

# NATIONAL RESEARCH COUNCIL CANADA MONTREAL ROAD CAMPUS

## M-19 ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT

### DRAWING LIST

COVER SHEET

### ARCHITECTURAL

DEMOLITION: FLOOR PLAN, REFLECTED CEILING PLAN, AND FURNITURE PLAN

CONSTRUCTION: FLOOR PLAN AND REFLECTED CEILING PLAN

FINISHES FLOOR PLAN AND FURNITURE FLOOR PLAN

FURNITURE DETAILS

MILLWORK ELEVATIONS, SECTIONS AND DETAILS

DOOR DETAILS AND SCHEDULE, AND FINISHES DETAILS AND SCHEDULES

### MECHANICAL

DEMOLITION PLANS: DUCTWORK, PIPING

NEW CONSTRUCTION PLANS: DUCTWORK, PIPING

LEGENDS, SCHEDULES, DIAGRAMS, AND DETAILS

### ELECTRICAL

LEGENDS, SCHEDULES AND DETAILS

DEMOLITION: LIGHTING AND FIRE ALARM, POWER AND SYSTEMS LAYOUT

NEW WORK: LIGHTING AND FIRE ALARM, POWER AND SYSTEMS LAYOUT

SOUND MASKING SYSTEM

### DRAWING No.

6009-CS1

6009-A01

6009-A02

6009-A03

6009-A04

6009-A05

6009-A06

6009-M01

6009-M02

6009-M03

6009-E01

6009-E02

6009-E03

6009-E04

LEGEND APPLICABLE TO ALL ARCHITECTURAL DRAWINGS	
	DRAWING NOTE
	ELEVATION REFERENCE
	DETAIL NUMBER
	SECTION DETAIL REFERENCE
	DRAWING NUMBER
	DETAIL REFERENCE
	ROOM NUMBER
	CUBICLE ID NUMBER
	DOOR TAG
	PARTITION TYPE
	ELEVATION HEIGHT
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	NEW WALL

### GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

### KEY PLAN PLAN CLÉ

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2	30/05/2022	ISSUED FOR TENDER	SWH
1	4/03/2022	ISSUED FOR 66% REVIEW	JDG
No.	Date	Revision	By/Par.
Date Printed 4/03/2022		Date imprimée	

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

	A Detail no. No. du détail	
	B Location drawing no. sur dessin no.	
	C Drawing no. dessin no.	

project: M-19 ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT

MONTREAL ROAD CAMPUS

drawing: COVER PAGE

designed: SWH conçu: MAY 2022 date

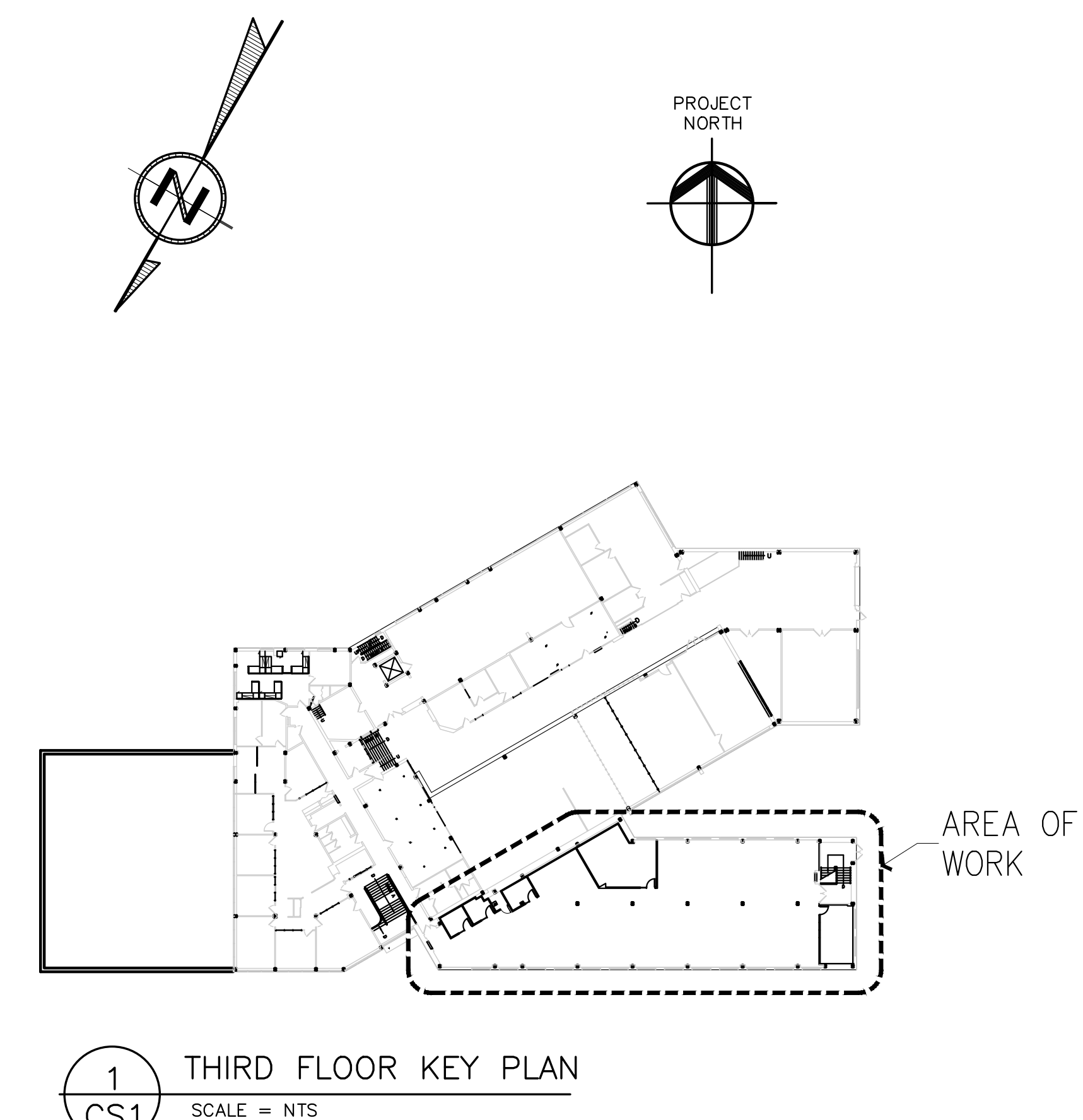
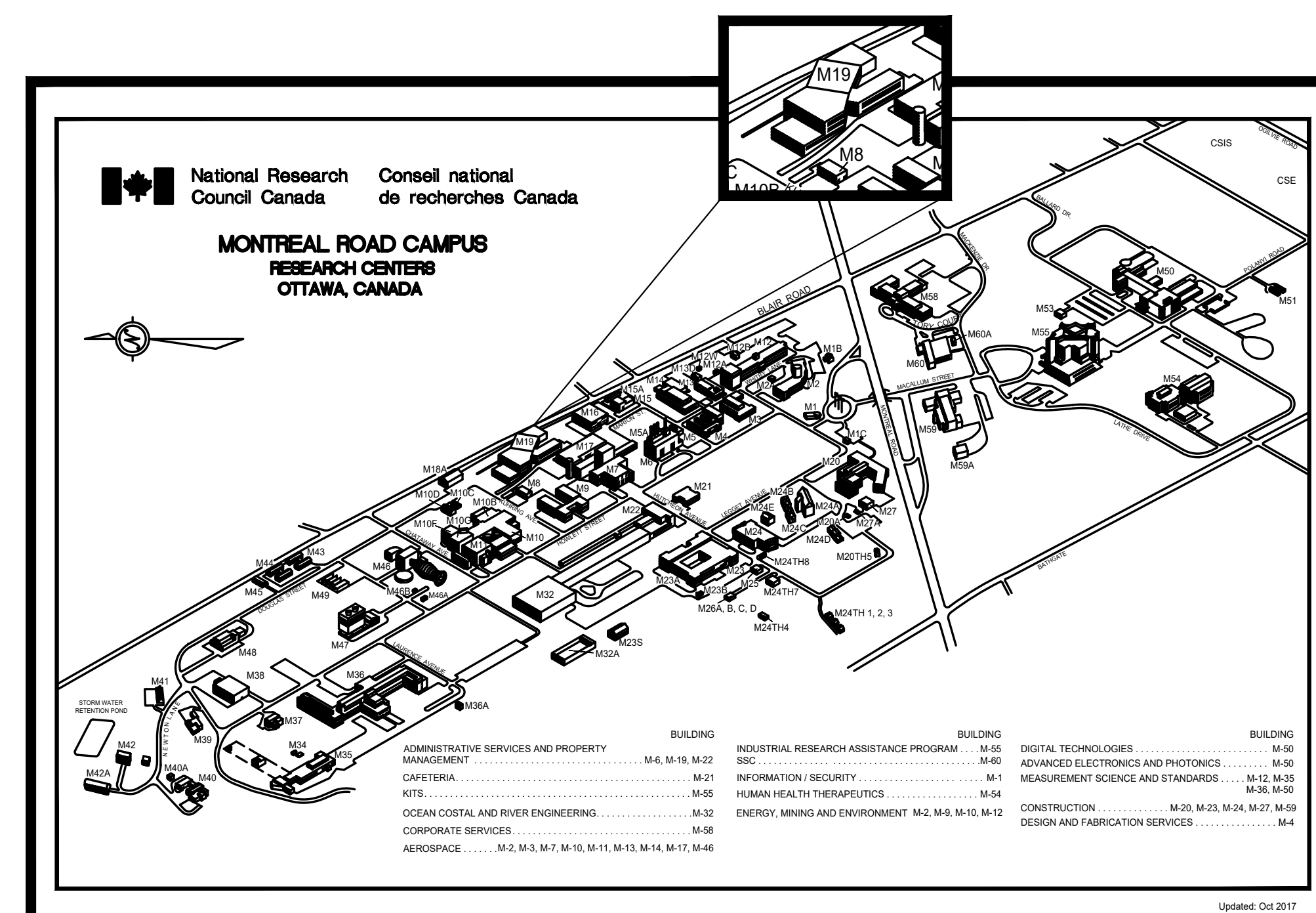
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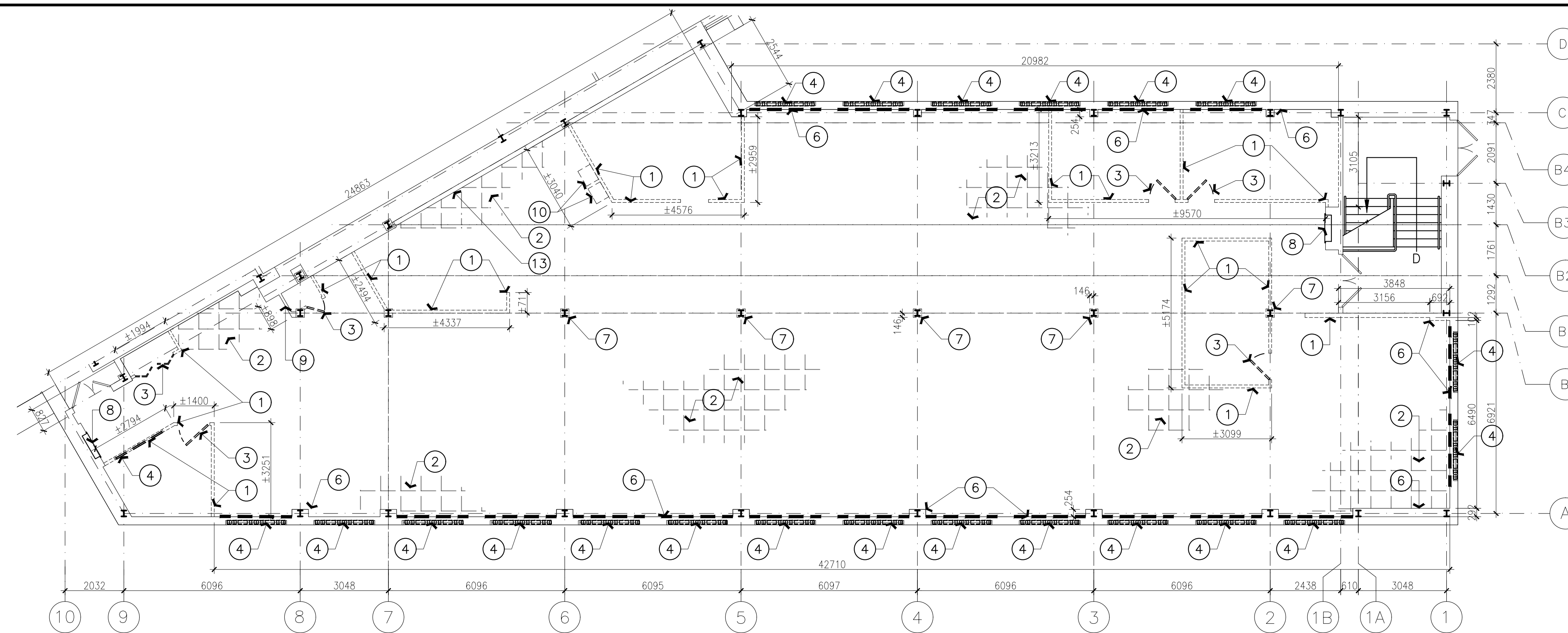
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approved: JD approuvé: W.O.no. D.T.no.

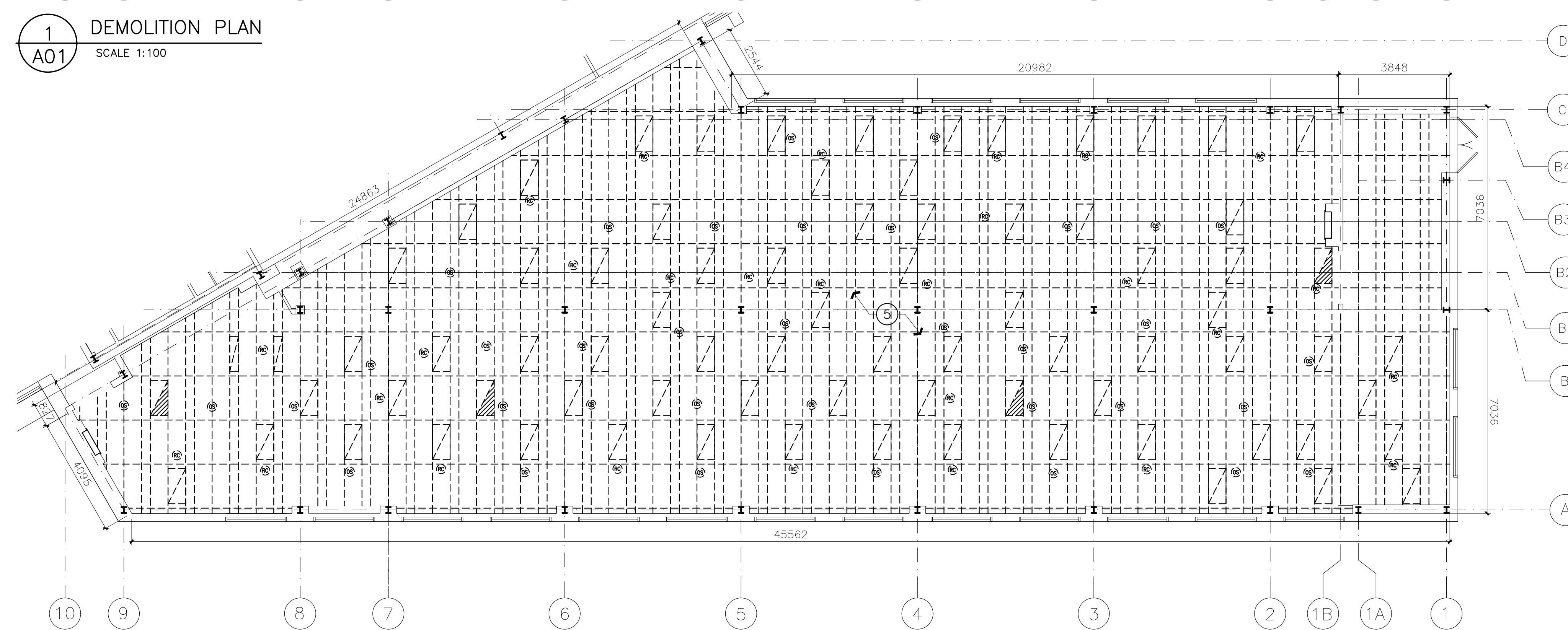
dwg.no. 6009-CS1 dessin no.

ABBREVIATIONS			
ACP	ACOUSTIC CEILING PANEL	HM	HOLLOW METAL
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
CONC	CONCRETE	O.C.	ON CENTER
CPT	CARPET	PS	PRESSED STEEL
CMU	CONCRETE MASONRY UNIT	PT	PAINT
C/W	COMPLETE WITH	PCT	PAINTED CONCRETE TOPPING
DMNT	DEMOUNTABLE	REV	REVERSE
DWG	DRAWING	RWB	RESILIENT WALL BASE
(E)	EXISTING	SIM	SIMILAR
FFL	FINISHED FLOOR LEVEL	SP	SPRINKLER HEAD
GB	GYPSUM BOARD	U/S	UNDERSIDE
		TYP	TYPICAL
		NIC	NOT IN CONTRACT

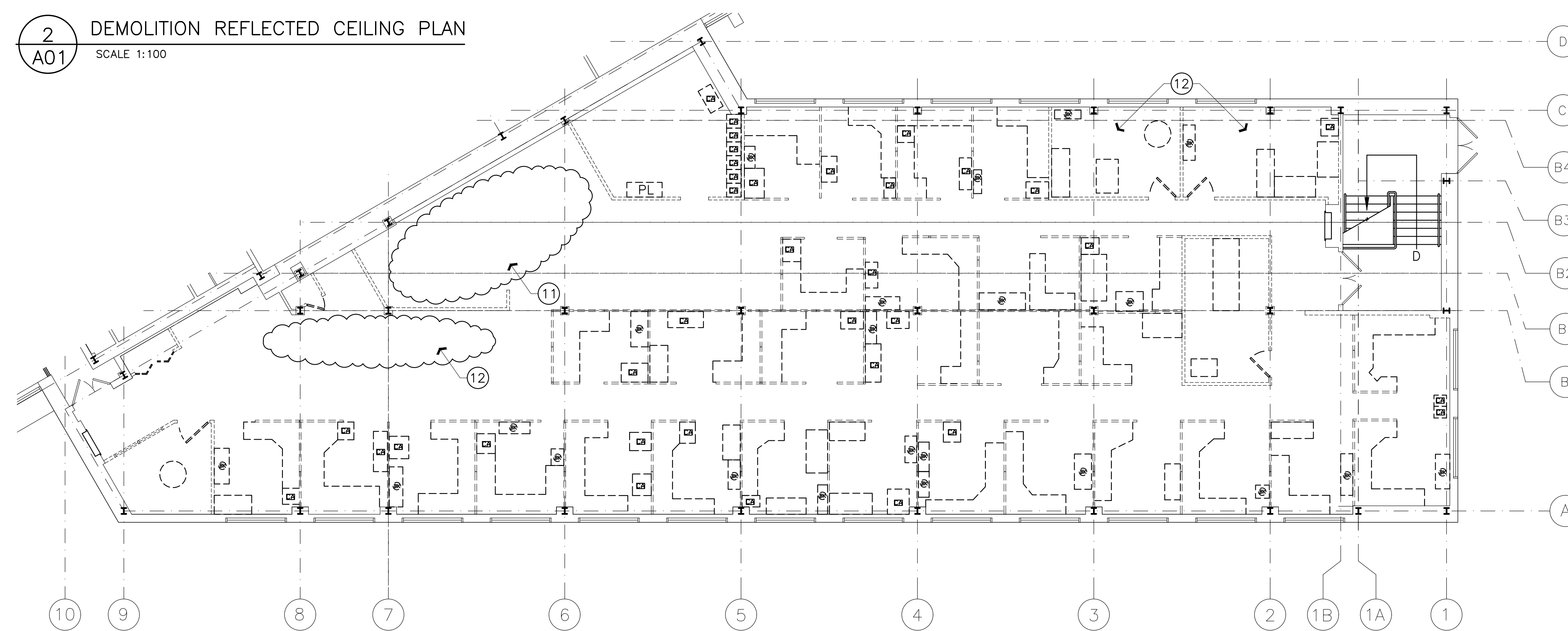




**1** DEMOLITION PLAN  
A01 SCALE 1:100



**2** DEMOLITION REFLECTED CEILING PLAN  
A01 SCALE 1:100



**3** DEMOLITION FURNITURE PLAN  
A01 SCALE 1:100

**DEMOLITION NOTES**

SHEET A01 ONLY

1. **EXISTING INTERIOR GYPSUM BOARD AND PC350 PARTITIONS:**
  - REMOVE AND DISPOSE OF OFF SITE EXISTING PC350 PARTITIONS, BATTENS, CLIPS, FRAMING AND BASEBOARDS. REMOVE INSULATION AS REQUIRED.
  - REMOVE AND DISPOSE OF OFF SITE EXISTING INTERIOR WINDOWS GLAZING, FRAMES, AND BATTENS.
2. **EXISTING CARPET TILES:**
  - CAREFULLY REMOVE ALL EXISTING CARPET TILES ACROSS ENTIRE FLOOR AREA IN SCOPE OF WORK.
  - RETAIN AND CONSERVE ALL FULL/ UNCUOT CARPET TILES THAT ARE IN GOOD CONDITION FREE FROM TEARS AND STAINS FOR RE-INSTALLATION. DISPOSE OF DAMAGED AND/ OR PARTIAL TILES OFF SITE.
  - PREPARE CONCRETE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH: GRIND OFF ALL EXISTING GLUES AND ADHESIVES FOR SMOOTH LEVEL SURFACE. PATCH AND REPAIR CONCRETE AS REQUIRED. REFER TO SPECIFICATIONS.
3. **EXISTING DOORS, DOOR FRAMES AND HARDWARE:**
  - REMOVE AND DISPOSE OF OFF SITE EXISTING DOOR, DOOR FRAME AND HARDWARE.
  - PROTECT ALL OTHER EXISTING DOORS WITHIN SCOPE OF WORK FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
4. **EXISTING METAL WINDOW BLINDS:**
  - REMOVE AND DISPOSE OF OFF SITE EXISTING HORIZONTAL BLINDS.
5. **EXISTING SUSPENDED CEILING SYSTEM:**
  - REMOVE AND DISPOSE OF OFF SITE EXISTING SUSPENDED CEILING SYSTEM, ACOUSTIC TILES, AND ALL ASSOCIATED HANGERS AND ATTACHMENTS.
  - REFER TO MECH./ELEC. DRAWINGS FOR ALL EXISTING MECHANICAL/ ELECTRICAL CEILING MOUNTED FIXTURES.
6. **EXISTING PERIMETER WALL FINISHES:**
  - CUT CLEANLY TO REMOVE AND DISPOSE OF OFF SITE EXISTING DAMAGED GYPSUM BOARD, VINYL FACED GYPSUM BOARD, DRYWALL SCREWS, BATTENS CLIPS, AND P'LAM FINISH AROUND WINDOW SILLS AS INDICATED (PLYWOOD TO FRAMING ARE TO REMAIN).
  - EXISTING METAL FRAMING, INSULATION, VAPOR BARRIER, AND PLYWOOD WINDOW SILL FRAMING TO REMAIN.
7. **EXISTING COLUMN ENCLOSURES:**
  - REMOVE AND DISPOSE OF OFF SITE EXISTING GYPSUM BOARD, EXISTING METAL FRAMING, VINYL FACED GYPSUM BOARD, AND DRYWALL SCREWS, BATTENS & CLIPS, AND WALL BASE.
8. **EXISTING RECESSED FIRE HOSE CABINETS TO REMAIN, PROTECT FOR THE DURATION OF PROJECT.**
9. **CAREFULLY REMOVE AND DISPOSE OF EXISTING PC350 WALL PANELS, BATTENS, BASEBOARDS, AND ALL ASSOCIATED ATTACHMENTS (OUTSIDE) AT ELECTRICAL CLOSET. PC350 WALL PANELS, BATTENS, BASEBOARDS AND ALL ASSOCIATED ATTACHMENTS TO REMAIN ON THE INSIDE OF ELECTRICAL CLOSET. METAL STUDS TO REMAIN.**
10. **EXISTING SINK, CABINET AND WATER FOUNTAIN:**
  - REMOVE SINK AND CABINET, REFER TO MECHANICAL.
  - REMOVE DRINKING FOUNTAIN, REFER TO MECHANICAL.
11. **REMOVE & DISPOSE OF STORED MISCELLANEOUS FURNITURE OFF SITE. REFER TO SPECIFICATION SECTION.**
12. **EXISTING FURNITURE IN THIS ROOM TO BE TEMPORARILY REMOVED AND STORED DURING CONSTRUCTION. TURN OVER TO NRC DEPARTMENTAL REPRESENTATIVE.**
13. **REMOVE AND DISPOSE OF EXISTING WOOD BLOCKING OFF SITE.**

**DEMOLITION GENERAL NOTES**

SHEET A01 ONLY

- A. CONTRACTOR TO PROTECT ALL AREAS OUTSIDE THE CONTRACT AREA FROM DEBRIS AND DUST RESULTING FROM DEMOLITION AND TO KEEP SITE CLEAN AND ORGANIZED THROUGHOUT DEMOLITION.
- B. DO NOT ALTER STRUCTURAL BUILDING ELEMENTS IN ANY WAY. ALL FINISH WORK TO BE PERFORMED AROUND EXISTING STRUCTURE.
- C. CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD ALL EXISTING GYPSUM BOARD WALLS OR OTHER SURFACES REQUIRING FINISHING, READY FOR PAINT OR OTHER FINISHES REQUIRED. PAINT EXISTING DAMAGED WALLS AFFECTED BY WORK UNDER THIS CONTRACT TO MATCH EXISTING ON ADJACENT WALL SURFACES.
- D. ALL EXISTING CEILINGS IN ALL AREAS COVERED IN THIS CONTRACT SHALL BE COMPLETELY REMOVED, INCLUDING PLASTER, SUSPENDED CEILING SYSTEMS, BULKHEADS AND CEILING FRAMING MEMBERS, UNLESS NOTED OTHERWISE ON THIS DRAWING.
- E. REMOVE ALL EXISTING BASEBOARDS WITHIN SCOPE OF WORK AND DISPOSE OF OFF SITE.
- F. ALL REMOVED EXISTING MATERIALS ARE TO BE DISPOSED OF OFF SITE AS PER RESPECTIVE SPECIFICATION SECTION.

**DEMOLITION FURNITURE LEGEND**

SHEET A01 ONLY

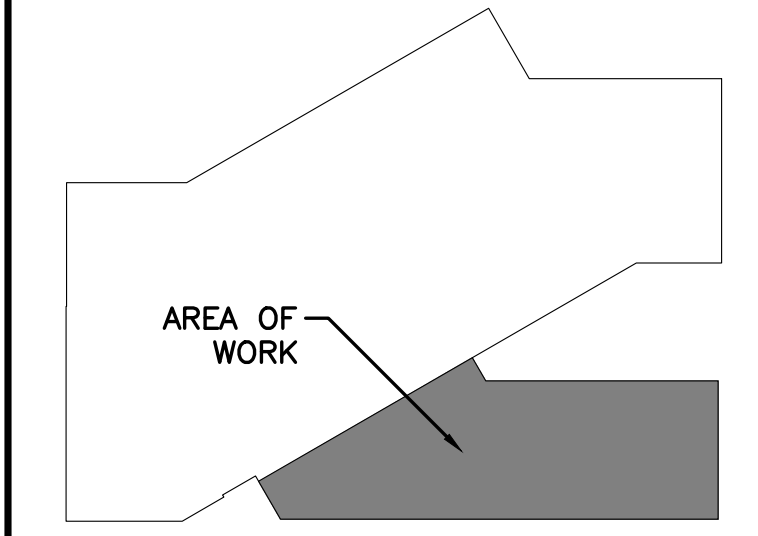
- TYPICAL: DIVERSION OF MISCELLANEOUS OFFICE FURNITURE FROM LANDFILL THROUGH RE-USE/DONATION OR RECYCLING FACILITIES (IE. METAL FILING CABINETS AND SHELVING, OFFICE DESKS AND CHAIRS, DEMOUNTABLE PANEL PARTITION SYSTEMS, WINDOW BLINDS, WOOD CABINETS, MISC WOODEN AND METAL COAT RACKS AND MISC CHAIRS ETC.)
- MULTIPLE DESK TYPE CONFIGURATIONS
  - FILE CABINET
  - BOOKSHELF
  - MULTIPLE DEMOUNTABLE PANEL PARTITION SYSTEMS
  - UNSERVICEABLE PLOTTER



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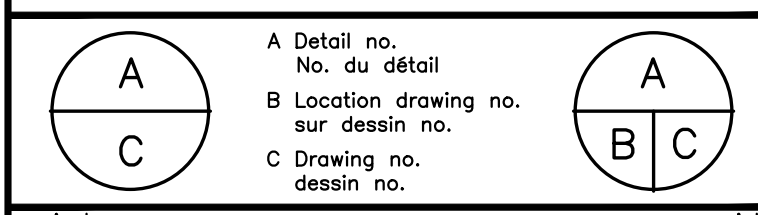
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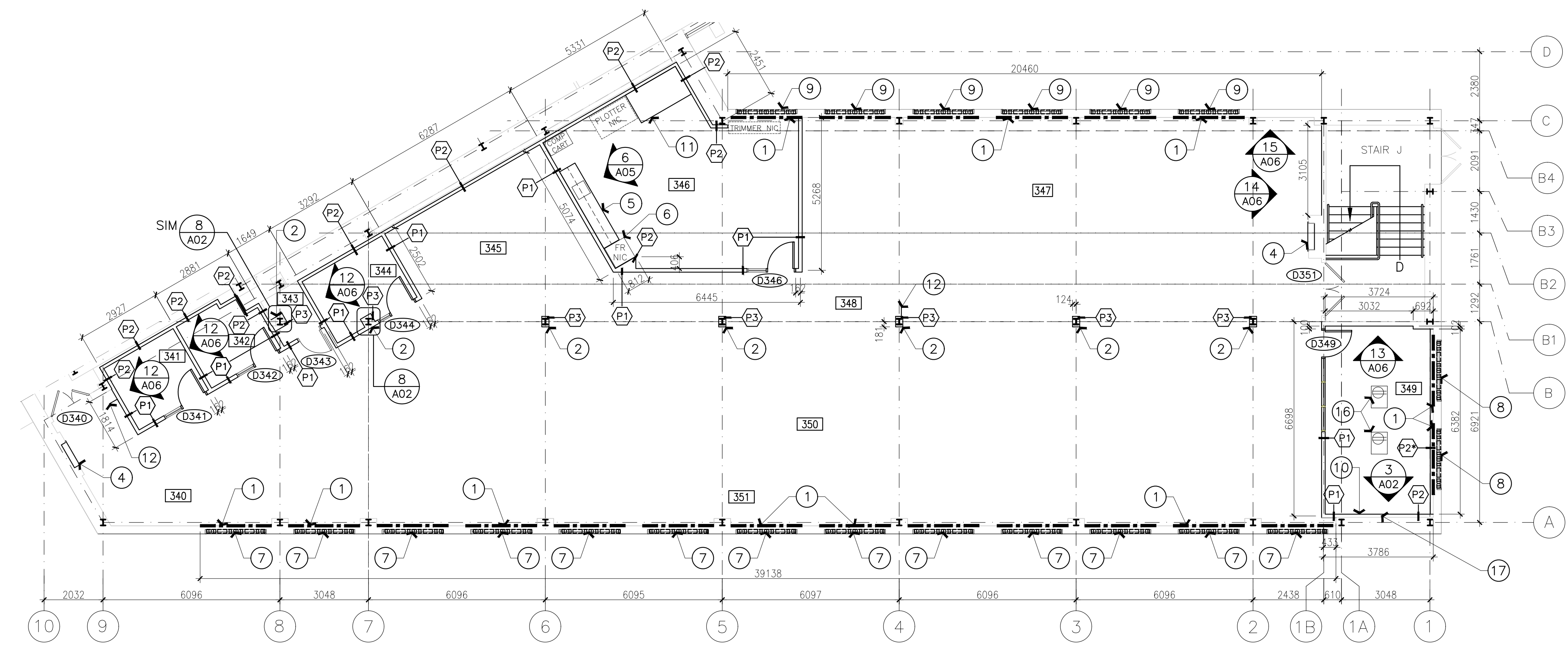
project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT  
MONTREAL ROAD CAMPUS

drawing: DEMOLITION PLAN, DEMOLITION REFLECTED CEILING PLAN, AND DEMOLITION FURNITURE PLAN

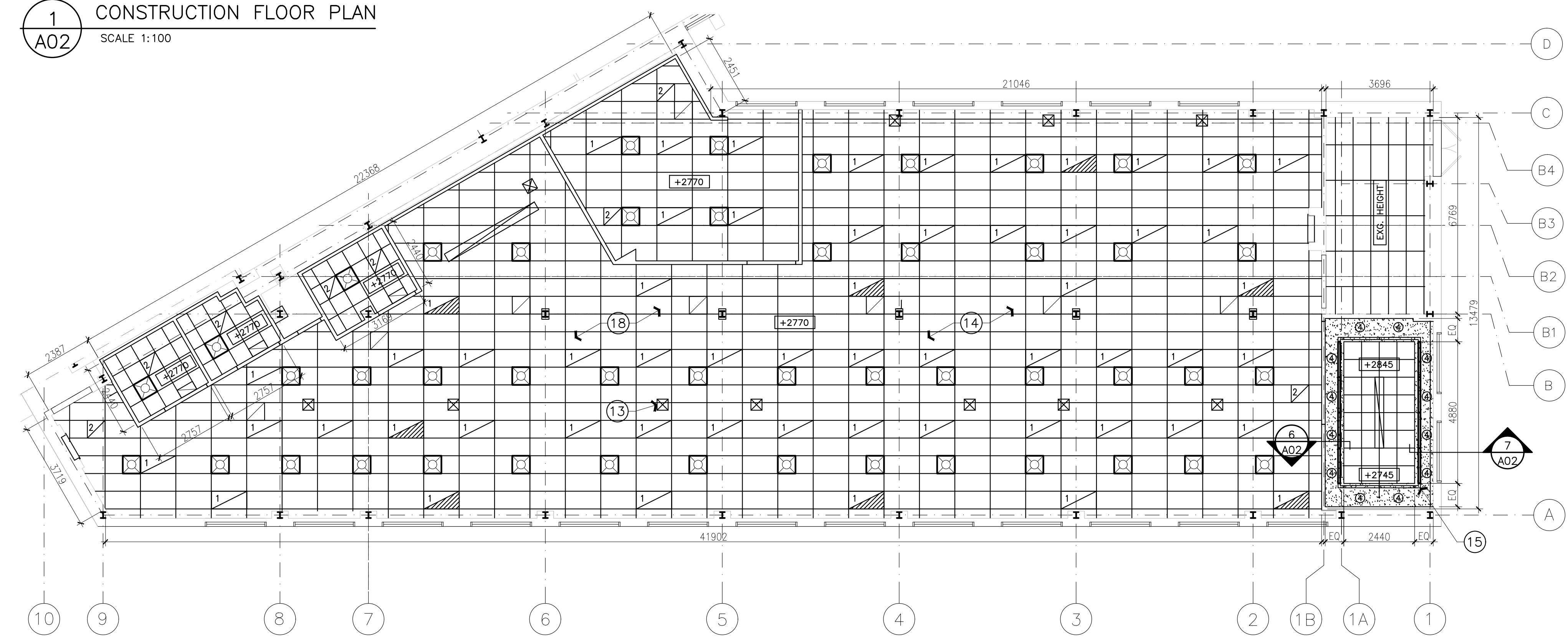
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**GENERAL NOTES**

