale:

Project Number: 25-120
Drawn By: P.O.
Checked By: N.A.

E-301

PANEL: RP-2RE

VOLTAGE: 208/120V
AMPERAGE: 225A
kA RATING: 10 KAIC MIN

PANEL LOCATION:
FED FROM: PP-1PA
WIRES: 4
PHASE: 3

NOTES: PROVIDE ALL BREAKERS NOT HALFTONED
EX PANEL SQUARE D NQ PANEL WITH QO BREAKERS

MAINS TYPE: MLO
ENCLOSURE: TYPE 2
MOUNTING: SURFACE MOUNT

CCT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CCT
1	L2-26 FLOOR BOX	15 A	1	0 VA	720 VA					1	15 A	L2-24 GENERAL REC.	2
3	L2-26 FLOOR BOX	15 A	1			0 VA	540 VA			1	15 A	L2-24A GENERAL REC.	4
5	L2-26 FLOOR BOX	15 A	1					0 VA	360 VA	1	15 A	L2-24B GENERAL REC.	6
7	L2-26 WALL REC.	15 A	1	0 VA	360 VA					1	15 A	L2-24A DESKS	8
9	L2-24, L2-26 REC.	20 A	1			0 VA	180 VA			1	15 A	L2-24 EAST PROJECTOR	10
11	L2-24, L2-26 PROJ. SCRN.	15 A	1					0 VA	180 VA	1	20 A	L2-24 REC.	12
13	L2-26 PROJECTOR	15 A	1	0 VA	0 VA					1	15 A	SPARE	14
15	L2-26 PODIUM	20 A	1			0 VA	540 VA			1	15 A	L2-24 FLOOR BOXES	16
17	L2-24, L2-26 MTRZD BLINDS	15 A	1					0 VA					18
19	L2-24, L2-26 OPRBLE WIND.	15 A	1	0 VA									20
21	L2-24, L2-26 MTRZD BLINDS	15 A	1			0 VA							22
23	L2-24 PC RECEPTACLES	15 A	1					360 VA					24
25	L2-24 PC RECEPTACLES	15 A	1	360 VA									26
27	L2-24 PC RECEPTACLES	15 A	1			360 VA							28
29	L2-24 PC RECEPTACLES	15 A	1					360 VA					30
31	L2-24 PC RECEPTACLES	15 A	1	360 VA	180 VA					1	20 A	L2-24 AV RACK	32
33	L2-24 PC RECEPTACLES	15 A	1			360 VA	180 VA			1	15 A	L2-24 WEST PROJECTOR	34
35	L2-24 PC RECEPTACLES	15 A	1					360 VA	1750...	1	20 A	L2-24 UTILITY POWER	36
37	L2-24 PC RECEPTACLES	15 A	1	360 VA	0 VA								38
39	L2-24 FLOOR BOXES	15 A	1			360 VA	0 VA			3	60 A	TVSS	40
41	L2-24 TV RECEPTACLES	15 A	1					540 VA	0 VA				42
		TOTAL LOAD:		2340 VA		2520 VA		3910 VA					
		TOTAL AMPS:		20 A		21 A		33 A					

MANTECON PARTNERS
STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEERS

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No.	ISSUED/REVISED	DATE
2	ISSUED FOR TENDER	03/22/2026
1	ISSUED FOR 90% CD	03/09/2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

PANEL SCHEDULES (SHEET 2 OF 2)

Project North

Scale:

Project Number: 25-120
Drawn By: P.O.
Checked By: N.A.

E-302

MECHANICAL EQUIPMENT WIRING SCHEDULE

DETAILS				EQUIPMENT					STARTER										ISOLATING VALVE					BREAKER/FUSE SIZE	REMOTE CONTROL				INTERLOCKED WITH	INTERLOCKED BY	MAINTENANCE RECEPTICLE	SUPPLIED BY:
									TYPE					ACCESSORIES																		ES = ELECTRICAL CONTRACTOR, MS = MECHANICAL...
																															INSTALLED BY:
																															EI = ELECTRICAL CONTRACTOR, MI = MECHANICAL...
																															SUPPLIED & INSTALLED BY:
																															EP = ELECTRICAL CONTRACTOR, MP = MECHANICAL...
TAG	DESCRIPTION	SERVES	UNIT LOCATION	HP	KW	MCA (A)	VOLTAGE (V)	PHASE	MANUAL	MAGNETIC	COMBO MAGNETIC	INTEGRAL	VFD (LOOSE)	HAND/OFF/AUTO	ON/OFF/PB	PILOT LIGHT	CONTROL TRANSFER	AUX CONTACTS	NEMA 1	NEMA 3R	NEMA 12	NEMA 4X	LOCL OFF BKR		THERMOSTAT	SENSOR	BAS	TIMER				NOTES
CU-1	CONDESNOR	VRF-L1-06,08,10,14	LOADING DOCK ROOF			18.2	575	3												EP				25					VRF-L1-06,08,10,14	T-STAT		PROVIDE NEW 3 POLE BREAKER IN EXISTING PANEL TO MATCH EXISTING TYPES (SQUARE D, FH3)
CU-2	CONDESNOR	VRF-L2-10.1, 10.2,12.1, 12.2	LOADING DOCK ROOF			16.8	575	3												EP				20					VRF-L2-10.1,10.2,12.1, 12.2	T-STAT		PROVIDE NEW 3 POLE BREAKER IN EXISTING PANEL TO MATCH EXISTING TYPES (SQUARE D, FH3)
CU-3	CONDESNOR	VRF-L2-14,16	OUTSIDE			29.4	208	1												EP				30					VRF-L2-14,16	T-STAT		PROVIDE NEW 3 POLE BREAKER IN EXISTING PANEL TO MATCH EXISTING TYPES (SQUARE D, FA26)
CU-4	CONDESNOR	VRF-L1-08A	OUTSIDE			19.8	208	1												EP				20					VRF-L1-08A	T-STAT		PROVIDE NEW 3 POLE BREAKER IN EXISTING PANEL TO MATCH EXISTING TYPES (SQUARE D, FA26)
VRF-L1-06	VARIABLE REFRIDGERANT FLOW	L1-06	L1-08			1.8	208	1												EP				15	MP		MP		CU-1			
VRF-L1-08	VARIABLE REFRIDGERANT FLOW	L1-08	L1-08			1.8	208	1												EP				15	MP		MP		CU-1			
VRF-L1-08A	VARIABLE REFRIDGERANT FLOW	L1-08A	L1-08A			1.6	208	1												EP				15	MP		MP		CU-4			
VRF-L1-10	VARIABLE REFRIDGERANT FLOW	L1-06	L1-08			1.8	208	1												EP				15	MP		MP		CU-1			
VRF-L1-14	VARIABLE REFRIDGERANT FLOW	L1-14	L1-12			1.8	208	1												EP				15	MP		MP		CU-1			
VRF-L2-10.1	VARIABLE REFRIDGERANT FLOW	L2-10	L2-10			2.8	208	1												EP				15	MP		MP		CU-2			
VRF-L2-10.2	VARIABLE REFRIDGERANT FLOW	L2-10	L2-10			2.8	208	1												EP				15	MP		MP		CU-2			
VRF-L2.12.1	VARIABLE REFRIDGERANT FLOW	L2-12	L2-12			2.8	208	1												EP				15	MP		MP		CU-2			
VRF-L2.12.2	VARIABLE REFRIDGERANT FLOW	L2-12	L2-12			2.8	208	1												EP				15	MP		MP		CU-2			
VRF-L2-14	VARIABLE REFRIDGERANT FLOW	L2-14	L2-14			1.8	208	1												EP				15	MP		MP		CU-3			
VRF-L2-16	VARIABLE REFRIDGERANT FLOW	L2-16	L2-16			1.8	208	1												EP				15	MP		MP		CU-3			

UNLESS STATED OTHERWISE, DIRECT-ONLINE (DOL) STARTING SHALL ONLY BE USED WHERE SPECIFIED IN THE DOCUMENTS.

COMPATIBLE SOFT STARTERS OR VFD'S MUST BE PROVIDED BASED ON THE FOLLOWING:

UP TO 120V 1-PHASE SYSTEM VOLTAGE, MOTORISED EQUIPMENT RATED ¼ HP AND HIGHER.
UP TO 240V 1-PHASE SYSTEM VOLTAGE, MOTORISED EQUIPMENT RATED ½ HP AND HIGHER.
UP TO 230V (L-L) 3-PHASE SYSTEM VOLTAGE, MOTORISED EQUIPMENT RATED ¾ HP AND HIGHER.
UP TO 575V (L-L) 3-PHASE SYSTEM VOLTAGE, MOTORISED EQUIPMENT RATED 1½ HP AND HIGHER.

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15 Foundry Street, Dundas, ON, L9H 2V6
Phone: (905)648-0373 www.mantecon partners.com

No.	ISSUED/REVISED	DATE
5	ISSUED FOR TENDER	03/22/2026
4	ISSUED FOR 90% CD	03/09/2026
3	ISSUED FOR 50% CD	02/20/26
2	ISSUED FOR PROGRESS REVIEW	02/09/26
1	ISSUED FOR DD SIGN OFF	01/23/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

MECHANICAL EQUIPMENT WIRING SCHEDULE

Project North

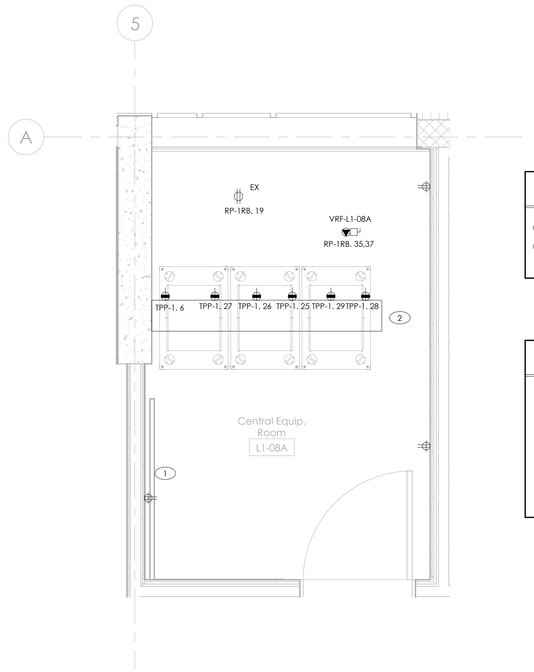
Scale:

Project Number: 25-120

Drawn By: P.O.

Checked By: N.A.

E-303



DRAWING NOTES

1. PROVIDE FIRE-RATED PLYWOOD BACKBOARD IN INDICATED LOCATION
2. PROVIDE CABLE TRAY IN INDICATED LOCATION. COORDINATE CABLE TRAY INSTALLATION WITH AV RACK INSTALLATIONS. AV CONTRACTOR TO PROVIDE EQUIPMENT RACKS. TWIST LOCK RECEPTACLES SHALL BE MOUNTED ON CABLE TRAY.

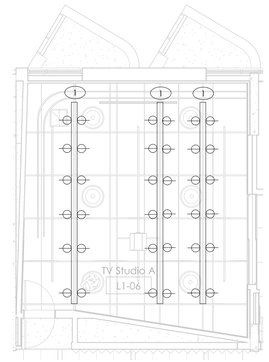
GENERAL NOTES

1. ENSURE DEVICE BACKBOXES HAVE A MINIMUM SEPARATION OF 800MM
2. REFER TO ENGINEERING HARMONICS DRAWING AV-002 FOR DIVISION OF RESPONSIBILITY MATRIX
3. REFER TO ENGINEERING HARMONICS DRAWING AV-011 FOR TECHNICAL AND UTILITY RECEPTACLE WIRING DETAILS.
4. PROVIDE EMPTY CONDUIT SYSTEM FROM CABLE TRAY IN CENTRAL EQUIPMENT ROOM L1-08A TO JUNCTION BOXES AND BACK BOXES IN EACH ROOM AS INDICATED ON ENGINEERING HARMONICS AV DRAWINGS. PROVIDE BACK BOXES AND JUNCTION BOXES WHERE INDICATED. REFER TO AV DRAWINGS FOR MOUNTING HEIGHTS, CONDUIT DESTINATIONS, CONDUIT QUANTITIES, AS WELL AS CONDUIT AND BOX SPECIFICATIONS.

1 E-400 CENTRAL EQUIPMENT ROOM L1-08A ELECTRICAL PLAN
1 : 25

DRAWING NOTES

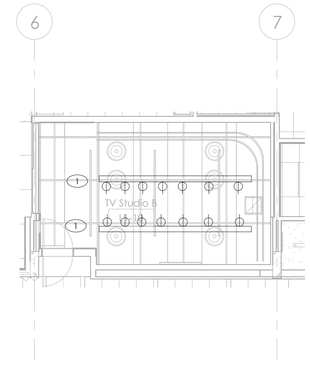
1. PROVIDE WIREWAY MOUNTED ON TOP OF PIPE GRID FOR PRODUCTION LIGHTING. PROVIDE NEMA L5-20R RECEPTACLES MOUNTED ALONG WIREWAY.



2 E-400 TV STUDIO A (L1-06) LIGHTING GRID POWER PLAN
1 : 100

DRAWING NOTES

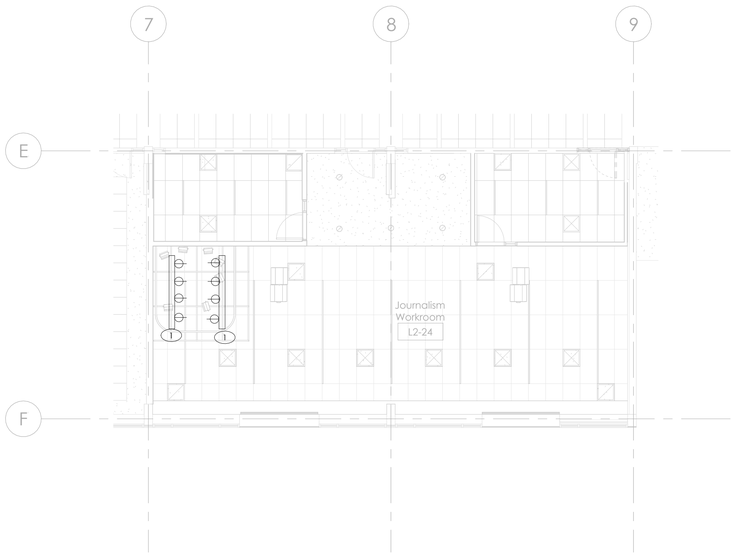
1. PROVIDE WIREWAY MOUNTED ON TOP OF PIPE GRID FOR PRODUCTION LIGHTING. PROVIDE NEMA L5-20R RECEPTACLES MOUNTED ALONG WIREWAY.



3 E-400 TV STUDIO B (L1-10) LIGHTING GRID POWER PLAN
1 : 100

DRAWING NOTES

1. PROVIDE WIREWAY MOUNTED ON TOP OF PIPE GRID FOR PRODUCTION LIGHTING. PROVIDE NEMA L5-20R RECEPTACLES MOUNTED ALONG WIREWAY.



4 E-400 L2-24 LIGHTING GRID POWER PLAN
1 : 100

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No.	ISSUED/REVISED	DATE
1	ISSUED FOR TENDER	03/22/2026

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

ELECTRICAL DETAILS

Project North

Scale: As indicated

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

E-400

DRAWING NOTES

1. DISCONNECT EXISTING PANEL RP-1RB AND MAKE SAFE FOR RELOCATION. REMOVE EXISTING WIRING/CONDUIT FEEDING PANEL RP-1RB BACK TO PANEL PP-1PA IN ELECTRICAL ROOM L1-31. PRESERVE 12 EXISTING BREAKERS AND WIRING/CONDUIT FEEDING ROOM L1-04 FOR USE WITH RELOCATED PANEL. SURGE PROTECTOR AND ASSOCIATED BREAKER TO REMAIN.
2. DISCONNECT EXISTING PANEL RP-1RC AND MAKE SAFE FOR RELOCATION. REMOVE EXISTING WIRING/CONDUIT FEEDING PANEL RP-1RC BACK TO PANEL PP-1PA IN ELECTRICAL ROOM L1-31. SURGE PROTECTOR AND ASSOCIATED BREAKER TO REMAIN.

1 / ED-100 LEVEL 1 - POWER DEMOLITION PLAN
1 : 100

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR 90% CD	03/09/2026
1	ISSUED FOR 50% CD	02/20/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

LEVEL 1 - POWER AND SYSTEMS DEMOLITION PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

ED-100

GENERAL NOTES

1. REMOVE EXISTING FLOORBOXES AND ASSOCIATED WIRING WHERE INDICATED. CAP EXISTING CONDUIT AND ABANDON IN PLACE UNLESS OTHERWISE SPECIFIED. REMOVE WIRING BACK TO NEAREST JUNCTION BOX OUTSIDE OF SPACE. PRESERVE EXISTING CIRCUITS FOR REUSE IN NEW SPACE.
2. UNLESS OTHERWISE SPECIFIED REMOVE EXISTING POWER WIRING/CONDUIT TO NEAREST JUNCTION BOX OUTSIDE OF ROOM. PRESERVE EXISTING CIRCUITS FOR REUSE IN NEW SPACE. REMOVE EXISTING COMMUNICATIONS WIRING BACK TO SOURCE.

DRAWING NOTES

(1) PROTECT ALL WIRING/CONDUIT LEAVING INDICATED PANELS SERVING EXISTING DEVICES TO REMAIN. WIRING/CONDUIT SHALL BE REUSED WITH NEW PANEL MOUNTED IN EXISTING PANEL LOCATION. REFER TO DRAWING E-101.

(2) SEPARATE PRICE#1: PROVIDE SEPARATE PRICE TO RELOCATE PANEL RP-2RD TO INDICATED WALL. ALL FEEDERS LEAVING PANEL RP-2RD SHALL BE EXTENDED TO NEW PANEL LOCATION. EXISTING CONDUITS SERVING FLOORBOXES RUNS UNDERNEATH SLAB.

1 / ED-101 LEVEL 2 - POWER AND SYSTEMS DEMOLITION PLAN
Copy 1
1 : 100

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR 90% CD	03/09/2026
1	ISSUED FOR 50% CD	02/20/26

Centennial Story Arts Centre Relocation

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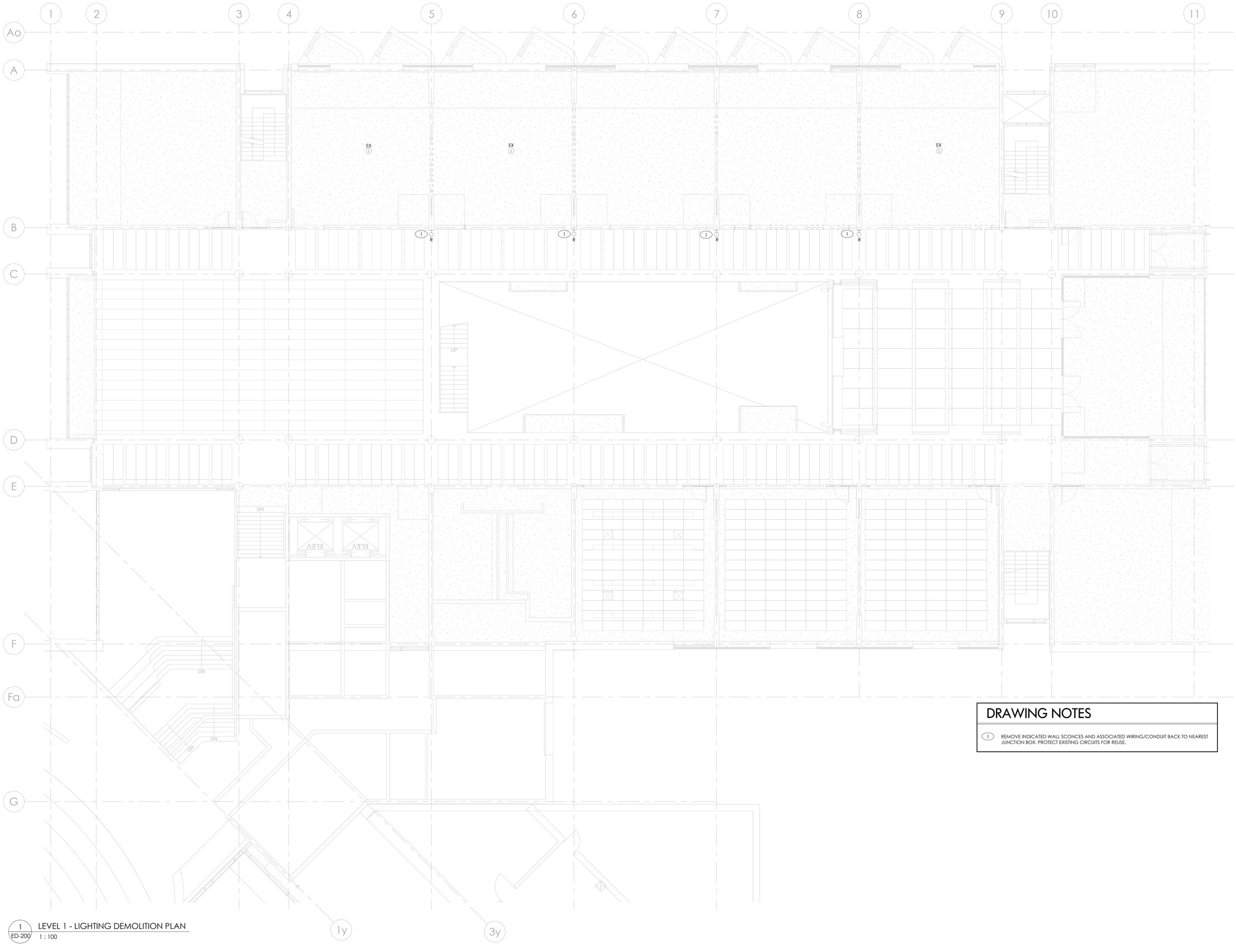
LEVEL 2 - POWER AND SYSTEMS DEMOLITION PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

ED-101



DRAWING NOTES

1. REMOVE INDICATED WALL SCONCES AND ASSOCIATED WIRING/CONDUIT BACK TO NEAREST JUNCTION BOX. PROTECT EXISTING CIRCUITS FOR REUSE.

