



NRC M58 GROUND LEVEL SOUTH WING RENOVATION

1200 MONTREAL RD., OTTAWA, ONTARIO

GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

BUILDING M-58

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LEGEND

APPLICABLE TO ALL ARCHITECTURAL DRAWINGS :

(XX)	DRAWING NOTE
(X/AXX)	ELEVATION REFERENCE
(X/AXX)	DETAIL NUMBER
(X/AXX)	SECTION DETAIL REFERENCE
(X/AXX)	DRAWING NUMBER
(X/AXX)	DETAIL REFERENCE
(DXXX)	DOOR TAG
(WXXX)	WINDOW TAG
(W-X)	WALL TYPE
(00.00)	ELEVATION HEIGHT
[Solid Line]	EXISTING WALL TO REMAIN
[Dashed Line]	EXISTING WALL TO BE REMOVED
[Thin Solid Line]	NEW WALL
[U]	UNISTRUT CENTRED W/ BEAM
[Circle with X]	SUPPLY DIFFUSER, REFER TO MECHANICAL DRAWINGS
[Square with X]	RETURN GRILL, REFER TO MECHANICAL DRAWINGS
[Square with X]	KITCHEN EXHAUST, REFER TO MECHANICAL DRAWINGS
[Square with X]	LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS
[Square with X]	OCCUPANCY SENSOR, SEE ELECTRICAL DRAWINGS

PARTITION LEGEND

PARTITION WALLS: NEW CONSTRUCTION

PROVIDE ACOUSTIC SEALANT WHERE WALLS ABUTS FLOOR AND ADJACENT SURFACES, TYPICAL.

W-1 INTERIOR PARTITION WALL - 1 HR FIRE RATED
 16mm TYPE X GYPSUM BOARD (PAINTED), EACH SIDE OF 92mm METAL STUD @ 400mm O.C.

NOTES:
 1) PROVIDE FULL-HEIGHT MINERAL FIBER SOUND BATTS BETWEEN METAL STUDS
 2) EXTEND STUDS W/ SLOTTED DEFLECTION TOP TRACK FULL HEIGHT TO U/S OF METAL DECK/CONCRETE SLAB ABOVE APPROX +/-3800mm A.F.F.. EXTEND GYPSUM BOARD FULL HEIGHT

W-2 FURRING WALL
 13mm GYPSUM BOARD PAINTED
 22mm FURRING CHANNELS @ 400mm O.C.

W-3 INTERIOR PARTITION WALL
 13mm GYPSUM BOARD PAINTED
 92mm METAL STUD @ 400mm O.C.
 13mm GYPSUM BOARD PAINTED

NOTES:
 1) PROVIDE FULL-HEIGHT MINERAL FIBER SOUND BATTS BETWEEN METAL STUDS.
 2) EXTEND STUDS W/ SLOTTED DEFLECTION TOP TRACK FULL HEIGHT TO U/S OF METAL DECK/CONCRETE SLAB ABOVE APPROX +/-3800mm A.F.F.. EXTEND GYPSUM BOARD FULL HEIGHT

W-3A INTERIOR PARTITION WALL
 16mm IMPACT RESISTANT GYPSUM BOARD PAINTED
 92mm METAL STUD @ 400mm O.C.
 STUDS THICKNESS INCREASED TO 0.95mm
 13mm GYPSUM BOARD PAINTED

NOTES:
 1) PROVIDE FULL-HEIGHT MINERAL FIBER SOUND BATTS BETWEEN METAL STUDS.
 2) EXTEND STUDS W/ SLOTTED DEFLECTION TOP TRACK FULL HEIGHT TO U/S OF METAL DECK/CONCRETE SLAB ABOVE APPROX +/-3800mm A.F.F.. EXTEND GYPSUM BOARD FULL HEIGHT
 3) PROVIDE WOOD BUMPER RAIL ON LOADING AREA SIDE OF WALL, REFER TO DETAIL.

W-4 INTERIOR PARTITION WALL
 13mm GYPSUM BOARD PAINTED
 152mm METAL STUD @ 400mm O.C.
 13mm GYPSUM BOARD PAINTED

NOTES:
 1) PROVIDE FULL-HEIGHT MINERAL FIBER SOUND BATTS BETWEEN METAL STUDS.
 2) EXTEND STUDS W/ SLOTTED DEFLECTION TOP TRACK FULL HEIGHT TO U/S OF METAL DECK/CONCRETE SLAB ABOVE APPROX +/-3800mm A.F.F.. EXTEND GYPSUM BOARD FULL HEIGHT

W-5 INTERIOR PARTITION WALL
 13mm GYPSUM BOARD PAINTED
 92mm METAL STUD @ 400mm O.C.
 13mm GYPSUM BOARD PAINTED.

EXTEND NEW PARTITION TO UNDERSIDE OF NEW ACT CEILING.

W-6 INTERIOR PARTITION WALL
 13mm GYPSUM BOARD PAINTED
 64mm METAL STUD @ 400mm O.C.
 152 PIPE SPACE
 ADJACENT WALL, ASSEMBLY AS INDICATED

EXTEND NEW PARTITION TO UNDERSIDE OF NEW ACT CEILING.

W-7 1HR FIRE RATED SHAFT WALL - ULC W452 SYSTEM C
 19mm GYPSUM BOARD PAINTED
 102mm "C-H" METAL STUD @ 400mm O.C.
 W/ DEFLECTION OF "L/240"
 76mm MINERAL WOOL BATT INSULATION
 25mm GYPSUM BOARD

EXTEND SHAFT WALL TO UNDERSIDE OF EXISTING METAL DECK



No.	Date	Revision	By:	For:
3	DEC 11, 2015	ISSUED FOR TENDER	KWC	
2	NOV 02, 2015	99% CLIENT REVIEW	KWC	
1	SEPT 24, 2015	66% CLIENT REVIEW	KWC	

kwc 383 Parkdale Avenue, Suite 201
 Ottawa Ontario Canada K1Y 4R4

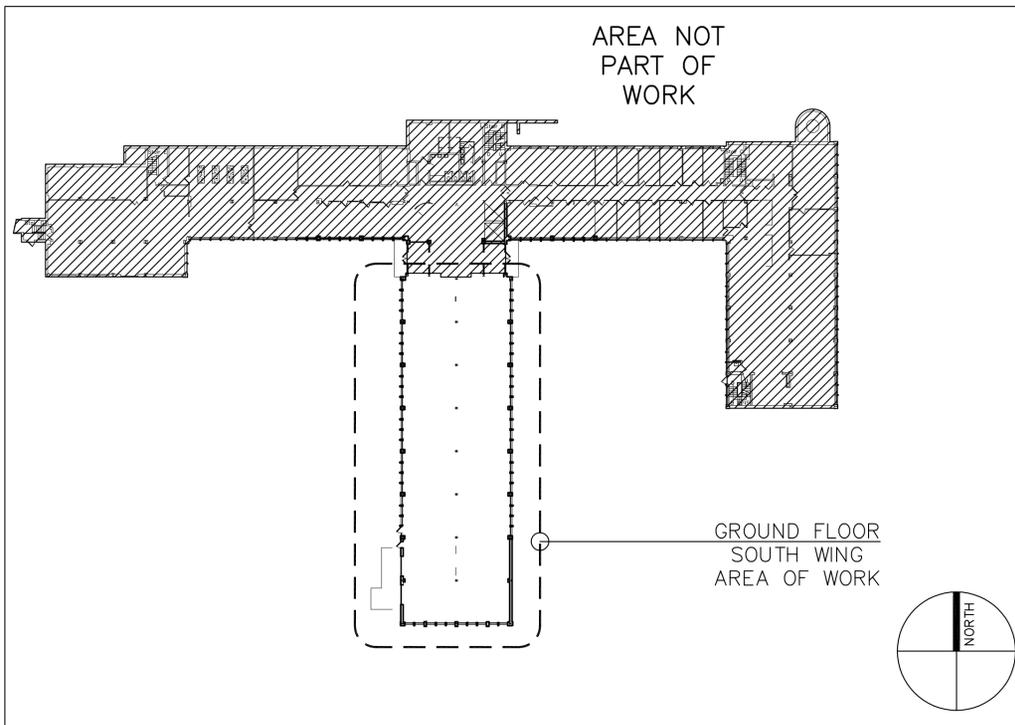
KWC ARCHITECTS INC.

PHONE (613) 238-2117
 FAX (613) 238-6595
 E MAIL kwc@kwc-arch.com

- 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)
(C)	No. du détail	(B/C)
	B Location drawing no. sur dessin no.	
	C Drawing no. dessin no.	

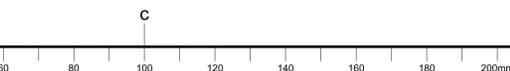
project	project		
NRC M58 GROUND LEVEL SOUTH WING RENOVATION			
1200 MONTREAL ROAD			
drawing	dessin		
COVER SHEET + KEY PLAN			
designed	conçu	date	date
RZ		07-2015	
drawn	dessiné	scale	échelle
RZ/EM		AS SHOWN	
checked	vérifié	sheet	feuille
MM		1 of/de	13
approved	approuvé	W.O.no.	D.T.no.
MM		851909	
dwg.no.	dessin no.		
5083-A00			

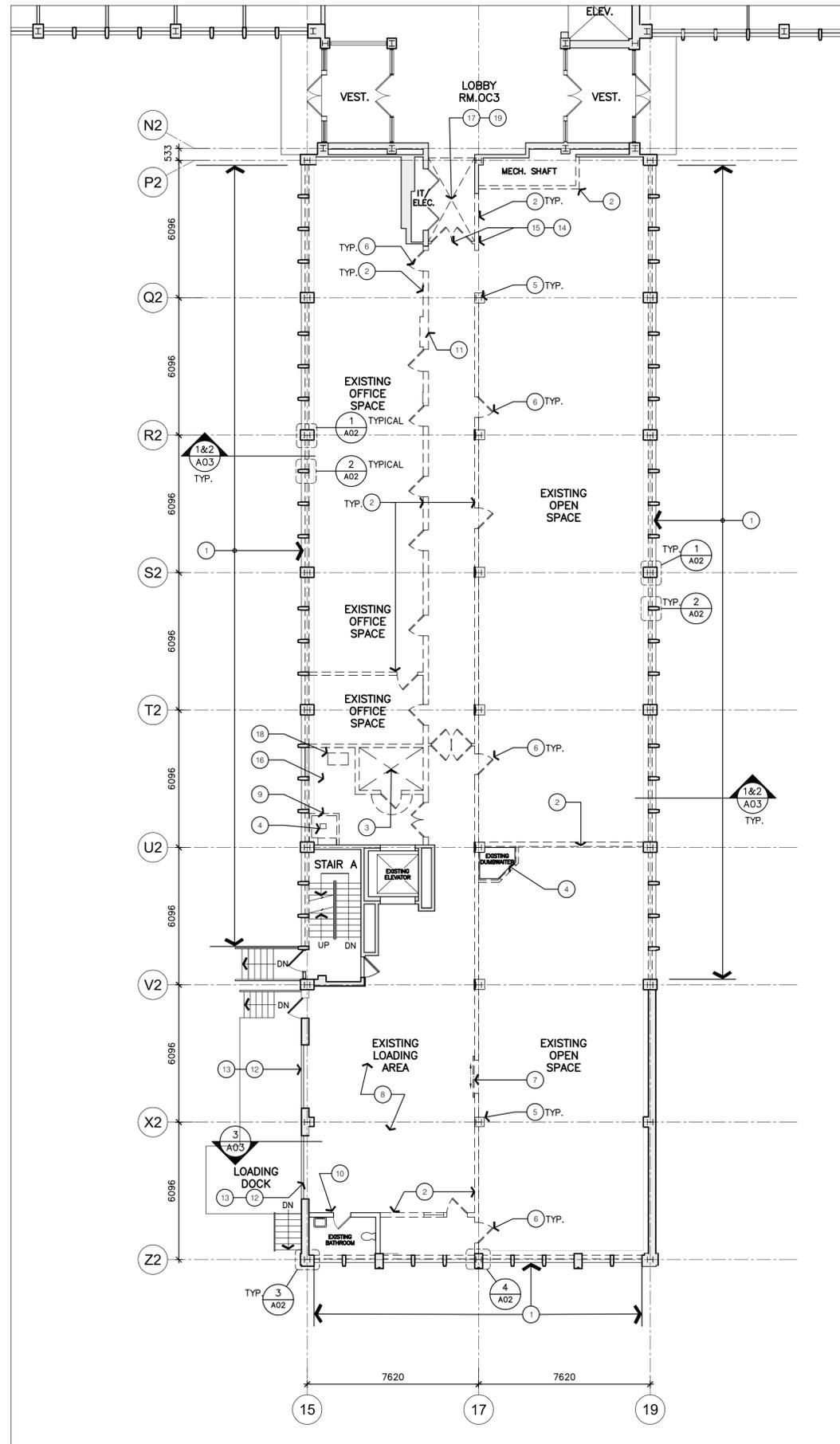


1 GROUND FLOOR KEY PLAN
 A00 1:500

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	PCT	PAINTED CONCRETE TOPPING
AFF	ABOVE FINISHED FLOOR	PL	PLASTER
ALP	ALUMINUM PANEL	P.LAM	PLASTIC LAMINATE
CMU	CONCRETE MASONRY UNIT	PS	PRESSED STEEL
CPT	CARPET	PT	PAINT
CONC	CONCRETE	REV	REVERSE
C/W	COMPLETE WITH	RCP	REFLECTED CEILING PLAN
DMNT	DEMOUNTABLE	RSF	RESILIENT SHEET FLOORING
DWG	DRAWING	RWB	RESILIENT WALL BASE
(E)	EXISTING	SIM	SIMILAR
EH	EXHAUST LOUVRE WITHIN WINDOW FRAME, SEE MECHANICAL DRAWINGS	SP	SPRINKLER HEAD
EPST	EXPOSED STEEL STRUCTURE/DECKING	TG	TEMPERED GLASS
FFL	FINISHED FLOOR LEVEL	TYP	TYPICAL
FPS	SPRAYED ON FIRE PROOFING	UR	URETHANE
GB	GYPSUM BOARD	U/S	UNDERSIDE
GL	GLAZING	VCT	VINYL COMPOSITE TILE
HM	HOLLOW METAL	VWB	VINYL WALL BASE
IB	INSULATED BACKPAN WITH ANODIZED ALUMINUM COVER.	W/	WITH
L.I.T	LAY IN TILE CEILING	WD	WOOD
MR	MARBLE WALL BASE	WRG	WALL MOUNTED RETURN GRILL, SEE MECHANICAL DRAWINGS
N.I.C.	NOT IN CONTRACT		
NTS	NOT TO SCALE		
O.C.	ON CENTER		





