



M-24 ROOM 111 LAB RENOVATIONS

CONSTRUCTION RESEARCH CENTRE (CRC)

1200 MONTREAL ROAD, MONTREAL ROAD CAMPUS

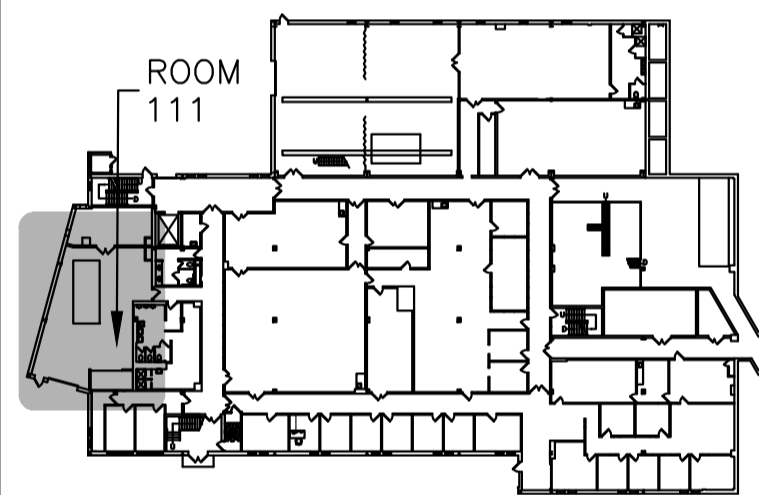


1 M-24 CRC AERIAL PHOTO
SCALE = N.T.S.

DRAWING SHEET LIST:

ARCHITECTURAL	6218-A00	- COVER SHEET - GENERAL DRAWING LIST - PROJECT INFO - KEY PLAN
	6218-A01	- DEMOLITION: FLOOR PLAN AND REFLECTED CEILING PLAN, REFERENCE PHOTOS
	6218-A02	- NEW CONSTRUCTION: FLOOR PLAN AND REFLECTED CEILING PLAN, DOOR AND WALL TYPES
	6218-A03	- PARTIAL ROOM SECTIONS - PLANS AND SECTION DETAILS
MECHANICAL	6218-M01	- DEMOLITION WORK, DRAWING LIST AND DESCRIPTION OF WORK
	6218-M02	- NEW WORK, SCHEDULES AND DESCRIPTION OF WORK
	6218-M03	- DETAILS, LEGENDS AND CONTROLS SEQUENCE
ELECTRICAL	6218-E01	- ELECTRICAL WORK
STRUCTURAL	6218-S01	- PART GROUND FLOOR PLAN AND DETAILS
SPECIFICATIONS:	SEE SEPARATE BINDER MANUAL	

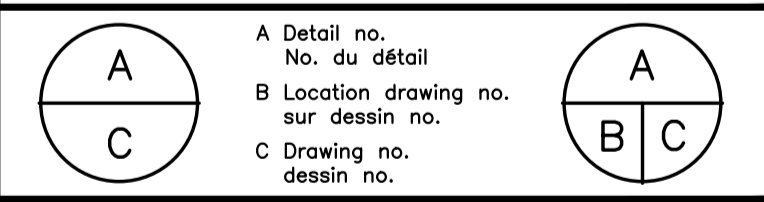
KEY PLAN PLAN CLÉ



No.	Date	Revision	By:
4	03 07 2024	ISSUED FOR TENDER	AJS
3	01 2024	ISSUED FOR TRANSLATION	AJS
2	10 20 2023	ISSUED FOR 99% CLIENT REVIEW	AJS
1	09 27 2023	ISSUED FOR 75% CLIENT REVIEW	AJS

Date Printed DD 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



project BUILDING M-24 ROOM 111 LAB RENOVATIONS PHASE 2 BASE BUILD FIT-UP

MONTREAL ROAD CAMPUS

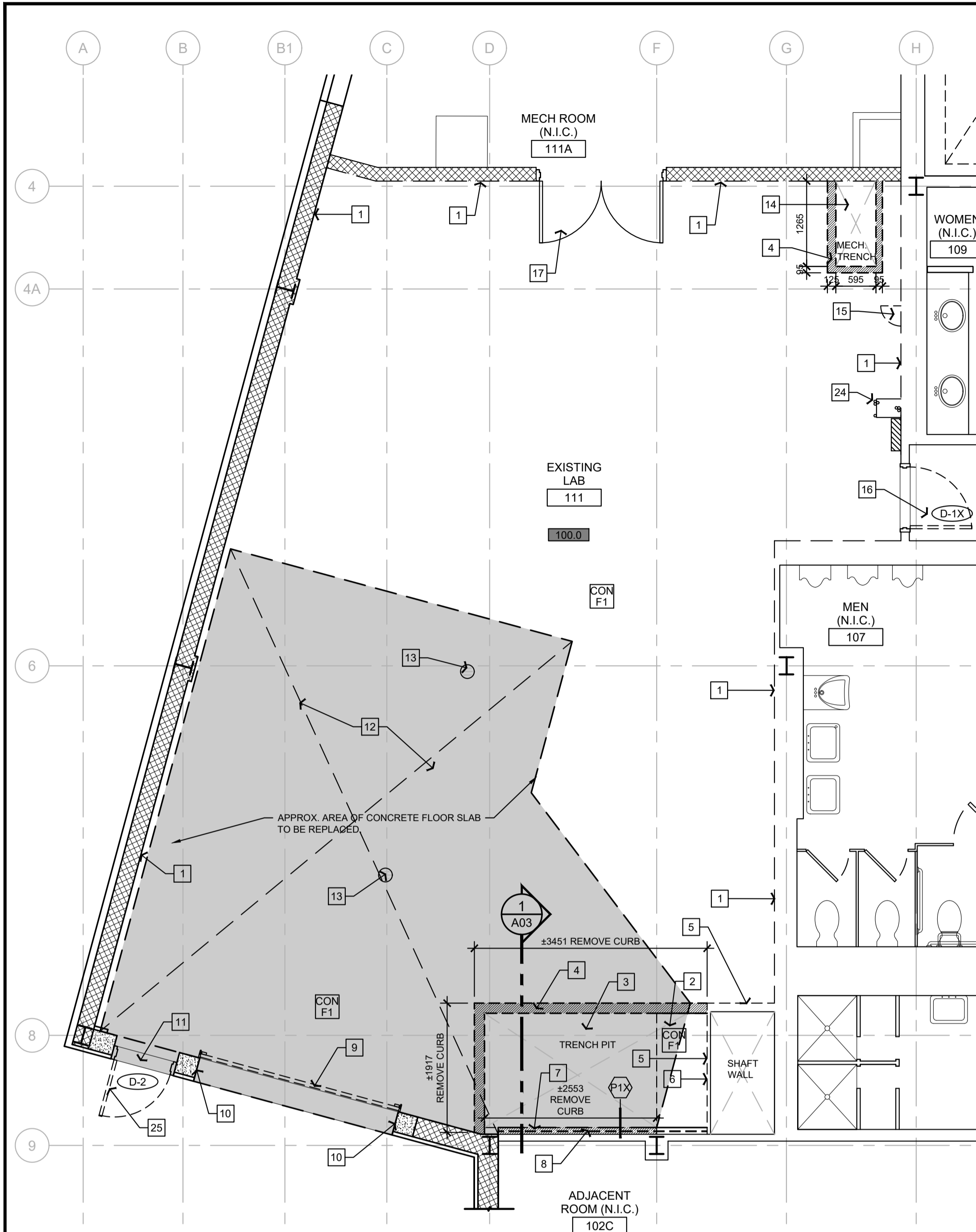
drawing GENERAL DRAWING LIST, PROJECT INFO, KEY PLAN AND PHOTOS

designed	A.J.S.	conçu	AUGUST 2023	date
drawn	A.J.S.	dessiné	AS SHOWN	échelle
checked	F.G.	vérifié	sheet of/de	feuille
approved	F.G.	approuvé	W.O.no.	D.T.no.

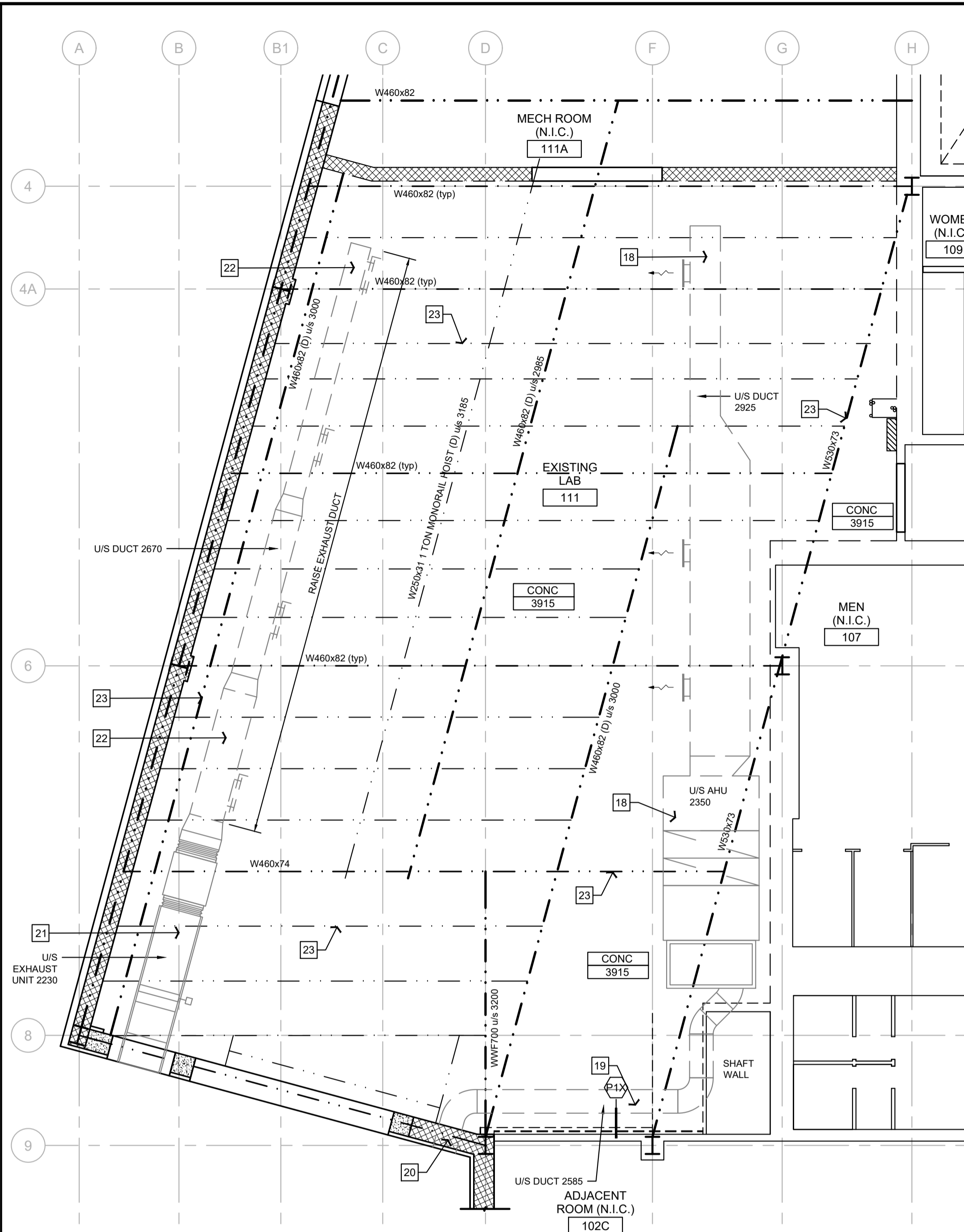
dwg.no. 6218-A00 dessin no. fichier CDAO:

ABBREVIATION LEGEND:

AFF.	ABOVE FINISHED FLOOR	EX.	EXPANSION	O.P.	OPPOSITE
AL.	ALUMINUM	EXT.	EXTERIOR	POL.	POLYETHYLENE
A/V	AIR/VAPOUR BARRIER	E.W.	EYE WASH	P.T.	PRESSURE TREATED
APPROX.	APPROXIMATELY	FIN.	FINISH	REINF.	REINFORCING
CEIL.	CEILING	F.EXT	FIRE EXTINGUISHER	REQ'D	REQUIRED
CONC.	CONCRETE	F.R.	FIRE RATED	R.O.	ROUGH OPENING
CONT.	CONTINUOUS	GA.	GAUZE	RO.	ROUGH OPENING
CONSTR.	CONSTRUCTION	GALV.	GALVANIZED	SH	SHOWER
COMP.	COMPLETELY	G.B.	GYPSPUM BOARD	SHX	SPRINKLER HEAD NEW
C/W	COMPLETE WITH	G.C.	GENERAL CONTRACTOR	SHX	SPRINKLER HEAD REMOVED
DIA.	DIAMETER	HORIZ.	HORIZONTAL	SPEC.	SPECIFICATION
DIAG.	DIAGONAL	I.D.	INSIDE DIAMETER	SO.	SQUARE
DWG	DRAWING	INCL.	INCLUDING	S.S.	STAINLESS STEEL
E.A.P.	EXISTING ACCESS PANEL	INSUL.	INSULATION	STRCTL	STRUCTURAL
E.F.D.	EXISTING FLOOR DRAIN	INT.	INTERIOR	SUSP.	SUSPENDED
E.F.P.	EXISTING FLOOR PLATES	MLD	MOTION LIGHT DETECTOR	T.&G.	TONGUE & GROOVE
EXIST.	EXISTING	MIN	MINIMUM	T.&B.	TOP & BOTTOM
EX.SHWR	EXISTING EMERGENCY SHOWER STATION	MS	MOP SINK	T.O.F.	TOP OF FRAME
		mm	MILLIMETRE	T.O.S.	TOP OF STEEL
		N.I.C.	NOT IN CONTRACT	TYP	TYPICAL
		O.C.	ON CENTER	U/S	UNDERSIDE
E.E.W.	EXISTING EYE WASH STATION	O.D.	OUTSIDE DIAMETER	VERT	VERTICAL
E.E.P.	EXISTING ELECTRICAL PANEL	O.F.	OUTSIDE FRAME		
E.P.	NEW ELECTRICAL PANEL				



1 DEMOLITION - GROUND FLOOR PLAN
SCALE = 1:50



2 DEMOLITION - REFLECTED CEILING PLAN
SCALE = 1:50

SYMBOLS LEGEND

- (DXX) DOOR NUMBER
- (XXX) ROOM NUMBER
- CON F1 FINISHED FLOOR TYPE: EXISTING CONCRETE
- PX WALL TYPE
- INDICATES STRUCTURAL CEILING BEAM
- SHADING ON FLOOR PLAN INDICATES EXTENT OF CONCRETE FLOOR DEMOLITION
- FIN DENOTES TYPE OF CEILING AND UNDERSIDE OF CEILING HEIGHT:
CONC - CONCRETE SLAB CEILING

GENERAL DEMOLITION NOTES

SHEET A01 ONLY

A. CONTRACTOR TO PROVIDE A NON-INVASIVE, NON-DESTRUCTIVE TECHNIQUE TO SCAN EXISTING CONCRETE SLAB PRIOR TO DEMOLITION WORK. ANY DISCREPANCIES OR ABNORMALITIES ARE TO BE REVIEWED WITH STRUCTURAL ENGINEER TO ASCERTAIN THE REQUIRED WORK.

B.

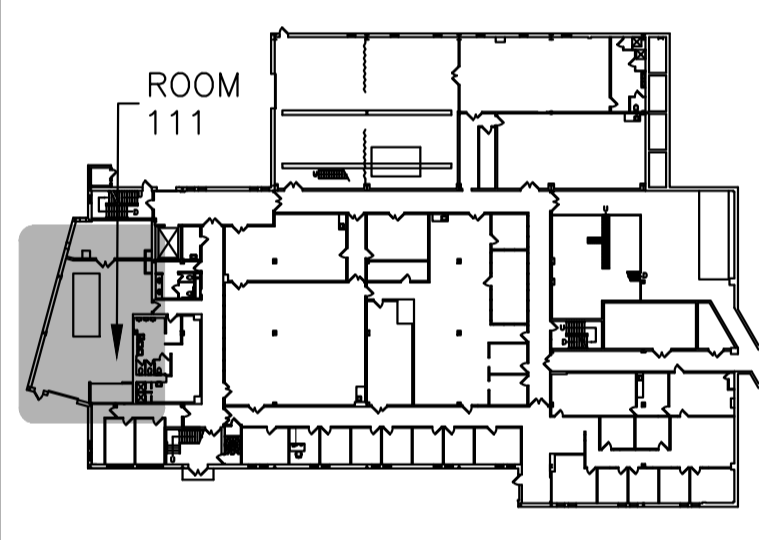
- ### FLOOR AND RCP PLANS DEMOLITION NOTES
- SHEET A01 ONLY
1. REMOVE ALL REDUNDANT ELEMENTS I.E. PLYWOOD BOARDS, CHALKBOARDS INCLUDING ANY ELECTRICAL OR MECHANICAL ITEMS THAT ARE NO LONGER IN USE. REFER TO ELECTRICAL & MECHANICAL. REPAIR AND PATCH SMOOTH ALL EXISTING HOLES AND PENETRATIONS TO GYPSUM BOARD. FROM FLOOR TO CEILING. REMOVE ALL EXISTING ACCESS PANELS AND DISCARD. REPLACE WITH NEW.
 2. EXISTING TRENCH PIT TO BE DECOMMISSIONED. REMOVE AND DISCARD STEEL GRATE FLOOR AND STEEL SUPPORT ACCESSORIES. PIT TO BE FILLED IN AND FINISHED WITH A CONCRETE SLAB FLOOR. ALL PLUMBING TO BE MODIFIED AS REQUIRED. REFER TO STRUCTURAL AND MECHANICAL DWGS.
 3. EXISTING CONCRETE FLOOR WITHIN PIT AREA TO REMAIN.
 4. EXISTING CONCRETE CURB TO BE REMOVED. REPAIR DAMAGED FLOOR.
 5. REMOVE COMPLETE WALLBOARD UP TO 300mm PASSED NEW CEILING. PREPARE FOR NEW STUD AND GYPSUM BOARD INSTALLATION. COORDINATE ANY REMOVAL OF ELEC/MECH. ELEMENTS WITH ELEC/MECH DWGS.
 6. REMOVE AND DISCARD EXISTING ACCESS PANELS AND PREP FOR NEW.
 7. EXISTING CONCRETE CURB ALONG BACK WALL TO REMAIN.
 8. REMOVE EXISTING STUDS, WALLBOARD UP TO 300mm PASSED NEW CEILING. PREPARE FOR NEW STUD AND GYPSUM BOARD INSTALLATION.
 9. REMOVE AND DISCARD EXISTING OVERHEAD DOOR, RAILS, BRACKETS AND CHAIN MOTOR. PREPARE FOR NEW INSTALLATION.
 10. REMOVE DAMAGED ALUMINUM DOOR JAMB FROM TOP OF SLAB AND UP 300mm. PREP SUBSTRATE FOR NEW REPLACEMENT SECTION.
 11. REMOVE AND DISCARD EXTERIOR DOOR THRESHOLD.
 12. EXTENT OF CONCRETE FLOOR SLAB TO BE REPAIRED. REFER TO STRUCTURAL DWGS.
 13. EXISTING FLOOR DRAIN TO BE DISCARDED INCLUDING ALL PIPING TO TRENCH.
 14. EXISTING OPEN FLOOR TRENCH FOR PLUMBING SERVICES TO REMAIN. REMOVE CONCRETE CURBS. REPAIR ANY DAMAGES TO THE FLOOR. PREP FOR STEEL CHECKERED PLATE TRENCH COVER AND FRAME INSTALLATION.
 15. EXISTING PLUMBING LINES TO BE MODIFIED FOR NEW SINK INSTALLATION. REFER TO PLUMBING DWGS FOR FURTHER INFORMATION. REPLACE ACCESS PANEL WITH NEW.
 16. REMOVE AND DISCARD EXISTING DOOR, FRAME, HARDWARE AND WOODS THRESHOLD. REPAIR & PREP AREA TO RECEIVE NEW FLOOR TRANSITION.
 17. PREP ONLY FOR NEW PAINT TO EXISTING DOORS TO ROOM 111A
 18. EXISTING AHU AND ALL ASSOCIATED DUCT TO BE REMOVED AND DISCARDED AS PER TYPE 3 / HIGH-RISK ACTIVITY ASBESTOS REMOVAL. REFER TO WSP PROJECT SPECIFIC DESIGNATED SUBSTANCES AND HAZARDOUS MATERIAL SURVEY (DSHM REPORT)
 19. REMOVE FRESH AIR SUPPLY DUCT TO AHU. REFER TO NOTE 18.
 20. FRESH AIR INTAKE LOUVER TO REMAIN. REMOVE ONLY IF REQUIRED FOR INSTALLATION OF NEW DUCT.
 21. EXISTING EXHAUST UNIT TO REMAIN.
 22. EXISTING EXHAUST DUCT TO BE RAISED. REFER TO MECHANICAL.
 23. EXISTING STRUCTURAL STEEL BEAMS TO REMAIN.
 24. EXISTING REDUNDANT ELECTRICAL CONDUITS TO BE REMOVED. CONFIRM WITH ELECTRICAL.
 25. REMOVE ONLY EXISTING DOOR AND ALUMINUM THRESHOLD FOR CONCRETE SLAB REPAIR. KEEP DOOR FRAME INTACT. DISCARD THRESHOLD. PROTECT EXISTING FRAME AND STORE DOOR FOR REINSTALLATION. CLEAN AREA FREE OF DEBRIS FOR CONCRETE SLAB REPAIRS.