1 ED-200 LEVEL 1 - LIGHTING DEMOLITION PLAN
1 : 100

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR 90% CD	03/09/2026
1	ISSUED FOR 50% CD	02/20/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

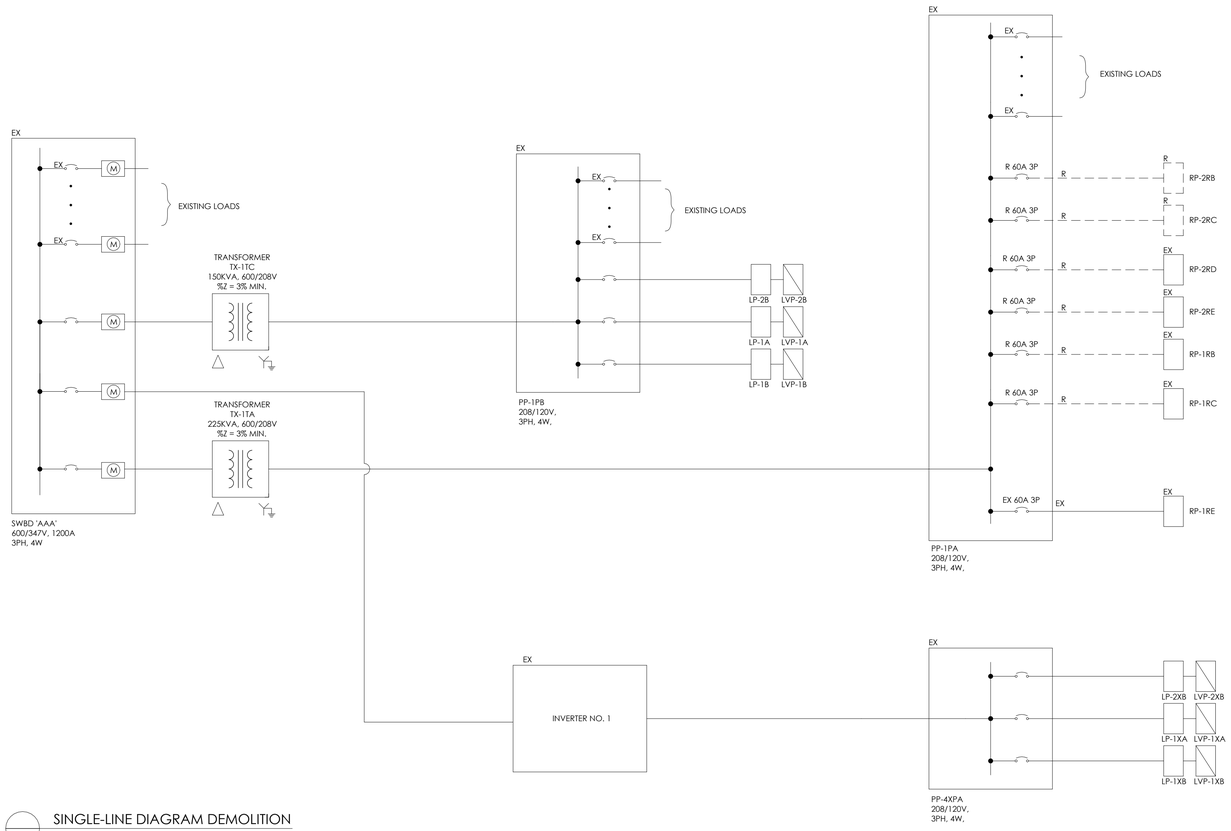
LEVEL 1 - LIGHTING AND FIRE ALARM PLAN

Project North

Scale: 1 : 100

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

ED-200



SINGLE-LINE DIAGRAM DEMOLITION

N.T.S.

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR TENDER	03/22/2026
2	ISSUED FOR 90% CD	03/09/2026
1	ISSUED FOR 50% CD	02/20/26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

SINGLE LINE DIAGRAM DEMOLITION

Project North

Scale: 1 : 1

Project Number: 25-120	
Drawn By: P.O.	
Checked By: N.A.	

ED-300

DWG	TITLE	REVISION	DATE
AV-000	AV SYSTEMS DRAWING LIST	GC TENDER	23-MAR-2026
AV-001	AV SYSTEMS LEGENDS AND DETAILS	GC TENDER	23-MAR-2026
AV-002	AV SYSTEMS DIVISION OF RESPONSIBILITY	GC TENDER	23-MAR-2026
AV-010	AV SYSTEMS TYPICAL CONDUIT RACK AND RACK POWER DETAILS	GC TENDER	23-MAR-2026
AV-011	AV SYSTEMS TYPICAL ELECTRICAL DETAILS	GC TENDER	23-MAR-2026
AV-100	AV SYSTEMS LEVEL 1 KEYPLAN	GC TENDER	23-MAR-2026
AV-101	AV SYSTEMS LEVEL 2 KEYPLAN	GC TENDER	23-MAR-2026
AV-200	AV SYSTEMS L1 TV STUDIO A DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-201	AV SYSTEMS L1 TV STUDIO PRODUCTION CONTROL AND OBSERVATION SEATING DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-202	AV SYSTEMS L1 TV STUDIO B AND WORKSHOP TECH OFFICE DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-203	AV SYSTEMS L1 OPEN ACCESS EDITING AND BOOKABLE EDITING SUITES DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-204	AV SYSTEMS L1 PODCASTING STUDIO A/B DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-205	AV SYSTEMS L1 RADIO STUDIO DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-206	AV SYSTEMS L1 DEVICE SCHEDULE	GC TENDER	23-MAR-2026
AV-215	AV SYSTEMS L2 SMALL GROUP COLLAB-NEWS STUDIO AND BREAKOUT RM DEVICE LOCATIONS PLAN AND RCP	GC TENDER	23-MAR-2026
AV-216	AV SYSTEMS L2 DEVICE SCHEDULE	GC TENDER	23-MAR-2026
AV-400	AV SYSTEMS DETAILS DESK CONCEPTS	GC TENDER	23-MAR-2026
AV-401	AV SYSTEMS DETAILS RACK DETAILS	GC TENDER	23-MAR-2026
AV-402	AV SYSTEMS PANEL AND BOX DETAILS	GC TENDER	23-MAR-2026
AV-403	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-404	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-405	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-406	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-407	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-408	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-409	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026
AV-410	AV SYSTEMS INSTALLATION DETAILS	GC TENDER	23-MAR-2026

GOW HASTINGS ARCHITECTS

275 SPADINA ROAD
TORONTO ONTARIO M5R 2V3
416-920-0031
GOWHASTINGS.COM

engineering HARMONICS

No.	ISSUED/REVISED	DATE
4	ISSUED FOR GC TENDER	23-Mar-26
3	PROGRESS SET	6-Mar-26
2	PROGRESS SET	20-Feb-26
1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

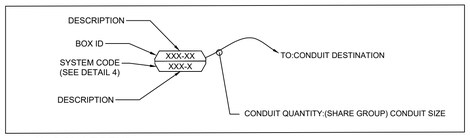
AV SYSTEMS DRAWING LIST

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-000

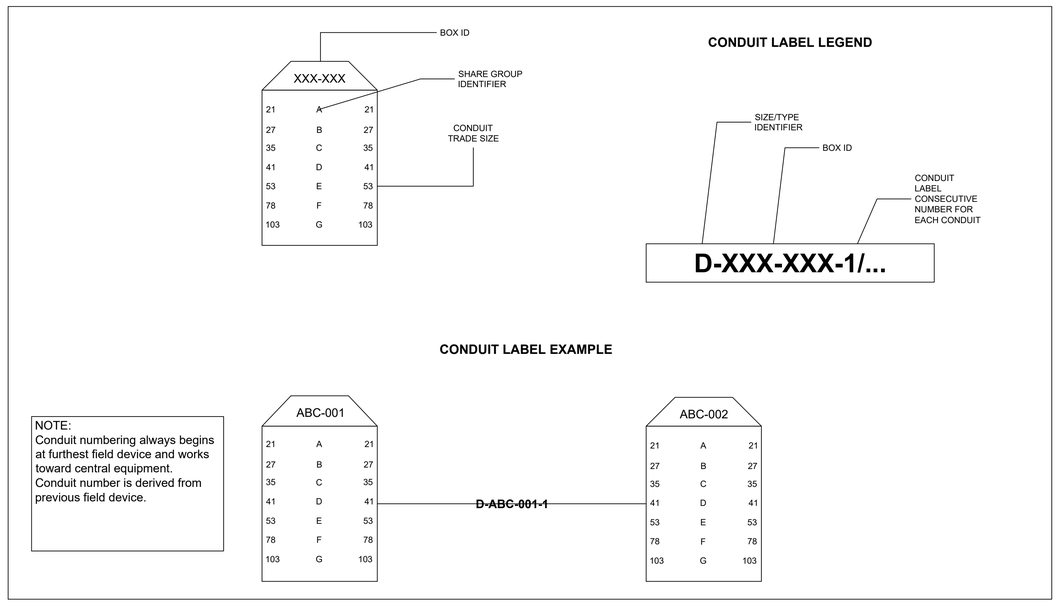


1 AV BOX LEGEND
SCALE: NTS

BOX TYPE	DESCRIPTION	HxWxD (approx)	SAMPLE PRODUCT	P/N
TYPE-C	2 Gang utility back box (requires raised box cover)	4.5x6.9x2.5 in	Eaton TP series (TP870)	TP870
TYPE-F	Square utility box (requires raised box cover)	4.70x4.70x2.13 in	Eaton TP series	TP521
DISP-2	2 Gang recessesd box for wall display	3.5Hx6.9Lx7.6W	Legrand	TV2MW
MULTI-4	Steel Box w/ screw cover	8x8x6 in	Hoffman	ASE8X8X6NK
JB1	Junction Box small w/ screw cover	12x12x6 in	Hoffman	ASE12X12X6NK
JB4	Junction Box large w/ screw cover	24x24x8 in	Hoffman	ASE24X24X8NK
BH1	Bulkhead back box medium w screw cover	12x24x8 in	Hoffman	ASE24X12X8NK
	The above represents typical back boxes required for AV systems			
	All boxes made with ferrus metal			
	All boxes painted and or galvonized			
NOTE:	All boxes mounted flush, recessed or surface (refer to architectural details)			
	All gang boxes to be supplied with raised box covers as required to ensure box is flush with finished surface			

NOTES:
4.1 ALL WALL MOUNTED BACKBOXES SHALL BE FINISHED FLUSH WITH WALL SURFACE.

2 AV SYSTEMS DEVICE BACKBOX LEGEND
SCALE: NTS



3 CONDUIT LEGEND
SCALE: NTS

ELECTRICAL & COMMUNICATIONS SYMBOL LEGEND	
SYSTEM CODE	DESCRIPTION
	120V 15A TECHNICAL POWER DUPLEX RECEPTACLE - NEMA #5-15R (BY ELECTRICAL CONTRACTOR)
	120V 20A TECHNICAL POWER DUPLEX RECEPTACLE - NEMA #5-20R (BY ELECTRICAL CONTRACTOR)
	120V 15A TECHNICAL POWER DUAL DUPLEX RECEPTACLE - NEMA #5-15R (QTY: 2) (BY ELECTRICAL CONTRACTOR)
	125V 30A TECHNICAL POWER TWISTLOK RECEPTACLE - NEMA #L5-30R (BY ELECTRICAL CONTRACTOR)
	125 VAC 20A TECNICAL POWER TWISTLOK RECEPTACLE - NEMA #L5-20R (BY ELECTRICAL CONTRACTOR)
	125/250 VAC 30A TECHNICAL POWER TWISTLOK RECEPTACLE - NEMA #L14-30R (BY ELECTRICAL CONTRACTOR)
	125 VAC 20A UTILITY POWER RECEPTACLE - NEMA #L5-20R (BY ELECTRICAL CONTRACTOR)
	120 VAC 15A TECHNICAL POWER DIRECT CONNECTION (BY ELECTRICAL CONTRACTOR)
	120 VAC 20A TECHNICAL POWER DIRECT CONNECTION (BY ELECTRICAL CONTRACTOR)
20A	SINGLE PHASE 250V 20A TRUEONE POWER LOCKING CONNECTOR (BY ELECTRICAL CONTRACTOR)
20A	3 PHASE 120/208V 20A DIRECT CONNECTION (BY ELECTRICAL CONTRACTOR)
	120V 15A UTILITY POWER DUPLEX RECEPTACLE - NEMA #5-15R (BY ELECTRICAL CONTRACTOR)
20A	208V 20A 6 CIRCUIT SOCAPEX POWER RECEPTACLE (BY ELECTRICAL CONTRACTOR)
x #	LAN/DATA (BY ELECTRICAL CONTRACTOR), # DESIGNATES THE QUANTITY OF UNIQUE DROPS (SEE NOTE 5.1)
CS XXX nnnA	COMPANY SWITCH (BY ELECTRICAL CONTRACTOR), nnnA DESIGNATES DEDICATED AMP SERVICE, xxx DESIGNATES UNIQUE SWITCH ID

NOTES:
5.1 SYMBOLS AND LOCATIONS ARE PROVIDED SOLELY FOR THE COORDINATION OF OTHER TRADES AND ARE NOT PROVIDED BY THE AV SYSTEMS CONTRACTOR.
5.2 REFER TO ELECTRICAL AND TELECOM DRAWINGS FOR REFERENCE

4 ELECTRICAL & COMMUNICATIONS SYMBOL LEGEND
SCALE: NTS

SHARE GROUPS	
SHARE GROUP	SHARE NAME
A	MICROPHONE LEVEL
B	LINE LEVEL
C	VIDEO
D	DATA AND CONTROL
E	LOUDSPEAKER LEVEL
F	HEARING ASSISTANCE Tx
G	WIRELESS MICROPHONE Rx

5 WIRE SHARE GROUPS
SCALE: NTS

CABLE ID	DESCRIPTION	PRODUCT	CABLE PHYSICAL DESCRIPTION	OD	SHARE GROUP	SHARE NAME
M	ANALOGUE MICROPHONE	BELDEN 1800F	BROADCAST/HIGH DURABILITY MICROPHONE CABLE	0.211	A	MICROPHONE
L	ANALOGUE LINE	BELDEN 1800F	BROADCAST/HIGH DURABILITY MICROPHONE CABLE	0.211	B	LINE LEVEL
V	DIGITAL VIDEO	BELDEN 1694A	1C18SHLD RG-6U 75 OHM VIDEO - DIGITAL COAX CABLE	0.28	C	VIDEO, DIGITAL COMMUNICATION
AN	COPPER DATA	BELDEN 7851A	ENHANCED CAT 6 BONDED PAIR	0.315	D	COMMUNICATION
C	COPPER DATA	BELDEN 7851A	ENHANCED CAT 6 BONDED PAIR	0.315	D	COMMUNICATION
D	COPPER DATA	BELDEN 10GX62F	ENHANCED CAT 6A BONDED PAIR	0.26	D	COMMUNICATION
DA	DIGITAL AUDIO	BELDEN 1800B	24/2 DIGITAL AUDIO CABLE - 110 OHM	0.177	D	COMMUNICATION
DV	COPPER DATA	BELDEN 1533R	CAT 5E UTP FT4	0.27	D	COMMUNICATION
MM6	FIBER DATA	BELDEN B9E007	6 FIBRE MULTIMODE, 50/125 MICRON (OM4) FT4	0.357	D	COMMUNICATION
MM12	FIBER DATA	BELDEN B9E010	12 FIBRE MULTIMODE, 50/125 MICRON (OM4) FT4	0.514	D	COMMUNICATION
MM18	FIBER DATA	BELDEN B9E027	18 FIBRE MULTIMODE, 50/125 MICRON (OM4) FT4	0.514	D	COMMUNICATION
MM24	FIBER DATA	BELDEN B9E012	24 FIBRE MULTIMODE, 50/125 MICRON (OM4) FT4	0.49	D	COMMUNICATION
SM6	FIBER DATA	BELDEN B9W007	6 FIBRE SINGLEMODE, 50/125 MICRON (OS2) FT4	0.357	D	COMMUNICATION
SM12	FIBER DATA	BELDEN B9W010	12 FIBRE SINGLEMODE, 50/125 MICRON (OS2) FT4	0.514	D	COMMUNICATION
SM18	FIBER DATA	BELDEN B9W011	18 FIBRE SINGLEMODE, 50/125 MICRON (OS2) FT4	0.514	D	COMMUNICATION
SM24	FIBER DATA	BELDEN B9W012	24 FIBRE SINGLEMODE, 50/125 MICRON (OS2) FT4	0.514	D	COMMUNICATION
LS14	LOUDSPEAKER CABLE	BELDEN 5100UE	2C14 FT4 NEW GENERATION SERIES	0.230	E	LOUDSPEAKER
LS12	LOUDSPEAKER CABLE	BELDEN 5000UE	2C12 FT4 NEW GENERATION SERIES	0.260	E	LOUDSPEAKER
RF	RF	BELDEN 9258	1C10SHLD RG-8U WIRELESS MIC ANTENNA 50 OHM COAX	0.242	G	RECEIVE SIGNAL
HA	COAX	BELDEN 4694R	RG-6 12 Ghz Coax 4K UHD Precision Video Coax 75 Ohm 18AWG	0.274	G	VIDEO SIGNAL

6 CABLE TYPES
SCALE: NTS

7 GENERAL NOTES
SCALE: NTS

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No.	ISSUED/REVISED	DATE
4	ISSUED FOR GC TENDER	23-Mar-26
3	PROGRESS SET	6-Mar-26
2	PROGRESS SET	20-Feb-26
1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