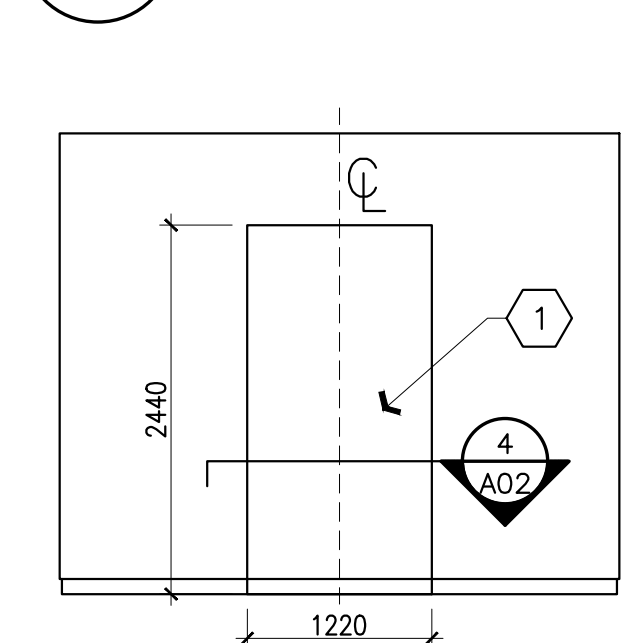
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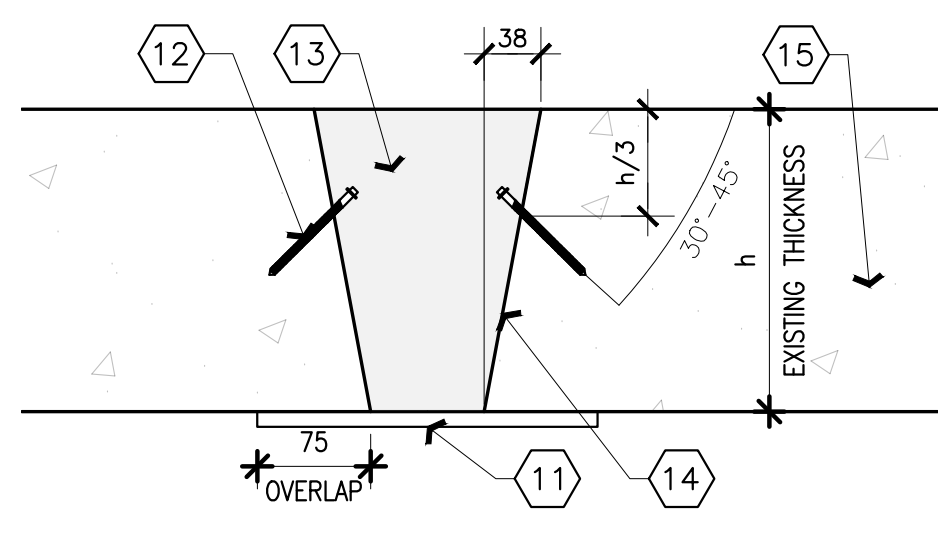
**1 CONSTRUCTION FLOOR PLAN**  
 A02 SCALE 1:100



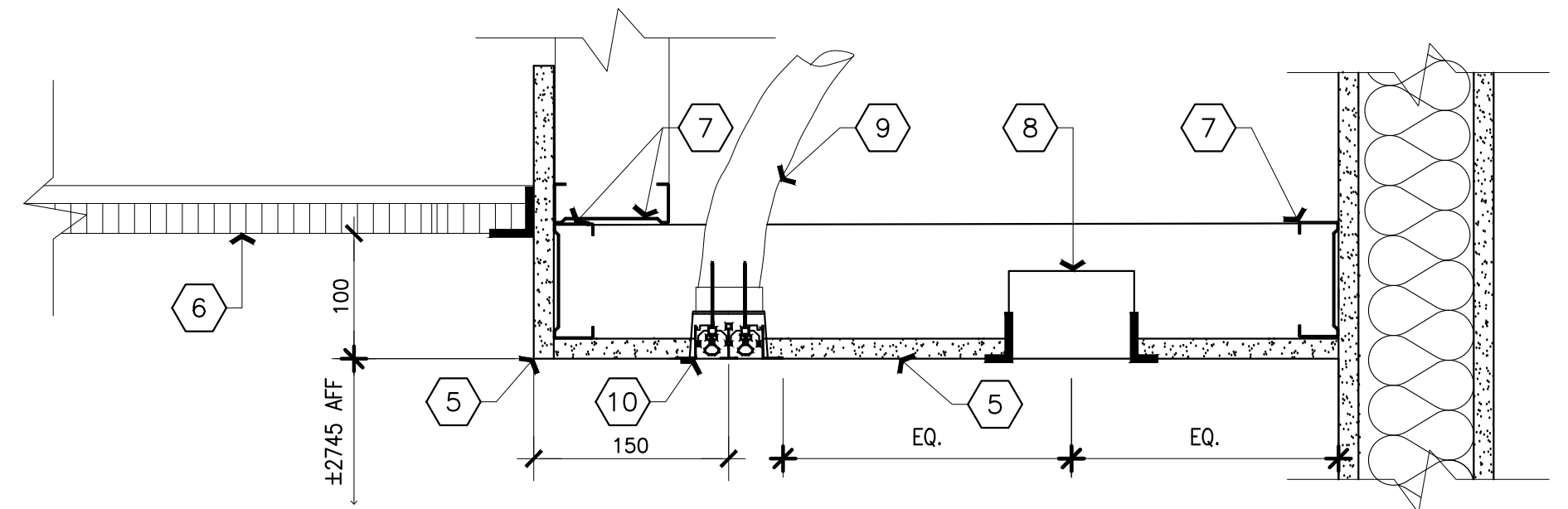
**2 CONSTRUCTION REFLECTED CEILING PLAN**  
 A02 SCALE 1:100



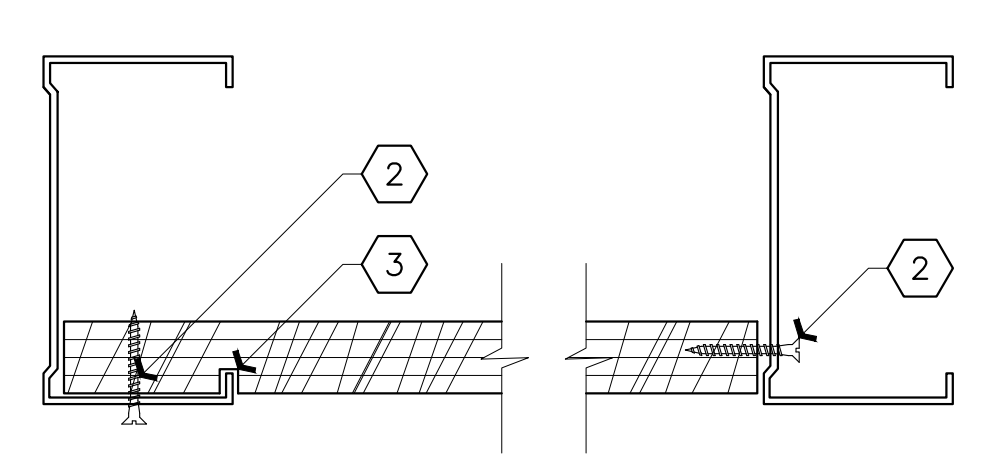
**3 TV BACKING ELEVATION**  
 A02 SCALE 1:50



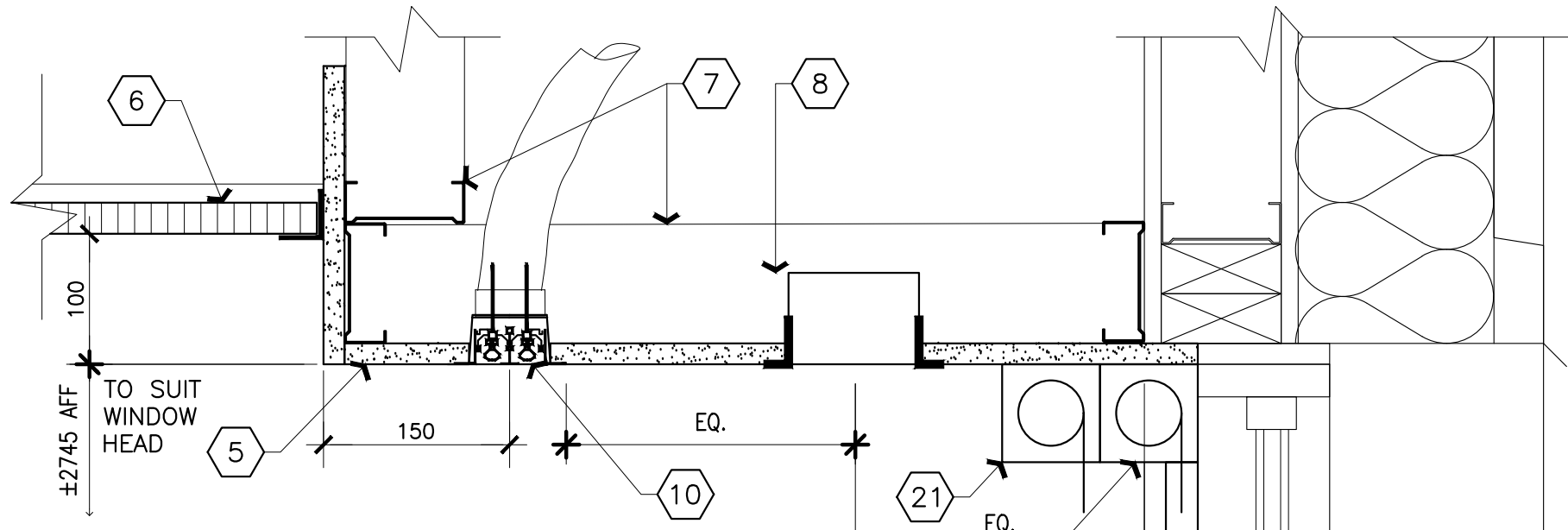
**5 TYPICAL DETAIL - INFILL EXISTING SLEEVES**  
 A02 SCALE 1:5



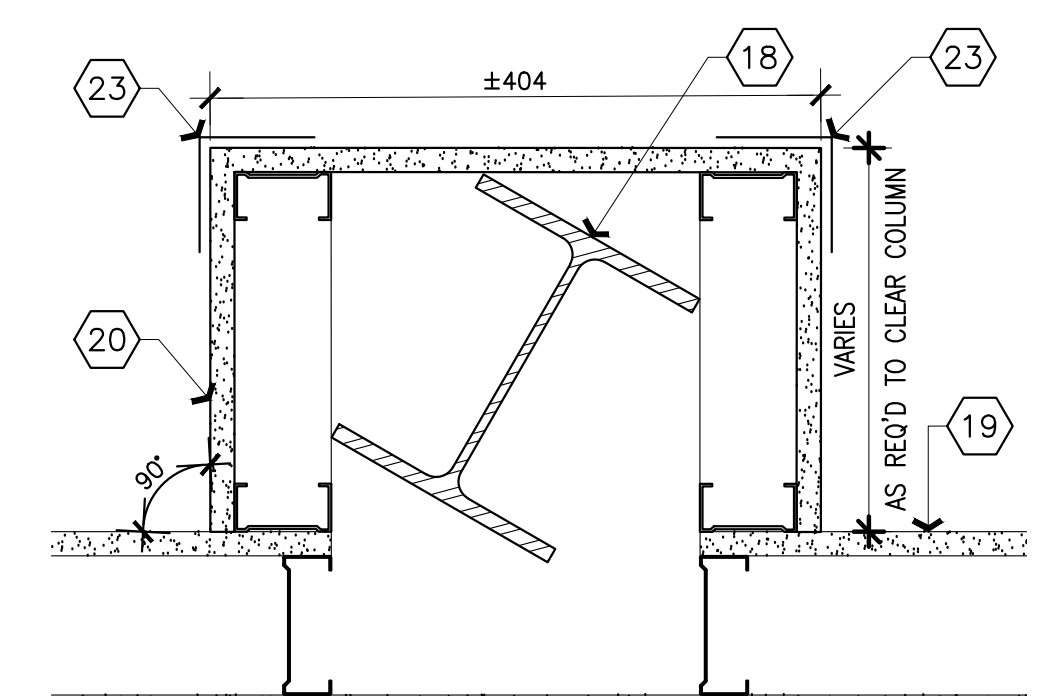
**6 MEETING ROOM BULKHEAD DETAIL (TYPICAL)**  
 A02 SCALE 1:5



**4 STUD/ PLYWOOD PLAN DETAIL**  
 A02 SCALE 1:2



**7 MEETING ROOM BULKHEAD DETAIL @ EXT. WINDOW**  
 A02 SCALE 1:5



**8 COLUMN SURROUND DETAIL**  
 A02 SCALE 1:5

**CONSTRUCTION PLAN & RCP NOTES**  
 SHEET A02 ONLY

- TYPICAL: EXISTING PERIMETER WALLS, INSTALL NEW 13mm GYPSUM BOARD AS REQUIRED TO PATCH GYPSUM BOARD REMOVALS & ELECTRICAL OUTLET REMOVALS. COORDINATE W/ ELECTRICAL. PREPARE SURFACE FOR ONE COAT OF PRIMER AND TWO COATS OF PAINT FINISH.
- TYPICAL: NEW COLUMN ENCLOSURES, ALL EXISTING COLUMNS ARE W8X24. REFER TO WALL TYPE SCHEDULE. PREP SURFACE FOR 1 COAT OF PRIMER AND TWO COATS OF PAINT FINISH.
- TYPICAL: ALL EXISTING CONVECTOR HOUSING, GRILLES AND COVERS TO BE REFINISHED. REMOVE COVERS, CLEAN, DEGREASE, SAND SMOOTH, AND PREPARE TO RECEIVE 2 COATS OF HEAT RESISTANT PAINT TO MATCH NEW WALL. ENSURE NEW PAINT DOES NOT LOCK ANY REMOVABLE PIECES IN PLACE. PROVIDE NEW STAINLESS STEEL MOUNTING HARDWARE, DO NOT PAINT OVER EXPOSED HARDWARE.
- EXISTING FIRE HOSE CABINET TO REMAIN. PROTECT FOR THE DURATION OF PROJECT.
- NEW UPpers & LAMINATE COUNTERTOP ON BASE CABINETS C/W TOP MOUNTED SINK (REFER TO A05). COORDINATE WITH MECHANICAL.
- FRIDGE NOT IN CONTRACT - FOR REFERENCE ONLY.
- INSTALL NEW HORIZONTAL SOLAR ROLLER BLINDS, TYPE 'A', REFER TO DETAIL 9/A06.
- INSTALL NEW HORIZONTAL SOLAR ROLLER BLINDS, TYPE 'B', REFER TO DETAIL 10/A06.
- INSTALL NEW HORIZONTAL SOLAR ROLLER BLINDS, TYPE 'C', REFER TO DETAIL 11/A06.
- PROVIDE 19mm PLYWOOD BACKING (2440mm TALL x 1220mm WIDE) BETWEEN STUDS FOR FUTURE WALL MOUNTED TELEVISION. REFER TO ELEVATION 3/A02 AND DETAIL 4/A02. TELEVISION NOT IN CONTRACT.
- MILLWORK CABINET. REFER TO A05 FOR ELEVATIONS AND DETAILS.
- WALL MOUNTED SIGNAGE W/ PHOSPHORUS FINISH FOR EMERGENCY PHONE. REFER TO ELECTRICAL FOR PHONE LINE SERVICES.
- MODIFY NEW CEILING TO ACCOMMODATE ELECTRICAL JIFFY POLES (TYPICAL). COORDINATE WITH ELECTRICAL AND FURNITURE INSTALLERS.
- REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED FIXTURES.
- CONTINUOUS LINEAR RETURN AIR/ SUPPLY GRILLE AROUND CORNERS OF BULKHEAD (TYPICAL).
- NEW FLOOR MONUMENT WITH PHONE JACK. COORDINATE BETWEEN ELECTRICAL AND FURNITURE MANUFACTURER C/W SLAB CORING.
- CORE SLAB TO ACCOMMODATE CONDUIT FOR WALL MOUNTED TV. COORDINATE W/ ELECTRICAL.
- NEW L.I.T. CEILING C/W GRID AND SUSPENSIONS SYSTEM.

**FLOOR PLAN & REFLECTED CEILING LEGEND**  
 SHEET A02 ONLY

**ARCHITECTURAL LEGEND:**

- NEW INTERIOR PARTITIONS. REFER TO CONSTRUCTION PLAN
- A. NEW ACOUSTIC CEILING PANEL, 610mm x 1220mm x 19mm, AND 610mm X 610mm X 19mm, COLOR WHITE. REFER TO SPECIFICATION.
- B. NEW SUSPENSION CEILING SYSTEMS REFER TO SPECIFICATION, WHITE. CEILING HEIGHT: 2770mm AFF (TYPICAL)
- NOTE: INCLUDE ALL TEES, TRIM, TILES AND HANGARS FOR A COMPLETE INSTALLATION.
- NEW GYPSUM BOARD BULKHEAD (16mm TYPE 'X') CEILING HEIGHT: 2770mm
- DENOTES EXTENT FOR PATCH WORK OF NEW 13mm GYPSUM BOARD. REFER TO CONSTRUCTION NOTE #1.

**ELECTRICAL LEGEND:**

- NEW 610X1220 LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW 610X610 LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW 150mm DIA. POT LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW SUSPENDED LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW CUBICLE COMMUNICATIONS AND POWER UTILITY POLE, REFER TO ELECTRICAL.
- NEW FLOOR MONUMENT WITH PHONE JACK; LOCATION TO BE COORDINATED WITH TABLE LEGS. REFER TO ELECTRICAL.

**MECHANICAL LEGEND:**

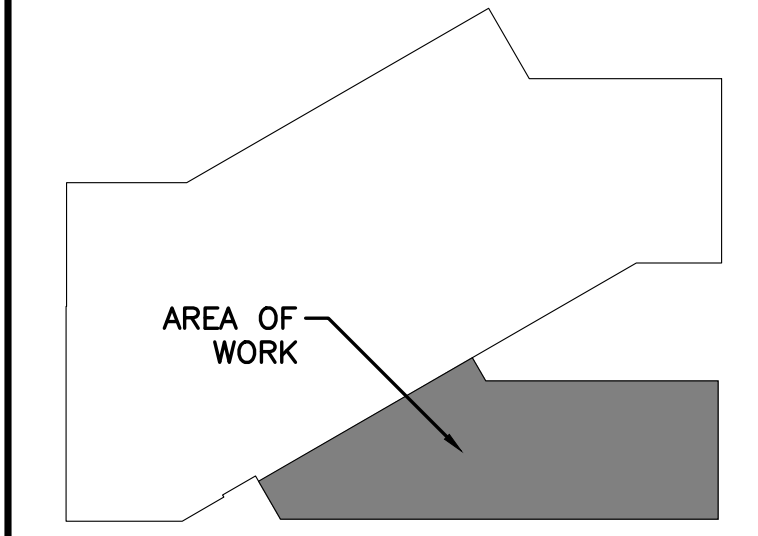
- NEW 610' x 610' SUPPLY AIR DIFFUSER, REFER TO MECHANICAL.
- NEW 610' x 610' RETURN AIR GRILLE, REFER TO MECHANICAL.
- LINEAR SUPPLY AIR/ RETURN AIR GRILLE, REFER TO MECHANICAL. USE CONCEALED FASTENERS ONLY.

WALL TYPE	ENLARGED GRAPHIC REPRESENTATION	DESCRIPTION	FIRE RATING ULC RATING SOUND RATING
P1		16mm TYPE 'X' GB 92mm STEEL STUDS 89mm ACOUSTICAL BATT INSULATION 16mm TYPE 'X' GB NOTE: FASTEN BATTERS VERTICALLY USING 25mm SCREWS SPACED 200mm O.C. ALONG EDGE JOINTS, FLOOR AND CEILING TRACKS, AND 300mm O.C. IN THE FIELD. JOINTS MUST BE OFFSET.	FIRE: 1 HOUR ULC 415/ cUL U465, UL U465  SOUND: NRC TL-93-324
P2		16mm TYPE 'X' GB 92mm STEEL STUDS	
P2*		ROOM 349; DETAIL 5/A06 FOR FURRED OUT PARTITION.	
P3		W8x24 COLUMN ENCLOSURE: 16mm TYPE 'X' GB 64mm STEEL STUDS  INSTALL 90 deg. - 18ga TYPE #304 (SATIN BRUSHED FINISH) STAINLESS STEEL CORNER GUARDS WITH BEVELED EDGES. 915mm x 76mm x 76mm. INSTALL ONLY ON CORRIDOR SIDE OF COLUMN. (COORDINATE WITH FURNITURE PLAN 2/A03)	

**CONSTRUCTION DETAIL NOTES**  
 SHEET A02 ONLY

- PROVIDE 19mm PLYWOOD BACKING (2440mm AFF x 1220mm WIDE) BETWEEN STUDS FOR FUTURE WALL MOUNTED TELEVISION. REFER TO ELEVATION 3/A02 AND DETAIL 4/A02. TELEVISION NOT IN CONTRACT.
- SECURE PLYWOOD TO STUDS.
- CUT RABBIT IN PLYWOOD TO RECEIVE FLANGE OF METAL STUD.
- NOTE NOT USED.
- NEW 16mm GYPSUM BULKHEAD. PREPARE SURFACE FOR ONE COAT PRIMER AND TWO COATS OF PAINT FINISH.
- NEW SUSPENDED CEILING SYSTEM.
- STEEL STUDS TO SUIT.
- POT LIGHT FIXTURE, REFER TO ELECTRICAL.
- FLEX DUCT, REFER TO MECHANICAL.
- LINEAR SUPPLY DIFFUSER OR RETURN GRILLE, REFER TO MECHANICAL.
- PROVIDE 8mm THICK METAL PLATE. SIZE TO SUIT EXISTING PENETRATIONS DIMENSIONS. PROVIDE 4 CONCRETE FASTENERS.
- PROVIDE 4.8mm DIAMETER x 76mm LONG TAPCON SCREWS, EQUALLY SPACED, WITH AN EMBEDMENT OF 44mm. CONTRACTOR TO ENSURE THE EXISTING CONCRETE IS SURFACE SATURATED DRY. REFER TO GENERAL NOTES.
- NON-SHRINK HIGH STRENGTH GROUT.
- APPLY BONDING AGENT (SIKA TOP ARMADEC-110 EPOCERM).
- EXISTING CONCRETE SLAB.
- IN-FILL EXISTING HOLES IN CONCRETE SLAB: CARRY COST FOR 25 X 50mm DIA, NON-SHRINK GROUT, REFER TO DETAIL 5/A02
- FIRESTOPPING EXISTING HOLES IN PARTITIONS CARRY COSTS FOR:  
 25 X 50mm DIA HOLES,  
 25 X 50mm DIA CONDUITS.
- TYPICAL EXISTING STEEL COLUMN TO REMAIN. PROTECT DURING WORK.
- REFER TO FLOOR PLAN FOR PARTITION TYPE.
- NEW COLUMN SURROUND AS PER PARTITION TYPE 3. INSTALL SURROUND FRAMING TO CREATE SQUARE CORNERS WITH THE NEAREST PARTITION.
- NEW SHADE #1 26 SHEERWEAVE (PHIFER) 3%.
- NEW SHADE #2 OPAQUE FABRIC BLINDS WITH SIDE CHANNELS. INSIDE BLACK, OUTSIDE WHITE. CHAIN OPERATED, INSIDE FRAME MOUNT.
- INSTALL 90 DEG. - 18GA TYPE #304 (SATIN BRUSHED FINISH) STAINLESS STEEL CORNER GUARDS WITH BEVELED EDGES. 915mm X 76mm X 76mm. INSTALL ONLY ON CORRIDOR SIDE OF COLUMN. (COORDINATE WITH FURNITURE PLAN 2/A03).

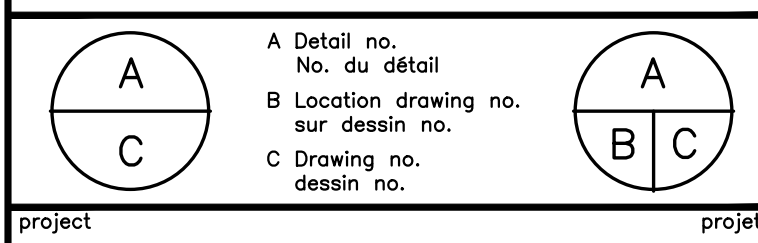
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Date Printed: 4/03/2022 Date imprimée: 4/03/2022

Verify all dimensions and site conditions and be responsible for same.  
 Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT  
 projet: MONTREAL ROAD CAMPUS

drawing: CONSTRUCTION PLAN AND REFLECTED CEILING PLAN

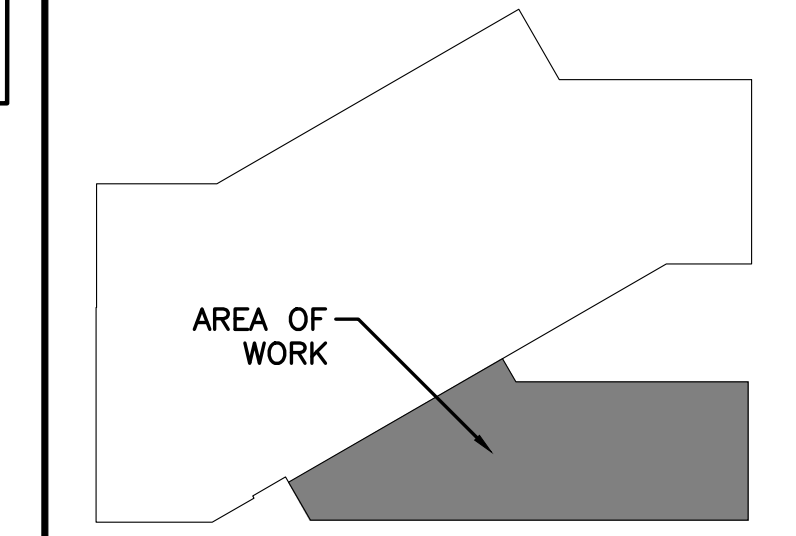
designed	conçu	date	MAY 2022	date
SWH				
drawn	dessiné	scale	AS NOTED	échelle
JDG/MD				
checked	vérifié	sheet	3 of 4	feuille
JDG			7	
approved	approuvé	W.O.no.		D.T.no.
JD				
dwg.no.				dessin no.

# NRC - CNRC

## GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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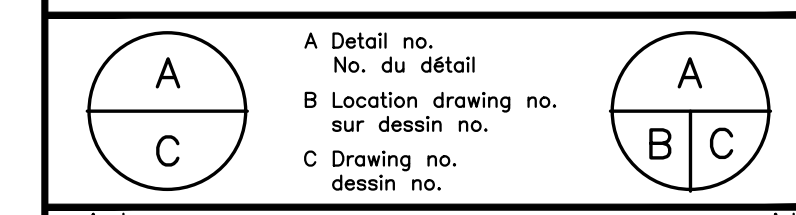
## KEY PLAN PLAN CLÉ



7			
6			
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4			
3			
2	30/05/2022	ISSUED FOR TENDER	SWH
1	4/03/2022	ISSUED FOR 66% REVIEW	JDG
No.	Date	Revision	Rev. par.

Date Printed 4/03/2022 Date imprimée

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project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT project

MONTREAL ROAD CAMPUS

drawing: FINISHES FLOOR PLAN AND FURNITURE FLOOR PLAN dessin

designed	SWH	conçu	date	MAY 2022	date
drawn	JDG/MD	dessiné	scale	AS NOTED	échelle
checked	JDG	vérifié	sheet	4 of/de 7	feuille
approved	JL	approuvé	W.O.no.		D.T.no.
dwg.no.		dessin no.			

6009 - A03

## FURNITURE NOTES

- MEETING CHAIR/ TOUCHDOWN STATION TASK CHAIR: REFER TO DRAWING A04 AND SPECIFICATION DIVISION 12
- GUEST CHAIR: REFER TO DRAWING A04 AND SPECIFICATION DIVISION 12.
- ERGO TASK CHAIR: REFER TO DRAWING A04 AND SPECIFICATION DIVISION 12.
- MOBILE LOUNGER CHAIR: REFER TO DRAWING A04 AND SPECIFICATION DIVISION 12
- HIGH COLLABORATION CHAIR: SUPPLIED BY NRC, INSTALLED BY CONTRACTORS
- STACKING KITCHENETTE CHAIR: SUPPLIED BY NRC, INSTALLED BY CONTRACTORS
- (T1) SIT TABLE: SIZES VARY REFER TO DRAWING A04 AND SPECIFICATION SECTION DIVISION 12.
- (T2) MEETING TABLE: 3050mmX1220mm REFER TO DRAWING A04, AND SPECIFICATION SECTION DIVISION 12.
- (T3) OPEN COLLABORATION TABLE: REFER TO DRAWING A04, AND SPECIFICATION SECTION DIVISION 12.
- COMPUTER CART: REFER TO DRAWING A04, AND SPECIFICATION SECTION DIVISION 12.