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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3	01 2024	ISSUED FOR TRANSLATION	AJS
2	10 29 2023	ISSUED FOR 99% CLIENT REVIEW	AJS
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Date Printed DD MM YYYY Date imprimée



3 REFERENCE PHOTOS - EXISTING CONDITIONS
SCALE = 1:50

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

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

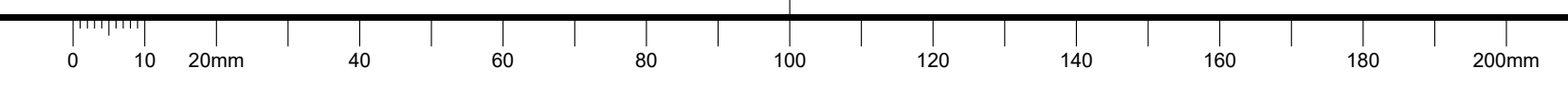
project
BUILDING M-24 ROOM 111 LAB RENOVATIONS
PHASE 2 BASE BUILD FIT-UP

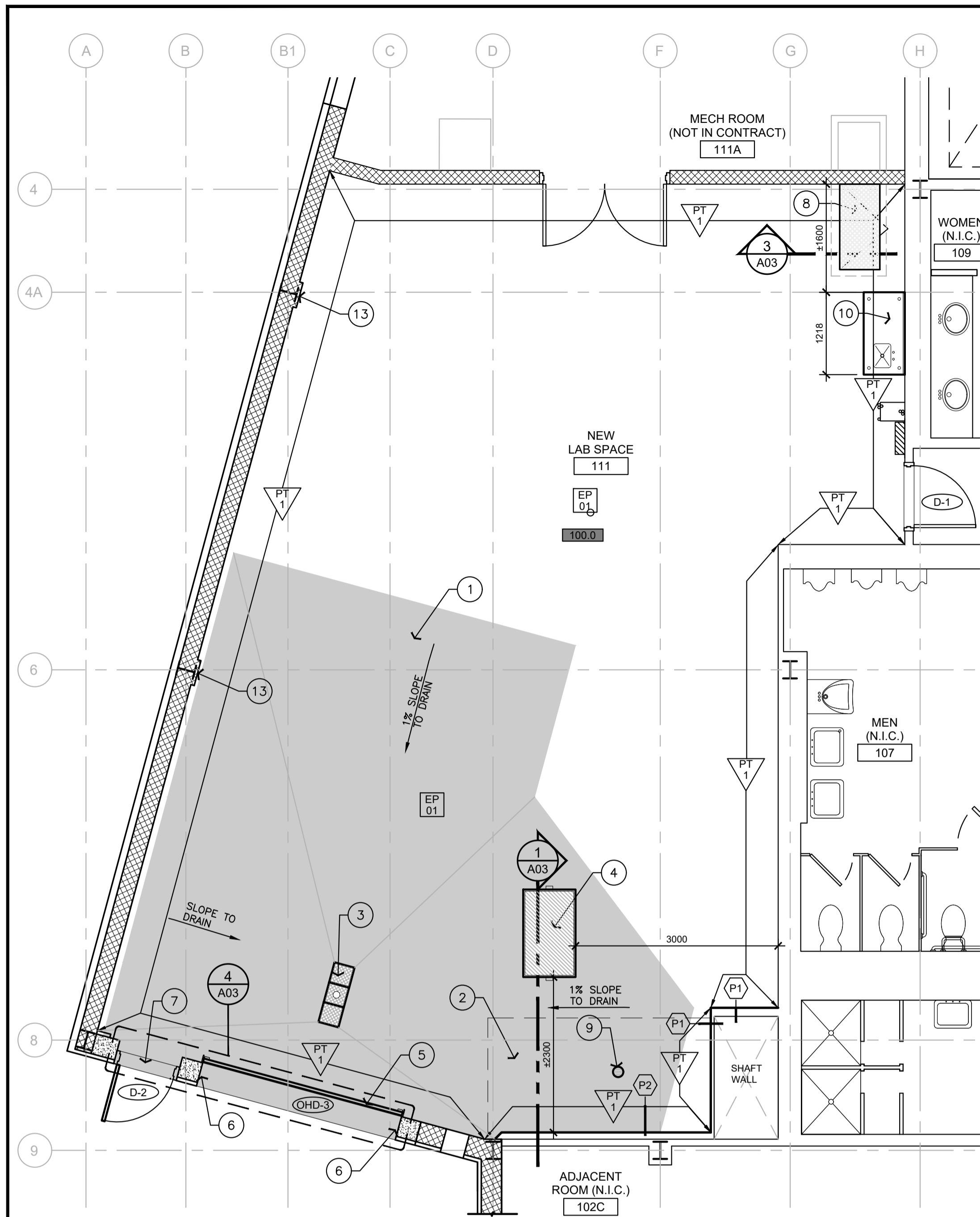
MONTREAL ROAD CAMPUS

drawing
DEMOLITION: FLOOR PLAN AND REFLECTED
CEILING PLANS
REFERENCE PHOTOS

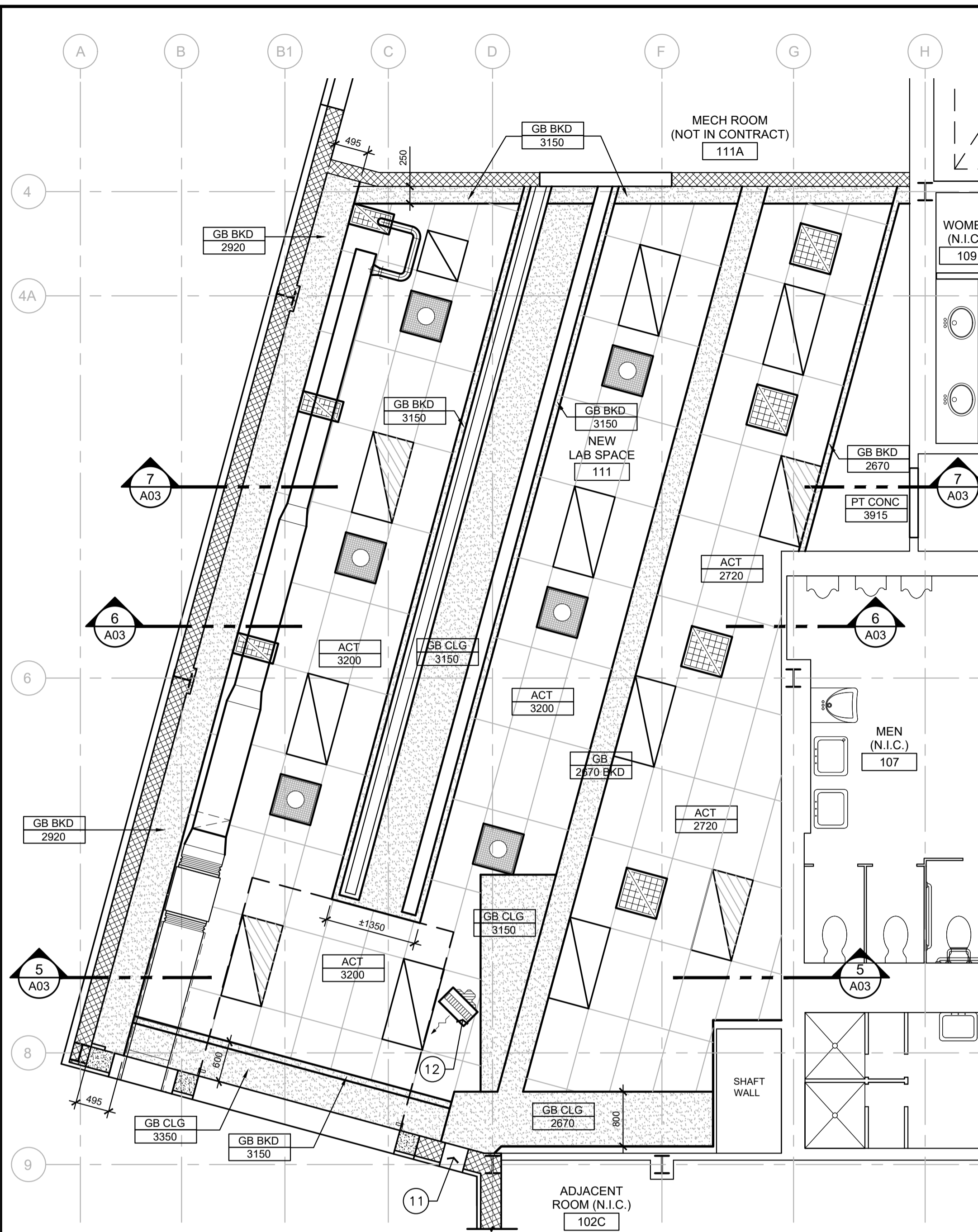
designed	conçu	date	date
A.J.S.		AUGUST 2023	
drawn	dessiné	scale	échelle
A.J.S.		AS SHOWN	
checked	vérifié	sheet	of/de
F.G.			
approved	approuvé	W.O.no.	D.T.no.
F.G.			

dwg.no. 6218-A01 dessin no. fichier CDAO:

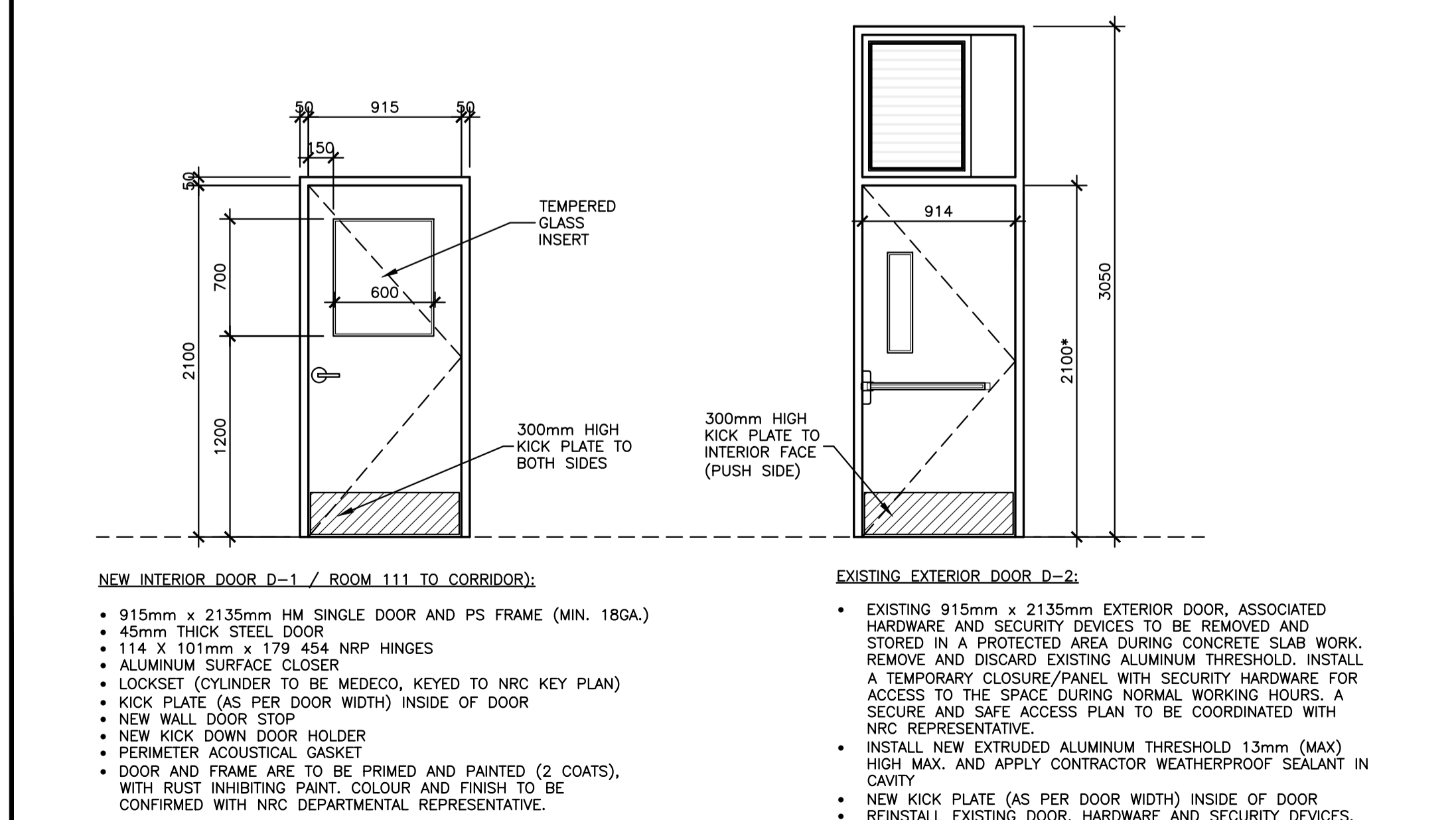




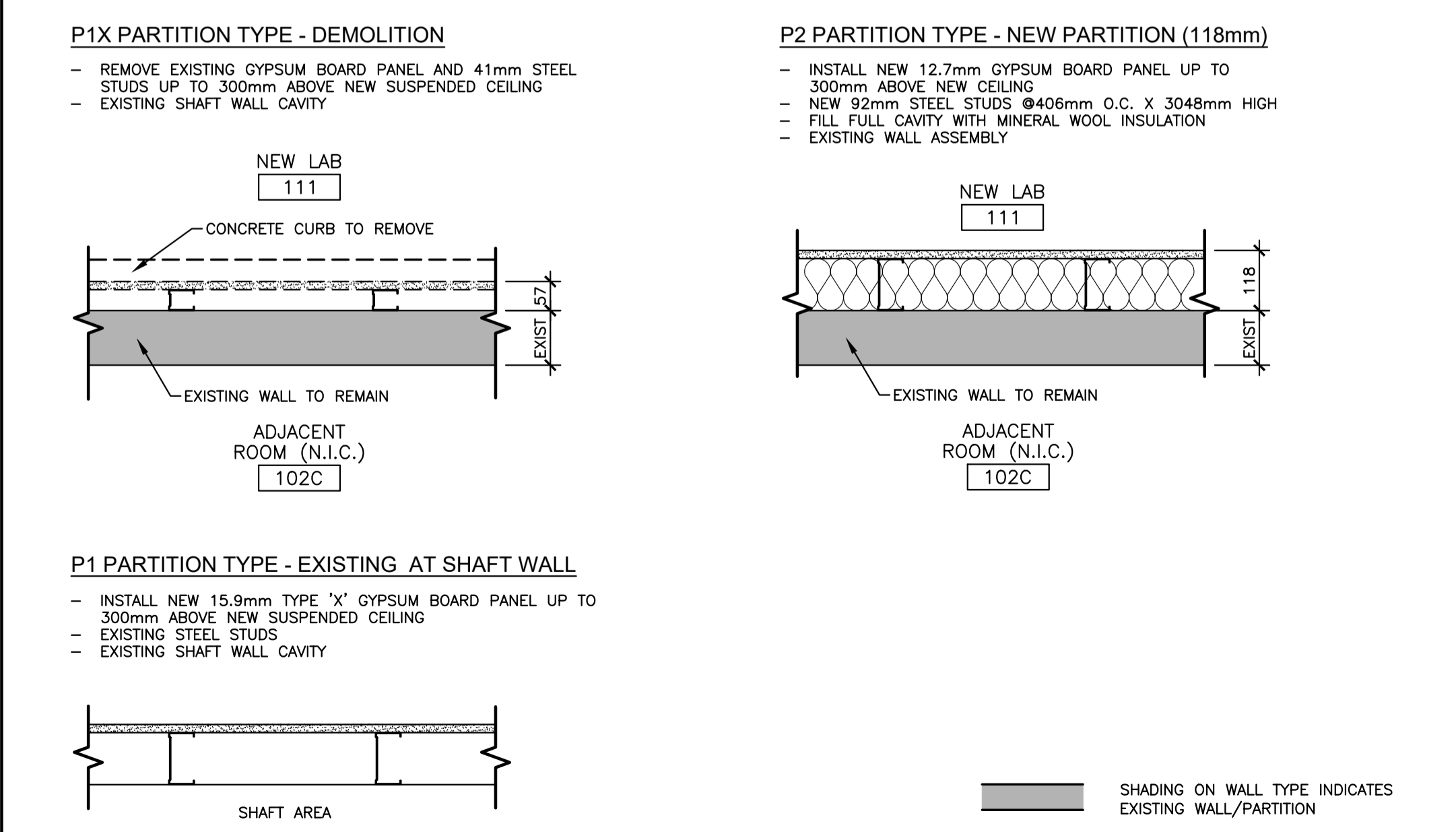
1 NEW CONSTRUCTION - GROUND FLOOR PLAN
SCALE = 1:50



2 NEW CONSTRUCTION - REFLECTED CEILING PLAN
SCALE = 1:50



3 DOOR TYPES
SCALE = 1:30



4 PARTITION TYPES
SCALE = 1:10

GENERAL SYMBOLS LEGEND	
(DXX)	DOOR NUMBER
(XXX)	ROOM NUMBER
EP 01	EPOXY FINISH • PREPARE EXISTING AND NEW CONCRETE SURFACES BY MECHANICAL MEANS TO REMOVE ANY OLD FLOORING MATERIALS AND/OR BOND INHIBITING MATERIALS AND CREATE PROPER ADHESION FOR NEW HIGH PERFORMANCE 2-COAT EPOXY RESIN COATING. REFER TO SPECS.
PX	WALL OR PARTITION TYPE
PT X	PAINT WALL FINISH (REFER TO SPEC): • CONTRACTOR TO ALLOW FOR 2 PAINT COLOURS FOR WALLS: 1 PAINT COLOUR FOR EXPOSED STEEL BEAMS; 1 COLOUR FOR DOOR FRAME AND 1 COLOUR FOR DOOR.
(SHADING)	SHADING ON FLOOR PLAN INDICATES EXTENT OF CONCRETE FLOOR REPAIRS
RCP SYMBOLS LEGEND	
ARCHITECTURAL LEGEND:	
(Symbol)	NEW INTERIOR PARTITIONS. REFER TO CONSTRUCTION PLAN
(Symbol)	A. NEW SUSPENDED CEILING SYSTEM c/w ACOUSTIC CEILING PANEL, 610mm x 1220mm x 19mm, AND 610mm X 610mm X 19mm, COLOR WHITE. REFER TO SPECIFICATION. CEILING HEIGHT: AS PER RCP A.F.F. NOTE: INCLUDE ALL TEES, TRIM, TILES AND HANGARS FOR A COMPLETE INSTALLATION.
(Symbol)	NEW GYPSUM BOARD BULKHEAD OR DROPPED CEILING (13mm) CEILING HEIGHT: REFER TO RCP
(Symbol)	FIN 000 DENOTES TYPE OF CEILING AND UNDERSIDE OF CEILING HEIGHT: ACT - SUSPENDED ACOUSTICAL TILE CEILING GB CLG - DROPPED 13mm GYPSUM BOARD CEILING GB BKD - 13mm GYPSUM BOARD BULKHEAD
*EXPOSED STEEL BEAMS: ALL EXPOSED STEEL BEAMS TO BE SANDED SMOOTH AND READY FOR NEW PAINT FINISH. CONFIRM COLOUR WITH NRC DEPARTMENTAL REPRESENTATIVE.	
ELECTRICAL LEGEND:	
(Symbol)	NEW 610x1220 LIGHT FIXTURE, REFER TO ELECTRICAL.
(Symbol)	NEW 610x610 LIGHT FIXTURE, REFER TO ELECTRICAL.
(Symbol)	NEW 150mm DIA. POT LIGHT FIXTURE, REFER TO ELECTRICAL.
MECHANICAL LEGEND:	
(Symbol)	NEW 610' x 610' SUPPLY AIR DIFFUSER, REFER TO MECHANICAL.
(Symbol)	NEW 610' x 610' RETURN AIR GRILLE, REFER TO MECHANICAL.
(Symbol)	LINEAR SUPPLY AIR/ RETURN AIR GRILLE, REFER TO MECHANICAL. USE CONCEALED FASTENERS ONLY.

NEW CONSTRUCTION NOTES			
SHEET A02 ONLY			
1.	REPAIR ALL CONCRETE SLAB AREA AS PER STRUCTURAL. SLOPE NEW CONCRETE TO DRAIN. BLASTRAC NEW CONCRETE FOR EPOXY FINISH. COORDINATE EXTEND OF CONCRETE WORK WITH STRUCTURAL ENGINEER.		
2.	NEW CONCRETE SLAB AREA OVER TRENCH		
3.	NEW TRENCH DRAIN. REFER TO PLUMBING.		
4.	NEW SEDIMENT INTERCEPTOR INSTALLED PASSED EXISTING TRENCH WALL/FOOTING. CORE NEW OPENINGS FOR DRAIN PIPES. REFER TO PLUMBING.		
5.	NEW INSULATED SECTIONAL DOOR c/w RAILS AND HOIST.		
6.	NEW 300mm HIGH METAL JAMB SECTIONS TO MATCH EXISTING PROFILE AND COLOUR.		
7.	NEW ALUMINUM THRESHOLD. FILL CAVITY WITH DOWSIL CONTRACTOR WEATHERPROOF SEALANT (CWS).		
8.	INSTALL S/S DIAMOND PLATE REMOVAL FLOOR HATCH COVER OVER TRENCH.		
9.	NEW FLOOR DRAIN CONNECTED TO EXISTING PLUMBING.		
10.	NEW COUNTERTOP WITH S/S SINK. REFER TO MECHANICAL.		
11.	EXISTING OPENING FOR AHU INTAKE. ENSURE ALL TRIMS, FLASHINGS, LOUVRES ARE REINSTALLED AFTER NEW WORK. APPLY NEW EXTERIOR SEALANT TO MATCH LOUVRE.		
12.	NEW SUSPENDED UNIT HEATER. REFER TO MECHANICAL.		
13.	REPAIR DAMAGED CONCRETE BLOCKS AT COLUMNS UP TO U/S NEW CEILING		

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KEY PLAN		PLAN CLÉ	
ROOM 111			
[Key Plan Diagram]			

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

project: BUILDING M-24 ROOM 111 LAB RENOVATIONS PHASE 2 BASE BUILD FIT-UP

project: MONTREAL ROAD CAMPUS

drawing: NEW CONSTRUCTION: FLOOR PLAN AND REFLECTED CEILING PLANS DOOR AND WALL TYPES

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designed	conçu	date
A.J.S.		AUGUST 2023
drawn	dessiné	scale
A.J.S.		AS SHOWN
checked	vérifié	sheet
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6218-A02	fichier CDAO:	

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SYMBOLS LEGEND

- (DXX)** DOOR NUMBER
- (OH-X)** O/H DOOR NUMBER: NEW INSULATED COMMERCIAL METAL SECTIONAL DOOR c/w NEW RAILS AND MOTOR
- XXX** ROOM NUMBER
- CON F1** FINISHED FLOOR TYPE
- (W)** WALL TYPE
- SHADING INDICATES EXISTING WALLS/FLOORS/CEILINGS

DEMOLITION NOTES

SHEET A03 ONLY

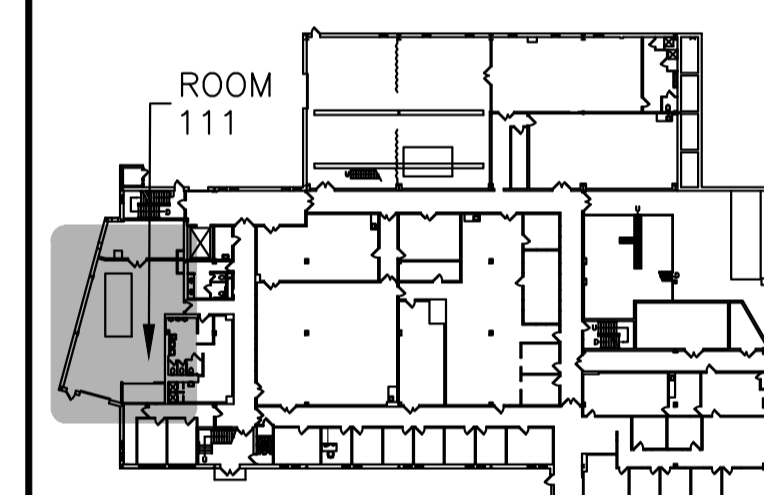
- EXISTING CONCRETE CURB TO BE REMOVED. REPAIR DAMAGED FLOOR.
- EXISTING CONCRETE SLAB TO BE REMOVED. REFER TO STRUCTURAL.
- EXISTING STEEL GRATE AND ANGLE FRAMING TO BE REMOVED.
- EXISTING 150mm SANITARY DRAIN TO REMAIN. CUT PIPING TO SUIT NEW CONNECTION. REFER TO MECHANICAL.
- EXISTING 100mm DRAIN PIPE TO FLOOR DRAINS TO BE REMOVED. REFER TO MECHANICAL.
- EXISTING CONCRETE TRENCH PIT SLAB TO REMAIN.
- EXISTING PARTITION - REMOVE GYPSUM BOARD, INSULATION AND STUD UP TO 300mm ABOVE NEW CEILING HEIGHT FOR REMOVAL OF CONCRETE CURB. INSPECT EXISTING CAVITY AND PREPARE AREA FOR NEW PARTITION INSTALLATION.