AV SYSTEMS LEGENDS AND DETAILS

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-001

SCOPE	BROADCAST/ AV CONTRACTOR	PRODUCTION LIGHTING CONTRACTOR	COLLEGE AV CONTRACTOR	SPECIALTY CONTRACTOR	OWNER	ELECTRICAL CONTRACTOR (EC)	GENERAL CONTRACTOR
GENERAL							
Project Management							Provide - coordination and logistics
Security Clearance and Access					Provide		
Site access					Provide		
Conduits and cable raceways						Provide	
Cable tray and wire management						Provide	
Back boxes for all systems						Provide	
Branch circuit protection						Provide	
Facility ground buss bars						Provide	
Lift for access to spaces at height	Contractor to provide certified operator						Provide
Shop drawings, modeling and as builts	Provide						
System calibration, configuration and presets	Provide						
Training staff	Provide						
BROADCAST SYSTEMS							
All electrical components						Provide	
Electrical distribution and outlets						Provide	
Outlets and circuits to accommodate equipment	Coordinate with EC					Provide	
new wire and cable as required for existing and new components	Provide						
Power cables to connect equipment to outlets	Provide						
Power outlets or service connections for AV equipment (c/w covers)						Provide	
Portable equipment racks	Provide						Coordinate
Power distribution and extension cables for portable racks	Provide						
Fixed Equipment racks for AV equipment	Provide						
Power distribution and ground buss bars within AV equipment racks	Provide						
Connection of power distribution within racks	Provide						
Permits and inspections as required by applicable codes						Provide	
AV Component ground strap to ground buss in rack	Provide						
Dedicated ground buss connection to AV rack technical ground bar						Provide	
Loudspeaker system	Provide						
Loudspeaker rigging and suspension hardware (from rigging and or structural hard points provided)	AV Contractor to coordinate			Provide			Provide structural support required.
AV equipment (c/w programming and configuration)	Provide						
AV connections and panels for new equipment	Provide						
All AV related low voltage cable and wire for new systems	Provide						
Construction materials (wood, steel, fasteners, etc)							Provide
Performance loudspeaker structural steel point							Provide structural support required.
All signal cable and wire to support existing and new systems provided in scope	Provide						
All terminations and patch cables required for new systems	Provide						
Broadcast bulkhead adapter plates	Provide					Provide	Provide structural support required.
Broadcast plates, panels and connectors for old and new system components	Provide						Provide structural support required.
Broadcast system interfaces (incl software programming and configuration)	Provide						
External Internet access to support new system					Provide		
Data network to support Broadcast system components	Provide						
PRODUCTION LIGHTING							
Power distribution						Provide	
Power outlets						Provide	
Company switches						Provide	
Power distribution connection						Provide	
Conduit and back boxes for production lighting						Provide	
Lighting fixtures		Provide					
Lighting fixtures mounts		Provide					
Production low voltage lighting control(s)		Provide					
Extra Low voltage lighting cables		Provide					
Cover plates and panels		Provide					
BROADCAST IT SYSTEMS							
Power distribution / branch circuits						Provide	
Power outlets						Provide	
Conduit and back boxes for IT systems						Provide	
Extra low voltage cabling	Provide						
Extra low voltage termination	provide						
IT/ Comm services to building					Provide		
SPECIALTY PRODUCTION EQUIPMENT							
Power distribution/ outlets for equipment as required						Provide	
Power distribution connection						Provide	
Conduit and back boxes for production equipment						Provide	
Curtain and drapery track and all hardware				Provide			
Drapery, curtains				Provide			
Cyclorama Wall finished and painted				Provide			Coordinate
Exisiting grid equipment relocation and installation				Coordinate with GC			Provide
Grid connection to hard points							Provide structural support required.
Notes:							
1. The table above summarizes the scope of work of the various trades as they relate to the performance and AV Systems.							
2. The term "Provide" as used in this Document, denotes "supply install, terminate, test, document, and commission".							
3. EC to coordinate all AV related work the AV Broadcast Contractor. EC to provide all ancillary materials and hardware required to provide a complete, fully operational code-compliant electrical system.							

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Centennial Story Arts Centre Relocation

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AV SYSTEMS DIVISION OF RESPONSIBILITY

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-002

CONDUIT AND BACKBOX NETWORKS

General

1. This section describes the special requirements of AV systems networks, supplemental to the requirements for conduit networks in general, described elsewhere.
2. Supply and install networks of conduits (including pullboxes and junction boxes) and backboxes, ready for pulling of wire. Requirements are shown on AV drawings.
3. The description of conduit systems as shown in AV schedules and risers is schematic only and is intended to convey the requirements of the AV conduit system such that the AV systems will function correctly.
4. Provided that the stated requirements are met, the Electrical Contractor may use its discretion to adjust the design of the AV conduit network to conform to site conditions and realize to economies in materials and/or physical space. Examples of such conditions are as follows:
   - Routing of conduit from point to point may be changed to run via available building lines and accessible areas.
   - Within AV share groups, many smaller conduits may be combined into fewer larger conduits provided that stated fill ratio is observed and net conduit capacity is not reduced.

Backboxes

General

1. The term "backbox" includes termination boxes mounted to walls, ceilings and in floors. All backboxes to be supplied with utility covers, fastened in place.
2. The drawings show, approximately, where backboxes are to be located. For exact locations, see architectural drawings or obtain direction from the architect. The locations of some pull-boxes and junction boxes are indicated for reference. Their exact locations to be determined by the contractor in the field, subject to the requirements shown herein and in the drawings.

Nomenclature

1. With the exception of certain "daisy-chain" layouts (e.g. paging loudspeakers), each backbox is identified by a unique number. For "daisy-chain" groups, each group is assigned a unique zone identification.
2. Consult Location Schedule and AV drawings for details of backbox installation requirements (size, mounting height, other requirements).
3. Each backbox is identified by System Code according to the AV system(s) cables that will be terminated there. The code "CP" indicates that the backbox is a member of several systems.

Materials

1. All backboxes to be manufactured of steel.
2. All backboxes to be 75mm (3") deep or greater, except loudspeaker backboxes, which are specified separately.
3. All suspended backboxes shall include at least one redundant chain to be fastened to the ceiling slab or other structural member for seismic and fire safely purposes. Tension rating of chain and fasteners to meet code requirements.

Installation

1. Coordinate backbox locations as required with electrical power receptacles and light switches to present a uniform appearance to the satisfaction of the architect.
2. Mount surface or recessed according to local finish requirements, at the discretion of the architect.
3. Mark backboxes in the field consistent with the drawings for identification purposes. Use permanent marker to mark ID and System Code on the facing surface of the backbox.
4. Coordinate ceiling backboxes with other services in ceiling such that backboxes are clear of interferences and directly accessible from below.
5. In open ceilings, where chain or strut is the primary hanging support, ensure that loudspeaker are suspended plumb and level at consistent height above finished floor.
6. Where loudspeaker backboxes will be concealed above plaster or gypsum board ceiling prior to installation of the loudspeakers, provide pullstring suspended below the ceiling line to indicate its location.

Note: All junction boxes must be accessible after the installation of wall finishes and other permanent building features.

Conduit

Organization

1. Unless noted otherwise, provide a separate network connecting all backboxes of each system, as identified on the drawings.
2. Unless noted otherwise, provide conduit to join every backbox to the network(s), whether or not the conduit is specifically described herein.
3. Where shown on the Cable Schedule, systems are combined into "share groups". Provide a separate network for each cable share group. Unless indicated as shared, do not intermix wiring types in a given conduit.
4. Where a bulkhead or panel is shown on schedules as "MULTI", multiple separate conduit networks may be terminated to it. Where conduit runs continue through a MULTI panel, maintain organization of groups on both sides.

Size

1. Unless noted otherwise, size conduit according to requirements of wires to be contained therein. The quantity of cables is shown in the Connectivity Schedule and the sizing is shown in the Cable Schedule. The design fill ratio is 40%.

Material

1. All conduit, pull boxes and junction boxes to be ferrous metal.
2. Unless noted otherwise, use EMT in poured concrete slabs, paint with pitch or wrap with PVC tape for corrosion resistance.
3. Where noted on drawings, use rigid conduit up to 2400mm (8'-0") above finished floor where exposed indoors and subject to damage. Use epoxy coated rigid conduit where exposed in corrosive areas indoors.
4. Unless noted otherwise, PVC conduit, bushings and connections are not acceptable.

Bonding

1. All conduit, pull boxes and junction boxes to be continuously grounded by means of bonding straps linking each element.
2. Low voltage conduits shall be mechanically and electrically isolated from sound system equipment racks. At racks, use isolated connection, such as PVC bushing, such that conduit remains isolated from the rack. Connect low voltage conduits with heavy insulated ground wire to the nearest ground of a utility panel.

Proximities and Routing

1. Refer to diagram showing allowable proximities and order of racking.
2. Do not run wiring, raceways and conduit near power transformers, SCR dimmers, power control equipment, heavy current switchgear, fuseboards, fluorescent ballasts, motors, or any other equipment which radiates EMI.
3. In order to reduce magnetic interference on stage, do not route conduits of power systems through the understage area or within 15' of the stage performance area.
4. Cross conduits of power systems at 90 degrees.
5. Unusually heavy current demands in adjacent conduit or long parallel runs may dictate greater separation to avoid interference in the sound and video. Identify such instances on site and consult with Electrical consultant for resolution prior to installation of conduits.
6. Where conduit crosses acoustical joints, provide isolation methods as shown in architectural detail.
7. Conduit expansion fittings to be provide when crossing building expansion joints. Crossing to be done at 90 degrees to joint.
8. All wall-mounted paging loudspeaker and attenuator backboxes are to be served by conduit routed into ceiling space above.

Installation

1. Bend radius of conduit must be no less than 10 (ten) times the conduit diameter. Bend conduit without heating, replace conduit if chinked or flattened more than 1/10 of the original diameter.
2. Minimum distance between two pull boxes to include a maximum of 2 (two) 90 degrees bends or equivalent up to 180 degrees, or 30m (100') of conduit, whichever is less.
3. Mark all conduits in the field for identification purposes. For risers, show share group letter at every junction box. For horizontal runs, show device location ID and share group letter at every junction box.

Pull Strings

1. Fish pull-strings through all networks. At each end of each pull-string, label string with ID of other end. Secure both ends of string to conduit outside backbox to prevent it from re-entering conduit.
2. Where loudspeaker back boxes will be concealed above plaster or gypsum board ceiling prior to installation of the loudspeakers, provide pull string suspended below the ceiling line to indicate its location.
3. Fasten utility covers to all backboxes.

SCOPE OF ELECTRICAL CONTRACTOR

1 CONDUIT INSTALLATION METHODS
SCALE: NTS

CONDUIT SEPARATION CRITERIA

LENGTH OF RUN PARALLEL TO AC CONDUITS meters (feet)	MIN. SEPARATION FROM AC CONDUITS FOR ML/P/I/D CONDUITS mm (inch)	MIN. SEPARATION FROM AC CONDUITS FOR V/C mm (inch)	MIN. SEPARATION FROM AC CONDUITS FOR LS, PS, PV AND OTHER CONDUITS mm (inch)
<= 1.8 (6)	150 (6)	100 (4)	80 (3)
1.8 (6) to 9.1 (30)	300 (12)	200 (8)	150 (6)
>= 9.1 (30)	600 (24)	450 (18)	300 (12)

1. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS:

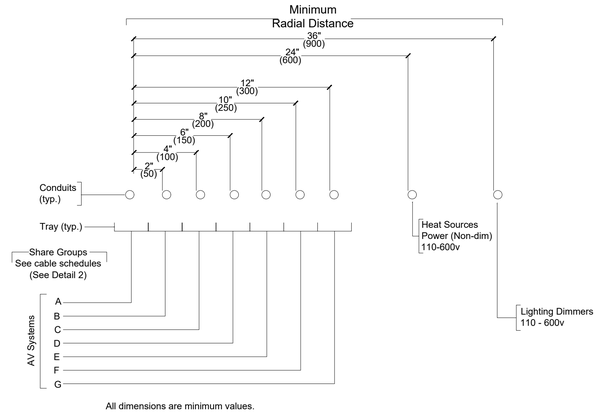
SHARE POSITION	A (FURTHEST FROM AC)	B	C	D	E	F	G (NEAREST TO AC)
CABLE TYPE	MICROPHONE	LINE LEVEL	VIDEO	CONTROL	LOUDSPEAKER	RF	HEARING ASSITANCE

BACKBOXES AND MONUMENTS

1. GROUP WITH EXISTING SERVICES. THE EXACT POSITIONING AND HEIGHT ABOVE FINISHED FLOOR OF AC OUTLET AND SIGNAL SYSTEMS BACKBOXES WILL BE TO THE OWNERS APPROVAL.
2. ALL INSTALLED BACKBOXES TO BE SQUARE AND PLUMB.
3. CONFIRM ALL LOCATIONS WITH ARCHITECT.

ELECTRICAL POWER DISTRIBUTION

1. ALL SOUND AND PROJECTION DEVICES, SOURCES, EQUIPMENT RACKS AND PROCESSORS PER ROOM TO BE FED FROM SAME PHASE ELECTRICAL DISTRIBUTION. THIS EXCLUDES MOTORIZED PROJECTION SCREENS AND/OR MOTORIZED LIFT ASSEMBLIES.



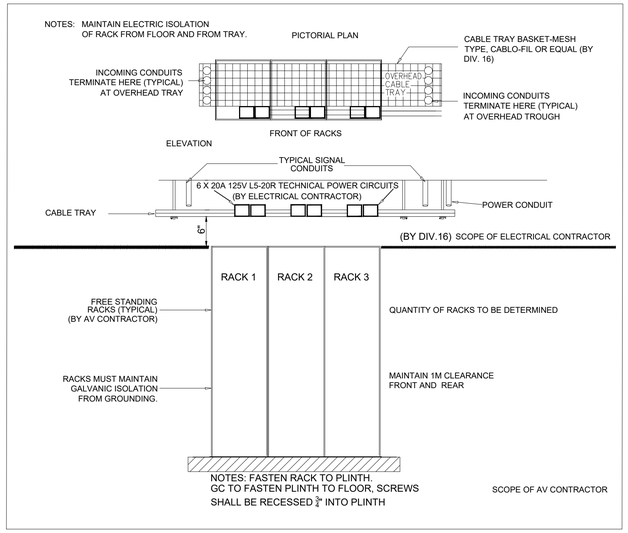
All dimensions are minimum values.

This schematic section shows minimum separation between conduits carrying wiring of different types for runs of less than 75'. For runs of length greater than 75', double all values. 90° crossing in close proximity is acceptable except where noted.

Install conduits per detail 2. If not physically possible to provide the separation specified for parallel runs over 75', the exterior of the signal conduit must be completely wrapped in 1/32" thick lead sheet.

SCOPE OF ELECTRICAL CONTRACTOR

2 AV CONDUIT SEPARATION CRITERIA
SCALE: NTS



3 AV EQUIPMENT RACK CABLE TRAY AND RACK POWER INSTALLATION DETAIL
SCALE: NTS

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Centennial Story Arts Centre Relocation

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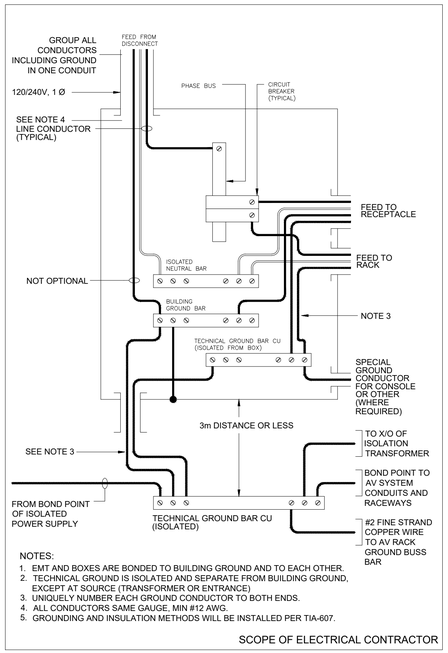
AV SYSTEMS TYPICAL CONDUIT, RACK AND RACK POWER DETAILS

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

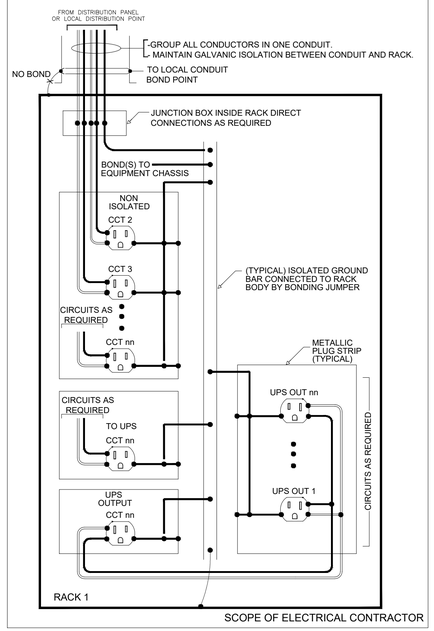
AV-010



NOTES:
1. EMT AND BOXES ARE BONDED TO BUILDING GROUND AND TO EACH OTHER.
2. TECHNICAL GROUND IS ISOLATED AND SEPARATE FROM BUILDING GROUND, EXCEPT AT SOURCE (TRANSFORMER OR ENTRANCE)
3. UNIQUELY NUMBER EACH GROUND CONDUCTOR TO BOTH ENDS.
4. ALL CONDUCTORS SAME GAUGE, MIN #12 AWG.
5. GROUNDING AND INSULATION METHODS WILL BE INSTALLED PER TIA-607.

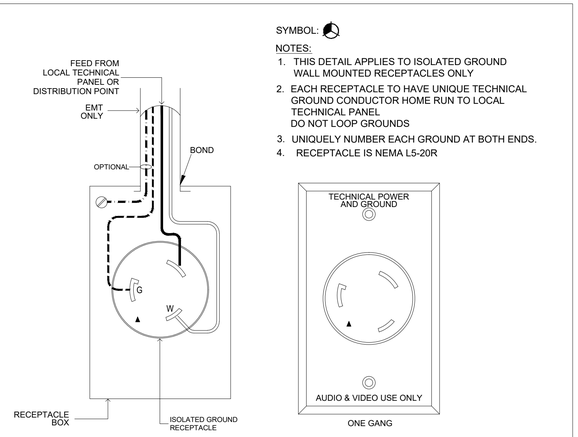
SCOPE OF ELECTRICAL CONTRACTOR

1 TYPICAL DISTRIBUTION PANEL WIRING METHODS
SCALE: NTS



SCOPE OF ELECTRICAL CONTRACTOR

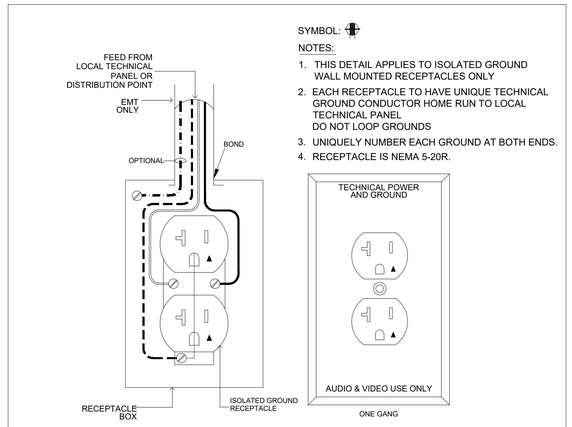
2 TYPICAL RACK WIRING METHODS
SCALE: NTS



NOTES:
1. THIS DETAIL APPLIES TO ISOLATED GROUND WALL MOUNTED RECEPTACLES ONLY
2. EACH RECEPTACLE TO HAVE UNIQUE TECHNICAL GROUND CONDUCTOR HOME RUN TO LOCAL TECHNICAL PANEL DO NOT LOOP GROUNDS
3. UNIQUELY NUMBER EACH GROUND AT BOTH ENDS.
4. RECEPTACLE IS NEMA L5-20R

SCOPE OF ELECTRICAL CONTRACTOR

5 TYPICAL 120 VAC 20A TECHNICAL GROUND TWIST-LOCK RECEPTACLE WIRING METHOD AND DETAILS
SCALE: NTS



NOTES:
1. THIS DETAIL APPLIES TO ISOLATED GROUND WALL MOUNTED RECEPTACLES ONLY
2. EACH RECEPTACLE TO HAVE UNIQUE TECHNICAL GROUND CONDUCTOR HOME RUN TO LOCAL TECHNICAL PANEL DO NOT LOOP GROUNDS
3. UNIQUELY NUMBER EACH GROUND AT BOTH ENDS.
4. RECEPTACLE IS NEMA 5-20R.