1 DEMOLITION PLAN
A01 1:125

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DRAWING NOTES – SHEET A01

THESE NOTES APPLY TO DRAWING SHEET A01 ONLY

- DEMOLISH AND REMOVE EXISTING ALUMINUM FRAMED WINDOW AND FLASHINGS, REFER TO DETAILS. CAREFULLY REMOVE AND SALVAGE 10 EXISTING STONE WINDOW SILLS AND DELIVER TO DEPARTMENTAL REPRESENTATIVE.
- DEMOLISH AND REMOVE EXISTING TERRA-COTTA BLOCK WALL AND PLASTER FINISH FROM TOP OF EXISTING FLOOR SLAB TO UNDERSIDE OF METAL DECK ABOVE, APPROXIMATE EXISTING WALL THICKNESS IS 200MM, TYPICAL.
- DEMOLISH AND REMOVE EXISTING 150MM +/- HIGH RAISED CONCRETE SLAB AND ALIGN WITH EXISTING ADJACENT SLAB. ALSO REMOVED SLOPED CONCRETE APRON AT DOOR INTO ROOM.
- EXISTING FLOOR/CEILING OPENING TO BE FILLED IN. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- DEMOLISH AND REMOVE EXISTING TERRA-COTTA BLOCK AND PLASTER FINISH COLUMN ENCLOSURE FROM TOP OF EXISTING FLOOR SLAB TO UNDERSIDE OF DECK ABOVE, TYPICAL.
- DEMOLISH AND REMOVE EXISTING HOLLOW METAL DOOR FRAME, WOOD DOOR AND DOOR HARDWARE, TYPICAL.
- DEMOLISH AND REMOVE EXISTING ALUMINUM SLIDING ENTRANCE DOORS.
- REMOVE EXISTING PAINT FROM CONCRETE FLOOR SLAB, TYPICAL.
- DEMOLISH AND REMOVE EXISTING 100mm WIDE X 150mm HIGH CONCRETE CURB
- EXISTING WALLS AND DOOR TO REMAIN.
- EXISTING MECHANICAL CHASE WALLS TO BE DEMOLISHED AND REMOVED.
- EXISTING OVERHEAD DOOR TO REMAIN.
- EXISTING WINDOW ASSEMBLY ABOVE DOOR TO BE REMOVED.
- SAW CUT TERRAZZO BASE FOR CLEAN REMOVAL OF BASE ADJACENT DOORS THAT ARE BEING REMOVED EXISTING TERRA COTTA WALL AND DOUBLE DOORS TO BE DEMOLISHED AND REMOVED. SALVAGE EXISTING HOLD OPEN DOOR CONTACTS FOR REUSE ON NEW DOORS.
- DEMOLISH AND REMOVE EXISTING CERAMIC TILE WALL FINISH ON ALL WALLS OF THIS ROOM FROM FLOOR TO +/-1600mm HEIGHT.
- DEMOLISH AND REMOVE EXISTING DROPPED ACOUSTIC TILE CEILING AND GRID SYSTEM.
- DEMOLISH AND REMOVE EXISTING 550mm X 760mm X 310mm HIGH CONCRETE CURB.
- EXISTING TERRAZZO FLOOR FINISH AND BASE.

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Ontario Association of Architects
 License 5086

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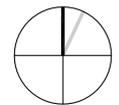
A Detail no. No. du détail
 B Location drawing no. sur dessin no.
 C Drawing no. dessin no.

project	NRC M58 GROUND LEVEL SOUTH WING RENOVATION		
drawing	DEMOLITION FLOOR PLAN		
designed	RZ	conçu	07-2015
drawn	RZ/EM	dessiné	AS SHOWN
checked	MM	vérifié	sheet 2 of/de 13
approved	MM	approuvé	W.O.no. 851909
dwg.no.	5083-A01		

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Date Printed: _____ Date imprimée: _____

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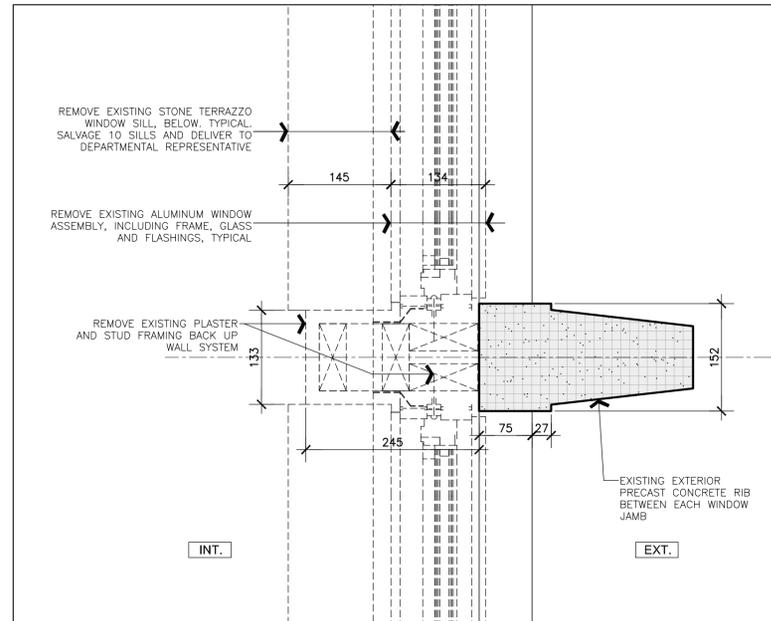
A	A Detail no.	A
	No. du détail	
	B Location drawing no. sur dessin no.	
C	C Drawing no. dessin no.	B/C

project: **NRC M58 GROUND LEVEL SOUTH WING RENOVATION**

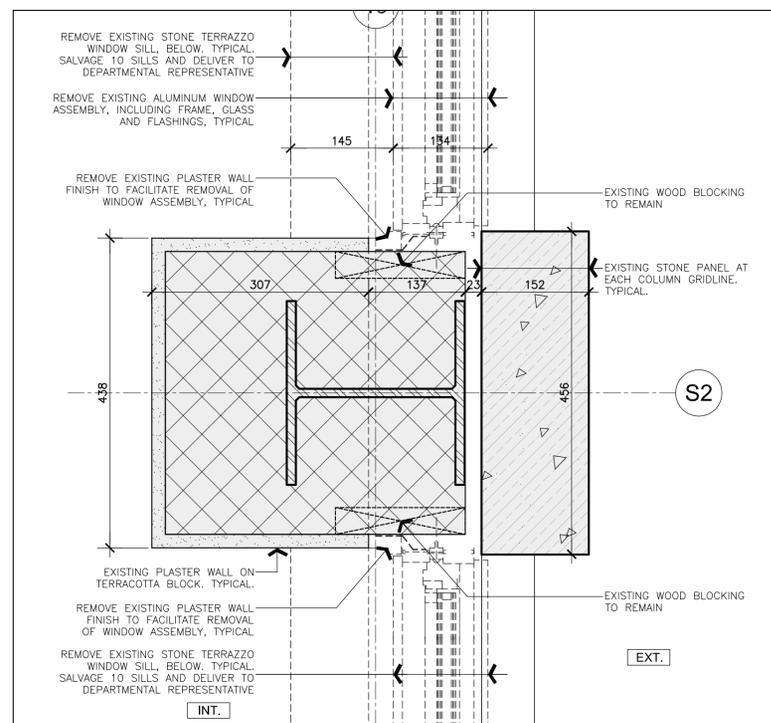
1200 MONTREAL ROAD

drawing: **PLAN DETAILS - DEMOLITION**

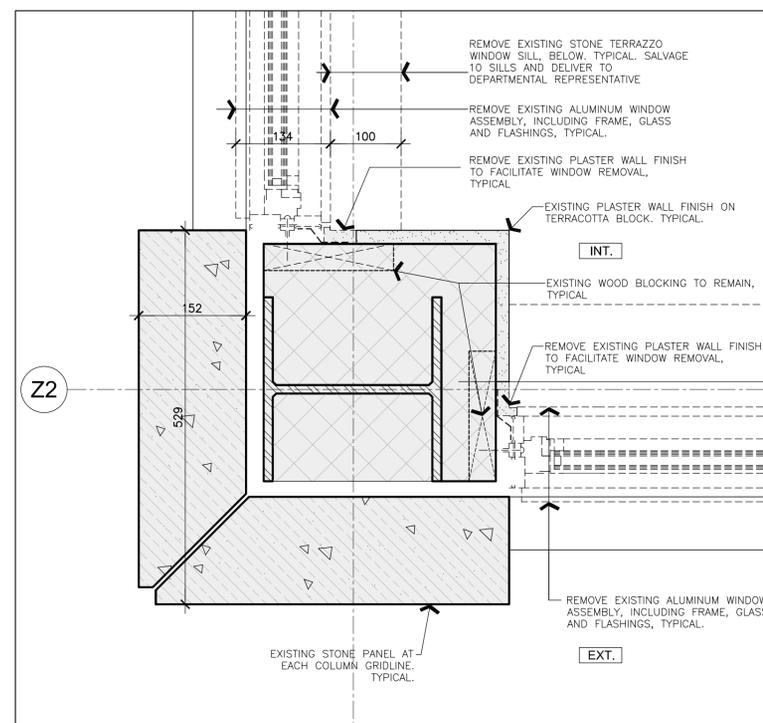
designed	RZ	conçu	date	07-2015	date
drawn	RZ/EM	dessiné	scale	AS SHOWN	échelle
checked	MM	vérifié	sheet	3 of/de 13	feuille
approved	MM	approuvé	W.O.no.	851909	D.T.no.
dwg.no.	5083-A02	dessin no.			