NEW CONSTRUCTION NOTES

SHEET A03 ONLY

- EXISTING CONCRETE SLAB ON GRADE C/W EPOXY FINISH.
- NEW CONCRETE SLAB ON GRADE C/W EPOXY FINISH. REFER TO STRUCTURAL.
- NEW APPROVED COMPACTED STONE TO FILL EXISTING TRENCH AND UNDER NEW SLAB.
- NEW SEDIMENT INTERCEPTOR TO BE INSTALLED OUTSIDE OF TRENCH PIT WALLS. CORE NEW HOLES IF REQUIRED AND CONNECT TO NEW FLOOR DRAINS AND EXISTING SANITARY DRAIN. REFER TO MECHANICAL.
- CLEAN-OUT FOR SEDIMENT INTERCEPTOR TO BE FLUSH TO FLOOR.
- PROVIDE NEW CORING THROUGH EXISTING CONCRETE WALL FOR NEW PLUMBING.
- EXISTING COMPACTED STONE TO REMAIN.
- EXISTING MECHANICAL TRENCH TO REMAIN. REFER TO MECHANICAL FOR ANY NEW WORK WITHIN.
- INSTALL NEW +/- 600mm x 1200mm x 6mm S/S CHECKERED REMOVAL PLATE TRENCH COVER TO LAY ON L76x51x6mm STEEL FRAME WITH ANCHORS @450mm O.C. PROVIDE SEAL STOP ALL AROUND. REFER TO STRUCTURAL DRAWINGS.
- EXISTING WALL ASSEMBLY. REFER TO FLOOR PLANS FOR NEW WORK.
- NEW COMMERCIAL 50mm INSULATED SECTIONAL STEEL DOOR c/w WITH ONE FULL VIEW SECTION AND INDUSTRIAL-DUTY HOIST OPERATOR.
- 50mm LIFT TRACK AND STEEL FRAME SUPPORT, 25mm SOLID SHAFT AND 10M TORSION SPRINGS.
- CLEAR ALUMINUM RETAINER WEATHER STRIP TO JAMBS AND HEADER.
- EXISTING ALUMINUM JAMBS AND HEADERS EXTENSIONS TO REMAIN IN PLACE. PROVIDE NEW EXTERIOR GRADE SEALANT ALL AROUND DOOR FRAME.
- INSTALL NEW EXTRUDED ALUMINUM SILL AND EXTEND TO FOUNDATION EDGE. FILL CAVITY WITH CONTRACTOR WEATHERPROOF SEALANT.
- REINSTALL EXISTING DOOR AND ALL HARDWARE. REFER TO DOOR TYPES.
- SLOPE LIGHTLY NEW CONCRETE DOWN TO GRADE.
- CUT DAMAGED ALUMINUM JAMBS AND EXTENSIONS UP 300mm FROM FLOOR AT O/H DOOR. INSTALL NEW SECTIONS TO MATCH EXISTING AND SEAL.

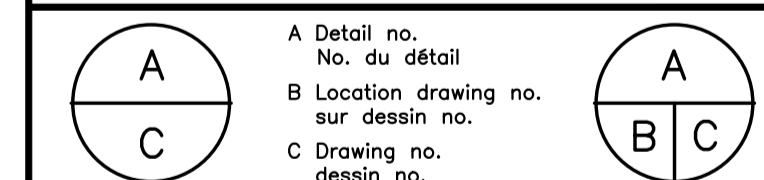
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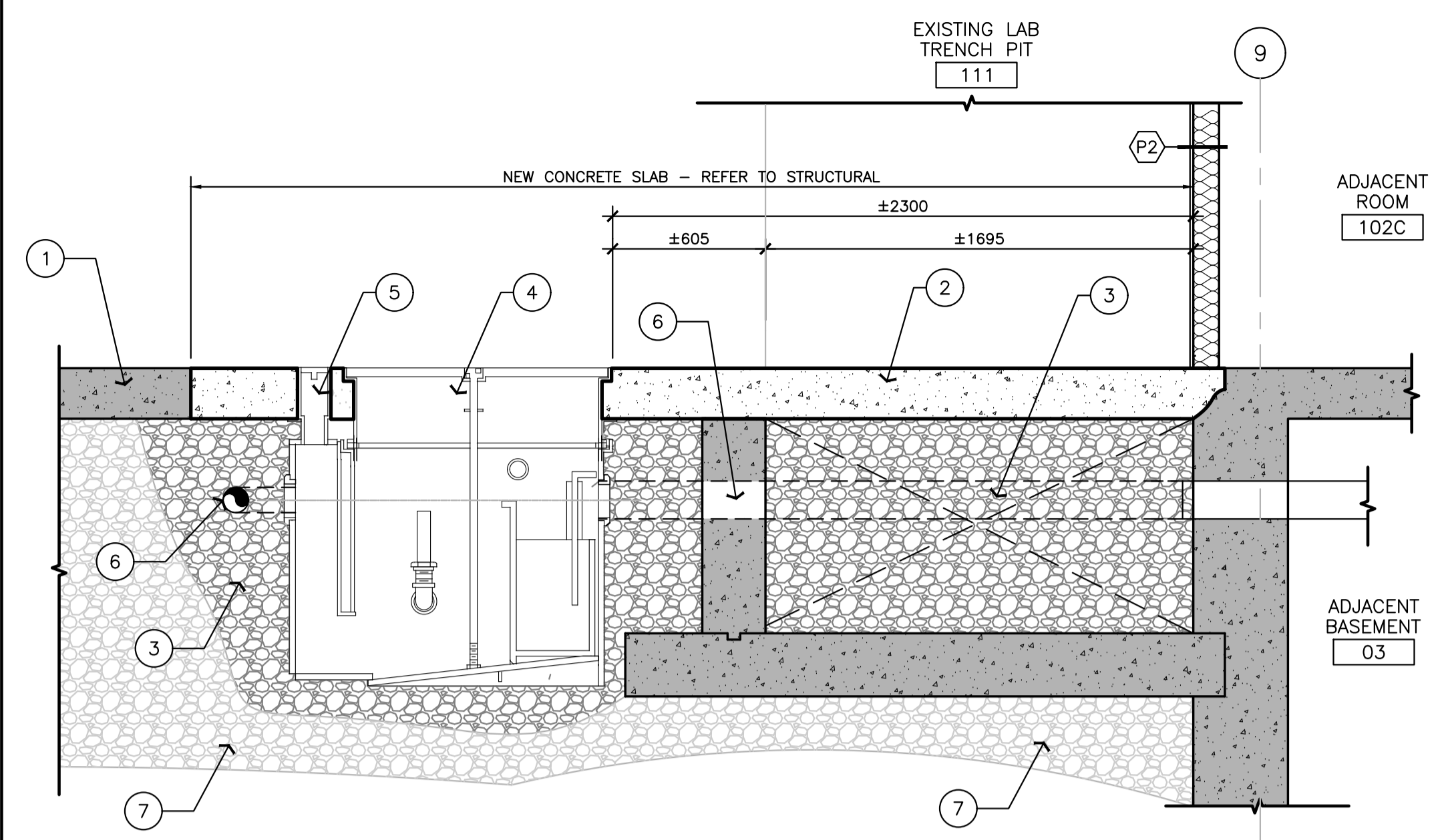
project: BUILDING M-24 ROOM 111 LAB RENOVATIONS PHASE 2 BASE BUILD FIT-UP

MONTREAL ROAD CAMPUS

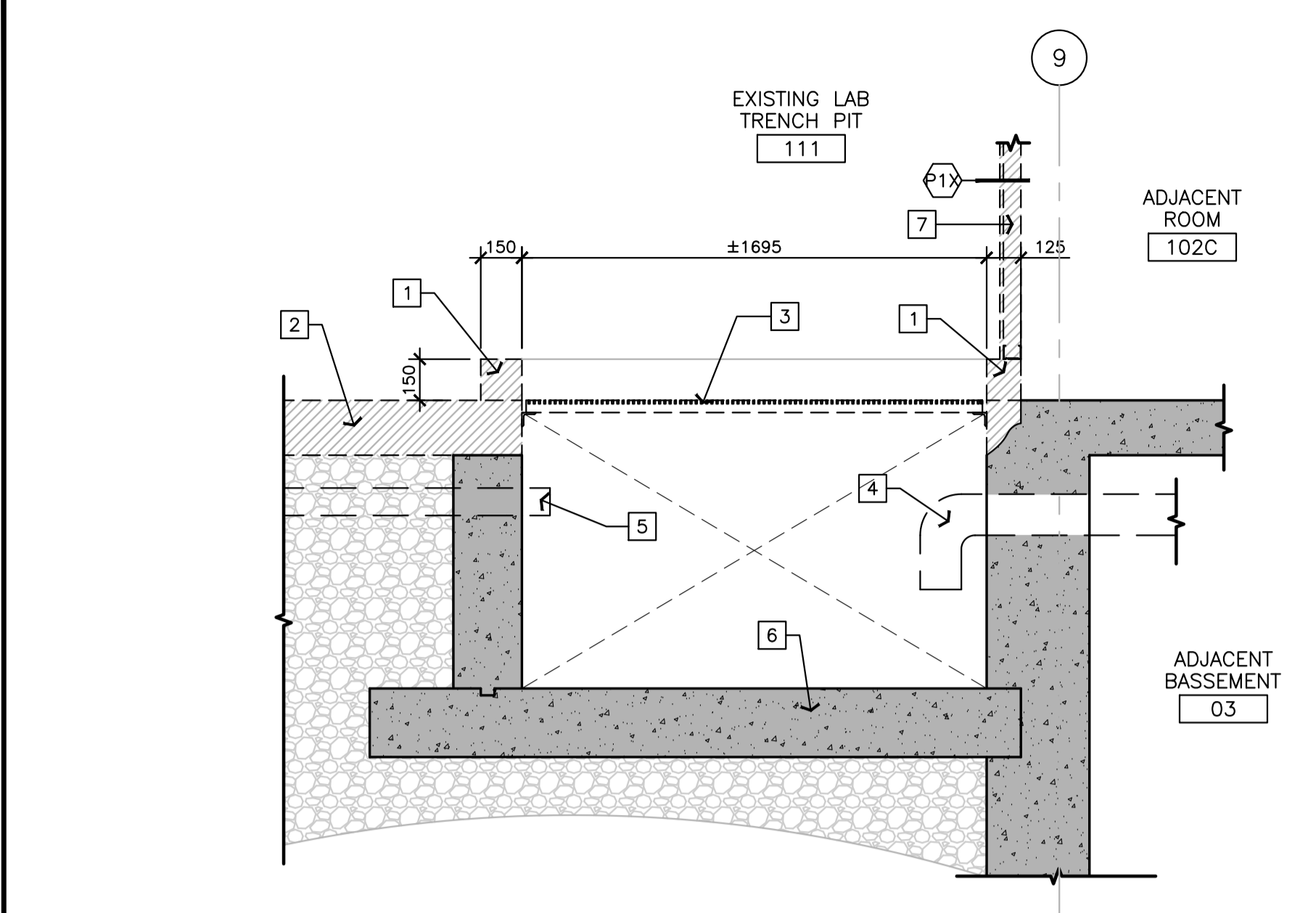
drawing: PARTIAL ROOM SECTIONS, SECTION AND PLAN DETAILS

designed	conçu	date	date
A.J.S.		AUGUST 2023	
drawn	dessiné	scale	échelle
A.J.S.		AS SHOWN	
checked	vérifié	sheet	of/de
F.G.			
approved	approuvé	W.O.no.	D.T.no.
F.G.			

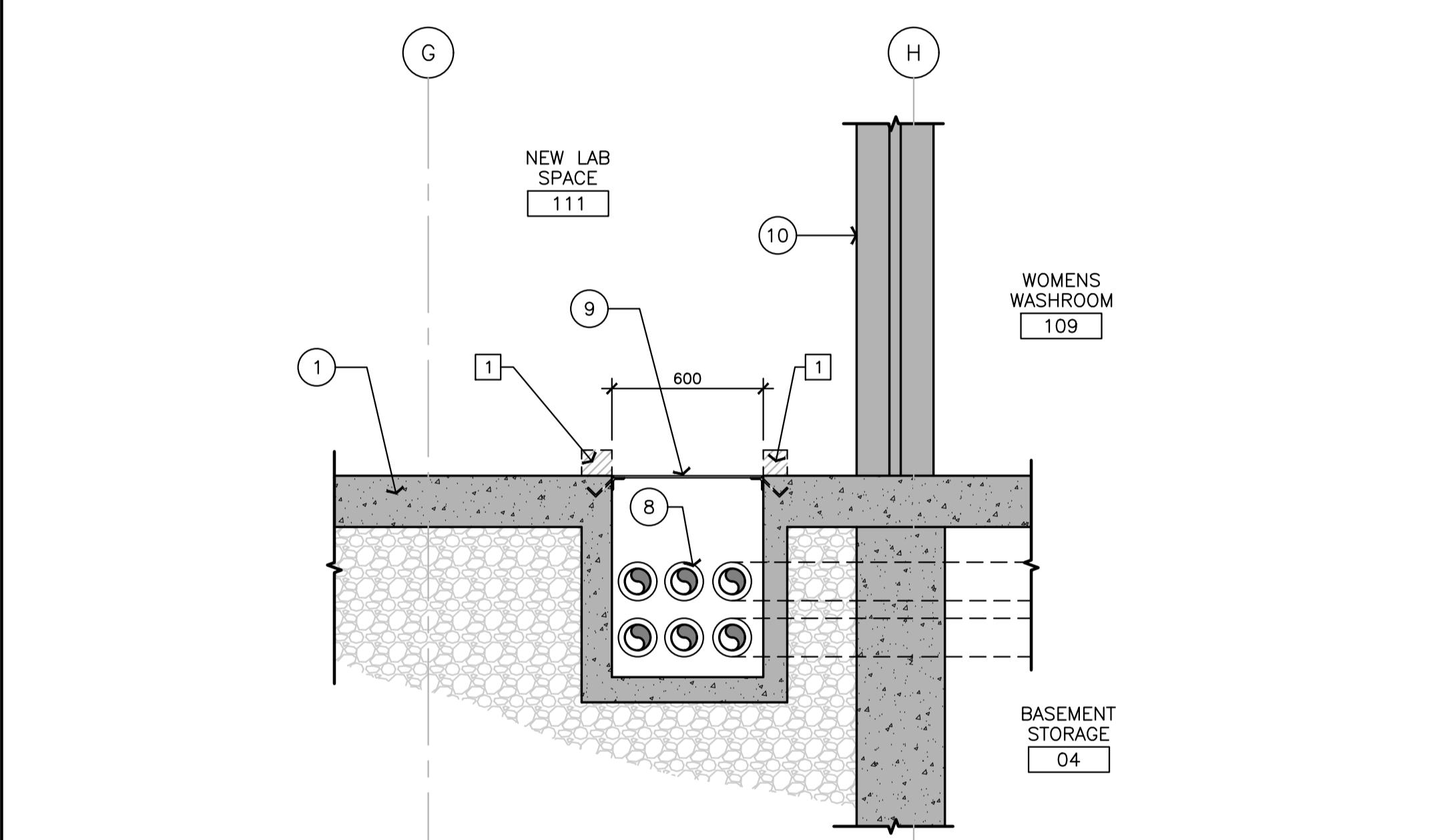
dwg.no. 6218-A03 / dessin no. / fichier CDAO:



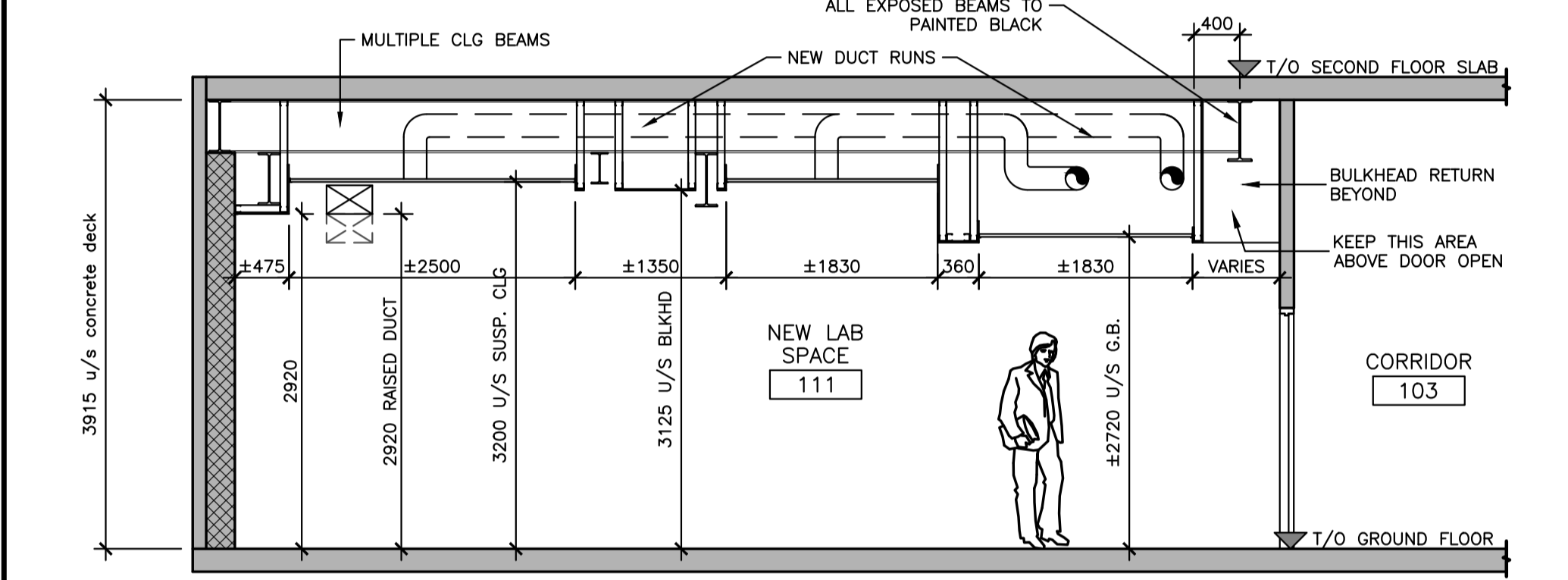
2 TRENCH PIT SECTION - NEW WORK
SCALE = 1:20



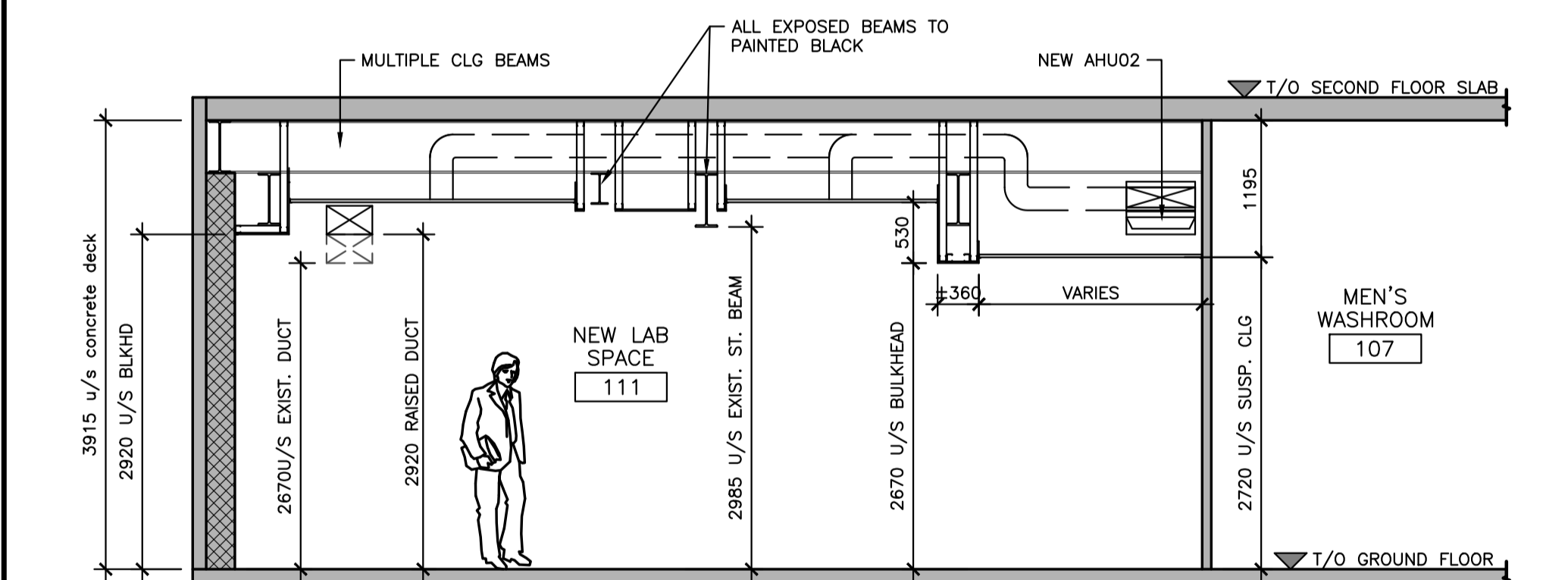
1 TRENCH PIT SECTION - DEMO
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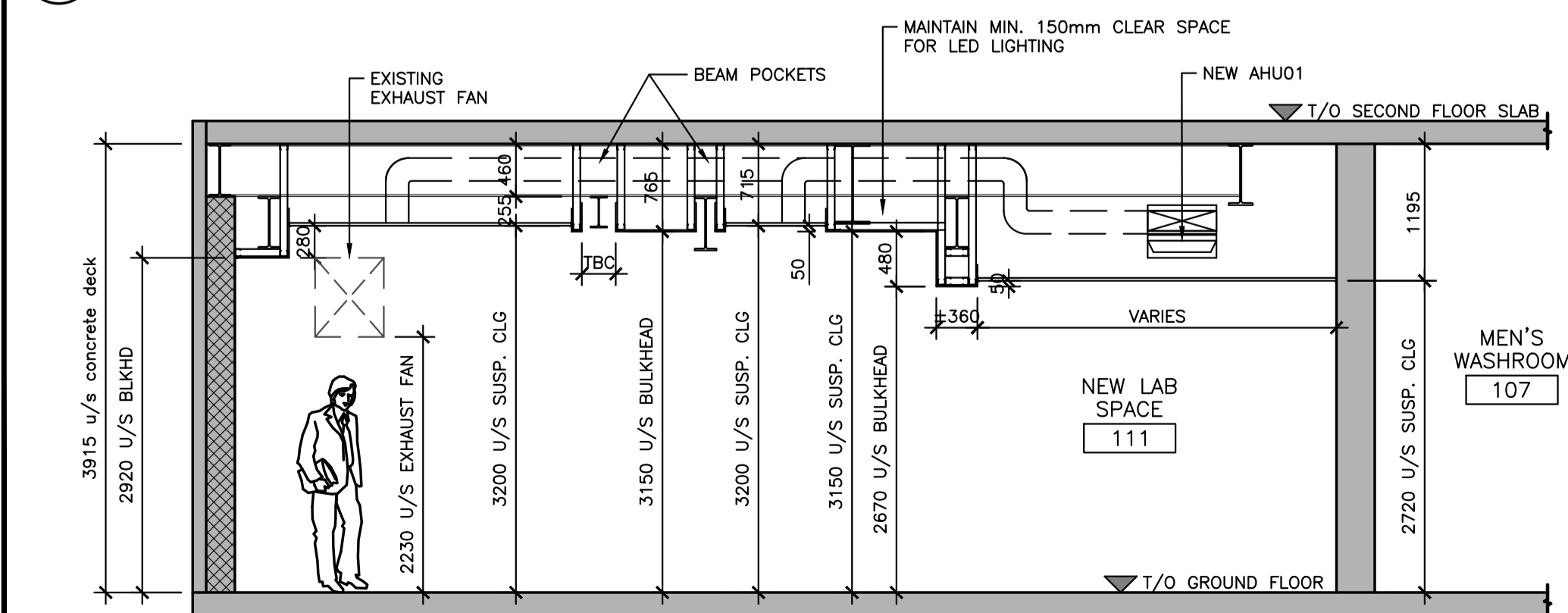
3 MECHANICAL TRENCH - NEW ACCESS FLOOR HATCH
SCALE = 1:20