SCOPE OF ELECTRICAL CONTRACTOR

6 TYPICAL DUPLEX 120V 20A TECHNICAL GROUND RECEPTACLE WIRING METHOD & DETAILS
SCALE: NTS

TECHNICAL POWER AND ISOLATED GROUND

General
1. This section describes the special requirements of AV systems power and grounding, supplemental to the requirements for power and grounding in general, described elsewhere.
2. Coordination drawings will be provided: plans, showing device locations; riser diagrams; special details. It is expected that the electrical engineer will transfer these drawings to the electrical tender package, edited as necessary to integrate the work into the overall design and to ensure compliance with applicable states and codes.
3. In many cases, the requirements comply with, but exceed those of electrical code.

Conduit
1. All technical power and ground wiring to be in a dedicated conduit system not shared with other systems.
2. All wiring to be in conduit.
3. All conduit to be EMT or Rigid.
4. Armoured cables, such as BX and TECK, are not permitted for the technical power and ground.

Audio Systems Power Transformer
1. Provide double faraday shielded isolation transformers for technical power and ground. Ground shields and transformer per code.
2. Transformer to be located a minimum of 15 feet (5 meters) away from dimmers or other noisy AC equipment and from potential audio and video equipment locations.

Isolated (Technical) Ground
1. A system of insulated isolated ground (I.G.) conductors shall be provided to yield a low noise ground to the sensitive audio and video equipment. This system of isolated ground conductors shall be bonded to the building ground at the Service Entrance and at the transformer locations per code.
2. The isolated ground systems will be made from only insulated copper conductors, insulation to be coloured green.
3. The diameter of the isolated ground conductor shall be equal to the diameter of the line conductor(s).
4. Isolated ground bus to be provided below technical power panel boards in a separate box as shown on the drawings. This bus bar or any of the associated hardware to be manufactured from copper, plated steel or bronze. Aluminum is not acceptable. See product specifications.
5. All ground bars will be minimum 0.25" by 1.5" copper bar drilled and tapped for terminals. Length as required and mounted in dedicated ground box via isolating mount. All terminal hardware and screws will be stainless steel or brass or plated steel.
6. Each and every I.G. conductor, regardless of length, to be uniquely numbered (serialized) with a permanent cable marker at each end.
7. The isolated ground systems will be tested as discussed in Commissioning.

Technical Power Main And Sub Distribution Panels
1. Remove neutral grounding screws.
2. Provide detailed panel directory with room numbers and rack or wall location of each circuit.
3. Provide engraved Orange labels with 1" high white letters, identify as "MAIN TECHNICAL POWER PANEL".

Receptacles
1. All field receptacles to be clearly identified as I.G. and to be EEMAC isolated ground hospital grade receptacles; Orange color receptacles to indicate isolated ground preferred.
2. All rack receptacles are utility (non-isolated ground) type.

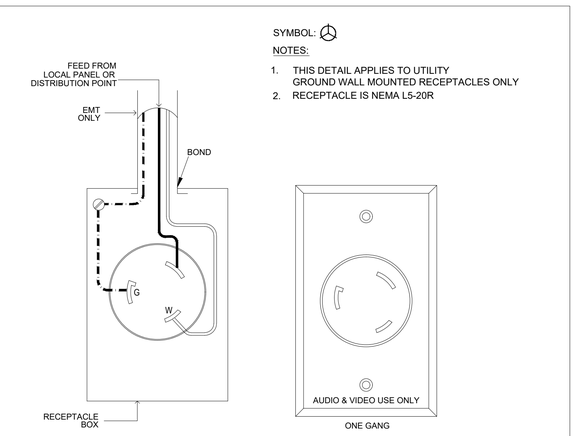
AV Company Switches (Termination Cabinets for Portable/Temporary Equipment)
1. Company switches to be of common manufacturer as provided for theatrical systems.
2. Provide a separate terminal for connection of equipment to equipment (non-isolated) ground.
3. Provide a separate terminal for connection of equipment to isolated ground.
4. See details for special requirements.

Commissioning
General
1. These requirements are in addition to any requirements for testing or inspection by the authority having jurisdiction.
2. Test all circuits at the termination for correct phase, neutral and ground wiring.
3. With the systems powered down and terminal equipment disconnected, confirm isolated ground is isolated from the equipment (non-isolated) ground at the transformer(s) bonding point. If not isolated, investigate network to find and rectify short(s).

3 PERFORMANCE SYSTEM ELECTRICAL REQUIREMENTS
SCALE: NTS

LINETYPE	DESCRIPTION
	LINE CONDUCTOR
	NEUTRAL CONDUCTOR (WHITE)
	BUILDING GROUND CONDUCTOR
	TECHNICAL GROUND CONDUCTOR

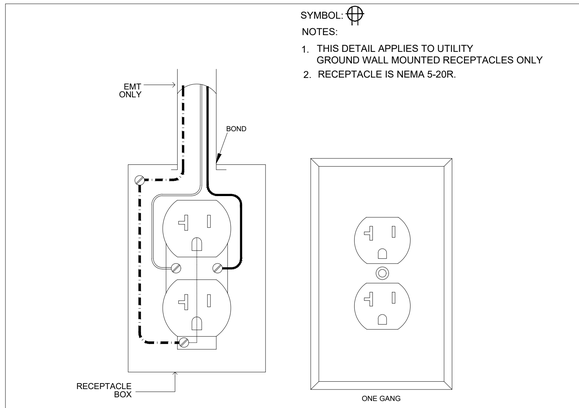
4 LEGEND
SCALE: NTS



NOTES:
1. THIS DETAIL APPLIES TO UTILITY GROUND WALL MOUNTED RECEPTACLES ONLY
2. RECEPTACLE IS NEMA L5-20R

SCOPE OF ELECTRICAL CONTRACTOR

7 TYPICAL 120 VAC 20A UTILITY GROUND TWIST-LOCK RECEPTACLE WIRING METHOD AND DETAILS
SCALE: NTS



NOTES:
1. THIS DETAIL APPLIES TO UTILITY GROUND WALL MOUNTED RECEPTACLES ONLY
2. RECEPTACLE IS NEMA 5-20R.

SCOPE OF ELECTRICAL CONTRACTOR

8 TYPICAL DUPLEX 20A UTILITY GROUND RECEPTACLE WIRING METHOD & DETAILS
SCALE: NTS

NOTE:

1. FINAL POWER SYSTEMS ENGINEERING BY ELECTRICAL CONSULTANT.

2. REFER TO ELECTRICAL DRAWINGS FOR AV POWER LOCATIONS.

9 ELECTRICAL POWER ENGINEERING
SCALE: NTS

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AV SYSTEMS TYPICAL ELECTRICAL DETAILS

Project North

Scale: AS NOTED

Project Number: 25401
Drawn By: -
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AV-011

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AV SYSTEMS LEVEL 1 KEYPLAN

Project North

Scale: AS NOTED

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AV-100

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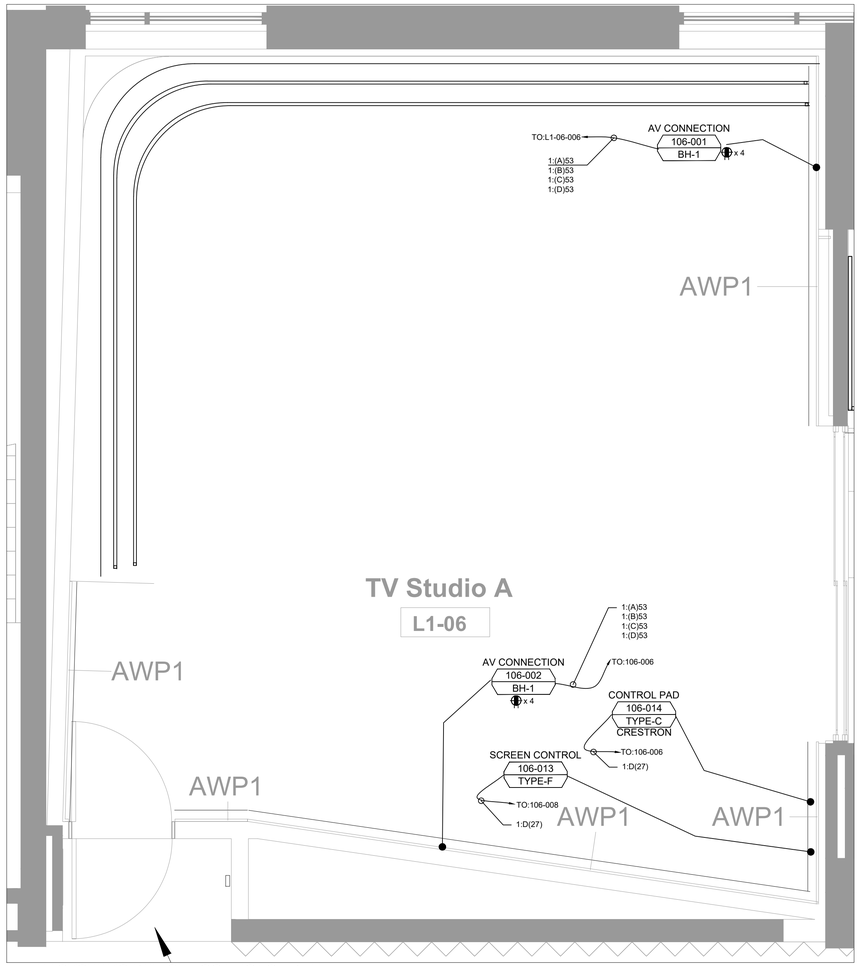
AV SYSTEMS LEVEL 2 KEYPLAN

Project North

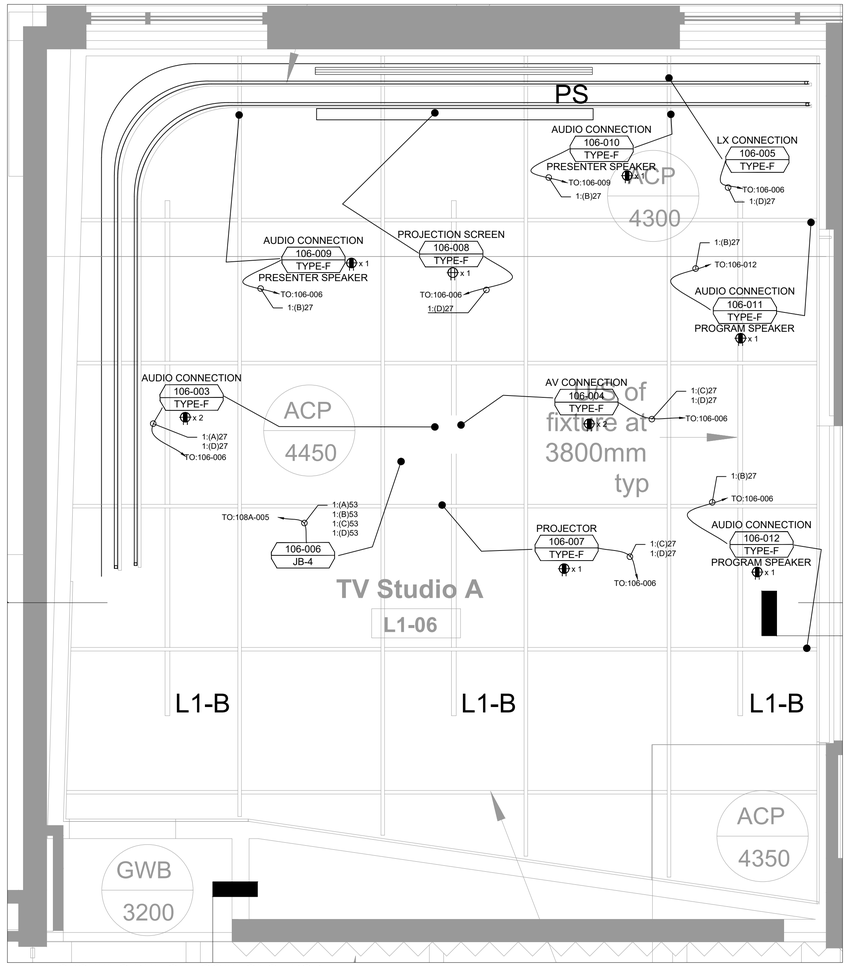
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-101



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

GOW HASTINGS ARCHITECTS

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engineering HARMONICS

No.	ISSUED/REVISED	DATE
5	ISSUED FOR GC TENDER	23-Mar-26
4	PROGRESS SET	6-Mar-26
3	PROGRESS SET	20-Feb-26
2	ELECTRICAL COORDINATION	17-FEB-26
1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

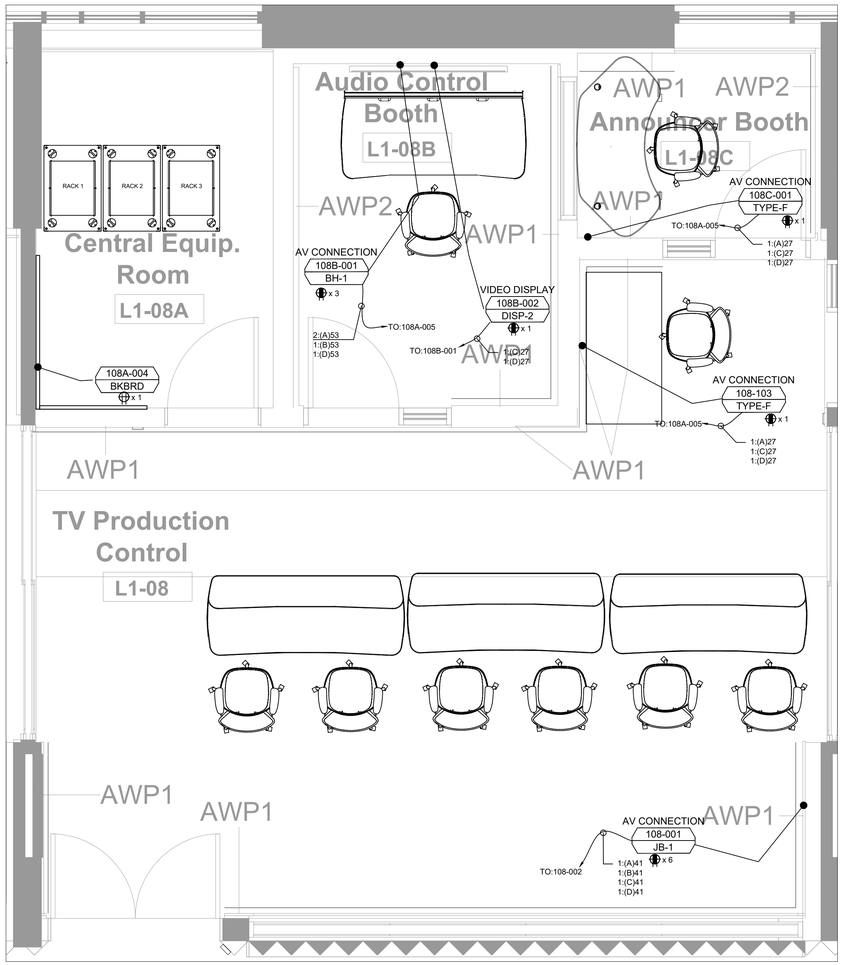
AV SYSTEMS L1 TV STUDIO A DEVICE LOCATIONS PLAN AND RCP

Project North

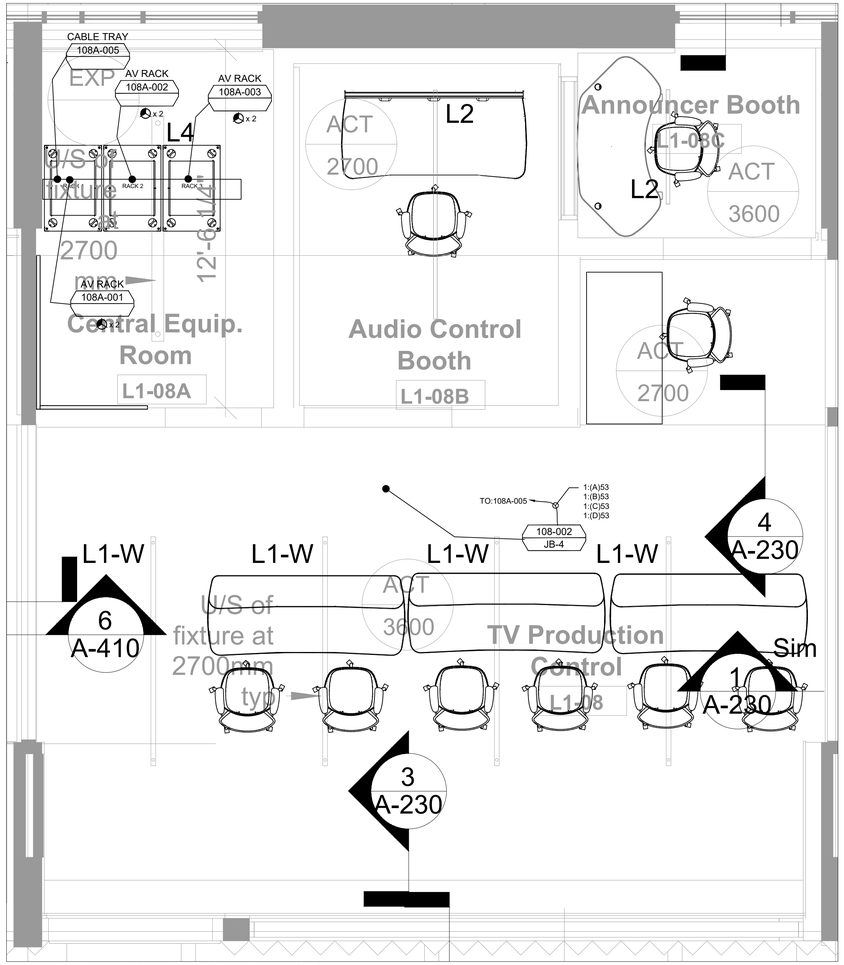
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-200



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

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5	ISSUED FOR GC TENDER	23-Mar-26
4	PROGRESS SET	6-Mar-26
3	PROGRESS SET	20-Feb-26
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1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

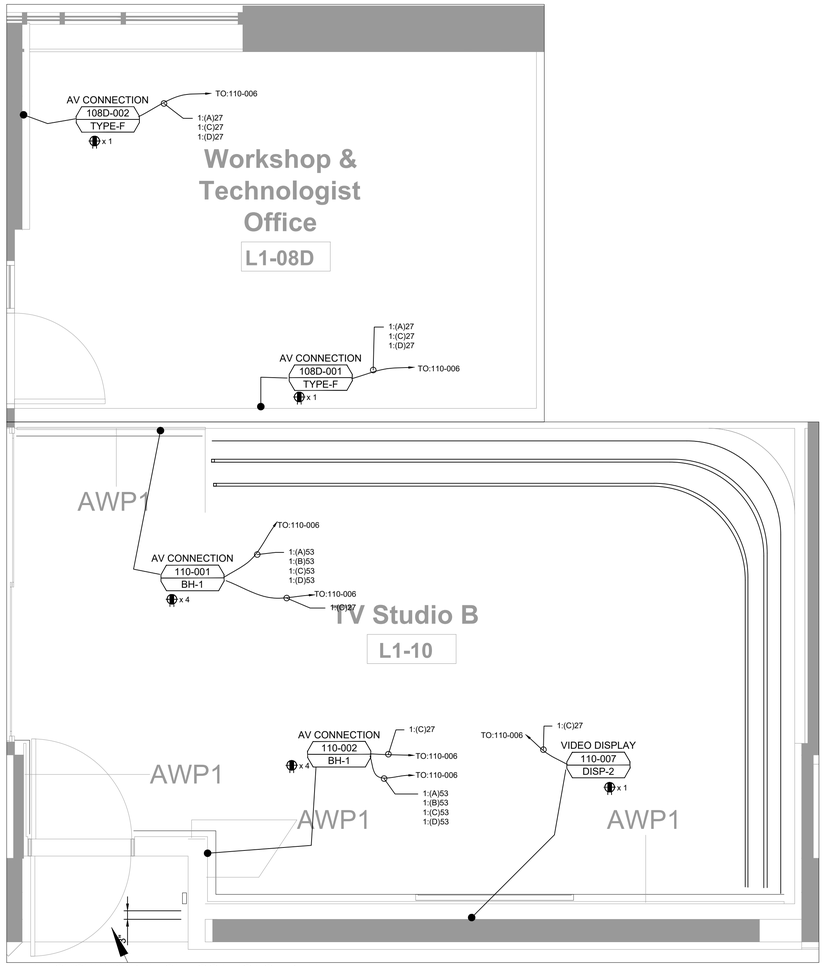
AV SYSTEMS L1 TV STUDIO PRODUCTION CONTROL AND OBSERVATION SEATING DEVICE LOCATIONS PLAN AND RCP