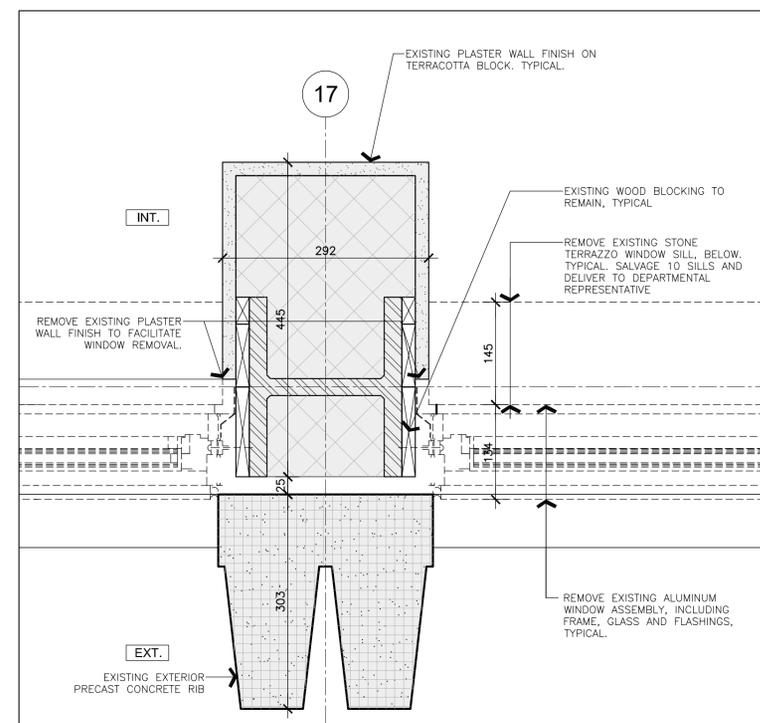
2 DEMOLITION PLAN DETAIL, TYPICAL
 A02 1:5



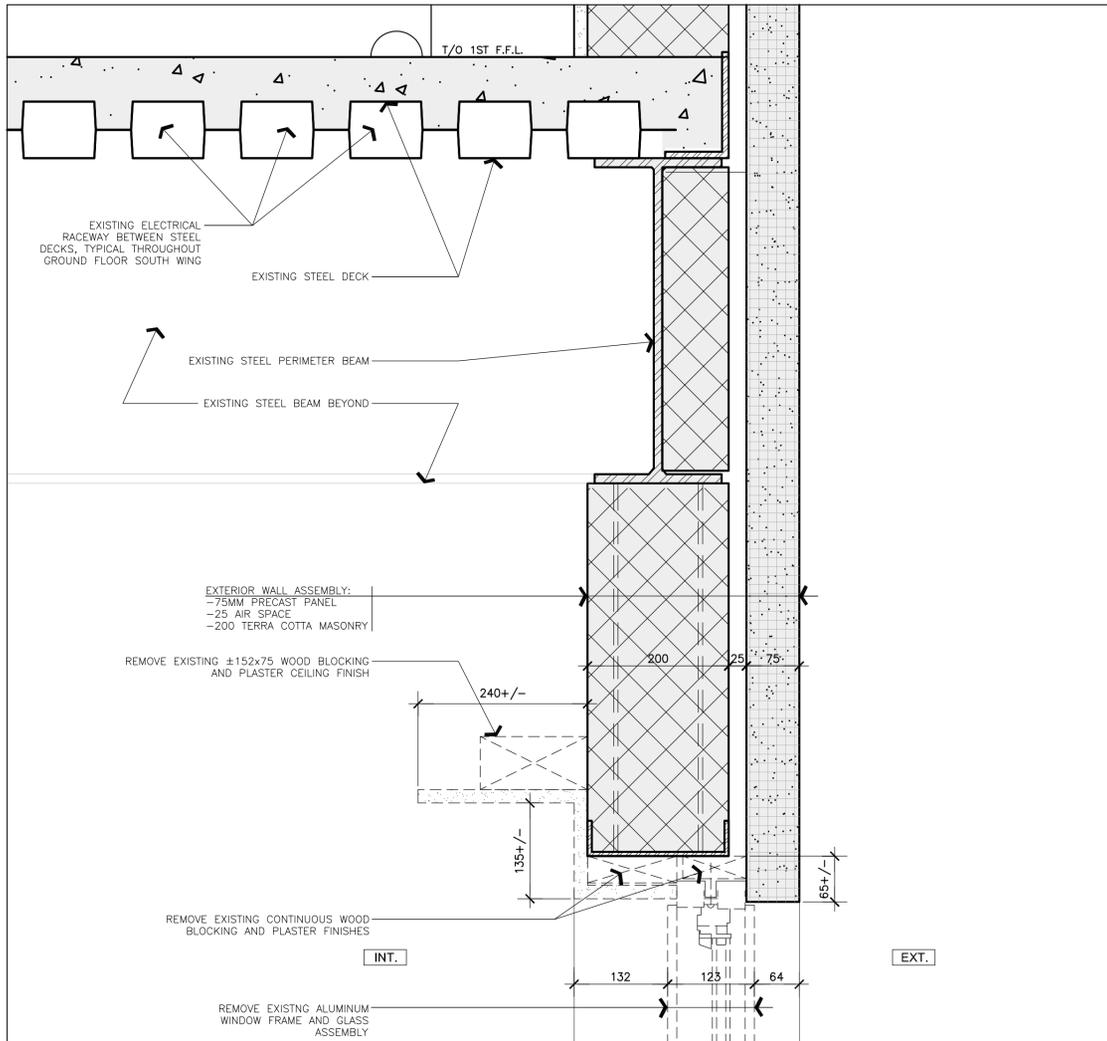
1 DEMOLITION PLAN DETAIL, TYPICAL
 A02 1:5



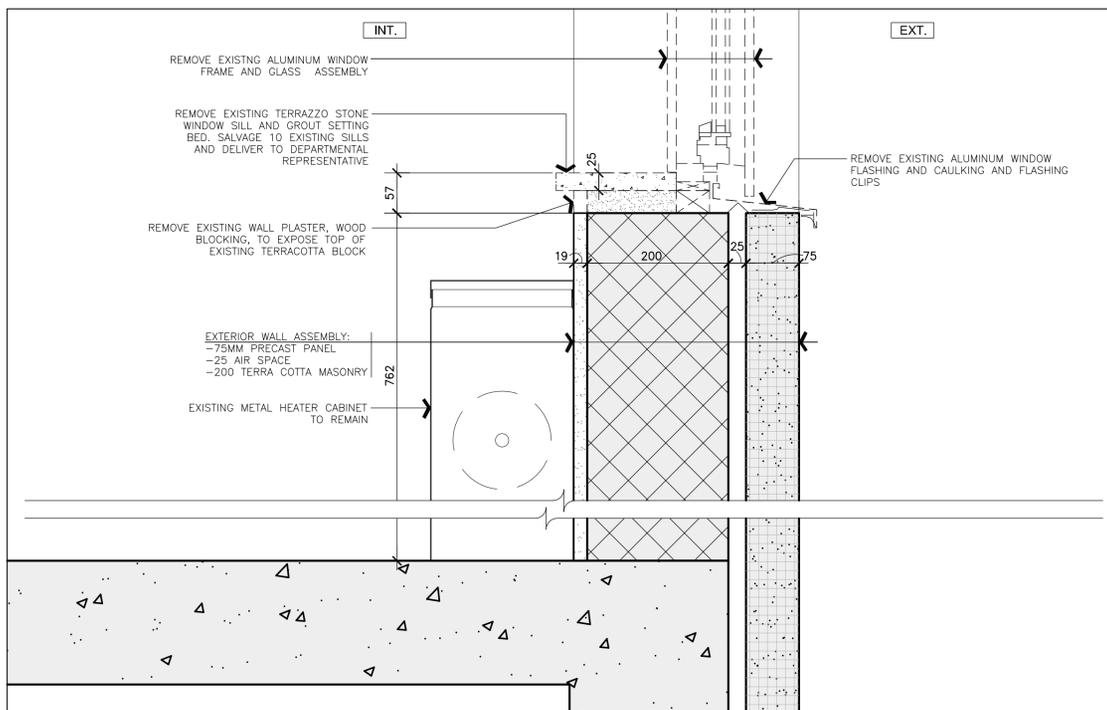
3 DEMOLITION PLAN DETAIL, TYPICAL
 A02 1:5



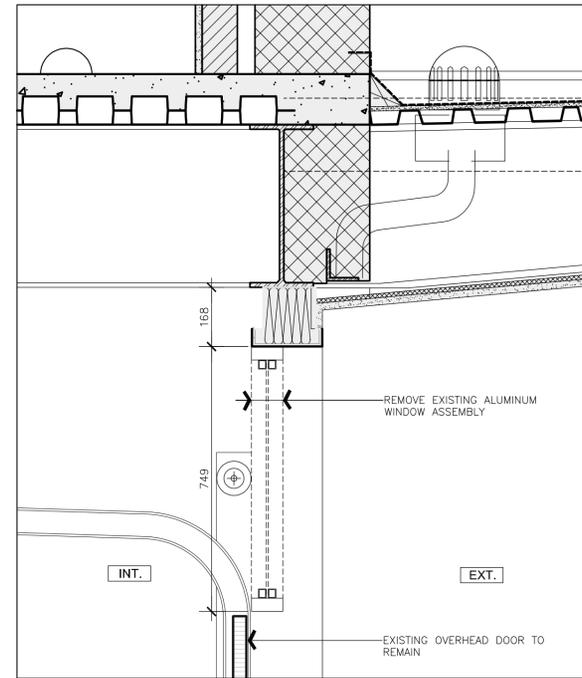
4 DEMOLITION PLAN DETAIL, TYPICAL
 A02 1:5



2 WINDOW HEAD SECTION DETAIL DEMOLITION, TYPICAL
 A03 1:5



1 WINDOW SILL SECTION DETAIL DEMOLITION, TYPICAL
 A03 1:5



3 SECTION DETAIL DEMOLITION
 A03 1:10

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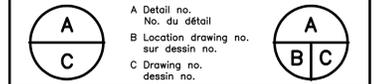
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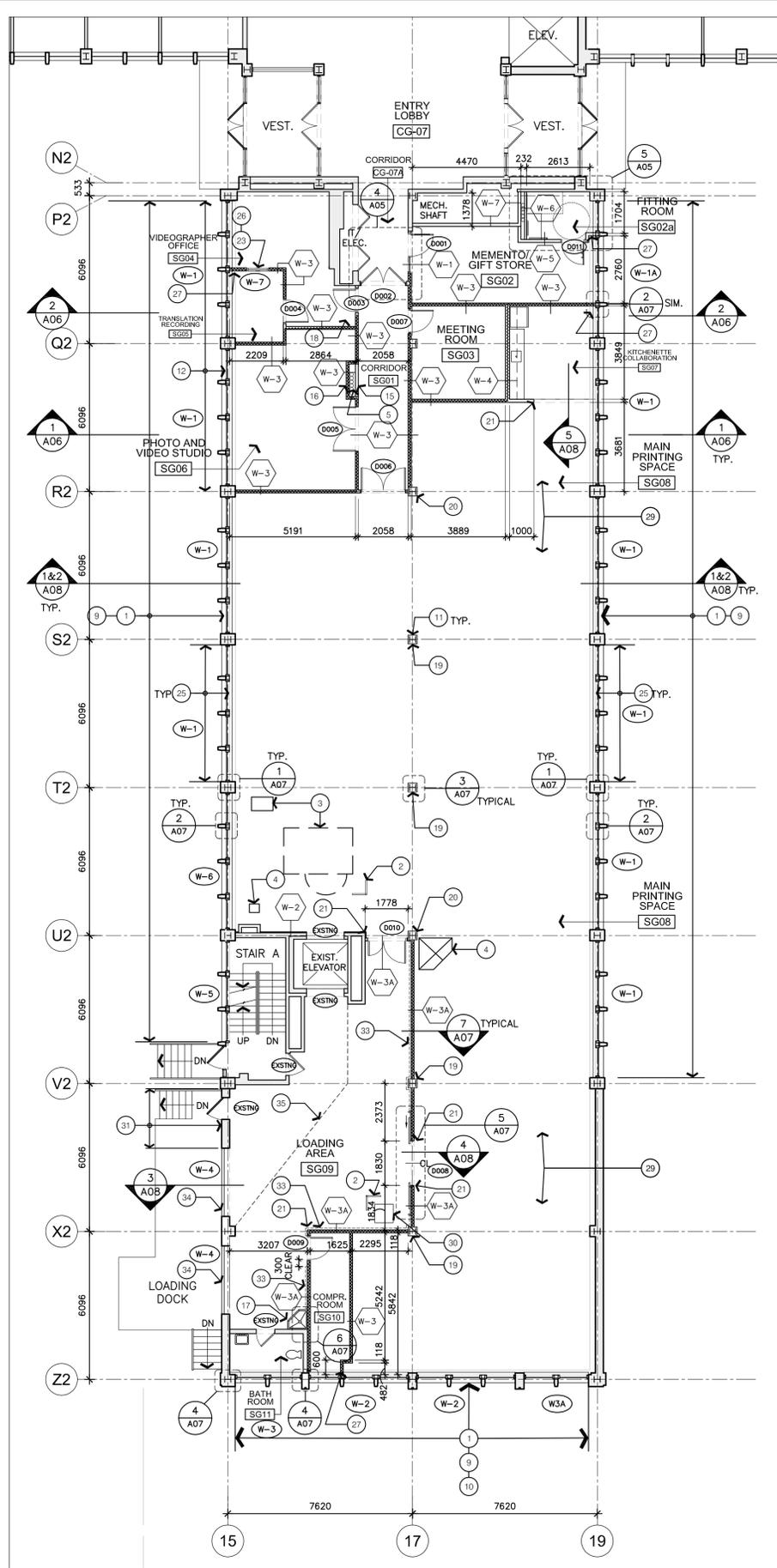
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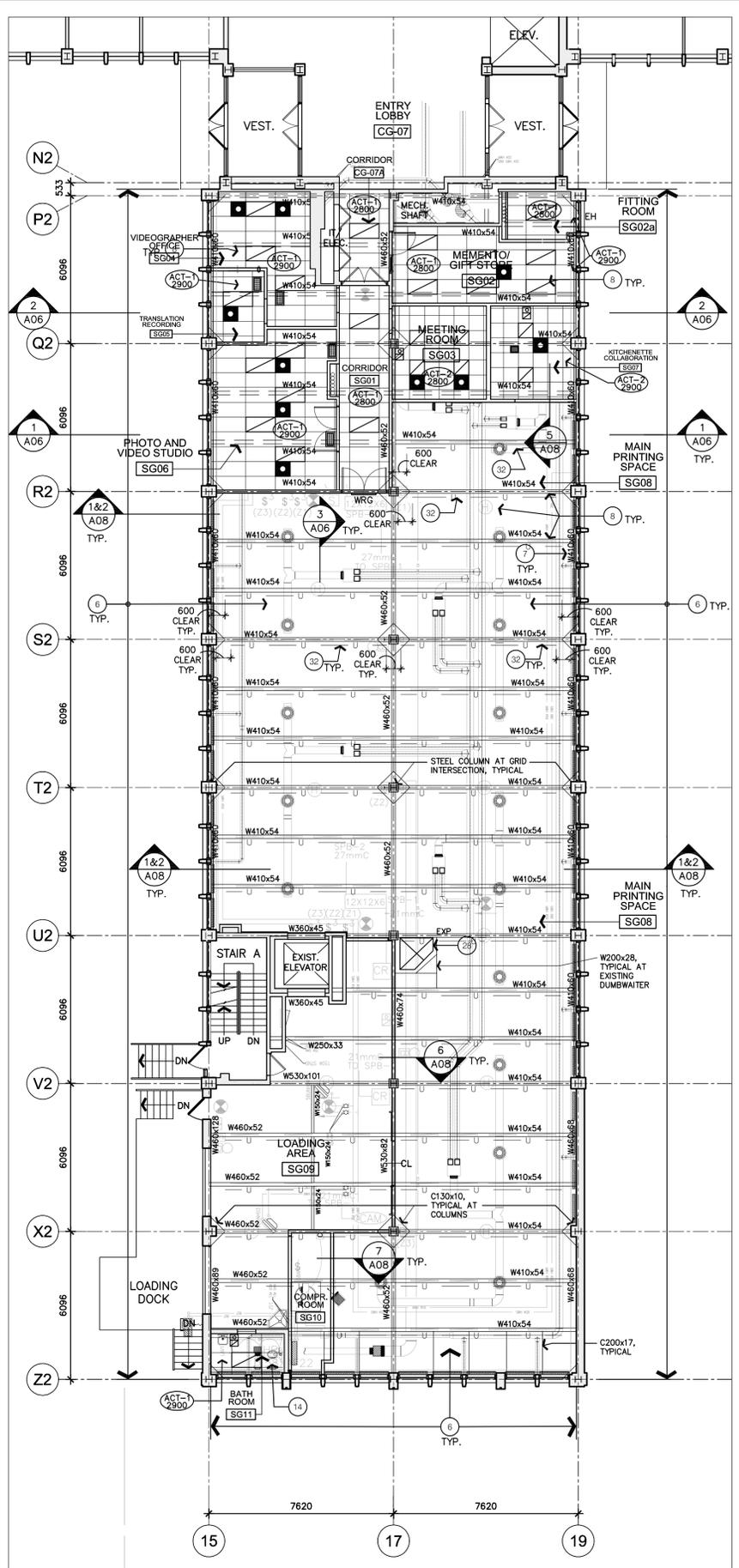
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project		project	
NRC M58 GROUND LEVEL SOUTH WING RENOVATION			
1200 MONTREAL ROAD			
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SECTION DETAILS - DEMOLITION			
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RZ		07-2015	
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MM		4	13
approved	approuvé	W.O.no.	D.T.no.
MM		851909	
dwg.no.		dessin no.	
5083-A03			