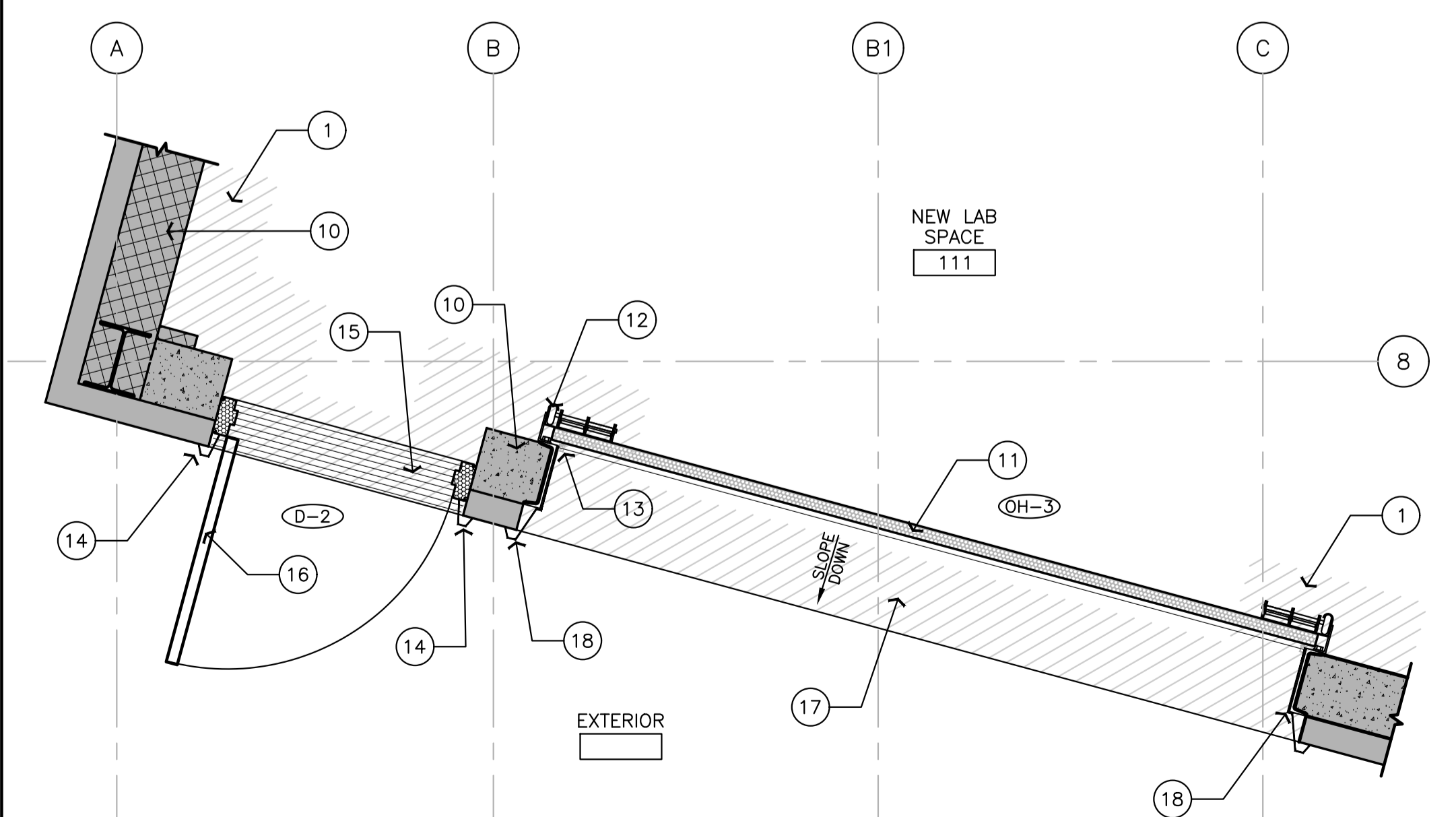
7 PARTIAL SECTION C
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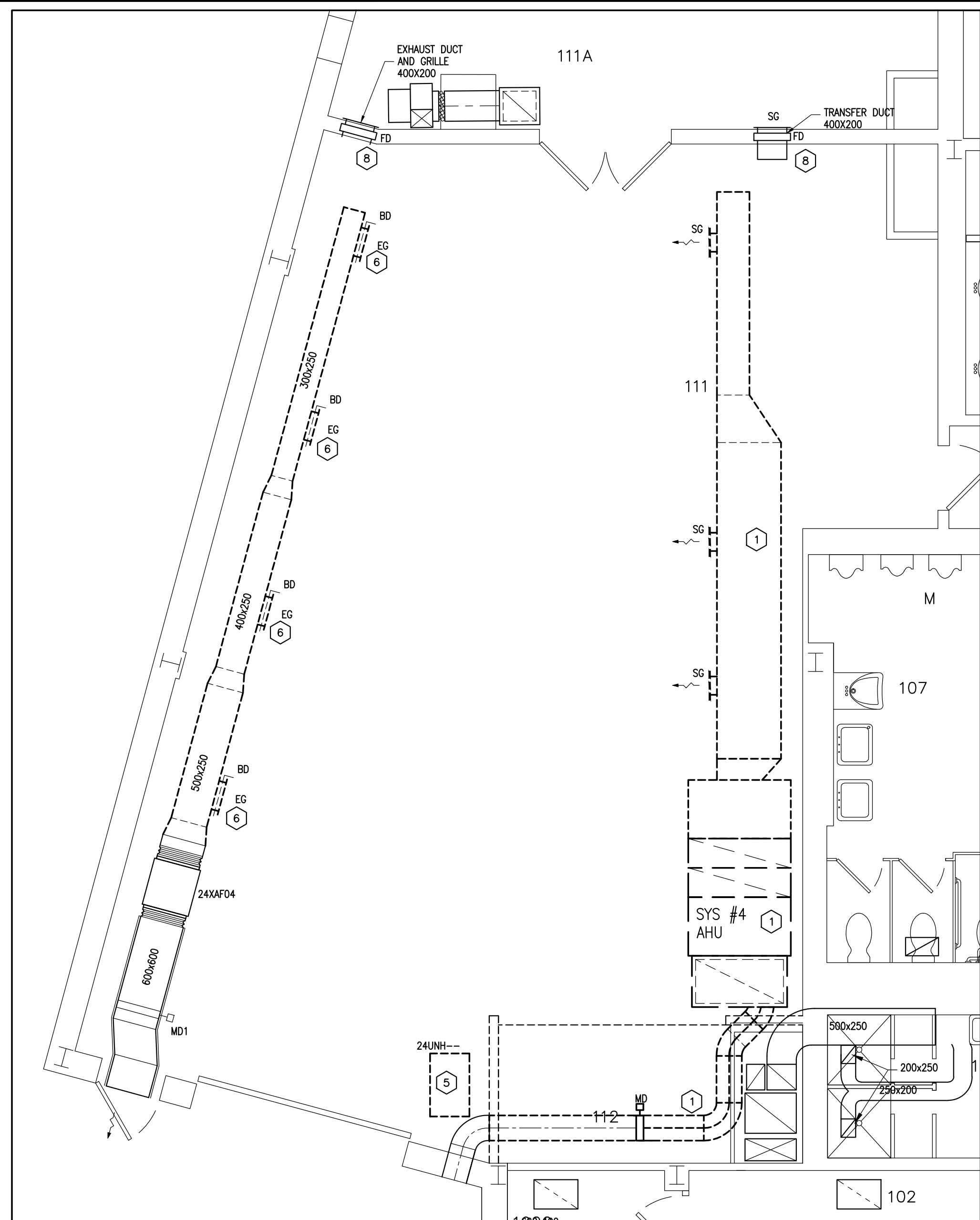
6 PARTIAL SECTION B
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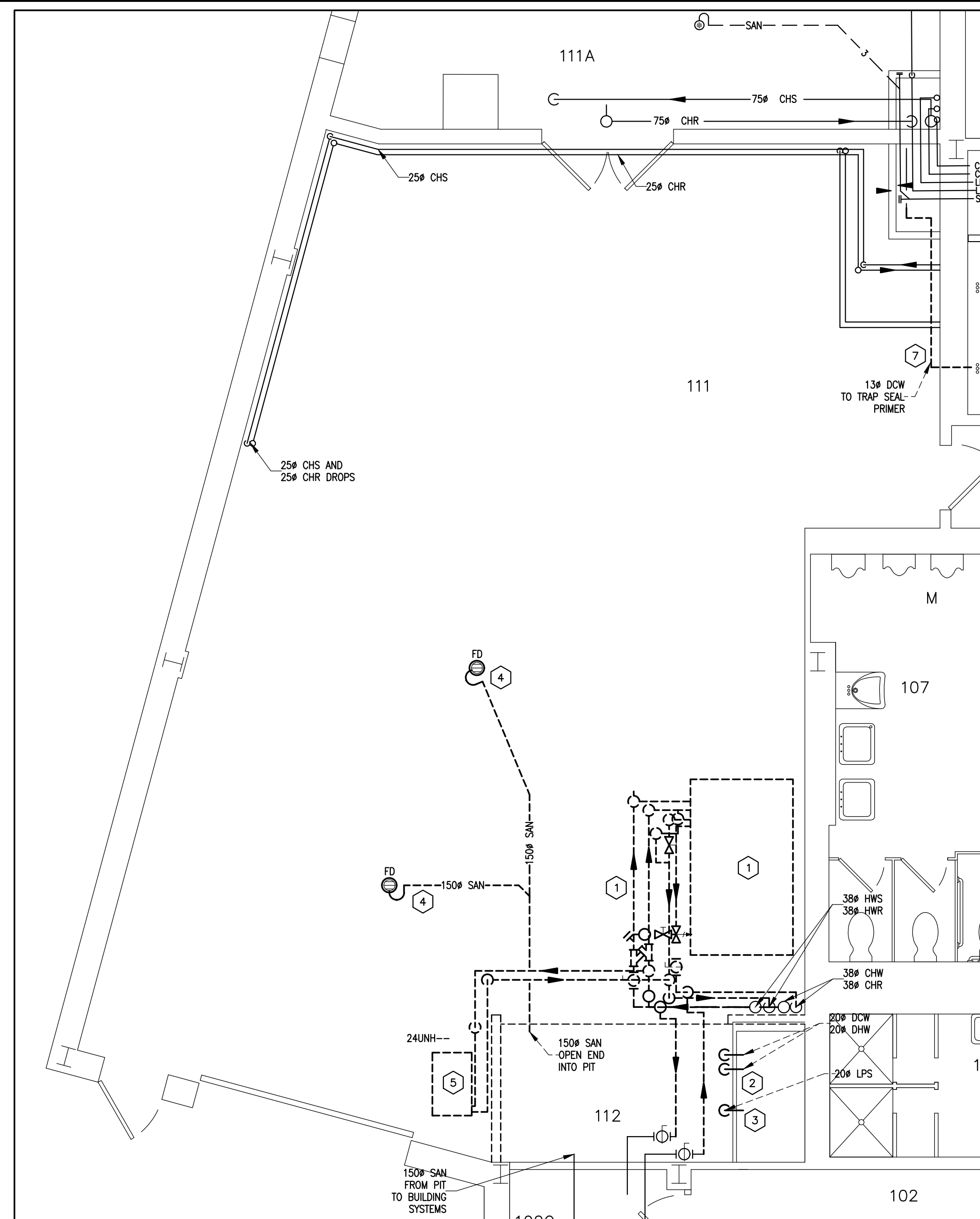
5 PARTIAL SECTION A
SCALE = 1:50



4 OVERHEAD DOOR JAMBS AND SILL DETAIL
SCALE = 1:20



1
M-24- ROOM 111 PLAN
HVAC DEMOLITION WORK
SCALE: 1:50



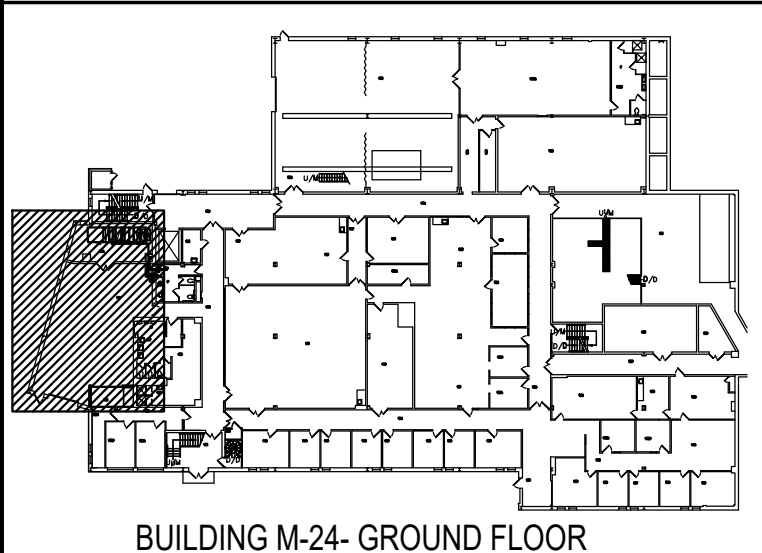
2
M-24- ROOM 111 PLAN
PLUMBING DEMOLITION WORK
SCALE: 1:50

- MECHANICAL NOTES:**
- CONTRACTOR TO ISOLATE, DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT, ASSOCIATED PIPING, DUCTWORK AND DIFFUSERS AS INDICATED. EXISTING FRESH DUCTWORK, MODULATING DAMPER AND EXTERIOR LOUVER TO REMAIN AS PART OF NEW WORK PLAN. DISPOSE OF MATERIAL OFF SITE AS PER NRC WASTE REDUCTION PLAN. COORDINATE ALL SHUTDOWNS REQUIRED WITH NRC REPRESENTATIVE A MINIMUM OF 3 DAYS AHEAD OF PLANNED REMOVALS.
 - CONTRACTOR TO REMOVE EXISTING DOMESTIC COLD WATER (DCW), DOMESTIC HOT WATER (DHW) AND ASSOCIATED VALVES AS INDICATED TO ALLOW FOR DEMOLITION OF EXISTING DRYWALL (REFER TO ARCHITECTURAL PLANS).
 - CONTRACTOR TO REMOVE EXISTING LOW PRESSURE STEAM (LPS) PIPING AND VALVE AS INDICATED. PIPING SHALL BE REMOVED BACK TO MAIN SUPPLY LOCATED IN BASEMENT. CAP AND SEAL AT SOURCE.
 - CONTRACTOR TO REMOVE EXISTING FLOOR DRAINS AND ASSOCIATED SANITARY DRAIN PIPING IN COORDINATION WITH CONCRETE FLOOR REPAIR WORK. DISPOSE OF MATERIAL OFF SITE AS PER NRC WASTE REDUCTION PLAN.
 - CONTRACTOR TO ISOLATE, DRAIN AND REMOVE EXISTING UNIT HEATER (24UNH--). ASSOCIATED PIPING AND SUPPORTS AS INDICATED. DISPOSE OF MATERIAL OFF SITE AS PER NRC WASTE REDUCTION PLAN.
 - CONTRACTOR TO REMOVE AND DISPOSE OFF SITE EXISTING EXHAUST GRILLES AND ASSOCIATED BALANCING DAMPERS AND CAP AND SEAL TAKE-OFFS. RAISE EXISTING EXHAUST DUCTWORK TO SUIT NEW T-BAR CEILING ELEVATION. REFER TO NEW WORK PLAN ON DRAWING M02 AND ARCHITECTURAL DRAWINGS.
 - CONTRACTOR TO REMOVE EXISTING DOMESTIC COLD WATER (DCW) PIPING TO PIPING FEEDING TRAP SEAL PRIMER (LOCATED IN ROOM 111A) IN EXISTING TRENCH. CAP AND SEAL TAKE-OFF FROM WOMEN'S WASHROOM. PREP PIPING IN TRENCH FOR RE-CONNECTION AS PER DESCRIPTION ON DRAWING M02.
 - REMOVE EXISTING CAPPING ON EXISTING SUPPLY AND RETURN TRANSFER DUCTS TO ALLOW FOR RE-ACTIVATION. REFER TO NEW WORK PLAN ON DRAWING M02 FOR ADDITIONAL INFORMATION. CONFIRM THAT EXISTING FIRE DAMPERS ARE OPERATIONAL AND NOT SEALED, REPORT FINDINGS TO NRC REPRESENTATIVE.



- 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

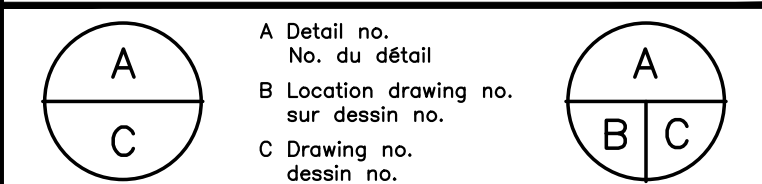


BUILDING M-24- GROUND FLOOR

No.	Date	Revision	By:
4	03 07 2024	ISSUED FOR TENDER	JWG
3	01 2024	ISSUED FOR TRANSLATION	JWG
2	10 20 2023	ISSUED FOR 99% CLIENT REVIEW	JWG
1	09 27 2023	ISSUED FOR 75% CLIENT REVIEW	JWG

Date Printed: DD 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.

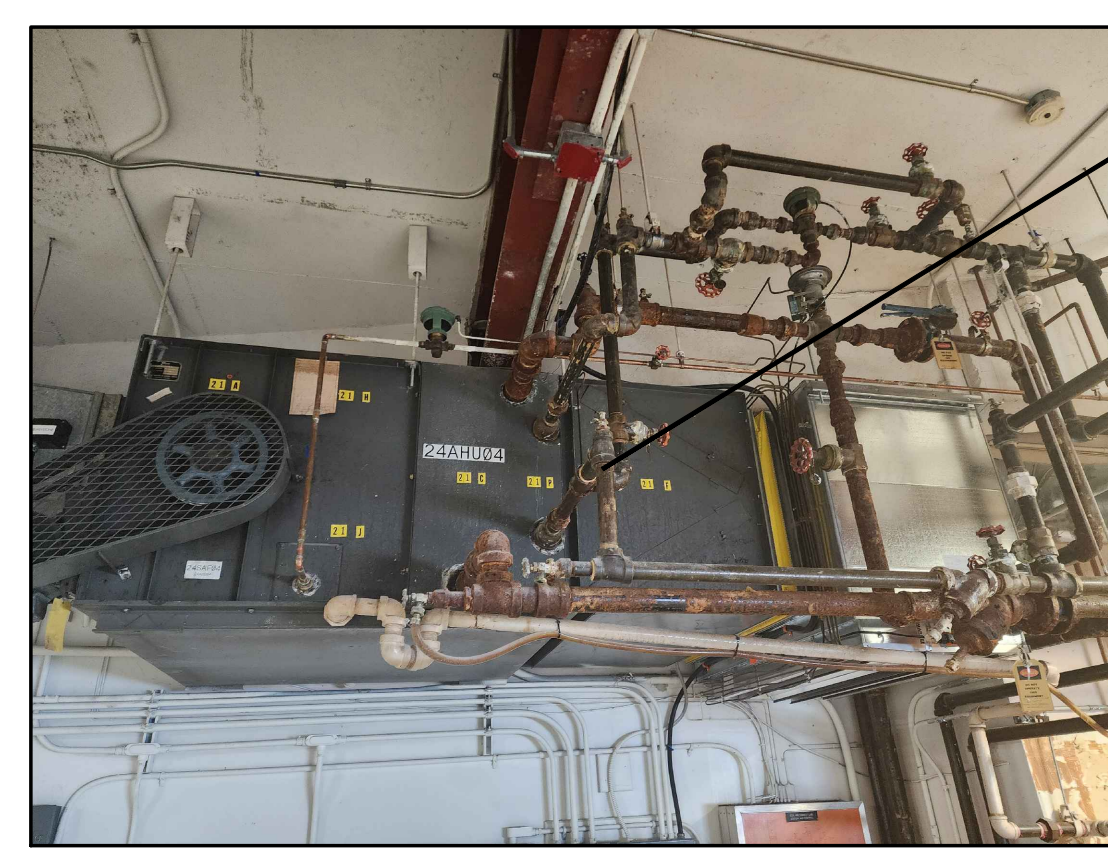


project: BUILDING M-24- ROOM 111- LAB RENOVATIONS projet

MONTREAL ROAD CAMPUS

MECHANICAL DEMOLITION WORK, DRAWING LIST AND DESCRIPTION OF WORK

designed	conçu	date	date
JWG		MAR 2024	
drawn	dessiné	scale	échelle
JWG		AS INDICATED	
checked	vérifié	sheet	of/de
		1	of/de 3
approved	approuvé	W.O.no.	D.T.no.
FG			
dwg.no.	dessin no.		
6218-M01			

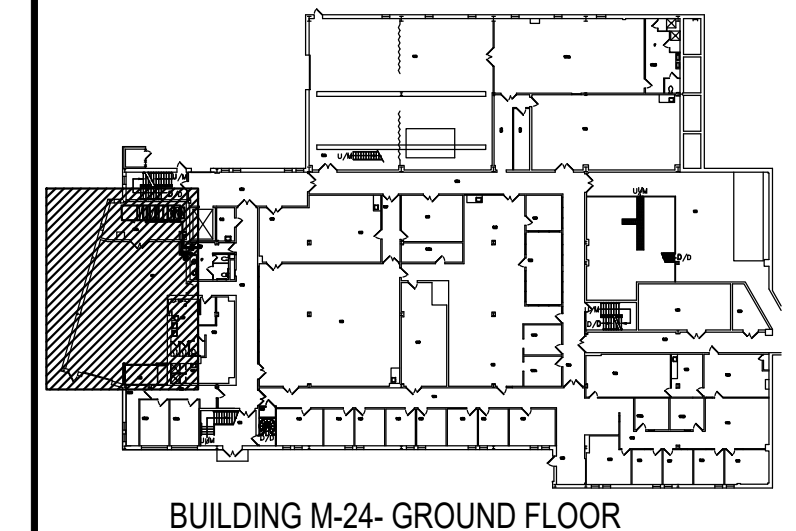




GENERAL NOTES

- 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.
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- 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.