Project North

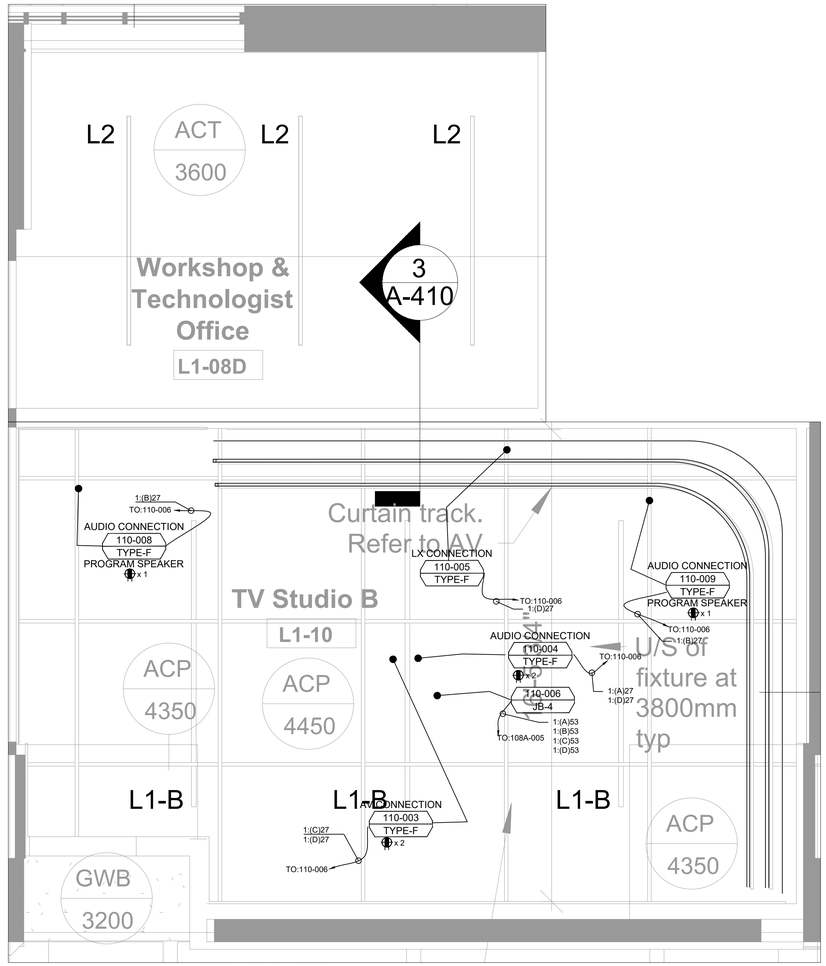
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-201



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

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No.	ISSUED/REVISED	DATE
5	ISSUED FOR GC TENDER	23-Mar-26
4	PROGRESS SET	6-Mar-26
3	PROGRESS SET	20-Feb-26
2	ELECTRICAL COORDINATION	17-FEB-26
1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

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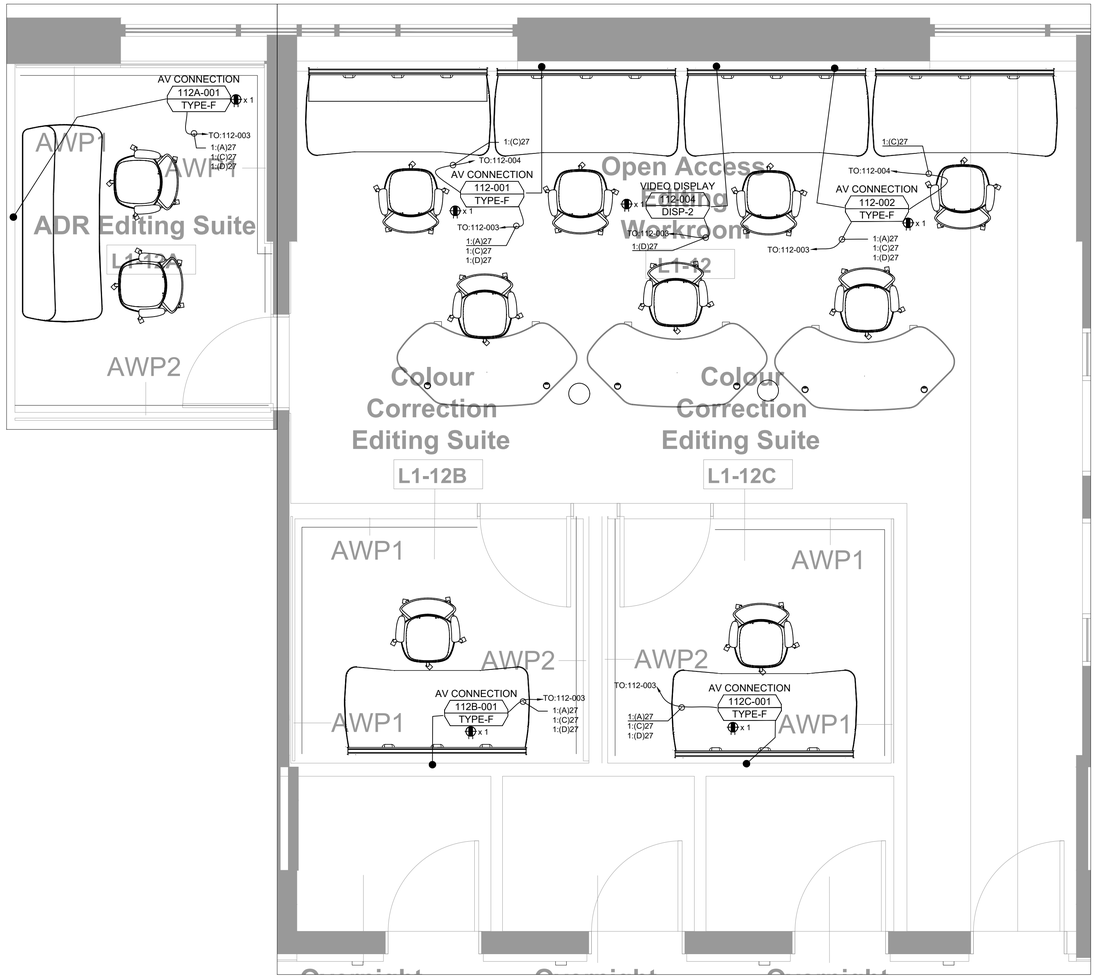
AV SYSTEMS L1 TV STUDIO B AND WORKSHOP TECH OFFICE DEVICE LOCATIONS PLAN AND RCP

Project North

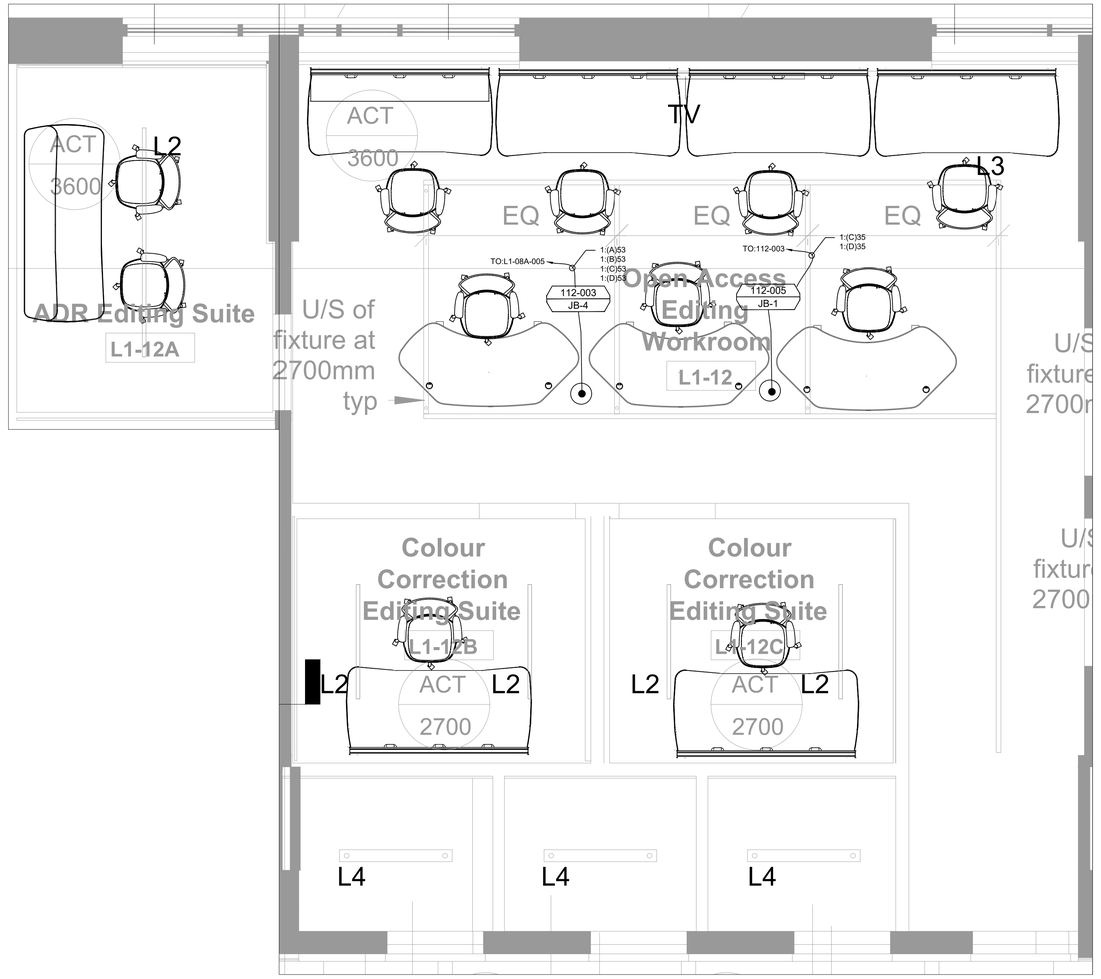
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-202



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

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3	PROGRESS SET	6-Mar-26
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1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

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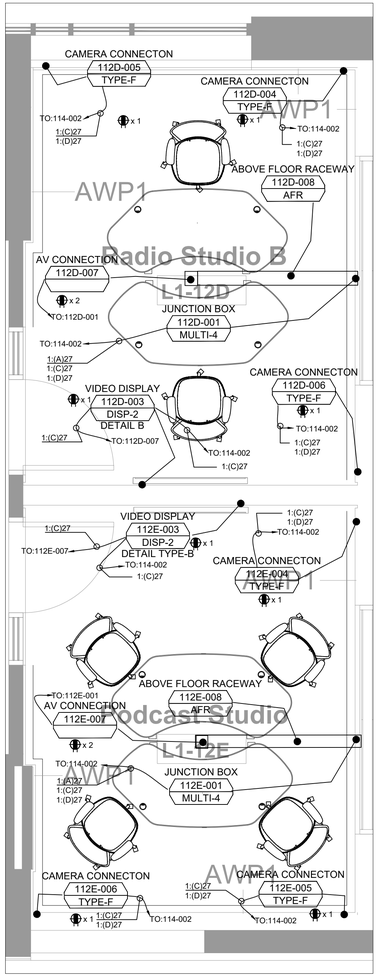
AV SYSTEMS L1 OPEN ACCESS EDITING AND BOOKABLE EDITING SUITES DEVICE LOCATIONS PLAN AND RCP

Project North

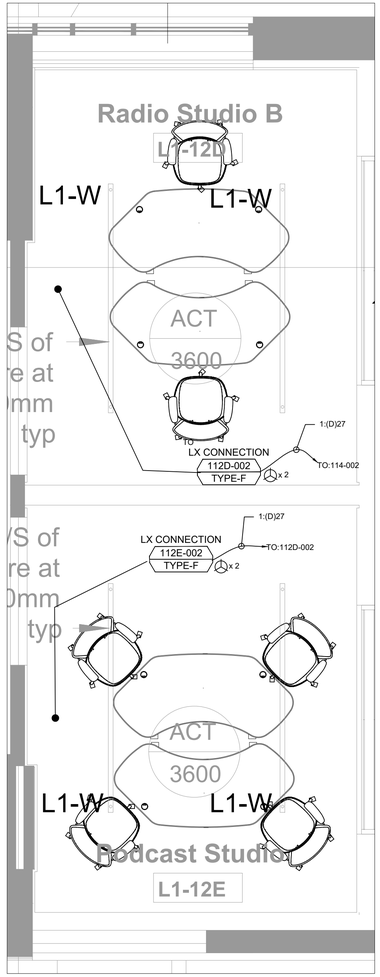
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-203



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

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1	GENERAL ARRANGEMENTS	23-Jan-26

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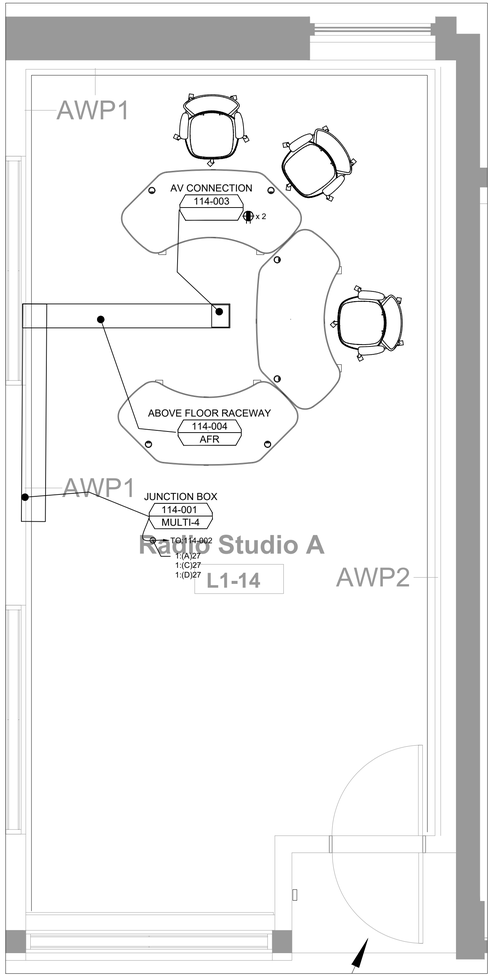
AV SYSTEMS L1 PODCASTING STUDIO A/B DEVICE LOCATIONS PLAN AND RCP

Project North

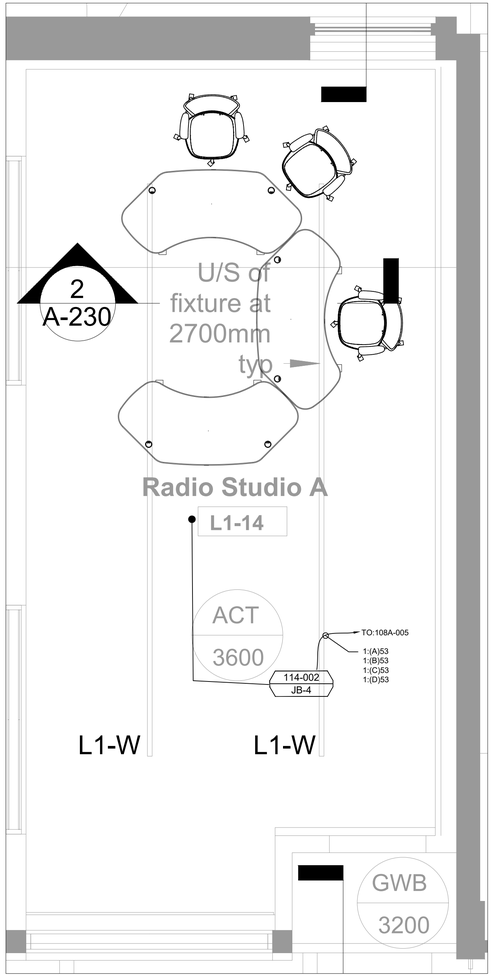
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-204



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:30



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:30

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Centennial Story Arts Centre Relocation

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AV SYSTEMS L1 RADIO STUDIO DEVICE LOCATIONS PLAN AND RCP

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-205

Floor	Room_NO	Box_No	Room	PanelType	BoxSize	MountingHeight	DesignerRemarks	Remarks	TechPower	UtilityPower	Zone	Watts
Level-1	106	106-001	TV Studio A	BH-1	5 Ru Bulkhead	32 In AFF To Bottom Edge	A/V/LX Connection Panel		4 X 120V 20A Technical Power Receptacle NEMA#5-20R			3500
Level-1	106	106-002	TV Studio A	BH-1	5 Ru Bulkhead	32 In AFF To Bottom Edge	A/V/LX Connection Panel		4 X 120V 20A Technical Power Receptacle NEMA#5-20R			3500
Level-1	106	106-003	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	106	106-004	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	A/V Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	106	106-005	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	LX Connection Panel					
Level-1	106	106-006	TV Studio A	JB-4	24 X24 X8 in	Ceiling	Junction Box					
Level-1	106	106-007	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			750
Level-1	106	106-008	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	A/V Connection Panel			1 x 125V 20A Utility Power Receptacle NEMA# L5-20R		
Level-1	106	106-009	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	106	106-010	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	106	106-011	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	106	106-012	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	106	106-013	TV Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	AFF Standard Switch Height	Screen Control					
Level-1	106	106-014	TV Studio A	Type-C	4.5X6.9X2.5	AFF Standard Switch Height	Control Pad					
Level-1	108A	108A-001	CER	Rack	40U Rack	Ceiling	40U A/V Equipment Rack		2X 125V 20A Technical Power Twistlock Receptacle NEMA#L5-20R			3500
Level-1	108A	108A-002	CER	Rack	40U Rack	Ceiling	40U A/V Equipment Rack		2X 125V 20A Technical Power Twistlock Receptacle NEMA#L5-20R			3500
Level-1	108A	108A-003	CER	Rack	40U Rack	Ceiling	40U A/V Equipment Rack		2X 125V 20A Technical Power Twistlock Receptacle NEMA#L5-20R			3500
Level-1	108A	108A-004	CER	BKBRD		Wall	Back Board			1 x 125V 20A Utility Power Receptacle NEMA# L5-20R		1000
Level-1	108A	108A-005	CER	Cable Tray		Ceiling	Cable Tray					
Level-1	108B	108B-001	Audio Control Booth	BH-1	5 Ru Bulkhead	32 In AFF To Bottom Edge	Audio Connection Panel		3 X 120V 20A Technical Power Receptacle NEMA#5-20R			1500
Level-1	108B	108B-002	Audio Control Booth	DISP-2	4.02D X 5.76L X 7.28W in	TBD	Video Display Connection	AV-407	1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-1	108C	108C-001	Announcer Booth	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		3 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	108	108-001	TV Production Control	JB-1	12x12x6 in	Wall	A/V Connection Panel		6 X 120V 20A Technical Power Receptacle NEMA#5-20R			3000
Level-1	108	108-002	TV Production Control	JB-4	24 X24 X8 in	Ceiling	Junction Box					
Level-1	108	108-003	TV Production Control	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			
Level-1	108D	108D-001	Work Shop	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	108D	108D-002	Work Shop	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	110	110-001	TV Studio B	BH-1	5 Ru Bulkhead	32 In AFF To Bottom Edge	A/V/LX Connection Panel		4 X 120V 20A Technical Power Receptacle NEMA#5-20R			3500
Level-1	110	110-002	TV Studio B	BH-1	5 Ru Bulkhead	32 In AFF To Bottom Edge	A/V/LX Connection Panel		4 X 120V 20A Technical Power Receptacle NEMA#5-20R			3500
Level-1	110	110-003	TV Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	A/V Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	110	110-004	TV Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R			1000
Level-1	110	110-005	TV Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	LX Connection Panel					
Level-1	110	110-006	TV Studio B	JB-4	24 X24 X8 in	Ceiling	Junction Box					
Level-1	110	110-007	TV Studio B	DISP-2	4.02D X 5.76L X 7.28W in	TBD	Video Display Connection	AV-405	1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-1	110	110-008	TV Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	110	110-009	TV Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	Audio Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112A	112A-001	ADR Editing Suite	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112	112-001	Open Access Editing	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112	112-002	Open Access Editing	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112	112-003	Open Access Editing	JB-4	24 X24 X8 in	Ceiling	Junction Box					
Level-1	112	112-004	Open Access Editing	DISP-2	3.5X6.9X7.6 in	TBD	Video Display Connection	AV-407	1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-1	112	112-005	Open Access Editing	JB-1	12x12x6 in	Ceiling	Junction Box					
Level-1	112	112-006	Open Access Editing	-	-	Ceiling	Coms Pole					
Level-1	112	112-007	Open Access Editing	-	-	Ceiling	Coms Pole					
Level-1	112B	112B-001	Colour Correction Editing Suite	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112C	112C-001	Colour Correction Editing Suite	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	24 In AFF To Bottom Edge	A/V Connection Panel		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			500
Level-1	112D	112D-001	Podcasting Studio A	MULTI-4	8x8x6 in	Wall	Junction Box					
Level-1	112D	112D-002	Podcasting Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	LX Connection Panel			2 x 125V 20A Utility Power Receptacle NEMA# L5-20R		1000
Level-1	112D	112D-003	Podcasting Studio A	DISP-2	4.02D X 5.76L X 7.28W in	TBD	Video Display Connection	AV-406	1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-1	112D	112D-004	Podcasting Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112D	112D-005	Podcasting Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112D	112D-006	Podcasting Studio A	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112D	112D-007	Podcasting Studio A	-	-	Floor	A/V Connection Box	On Floor Mount	2 X 120V 20A Technical Power Receptacle NEMA#5-20R			200
Level-1	112D	112D-008	Podcasting Studio A	OFR	TBD	Floor	On Floor Raceway	On Floor Race Way				
Level-1	112E	112E-001	Podcasting Studio B	MULTI-4	8x8x6 in	Wall	Junction Box					
Level-1	112E	112E-002	Podcasting Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	Ceiling	LX Connection Panel			2 x 125V 20A Utility Power Receptacle NEMA# L5-20R		1000
Level-1	112E	112E-003	Podcasting Studio B	DISP-2	3.5X6.9X7.6 in	TBD	Video Display Connection	AV-406	1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-1	112E	112E-004	Podcasting Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112E	112E-005	Podcasting Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112E	112E-006	Podcasting Studio B	Type-F	4-11/16 X 4-11/16 X 2-1/8 in	TBD	Camera Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			100
Level-1	112E	112E-007	Podcasting Studio A	-	-	Floor	A/V Connection Box	On Floor Mount	2 X 120V 20A Technical Power Receptacle NEMA#5-20R			200
Level-1	112E	112E-008	Podcasting Studio A	OFR	TBD	Floor	On Floor Raceway	On Floor Race Way				
Level-1	114	114-001	Radio Studio	MULTI-4	8x8x6 in	Wall	Junction Box					1500
Level-1	114	114-002	Radio Studio	JB-4	24 X24 X8 in	Ceiling	Junction Box					1500
Level-1	114	114-003	Radio Studio	-	-	Floor	A/V Connection Box	On Floor Mount	2 X 120V 20A Technical Power Receptacle NEMA#5-20R			200
Level-1	114	114-004	Radio Studio	OFR	TBD	Floor	On Floor Raceway	On Floor Race Way				