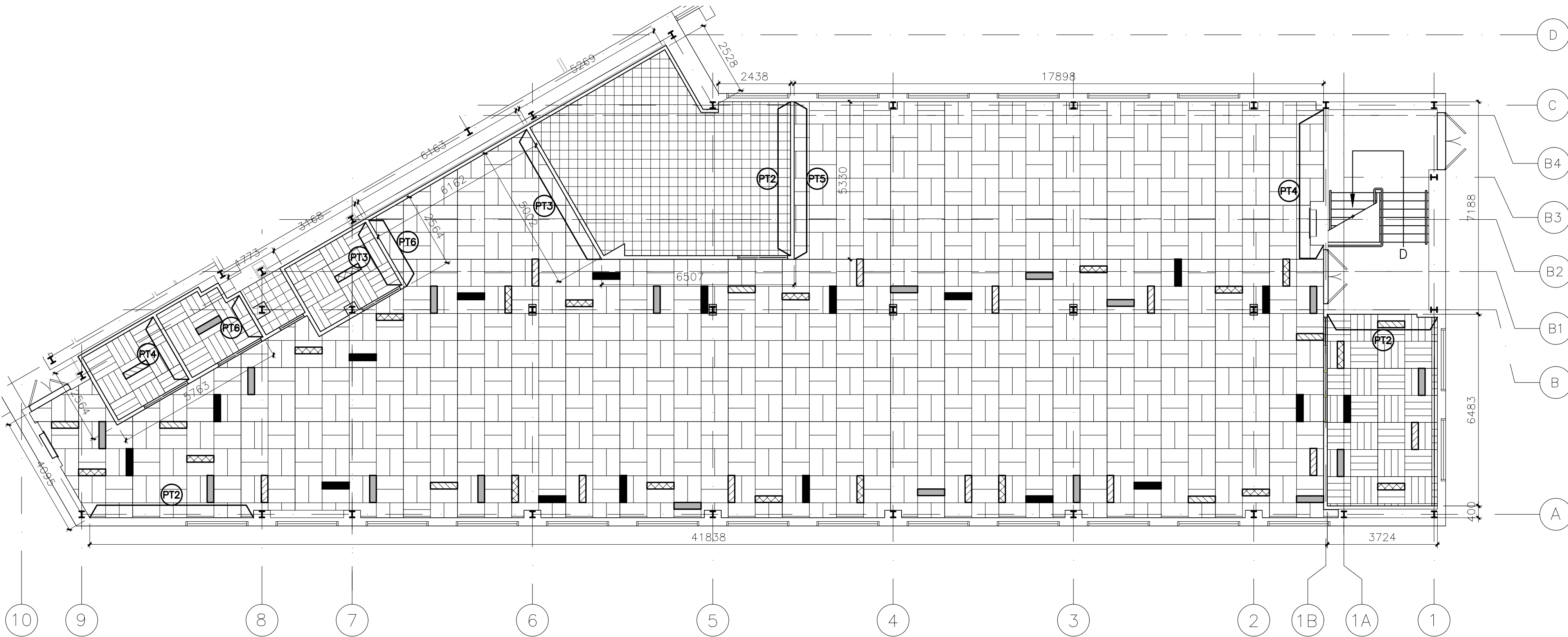
## WORKSTATION NOTES

- TYPICAL WORKSTATION: REFER TO DRAWINGS A04 AND SPECIFICATION DIVISION 12.
- TYPICAL 610mm WORKSTATION: REFER TO DRAWINGS A04 AND SPECIFICATION DIVISION 12.
- TYPICAL WORKSTATION W/ OVERHEAD SHELF: REFER TO DRAWINGS A04 AND SPECIFICATION DIVISION 12.
- TYPICAL MANAGER'S CUBICLE, SUPERVISOR'S CUBICLE: REFER TO DRAWINGS A04 AND SPECIFICATION DIVISION 12.
- TOUCHDOWN STATION: REFER TO DRAWINGS A04 AND SPECIFICATION DIVISION 12.

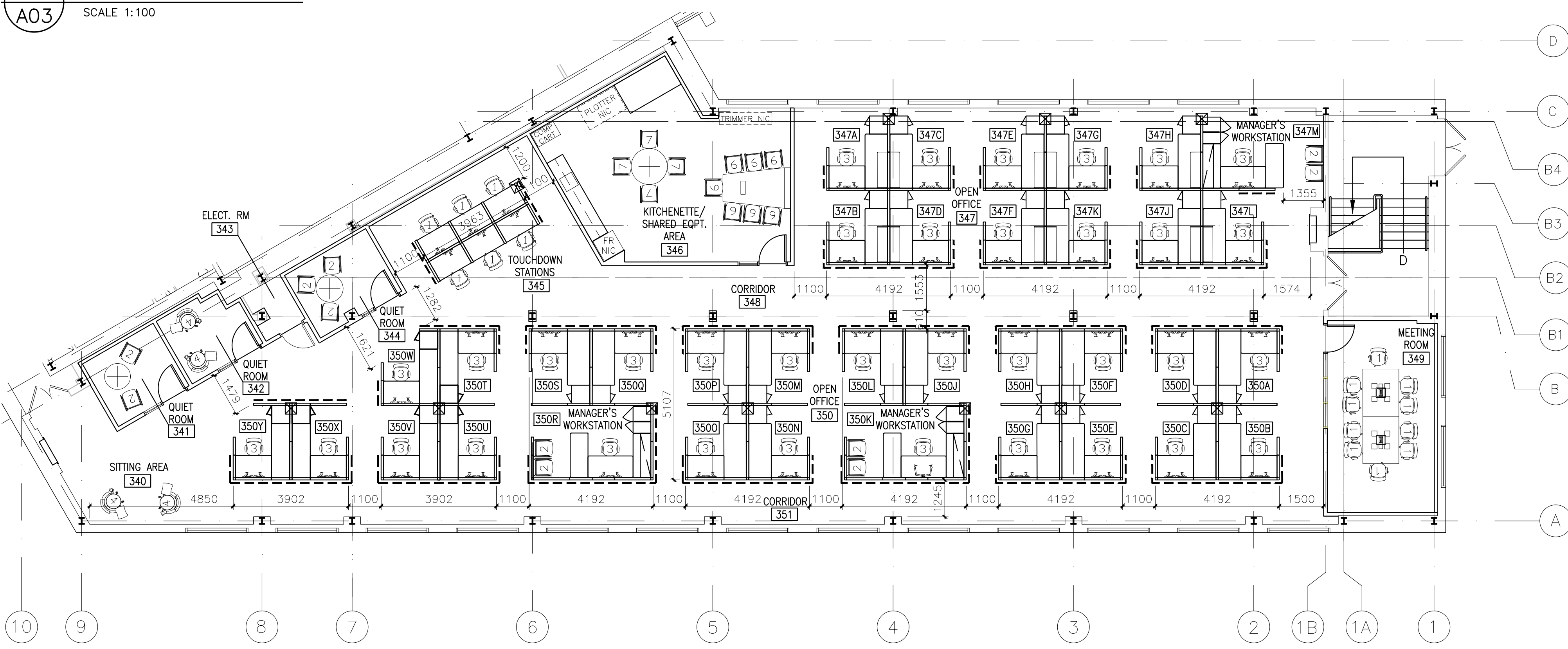
## FINISHES LEGEND

- PAINTED STEEL PANEL TILE (REFER TO SPECIFICATIONS)
- FLOOR FINISH:
  - CARPET TILE:
    - MAIN COLOUR, OPEN AREA: (EXISTING CARPET TILES TO BE REINSTATED.) IGNITE TILE, COLOUR: OXIDIZE 48531, SIZE 457mm x 915mm AS MANUFACTURED BY SHAW CONTRACT GROUP.
    - MAIN COLOUR, CLOSED ROOMS: (NEW CARPET TILES TO BE REINSTATED.) JOURNEY, COLOUR: WEATHERED 49535, 229mm x 915mm AS MANUFACTURED BY SHAW CONTRACT GROUP.
    - SUB-FLOOR TREATMENT, REFER TO SECTION 096813 - CARPET TILE
    - ACCENT COLOURS, SIZE 230mm x 915mm: COLOUR FORM, AS MANUFACTURED BY SHAW CONTRACT GROUP.
      - CPT-1 GLOWING 81211 (YELLOW)
      - CPT-2 PUZZLE 81991 (PURPLE)
      - CPT-3 HYPER GREEN 81326 (GREEN)
      - CPT-4 HYPER BLUE 81436 (BLUE)
  - NOTE: ALL RETAINED AND CONSERVED CARPET TILES TO BE REINSTATED. PROVIDE NEW TILES AS REQUIRED.
  - RESILIENT TILE FLOORING:
    - REFER TO SPECIFICATIONS EXCELON AS MANUFACTURED BY ARMSTRONG COLOUR: STERLING 71 51904 / Z1904, C/W TRANSITION STRIP.
    - INSTALL ACCENT CARPET TILES AS SHOWN ON 1/A03. INSTALLER TO ENSURE TRANSITION LINE BETWEEN CARPET TILE/ VCT AND REINSTATED CARPET TILE IS ALIGNED WITH THRESHOLD OF DOOR IN CLOSED POSITION.
- WALL BASE:
  - RWB 150mm RESILIENT WALL BASE: REFER TO SPECIFICATIONS
  - .1 SIMILAR TO JOHNSONITE, TRADITIONAL WALL BASE.
  - .1 COLOUR: 48 GREY.
- PAINT: REFER TO SPECIFICATIONS.
  - 1. ALL WALLS TO BE PAINTED PT1 UNLESS OTHERWISE NOTED.
  - 2. ALL GYPSUM BOARD CEILINGS / BULKHEADS TO BE PAINTED CEILING WHITE. REFER TO SPECIFICATIONS
  - 3. PAINT COLOURS:
 

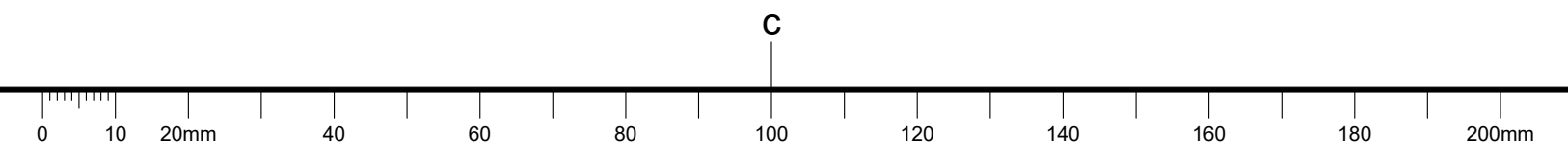
PT1	SHERWIN WILLIAMS	ELDER WHITE	SW 7014
PT2	SHERWIN WILLIAMS	GAUNTLET GREY	SW 7019
PT3	SHERWIN WILLIAMS	DYNAMIC BLUE	SW 6958
PT4	SHERWIN WILLIAMS	OVERT GREEN	SW 6718
PT5	SHERWIN WILLIAMS	BEE	SW 6683
PT6	SHERWIN WILLIAMS	VERVE VIOLET	SW 6975



1 FINISHES FLOOR PLAN  
 SCALE 1:100



2 FURNITURE FLOOR PLAN  
 SCALE 1:100

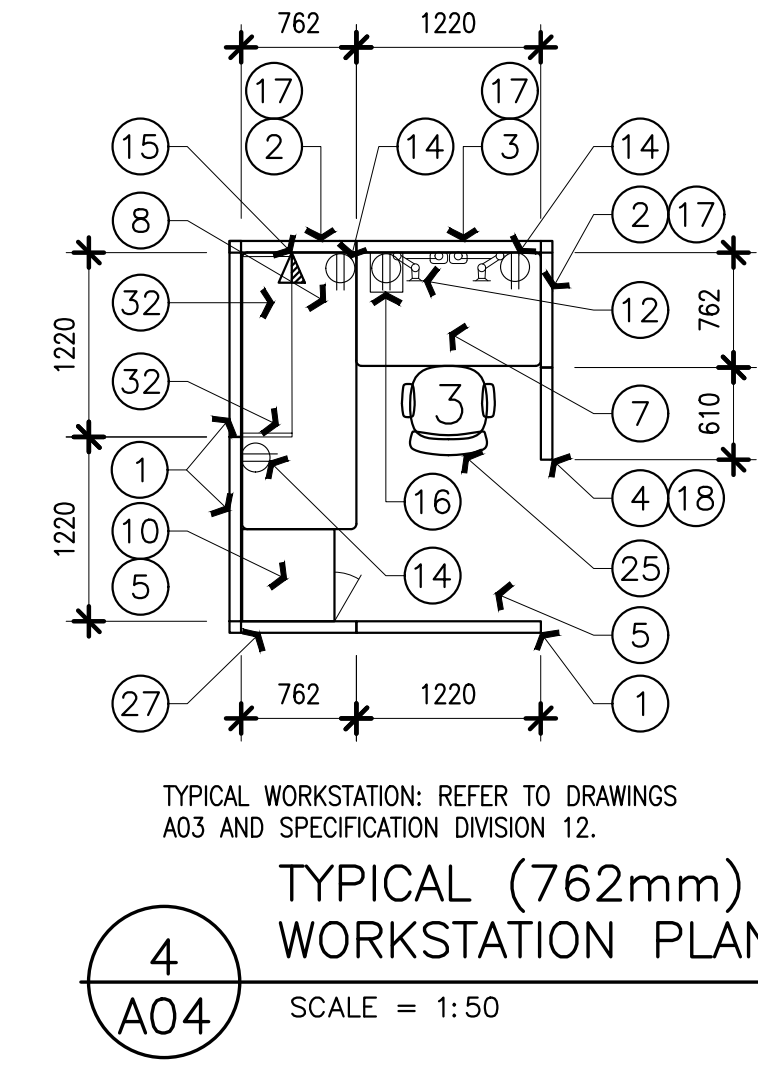


**GENERAL NOTES**

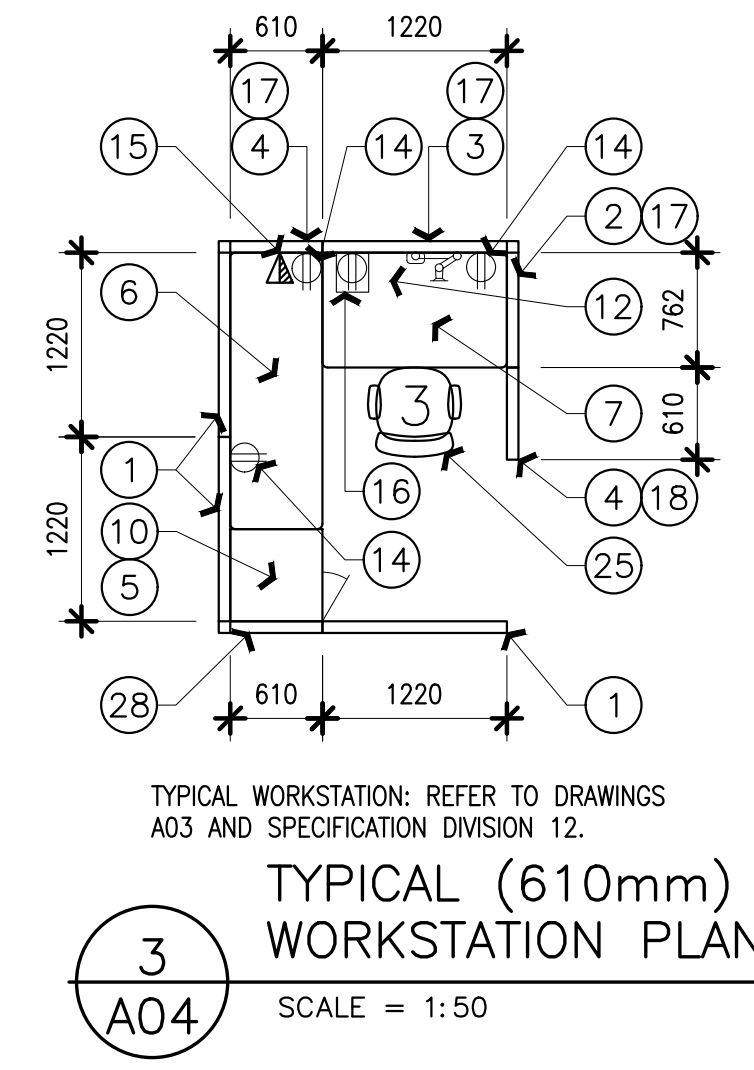
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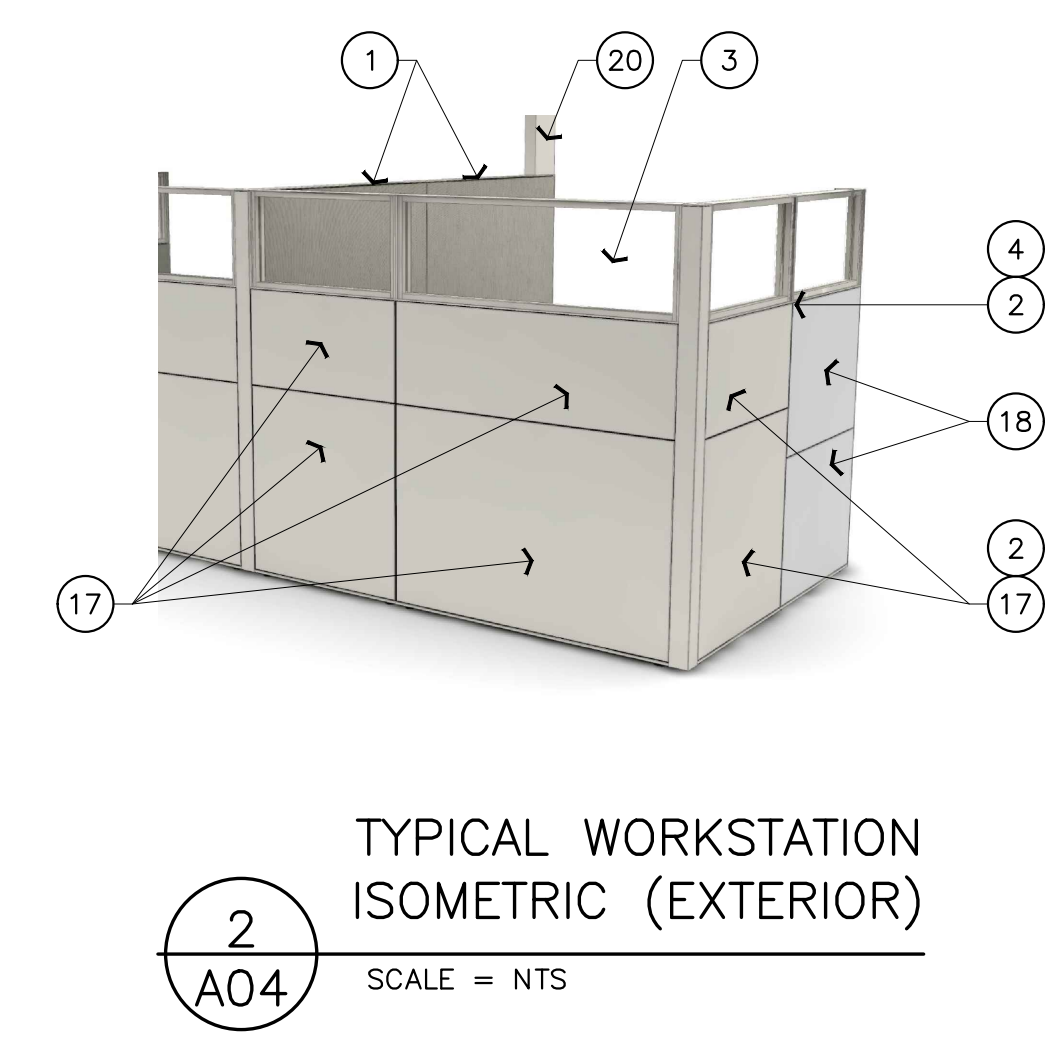
**5**  
A04 **COMPUTER CART**  
SCALE = NTS



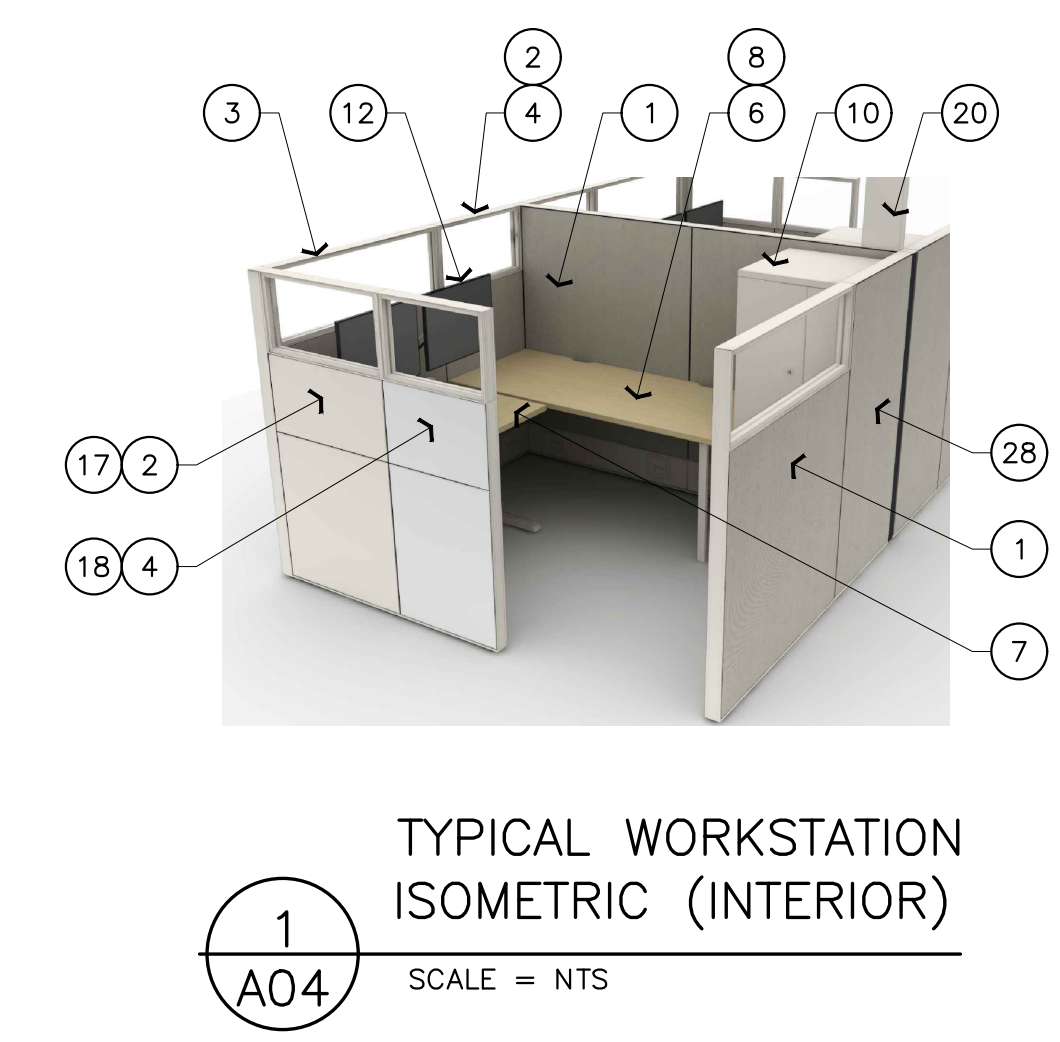
**4**  
A04 **TYPICAL (762mm) WORKSTATION PLAN**  
SCALE = 1:50



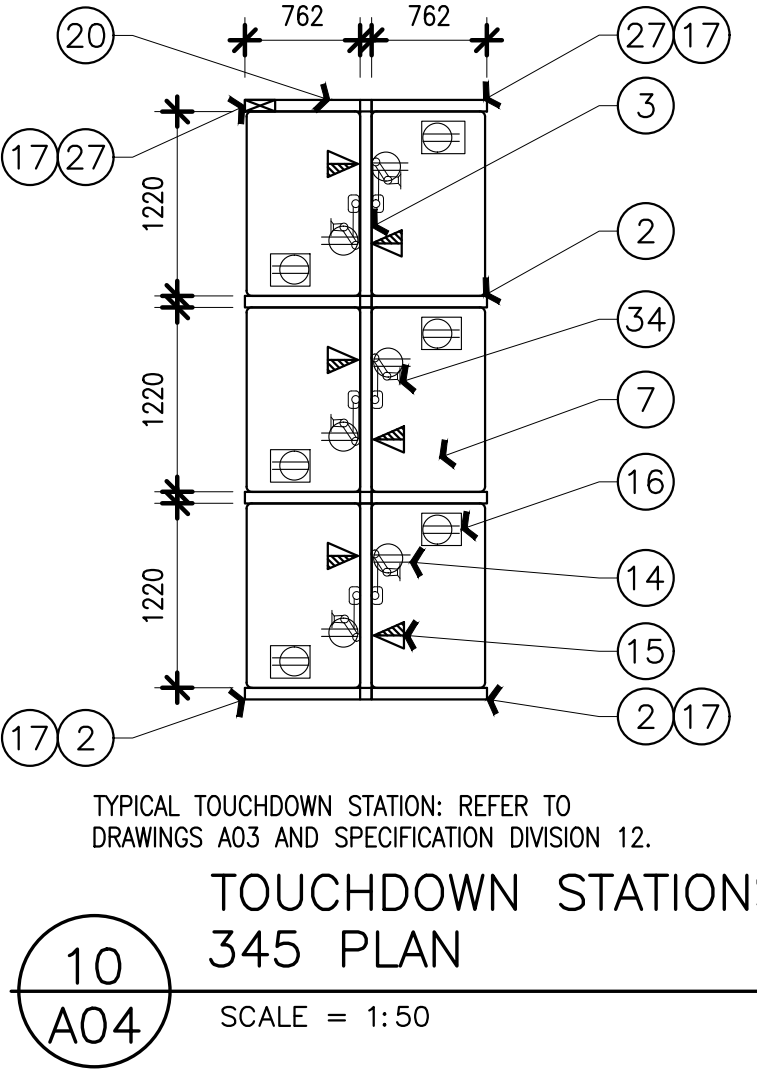
**3**  
A04 **TYPICAL (610mm) WORKSTATION PLAN**  
SCALE = 1:50



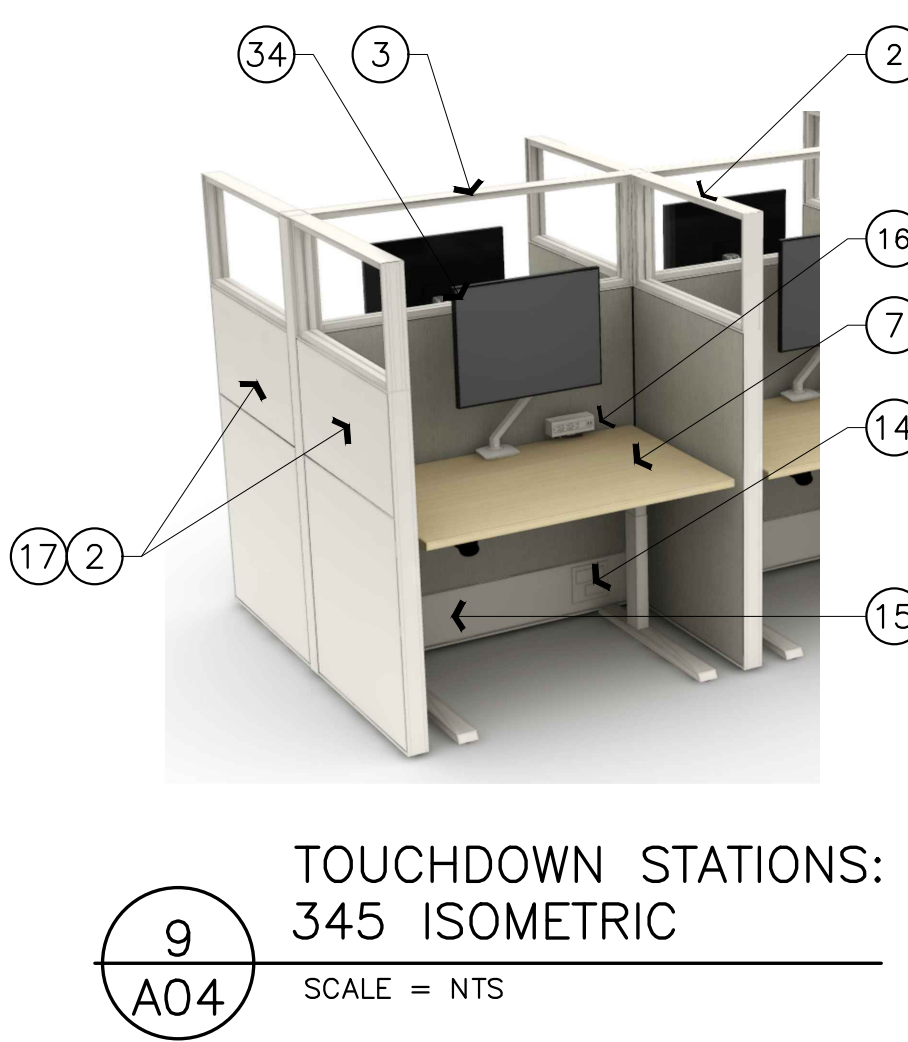
**2**  
A04 **TYPICAL WORKSTATION ISOMETRIC (EXTERIOR)**  
SCALE = NTS



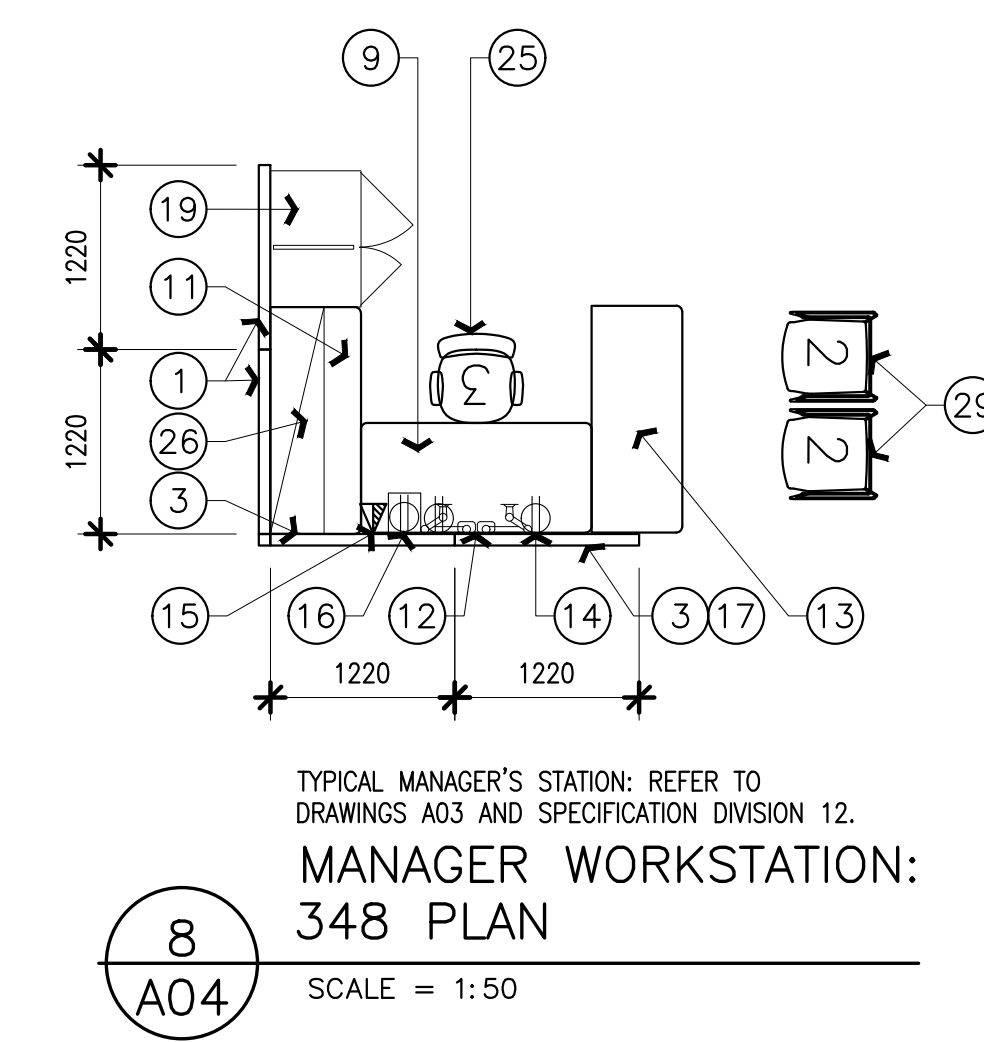
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A04 **TYPICAL WORKSTATION ISOMETRIC (INTERIOR)**  
SCALE = NTS