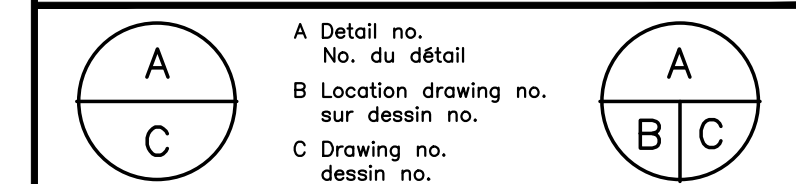
KEY PLAN / PLAN CLÉ



No.	Date	Revision	By:
4	03 07 2024	ISSUED FOR TENDER	JWG
3	01 2024	ISSUED FOR TRANSLATION	JWG
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1	09 27 2023	ISSUED FOR 75% CLIENT REVIEW	JWG

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.



project: BUILDING M-24- ROOM 111- LAB RENOVATIONS / projet

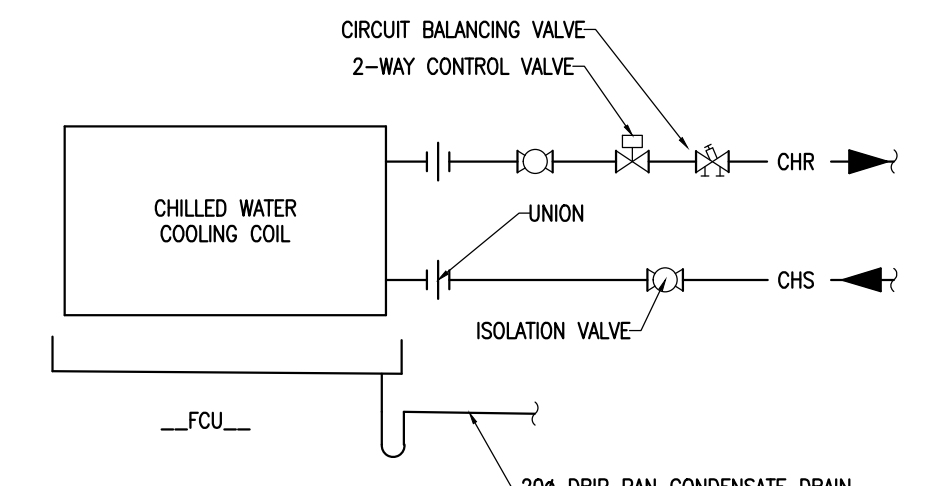
MONTREAL ROAD CAMPUS

MECHANICAL DETAILS, LEGENDS AND CONTROLS SEQUENCE

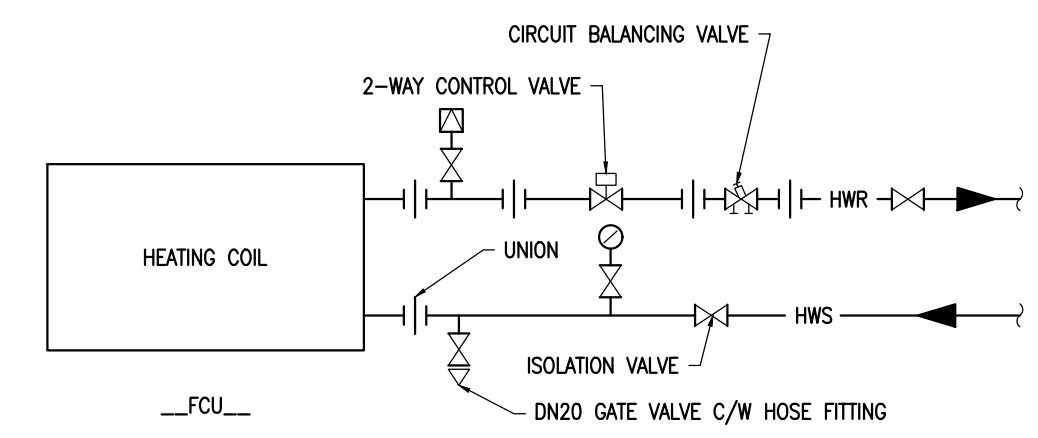
designed	conçu	date	date
JWG		MAR 2024	
drawn	dessiné	scale	échelle
JWG		AS INDICATED	
checked	vérifié	sheet	feuille
		3 of/de 3	
approved	approuvé	W.O.no.	D.T.no.
FG			
dwg.no.			dessin no.
6218-M02			

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	VALVE
[Symbol]	VALVE - VERTICAL
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	2-WAY CONTROL VALVE - PNEUMATIC
[Symbol]	2-WAY CONTROL VALVE - DDC
[Symbol]	3-WAY CONTROL VALVE - PNEUMATIC
[Symbol]	3-WAY CONTROL VALVE - DDC
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	STRAINER
[Symbol]	CLEANOUT
[Symbol]	CLEANOUT - FLOOR
[Symbol]	THERMOMETER
[Symbol]	PRESSURE GAUGE
[Symbol]	PIPE UP
[Symbol]	PIPE DOWN
[Symbol]	SANITARY TRAP
[Symbol]	UNION
[Symbol]	CAP
[Symbol]	FLOOR DRAIN / TRENCH DRAIN
[Symbol]	RECTANGULAR DUCTWORK
[Symbol]	ROUND DUCTWORK
[Symbol]	90° ELBOW
[Symbol]	45° ELBOW
[Symbol]	FAN COIL UNIT
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTICALLY LINED DUCT
[Symbol]	THERMALLY INSULATED DUCT
[Symbol]	FLEX DUCT
[Symbol]	RECTANGULAR TAKE OFF
[Symbol]	RECTANGULAR TAKE OFF C/W BALANCING DAMPER
[Symbol]	ROUND TAKE OFF C/W BALANCING DAMPER
[Symbol]	BALANCING DAMPER
[Symbol]	T-STAT (DDC)
[Symbol]	AC UNIT CONTROLLER
[Symbol]	MOTORIZED DAMPER MOTOR

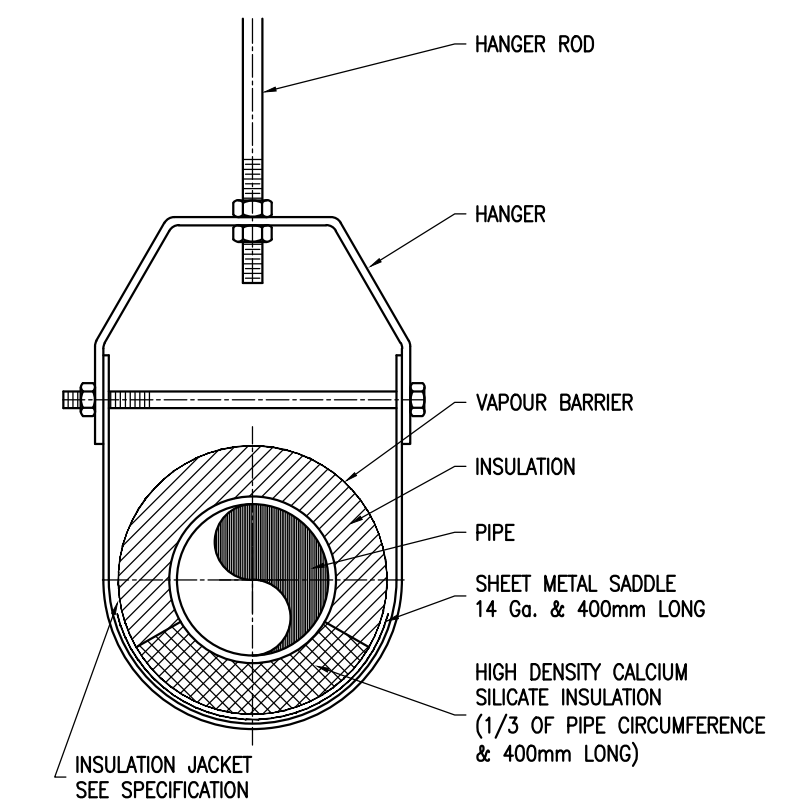
MECHANICAL LINE TYPE LEGEND	
LINE	DESCRIPTION
[Symbol]	INDICATES NEW
[Symbol]	INDICATES EXISTING (TO REMAIN)
[Symbol]	INDICATES DEMOLISHED/ REMOVED
[Symbol]	SANITARY DRAIN PIPING
[Symbol]	VENT PIPING
[Symbol]	CONDENSATE DRAIN PIPING
[Symbol]	CHILLED WATER SUPPLY
[Symbol]	CHILLED WATER RETURN
[Symbol]	HEATING WATER SUPPLY PIPING
[Symbol]	HEATING WATER RETURN PIPING
[Symbol]	CONTROL LINE



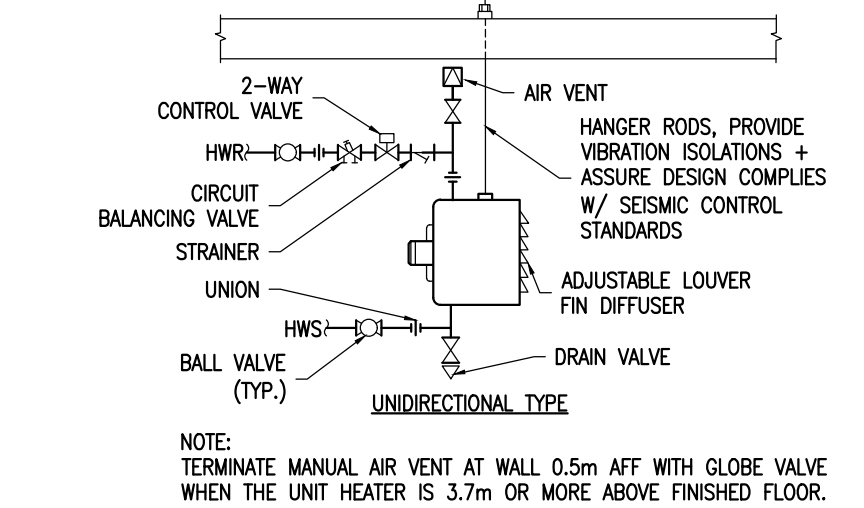
1 FAN COIL PIPING SCHEMATIC - CHILLED WATER
 M03 SCALE: N.T.S.



3 FAN COIL PIPING SCHEMATIC- HEATING
 M03 SCALE: N.T.S.



2 INSULATED PIPE HANGER DETAIL
 M03 SCALE: N.T.S.



4 TYPICAL HOT WATER PIPING SCHEMATIC FOR UNIT HEATERS
 M03 SCALE: N.T.S.

GENERAL SEQUENCE OF OPERATION (FAN COILS):

- STOPPED MODE:
- WHEN THE SYSTEM IS STOPPED, THE SUPPLY FAN ECM IS SET TO 5%. THE COOLING VALVE CLG IS CLOSED.
- START-UP MODE:
- THE FAN COIL UNIT WILL BE STARTED BY AN OWS MANUAL COMMAND, CLIENT OVERRIDE OR BY AN AUTOMATIC START/STOP SCHEDULE PROGRAM.
 - A CURRENT SENSOR IS INSTALLED ON THE LOAD SIDE OF THE SUPPLY FAN SFA. THE DDC SYSTEM USES THE SENSOR TO CONFIRM THE SUPPLY FAN IS IN THE DESIRED STATE (E. ON OR OFF) AND GENERATES AND ALARM IF STATUS DEVIATES FROM DDC START/STOP CONTROL.
- NORMAL OPERATION:
- SUMMER MODE: THE HEATING COIL VALVE (HLG) WILL BE CLOSED. THE CHILLED WATER COOLING COIL VALVE CLG WILL BE MODULATED TO MAINTAIN A ROOM TEMPERATURE SETPOINT (ADJUSTABLE). THE FAN SPEED WILL MODULATE BETWEEN 50% AND 100% TO MAINTAIN SPACE TEMPERATURE SETPOINT ONLY ONCE THE COOLING VALVE HAS OPENED TO 100%. FAN SPEED CAN BE OVERRIDDEN BY OWS OR CLIENT VIA SMART STAT. IF THE FAN SPEED IS MANUALLY OVERRIDDEN TO LOW, MEDIUM OR HIGH SPEED IT WILL RETURN TO AUTOMATIC MODE ONCE OCCUPANCY FLAG IS VACANT.
 - WINTER MODE: THE COOLING COIL (CLG) VALVE WILL BE CLOSED. THE HEATING WATER COIL HLG WILL BE MODULATED TO MAINTAIN A ROOM TEMPERATURE SETPOINT (ADJUSTABLE). THE FAN SPEED WILL BE KEPT IN LOW SPEED. FAN SPEED CAN BE OVERRIDDEN BY OWS OR CLIENT VIA SMART STAT. IF FAN SPEED IS MANUALLY OVERRIDDEN TO LOW, MEDIUM OR HIGH SPEED IT WILL RETURN TO AUTOMATIC MODE ONCE OCCUPANCY FLAG IS VACANT.
 - THE FAN COIL SUPPLY AIR TEMPERATURE (DISCHARGE AIR TEMPERATURE) DAT ALARM WILL BE ACTIVE WHEN CHILLED WATER TEMPERATURE CWST IS BELOW 10°C (50°F), IF ROOM TEMPERATURE EXCEEDS 25.5°C (78°F) OR IF ROOM TEMPERATURE FALLS BELOW 18°C (64°F).
- POWER FAILURE:
- ON A RETURN TO NORMAL POWER FOLLOWING A POWER FAILURE, THE SYSTEM WILL BE RE-STARTED AUTOMATICALLY, IF SO SCHEDULED.
- DETECTION OF HYDRO CARBONS:
- IF HYDRO CARBONS ARE DETECTED IN AIR FLOWS, PRIORITY ALARM MESSAGE TO BE SENT AND FAN COIL UNIT SHALL SHUT DOWN.
 - FAN COILS SHALL RESTART AFTER HYDRO CARBONS LEVELS ARE NO LONGER DETECTED AND BY BAS OPERATOR.

GENERAL SEQUENCE OF OPERATION (EXHAUST FAN 24XAF--):

- NORMAL OPERATION:
- SUMMER MODE: THE EXHAUST FAN SHALL RUN AT SET POINT (REFER TO SCHEDULE FOR AIR FLOW) AND SHALL MAINTAIN CONSTANT STATIC PRESSURE. IN CASE OF SUPPLY AIR FAN (24SAF--) FAILURE, EXHAUST FAN SHALL SHUTDOWN AND ALARM SENT TO BAS.
 - WINTER MODE: THE EXHAUST FAN SHALL RUN AT FIXED SETTING TO MAINTAIN STATIC PRESSURE. IF INCOMING AIR TEMPERATURE TO INLETS OF FAN COIL UNITS IS LESS THEN 7°C, INDICATING REHEAT COIL FAILURE EXHAUST FAN SHALL SHUT DOWN AND ALARM TO BE SENT TO BAS.
 - THE EXHAUST FAN SHALL CONSTANTLY MAINTAIN A SET STATIC PRESSURE ON EXHAUST (REFER TO SCHEDULE) AND SHALL ONLY BE ADJUSTABLE VIA BAS.
- POWER FAILURE:
- ON A RETURN TO NORMAL POWER FOLLOWING A POWER FAILURE, THE SYSTEM WILL BE RE-STARTED AUTOMATICALLY.

GENERAL SEQUENCE OF OPERATION (SUPPLY FAN 24SAF--):

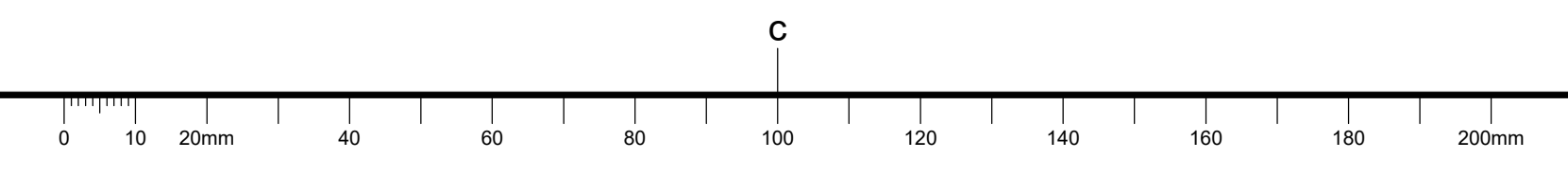
- NORMAL OPERATION:
- SUMMER MODE: THE SUPPLY FAN SHALL RUN AT SET POINT (REFER TO SCHEDULE FOR AIR FLOW) AND SHALL MAINTAIN CONSTANT STATIC PRESSURE. IN CASE OF SUPPLY AIR FAN (24SAF--) FAILURE, EXHAUST FAN SHALL SHUTDOWN AND ALARM SENT TO BAS.
 - WINTER MODE: THE SUPPLY AIR FAN SHALL RUN AT FIXED SETTING TO MAINTAIN STATIC PRESSURE. IF INCOMING AIR TEMPERATURE TO INLETS OF FAN COIL UNITS IS LESS THEN 7°C, INDICATING REHEAT COIL FAILURE SUPPLY AIR FAN SHALL SHUT DOWN AND ALARM TO BE SENT TO BAS.
 - THE SUPPLY AIR FAN SHALL CONSTANTLY MAINTAIN A SET STATIC PRESSURE ON EXHAUST (REFER TO SCHEDULE) AND SHALL ONLY BE ADJUSTABLE VIA BAS.
- POWER FAILURE:
- ON A RETURN TO NORMAL POWER FOLLOWING A POWER FAILURE, THE SYSTEM WILL BE RE-STARTED AUTOMATICALLY.

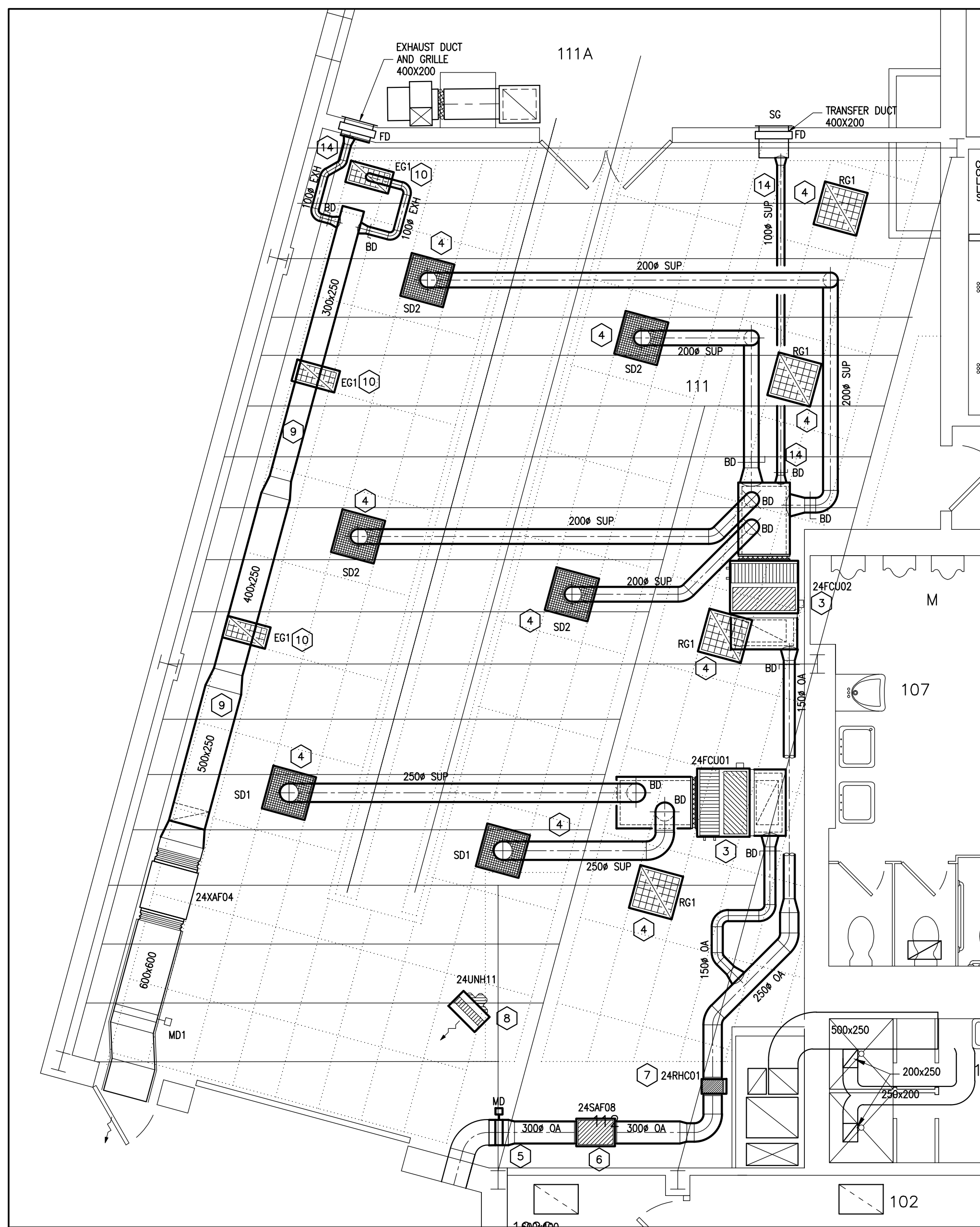
GENERAL SEQUENCE OF OPERATION ELECTRIC REHEAT COIL:

- NORMAL OPERATION:
- SUMMER MODE: REHEAT COIL IS OFF.
 - WINTER MODE: IF OUTDOOR AIR TEMPERATURE IS LESS THEN 0°C, REHEAT COIL SHALL MODULATE TO MAINTAIN A CONSTANT 12.7°C SUPPLY TEMPERATURE TO FAN COIL UNITS.
 - IF SUPPLY AIR FAN 24SAF-- FAILS OR NO AIR FLOW IS DETECTED, ALARM SHALL BE SENT FROM REHEAT COIL TO BAS.
- POWER FAILURE:
- ON A RETURN TO NORMAL POWER FOLLOWING A POWER FAILURE, THE SYSTEM WILL BE RE-STARTED AUTOMATICALLY.