1 AV SYSTEMS LEVEL 1 DEVICE SCHEDULE
SCALE: 1:30

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engineering HARMONICS

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1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

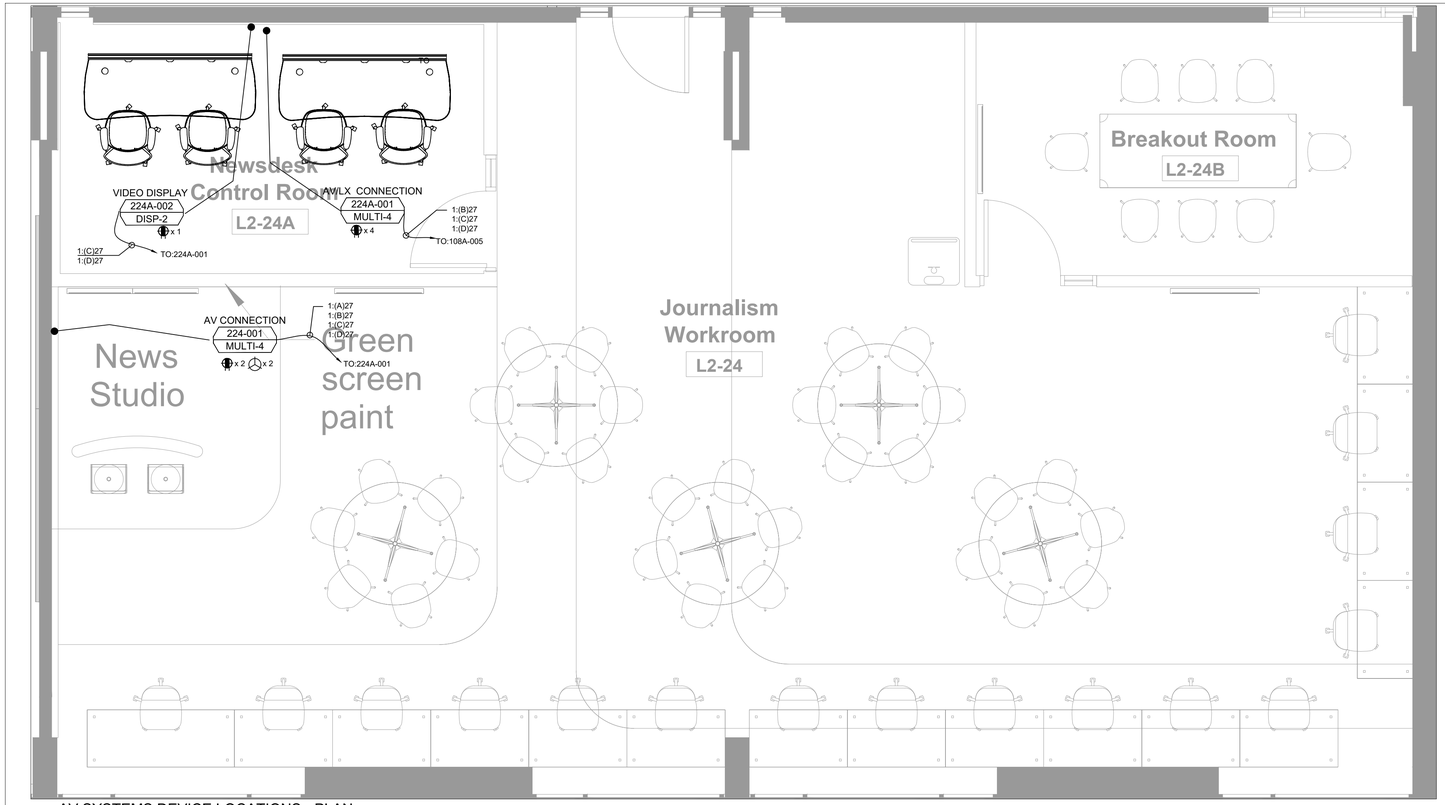
AV SYSTEMS L1 DEVICE SCHEDULE

Project North

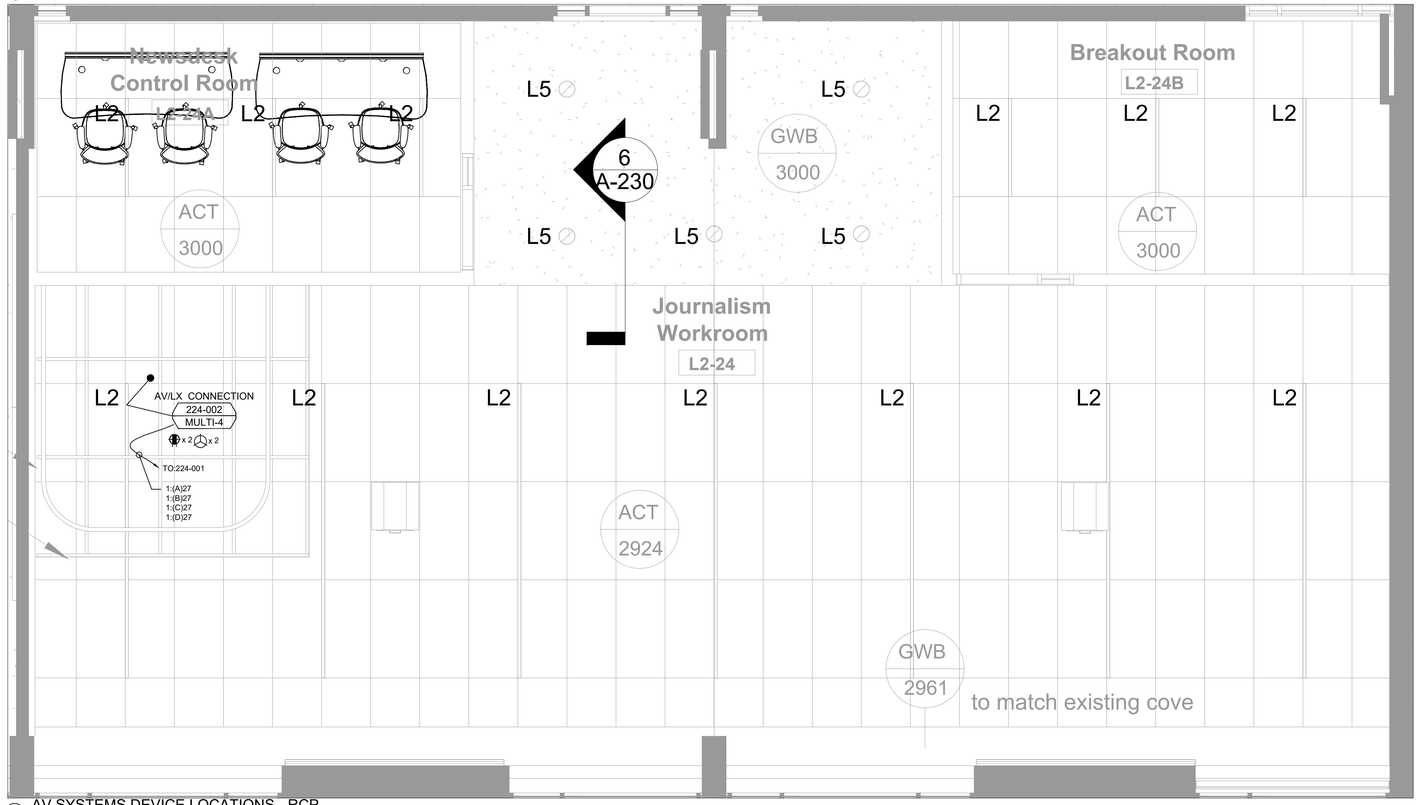
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-206



1 AV SYSTEMS DEVICE LOCATIONS - PLAN
SCALE: 1:35



2 AV SYSTEMS DEVICE LOCATIONS - RCP
SCALE: 1:35

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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

AV SYSTEMS L2 SMALL GROUP COLLAB-NEWS STUDIO AND BREAKOUT RM DEVICE LOCATIONS, PLAN AND RCP

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-215

Floor	Room_NO	Box_No	Room	PanelType	BoxSize	MountingHeight	DesignerRemarks	Remarks	TechPower	UtilityPower	Zone	Watts
Level-2	224A	224A-001	News Desk Control Room	MULTI-4	8x8x6 in	24 In AFF To Bottom Edge	A/V/LX Connection Panel		4 X 120V 20A Technical Power Receptacle NEMA#5-20R			2000
Level-2	224A	224A-002	News Desk Control Room	DISP-2	4.02D X 5.76L X 7.28W in	TBD	Video Display Connection		1 X 120V 20A Technical Power Receptacle NEMA#5-20R			250
Level-2	224	224-001	News Studio	MULTI-4	8x8x6 in	24 In AFF To Bottom Edge	A/V/LX Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R	2 x 125V 20A Utility Power Receptacle NEMA# L5-20R		2500
Level-2	224	224-002	News Studio	MULTI-4	8x8x6 in	Ceiling	A/V/LX Connection Panel		2 X 120V 20A Technical Power Receptacle NEMA#5-20R	4 x 125V 20A Utility Power Receptacle NEMA# L5-20R		3500

1 AV SYSTEMS LEVEL 2 DEVICE SCHEDULE
SCALE: 1:35

GOW HASTINGS ARCHITECTS

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engineering HARMONICS

No.	ISSUED/REVISED	DATE
4	ISSUED FOR GC TENDER	23-Mar-26
3	PROGRESS SET	6-Mar-26
2	PROGRESS SET	20-Feb-26
1	GENERAL ARRANGEMENTS	23-Jan-26

Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

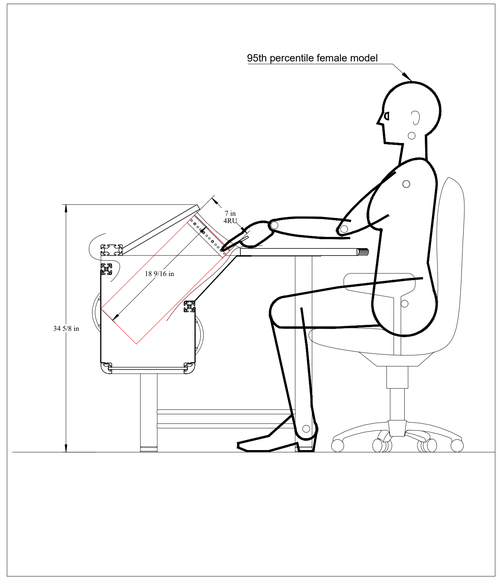
AV SYSTEMS L2 DEVICE SCHEDULE

Project North

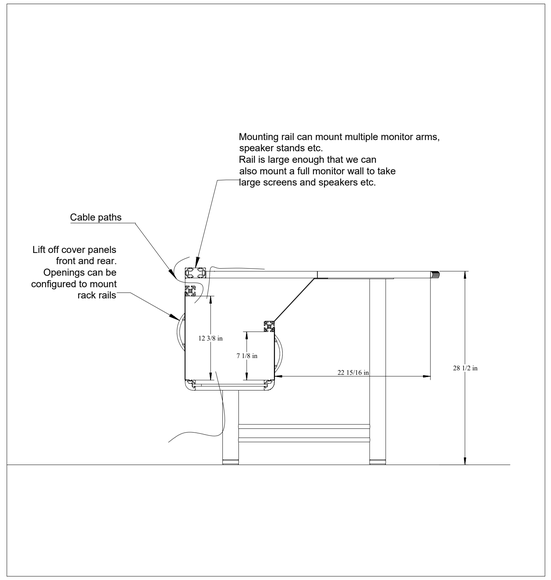
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-216



1 TECHNICAL DESK CONCEPT SECTION AT 4RU EQUIPMENT BAY
SCALE: N.T.S.



2 TECHNICAL DESK CONCEPT SECTION AT DESK FILLER
SCALE: N.T.S.

3 TYPICAL MONITOR DISPLAY MOUNT DESK CONCEPT
SCALE: N.T.S.

4 TECHNICAL DESK CONCEPT
SCALE: N.T.S.

5 TYPICAL LARGE DESK CONCEPT
SCALE: N.T.S.

6 TYPICAL WIDE DESK WITH RACK AND MONITOR MOUNTING CONCEPT
SCALE: N.T.S.

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1	PROGRESS SET	20-Feb-26

Centennial Story Arts Centre Relocation

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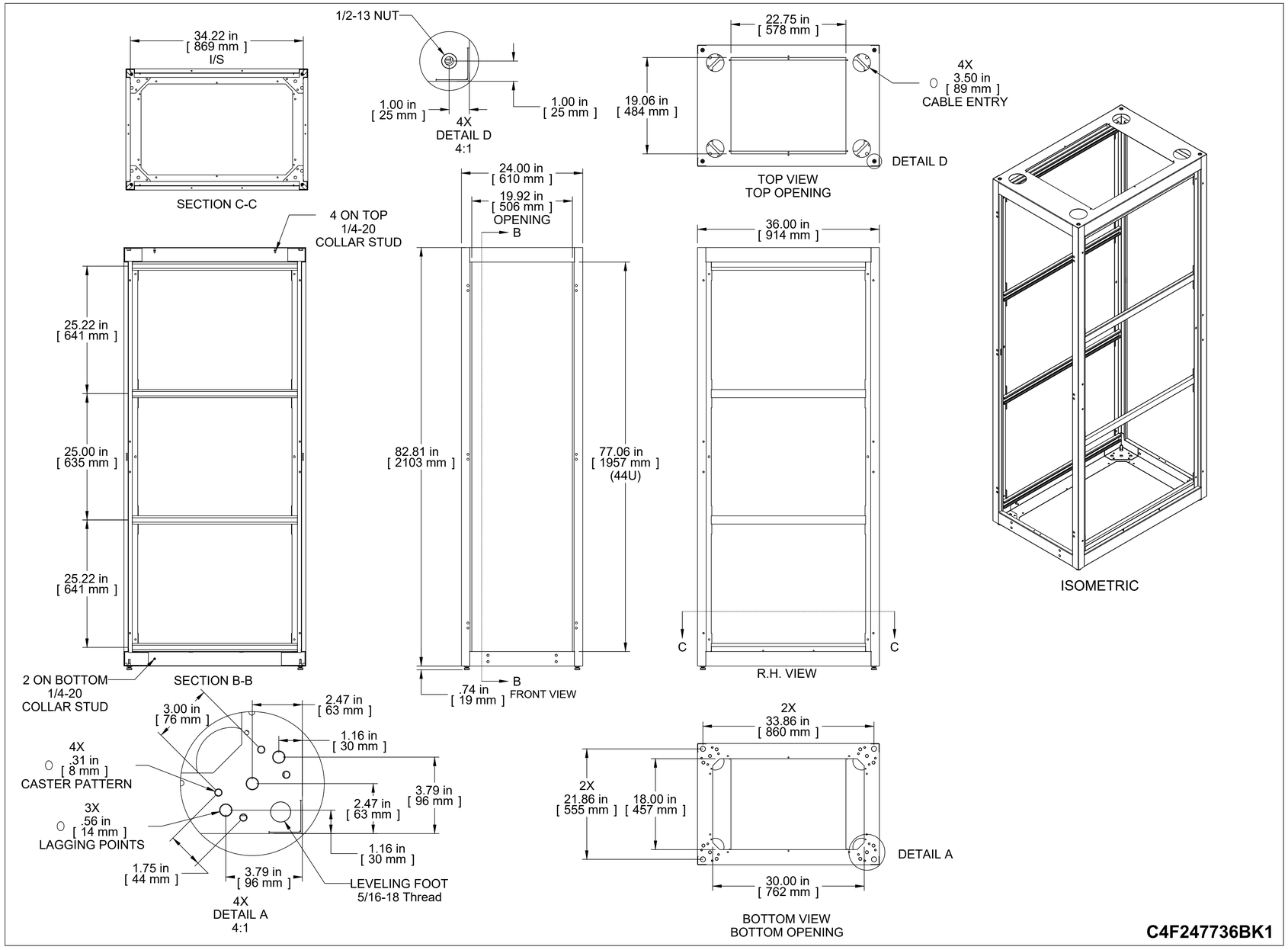
AV SYSTEMS DETAILS DESK CONCEPTS

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-400



1 CER EQUIPMENT RACK
SCALE: N.T.S.

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Centennial Story Arts Centre
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941 Progress Ave, Scarborough, ON, M1G 3T8

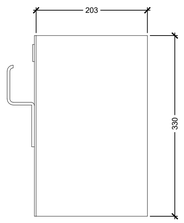
AV SYSTEMS DETAILS
RACK DETAILS

Project North

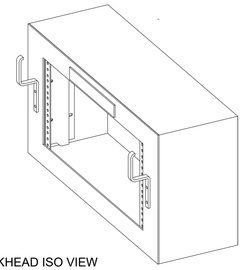
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