1 NEW FLOOR PLAN LAYOUT
A04 1:125



2 NEW RCP PLAN LAYOUT
A04 1:125

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DRAWING NOTES - SHEET A04

THESE NOTES APPLY TO DRAWING SHEET A04 ONLY

- NEW ALUMINUM FRAMED FIXED WINDOW, REFER TO DETAILS.
- INDICATES NEW 600 X 600 LONG CORNER FLOOR REPAIRABLE STEEL TUBE GUARDRAIL, PAINT FINISH. REFER ALSO TO DETAILS.
- PROVIDE NEW FLOOR PREP TO EXISTING CONCRETE SLAB WHERE RAISED CONCRETE SLAB/CURB WAS DEMOLISHED AND REMOVED.
- EXISTING FLOOR OPENING TO BE FILLED IN. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- EXISTING MECHANICAL PIPE CHASE.
- NEW SPRAYED ON FIRE-PROOFING TO EXISTING STEEL BEAMS AND DECKING THROUGHOUT, PROVIDE NEW PAINT FINISH TO NEW FIRE-PROOFING.
- NEW SPRAYED ON FIRE-PROOFING TO EXISTING STEEL BEAMS, METAL DECKING AND PERIMETER STEEL BEAMS (ALONG EXTERIOR).
- PROVIDE NEW SPRAYED ON FIRE-PROOFING TO EXISTING STEEL BEAMS AND METAL DECKING ABOVE NEW DROPPED CEILING.
- PROVIDE NEW ROLLER BLIND AT WINDOW HEAD, TYPICAL. REFER ALSO TO SPECIFICATIONS.
- ROLLER BLIND NOT REQUIRED AT WINDOWS AT BATHROOM RM. 111.
- NEW SPRAYED ON FIRE-PROOFING TO EXISTING STEEL COLUMNS AND GYPSUM BOARD ENCLOSURE, TYPICAL. REFER ALSO TO DETAILS.
- ROLLER BLINDS FOR WINDOWS BETWEEN GRIDS P2 AND R2 ARE BLACK OUT TYPE.
- NOTE NOT USED.
- ALIGN NEW CEILING WITH NEW WINDOW MULLION (LOWER MULLION BELOW INSULATED BACKPAN PANEL).
- W-3 PARTITION ON CORRIDOR SIDE TO EXTEND TO 100MM ABOVE NEW ACT CEILING.
- W-3 PARTITION AROUND MECHANICAL PIPING ON RM 106 SIDE TO EXTEND TO UNDERSIDE OF DECK PER PARTITION LEGEND.
- PROVIDE NEW FLOOR MOUNTED SLOP SINK, REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
- PROVIDE 610mm CLEAR BETWEEN DOOR FRAME AND WALL.
- PROVIDE STAINLESS STEEL CORNER GUARD AT ALL FOUR CORNERS.
- PROVIDE STAINLESS STEEL CORNER GUARD AT THREE CORNERS.
- PROVIDE STAINLESS STEEL CORNER GUARD AT TWO CORNERS.
- PROVIDE STAINLESS STEEL CORNER GUARD.
- WINDOW SILL AT 915MM AFF.
- PROVIDE NEW QUARTZ SOLID SURFACE WINDOW SILL, 3 HORIZONTAL PIECES PER OVERALL WINDOW WIDTH FOR WINDOWS W1, W1A, AND W6. 2 PIECES HORIZONTAL PER OVERALL WINDOW WIDTH FOR WINDOW W2, W5 AND 1 PIECE HORIZONTAL PER OVERALL WINDOW WIDTH FOR WINDOWS 3, 3A.
- PROVIDE ONE ROLLER BLIND ASSEMBLY FOR EACH GLASS SECTION OF OVERALL WINDOW BAY, ALLOW FOR OPERATIONAL CLEARANCES BETWEEN ROLLER BLIND UNITS, TYPICAL.
- PROVIDE ONE 75MM DIAMETER PVC PASS THROUGH BELOW WINDOW, EXTEND PASS THROUGH PIPE 13MM BEYOND FACE OF WALL ON EACH SIDE AND PROVIDE SEALANT BEAD ALONG JOINT. PROVIDE PVC SCREW CAP / PLUG. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT LOCATION IN WALL.
- EXTEND QUARTZ SILL BENEATH NEW WALL, TYPICAL.
- EXISTING OPENING IN SLAB ABOVE TO BE INFILLED WITH NEW METAL DECK, REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- PROVIDE CONCRETE INFILL TO EXISTING 32-50MM DIA HOLES THROUGH EXISTING CONCRETE SLAB THROUGHOUT SOUTH WING (APPROXIMATELY 65 LOCATIONS).
- 765x765mm TRANSFORMER, REFER TO ELECTRICAL DRAWING.
- NEW CEMENTITIOUS PANTED PAVING ON EXISTING TERRA COTTA.
- NEW UNISTRUT CENTRED AT BEAM, SHOWN BELOW BEAM FOR CLARITY.
- DASHED REPRESENTS EXTENT OF BUMPER RAIL ANCHORED TO WALL.
- EXISTING OVERHEAD DOOR TO REMAIN.
- PROVIDE HOARDING TO SEPARATE THE CONSTRUCTION SITE FROM DELIVERIES AS INDICATED BY DASHED LINE. HOARDING TO ALLOW FOR DELIVERIES AND ACCESS FROM MAIN DOOR AND OVERHEAD DOOR TO ELEVATOR DURING CONSTRUCTION. PHASE THE DEMOLITION & NEW WORK WITHIN THE HOARDED AREA.

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ONTARIO ASSOCIATION OF ARCHITECTS
MAURICE SEYMOUR MANNING BSC
LICENSE 5088

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3	DEC 11, 2015	ISSUED FOR TENDER	KWC
2	NOV 02, 2015	99% CLIENT REVIEW	KWC
1	SEPT 24, 2015	66% CLIENT REVIEW	KWC

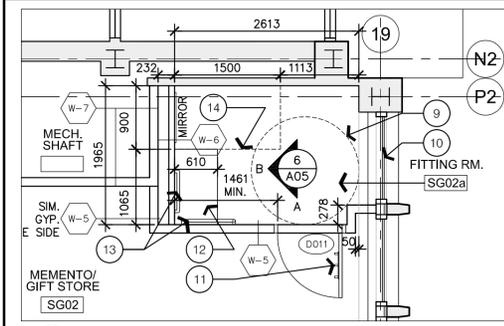
Date Printed: _____ Date imprimée: _____

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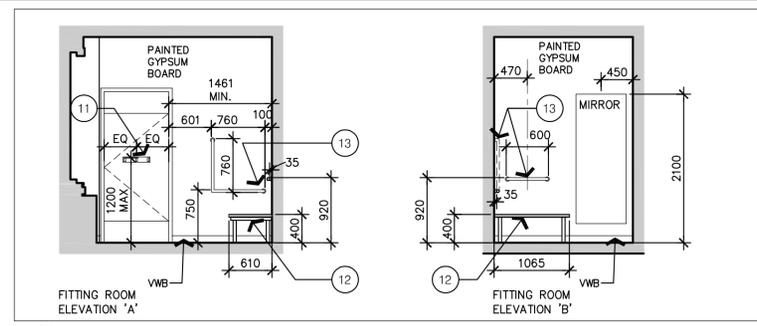
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B Location drawing no. / sur dessin no.
C Drawing no. / dessin no.

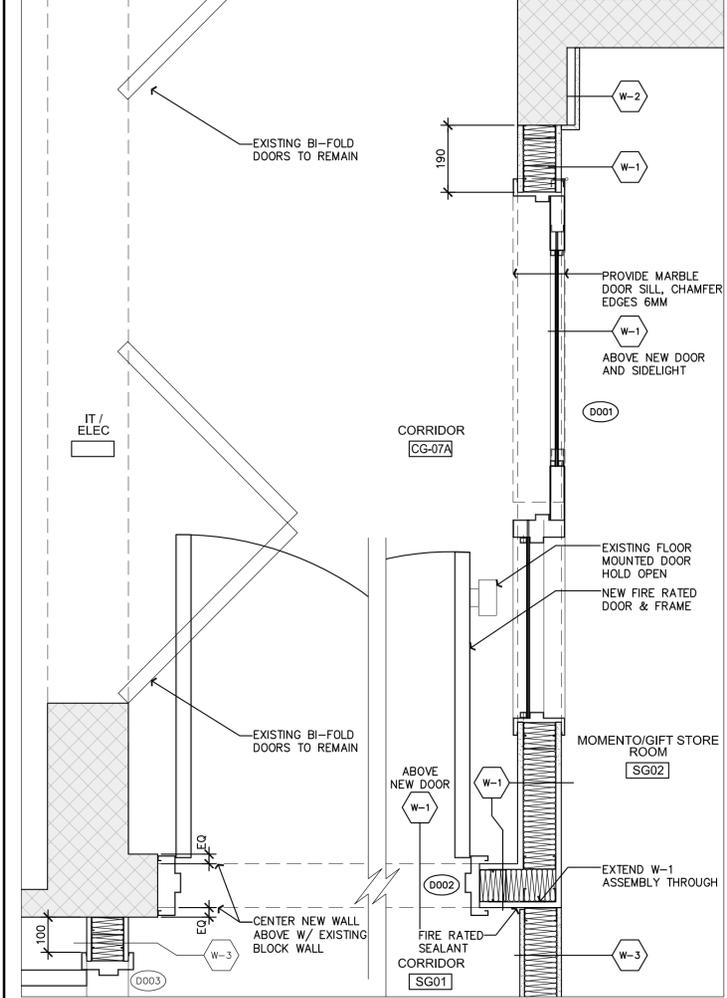
project / projet		NRC M58 GROUND LEVEL SOUTH WING RENOVATION	
drawing / dessin		NEW FLOOR PLAN AND NEW REFLECTED CEILING PLAN	
designed / conçu	date	07-2015	date
drawn / dessiné	scale	AS SHOWN	échelle
checked / vérifié	sheet / feuille	5 of / de 13	feuille
approved / approuvé	W.O.no.	851909	D.T.no.
dwg.no.	dessin no.		
5083-A04			