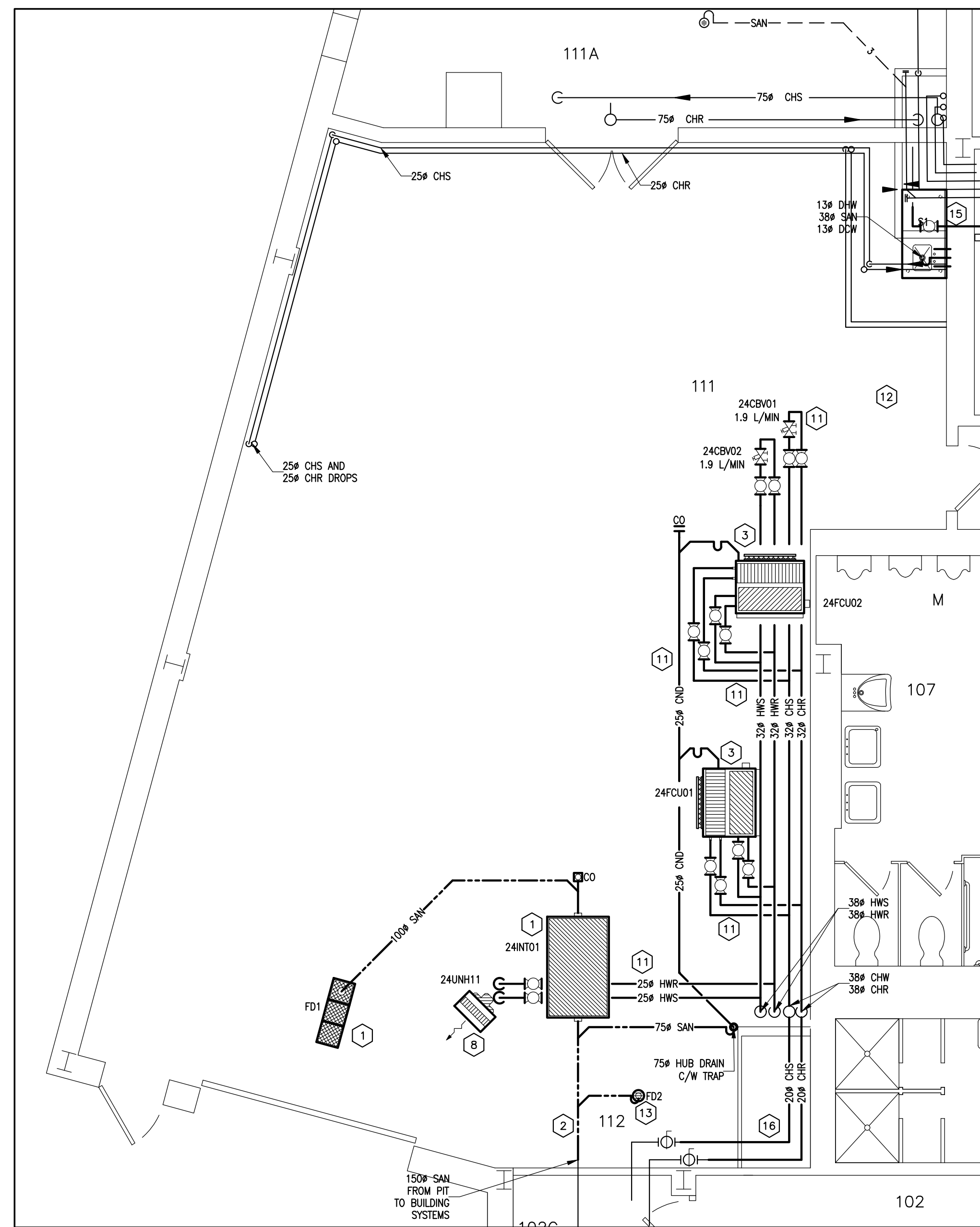
GENERAL SEQUENCE OF OPERATION UNIT HEATER:

- NORMAL OPERATION:
- SUMMER MODE: UNIT HEATER IS OFF.
 - WINTER MODE: IF OUTDOOR AIR TEMPERATURE IS LESS THEN 10°C, UNIT HEATER SHALL HEAT SPACE TO 22°C AS DETERMINED BY ASSOCIATED TEMPERATURE SENSOR.
 - IF GARAGE DOOR OPENS UNIT HEATER SHALL SHUTDOWN UNTIL DOOR IS FULLY CLOSED AS PROVEN BY CONTACT SWITCH.
- POWER FAILURE:
- ON A RETURN TO NORMAL POWER FOLLOWING A POWER FAILURE, THE SYSTEM WILL BE RE-STARTED AUTOMATICALLY.





1
M-24- ROOM 111 PLAN
HVAC NEW WORK
SCALE: 1:50



2
M-24- ROOM 111 PLAN
PLUMBING NEW WORK
SCALE: 1:50

MECHANICAL NOTES:

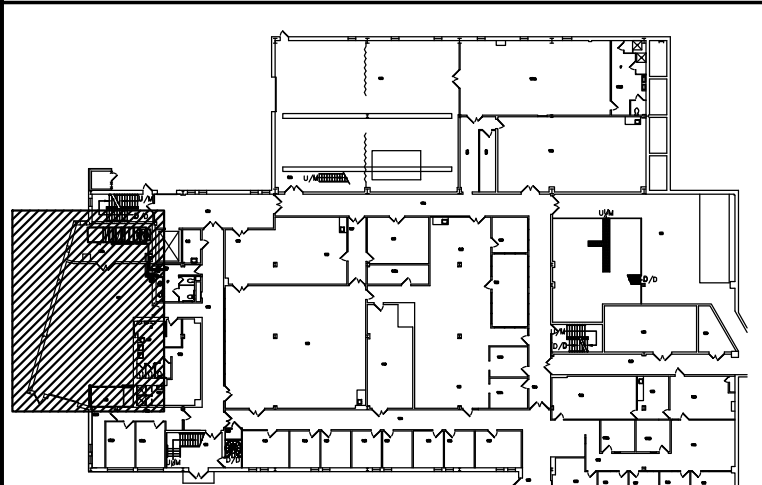
- CONTRACTOR TO PROVIDE NEW TRENCH DRAIN, SANITARY PIPING AND SEDIMENT INTERCEPTOR (24INT01) SIZED AND LOCATED AS INDICATED AND AS PER SPECIFICATIONS AND SCHEDULE. NEW INTERCEPTOR LOCATION SHALL BE WHERE THE FORMER DRAIN PIT WAS LOCATED AND SHALL BE CONNECTED TO EXISTING SANITARY DRAIN OUT OF PIT. COORDINATE ALL WORK WITH CONCRETE AND ARCHITECTURAL CONTRACTORS.
- CONTRACTOR TO PROVIDE SANITARY DRAIN PIPING SIZED AND LOCATED AS INDICATED FROM SEDIMENT INTERCEPTOR TO EXISTING SANITARY CONNECTION LOCATED IN PIT. COORDINATE TIMING WITH ARCHITECTURAL CONTRACTORS.
- CONTRACTOR TO PROVIDE NEW FAN COIL UNITS (24FCU01 AND 24FCU02), SUPPLY, RETURN AND OUTDOOR AIR (OA) DUCTWORK SIZED AND LOCATED AS INDICATED, CHILLED WATER SUPPLY AND RETURN PIPING, HEATING WATER SUPPLY AND RETURN PIPING SIZED AND LOCATED AS INDICATED AND ALL REQUIRED SUPPORT HANGERS AND SEISMIC RESTRAINTS AS REQUIRED. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE NEW RETURN AIR GRILLES (RG1), DIFFUSERS (SD1, SD2) AND ASSOCIATED BRANCH DUCTWORK SIZED AND LOCATED AS INDICATED. NEW BRANCH DUCTWORK SHALL BE RUN BETWEEN EXISTING STRUCTURAL STEEL MEMBERS TO PROVIDE MAXIMUM CEILING HEIGHT. COORDINATE ROUTES WITH EXISTING ELECTRICAL AND MECHANICAL SERVICES.
- CONTRACTOR TO PROVIDE OUTDOOR AIR DUCTWORK FROM EXISTING DUCTWORK TO NEW FAN COIL UNITS SIZED AND LOCATED AS INDICATED.
- CONTRACTOR TO PROVIDE NEW OUTDOOR AIR SUPPLY FAN (24SAF08), REQUIRED FLEX CONNECTIONS, SUPPORTS AND VIBRATION ISOLATORS. REFER TO SPECIFICATIONS AND SCHEDULES FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE NEW FRESH AIR DUCT HEATER (24RH001) AS INDICATED. DUCT HEATER SHALL OPERATE WHEN INCOMING OUTDOOR AIR IS BELOW 8°C AND WHILE NEW SUPPLY AIR FAN IS RUNNING.
- CONTRACTOR TO PROVIDE NEW UNIT HEATER 24UNH11, ASSOCIATED HEATING WATER SUPPLY AND RETURN PIPING, ASSOCIATED VALVES AND REQUIRED ACCESSORIES. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION. UNIT HEATER SHALL BE INSTALLED BELOW NEW DROP CEILING AND ANY SUPPORT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL CONTRACTORS.
- CONTRACTOR TO REUSE EXISTING EXHAUST DUCTWORK AND EXHAUST FAN TO AS CLOSE TO EXISTING BUILDING STRUCTURE AS POSSIBLE. CONTRACTOR TO MODIFY CONNECTION TO EXTERIOR LOUVER TO SUIT AND SHALL RE-INSULATE TO MATCH EXISTING.
- CONTRACTOR TO PROVIDE NEW EXHAUST GRILLES, TAKE-OFFS C/W BALANCING DAMPERS AND CONNECT TO RELOCATED EXHAUST DUCT. REFER TO SCHEDULE AND SPECIFICATIONS FOR BASIS OF DESIGN AND SIZE.
- CONTRACTOR TO INSULATE ALL NEW AND EXISTING CHILLED WATER SUPPLY AND RETURN PIPING, HEATING WATER SUPPLY AND RETURN PIPING, DOMESTIC HOT WATER, DOMESTIC COLD WATER AND CONDENSATE PIPE AS PER SPECIFICATIONS. LABEL ALL PIPING AS PER NRC SPECIFICATIONS AFTER COMPLETION AND INSPECTION OF INSULATION WORK.
- CONTRACTOR TO PROVIDE NEW SINK S1 C/W FAUCET, DOMESTIC HOT WATER (DHW), DOMESTIC COLD WATER (DCW) AND SANITARY DRAIN PIPING. CONNECT NEW SERVICES TO EXISTING SERVICES. PROVIDE 1/4 TURN SHUT-OFF VALVES FOR DOMESTIC HOT WATER AND DOMESTIC COLD WATER PIPING BELOW SINK.
- CONTRACTOR TO PROVIDE NEW FLOOR DRAIN FD2, TRAP AND BRANCH PIPING SIZED AND LOCATED AS INDICATED. REFER TO SPECIFICATIONS AND SCHEDULE FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE NEW EXHAUST AND SUPPLY DUCTWORK TO EXISTING SUPPLY AND EXHAUST GRILLES. PROVIDE PROPER CONNECTIONS AND TEST. ADJUST AND BALANCE AIR FLOWS TO 47 L/S SUPPLY AIR AND 60 L/S EXHAUST.
- CONTRACTOR TO PROVIDE 13# DOMESTIC COLD WATER (DCW) AND ISOLATION VALVE FROM BASEMENT MAIN SUPPLY LINE THROUGH EXISTING TRENCH AND CONNECT TO EXISTING TRAP SEAL PRIMER PIPING. CONTRACTOR TO INSULATE NEW AND EXISTING PIPING AS PER SPECIFICATIONS AND LABEL AS PER NRC STANDARDS.
- CONTRACTOR TO CONNECT EXISTING CHILLED WATER SUPPLY AND RETURN PIPING TO NEW DISTRIBUTION PIPING AS INDICATED. PROVIDE NEW ISOLATION VALVES AND ANY REQUIRED FITTINGS.
- TYPICAL: CONTRACTOR TO TEST, ADJUST AND BALANCE ALL EXHAUST GRILLES, SUPPLY DIFFUSERS, CIRCUIT BALANCING VALVES, FAN COIL UNITS AND UNIT HEATER TO AIR FLOWS SPECIFIED. SUBMIT PDF COPY OF TAB TO NRC REPRESENTATIVE FOR REVIEW BEFORE INCLUDING IN O&M MANUALS.
- TYPICAL: CONTRACTOR TO SEAL ALL NEW AND EXISTING PIPING WALL PENETRATIONS BETWEEN ROOM 111 AND ADJOINING SPACES (INCLUDING IN TRENCH) WITH FIRE RATED SEALANT TO ASSURE SEPARATION OF SPACES AND TO ALLOW FOR APPROPRIATE PRESSURE CONTROL.



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

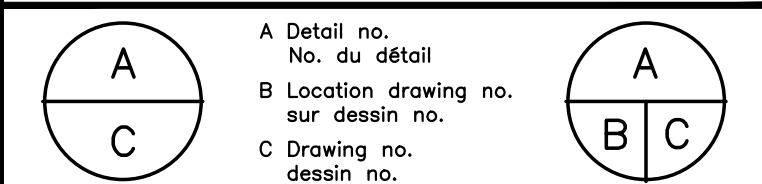


BUILDING M-24- GROUND FLOOR

No.	Date	Revision	By:	For:
4	03 07 2024	ISSUED FOR TENDER	JWG	
3	01 2024	ISSUED FOR TRANSLATION	JWG	
2	10 20 2023	ISSUED FOR 90% CLIENT REVIEW	JWG	
1	09 27 2023	ISSUED FOR 75% CLIENT REVIEW	JWG	

Date Printed: DD MM YYYY Date Imprimée: DD MM YYYY

- 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: **BUILDING M-24 ROOM 111 LAB RENOVATIONS**
PHASE 2 BASE BUILD FIT-UP

MONTREAL ROAD CAMPUS

drawing: **MECHANICAL NEW WORK, SCHEDULES AND DESCRIPTION OF WORK**

designed	conçu	date	date
JWG		MAR 2024	
drawn	dessiné	scale	échelle
JWG		AS INDICATED	
checked	vérifié	sheet	of/de
FG		2	of/de 3
approved	approuvé	W.O.no.	D.T.no.
dwg.no.	dessin no.		
6218-M03			

FIXTURE SCHEDULE						
TAG	FIXTURE TYPE	DCW	DHW	DHWR	SAN	REMARKS
S1	FREE-STANDING	13#	13#	---	40#	STAINLESS STEEL SINK
FD2	FLOOR DRAIN	---	---	---	75#	NEW
FD1	TRENCH DRAIN	---	---	---	100#	NEW

NOTES:

- NEW SINK IS BASED ON AN EIT MODEL TTUR2248-B STAINLESS STEEL SINK C/W SIDE TABLE (RIGHT HAND SINK INSTALLATION) AND MOEN FAUCET MODEL 8279SM, CHROME PLATED FINISH, 4 INCH CENTER SET.
- TRENCH DRAIN FD1 IS BASED ON JAY R SMITH MODEL 2710 HEAVY DUTY TRENCH DRAIN AND SHALL CONSIST OF TWO TYPE B SECTION AND ONE TYPE A SECTION.
- FLOOR DRAIN FD2 IS BASED ON A WAITS MODEL FD-100-B FLOOR DRAIN WITH ROUND HEAVY DUTY STRAINER, SUITABLE FOR CONCRETE FLOOR INSTALLATION, 75# OUTLET, EPOXY COATED CAST IRON BODY, CAST BRONZE STRAINER.
- NEW FIXTURES ARE TO BE CONNECTED TO EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER REGR., SANITARY DRAIN AND VENT SERVICES. ALL NEW DOMESTIC COLD, DOMESTIC HOT AND DOMESTIC REGR. TO BE INSULATED AS PER SPECIFICATIONS.
- ALL SANITARY PIPING TO BE SLOPED AS PER NATIONAL BUILDING CODE STANDARDS (NBC).

CHILLED WATER FAN COIL C/W RE-HEAT COIL SCHEDULE																							
TAG	LOCATION	COOLING COIL CAPACITIES						HEATING COIL CAPACITIES						GENERAL									
		T.C. (kW)	S.C. (kW)	EDBT	ENBT	LDBT	E.W.T.	L.W.T.	FLOW RATE (L/MIN)	T.C. (kW)	EDBT	ENBT	LDBT	E.W.T.	L.W.T.	FLOW RATE (L/MIN)	AIR FLOW L/S MAX	S.P. (Pa)	MOTOR (HP)	FRESH AIR REQ (L/S)	FLA/MCA/MOC	V/P/HZ	REMARKS
24FCU01	ROOM 111	6.15	5.07	26°C	18°C	14.1°C	7.2°C	12.8°C	---	7.8	12.8°C	10°C	25°C	82.2°C	69.8°C	---	376	1379	0.5	---	4.1/---/20	208/1/60	NEW-BASED ON HDY BLOWER COIL
24FCU02	ROOM 111	6.15	5.07	26°C	18°C	14.1°C	7.2°C	12.8°C	---	7.8	12.8°C	10°C	25°C	82.2°C	65.8°C	---	376	1379	0.5	---	4.1/---/20	208/1/60	NEW-BASED ON HDY BLOWER COIL

NOTE:

- ALL FAN COILS SHALL BE PRICED AND ORDERED WITH QUICK SHIP OPTION.
- ALL NEW FAN COIL UNITS ARE BASED ON EC HXY-08-875-DM HORIZONTAL DIRECT DRIVE BLOWER COILS.
- ALL NEW FANS C/W 2-ROW HOT WATER HEATING COIL, 4-ROW COOLING COIL AND ECM PROPORTIONAL CONTROL, 3.0 MOTOR, DISCONNECT SWITCH. REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS, ALL DRAIN PANS SHALL BE STAINLESS STEEL, MOTORS ARE TO BE VARIABLE SPEED, EXTERIOR MOUNTED DISCONNECT SWITCH AND THE CABINETS ARE TO BE INSULATED WITH A MINIMUM OF 20MM OF CLOSED CELL INSULATION.
- FRESH AIR IS TO BE PROVIDED INTO RETURN AIR PLENUM OF INDIVIDUAL FAN COILS FROM NEW MAKE UP AIR UNIT.
- ALL FAN COIL UNITS SHALL HAVE THE FOLLOWING POINTS ON THE BAS START/STOP, HYDRO-CARBON DETECTION SENSOR, TEMP SUPPLY, SPEED AND RETURN AIR TEMP. ALL TEMPERATURE CONTROLS AND PROGRAMMING OF THE BUILDING AUTOMATION SYSTEM SHALL BE BY NRC STANDING OFFER CONTRACTOR. ANS WORTH CONTACT AARON DOBSON AT 613-247-7938

ELECTRIC DUCT HEATER SCHEDULE									
TAG	LOCATION	CAPACITY (kW)	AIR FLOWS MIN/MAX (L/S)	EDBT (°C)	LDBT (°C)	MOTOR (V/N)	AMPS	VOLTAGE	REMARKS
24RH001	ROOM 111	5	71/235	-40	10	N	20.8	240/1/60	NEW

NOTES:

- NEW UNIT HEATER 24UNH11 BASED ON A THERMOLEC TER-10-5-240 AN SHALL INCLUDE BUILD IN TEMPERATURE SENSOR AND CONTROLLER.
- DUCT HEATER SHALL BE PROGRAMMED BY NRC STANDING OFFER CONTRACTOR TO SEQUENCE EXPLAINED ON DRAWING M-03 AND IN SPECIFICATIONS.
- NRC STANDING OFFER CONTROLS CONTRACTOR IS ANSWORTH, CONTACT PERSON IS AARON DOBSON AT 613-247-7938

FAN SCHEDULE						
TAG	LOCATION	AIR FLOW (L/S) MAX	S.P. (IN.WG)	V/PH/HZ (HP)	(FLA)	REMARKS
24XF04	111	470	0.7	115/1/60	1.0	EXISTING- CONTROLS TO BE MODIFIED
24SAF08	111	353	0.5	115/1/60	1.0	NEW

NOTE:

- EXISTING EXHAUST FAN (24XF04) IS A GREENHECK INLINE FAN, MODEL SQ-140-VG, VARI-GREEN EC MOTOR 0-10 VDC FAN SPEED INPUT SIGNAL, 1725RPM, NEMA-1 TOGGLE SWITCH.
- NEW SUPPLY FAN (24SAF08) IS BASED ON A GREENHECK INLINE FAN MODEL SQ-95-VG, VARI-GREEN EC MOTOR, 0-10 VDC FAN SPEED INPUT SIGNAL, NEMA-1 TOGGLE SWITCH.
- REFER TO SEQUENCE OF OPERATION ON DRAWING M-03 FOR OPERATION AND SEQUENCING OF FANS.

DIFFUSER AND GRILLE SCHEDULE					
TAG	TYPE	SIZE (MM X MM)	INLET AIR FLOW	REMARKS	
SD1	PERF.	600x600	250#	188 L/S	NEW
SD2	PERF.	600x600	200#	94 L/S	NEW
RG1	PERF.	600x600	N/A	N/A	NEW
EG1	PERF.	600x300	100#	47 L/S	NEW

NOTES:

- ALL NEW DIFFUSERS AND GRILLES SHALL BE CONSTRUCTED OF ALUMINIUM AND ARE COLOUR WHITE.
- BASIS OF DESIGN FOR SUPPLY DIFFUSERS- EH PRICE MODEL PDF DIFFUSER. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.
- BASIS OF DESIGN FOR RETURN AIR GRILLES AND EXHAUST AIR GRILLES- EH PRICE MODEL 10. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

UNIT HEATER SCHEDULE										
TAG	LOCATION	CAPACITY (kW)	AIR FLOWS MIN/MAX (L/S)	EDBT (°C)	LDBT (°C)	FLOW RATE (L/MIN)	MOTOR (V/N)	AMPS	VOLTAGE	REMARKS
24UNH11	ROOM 111	15.3	376/588	82.2	69.8	17.2	Y	1.9	120/1/60	NEW

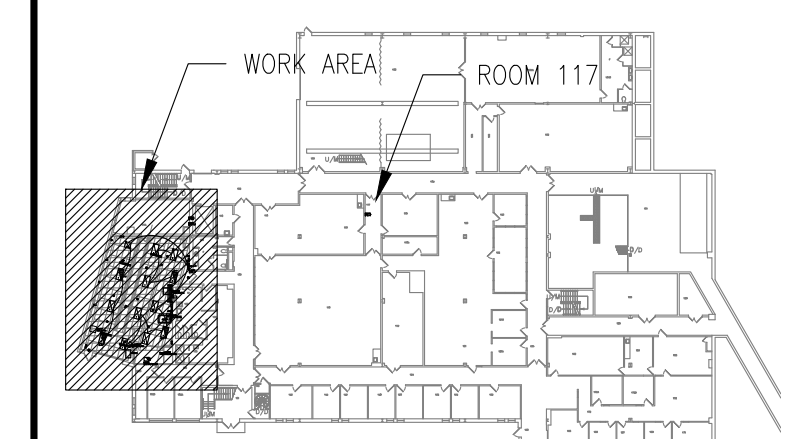
NOTES:

- ALL NEW UNIT HEATER 24UNH11 BASED ON REZOR MODEL 60/85 C/W REMOTE TEMPERATURE SENSOR AND LIMIT SWITCHES.
- UNIT HEATER SHALL BE PROGRAMMED BY NRC STANDING OFFER CONTRACTOR TO SEQUENCE EXPLAINED ON DRAWING M-03 AND IN SPECIFICATIONS.
- NRC STANDING OFFER CONTROLS CONTRACTOR IS ANSWORTH, CONTACT PERSON IS AARON DOBSON AT 613-247-7938

GENERAL NOTES

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KEY PLAN PLAN CLÉ

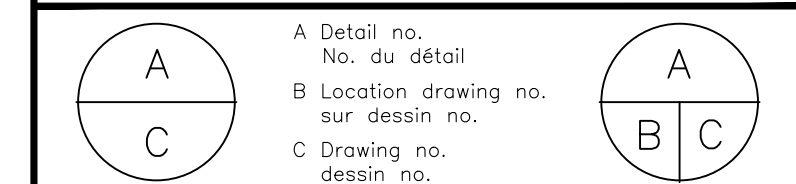


BUILDING M-24- GROUND FLOOR

No.	Date	Revision	By:
1	07 03 2024	ISSUED FOR TENDER	CYC
0	20 10 2023	ISSUED FOR 90% REVIEW	CYC
0	22 09 2023	ISSUED FOR REVIEW	CYC

Date Printed: DD 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.