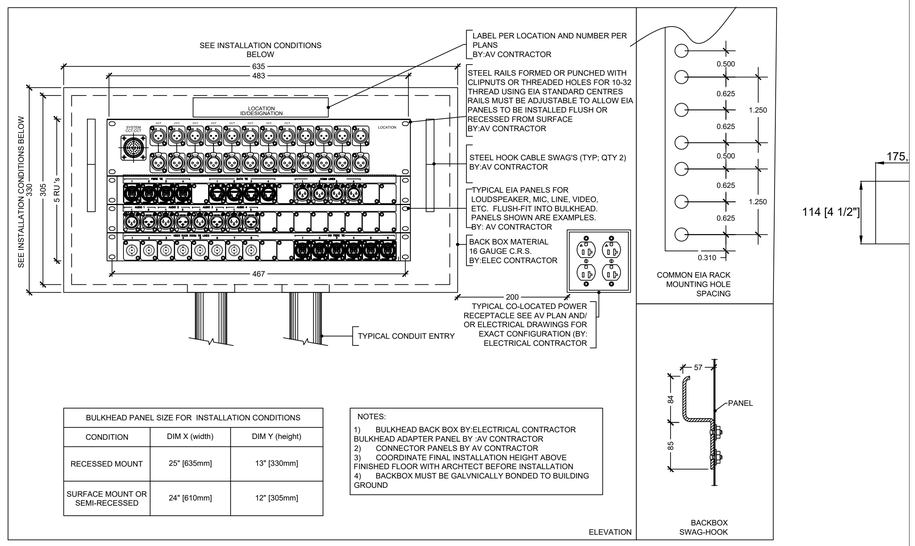
AV-401



BULKHEAD SIDE VIEW



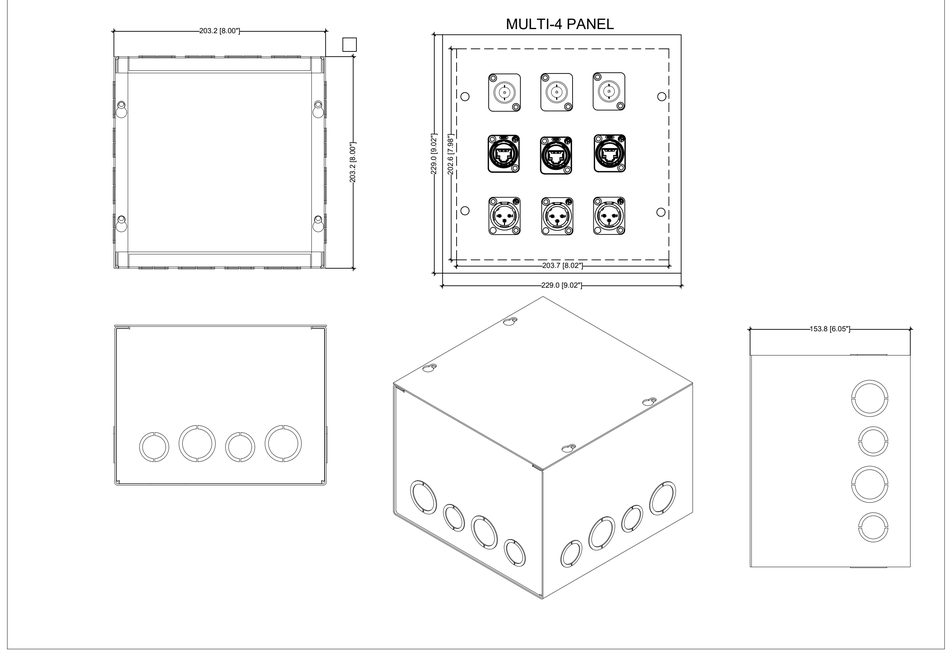
BULKHEAD ISO VIEW



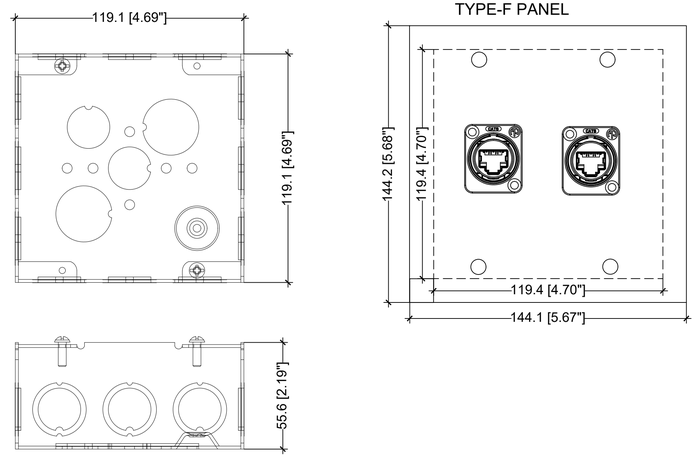
BULKHEAD PANEL SIZE FOR INSTALLATION CONDITIONS		
CONDITION	DIM X (width)	DIM Y (height)
RECESSED MOUNT	25" [635mm]	13" [330mm]
SURFACE MOUNT OR SEMI-RECESSED	24" [610mm]	12" [305mm]

NOTES:
1) BULKHEAD BACK BOX BY:ELECTRICAL CONTRACTOR
BULKHEAD ADAPTER PANEL BY :AV CONTRACTOR
2) CONNECTOR PANELS BY AV CONTRACTOR
3) COORDINATE FINAL INSTALLATION HEIGHT ABOVE FINISHED FLOOR WITH ARCHTECT BEFORE INSTALLATION
4) BACKBOX MUST BE GALVNICALLY BONDED TO BUILDING GROUND

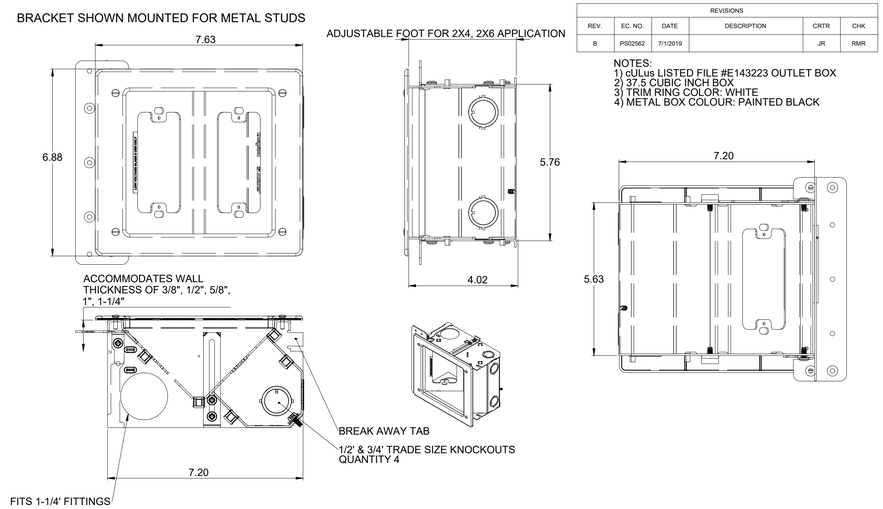
1 BH-1 BACK BOX AND PANEL
SCALE: N.T.S.



2 MULTI-4 BACKBOX AND PANEL
SCALE: N.T.S.



3 TYPE-F BACKBOX AND PANEL
SCALE: N.T.S.



REVISIONS					
REV.	EC. NO.	DATE	DESCRIPTION	CRTR	CHK
B	PS02562	7/1/2019		JR	RMR

4 DISP-2 BACKBOX
SCALE: N.T.S.

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR GC TENDER	23-Mar-26
2	PROGRESS SET	6-Mar-26
1	PROGRESS SET	20-Feb-26

Centennial Story Arts Centre Relocation

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AV SYSTEMS PANEL AND BOX DETAILS

Project North

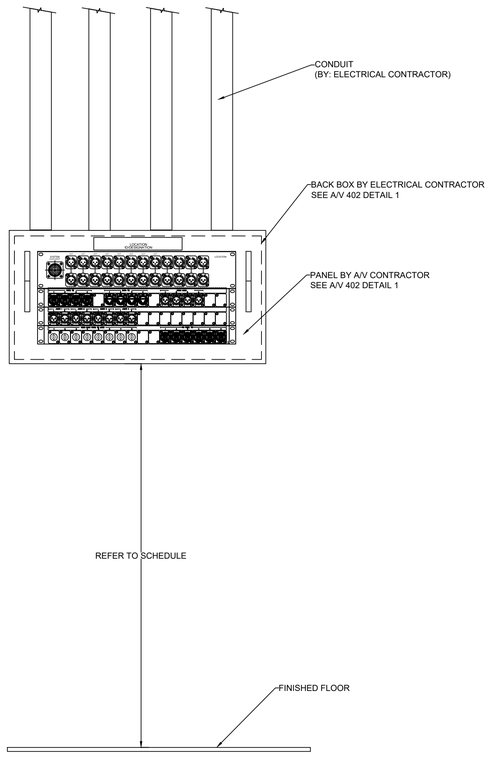
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-402

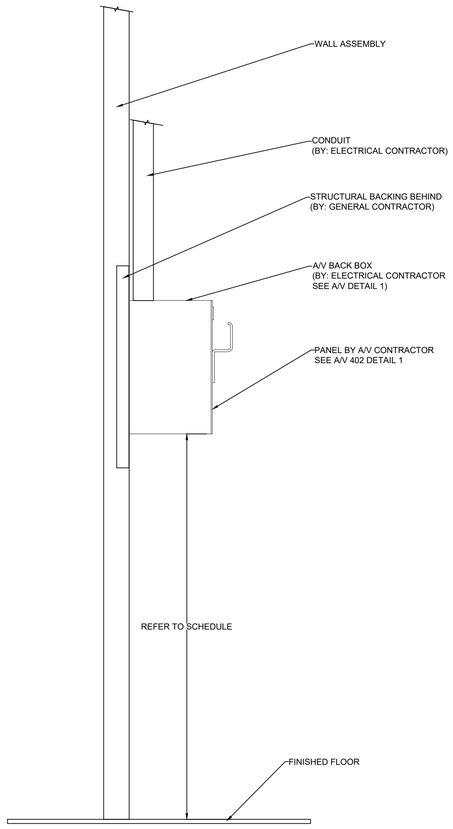
BH-1 SURFACE WALL MOUNT ELEVATION

BH-1



BH-1 SURFACE WALL MOUNT SECTION

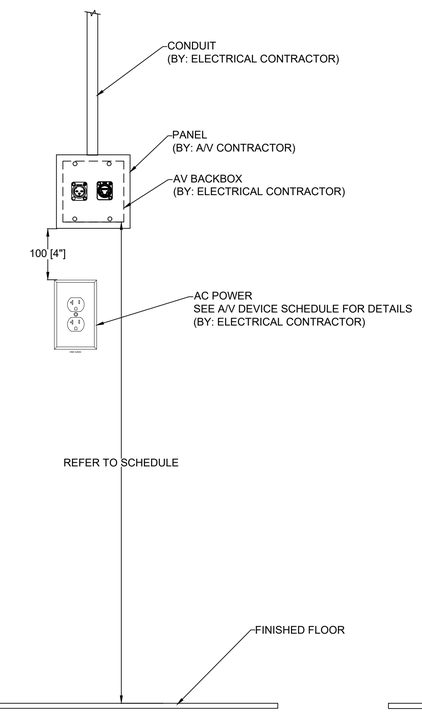
BH-1



1 BH-1 INSTALLATION DETAIL
SCALE: N.T.S.

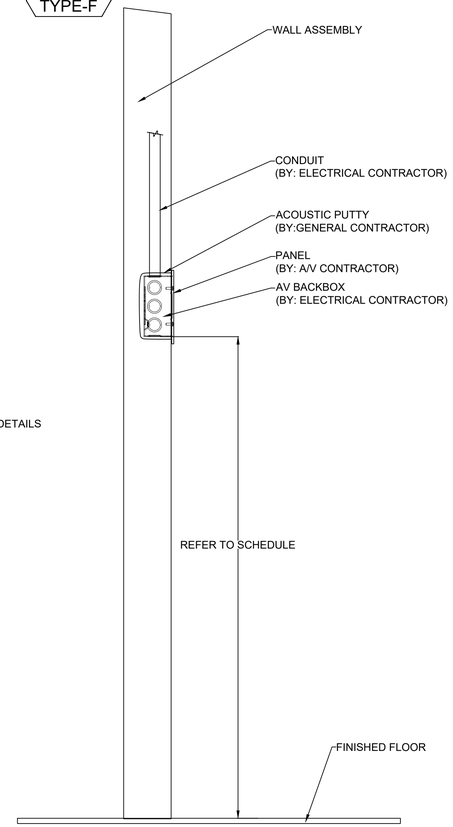
TYPE-F FLUSH WALL MOUNT ELEVATION

TYPE-F

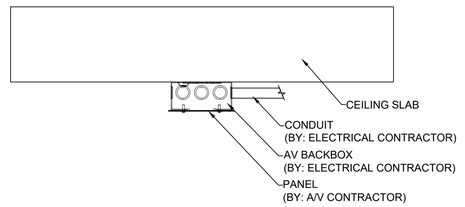


TYPE-F FLUSH WALL MOUNT SECTION

TYPE-F



TYPE-F SURFACE CEILING MOUNT SECTION



2 TYPE-F INSTALLATION DETAIL
SCALE: N.T.S.

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engineering HARMONICS

No.	ISSUED/REVISED	DATE
3	ISSUED FOR GC TENDER	23-Mar-26
2	PROGRESS SET	6-Mar-26
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Centennial Story Arts Centre Relocation

941 Progress Ave, Scarborough, ON, M1G 3T8

AV SYSTEMS INSTALLATION DETAILS

Project North

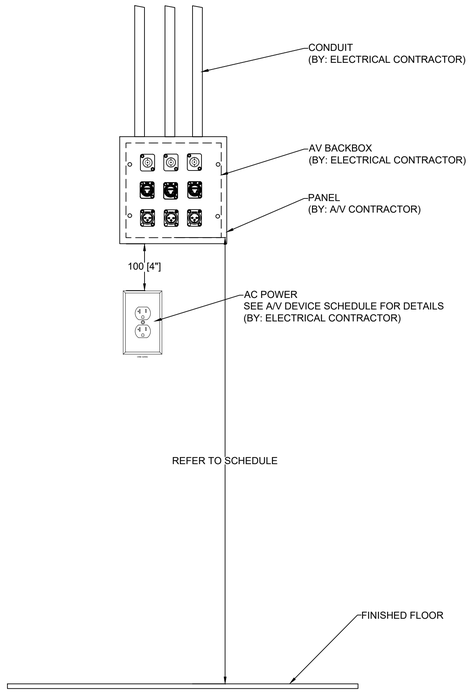
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-403

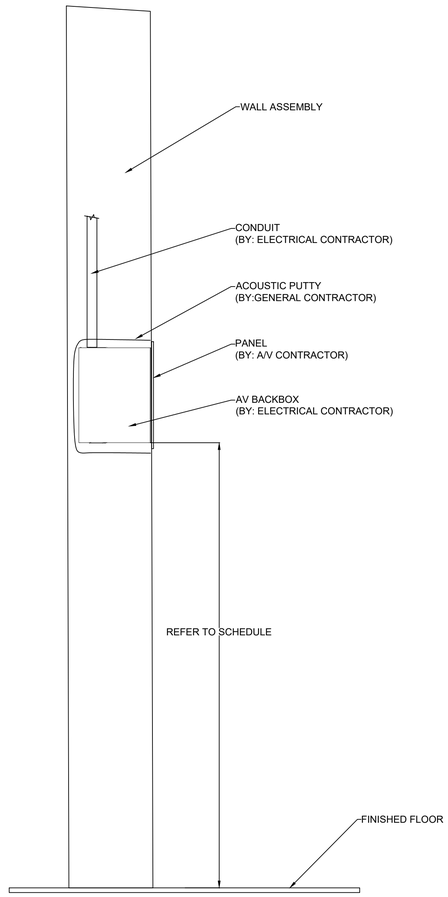
MULTI-4 FLUSH WALL MOUNT ELEVATION

MULTI-4

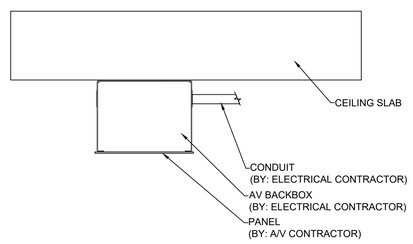


MULTI-4 FLUSH WALL MOUNT SECTION

MULTI-4



MULTI-4 SURFACE CEILING MOUNT SECTION



1 MULTI-4 INSTALLATION DETAIL
SCALE: N.T.S.

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Centennial Story Arts Centre Relocation

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AV SYSTEMS INSTALLATION DETAILS

Project North

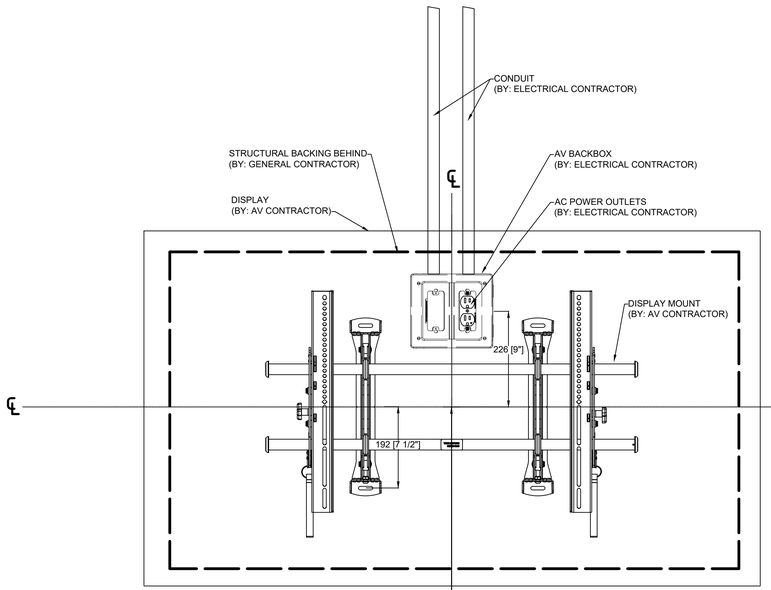
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-404

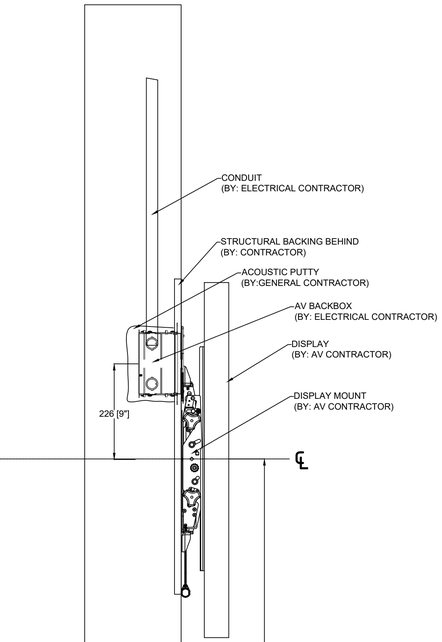
INSTALLATION DETAIL DISP-2 TYPE-A 65" DISPLAY ELEVATION

DISP-2



INSTALLATION DETAIL DISP-2 TYPE-A 65" DISPLAY SECTION

DISP-2



1 DISP-2 INSTALLATION DETAIL-A 65" DISPLAY
SCALE: N.T.S.

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No.	ISSUED/REVISED	DATE
3	ISSUED FOR GC TENDER	23-Mar-26
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Centennial Story Arts Centre Relocation

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AV SYSTEMS INSTALLATION DETAILS