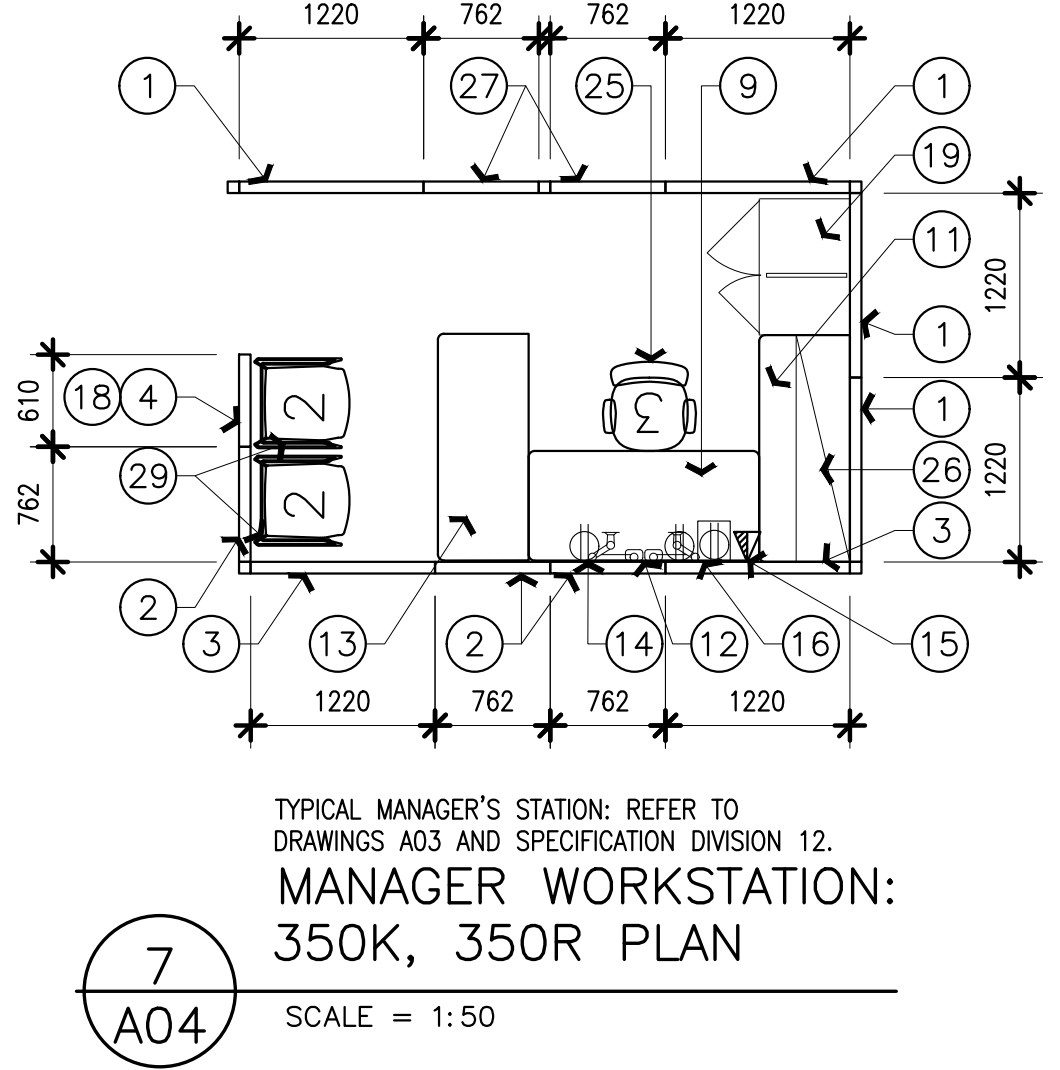
**10**  
A04 **TOUCHDOWN STATIONS: 345 PLAN**  
SCALE = 1:50



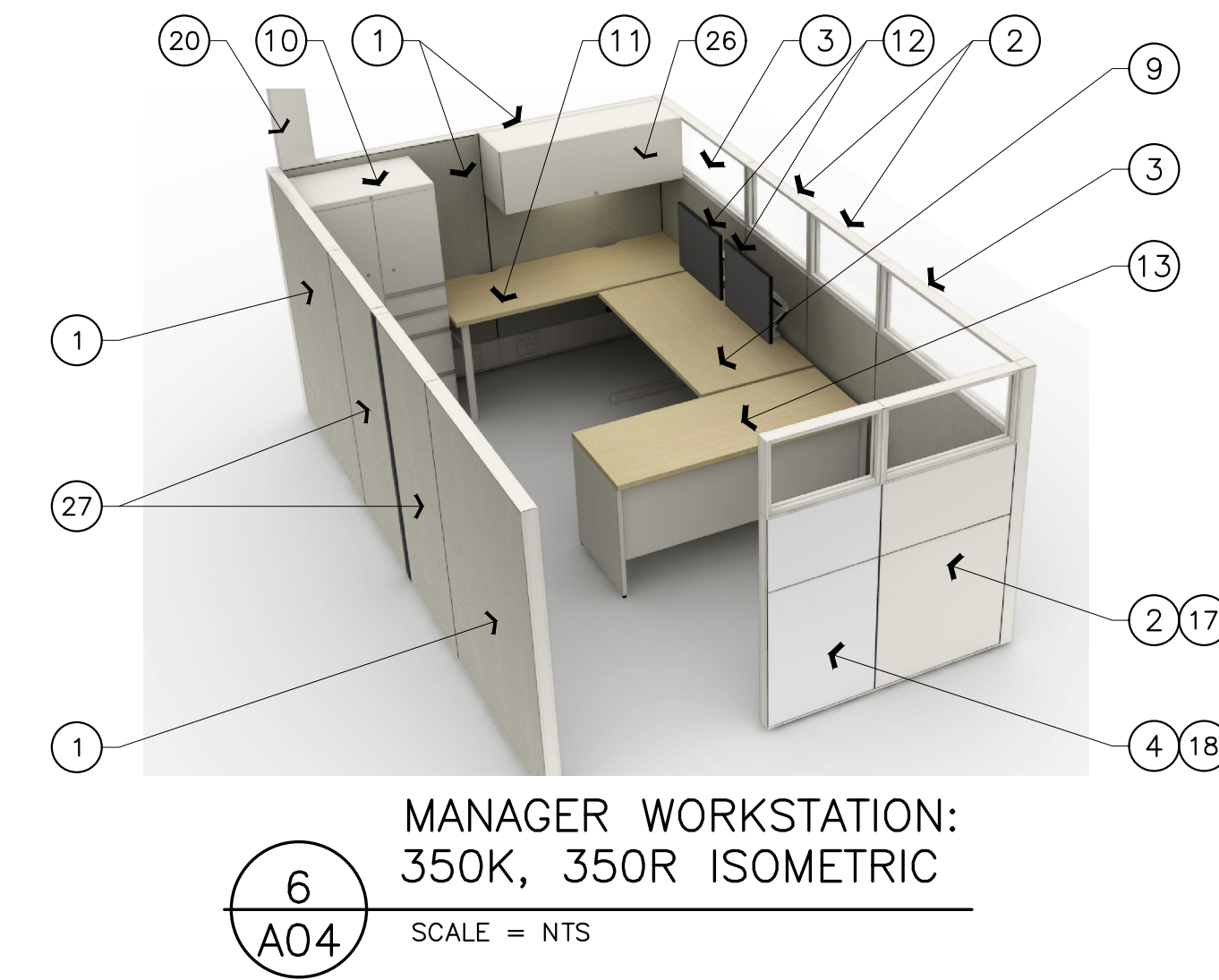
**9**  
A04 **TOUCHDOWN STATIONS: 345 ISOMETRIC**  
SCALE = NTS



**8**  
A04 **TYPICAL MANAGER'S STATION: 348 PLAN**  
SCALE = 1:50



**7**  
A04 **TYPICAL MANAGER'S STATION: 350K, 350R PLAN**  
SCALE = 1:50



**6**  
A04 **MANAGER WORKSTATION: 350K, 350R ISOMETRIC**  
SCALE = NTS



**14**  
A04 **QUIET ROOM/ GUEST CHAIR ISOMETRIC**  
SCALE = NTS



**13**  
A04 **KITCHENETTE TABLE ISOMETRIC**  
SCALE = NTS



**12**  
A04 **HIGH COLLABORATION CHAIR ISOMETRIC**  
SCALE = NTS



**11**  
A04 **MOBILE LOUNGE CHAIR ISOMETRIC**  
SCALE = NTS



**17**  
A04 **STACKING KITCHENETTE CHAIR ISOMETRIC**  
SCALE = NTS



**16**  
A04 **ERGONOMIC WORKSTATION TASK CHAIR ISOMETRIC**  
SCALE = NTS



**15**  
A04 **MEETING ROOM/ TOUCHDOWN STATION TASK CHAIR ISOMETRIC**  
SCALE = NTS

**FURNITURE NOTES**  
SHEET A04 ONLY

- 1220mmW X 1670mmH PANEL.
- 762mmW X 1220mmH PANEL PLUS 1220mmW X 450mmH FRAMED GLASS STACKER.
- 1220mmW X 1220mmH PANEL PLUS 1220mmW X 450mmH FRAMED GLASS STACKER.
- 610mmW X 1220mmH PANEL PLUS 610mmW X 450mmH FRAMED GLASS STACKER.
- ALL PURPOSE COAT HOOK WITHIN STORAGE TOWER.
- PANEL HUNG 610mmW X 1830mmL WORK SURFACE.
- NEW 750mmW X 1220mmD ELECTRIC HEIGHT ADJUSTABLE (686mm - 1173mm) WORK SURFACE.
- PANEL HUNG 762mmW X 1830mmL WORK SURFACE.
- NEW 762mmW X 1524mmD ELECTRIC HEIGHT ADJUSTABLE (686 mm - 1173 mm), MODESTY PANEL, C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT, 381mm X 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- NEW METAL 1676mm X 610mmW X 610mmD STORAGE TOWER WITH CLOSED BOOK CASE WITH DOOR WITH 2 ADJ SHELF AND WITH BBF.
- PANEL-HUNG 610mmW X 1524mmH FIXED HEIGHT RETURN (NO MODESTY PANEL) C/W LED TASK LIGHT WITH OCCUPANCY SENSOR, PROVIDE LEGS ON END BY STORAGE TOWER.
- TWO SINGLE MONITOR ARMS C/W CENTER EDGE CUTOOUT FOR CLAMP. SEE SPECIFICATIONS.
- FREE STANDING 610mmW X 1524mmH FIXED HEIGHT RETURN C/W MODESTY PANEL.
- LOCATION OF NEW POWER IN PANEL HUNG FURNITURE (TYPICAL). SEE SPECIFICATIONS.
- LOCATION OF COMS (DATA AND VOICE) (TYPICAL).
- TYPICAL DESK TOP FOUR (4) PORT POWER MODULE, THREE (3) POWER RECEPTACLES AND ONE (1) USB CHARGING PORT C/W ADJUSTABLE DESK MOUNT BRACKET. REFER TO SPECIFICATIONS.
- PAINTED STEEL PANEL TILES (REFER TO 2/A03 FOR EXTENT OF STEEL TILES).
- MARKER BOARD TILES ON EXTERIOR SIDE OF DIVIDER PANEL.
- NEW METAL 1676mm X 900mmW X 610mmD STORAGE TOWER WITH CLOSED BOOK CASE WITH DOOR WITH 2 ADJ SHELF AND WITH BBF.
- TOP FEED ELECTRICAL POLE. REFER TO ELECTRICAL. COORDINATE W/ FURNITURE SUPPLIER.
- MONITOR, MOUSE AND KEYBOARD NOT IN CONTRACT.
- THREE SHELVES.
- SLIDING KEYBOARD SHELF 100mm RUBBER SWIVEL CASTORS, 2 LOCKING.
- POWER STRIP.
- GUEST CHAIR. SEE SPECIFICATIONS.
- KITCHENETTE TABLE. SEE SPECIFICATIONS.
- MOBILE LOUNGE CHAIR. SEE SPECIFICATIONS.
- PANEL MOUNTED OVERHEAD SHELF (ONLY FOR WORKSTATIONS 347A TO 347L). LIGHT SWITCH TO BE INSTALLED IN THIS LOCATION (TYPICAL).
- STACKING KITCHENETTE CHAIR (SUPPLIED BY NRC, INSTALLED BY CONTRACTORS).
- SINGLE MONITOR ARM C/W CENTER EDGE CUTOOUT FOR CLAMP. SEE SPECIFICATIONS.
- TYPICAL WORKSTATION ERGO TASK CHAIR. SEE SPECIFICATIONS.
- HIGH COLLABORATION CHAIR. SEE SPECIFICATIONS.

No.	Date	Revision	By	For
2	30/05/2022	ÉMIS POUR L'APPEL D'OFFRE	SWH	
1	4/03/2022	ISSUED FOR 66% REVIEW	JDG	

Date Printed: 4/03/2022 Date imprimée:

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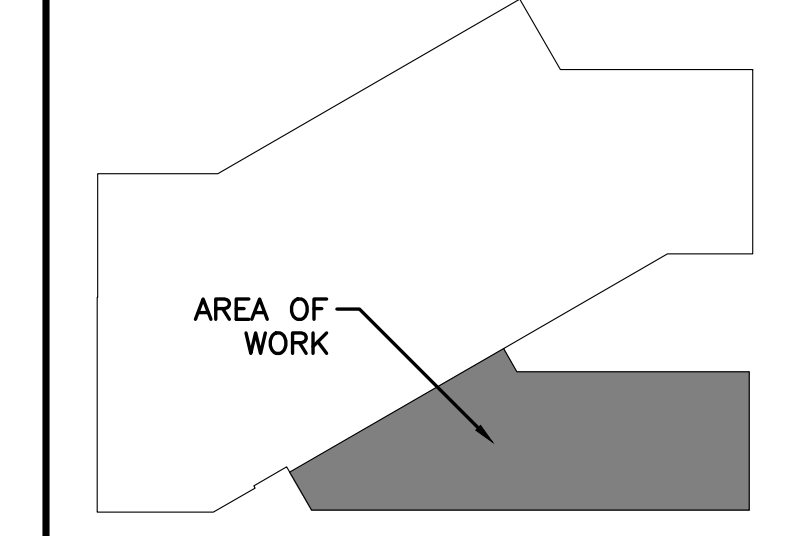
A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT  
drawing: FURNITURE DETAILS

designed	SWH	conçu	date	MAY 2022	date	
drawn	JDG/ MD	dessiné	scale	AS NOTED	échelle	
checked	JDG	vérifié	sheet	5	of/ de	7
approved	JD	approuvé	W.O.no.		D.T.no.	

dwg.no. 6009 - A04 dessin no.

**KEY PLAN PLAN CLÉ**



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2	30/05/2022	ÉMIS POUR L'APPEL D'OFFRE	SWH
1	4/03/2022	ISSUED FOR 66% REVIEW	JDG

No. Date Revision By For

Date Printed: 4/03/2022 Date imprimée:

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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

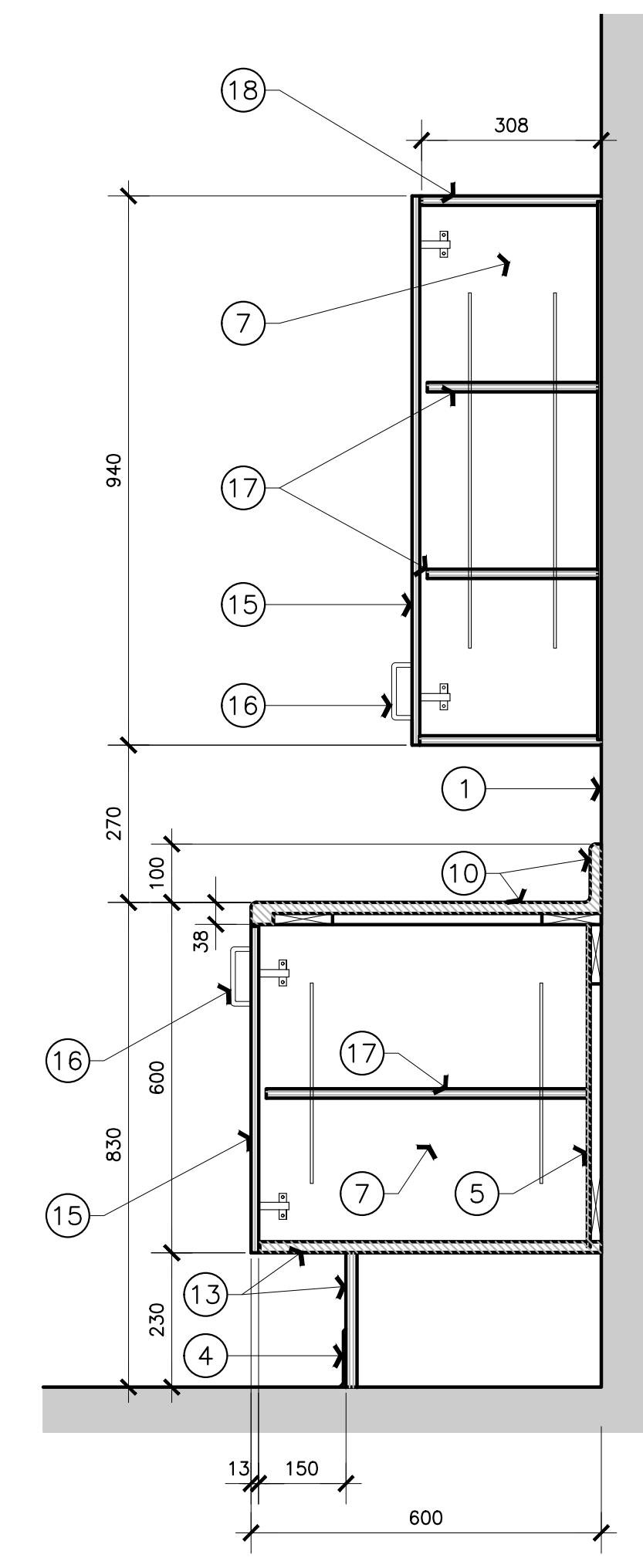
project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT  
drawing: FURNITURE DETAILS

designed	SWH	conçu	date	MAY 2022	date	
drawn	JDG/ MD	dessiné	scale	AS NOTED	échelle	
checked	JDG	vérifié	sheet	5	of/ de	7
approved	JD	approuvé	W.O.no.		D.T.no.	

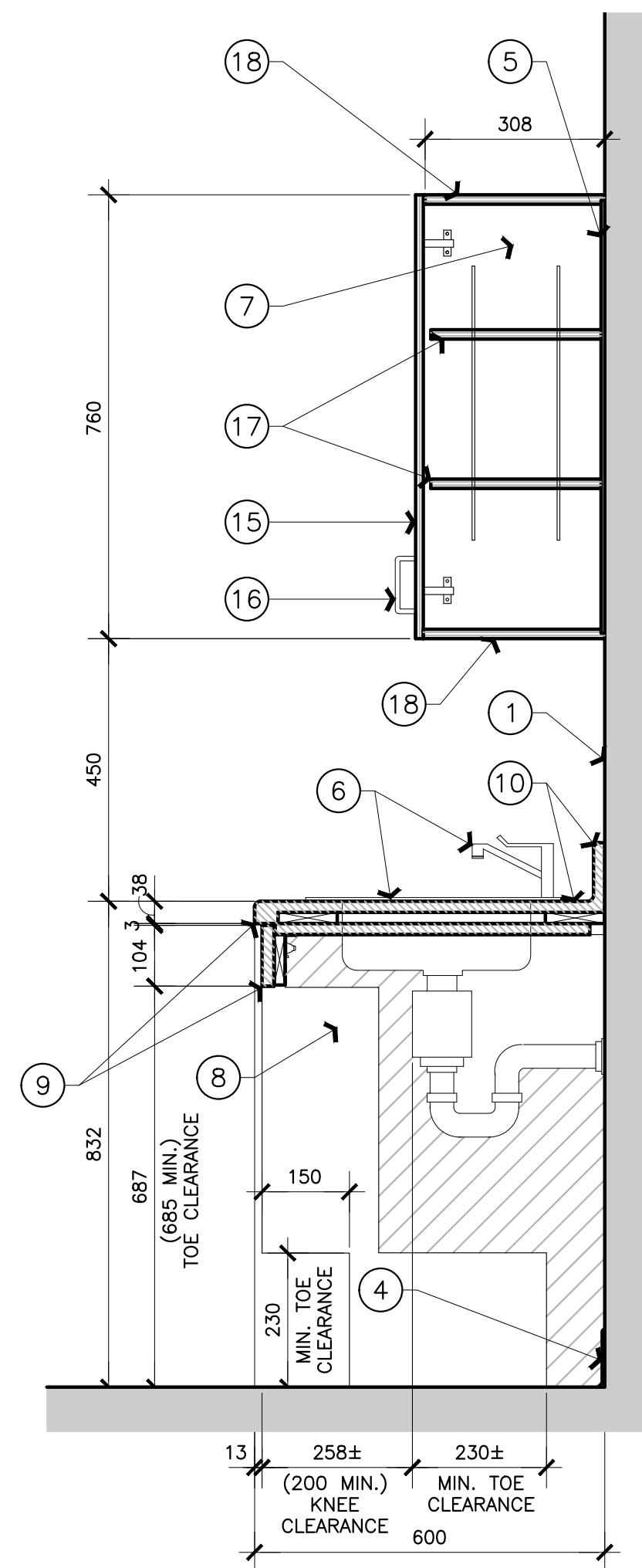
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**GENERAL NOTES**

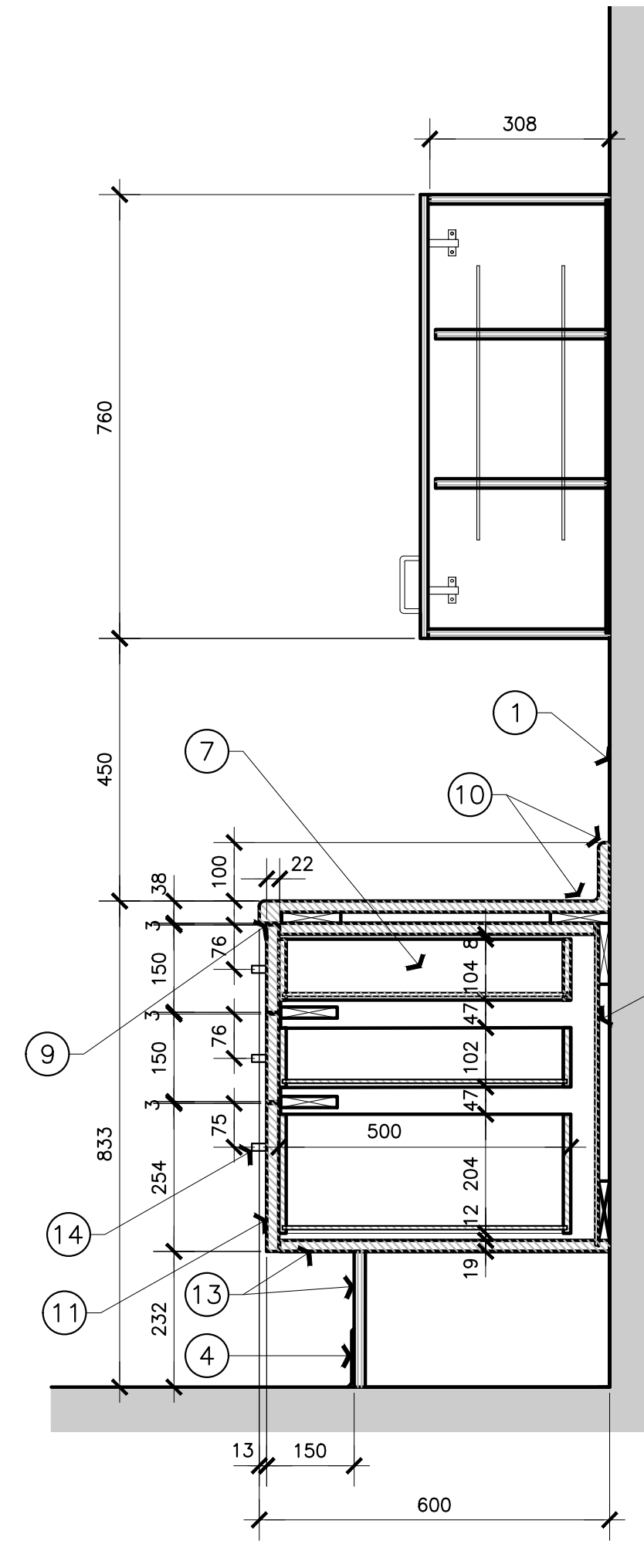
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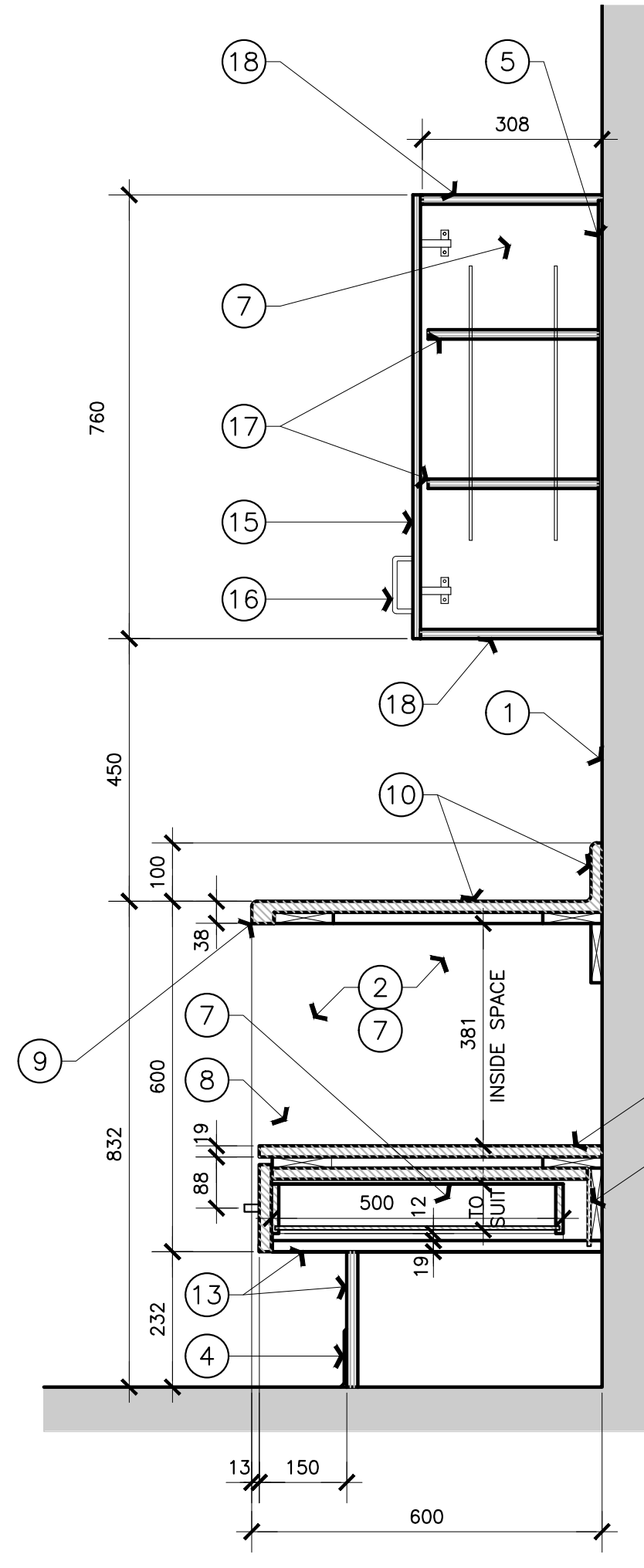
**5** MILLWORK DOORS SECTION  
 A05 SCALE = 1:10



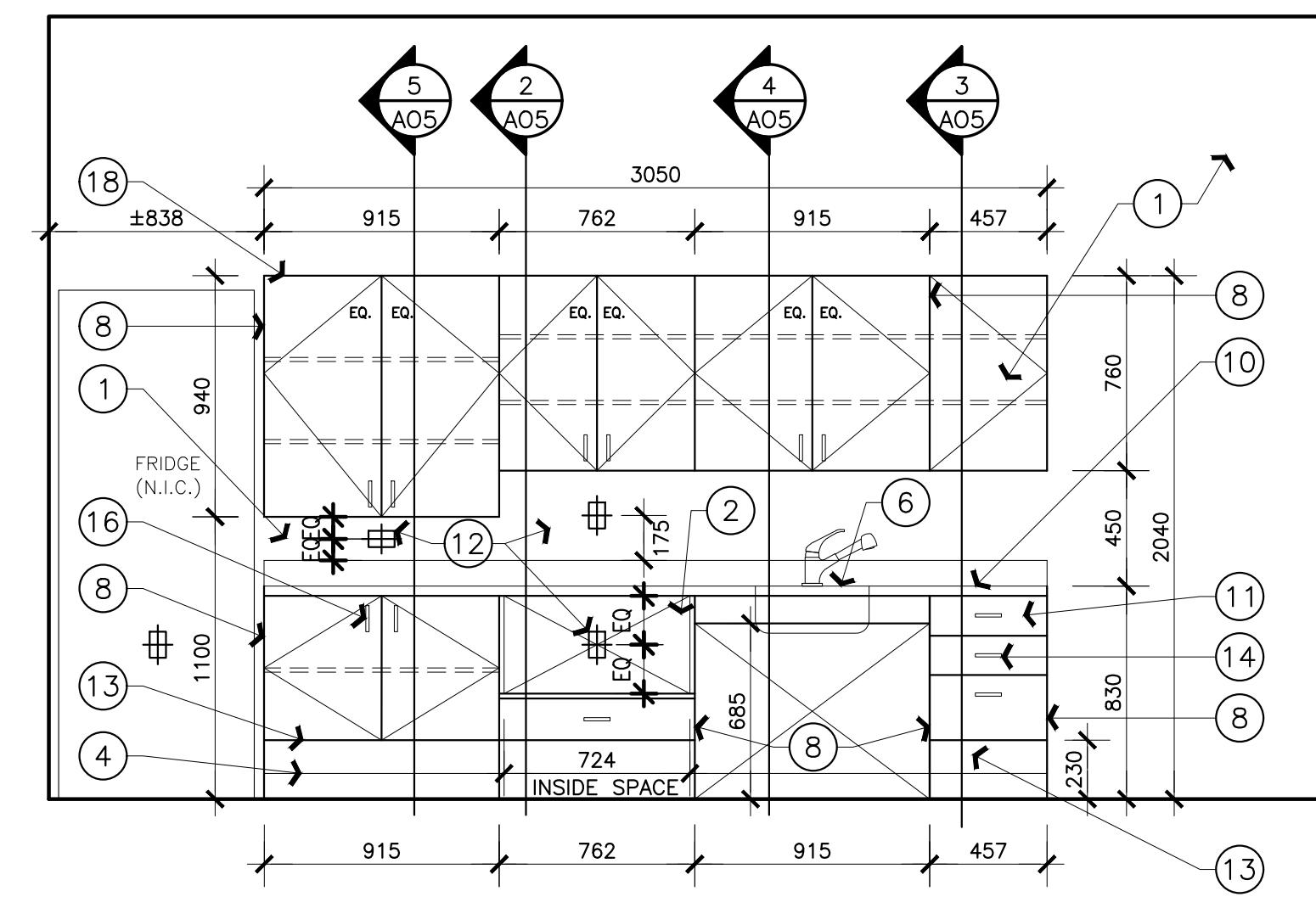
**4** MILLWORK SINK SECTION  
 A05 SCALE = 1:10