PROJECT: **BUILDING M-24- ROOM 111- LAB RENOVATIONS PHASE 2 BASE BUILD FIT-UP**

MONTREAL ROAD CAMPUS

drawing: **ELECTRICAL WORK**

designed: **CYC** / conçu: **SEP. 2023**

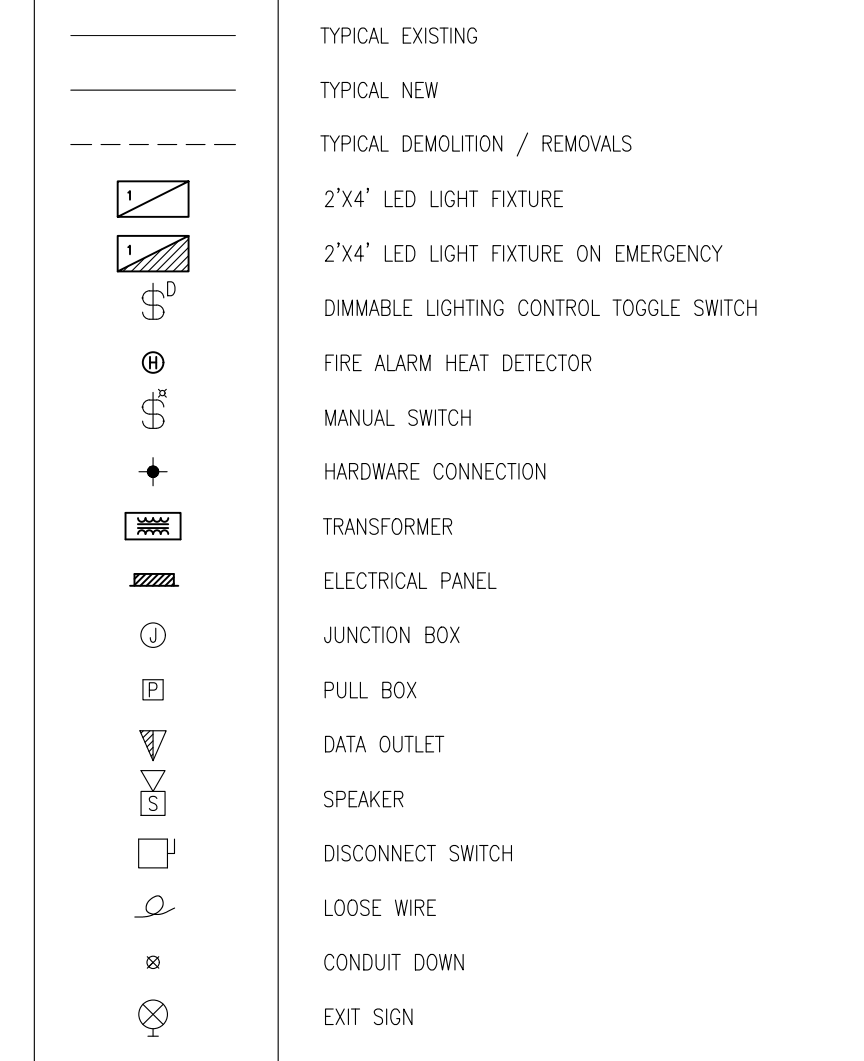
drawn: **CYC** / dessiné: **AS INDICATED**

checked: **KXL** / vérifié: **1 of/de 1**

approved: **FG** / approuvé: **W.O.no.**

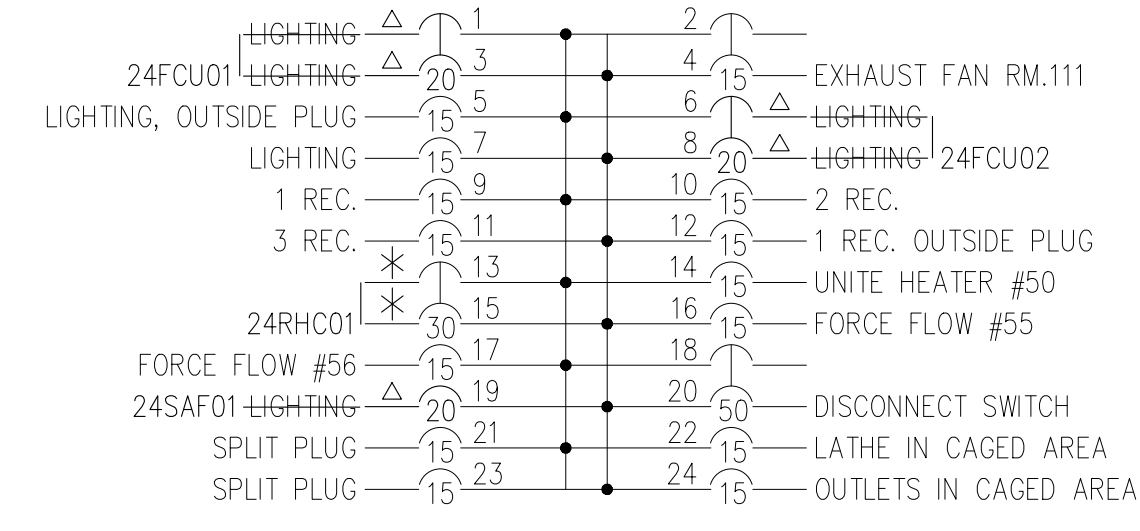
dwg.no.: **6218-E01** / dessin no.:

ELECTRICAL DRAWING SYMBOLS LEGEND

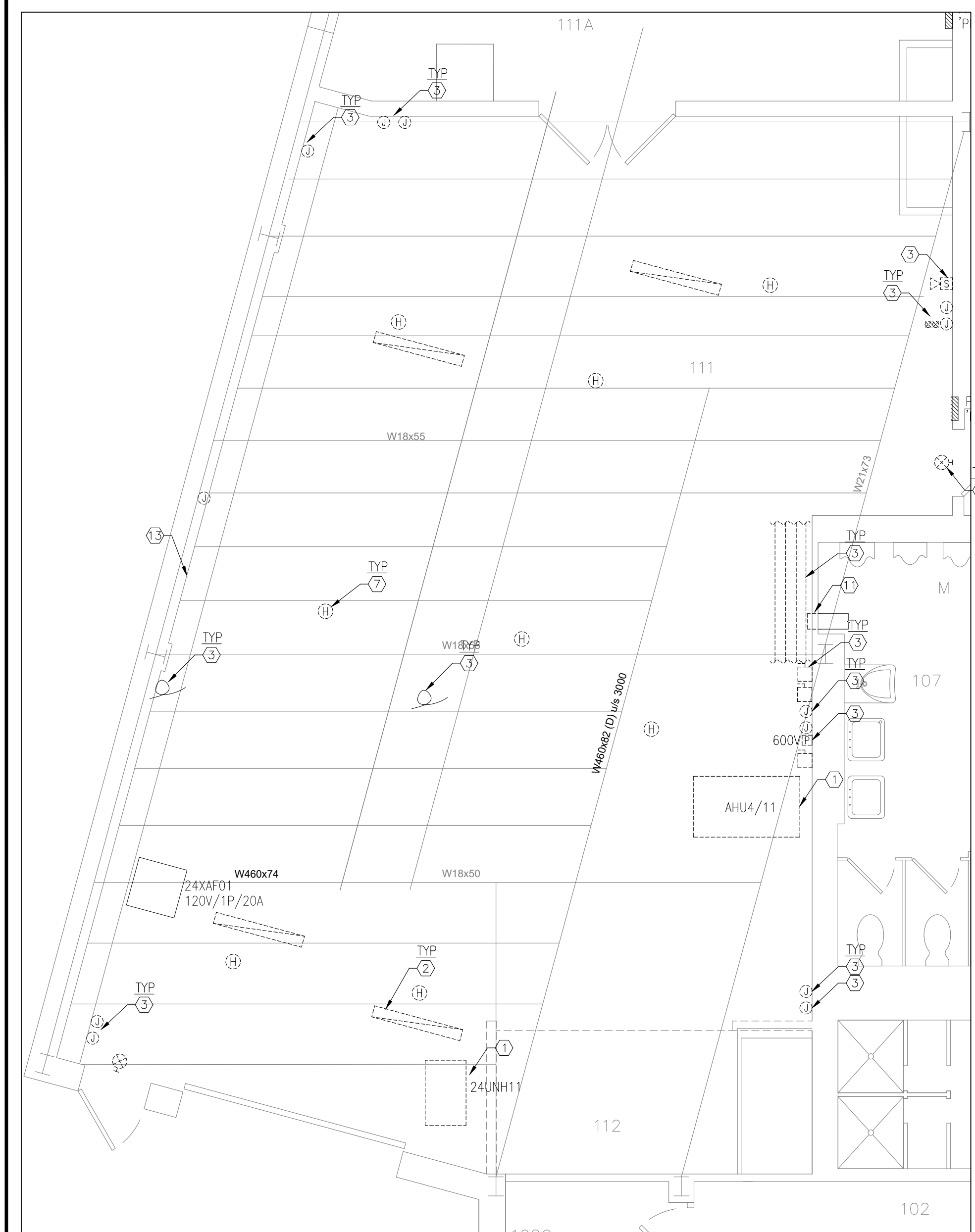


PANEL LP-LJ

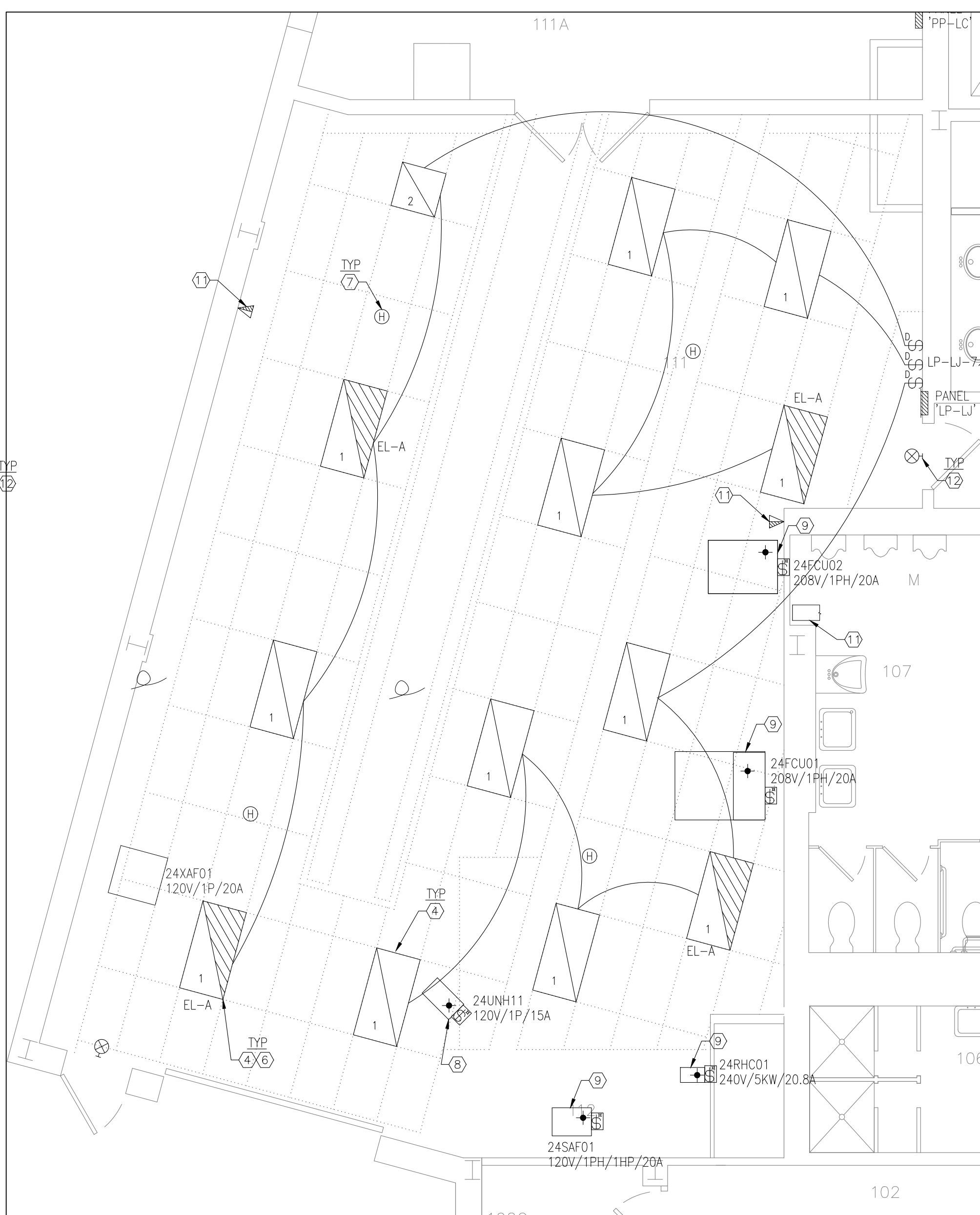
VOLTAGE	120/240
PHASE	3
WIRE	4
RATING AMPS	125A
LOCATION	RM.111
MODEL NO.	XX
FED FROM	DP-LB



- * NEW LOAD ON EXISTING BREAKER
- △ REPLACE EXISTING BREAKER WITH NEW BREAKER AND CONNECT TO NEW LOAD



1 M-24- ROOM 111 PLAN ELECTRICAL DEMOLITION WORK
 E01 SCALE: 1:50

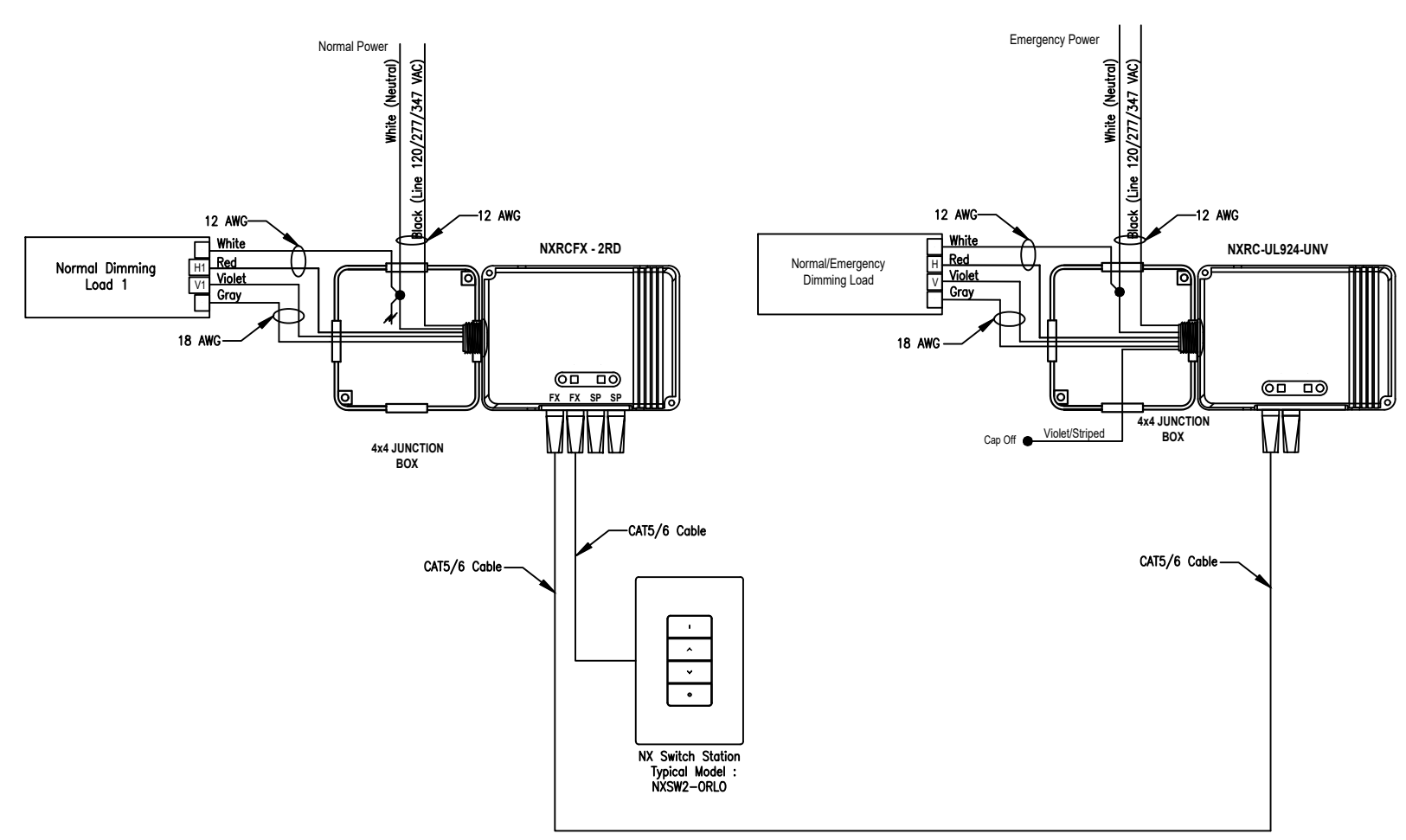


2 M-24- ROOM 111 PLAN ELECTRICAL NEW WORK
 E01 SCALE: 1:50

3 PANEL SCHEDULE
 E01 N.T.S

ELECTRICAL NOTES:

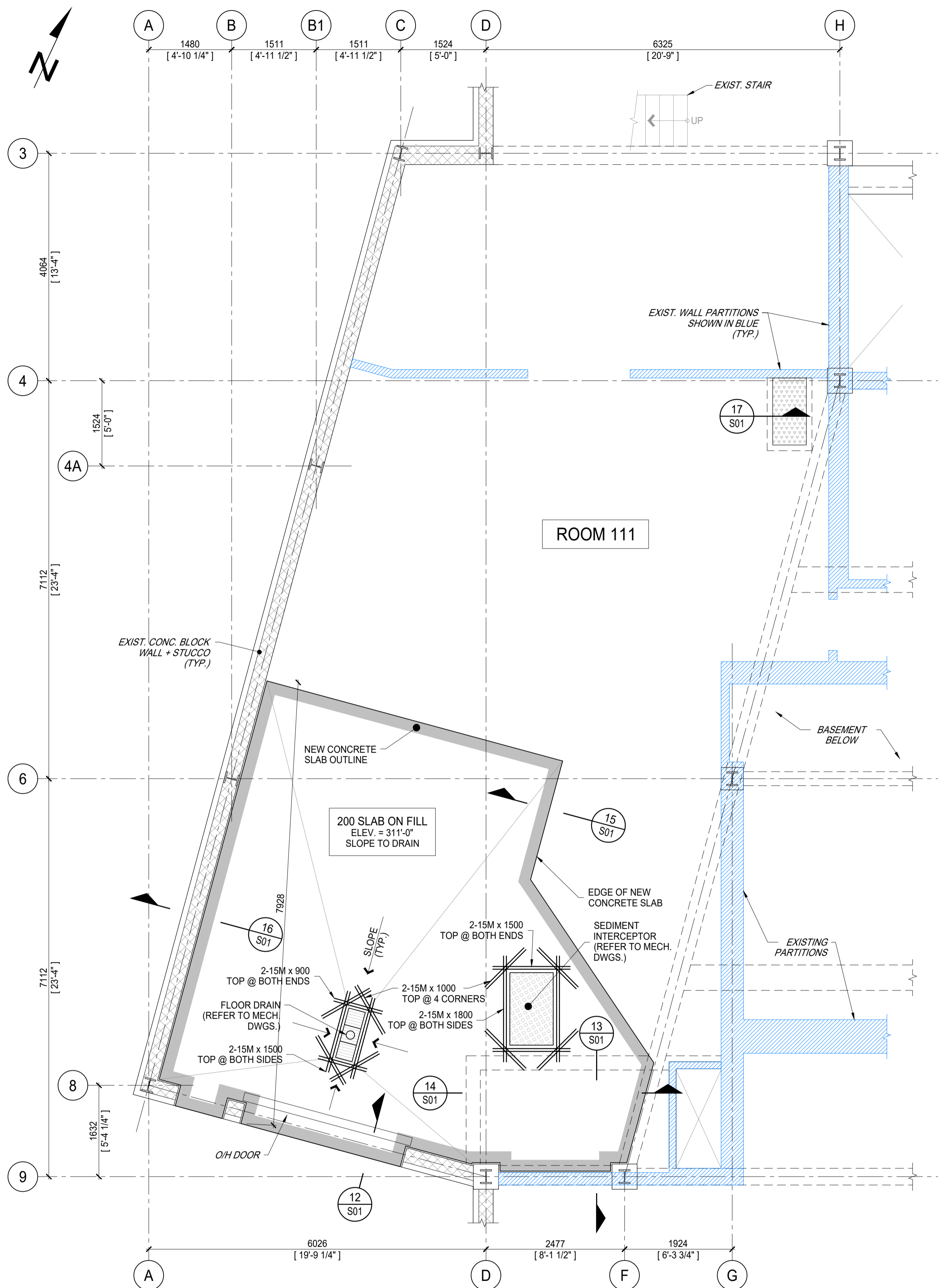
- MECHANICAL EQUIPMENT TO BE REMOVED BY OTHERS. DIV.26 TO DISCONNECT AND REMOVE ALL WIRING AND CONDUITS BACK TO SOURCE AND MAKE SAFE. COORDINATE WORK WITH DIV.23.
- DISCONNECT AND REMOVE ALL TEMPORARY LUMINAIRES, REUSE CIRCUITS FOR NEW LIGHTS IN THE ROOM.
- REMOVE ALL REDUNDANT SURFACE MOUNTED JUNCTION BOX, CONDUITS, DEVICES, ETC. (INCLUDING THE ONES NOT SHOWN ON THE DRAWING) BACK TO SOURCE. FILL OPENINGS UPON JOB COMPLETION. RELOCATE 600V JUNCTION BOX TO THE OTHER SIDE OF THE WALL AND PROVIDE A RECESSED ACCESS PANEL. CLEAN UP LOOSE WIRES ON WALL AND ON THE CEILING, SECURE THEM PROPERLY TO THE STRUCTURE.
- PROVIDE NEW LED LUMINAIRES AND CONNECT TO CIRCUITS AS SHOWN. PANEL 'EL-A' IS LOCATED IN ROOM 117.
- PROVIDE DIMMING SWITCH AND CONNECT TO LUMINAIRES AS SHOWN.
- PROVIDE EMERGENCY MODULE AND CAT6 CABLE TO MAKE THE EMERGENCY LIGHTS WORKING THE SAME WAY AS OTHERS DURING NORMAL CONDITION AND TUNED ON TO 100% DURING POWER OUTAGE.
- PROVIDE T-BAR MOUNTING BRACKET AND REINSTATE HEAT DETECTORS TO NEW CEILING. REMOVE ALL REDUNDANT ONES C/W WIRING AND CONDUITS. PROVIDE VERIFICATION UPON JOB COMPLETION.
- EXISTING UNIT HEATER TO BE REPLACED BY DIV.23. DIV.26 TO DISCONNECT POWER FROM OLD ONE AND RECONNECT TO THE NEW HEATER. PROVIDE MANUAL SWITCH C/W PILOT LIGHT AND LOCKAGE GUARD. STANDARD OF ACCEPTANCE: SQUARE D 6510 KG1A.
- PROVIDE MANUAL SWITCH C/W OVERLOAD, PILOT LIGHT AND LOCK OFF GUARD AND MAKE ALL FINAL CONNECTIONS. COORDINATE WORK ON SITE WITH DIV.23. MANUAL SWITCH STANDARD OF ACCEPTANCE: SQUARE D 2510 FGSP (1 POLE) OR FG6P (2 POLE)
- PROVIDE NEW BREAKERS IN PANEL, TYPE TO MARCH EXISTING. UPDATE PANEL SCHEDULE UPON JOB COMPLETION.
- PROVIDE NEW DATA OUTLET C/W 27mmC BLUE EMT CONDUIT ROUGH-IN TO THE EXISTING TRAY. CUT THE TRAY BACK TO THE OTHER SIDE OF THE ROOM. PATCH THE WALL AND FINISH TO MATCH THE REST.
- REPLACE EXISTING EXIT SIGN WITH NEW PICTOGRAM SIGN AND CONNECT TO EXISTING CIRCUIT. RELOCATE THE SIGN ABOVE DUCTWORK TO MAKE IT VISIBLE.
- RELOCATE EXISTING CONDUIT ALONG THIS WALL TO ABOVE NEW DROP-DOWN CEILING.