Project North

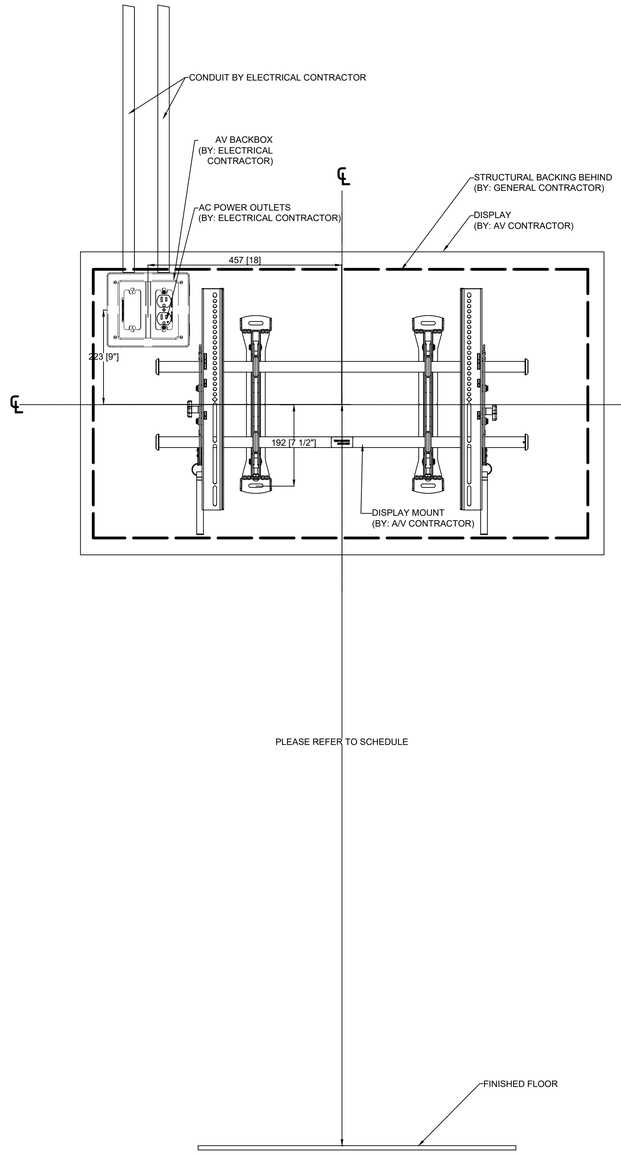
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-405

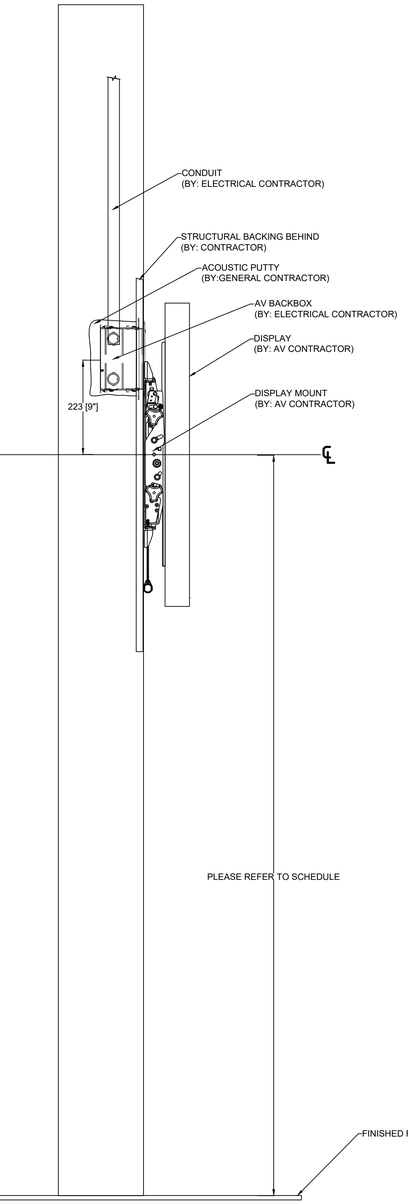
INSTALLATION DETAIL DISP-2 TYPE-B 55" DISPLAY ELEVATION

DISP-2



INSTALLATION DETAIL DISP-2 TYPE-B 55" DISPLAY SECTION

DISP-2



1 DISP-2 INSTALLATION DETAIL-B 55" DISPLAY
SCALE: N.T.S.

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No.	ISSUED/REVISED	DATE
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Centennial Story Arts Centre Relocation

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AV SYSTEMS INSTALLATION DETAILS

Project North

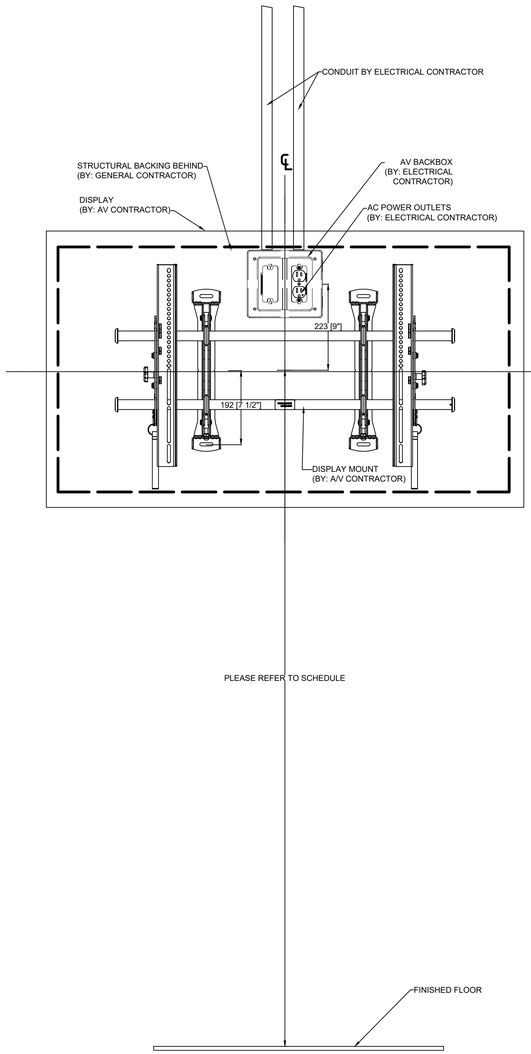
Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-406

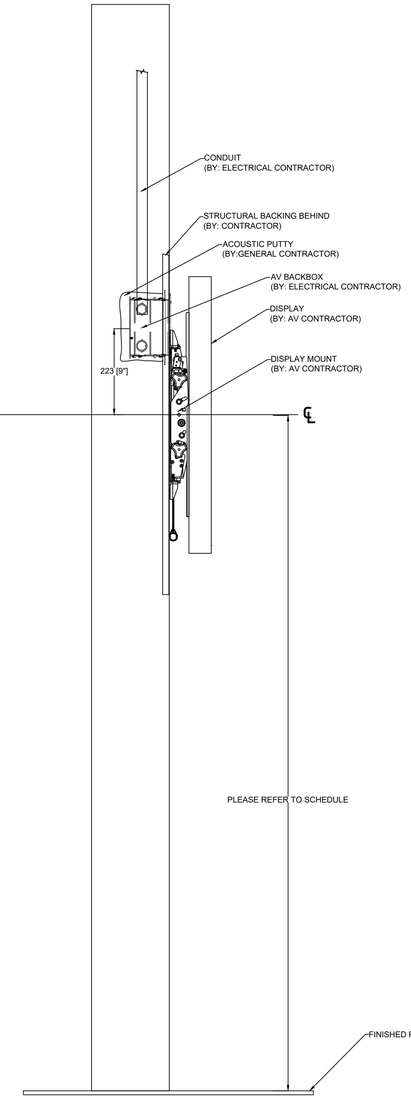
INSTALLATION DETAIL DISP-2 TYPE-C 55" DISPLAY ELEVATION

DISP-2



INSTALLATION DETAIL DISP-2 TYPE-C 55" DISPLAY SECTION

DISP-2



1 DISP-2 INSTALLATION DETAIL- C 55" DISPLAY
SCALE: N.T.S.

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Centennial Story Arts Centre Relocation

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AV SYSTEMS INSTALLATION DETAILS

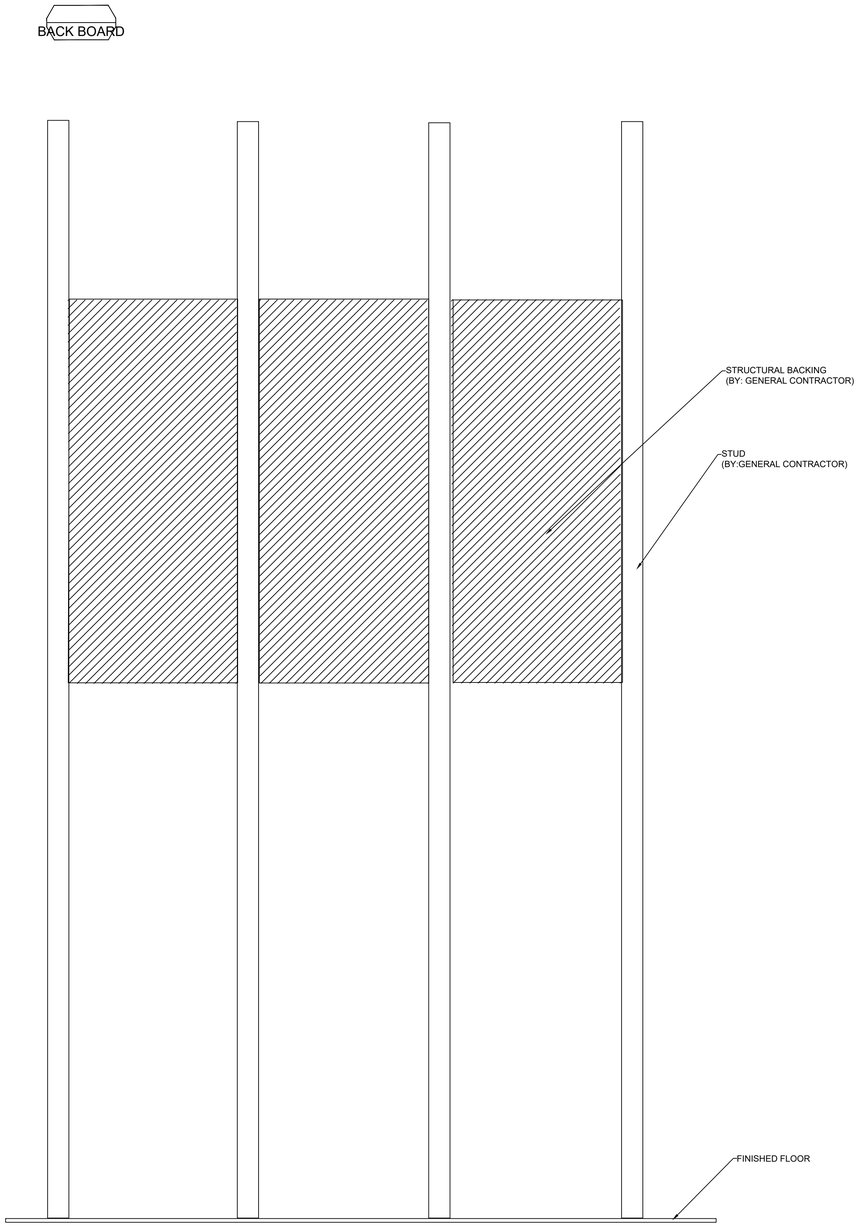
Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-407

BACK BOARD ELEVATION DETAIL



1 INSTALLATION DETAIL BACK BOARD
SCALE: N.T.S.

GOW HASTINGS ARCHITECTS

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Centennial Story Arts Centre
Relocation

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AV SYSTEMS INSTALLATION DETAILS

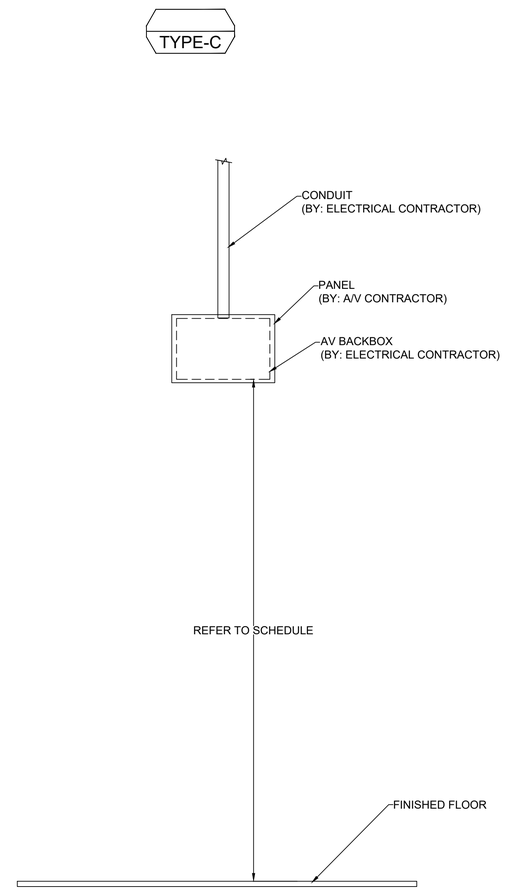
Project North

Scale: AS NOTED

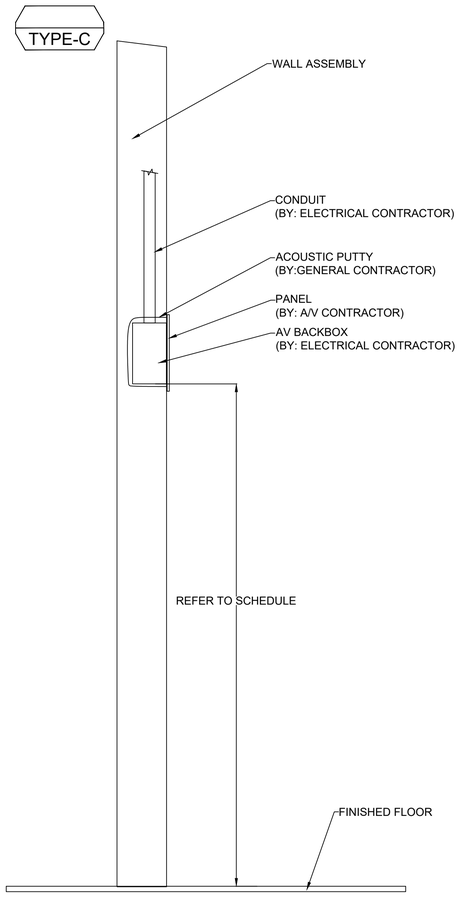
Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-408

TYPE-C FLUSH WALL MOUNT ELEVATION



TYPE-C FLUSH WALL MOUNT SECTION



1 TYPE-C INSTALLATION DETAIL
SCALE: N.T.S.

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Centennial Story Arts Centre Relocation

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AV SYSTEMS INSTALLATION DETAILS

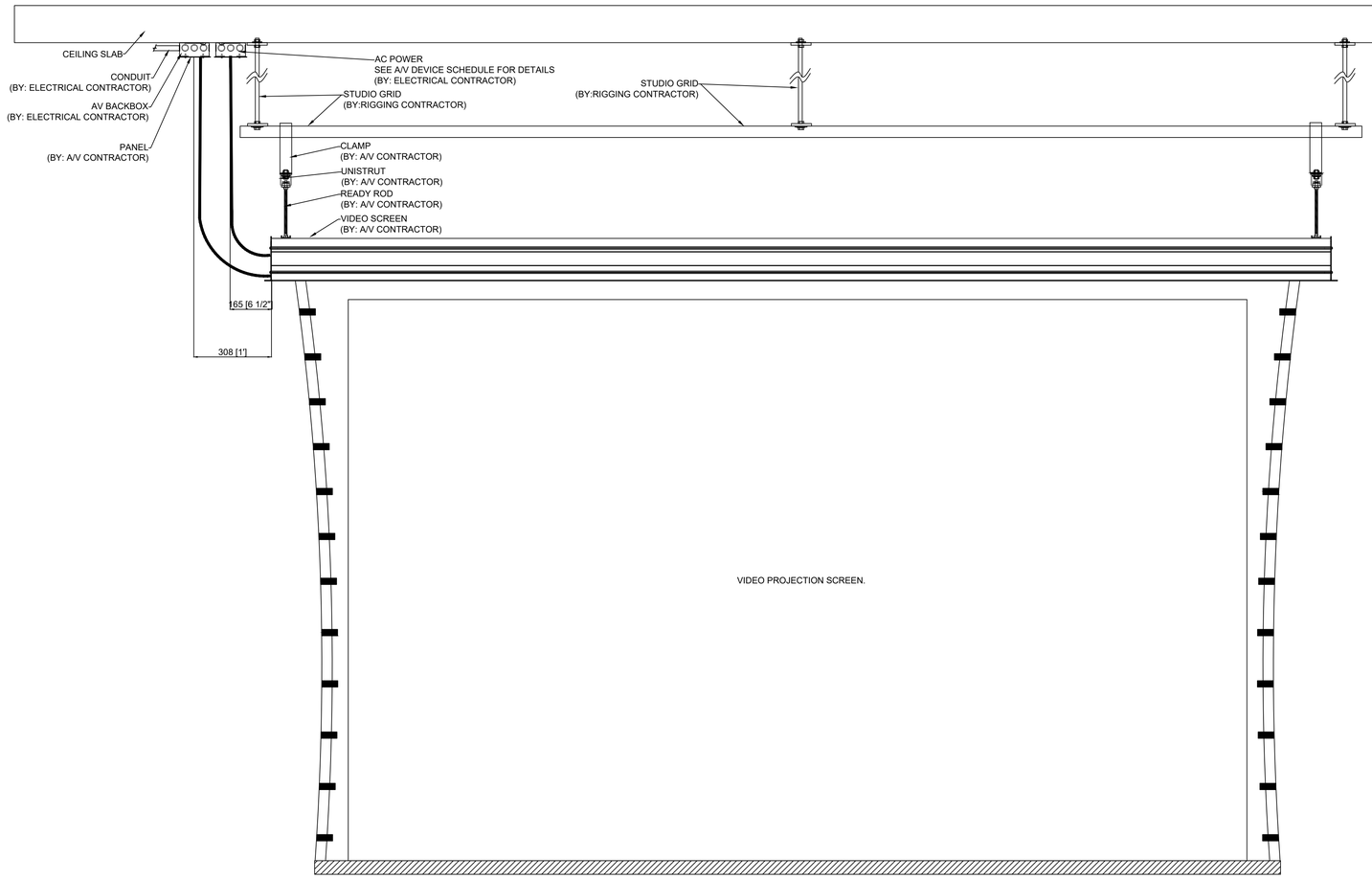
Project North

Scale: AS NOTED

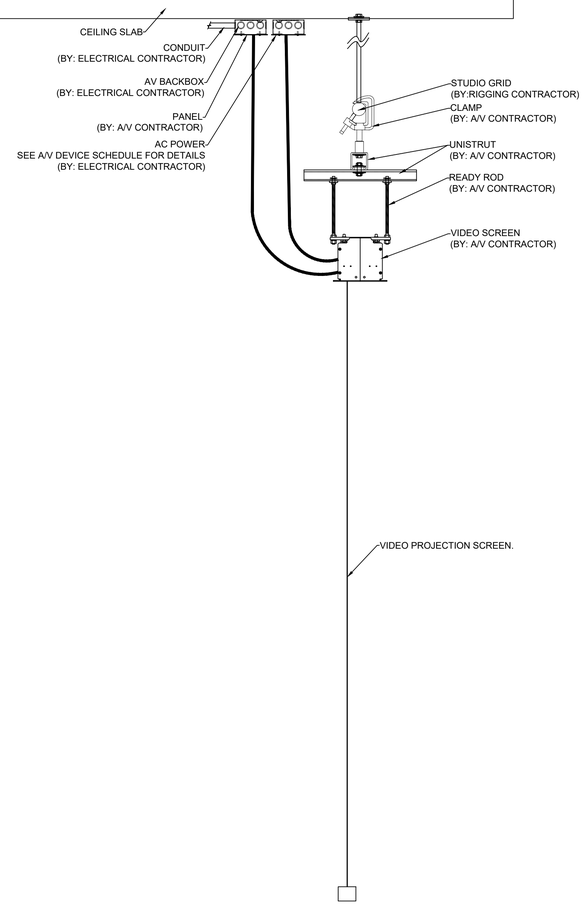
Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-409

VIDEO SCREEN STUDIO GRID MOUNT ELEVATION



VIDEO SCREEN STUDIO GRID MOUNT SECTION



1 VIDEO SCREEN INSTALLATION DETAIL
SCALE: N.T.S.

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AV SYSTEMS INSTALLATION DETAILS

Project North

Scale: AS NOTED

Project Number: 25401	
Drawn By: -	
Checked By: -	

AV-410