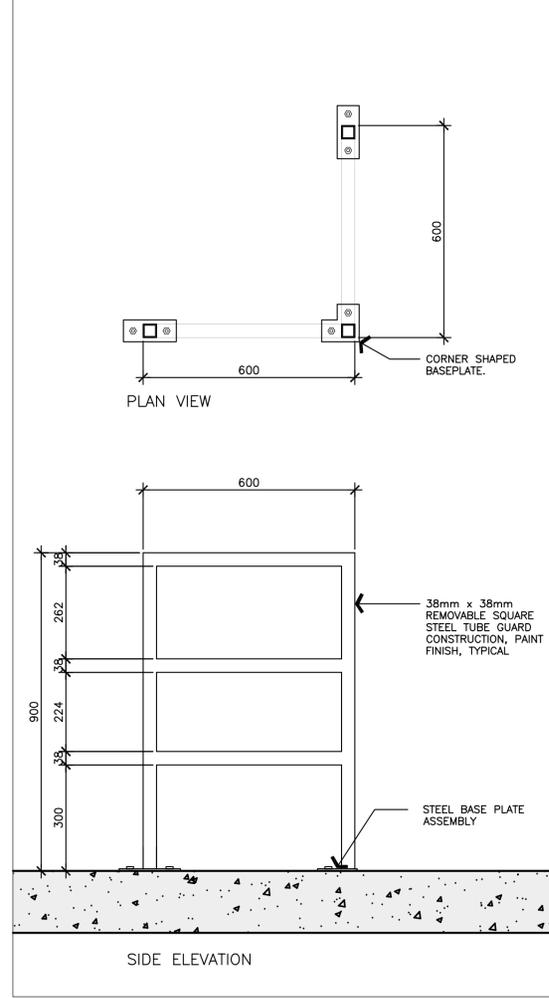
5 FITTING ROOM PLAN
A05 1:50



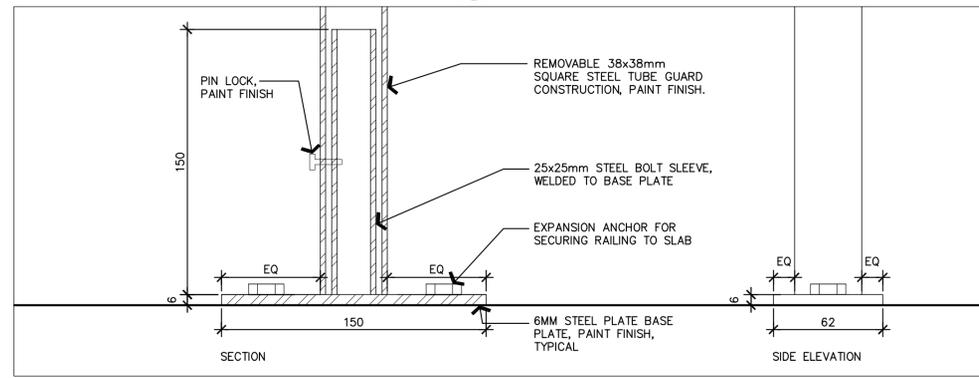
6 FITTING ROOM ELEVATIONS
A05 1:50



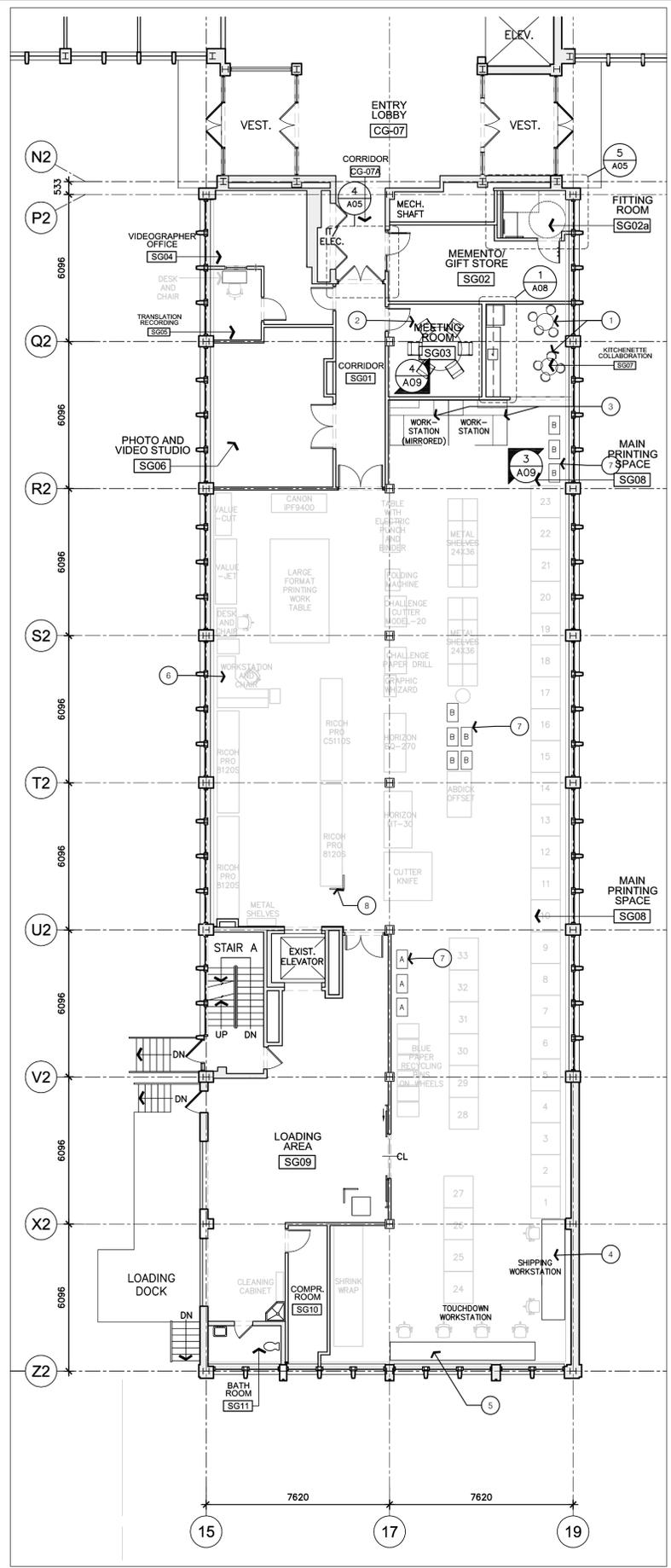
4 PLAN DETAIL
A05 1:10



2 TYPICAL FLOOR GUARDRAIL
A05 1:10



3 TYPICAL FLOOR GUARDRAIL BASEPLATE
A05 1:2



1 FURNITURE PLAN LAYOUT
A05 1:125

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B. DO NOT SCALE DRAWINGS.

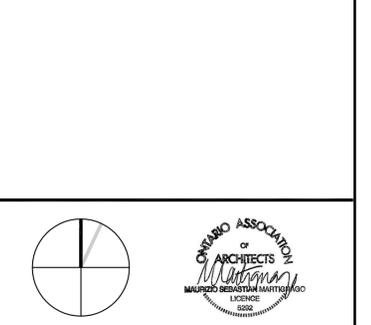
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DRAWING NOTES - SHEET A05
THESE NOTES APPLY TO DRAWING SHEET A05 ONLY

- NEW TABLES (2) AND CHAIRS (8)
- NEW MEETING ROOM TABLE (1) AND CHAIRS (6)
- NEW WORKSTATION (2), REFER ALSO TO DETAIL 3/A09, 4/A09 AND SPECIFICATIONS.
- NEW SHIPPING WORKSTATION MILLWORK, REFER TO DETAILS ON SHEET A11.
- NEW TOUCHDOWN WORKSTATION MILLWORK, REFER TO DETAILS ON SHEET A11.
- EXISTING WORKSTATION TO BE DELIVERED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
- NEW TYPE 'A', AND 'B' METAL CART, SEE DETAILS ON SHEET A09, TYPICAL.
- NEW STEEL GUARDRAIL, SEE DETAILS.
- NEW 1525mm DIA. TURNING RADIUS
- PROVIDE OPAQUE FILM ON GLASS IN FITTING ROOM.
- NEW COAT HOOKS (3)
- NEW BENCH: TWO LAYERS 19mm MAPLE VENEER WITH 19mm THICK SOLID MAPLE EDGE BAND, URETHANE VENEER AND EDGE BAND ON 2 - 38mm DIA STEEL LEGS, PROVIDE PAINT FINISH TO LEGS. CAP LEGS AT FLOOR AND PROVIDE MOUNTING ESCUTCHEON AT UNDERSIDE OF BENCH FOR SECUREMENT OF LEGS. PROVIDE WOOD LEDGER ALONG WALL FOR BENCH TO REST ON AND BE SECURED TO, SECURE LEDGER TO WALL STUD AND WOOD BLOCKING WITHIN STUD CAVITY, PAINT FINISH TO LEDGER, SCREW FASTEN AND GLUE BOTH LAYERS OF PLYWOOD TOGETHER FOR FULL BOND.
- NEW 32mm DIA. STEEL GRAB BARS
- NEW 900x1500mm TRANSFER SPACE
- REFER TO A09 FOR WORKSTATION ISOMETRIC DETAILS.

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KWC ARCHITECTS INC.

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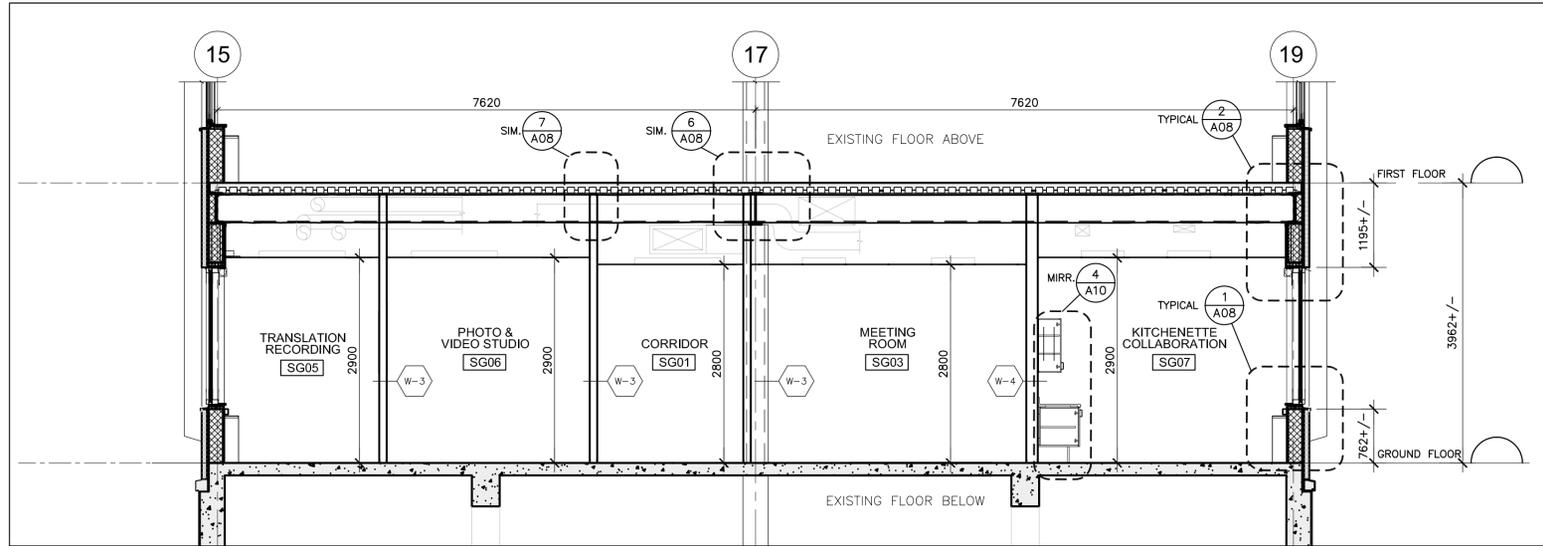
A Detail no. No. du détail
B Location drawing no. sur dessin no.
C Drawing no. dessin no.

project	NRC M58 GROUND LEVEL SOUTH WING RENOVATION			project
drawing	1200 MONTREAL ROAD			dessin
drawing	FURNITURE PLAN LAYOUT			dessin
designed	RZ	conçu	07-2015	date
drawn	RZ/EM	dessiné	AS SHOWN	échelle
checked	MM	vérifié	6 of/de 13	feuille
approved	MM	approuvé	W.O.no. 851909	D.T.no.
dwg.no.	5083-A05			dessin no.