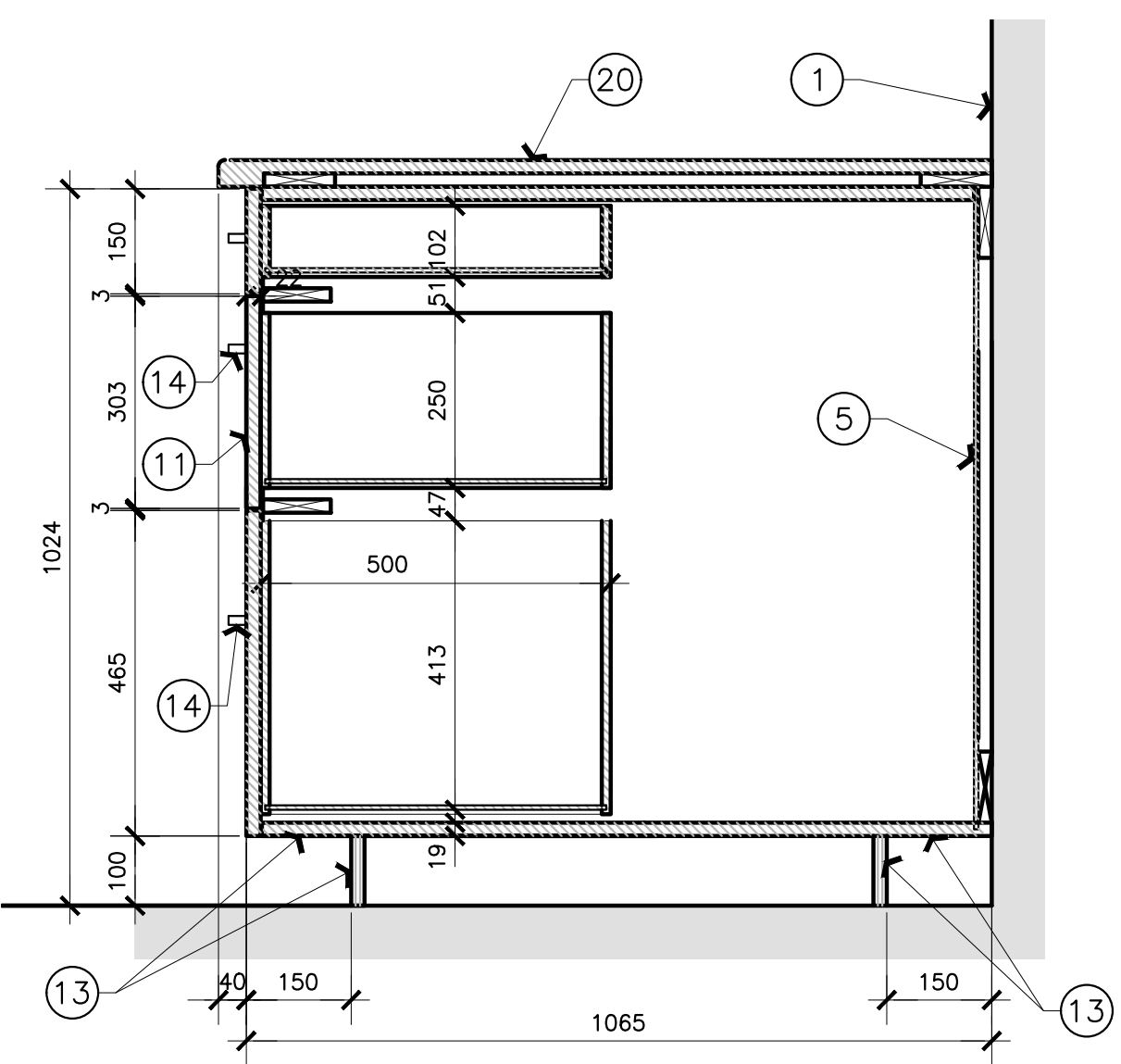
**3** MILLWORK DRAWER SECTION  
 A05 SCALE = 1:10



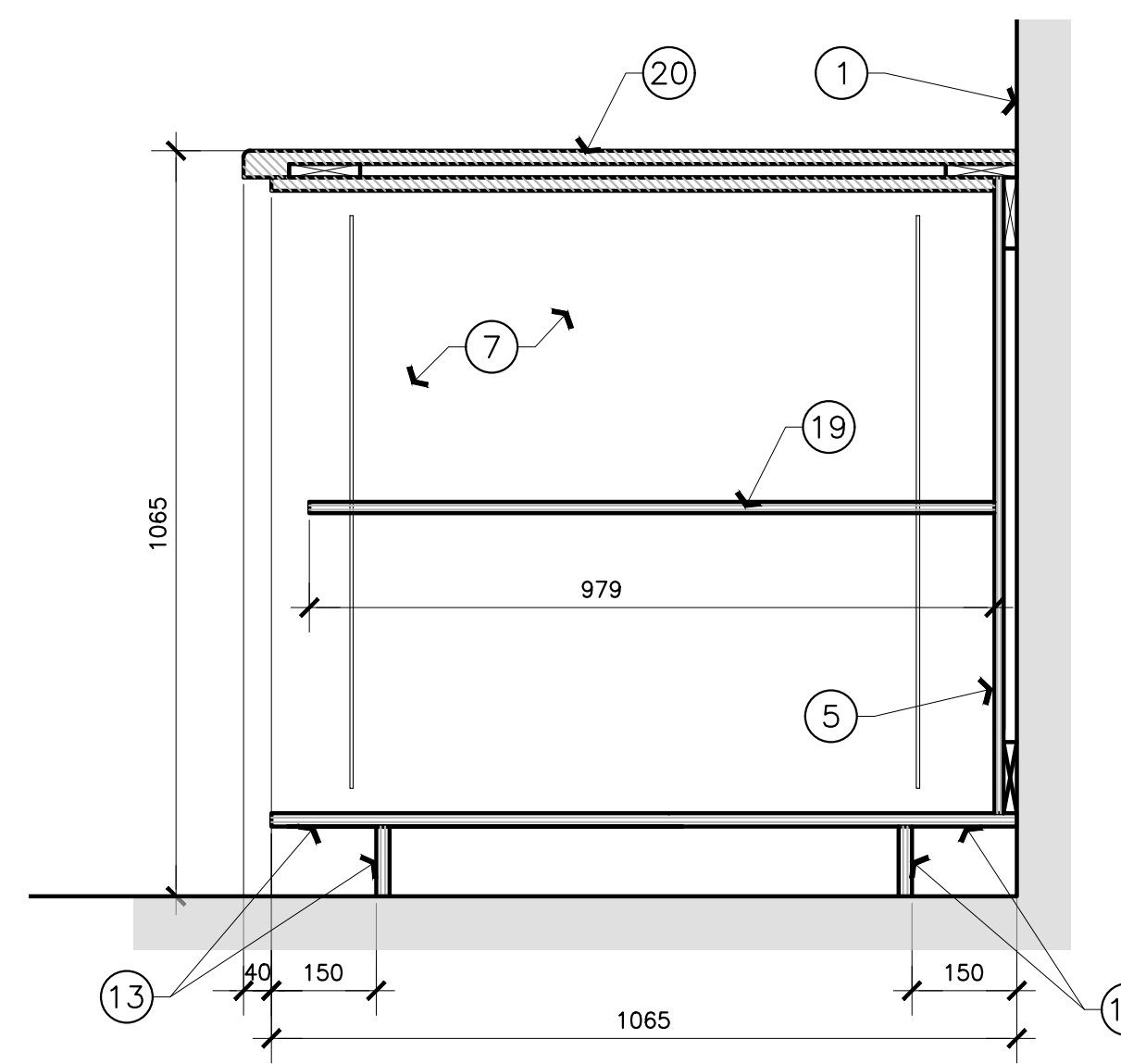
**2** MILLWORK M.W. SECTION  
 A05 SCALE = 1:10



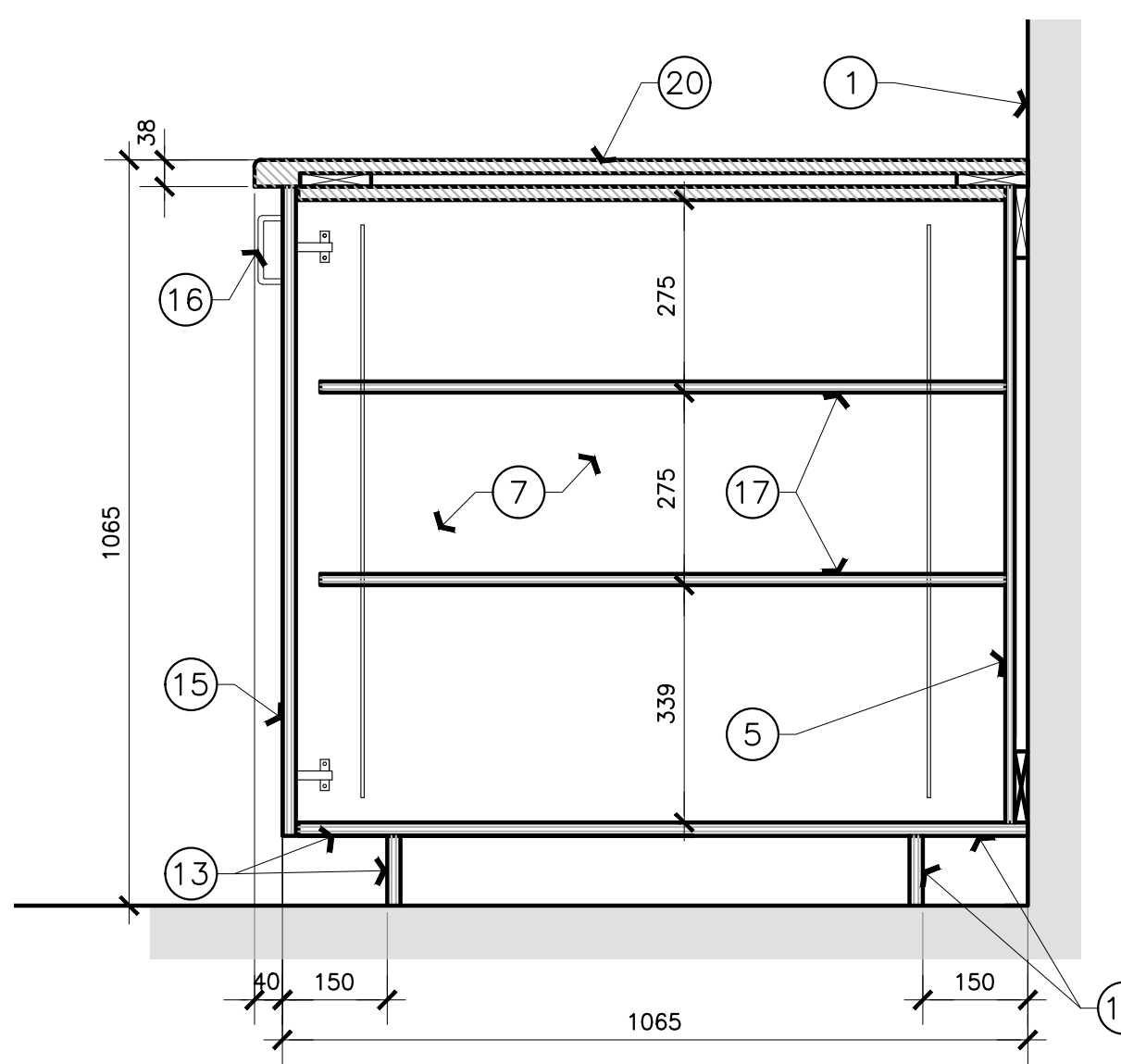
**1** SHARED EQUIPMENT ROOM MILLWORK ELEVATION  
 A05 SCALE = 1:25



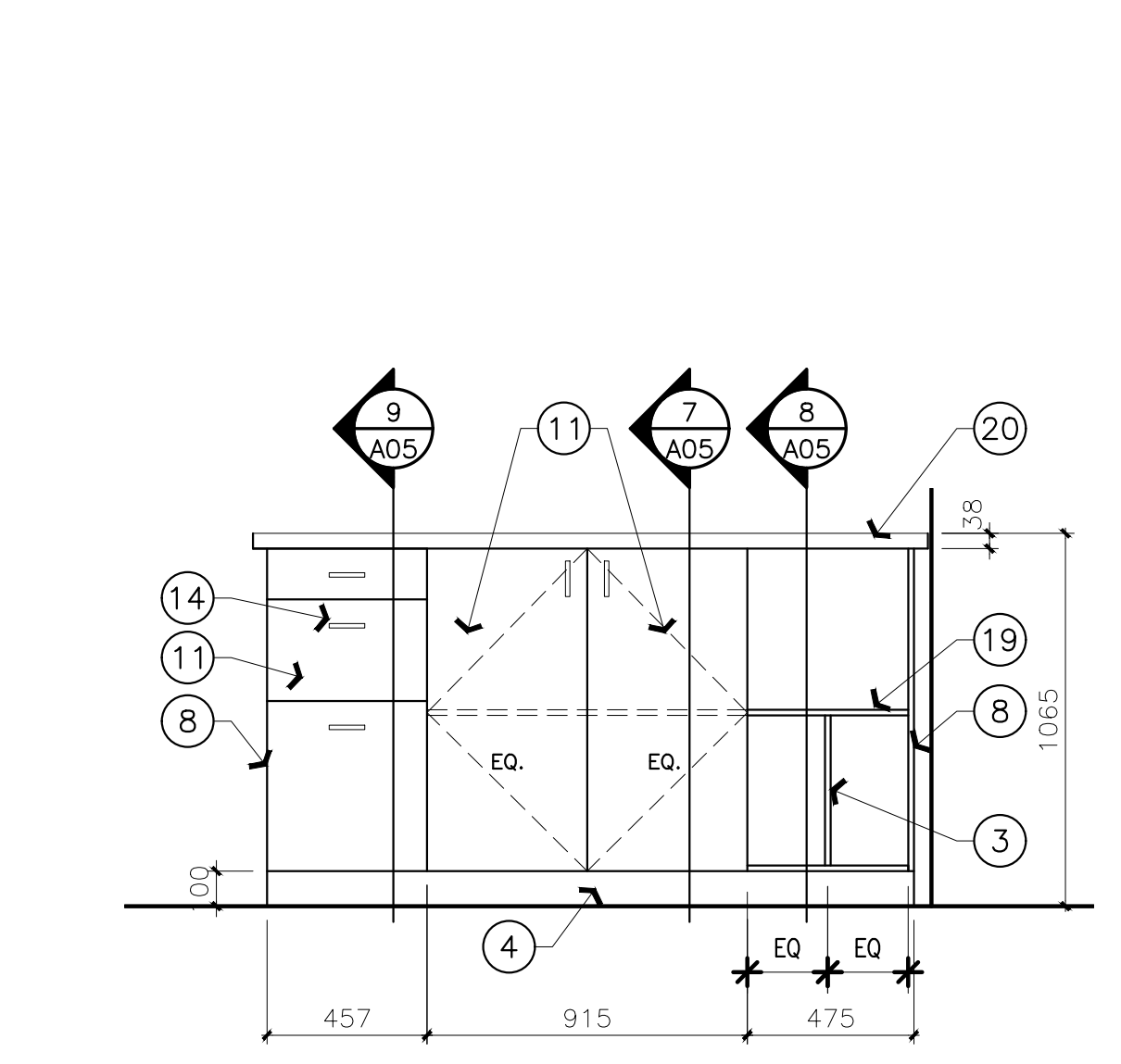
**9** SHARED EQUIP. Rm MILLWORK ELEVATION  
 A05 SCALE = 1:10



**8** SHARED EQUIP. Rm MILLWORK ELEVATION  
 A05 SCALE = 1:10



**7** SHARED EQUIP. Rm MILLWORK ELEVATION  
 A05 SCALE = 1:10



**6** SHARED EQUIP. MILLWORK ELEVATION  
 A05 SCALE = 1:20

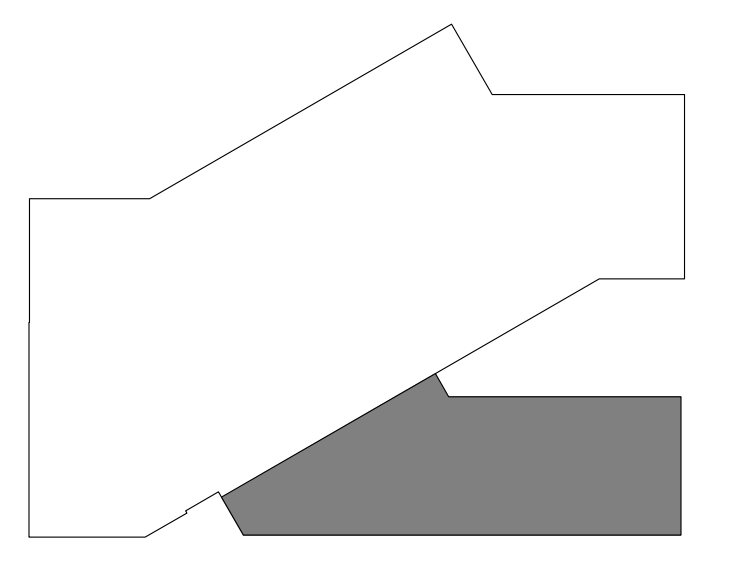
**MILLWORK NOTES**  
 SHEET A05 ONLY

- PAINTED GYPSUM BOARD
- MICROWAVE SAFE CABINET ENCLOSURE. MICROWAVE NOT IN CONTRACT.
- 19mm P.LAM SHELF SUPPORT.
- RUBBER BASEBOARD. REFER TO SPECIFICATIONS.
- 6mm P.LAM BACK PANEL.
- BARRIER FREE SINGLE SINK AND FAUCET. REFER TO MECHANICAL.
- P.LAM FINISH AT ALL INTERIOR SURFACES.
- P.LAM FINISH AT ALL EXPOSED MILLWORK ENDS, TYP.
- LAP P.LAM TO U/S OF COUNTERTOP.
- P.LAM COUNTER TOP WITH BACKSPLASH. (PL-2)
- 22mm P.LAM DRAWER FRONTS.
- RECESSED POWER OUTLET, REFER TO ELECTRICAL.
- P.LAM BASE.
- HORIZONTAL DRAWER PULL.
- P.LAM DOORS
- DOOR PULL HARDWARE
- TWO ADJUSTABLE P.LAM SHELVES
- P.LAM FINISH ON BOTH INTERIOR AND EXTERIOR SIDES OF TOP AND BOTTOM PANELS
- 19mm P.LAM SHELF
- P.LAM COUNTER TOP (PL-2)
- ALL P.LAM FINISH TO BE PL-1, UNLESS OTHERWISE NOTED SUCH AS COUNTERTOP AND BACKSPLASH.

**CASEWORK FINISH LEGEND**

PL-1	WILLSONART	7925-30 MONTICELLO MAPLE
PL-2	WILLSONART	4674-60 EVENING TIGRIS

**KEY PLAN PLAN CLÉ**



7			
6			
5			
4			
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No.	Date	Revision	By/Par.
Date Printed 4/03/2022		Date imprimée	

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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT

MONTREAL ROAD CAMPUS

drawing: MILLWORK ELEVATIONS, SECTIONS AND DETAILS

designed: SWH conçu: date: MAY 2022

drawn: JDG/MD dessiné: scale: AS NOTED

checked: JDG vérifié: sheet: 6 of/de 7

approved: JD approuvé: W.O.no. D.T.no.

dwg.no. 6009 - A05

ROOM No.	ROOM NAME	DOOR						FRAME				NOTES	
		WIDTH	HEIGHT	THICKN.	MAT.	FIN.	COLOUR	TYPE	FIN.	COLOUR	TYPE		
D340	VESTIBULE	-	-	-	-	-	-	-	-	-	-	-	EXISTING DOOR & FRAME
D341	QUIET ROOM	915	2135	50	WOOD	PAINT	PT2	A	F2	PAINT	PT4	610mm SIDE LIGHT (GLAZING WIDTH)	
D342	QUIET ROOM	915	2135	50	WOOD	PAINT	PT2	A	F2	PAINT	PT6	610mm SIDE LIGHT (GLAZING WIDTH)	
D343	ELEC. ROOM	810	2135	50	WOOD	PAINT	PT2	B	F1	PAINT	PT5		
D344	QUIET ROOM	915	2135	50	WOOD	PAINT	PT2	A	F3	PAINT	PT3	406mm SIDE LIGHT (GLAZING WIDTH)	
D346	KITCHEN/EQUIP. ROOM	915	2135	50	WOOD	PAINT	PT2	A	F3	PAINT	PT2	610mm SIDE LIGHT (GLAZING WIDTH)	
D349	MEETING ROOM	915	2135	50	WOOD	PAINT	PT2	A	F2	PAINT	PT2		
D351	STAIR WELL	-	-	-	-	-	-	-	-	-	-	EXISTING DOOR & FRAME	

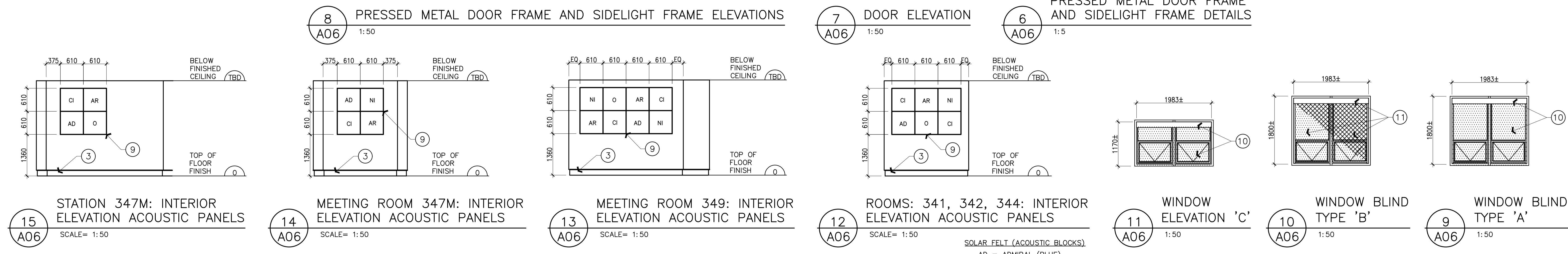
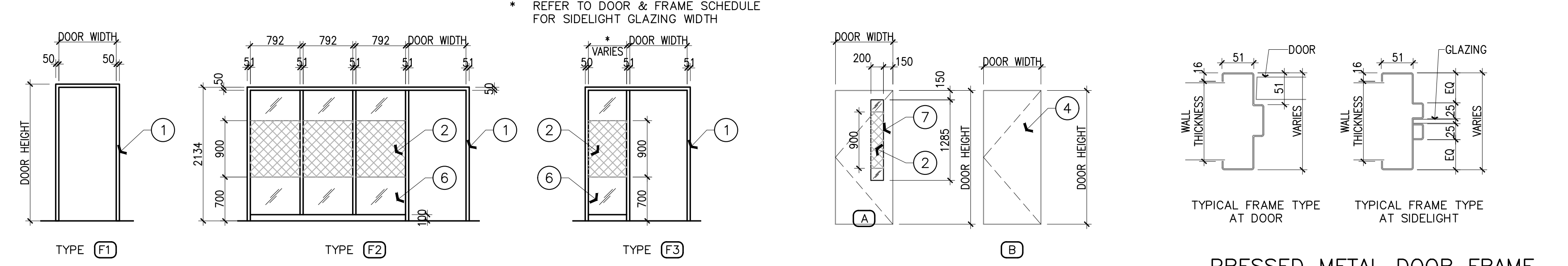
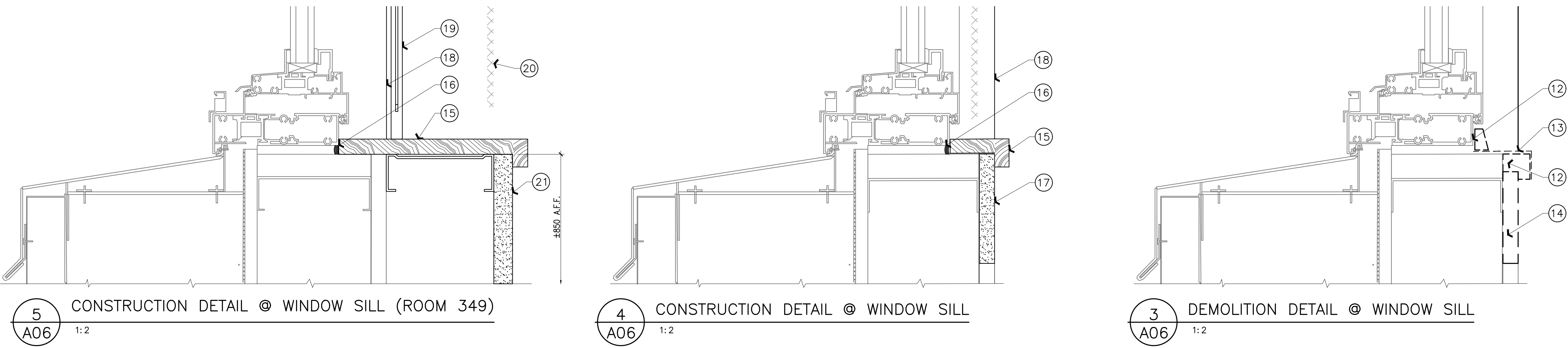
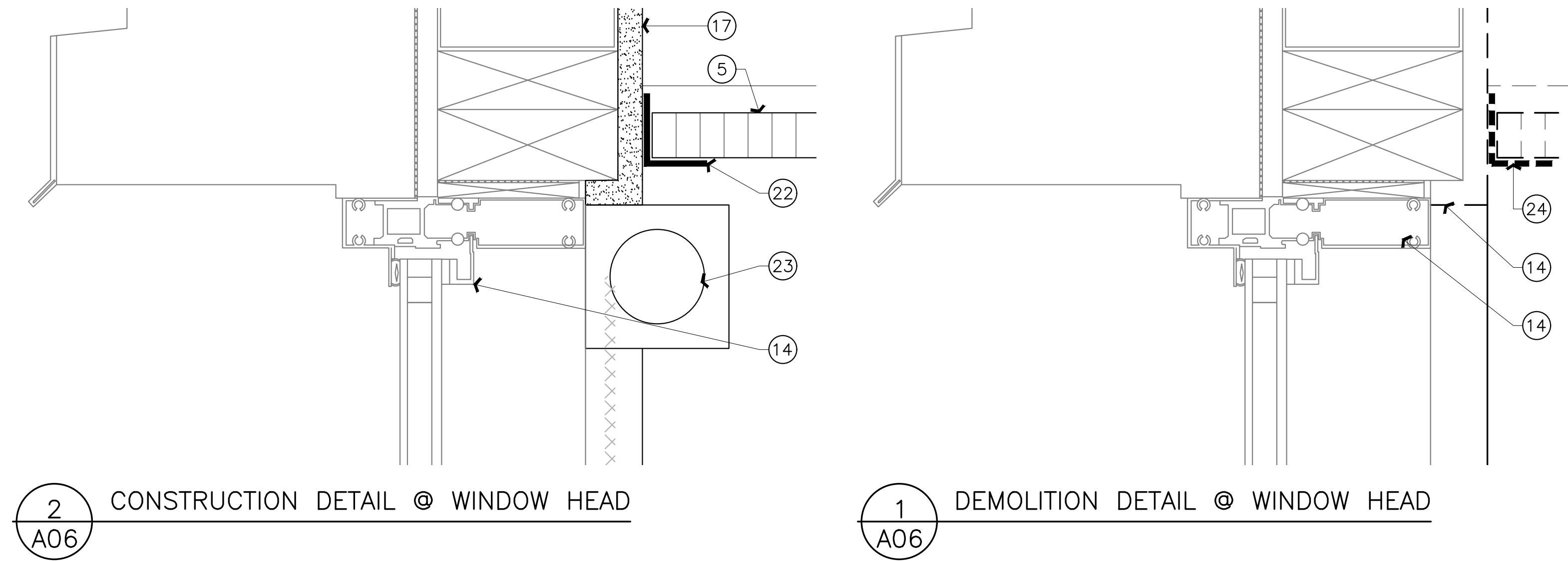
REFER TO FINISH HARDWARE SPECIFICATIONS FOR DOORS.

PT1	SHERWIN WILLIAMS	ELDER WHITE	SW 7014
PT2	SHERWIN WILLIAMS	GAUNTLET GREY	SW 7019
PT3	SHERWIN WILLIAMS	DYNAMIC BLUE	SW 6958
PT4	SHERWIN WILLIAMS	OVERT GREEN	SW 6718
PT5	SHERWIN WILLIAMS	BEE	SW 6683
PT6	SHERWIN WILLIAMS	VERVE VIOLET	SW 6975

ROOM No.	ROOM NAME	FLOOR		BASE		NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING	HEIGHT(mm)	NOTES
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.			
340	SEATING AREA	CONC	CPT	RWB	150	GB	PT1	GB	PT2	GB	PT1	GB	PT1	ACP	2770	
341	QUIET ROOM	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT4	GB	PT1	ACP	2770	
342	QUIET ROOM	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT6	GB	PT1	ACP	2770	
343	ELECTRICAL ROOM	CONC	VCT	RWB	150	GB	-	GB	PT1	GB	PT1	GB	-	ACP	2770	REFER TO PLAN FOR EXTENT OF PC350 REMOVALS
344	QUIET ROOM	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT3	GB	PT1	ACP	2770	
345	TOUCHDOWN STATIONS	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT3	GB	PT1	ACP	2770	
346	KITCHEN/SHARED EQPT AREA	CONC	VCT	RWB	150	GB	PT1	GB	PT1	GB	PT2	GB	PT1	ACP	2770	
347	OPEN OFFICE	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT1	GB	PT1	ACP	2770	
348	CORRIDOR	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT1	GB	PT1	ACP	2770	
349	MEETING ROOM	CONC	CPT	RWB	150	GB	PT2	GB	PT1	GB	PT1	GB	PT1	ACP/GB	6,7/A02	CEILING HEIGHT; GB @ ±2745mm / ACP @ ±2850mm
350	OPEN OFFICE	CONC	CPT	RWB	150	GB	PT1	GB	PT1	GB	PT1	GB	PT1	ACP	2770	
351	STAIRWELL	-	-	-	-	-	-	-	-	-	-	-	-	ACP	EXISTING	NEW CEILING INSTALLED AT SAME HEIGHT AS EXISTING.

- ### CONSTRUCTION NOTES
- SHEET A06 ONLY
- PRESSED STEEL DOOR FRAME
  - WINDOW FILM
  - RUBBER WALL BASE
  - SOLID CORE WOOD DOOR
  - NEW L.I.T. CEILING C/W SUSPENSION SYSTEM.
  - 6mm GLAZING
  - DOOR VISION PANEL (200mm X 1384mmH)
  - 12mm TRANSLUCENT PANEL. REFER TO SPECIFICATION SECTION 06.06.60
  - 610mm x 610mm x 50mm MOUNTED ACOUSTIC SOUND BLOCKS, c/w 6mm PET FELT. (SIMILAR TO 3 FORM HUSH BLOCKS & 300.43) SOUND ABSORPTION: NRC 80.
  - WINDOW TYPE 'A' AND 'C':  
INSTALL NEW SOLAR BLINDS 26 SHEERWEAVE (PHIFER) ROLLER BLINDS 3%, COLOUR P14, OYSTER/ PEARL GRAY. CHAIN OPERATED, INSIDE FRAME MOUNT, COMPLETE WITH ALUMINUM CLEAR ANODIZED VALANCE.
  - WINDOW TYPE 'B':  
INSTALL NEW DUAL SOLAR BLINDS, SHADE #1 26 SHEERWEAVE (PHIFER) 3%. AND SHADE #2 OPAQUE FABRIC BLINDS WITH SIDE CHANNELS. INSIDE BLACK, OUTSIDE WHITE. CHAIN OPERATED, INSIDE FRAME MOUNT, COMPLETE WITH ALUMINUM CLEAR ANODIZED VALANCE.
  - SAW CUT AND REMOVE EXISTING PLYWOOD WINDOW SILL EXTENTION AND DISPOSE OF OFF SITE. PLYWOOD TO REMAIN.
  - REMOVE EXISTING GYPSUM BOARD AT PERIMETER WALLS. REFER TO DEMOLITION DRAWING 1/A01 FOR EXTENT OF REMOVAL.
  - NEW SOLID WOOD WINDOW SILL. SILL DEPTH TO SUIT WALL.
  - CAULK AND SEAL JOINT PRIOR TO NEW WINDOW SILL INSTALLATION.
  - NEW 13mm GYPSUM BOARD. REFER TO CONSTRUCTION DRAWING 1/A02 FOR EXTENT OF REPLACEMENT.
  - EDGE OF NEW GYPSUM BOARD JAMB BEYOND.
  - SIDE CHANNEL FOR OPAQUE FABRIC BLINDS.
  - SOLAR BLINDS, SHEERWEAVE 3%
  - FURR OUT PARTITION BELOW NEW WOOD WINDOW SILL: NEW 16mm TYPE 'X' GYPSUM BOARD ON 92mm STEEL STUDS @ 406mm O.C. EXTEND LOW PARTITION FULL LENGTH OF WALL. SEE FLOOR PLAN.
  - PERIMETER WALL-MOUNTED CEILING GRID.
  - NEW SOLAR BLINDS. SEE 9,10,11/A06 FOR BLIND TYPE.
  - REMOVE AND DISPOSE OF EXISTING CEILING SYSTEM.
  - PROTECT EXISTING WINDOW UNIT DURING WORK.

- ### DOOR AND DOOR FRAME GENERAL NOTES
- INSTALLER TO ASSUME RESPONSIBILITY FOR CONFIRMING ALL DIMENSIONS ON SITE AND ALLOW FOR CLEARANCE FOR FLOOR. SITE MEASURE AT EACH DOOR LOCATION. CONFIRM PARTITION DEPTH FOR FRAMES.
- ALL DOORS TO BE SHOP FINISHED
- COORDINATE HARDWARE REQUIREMENTS WITH HARDWARE SUPPLIER TO ENSURE A FULL FINISHED INSTALLATION
- PROVIDE WOOD BLOCKING AT SIDELIGHT AND FRAMES TO ENSURE A RIGID ASSEMBLY.
- ADJUST ALL NEW AND EXISTING HARDWARE TO OPERATE SMOOTHLY.
- DOOR MATERIALS  
SCWD - SOLID CORE WOOD DOOR  
HM - HOLLOW METAL
- GLAZED PARTITION SYSTEMS TO BE JOINED WITHOUT PROFILES USING DOUBLE SIDED ADHESIVE TAPE AS PER MANUFACTURER'S SPECS.
- REFER TO DOOR SCHEDULE TO DOOR SIZES AND NUMBER OF PANELS.
- REFER TO DOOR SCHEDULE FOR GLAZING SIZES AND REMARKS
- ALL HM AND SCWD DOORS TO BE PAINTED PT2.
- ALL HM FRAMES TO BE PAINTED AS INDICATED IN SCHEDULE.