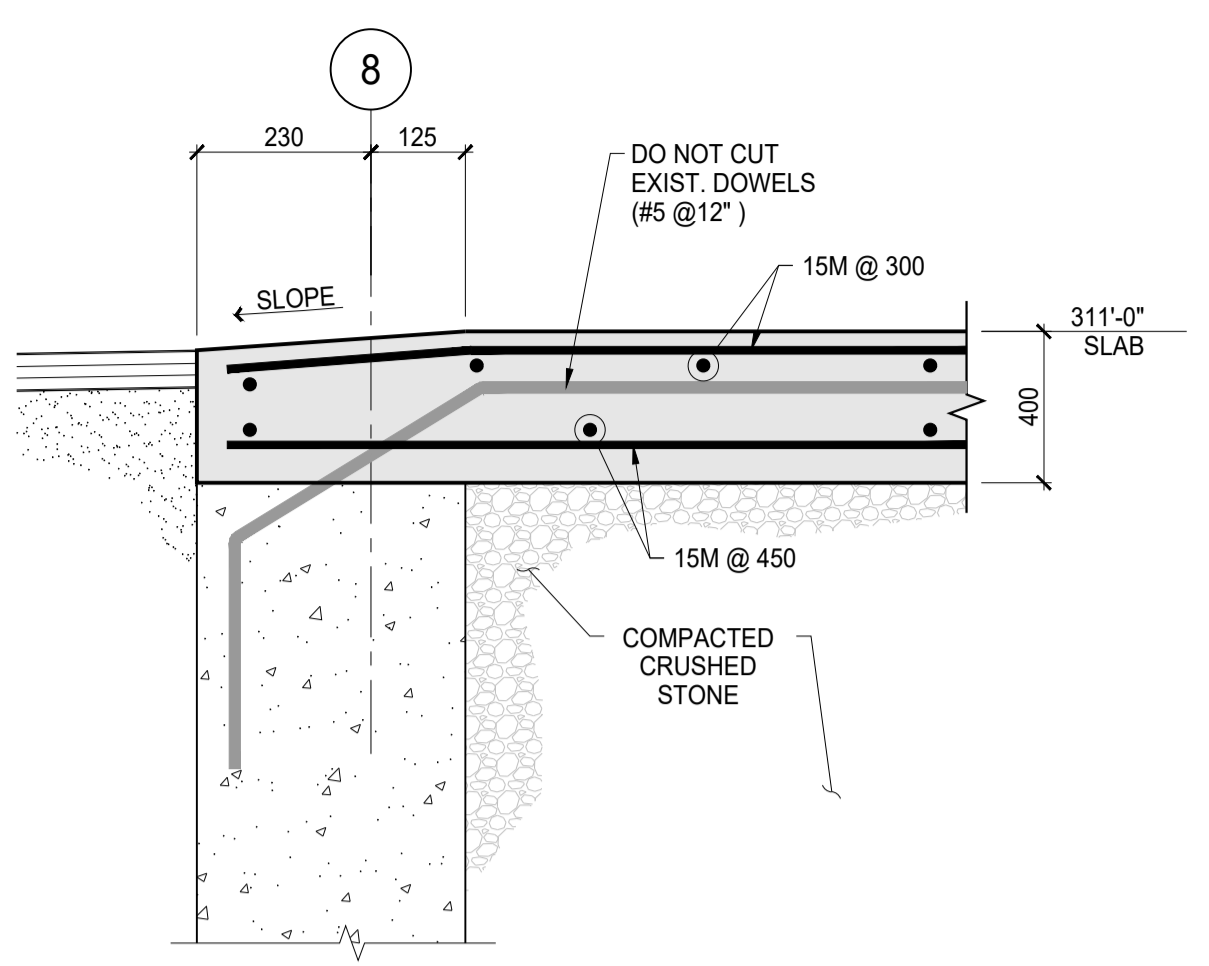
4 TYPICAL LIGHTING CONTROL DIAGRAM
 E01 N.T.S

LUMINAIRE SCHEDULE

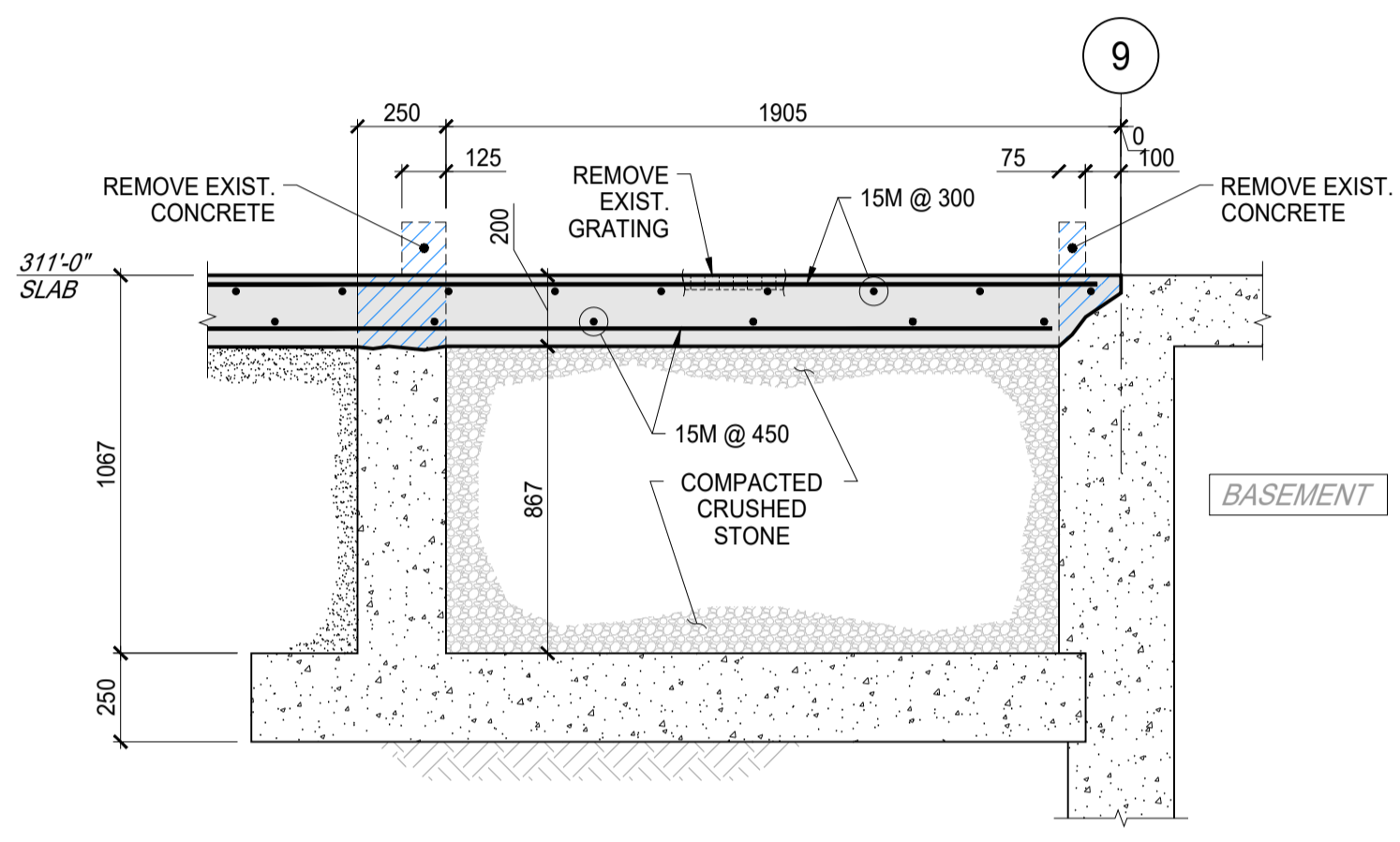
TYPE	LUMINAIRE TYPE	LAMP TYPE	LAMP WATT	LAMP VOLTAGE	MODEL NUMBER
1	2'X4' LED TROFFER	LED	33W	120V	COLUMBIA LCAT24-S-9-40L048G-CRG-EDU
2	2'X2' LED TROFFER	LED	28.5W	120V	COLUMBIA LCAT22-S-9-40L036G-CRG-EDU



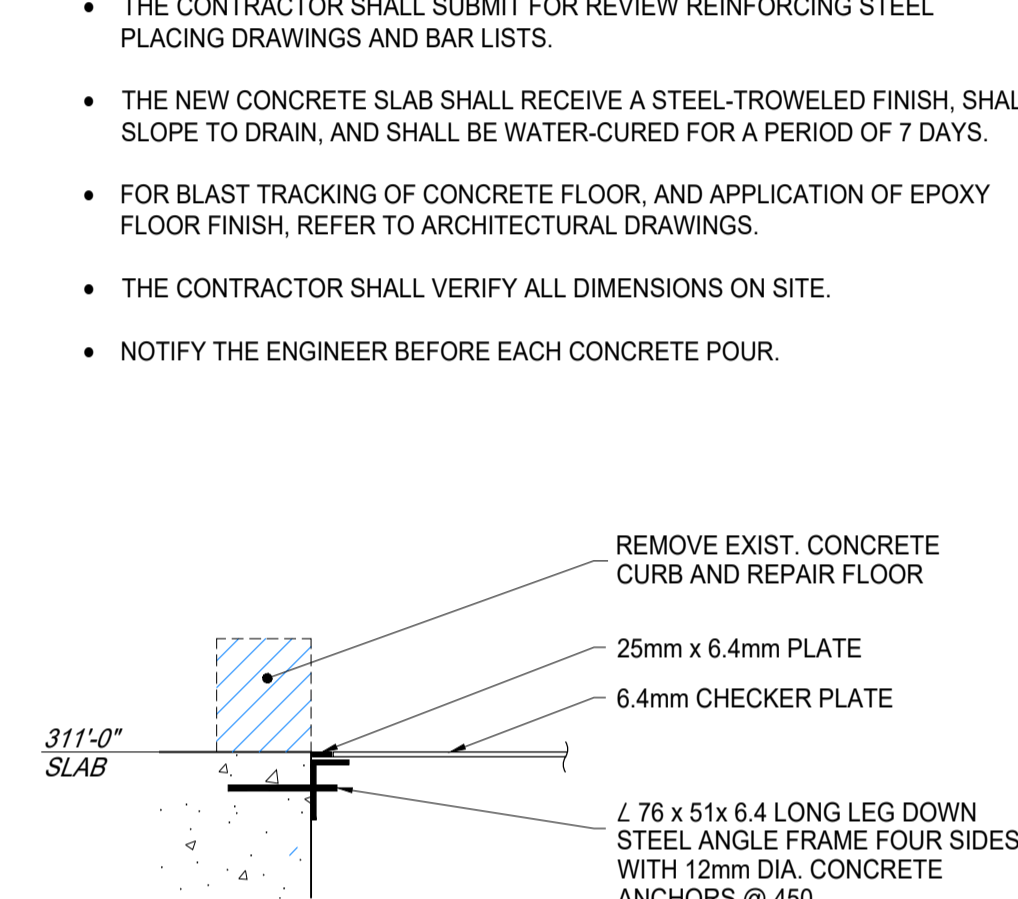
PART GROUND FLOOR PLAN
 SCALE = 1:50



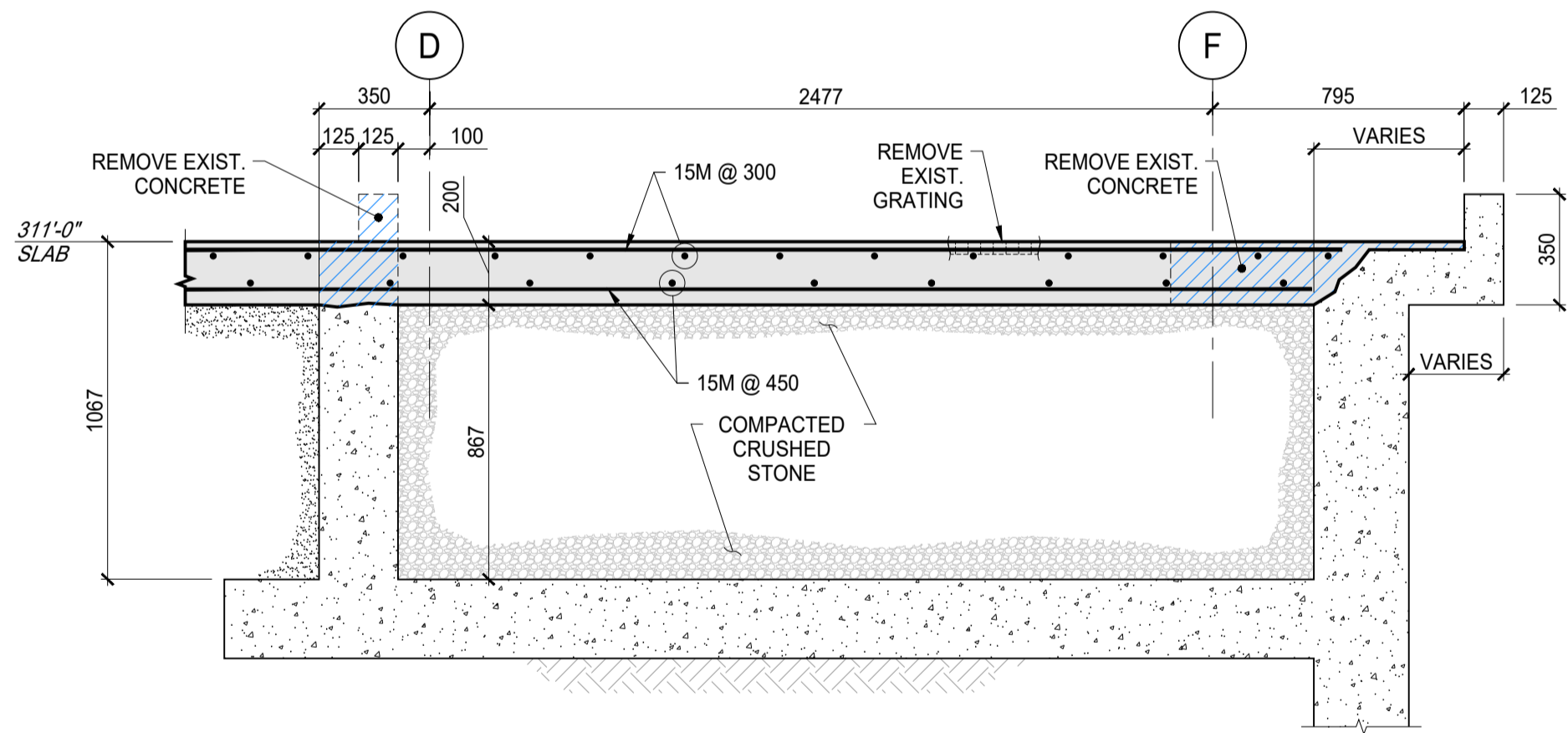
SECTION 12
 S01 SCALE = 1:10



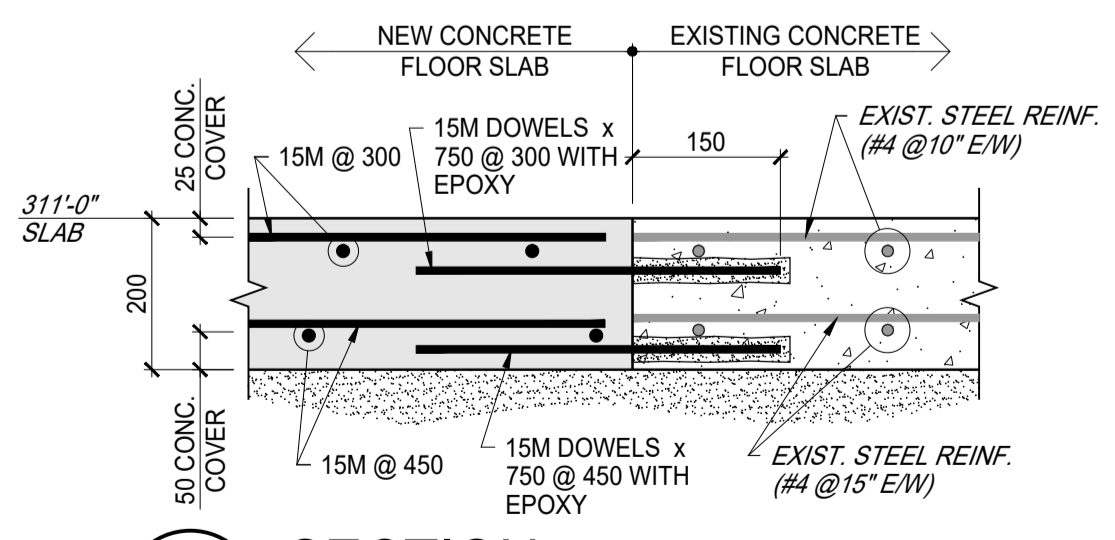
SECTION 13
 S01 SCALE = 1:20



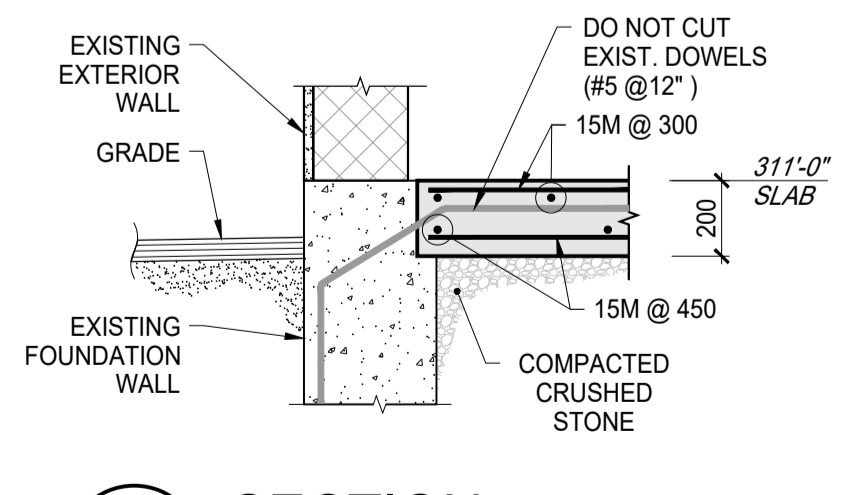
SECTION 17
 S01 SCALE = 1:10



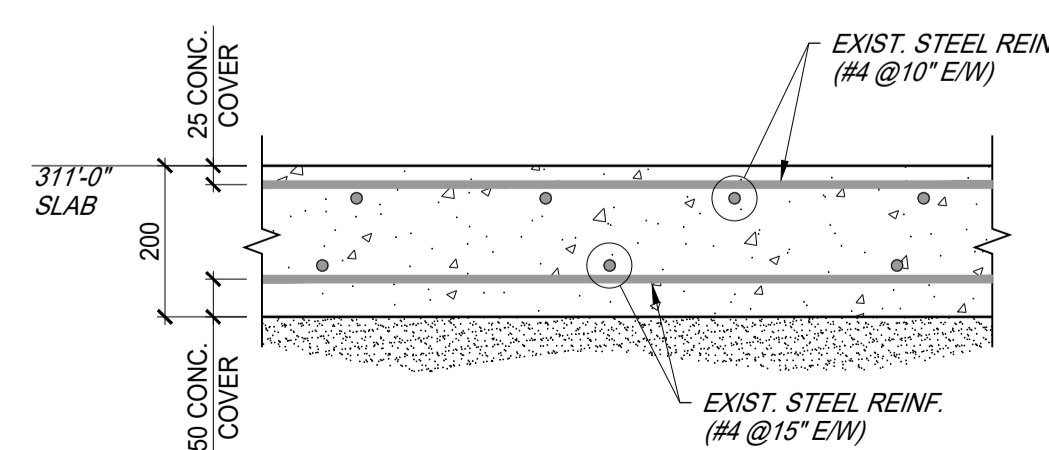
SECTION 14
 S01 SCALE = 1:20



SECTION 15
 S01 SCALE = 1:10 (NEW SLAB AT EXISTING FLOOR SLAB - TYPICAL)



SECTION 16
 S01 SCALE = 1:20 (NEW SLAB AT EXISTING EXTERIOR WALL - TYPICAL)



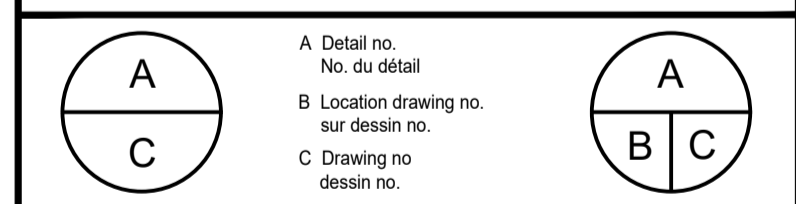
SECTION 11
 S01 SCALE = 1:10 (EXISTING FLOOR SLAB)

GENERAL NOTES:

- DEMOLITION:**
- DEMOLISH AND REMOVE EXISTING SLAB ON FILL, ALONG WITH TOP OF EXISTING PIT, AS SHOWN ON THE DRAWINGS.
- BACKFILL:**
- ALL BACKFILL SHALL BE 0-20 mm GRADED CRUSHED STONE COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY.
 - THE CONTRACTOR SHALL ALLOW FOR FIELD DENSITY TESTS OF COMPACTED BACKFILL BY AN INDEPENDENT INSPECTION COMPANY.
- CONCRETE:**
- ALL CONCRETE WORK SHALL CONFORM TO CSA A23.1-14 AND CSA A23.2-14.
 - CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 25 MPa.
 - THE CONTRACTOR SHALL TAKE A SET OF THREE CONCRETE COMPRESSION TEST CYLINDERS FOR EACH CONCRETE POUR. ONE SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS.
 - REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18-09.
 - CONCRETE COVER:
 - TOP STEEL 25 mm
 - BOTTOM STEEL 50 mm
 - THE CONTRACTOR SHALL SUBMIT FOR REVIEW REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS.
 - THE NEW CONCRETE SLAB SHALL RECEIVE A STEEL-TROWELED FINISH, SHALL SLOPE TO DRAIN, AND SHALL BE WATER-CURED FOR A PERIOD OF 7 DAYS.
 - FOR BLAST TRACKING OF CONCRETE FLOOR, AND APPLICATION OF EPOXY FLOOR FINISH, REFER TO ARCHITECTURAL DRAWINGS.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
 - NOTIFY THE ENGINEER BEFORE EACH CONCRETE POUR.

No.	Date	Revision	By:
2	NOV 21/2023	ISSUED FOR TENDER	R.L.
1	OCT 19/2023	ISSUED FOR 99% REVIEW	R.L.
0	OCT 6/2023	PRELIMINARY	R.L.

- 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		project	
BUILDING M-24 ROOM #111 LAB RENOVATIONS			
MONTREAL ROAD CAMPUS			
drawing		dessin	
STRUCTURAL: PART GROUND FLOOR PLAN AND DETAILS			
designed	compu	date	date
R.L.		SEPTEMBER, 2023	
drawn	dessiné	scale	échelle
D.M.D.		AS SHOWN	
checked	vérifié	sheet	feuille
R.L.		S01	of/ de S01
approved	approuvé	W.O.no.	D.T.no.
dwg. no.		dessin no.	
6218 - S01			