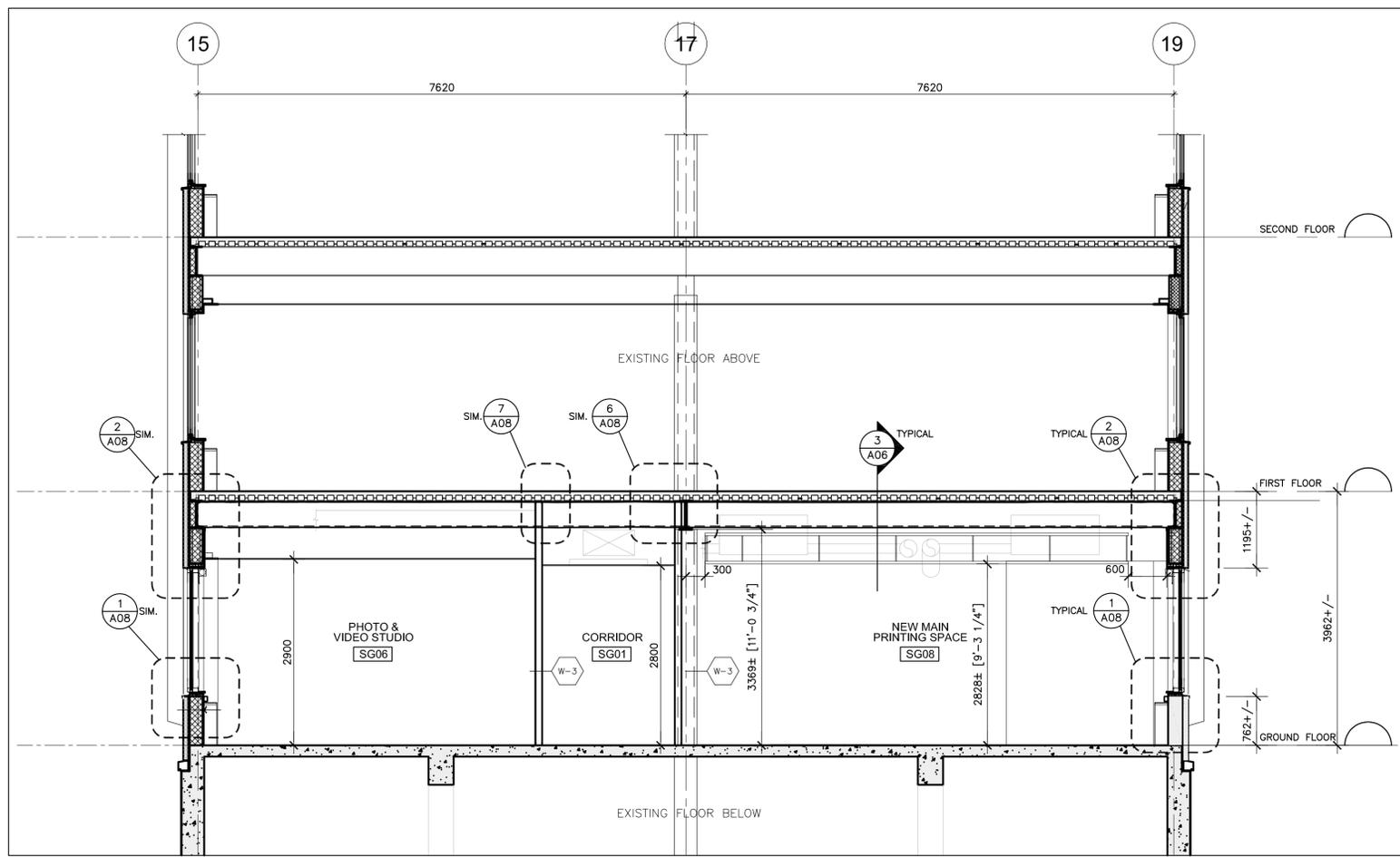
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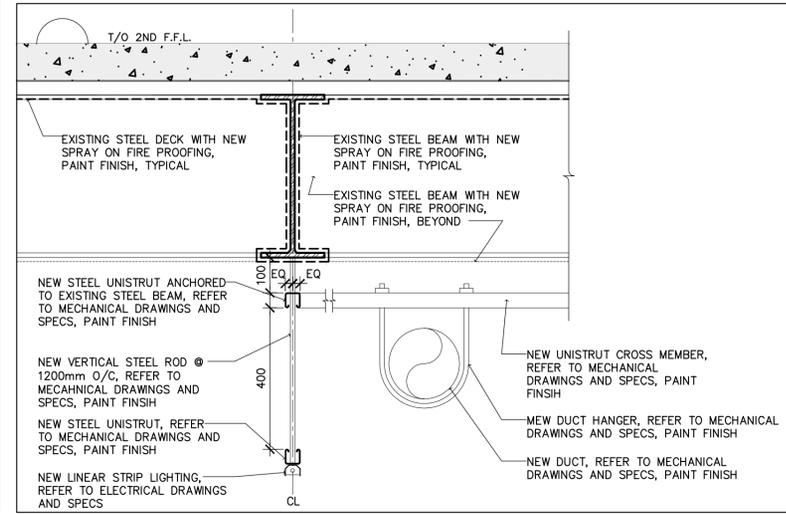
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2 BUILDING SECTION
 A06 1:50



1 BUILDING SECTION
 A06 1:50



3 UNISTRUT - SECTION DETAIL
 A06 1:10



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C	B Location drawing no. sur dessin no.	B
	C Drawing no. dessin no.	C

project	NRC M58 GROUND LEVEL SOUTH WING RENOVATION			project
drawing	BUILDING SECTIONS - NEW CONSTRUCTION			dessin
designed	RZ	conçu	07-2015	date
drawn	RZ/EM	dessiné	AS SHOWN	échelle
checked	MM	vérifié	7 of/de 13	feuille
approved	MM	approuvé	W.O.no. 851909	D.T.no.
dwg.no.	5083-A06			dessin no.

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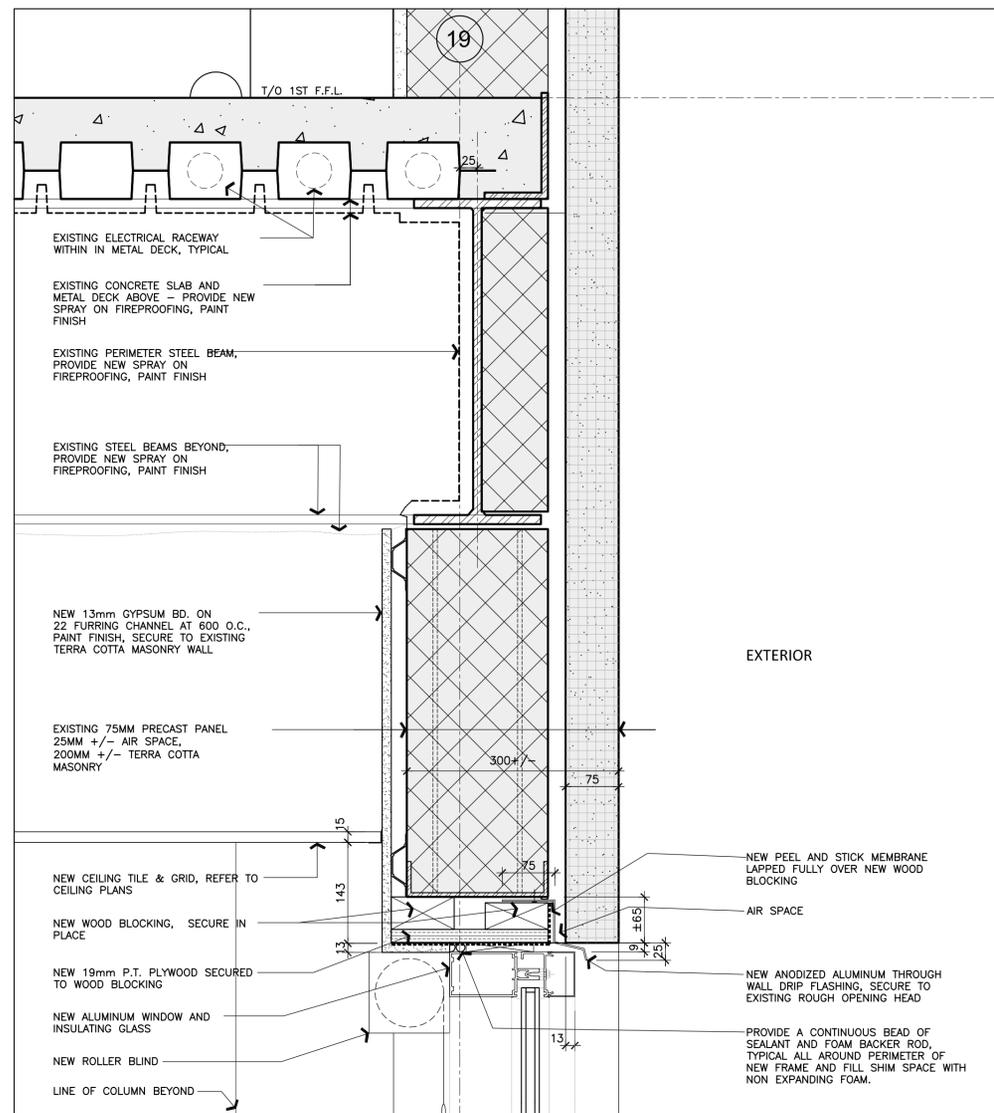
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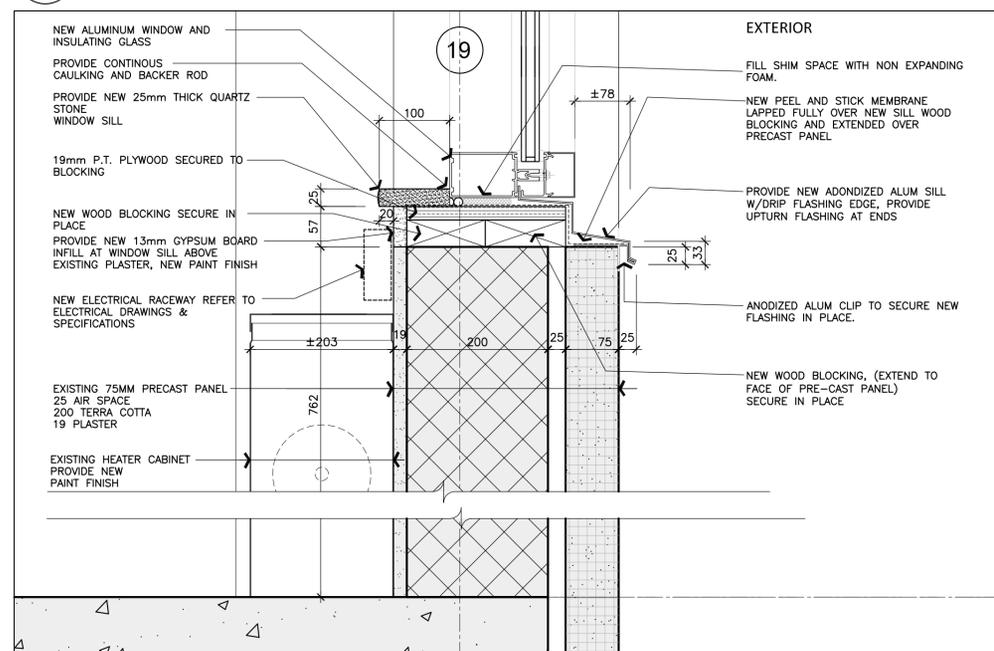
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C	C Drawing no. dessin no.	