SOLAR FELT (ACOUSTIC BLOCKS)  
AD = ADMIRAL (BLUE)  
AR = ARMOR (MEDIUM GREY)  
CI = CITRINE (YELLOW)  
NI = NICKEL (LIGHT GREY)  
O = ARIES (ORANGE)

NRC - CNRC  
GENERAL NOTES

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- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

### KEY PLAN

PLAN CLÉ

AREA OF WORK

7			
6			
5			
4			
3			
2	30/05/2022	ISSUED FOR TENDER	SWH
1	4/03/2022	ISSUED FOR 66% REVIEW	JDG
No.	Date	Revision	Rev. Par.

Date Printed: 4/03/2022 Date Imprimée:

Verify all dimensions and site conditions and be responsible for same.  
Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

A Detail no. / No. du détail  
B Location drawing no. / sur dessin no.  
C Drawing no. / dessin no.

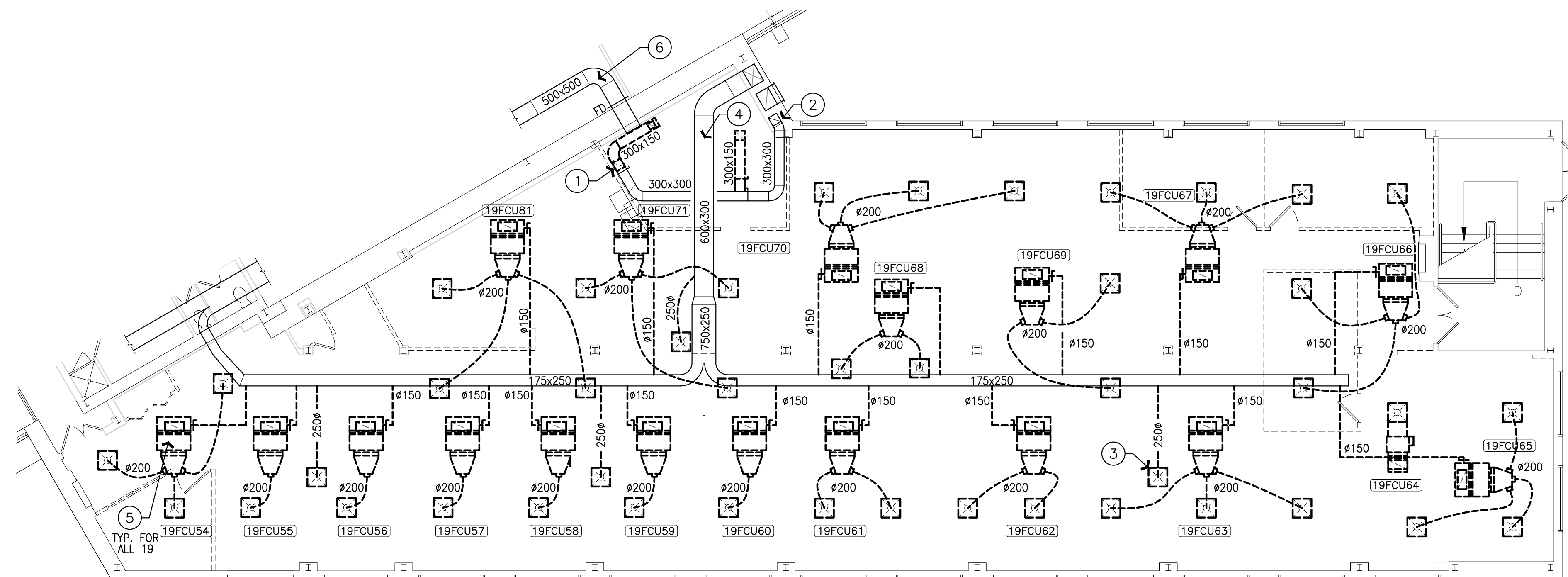
project: M19, ROOM 340, ENGINEERING CONSTRUCTION OFFICE ACCOMMODATION PILOT PROJECT  
dessin

MONTREAL ROAD CAMPUS

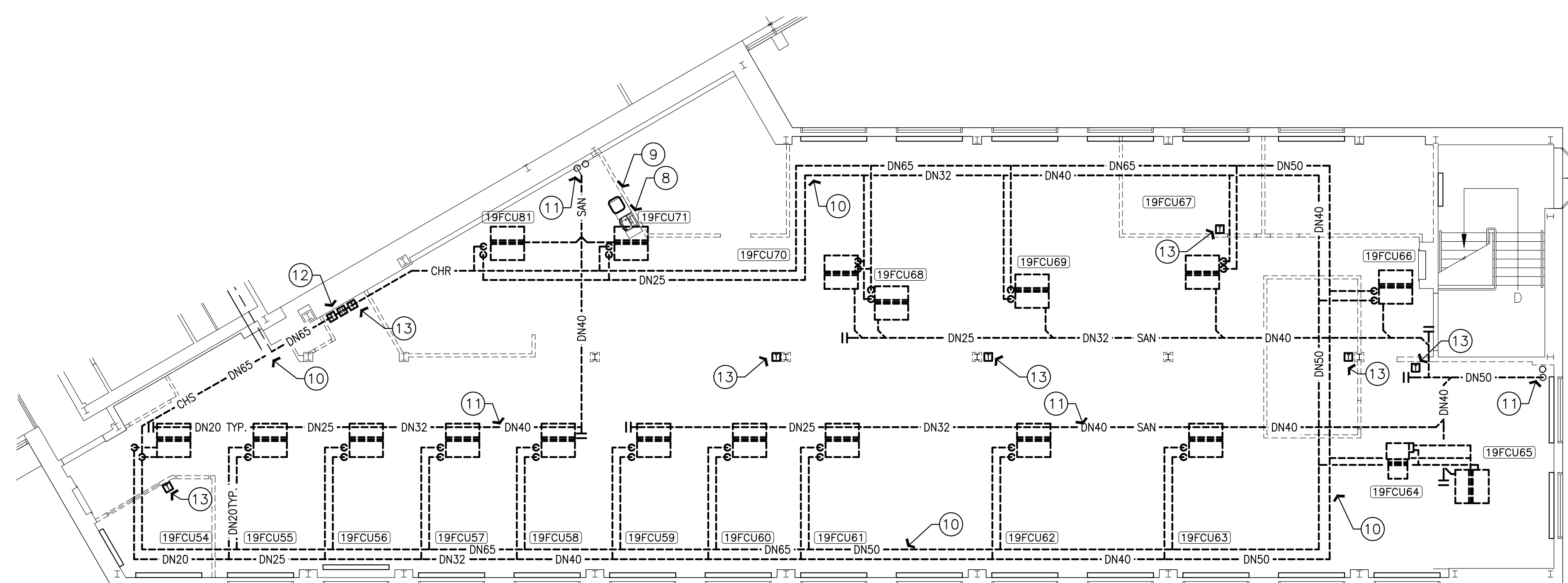
drawing: DOOR DETAILS AND SCHEDULE, AND FINISHES DETAILS AND SCHEDULES  
dessin

designed	SWH	conçu	date	MAY 2022	date
drawn	JDG/MD	dessiné	scale	AS NOTED	échelle
checked	JDG	vérifié	sheet	7 of/ de 7	feuille
approved	JD	approuvé	W.O.no.		D.T.no.

dwg.no. 6009 - A06 dessin no.



1 DEMOLITION PLAN: DUCTWORK  
M01 SCALE 1:100



2 DEMOLITION PLAN: PIPING  
M01 SCALE 1:100

CONSTRUCTION NOTES  
SHEET M01 ONLY

- DISCONNECT AND REMOVE EXISTING EXHAUST FAN 19XF16 ON THE ROOF C/W EXHAUST GRILLES, RELATED EXHAUST DUCTWORK AS SHOWN, AND CONTROLS. ROOF CURB AND PENETRATION TO REMAIN.
- EXISTING EXHAUST DUCTWORK FROM BELOW TO REMAIN FOR FUTURE CONNECTION.
- DISCONNECT AND REMOVE EXISTING OUTSIDE AIR FLEXIBLE DUCTWORK CONNECTIONS AND OUTSIDE AIR DIFFUSERS AS INDICATED, TYPICAL OF 4.
- EXISTING OUTSIDE AIR RECTANGULAR DUCTWORK TO REMAIN.
- DISCONNECT AND REMOVE ALL NINETEEN (19) FAN COIL UNITS C/W SUPPLY & RETURN DUCTWORK, SUPPLY DIFFUSERS, AND RETURN GRILLES.
- EXISTING RETURN AIR DUCTWORK TO REMAIN.
- NOT USED.
- DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN. REMOVE RELATED DOMESTIC COLD WATER, SANITARY DRAIN, AND VENT PIPING BACK TO MAIN AND CAP.
- DISCONNECT AND REMOVE EXISTING SINK C/W FAUCET AND IN-SINK HOT WATER DISPENSER. REMOVE RELATED DOMESTIC COLD & HOT WATER, SANITARY DRAIN AND VENT PIPE BACK TO MAIN AND CAP.
- REMOVE CHILLED WATER SUPPLY & RETURN PIPING BACK TO MAIN AS SHOWN. PROVIDE BALL VALVE AND CAP MAIN FOR FUTURE CONNECTION.
- REMOVE SANITARY DRAIN PIPING FROM FAN COIL UNIT CONDENSATE PAN BACK TO RISER AND CAP FOR FUTURE CONNECTION.
- REMOVE EXISTING SPACE TEMPERATURE AND HUMIDITY SENSORS BY DIV. 25.
- REMOVE ALL SMART SENSORS CONTROLLING EXISTING FAN COIL UNITS AND PERIMETER HEATING VALVES BY DIV. 25.



GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

No.	Date	Revision	By:
2	30-05-2022	ISSUED FOR TENDER	PJS
1	21-07-2021	ISSUED FOR TRANSLATION	ZM
0	16-07-2021	ISSUED FOR REVIEW	ZM

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project: M19, Room 340, Engineering Construction Office  
Accommodation Pilot Project

MONTREAL ROAD CAMPUS

drawing: MECHANICAL: DEMOLITION PLANS

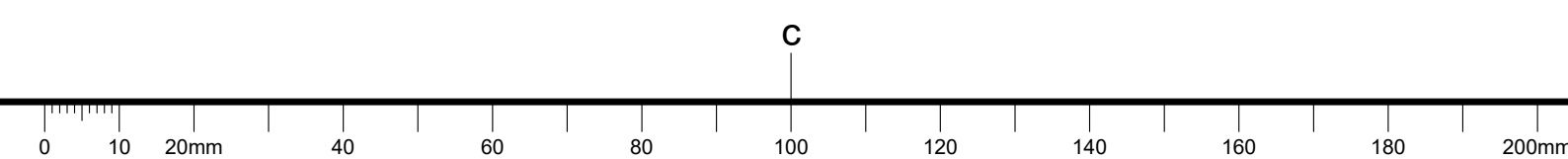
designed: Z. M. / P.J.S. conqvu: MAY 2022 date

drawn: S. C. / Z. M. / P.J.S. scale: AS NOTED échelle

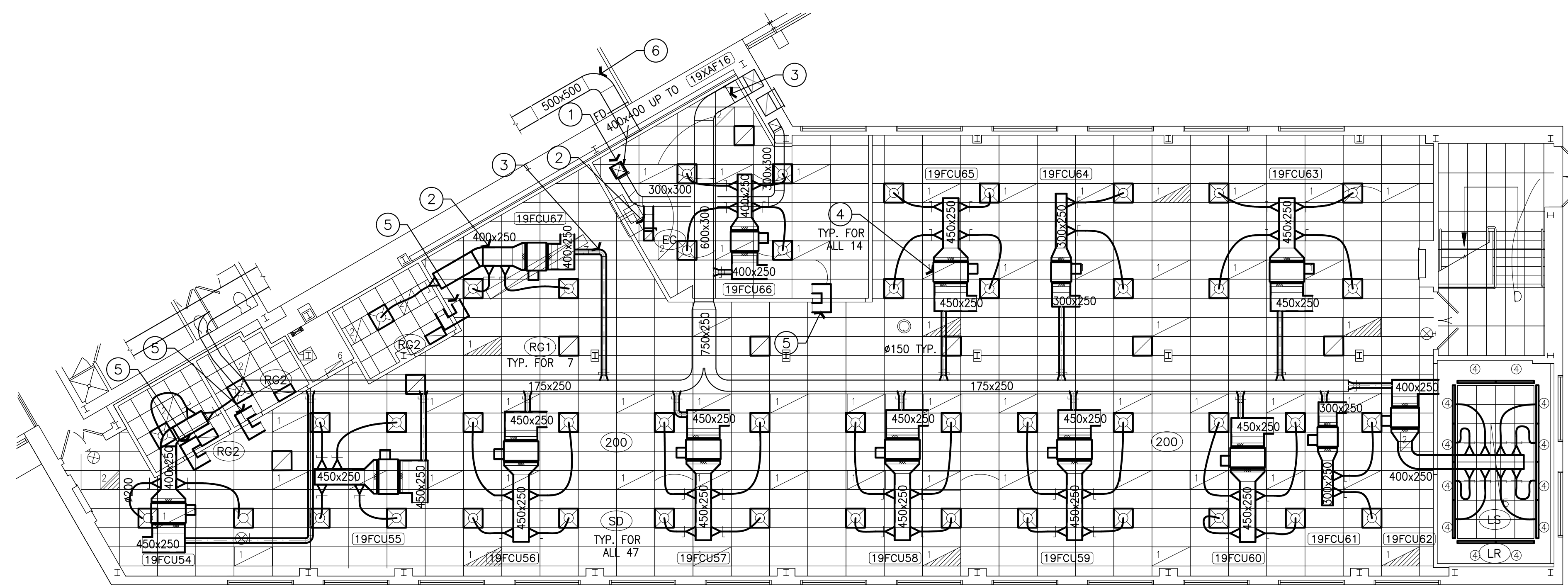
checked: Z. F. vérifié sheet: 8 of/de 14 feuille

approved: A. L. S. approuvé W.O.no. D.T.no.

dwg.no. 6009 - M01 dessin no.



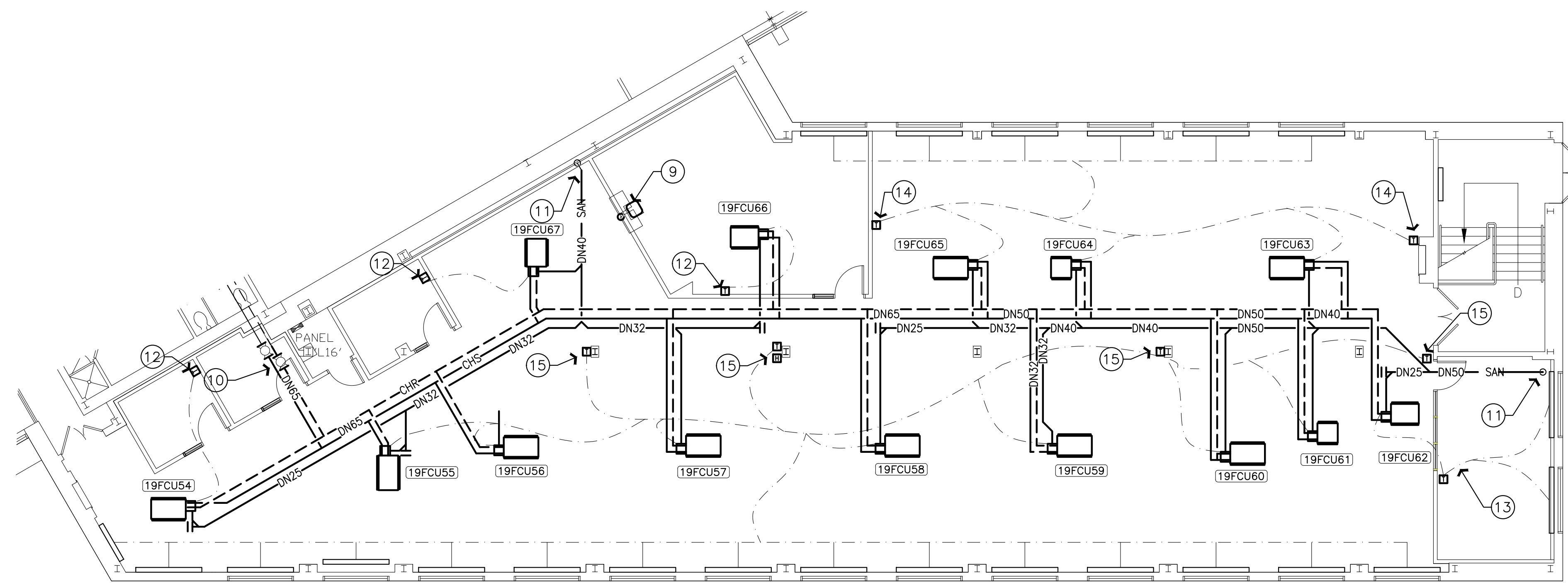




1 NEW CONSTRUCTION PLAN: DUCTWORK  
SCALE 1:100

OUTSIDE AIR FLOW

O.A. CONNECTION	O.A. FLOW	
	L/s	CFM
<b>3RD FLOOR OFFICES</b>		
19FCU54	28.3	60
19FCU55	23.6	50
19FCU56	23.6	50
19FCU57	23.6	50
19FCU58	23.6	50
19FCU59	23.6	50
19FCU60	23.6	50
19FCU61	11.4	25
19FCU62	33.0	70
19FCU63	33.0	70
19FCU64	16.5	35
19FCU65	33.0	70
19FCU66	33.0	70
19FCU67	35.4	75
<b>2ND FLOOR OFFICES</b>		
19FCU18	37.8	80
19FCU19	37.8	80
19FCU20	37.8	80
19FCU21	37.8	80
19FCU22	37.8	80
19FCU23	37.8	80
19FCU24	37.8	80
19FCU25	37.8	80
19FCU26	37.8	80
19FCU27	37.8	80
TOTAL	731.6	1550



2 NEW CONSTRUCTION PLAN: PIPING  
SCALE 1:100

CONSTRUCTION NOTES  
SHEET M02 ONLY

- PROVIDE NEW EXHAUST FAN 19XAF16. NEW FAN TO BE INSTALLED ON EXISTING ROOF CURB. PROVIDE CURB ADAPTOR IF REQUIRED. REFER TO SCHEDULE ON DRAWING M03 FOR FAN DETAILS.
- PROVIDE NEW EXHAUST DUCTWORK C/W BALANCING DAMPER AND EXHAUST GRILLE AS SHOWN. CONNECT TO EXISTING EXHAUST DUCTWORK FROM FLOOR BELOW. EXHAUST DUCTWORK INSIDE SHARED EQUIPMENT ROOM/KITCHENETTE CEILING SPACE TO BE ACOUSTICALLY LINED AS PER SPEC. BALANCE EXHAUST AIR FLOW FROM EXHAUST GRILLE TO 70.8 L/S (150 CFM). BALANCE EXHAUST FLOW FROM FLOOR BELOW TO 236 L/S (500 CFM). BALANCING SHOULD BE DONE BY ADJUSTING THE ECM SPEED DIAL OF EXHAUST FAN AND MINIMUM ADJUSTMENT OF THE BALANCING DAMPERS. RECORD AND SUBMIT FAN RPM TO DIV. 25.
- EXISTING RECTANGULAR OUTSIDE AIR DUCTWORK TO REMAIN. PROVIDE NEW ROUND OUTSIDE AIR DUCTWORK TO NEW FAN COIL UNITS. ALL ROUND BRANCHES CONNECTING TO FAN COIL UNITS AND SUPPLY DIFFUSERS ARE #150 mm. OUTSIDE AIR DUCTWORK INSIDE MEETING ROOM 349 AND SHARED EQUIPMENT ROOM/KITCHENETTE CEILING SPACE TO BE ACOUSTICALLY LINED AS PER SPEC. INSULATE THE REST OF OUTSIDE AIR DUCTWORK AS PER SPEC. BALANCE OUTSIDE AIR FLOW ACCORDING TO TABLE ON THIS DRAWING.
- PROVIDE NEW FAN COIL UNITS C/W RELATED SUPPLY & RETURN DUCTWORK, ROUND ACOUSTIC INSULATED FLEXIBLE DUCTWORK, SUPPLY DIFFUSERS, RETURN GRILLES & DIFFUSERS AS SHOWN. ALL RIGID SUPPLY AND RETURN DUCTWORK TO BE ACOUSTICALLY LINED AS PER SPEC. FLEXIBLE DUCTWORK TO SQUARE DIFFUSERS ARE #200 mm, AND #150 mm TO LINEAR DIFFUSER PLENUMS. REFER TO SCHEDULE ON DRAWING M03 FOR DETAILS OF FAN COIL UNITS, DIFFUSERS, AND GRILLES. BALANCE AIR FLOW TO EACH SUPPLY DIFFUSER ACCORDING TO SCHEDULE.
- PROVIDE FOUR (4) 250x250 ACOUSTICALLY LINED TRANSFER DUCTWORK AS SHOWN.
- EXISTING RECTANGULAR RETURN AIR DUCTWORK TO REMAIN. RETURN AIR DUCTWORK TO BE ACOUSTICALLY LINED AS PER SPEC.
- NOT USED.
- NOT USED.
- PROVIDE NEW TOP-MOUNT SINK C/W FAUCET, DRAIN, AND ALL OTHER ACCESSORIES AS SHOWN. CONNECT TO EXISTING DOMESTIC WATER PIPING AND SANITARY DRAIN IN CEILING SPACE BELOW AND CREATE NEW PIPING PENETRATIONS IN FLOOR SLAB AS REQUIRED. SINK TO BE FRANKE MODEL LBS6808-2 OR APPROVED EQUAL, BOWL SIZE 450x400x200 (18"x16"x8"). 20 GAUGE TYPE 302 STAINLESS STEEL. FAUCET TO BE KOHLER FORTE MODEL K-10433-CP, SINGLE HOLE SINK FAUCET WITH 257 mm (10-1/8") PULL-OUT SPRAY SPOUT, SINGLE LEVER HANDLE, BRUSHED CHROME FINISH OR APPROVED EQUAL. INSULATE DOMESTIC WATER PIPING AS PER SPEC.
- PROVIDE NEW CHILLED WATER SUPPLY AND RETURN PIPING AS SHOWN. CONNECT TO EXISTING PIPING WITH NEW SHUT-OFF VALVES AS SHOWN. INSULATE CHILLED WATER PIPING AS PER SPEC. BALANCE CHILLED WATER TO EACH FAN COIL UNIT ACCORDING TO SCHEDULE.
- PROVIDE NEW CONDENSATE DRAIN PIPING FOR FAN COIL UNITS AS SHOWN. CONNECT TO EXISTING RISERS. INSULATE CONDENSATE DRAIN PIPING AS PER SPEC.
- DDC TEMPERATURE SENSOR IN ENCLOSED SPACES WILL CONTROL FAN COIL UNIT SERVING THE SPACE.
- DDC TEMPERATURE SENSOR IN MEETING ROOM WILL CONTROL FAN COIL UNIT SERVING THE ROOM AND PERIMETER HEATING VALVES.
- TWO (2) DDC TEMPERATURE SENSORS ON THE EAST SIDE OF OPEN OFFICE AREA WILL CONTROL FAN COIL UNITS 19FCU63, 19FCU64, 19FCU65 AND PERIMETER HEATING VALVES SERVING THE EAST SIDE BY AVERAGING THE TWO READINGS.
- FOUR (4) DDC TEMPERATURE SENSORS ON THE WEST SIDE OF OPEN OFFICE AREA WILL CONTROL FAN COIL UNITS 19FCU55, 19FCU56, 19FCU57, 19FCU58, 19FCU59, 19FCU60, 19FCU61, AND PERIMETER HEATING VALVES SERVING THE WEST SIDE BY AVERAGE THE FOUR READINGS.
- PROVIDE NEW SPACE TEMPERATURE AND HUMIDITY SENSORS AS SHOWN.
- ALL DDC TEMPERATURE AND HUMIDITY SENSORS ARE PROVIDED BY DIV. 25.

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No.	Date	Revision	By:
2	30-05-2022	ISSUED FOR TENDER	PJS
1	21-07-2021	ISSUED FOR TRANSLATION	ZM
0	16-07-2021	ISSUED FOR REVIEW	ZM

Verify all dimensions and site conditions and be responsible for same.  
Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project: M19, Room 340, Engineering Construction Office Accommodation Pilot Project

MONTREAL ROAD CAMPUS

MECHANICAL: NEW CONSTRUCTION PLANS

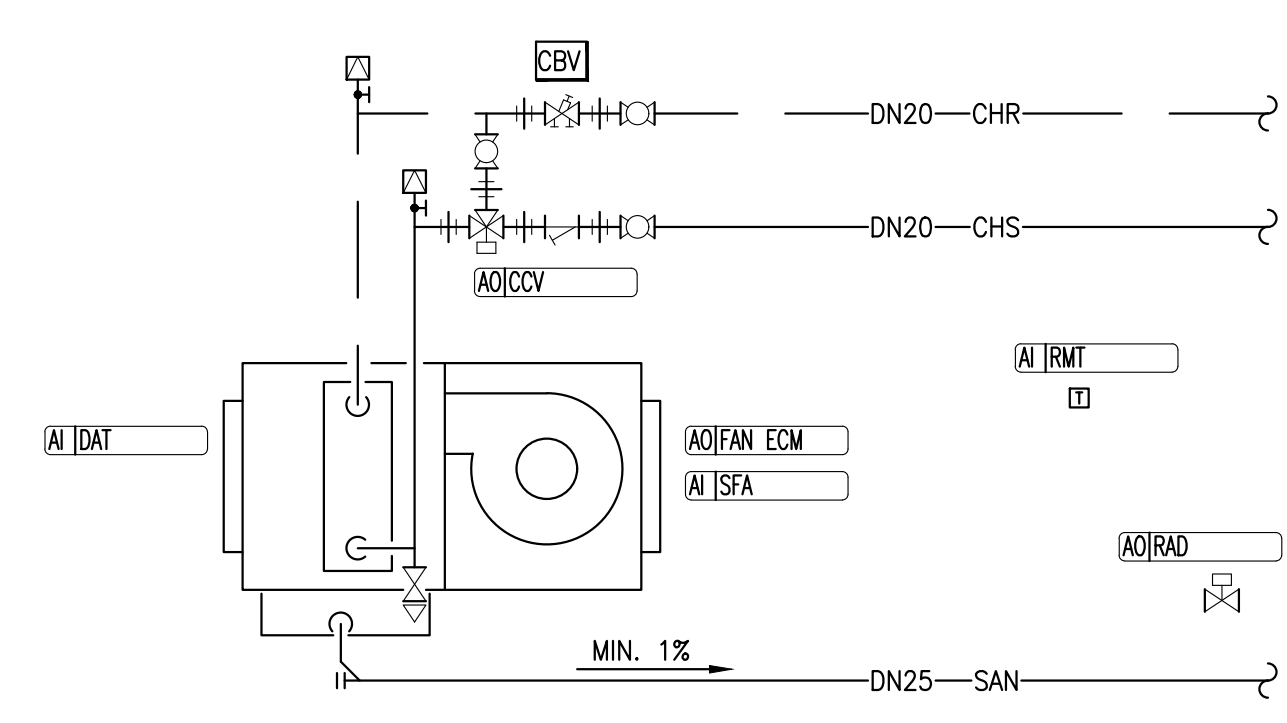
designed	conçu	date	MAY 2022	date
drawn	dessiné	scale	AS NOTED	échelle
checked	vérifié	sheet	9 of/de 14	feuille
approved	approuvé	W.O.no.		D.T.no.
dwg.no.	dessin no.			

6009 - M02

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MECHANICAL LEGEND	
	INDICATES NEW
	INDICATES EXISTING TO REMAIN
	INDICATES DEMOLISHED/ REMOVED
	SANITARY DRAIN PIPING
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONTROL LINE
	PIPE UP
	PIPE DOWN
	UNION
	CAP
	BALL VALVE
	2-WAY CONTROL VALVE - DDC
	3-WAY CONTROL VALVE - DDC
	CIRCUIT BALANCING VALVE
	DRAIN VALVE
	STRAINER
	CLEANOUT
	AIR VENT
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	FAN COIL UNIT
	FLEXIBLE CONNECTION
	FLEX DUCT
	ROUND TAKE OFF C/W BALANCING DAMPER
	BALANCING DAMPER
	FIRE DAMPER
	SPACE TEMPERATURE SENSOR (DDC)
	SPACE RELATIVE HUMIDITY SENSOR (DDC)



**1** FAN COIL UNIT DIAGRAM  
 M03 N. T. S.

**GENERAL CONTROL NOTES:**

- ALL DDC WORK SHOULD BE CARRIED OUT BY AINSWORTH CANADA, CONTACT: AARON DOBSON, (613)247-7938, AARON.DOBSON@AINSWORTH.COM
- ALL DDC SENSORS AND CONDUIT IN THE FINISHED SPACE SHALL BE RECESSED IN WALL, **NOT SURFACE MOUNTED**.
- MECHANICAL CONTRACTOR TO INSTALL CONTROL VALVES SUPPLIED BY AINSWORTH.
- MECHANICAL CONTRACTOR TO CARRY COST FOR SETUP AND COMMISSIONING BY EQUIPMENT MANUFACTURER TECHNICIAN TOGETHER WITH AINSWORTH.

**DDC SEQUENCE OF OPERATION:**

- FAN COIL UNITS:
  - HEATING SEASON:
    - ALL FAN COIL UNITS CHILLED WATER VALVES REMAIN CLOSED TO THE COIL. FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE. FAN SHOULD RUN AT 10% SPEED WHEN TURNED ON.
    - CONTROL SYSTEM SHOULD MODULATE THE PERIMETER HEATING VALVES TO MAINTAIN ROOM TEMPERATURE SET POINT.
  - COOLING SEASON:
    - FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE.
    - FANS SHOULD REMAIN AT 10% (USER-ADJUSTABLE) SPEED WHILE SYSTEM MODULATE CHILLED WATER VALVE TO MAINTAIN ROOM TEMPERATURE SET POINT.
    - ONLY WHEN CHILLED WATER IS FULLY OPEN TO COOLING COIL AND ROOM TEMPERATURE IS STILL HIGHER THAN SET POINT FOR MORE THAN 10 MINUTES (USER-ADJUSTABLE), THE SYSTEM SHALL INCREASE THE FAN SPEED TO MAINTAIN ROOM TEMPERATURE SET POINT.
    - WHEN ROOM TEMPERATURE DROPS BELOW SET POINT, SYSTEM SHALL FIRST REDUCE THE FAN SPEED.
  - FAN STATUS:
    - CONTROL SYSTEM SHOULD MONITOR FAN STATUS USING CURRENT SENSOR. SEND AN ALARM WHEN FAN MALFUNCTIONS.
- EXHAUST FAN: 19XAF16
  - EXHAUST FAN SHALL START AND STOP ACCORDING TO USER-ADJUSTABLE SCHEDULE. DDC SYSTEM WILL TURN THE FAN ON/OFF VIA 0-10 V SIGNAL TO ECM MOTOR CONTROLLER. FAN RUNNING RPM TO BE DETERMINED BY BALANCING.
  - CONTROL SYSTEM SHOULD MONITOR FAN STATUS USING CURRENT SENSOR. SEND AN ALARM WHEN FAN MALFUNCTIONS.

**FAN COIL UNITS**

MANUFACTURER	TRANE
EQUIPMENT I. D.	19FCU61, 19FCU64
MODEL	FCCB040
AIR FLOW	L/s / CFM 189/400
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-RROWS
CAPACITY SENS.	kW / MBH 2.8/9.68
CAPACITY TOTAL	kW / MBH 3.8/13.05
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 9.8 / 2.6
WATER P. D.	kPa / ft. 30.5 / 10.2
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 167
EQUIPMENT I. D.	19FCU62, 19FCU67
MODEL	FCCB060
AIR FLOW	L/s / CFM 283/600
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-RROWS
CAPACITY SENS.	kW / MBH 4.0/13.68
CAPACITY TOTAL	kW / MBH 5.1/17.56
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 13.2 / 3.5
WATER P. D.	kPa / ft. 14.4 / 4.8
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 229
EQUIPMENT I. D.	19FCU54 TO 19FCU60, 19FCU63, 19FCU65, 19FCU66
MODEL	FCCB080
AIR FLOW	L/s / CFM 377/800
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-RROWS
CAPACITY SENS.	kW / MBH 5.5/18.61
CAPACITY TOTAL	kW / MBH 7.2/24.73
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 18.7 / 4.93
WATER P. D.	kPa / ft. 30.2 / 10.1
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 333
REMARK	HORIZONTAL CONCEALED FAN COIL UNITS C/W RETURN PLENUM WITH BACK DUCT COLLAR INLET, 25mm MERV13 FILTER, HIGH STATIC ECM MOTOR, VIBRATION ISOLATORS, CUSTOMER SUPPLIED TERMINAL INTERFACE (CSTI), AND UNIT MOUNT NON-FUSED DISCONNECT.

**EXHAUST FAN**

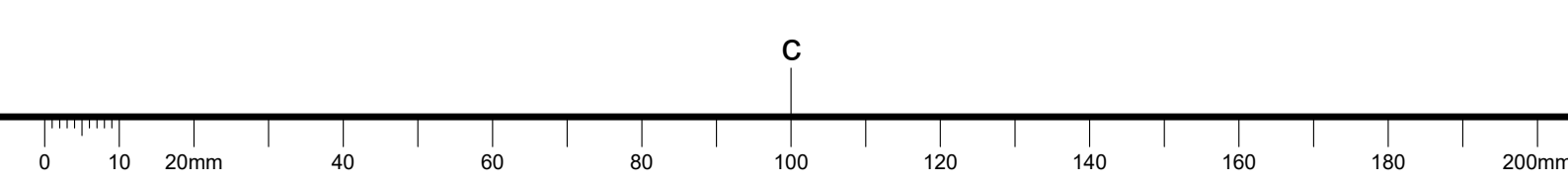
MANUFACTURER	GREENHECK
EQUIPMENT I. D.	19XAF16
MODEL	G-140-VG
AIR FLOW	L/s / CFM 472/1,000
EXT. S. P.	Pa / in.w.c. 93.4/0.375
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
MOTOR SIZE	VG-3/4
POWER	HP 0.75
REMARK	CENTRIFUGAL DOWNBLAST ROOF EXHAUST FAN C/W BACKDRAFT DAMPER, BIRD SCREEN, ECM MOTOR, AND UNIT MOUNT NON-FUSED DISCONNECT.

**CIRCUIT BALANCING VALVE**

MANUFACTURER	IMI HYDRONIC (TA)
REF	CBV
MODEL	STAS
SIZE	DN20
REMARK	FOR ALL FAN COIL UNITS

**DIFFUSERS & GRILLES**

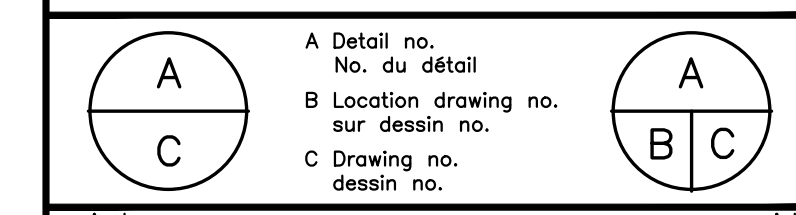
MANUFACTURER	E. H. PRICE
PRODUCT	SQUARE DIFFUSERS
REF	SD
MODEL	#200/600x600/APDMC-BN/3/B12
AIR FLOW	L/s / CFM 94.4/200
REMARK	-
PRODUCT	LINEAR DIFFUSERS
REF	LS
MODEL	SDS50, 2 SLOTS
LENGTH	mm / inch 1219/48
AIR FLOW	L/s / CFM 35.4/75
REF	LR
MODEL	SDRS0, 2 SLOTS
LENGTH	mm / inch 1219/48
REMARK	ALL LINEAR DIFFUSERS C/W TYPE 8 CONCEALED PLASTER FRAME, CONCEALED SCREWS, AND TYPE 2 SDAI-50 PLENUM WITH INTERNAL FIBER FREE FOAM INSULATION. PLENUM INLET SIZE Ø150 mm. SUPPLY DIFFUSERS WITH 2 SLOTS SHOULD BE ADJUSTED TO OPPOSED AIR FLOW. SUPPLY DIFFUSERS WITH 1 SLOT SHOULD BE ADJUSTED TO HORIZONTAL AIR FLOW. RETURN DIFFUSERS SHOULD BE ADJUSTED TO VERTICAL AIR FLOW.
PRODUCT	RETURN GRILLES
REF	RG1
MODEL	600x600/80/CH/B12
REF	RG2
MODEL	600x300/80/CH/B12
REMARK	CHANNEL BORDER FOR T-BAR LAYIN
PRODUCT	EXHAUST GRILLES
REF	EG
MODEL	300x300/80/NF/B12
AIR FLOW	L/s / CFM 37.8/80
REMARK	NARROW FACE BORDER FOR T-BAR LAYIN



No.	Date	Revision	By:
2	30-05-2022	ISSUED FOR TENDER	PJS
1	21-07-2021	ISSUED FOR TRANSLATION	ZM
0	16-07-2021	ISSUED FOR REVIEW	ZM

Date Printed: \_\_\_\_\_ Date imprimée: \_\_\_\_\_

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



project: M19, Room 340, Engineering Construction Office  
 Accommodation Pilot Project

project: MONTREAL ROAD CAMPUS

drawing: MECHANICAL; LEGENDS, SCHEDULES, DIAGRAM, AND DETAILS

designed	conçu	date	date
Z. M. / P.J.S.		MAY 2022	
drawn	dessiné	scale	échelle
Z. M. / P.J.S.		AS NOTED	
checked	vérifié	sheet	feuille
Z. F.		10 of/4e 14	
approved	approuvé	W.O.no.	D.T.no.
A. L. S.			
dwg.no.	dessin no.		

# NATIONAL RESEARCH COUNCIL CANADA MONTREAL ROAD CAMPUS

M-19 Room 340, Engineering Construction Office Accommodation  
Pilot Project

## ELECTRICAL WORK



### GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

### DRAWING NOTES

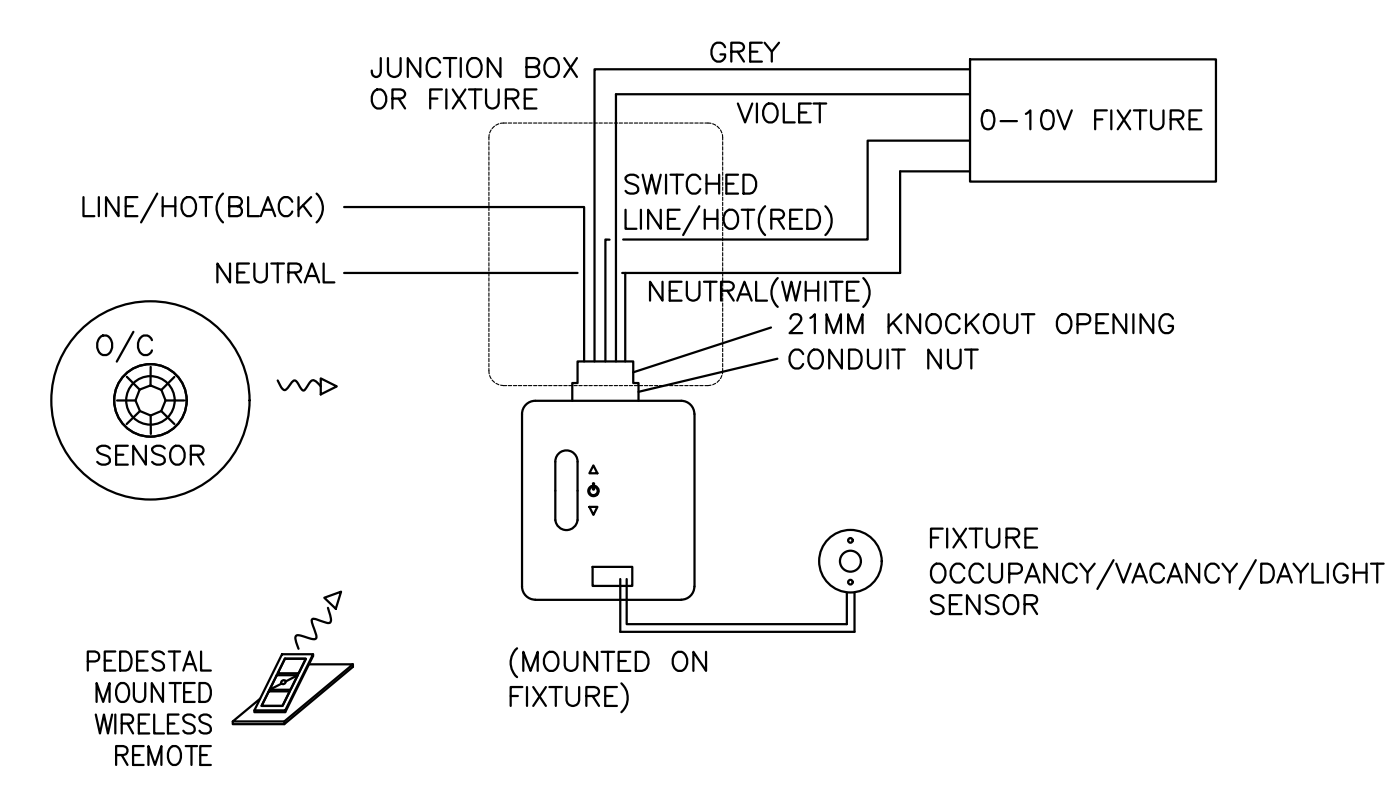
- GENERAL NOTES (APPLIES TO ALL DRAWINGS):
- READ THIS DRAWING IN CONJUNCTION WITH SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
  - CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
  - MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
  - FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. PAINT ALL SURFACE CONDUITS. COLOR SCHEME TO MATCH EXISTING.
  - COORDINATE WORK WITH OTHER DIVISIONS FOR INSTALLATION AND TO AVOID INTERFERENCE.
  - COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.
  - REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
  - REMOVE REDUNDANT CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
  - PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION AND PROVIDE NEW TYPED SCHEDULES.
  - ALL INTERIOR WIRING SHALL BE #12 AWG CONDUCTOR MINIMUM, TYPE R90 XLPE CROSS-LINK POLYETHYLENE STRANDED FOR SIZE NO.8 AND LARGER, TYPE T90 STRANDED FOR SIZE NO.10 AND SMALLER. ALL NEW RACEWAYS SHALL BE THIN WALL ELECTRICAL METALLIC TUBING (EMT) 1/2" MINIMUM UNLESS OTHERWISE INDICATED. CONDUITS TO BE COMPLETE WITH INSULATED TYPE CONNECTORS AND BUSHING.
  - SURFACE CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES. ALL CONDUITS AND JUNCTION BOXES TO BE ANCHORED TO THE BUILDING STRUCTURE.
  - ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS.
  - THE WORD "PROVIDE" MEANS SUPPLY, INSTALL, CONNECT AND TEST.

LUMINAIRE SCHEDULE									
TYPE	LUMINAIRE TYPE	LAMP TYPE	LAMP WATT	LAMP VOLTAGE	LUMEN OUTPUT	COLOR TEMPERATURE	CRI	MODEL NUMBER	NOTE
1	2'X4' RECESSED - NRC PROVIDED	LED	33.9	120	4200	4000K	80	FLUXGRID 2FGG42B840-4-D-UNV-DIM	0-10V DIMMING/EXISTING
2	2'X2' RECESSED	LED	33.4	120	3800	4000K	80	FLUXGRID 2FGG38L840-2-D-UNV-DIM	0-10V DIMMING
3	8' SUSPENDED LINEAR	LED	50	120	3400	4000K	90	LEDALITE EYELINE ELGSL94034QNB120ERNNNW04	0-10V DIMMING
4	4" ROUND RECESSED	LED	20	120	2000	3500K	80	LIGHTOLIER EASYLYTE 4RN-24RDL10835W00D210U	0-10V DIMMING
5	8' SUSPENDED	LED	46	120	6800	3500K	80	PHILIPS LEDALITE 7808LSE00087DEINA224 C/W SCULPTED ENDCAPS	0-10V DIMMING
6	2' SURFACE	LED	17	120	2000	4000K	80	PHILIPS FLUXSTREAM FSS-2-20L-840-UNV-DIM	

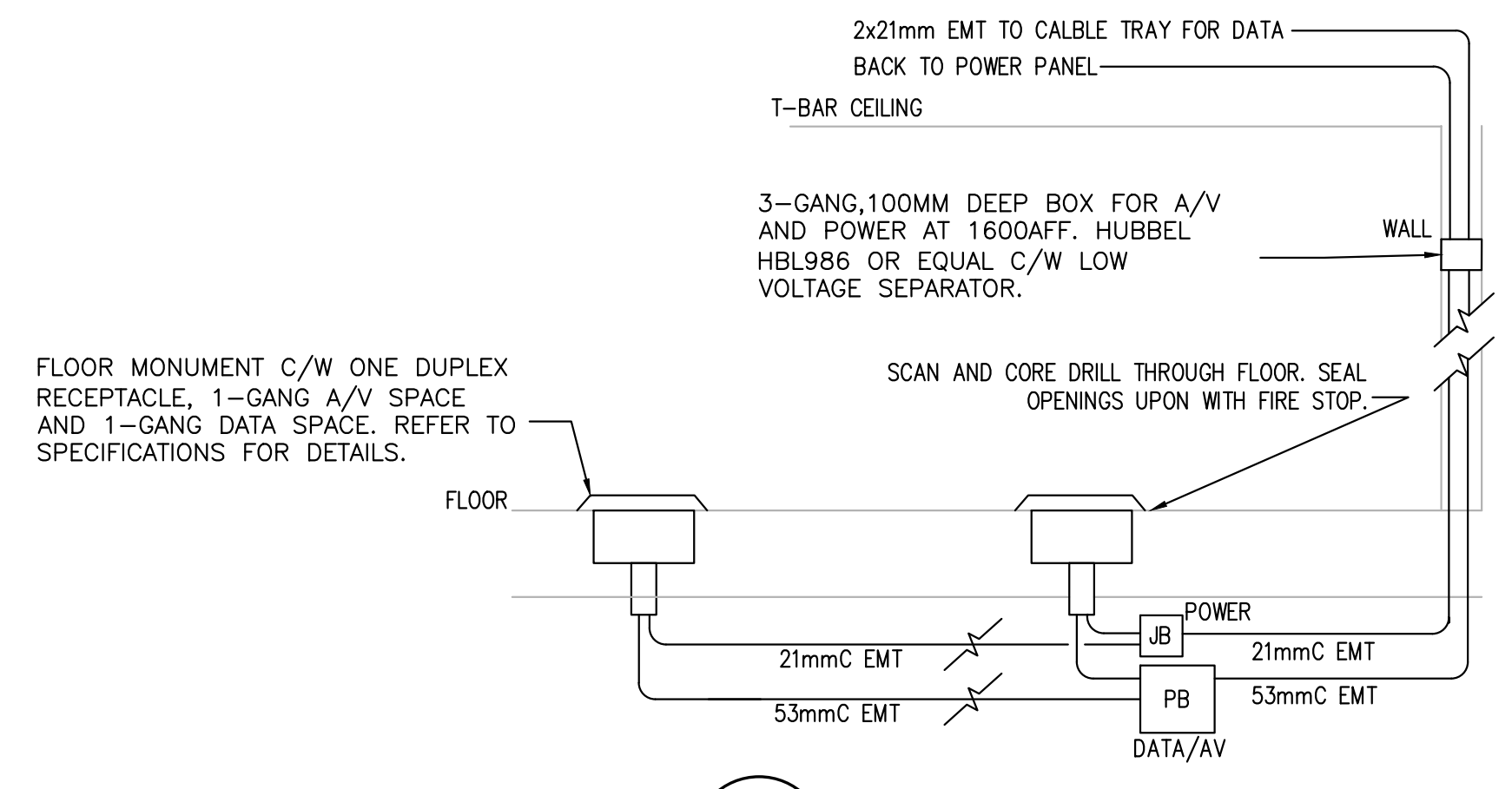
1 LUMINAIRE SCHEDULE  
SCALE 1:100

LIGHTING CONTROL SCHEDULE		
ZONE/ROOM	CIRCUIT	CONTROLS/SCHEDULING
1	L16-1	-AUTO ON BY OCCUPANCY SENSOR, DIM TO 50% AFTER 30 MINUTES VACANCY -AUTO DIM TO 10% AFTER HOURS (6PM)
2	L16-3	-MANUAL ON WITH WORKSTATION SWITCH, ABOVE DESK FIXTURE ONLY -AUTO OFF AFTER 15 MINUTES VACANCY
3	L16-2	-MANUAL ON WITH WORKSTATION SWITCH, ABOVE DESK FIXTURE ONLY -AUTO OFF AFTER 15 MINUTES VACANCY
TOUCH DOWN 345 (SUSPENDED FIXTURE)	L16-1	-MANUAL ON WITH WALL DIMMER SWITCH -AUTO OFF AFTER 15 MINUTES VACANCY
ENCLOSED ROOMS	REFER TO DRAWING	-AUTO ON WITH OCCUPANCY/DIMMING WALL SWITCH -AUTO OFF AFTER 15 MINUTES VACANCY

2 LIGHTING CONTROL SCHEDULE  
SCALE N.T.S.



3 WIRELESS DIMMING LOAD CONTROL MODULE WIRING DIAGRAM  
SCALE 1:100



4 FLOOR MONUMENTS DETAIL  
SCALE N.T.S.

LEGEND	
SYMBOL	DESCRIPTION
	600X1200mm LED LIGHT FIXTURE - TYPE AS SHOWN
	LED LIGHT FIXTURE - TYPE AS SHOWN
	600X600mm LED LIGHT FIXTURE - TYPE AS SHOWN
	LIGHT FIXTURE ON EMERGENCY POWER
	DOWNLIGHT FIXTURE
	WIRED 0-10V OCCUPANCY/DIMMING WALL MOUNTED SWITCH
	WIRELESS DIMMING SWITCH
	CEILING MOUNTED OCCUPANCY/VACANCY/DAYLIGHT SENSOR WITH WIRELESS DIMMING MODULE
	WALL MOUNTED WIRELESS OCCUPANCY/VACANCY SENSOR, WH: HALLWAY TYPE
	WIRELESS PEDESTAL MOUNTED REMOTE (CONTROLS FIXTURE ABOVE DESK)
	CEILING MOUNTED EXIT LIGHT, SINGLE FACE
	WALL MOUNTED EXIT LIGHT, SINGLE OR DOUBLE FACE
	CEILING MOUNTED EXIT LIGHT, DOUBLE FACE
	LIGHTING CONTROL HUB
	EXISTING LIGHTING CONTROLS - TURN OVER TO DEPARTMENTAL REP.
	EXISTING LIGHTING CONTROL SENSOR - TURN OVER TO DEPARTMENTAL REP.
	EXISTING LIGHTING CONTROL SWITCH - TURN OVER TO DEPARTMENTAL REP.
	FIRE ALARM BELL
	FIRE HEAT DETECTOR
	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE C/W USB PORTS
	DEDICATED DUPLEX RECEPTACLE
	RECEPTACLE INSTALLED OVER COUNTER/TABLE
	5-20R, 20A RECEPTACLE
	HARDWIRE CONNECTION
	FURNITURE POLE C/W JUNCTION BOX AT TOP OF POLE BY OTHER MAKE FINAL FURNITURE CONNECTION AT THIS BOX & CONNECT TO CEILING JUNCTION BOX
	SURFACE MOUNTED ELECTRICAL PANEL
	RECESSED MOUNTED ELECTRICAL PANEL
	DISCONNECT SWITCH
	MANUAL MOTOR STARTER
	COMBINATION MOTOR STARTER
	SINGLE PHASE MOTOR
	TELECOM OUTLET BOX C/W 27mm EMT TO CABLE TRAY
	A.V. BACK BOX
	COMBINATION POWER/TELECOM/A/V FLOOR MONUMENT
	WORKSTATION ON EMERGENCY POWER
	DARK SOLID LINE DENOTES NEW OR RELOCATED
	LIGHT SOLID LINE DENOTES EXISTING TO REMAIN
	DASHED LINE DENOTES DEMOLITION WORK

1	30 05 2022	ISSUED FOR TENDER	FG
No.	Date	Revision	By:
			Por:

Date Printed: 00 MM YYYY Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

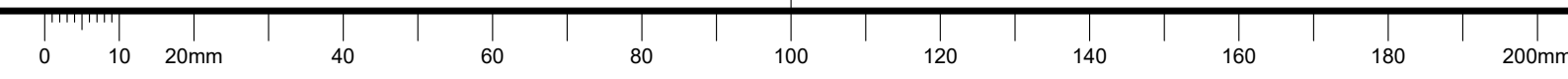
A	A Detail no.	A
B	B Location drawing no.	B
C	C Drawing no.	C

project: M19, Room 340, Engineering Construction Office Accommodation Pilot Project

### MONTREAL ROAD CAMPUS

drawing: ELECTRICAL: LEGENDS, SCHEDULES AND DETAILS

designed	FG	conçu	date	JULY 2021	date
drawn	FG	dessiné	scale	AS NOTED	échelle
checked	CYC	vérifié	sheet	1 of 4	feuille
approved	AS	approuvé	W.O.no.		D.T.no.
dwg.no.	6009 - E01				dessin no.



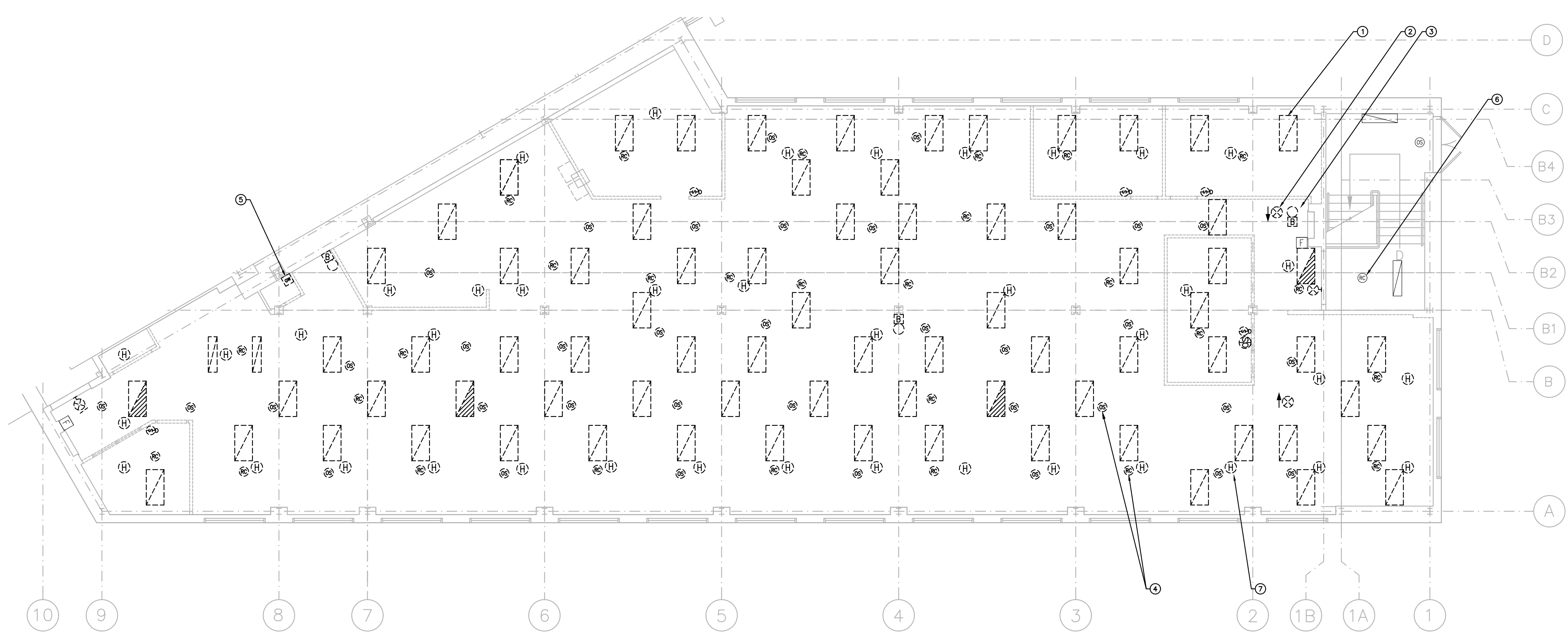
**GENERAL NOTES**

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

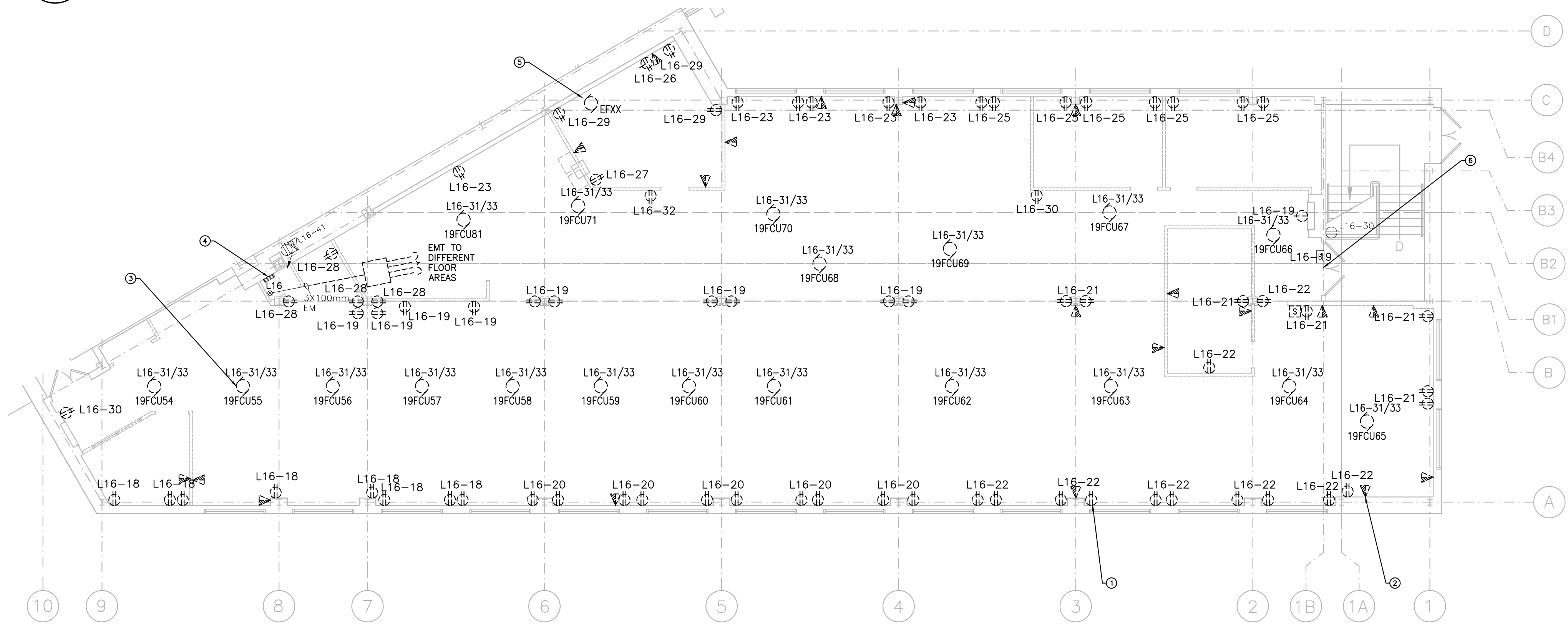
**DRAWING NOTES**

- LIGHTING AND FIRE ALARM DRAWING NOTES:**
- TYPICAL: DISCONNECT AND REMOVE EXISTING LUMINAIRE. REMOVE CONDUIT AND WIRING BACK TO SOURCE AND MAKE SAFE. FIXTURES SHALL BE RE-USED IN NEW CONSTRUCTION. STORE THESE FIXTURES DURING CONSTRUCTION. IF DAMAGED, THE CONTRACTOR SHALL BEAR THE REPLACEMENT COST. RETURN ALL NON RE-USED FIXTURES TO DEPARTMENTAL REPRESENTATIVE.
  - TYPICAL: DISCONNECT AND REMOVE EXIT SIGN. RETAIN EMERGENCY CIRCUIT FOR RE-USE IN NEW CONSTRUCTION.
  - TYPICAL: DISCONNECT AND REMOVE FIRE ALARM BELL. RETAIN CIRCUIT FOR RE-USE IN NEW CONSTRUCTION.
  - TYPICAL: DEMOLISH EXISTING ALEC LIGHTING CONTROL SYSTEM. TURN OVER ALL DEVICES TO DEPARTMENTAL REPRESENTATIVE.
  - TYPICAL: DEMOLISH EXISTING LIGHTING CONTROL GATEWAY. AND TURN OVER TO DEPARTMENTAL REPRESENTATIVE. RETAIN "TED" PANEL METERING.
  - ENSURE THAT LIGHTING CONTROLS IN THE STAIRS J REMAIN OPERATIONAL.
  - TYPICAL: DISCONNECT & REMOVE EXISTING HEAT DETECTOR. PROVIDE FIRE ALARM VERIFICATION REPORT UPON COMPLETION.

- POWER AND SYSTEMS DRAWING NOTES:**
- TYPICAL: DISCONNECT AND REMOVE RECEPTACLE C/W WIRING AND CONDUIT BACK TO SOURCE AND MAKE SAFE. REMOVE ALL REDUNDANT POWER CONDUIT AND WIRING.
  - TYPICAL: DATA CABLING REMOVAL BY OTHERS BEFORE CONSTRUCTION. REMOVE ALL REDUNDANT DATA CONDUITS. REMOVAL OF CONDUITS SHALL NOT BE LIMITED TO THE ONES INDICATED ON THIS DRAWING. ALL REDUNDANT CONDUITS SHALL BE REMOVED.
  - TYPICAL: DISCONNECT FAN COIL UNIT. REMOVE WIRING AND CONDUIT BACK TO SOURCE.
  - PANEL L16 TO REMAIN. TRACE ALL EXISTING TO REMAIN CIRCUITS WITHIN AND OUTSIDE WORK AREA, UPDATE PANEL SCHEDULE AND CIRCUIT LABELS. RENAME CIRCUITS SUCH AS "MARY DEDICATED LINE" TO INDICATE RECEPTACLE LOCATION. REMOVE ALL REDUNDANT WIRING AND CONDUIT WITHIN SCOPE AREA.
  - EXHAUST FAN FED FROM AHU MOTOR STARTER IN MECHANICAL ROOM 272 (REFER TO DETAIL 5/E03 FOR LOCATION). DISCONNECT FAN FROM MOTOR STARTER AND MAKE SAFE. AHU STARTER MUST REMAIN OPERATIONAL. RETAIN WIRING FOR RE-USE WITH NEW EXHAUST FAN. REFER TO E03 FOR REQUIRED NEW WORK.
  - DOOR BELL CHIME TO REMAIN. PROTECT DURING CONSTRUCTION. ALLOW TO REMOVE AND RE-INSTATE AS REQUIRED.