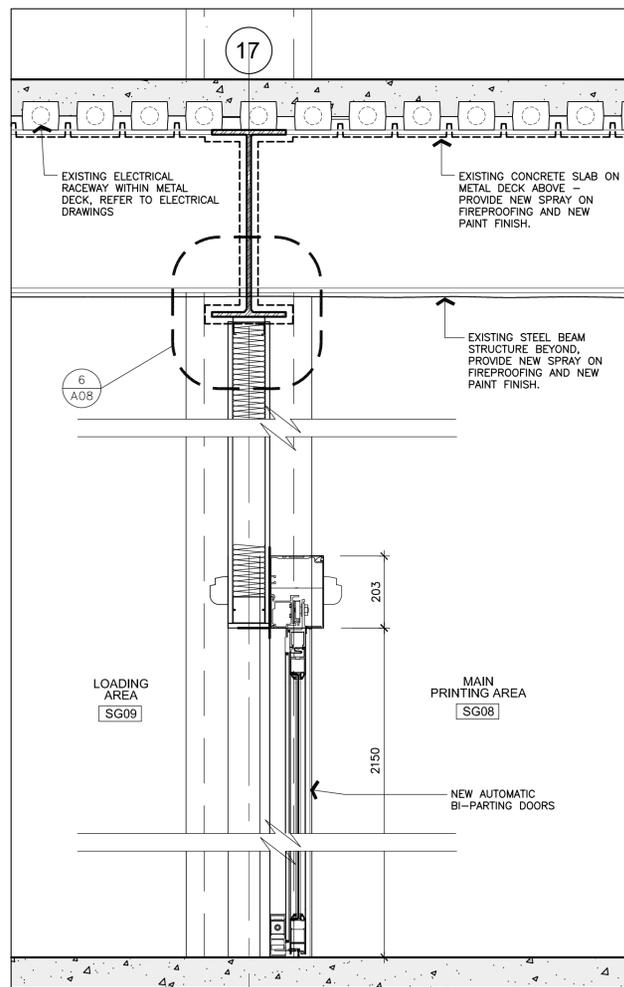
project				project			
NRC M58 GROUND LEVEL SOUTH WING RENOVATION							
1200 MONTREAL ROAD							
drawing							
SECTION DETAILS - NEW CONSTRUCTION							
designed	RZ	conçu		date	07-2015	date	
drawn	RZ/EM	dessiné		scale	AS SHOWN	échelle	
checked	MM	vérifié		sheet	9 of/de 13	feuille	
approved	MM	approuvé		W.O.no.	851909	D.T.no.	
dwg.no.				dessin no.			
5083-A08							



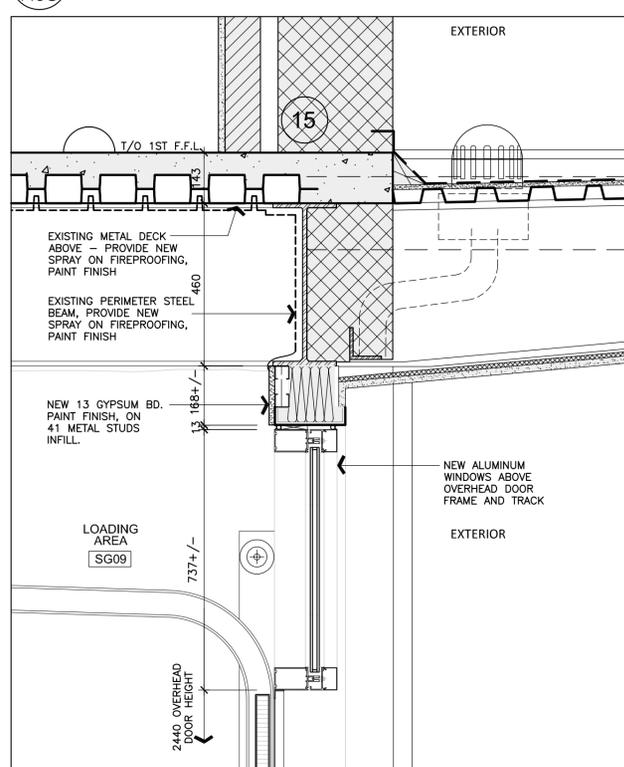
2 NEW WINDOW HEAD SECTION DETAIL - TYPICAL
 A08 1:5



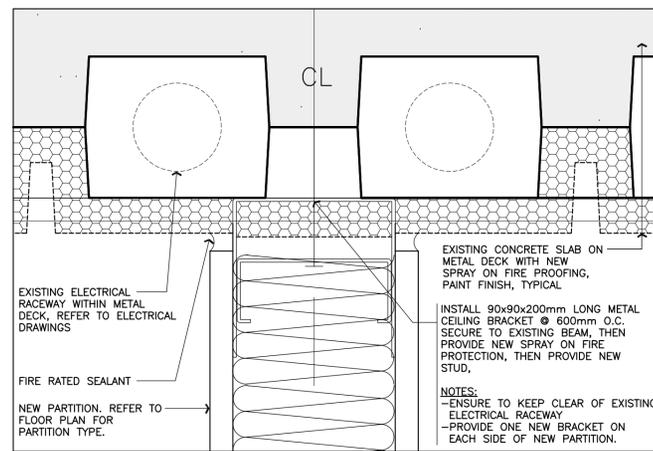
1 NEW WINDOW SILL SECTION DETAIL - TYPICAL
 A08 1:5



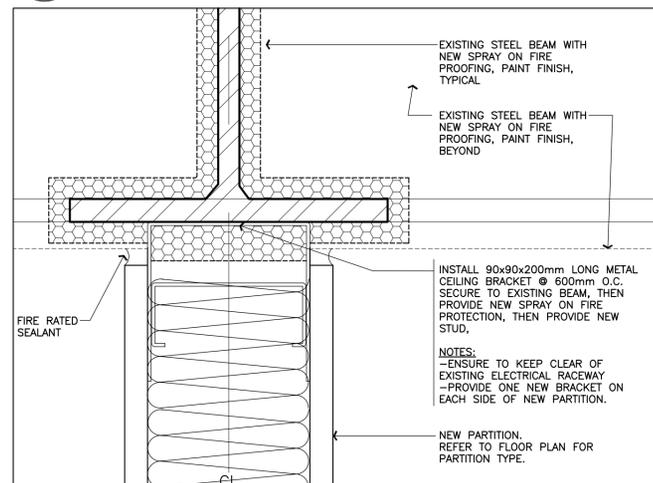
4 SECTION DETAIL - AUTOMATIC DOOR AT LOADING AREA
 A08 1:10



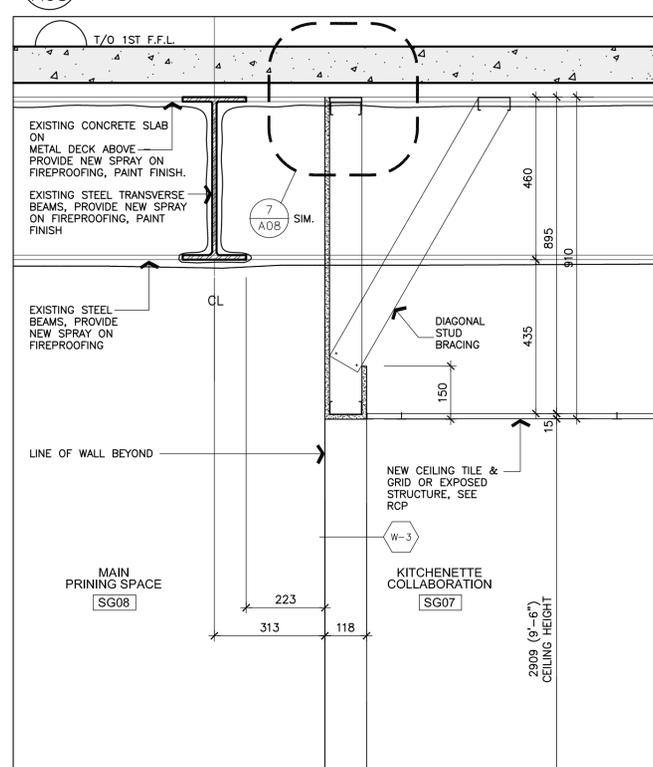
3 SECTION DETAIL
 A08 1:10



7 SECTION DETAIL AT STUD/DECK, TYPICAL
 A08 1:2



6 SECTION DETAIL AT STUD/BEAM, TYPICAL
 A08 1:2

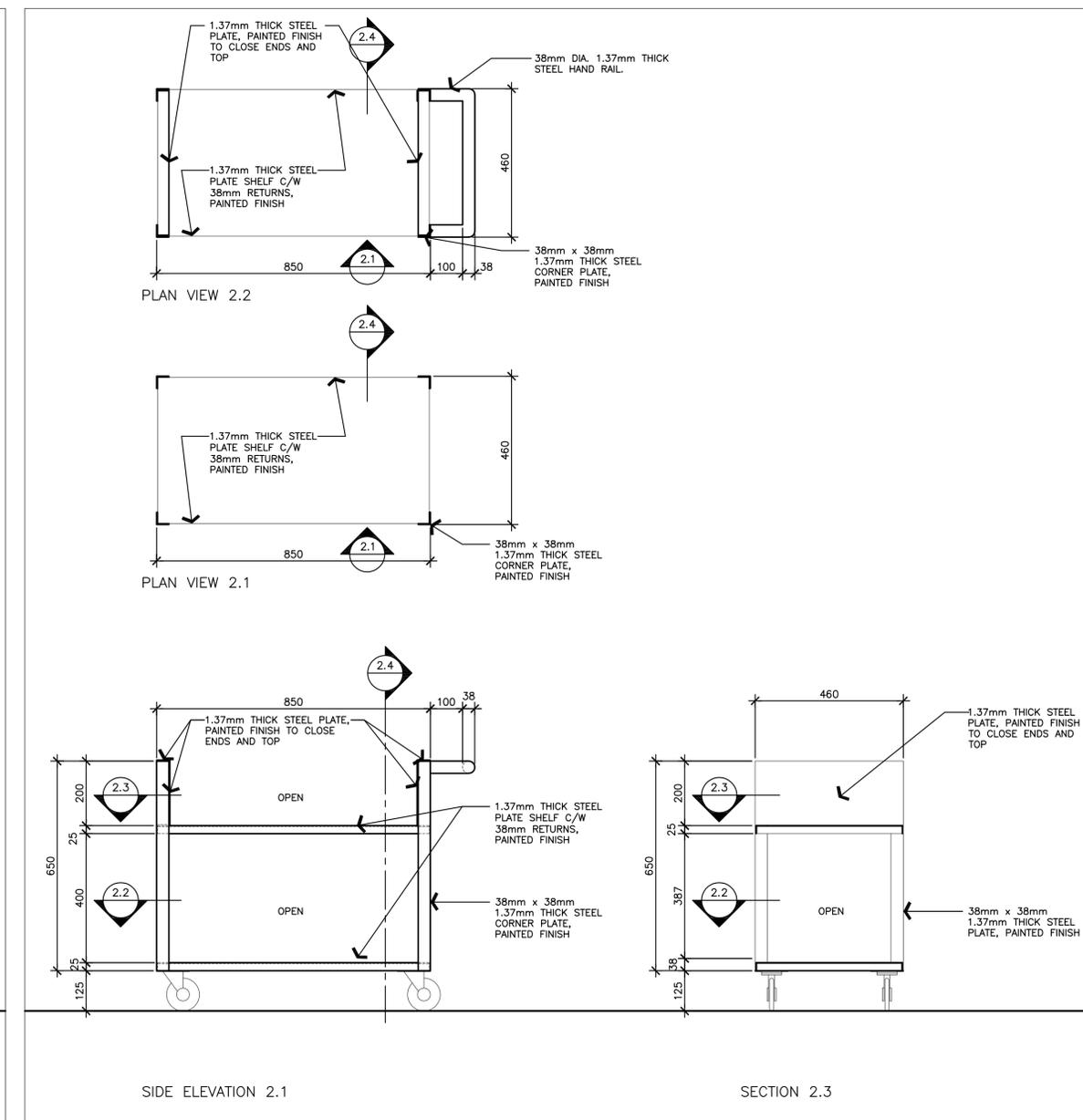
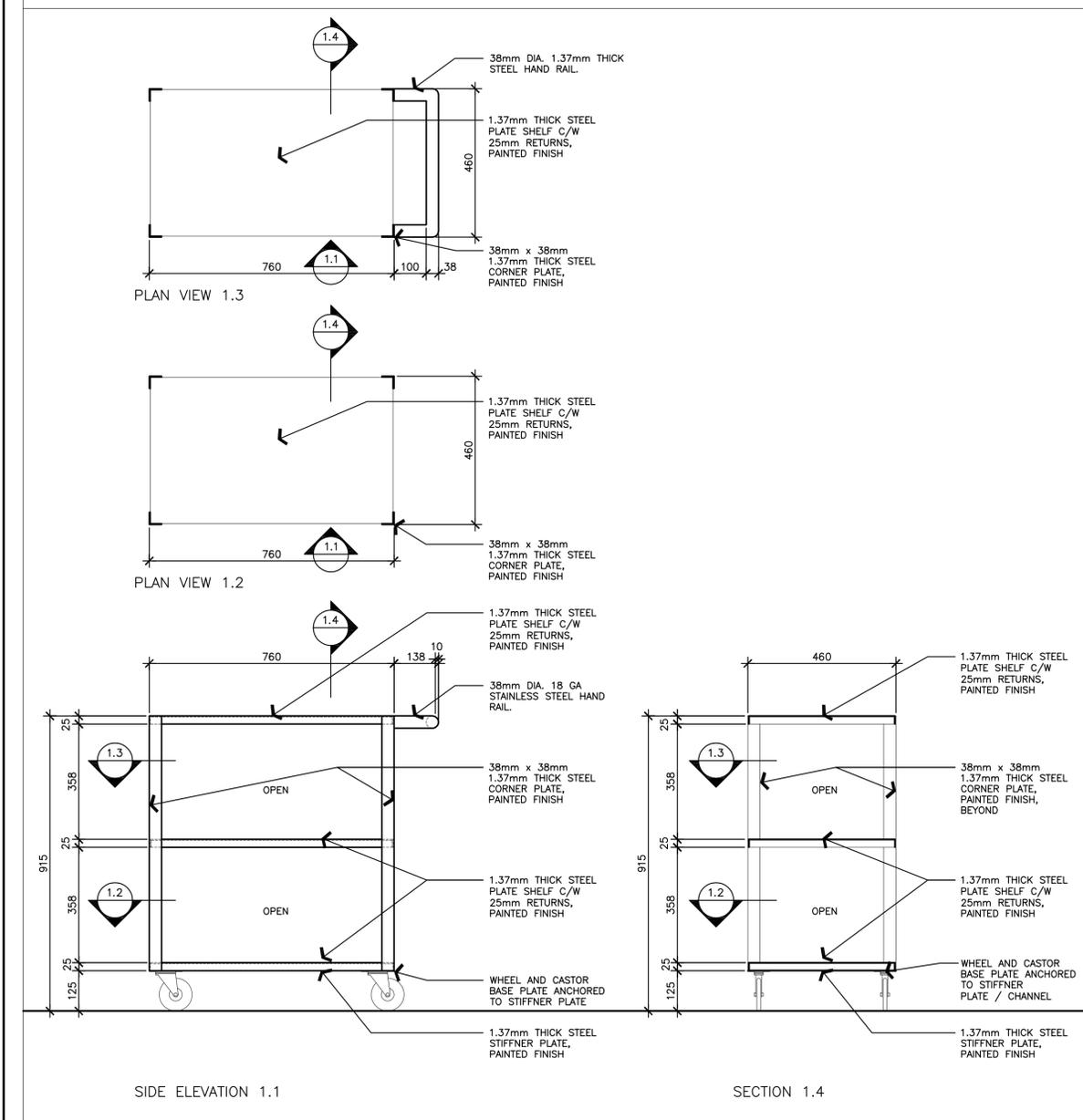
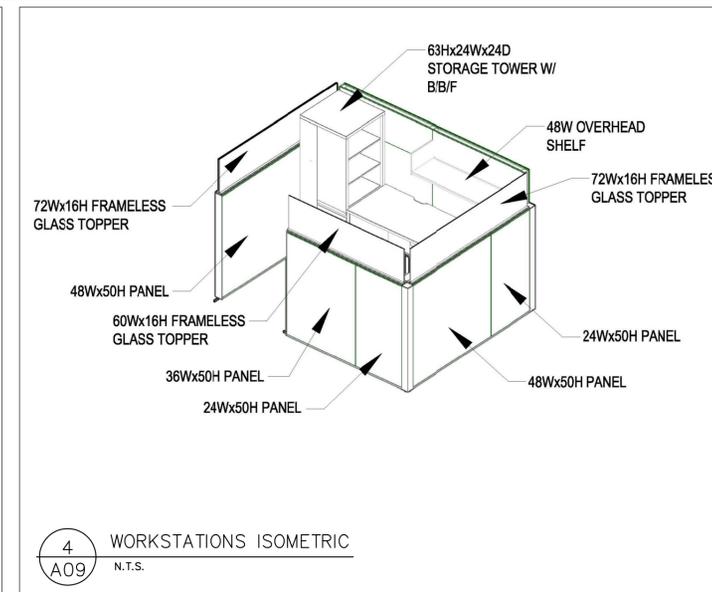
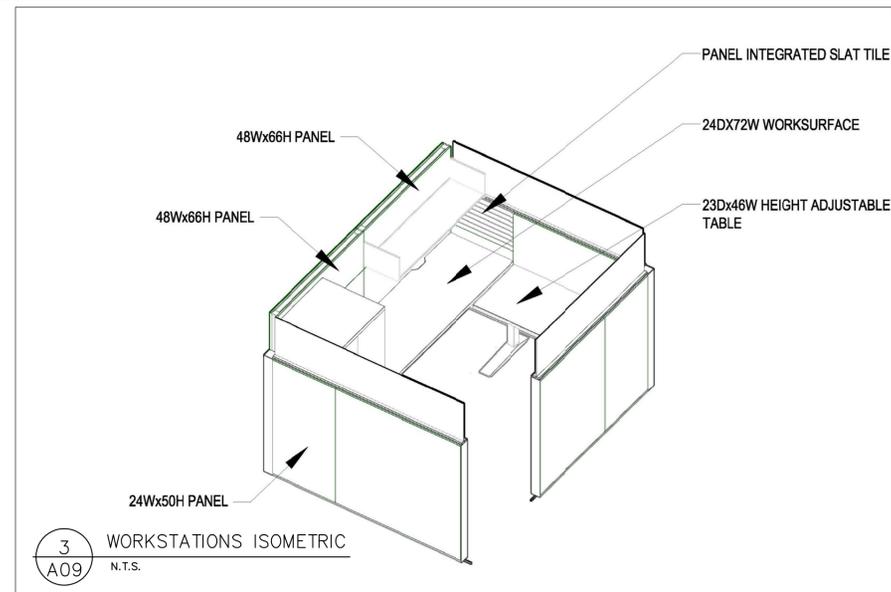