**1 LIGHTING AND FIRE ALARM LAYOUT**  
 SCALE 1:100



**2 POWER AND SYSTEMS LAYOUT**  
 SCALE 1:100

**PANEL L16**

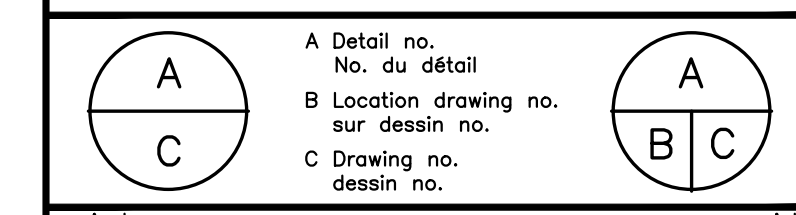
VOLTAGE	120/208V
PHASE	3PH
WIRE	4W
RATING AMPS	225
LOCATION	340 CLOSET
MODEL NO.	XX
FED FROM	LD1

1	20	1	20	1	20	1	20	1	20
2	21	2	21	2	21	2	21	2	21
3	22	3	22	3	22	3	22	3	22
4	23	4	23	4	23	4	23	4	23
5	24	5	24	5	24	5	24	5	24
6	25	6	25	6	25	6	25	6	25
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8	27	8	27	8	27	8	27	8	27
9	28	9	28	9	28	9	28	9	28
10	29	10	29	10	29	10	29	10	29
11	30	11	30	11	30	11	30	11	30
12	31	12	31	12	31	12	31	12	31
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14	33	14	33	14	33	14	33	14	33
15	34	15	34	15	34	15	34	15	34
16	35	16	35	16	35	16	35	16	35
17	36	17	36	17	36	17	36	17	36
18	37	18	37	18	37	18	37	18	37
19	38	19	38	19	38	19	38	19	38
20	39	20	39	20	39	20	39	20	39
21	40	21	40	21	40	21	40	21	40
22	41	22	41	22	41	22	41	22	41
23	42	23	42	23	42	23	42	23	42

**3 PANEL SCHEDULE**  
 SCALE 1:100

1	30	05	2022	ISSUED FOR TRANSLATION	FC
No.	Date	Revision	By:	For:	

Verify all dimensions and site conditions and be responsible for same.  
 Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



project: M19, Room 340, Engineering Construction Office Accommodation Pilot Project

**MONTREAL ROAD CAMPUS**

drawing: ELECTRICAL: DEMOLITION

designed	FG	conçu	date	JULY 2021	date
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drawn	FG	dessiné	scale	AS NOTED	échelle
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checked	CYC	vérifié	sheet	2	of/du	4	feuille
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approved	AS	approuvé	W.O.no.		D.T.no.
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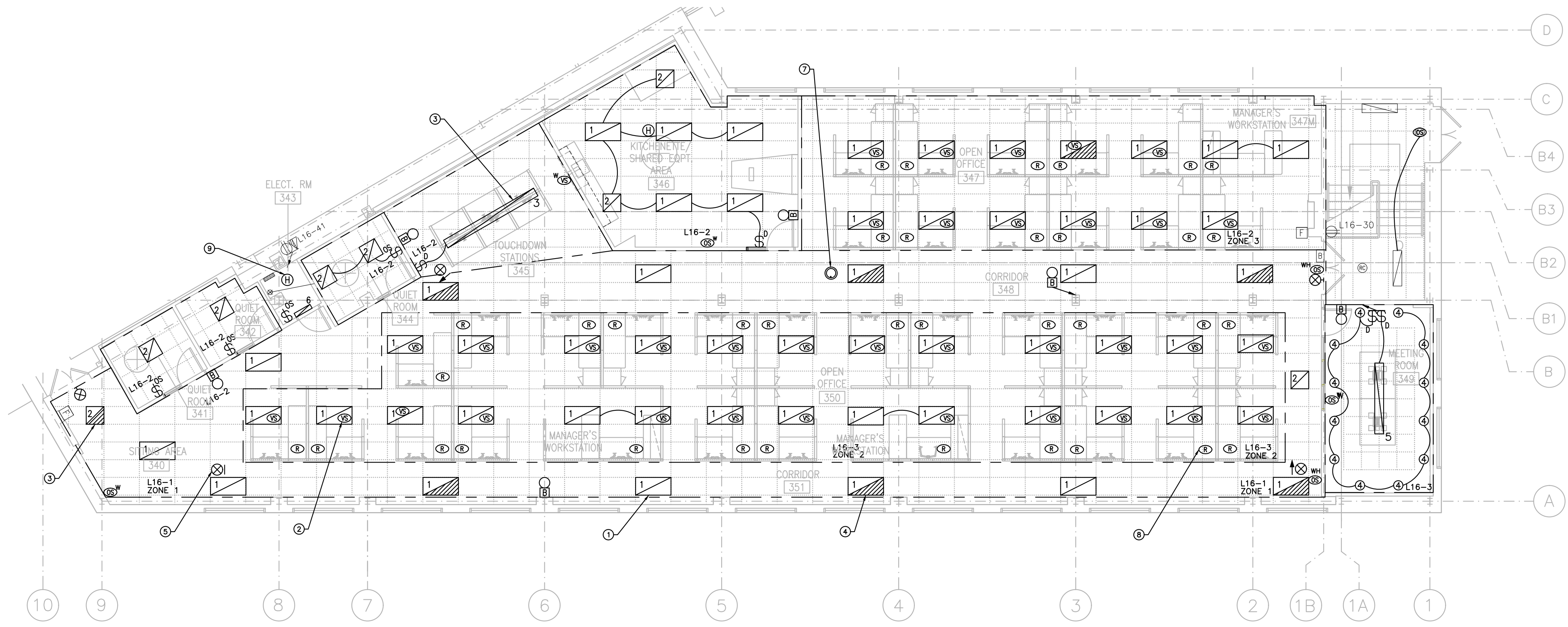
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### GENERAL NOTES

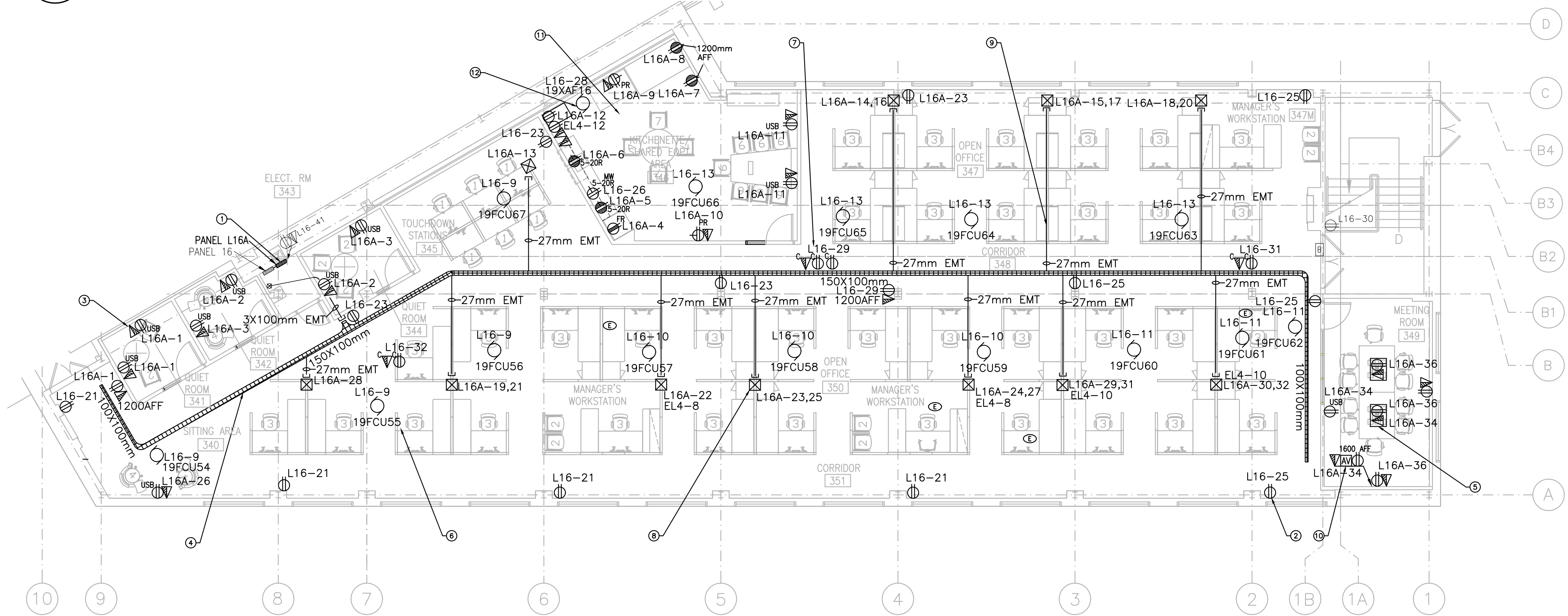
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- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

### DRAWING NOTES

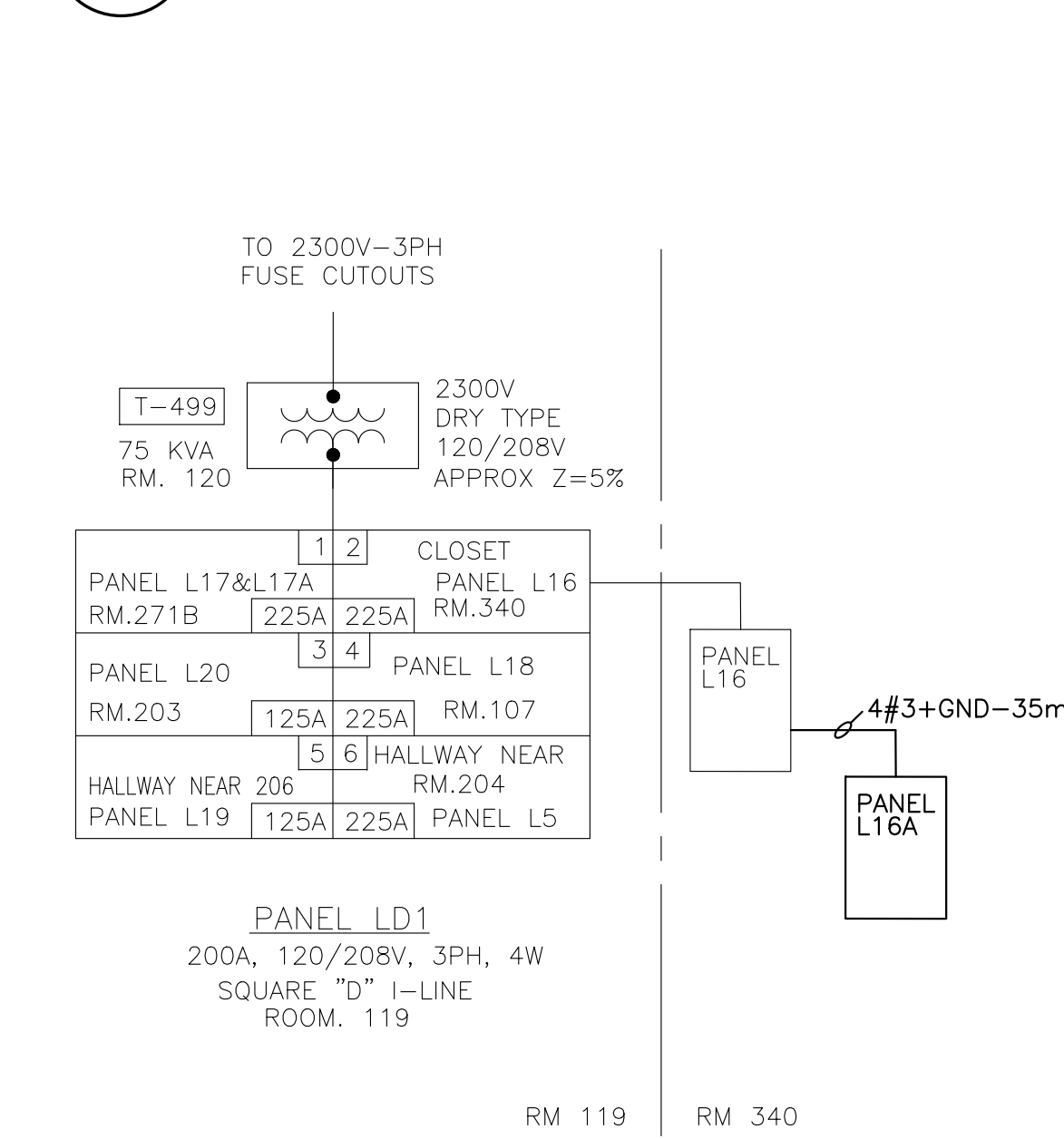
- LIGHTING AND FIRE ALARM DRAWING NOTES:**
- TYPICAL: INSTALL TYPE 1 LUMINAIRES RETAINED FROM DEMOLITION WORK.
  - TYPICAL: PROVIDE NEW WIRELESS DIMMING MODULE C/W OCCUPANCY/VACANCY/DAYLIGHT SENSOR. REFER TO DETAIL 3/E01 FOR WIRING DIAGRAM. REFER TO SPECIFICATIONS FOR DETAILS.
  - TYPICAL: PROVIDE NEW LUMINAIRE, TYPE AS SHOWN. REFER TO LUMINAIRE SCHEDULE ON E01 FOR DETAILS.
  - TYPICAL: CONNECT LUMINAIRE TO UN-SWITCHED EMERGENCY CIRCUIT RETAINED FROM DEMOLITION. EMERGENCY LUMINAIRES SHALL HAVE AN EMERGENCY TYPE WIRELESS DIMMING MODULE. THEY SHALL GO TO 100% BRIGHTNESS UPON NORMAL POWER LOSS. REFER TO SPECIFICATIONS FOR DETAILS.
  - TYPICAL: PROVIDE NEW PHOTOLUMINESCENT PICTOGRAM EXIT SIGN. REFER TO SPECIFICATIONS FOR DETAILS.
  - TYPICAL: PROVIDE NEW FIRE ALARM BELL AND CONNECT TO EXISTING FIRE ALARM LOOP.
  - PROVIDE NEW WIRELESS LIGHTING CONTROL HUB. REFER TO SPECIFICATIONS FOR DETAILS.
  - TYPICAL: PROVIDE ONE PEDESTAL MOUNTED WIRELESS DIMMING SWITCH AT EACH WORKSTATION AND PROGRAM TO CONTROL FIXTURE ABOVE DESK.
  - TYPICAL: PROVIDE NEW HEAT DETECTOR. CONNECT TO EXISTING LOCAL FIRE ALARM DETECTION LOOP.
- POWER AND SYSTEMS DRAWING NOTES:**
- PROVIDE NEW SQUARE D 120/208V, 3PH, 4W, 225A, 42CCT, COPPER-BUS PANEL C/W ALL BREAKERS SHOWN. PROVIDE NEW 3-POLES 80A BREAKER IN PANEL L16 AND MAKE CONNECTION. REFER TO DETAILS 3/E03 AND 4/E03.
  - TYPICAL: PROVIDE NEW RECEPTACLE, TYPE AS SHOWN, AND CONNECT TO CIRCUIT SHOWN.
  - TYPICAL: PROVIDE DATA/COMMUNICATIONS OUTLET ROUGH-IN. RUN 27mm EMT FROM OUTLET TO CABLE TRAY IN CEILING.
  - TYPICAL: PROVIDE NEW GALVANIZED STEEL BASKET CABLE TRAY FOR COMMUNICATION CABLES IN CEILING SPACE, SIZE AS SHOWN. COORDINATE EXACT LOCATION ON SITE WITH ALL TRADES.
  - TYPICAL: PROVIDE 150mm POKE-THROUGH TYPE FLOOR MONUMENT C/W ONE DUPLEX RECEPTACLE. ONE 1-GANG SPACE FOR A/V AND ONE 1-GANG SPACE FOR DATA. STANDARD OF ACCEPTANCE: HUBBELL 51897WZALU. RUN 5mm EMT FROM FLOOR MONUMENT TO WALL BOX AND CEILING FOR A/V AND DATA CABLING. CONNECT RECEPTACLE TO CIRCUIT SHOWN. REFER TO DETAIL 4/E01.
  - TYPICAL: PROVIDE HARDWIRED CONNECTION TO FAN COIL UNIT. CONNECT TO UNIT DISCONNECT SWITCH & CIRCUIT SHOWN. DISCONNECT SWITCH SUPPLIED WITH UNIT.
  - TYPICAL: PROVIDE CEILING MOUNTED RECEPTACLE FOR LIGHTING CONTROL SYSTEM HUB, WIFI ROUTER AND SOUND MASKING SYSTEM AND CONNECT TO CIRCUIT SHOWN.
  - TYPICAL: TWO CHANNEL FURNITURE POLE PROVIDED BY OTHERS. PROVIDE JUNCTION BOX IN CEILING WITH CIRCUITS SHOWN. MAKE FINAL CONNECTION TO FURNITURE WHIP ONCE FURNITURE IS INSTALLED. COORDINATE WITH GENERAL CONTRACTOR.
  - TYPICAL: PROVIDE 27mm EMT FROM CABLE TRAY TO FURNITURE POLE FOR DATA, C/W PLASTIC BUSHINGS.
  - TYPICAL: GROUP AV, DATA AND POWER INTO A SINGLE 3-GANG BOX ON WALL. REFER TO DETAIL 4/E01 & SPECIFICATIONS FOR DETAILS.
  - REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES IN KITCHENETTE AND SHARED EQUIPMENT ROOM.
  - NEW 3/4 HP EXHAUST FAN 19XAF16 BY MECHANICAL CONTRACTOR (IN REPLACEMENT OF OLD FAN IN SAME LOCATION). PROVIDE NEW MANUAL MOTOR STARTER. SQUARE D CLASS 2510 FGPP (OR EQUAL APPROVED) AND MOUNT NEXT TO EXISTING AHU STARTER IN RM 272. RE-USE EXISTING FEED TO FAN RETAINED FROM DEMOLITION AND CONNECT TO NEW MANUAL STARTER. EXTEND WIRING AS REQUIRED. PROVIDE 120V, 15A CONNECTION TO STARTER/EXHAUST FAN USING CIRCUIT SHOWN. REFER TO E02 NOTE 5 AND 5/E03 FOR FURTHER DETAILS.



**1 LIGHTING AND FIRE ALARM LAYOUT**  
E03 SCALE 1:100



**2 POWER AND SYSTEMS LAYOUT**  
E03 SCALE 1:100



**3 SINGLE LINE DIAGRAM**  
E03 N.T.S.

PANEL L16	
VOLTAGE	120/208V
PHASE	3PH
WIRE	4W
RATING AMPS	225
LOCATION	340 CLOSET
MODEL NO.	XX
FED FROM	LD1

PANEL L16A	
VOLTAGE	120/208V
PHASE	3PH
WIRE	4W
RATING AMPS	225A
LOCATION	340 CLOSET
MODEL NO.	SQUARE D
FED FROM	N00D

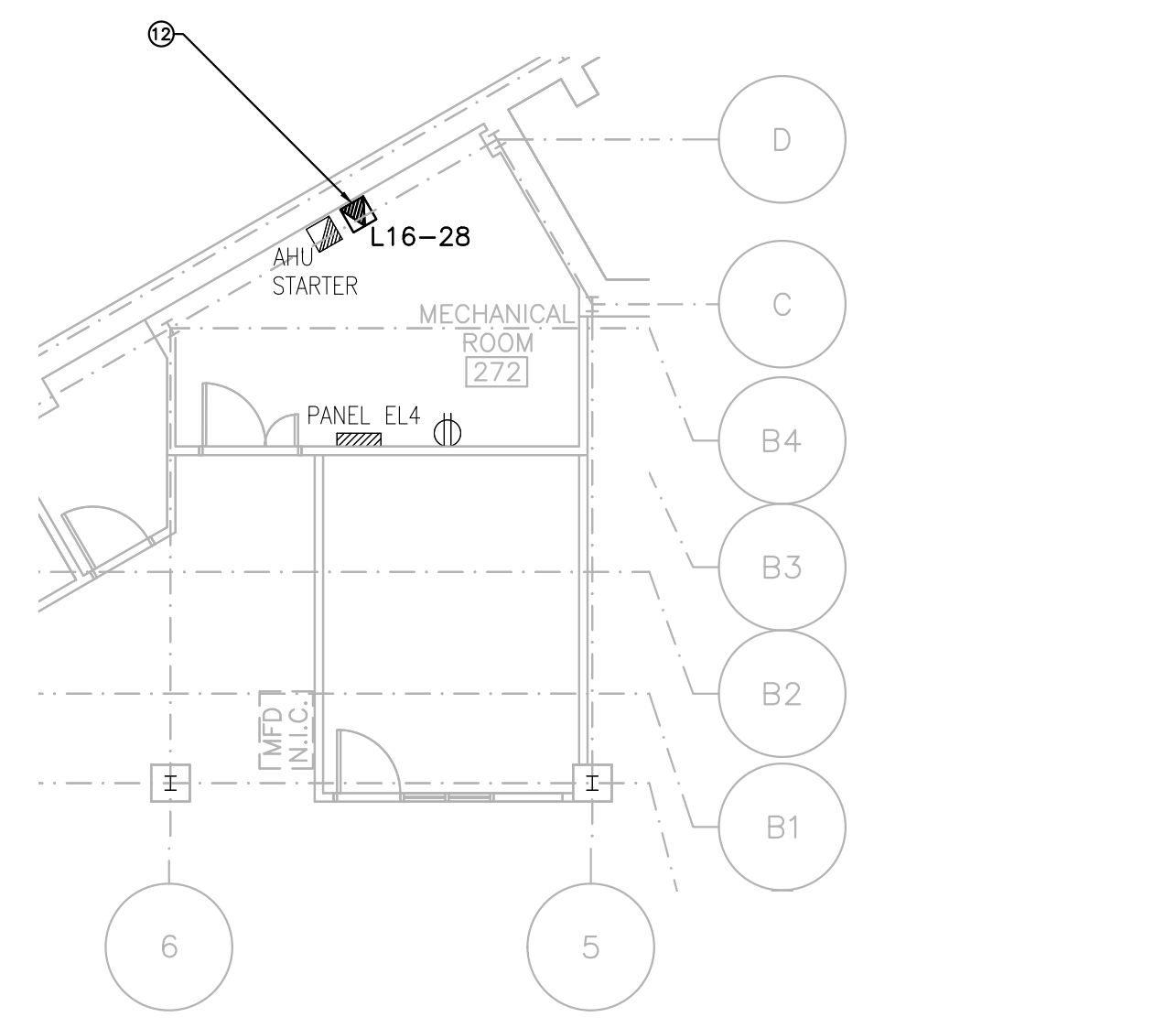
  

PANEL EL4	
VOLTAGE	120/208V
PHASE	3ø
WIRE	4
RATING AMPS	100A
LOCATION	RM 277
MODEL NO.	SQUARE D
FED FROM	T-1254 RM 277

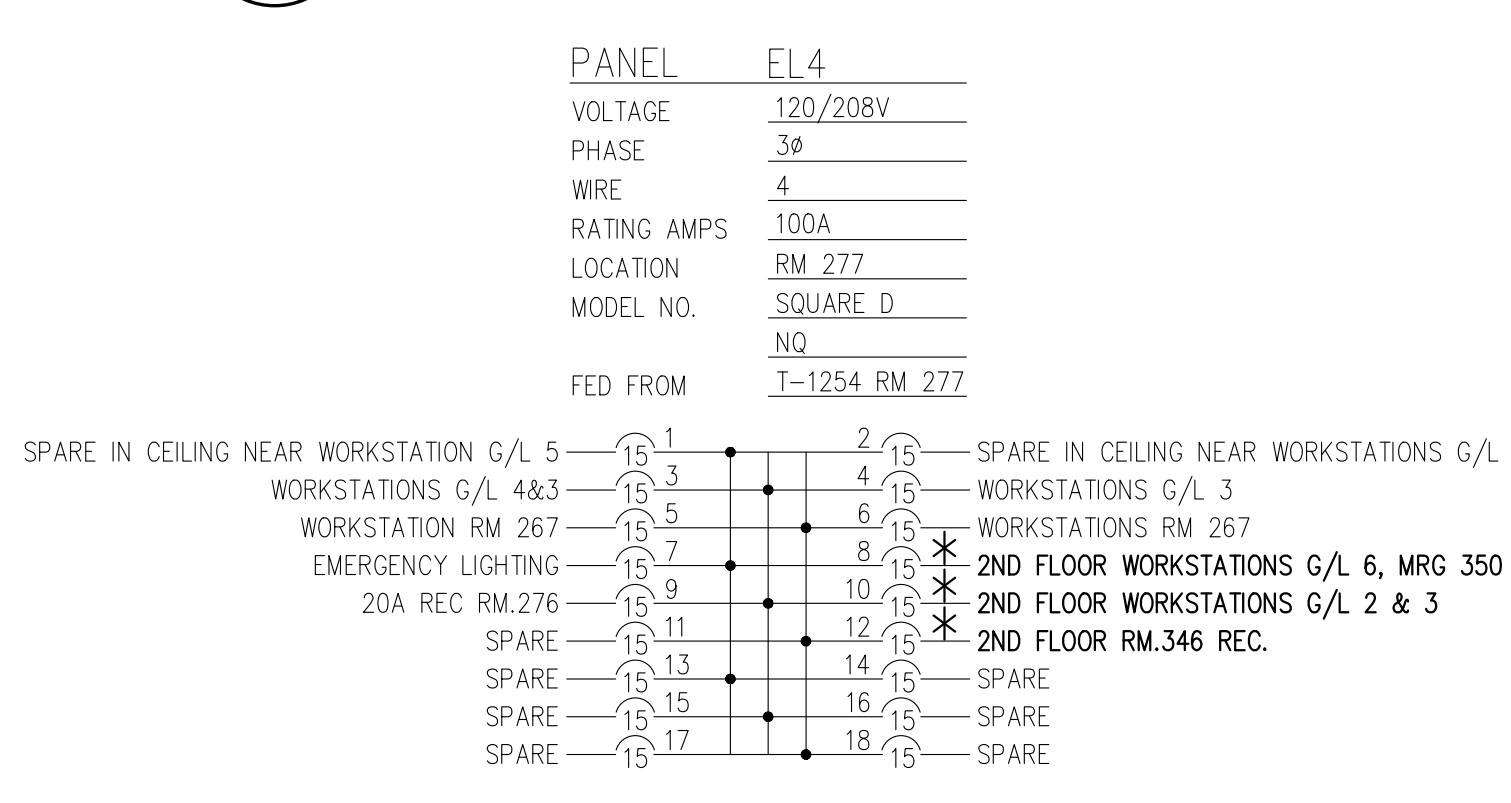
  

Lighting Corridors Zone 1	Lighting Zone 2 & RMS: 349	Lighting Zone 3 & RMS: 341,342,343,344,345,346
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
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40	40	40
41	41	41
42	42	42

**4 PANEL SCHEDULES**  
E03 N.T.S.



**5 LOCATION OF PANEL EL4 - FIRST FLOOR**  
E03 SCALE 1:100



**6 SINGLE LINE DIAGRAM**  
E03 N.T.S.

No.	Date	Revision	By:
1	30 05 2022	ISSUED FOR TRANSLATION	FG

Verify all dimensions and site conditions and be responsible for same.  
Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

A	B	C
A Detail no. No. du détail	B Location drawing no. sur dessin no.	C Drawing no. dessin no.

project: M19, Room 340, Engineering Construction Office Accommodation Pilot Project

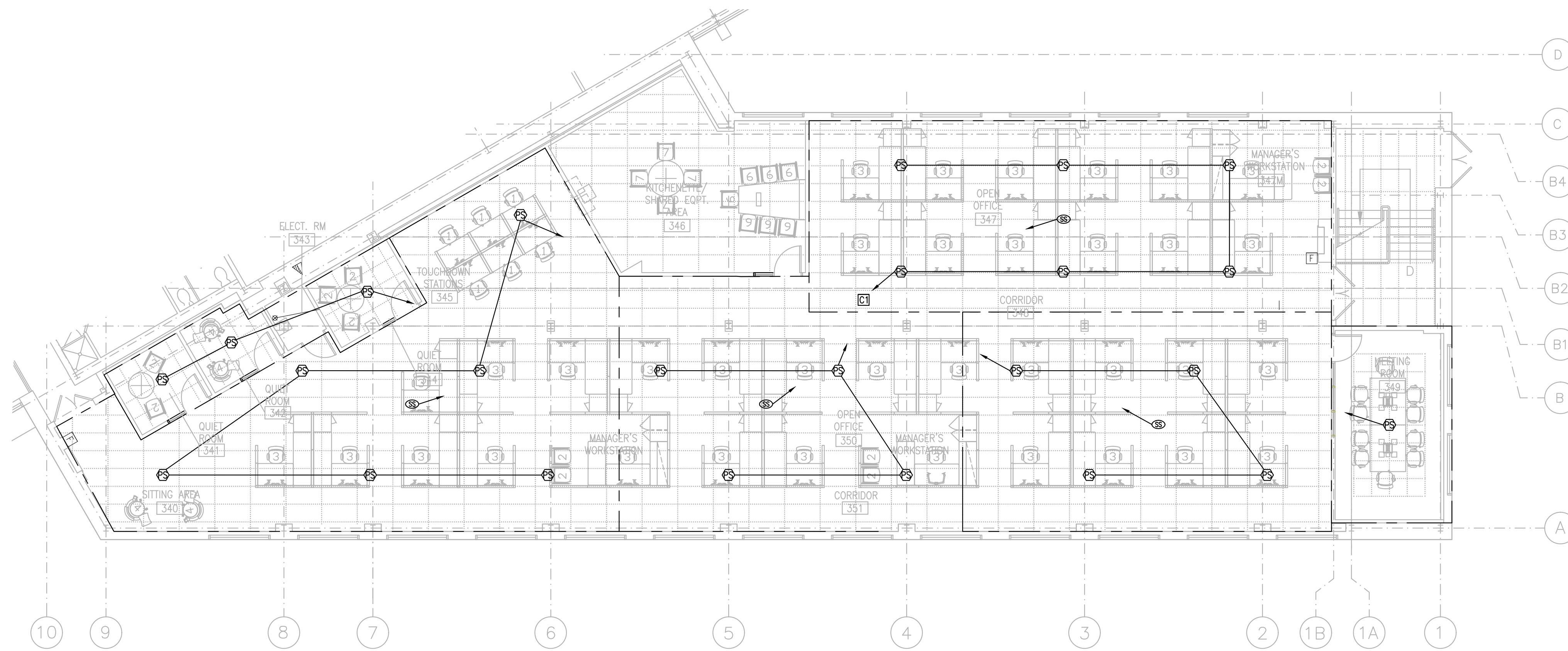
drawing: ELECTRICAL: NEW WORK

designed: FG  
drawn: FG  
checked: CYC  
approved: AB

conçu: FG  
dessiné: FG  
vérifié: CYC  
approuvé: AB

date: JULY 2021  
scale: AS NOTED  
sheet: 3 of 4  
W.O.no.:  
D.T.no.:

6009 - E03



**1** ELECTRICAL: SOUND MASKING SYSTEM  
**E04** SCALE 1:100

**GENERAL NOTES**

A. THE INSTALLATION AND CALIBRATION WILL BE BY THE SOUND MASKING COMPANY AND HAS TO BE DONE ONCE ALL THE ACOUSTIC TILES ARE INSTALLED AND WHEN THERE IS NO ACTIVITY AND NO SOUND SOURCES IN THE BUILDING OTHER THAN NORMAL BACKGROUND NOISE SUCH AS VENTILATION NOISE. COORDINATE WORK WITH SOUND MASKING SUPPLIER.

B. RUN LOW VOLTAGE CABLES ALONG THE SIDE OF COMMUNICATION CABLE TRAY AND CONDUITS. REFER TO E03 FOR CABLE TRAY LAYOUT. TIE CABLES TO CABLE TRAY OR CONDUIT AT MAXIMUM SPACING OF 1000mm. ELIMINATE LOOSE CABLE IN CEILING SPACE AS MUCH AS POSSIBLE

**DRAWING NOTES**

1. PROVIDE COMPLETE SOUND MASKING SYSTEM WHICH INCLUDES BUT IS NOT LIMITED TO:

- 1.1. CONTROLLERS IN CEILING SPACE;
- 1.2. PLENUM SPEAKERS IN OPEN OFFICE AREA;
- 1.3. PLENUM SPEAKERS IN CLOSED OFFICES, MEETING ROOMS AND QUIET ROOMS;
- 1.4. SOUND SENSORS;
- 1.5. WIRING AND ALL FINAL CONNECTIONS;
- 1.6. CALIBRATION;
- 1.7. PROGRAMMING AND COMMISSIONING;
- 1.8. TRAINING;

ALL DEVICES SHOULD BE FROM THE SAME MANUFACTURER. STANDARD OF ACCEPTANCE: SOFT DB. ML48-BCH+SMS-STR+SMS-SEN.

**SYSTEM COMPONENTS**  
 CONTROLLER (C1)  
 6 ZONES  
 24 SPEAKERS (PS)  
 4 SOUND SENSORS (SS)

LEGEND	
SYMBOL	DESCRIPTION
	SOUND MASKING SYSTEM 8-CHANNEL CONTROLLER
	PLENUM SPEAKER
	SOUND SENSOR

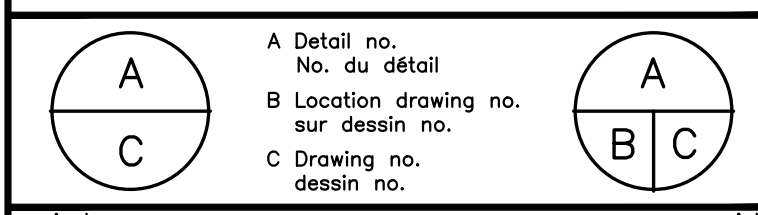
**NRC - CNRC**  
**GENERAL NOTES**

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1	30 05 2022	ISSUED FOR TRANSLATION	FC

Date Printed DD MM YYYY Date imprimée

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 • Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project: M19, Room 340, Engineering Construction Office Accommodation Pilot Project

MONTREAL ROAD CAMPUS  
 drawing: ELECTRICAL: SOUND MASKING SYSTEM

designed	F.G.	conçu	date	JULY 2021	date
drawn	F.G.	dessiné	scale	AS NOTED	échelle
checked	C.Y.C	vérifié	sheet	4 of/4e	feuille
approved	A.S.	approuvé	W.O.no.		D.T.no.

dwg.no. 6009 - E04 dessin no.