5 NEW CEILING BULKHEAD SECTION DETAIL
 A08 1:10

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

project: **NRC M58 GROUND LEVEL SOUTH WING RENOVATION**

1200 MONTREAL ROAD

drawing: **METAL CART AND WORKSTATION DETAILS - NEW CONSTRUCTION**

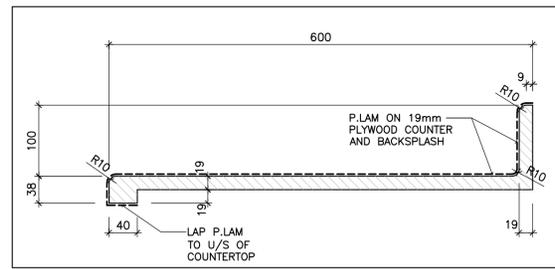
designed	conçu	date	07-2015	date
drawn	dessiné	scale	AS SHOWN	échelle
checked	MM	vérifié	sheet 10 of/de 13	feuille
approved	MM	approuvé	W.O.no. 851909	D.T.no.

dwg.no. **5083-A09** dessin no.

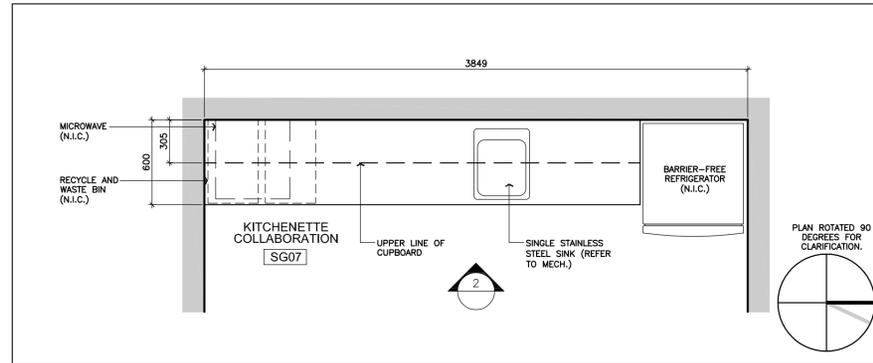
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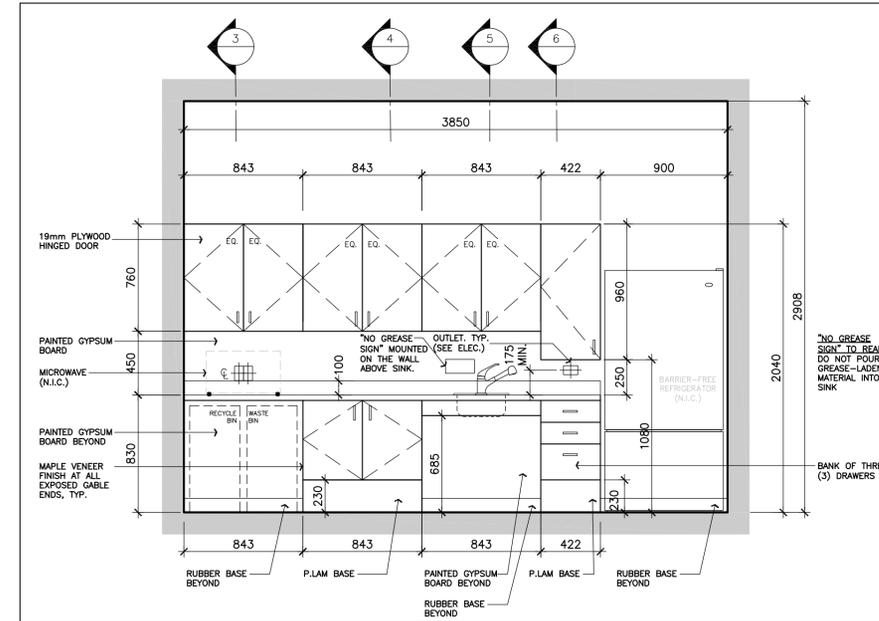
- NOTES:**
- SINK & HARDWARE TO BE SUPPLIED & INSTALLED BY CONTRACTOR.
 - TAPS & PLUMBING CONNECTIONS TO BE SUPPLIED & INSTALLED BY CONTRACTOR.
 - SUPPLY BLOCKING IN WALL LOCATED AT MILLWORK WHERE NEEDED.



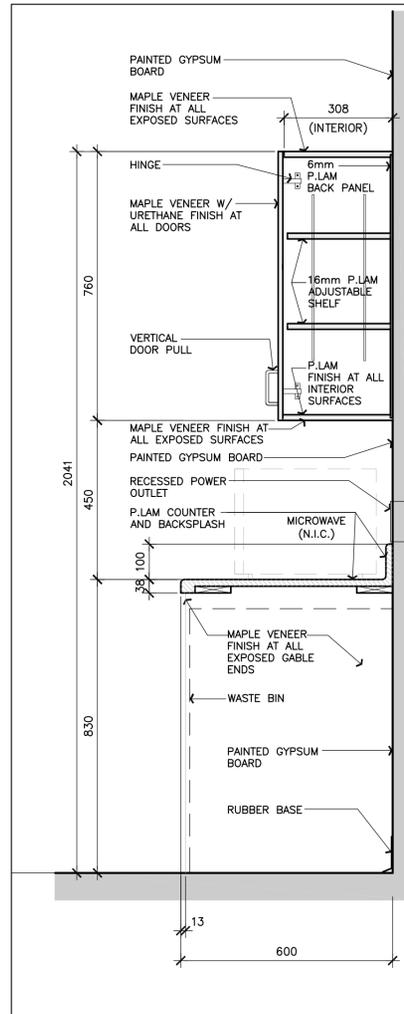
7 TYP. COUNTER TOP
 A10 1:10



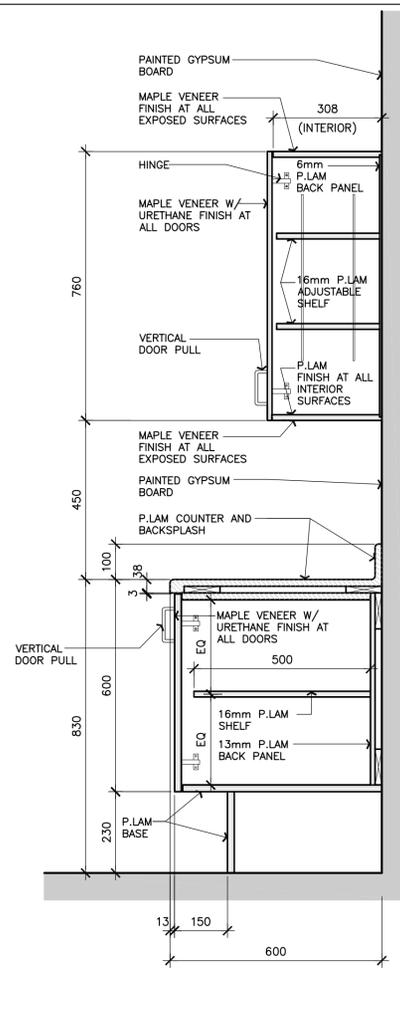
1 KITCHENETTE MILLWORK PLAN
 A10 1:25



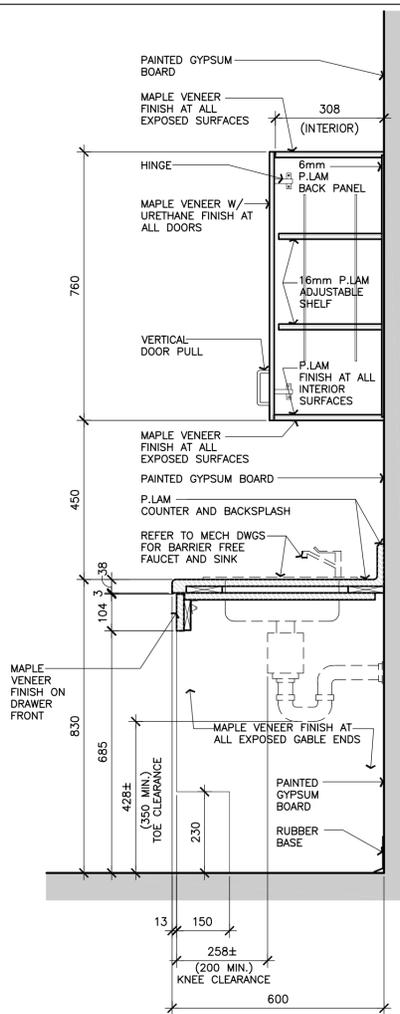
2 KITCHENETTE MILLWORK ELEVATION
 A08 1:25



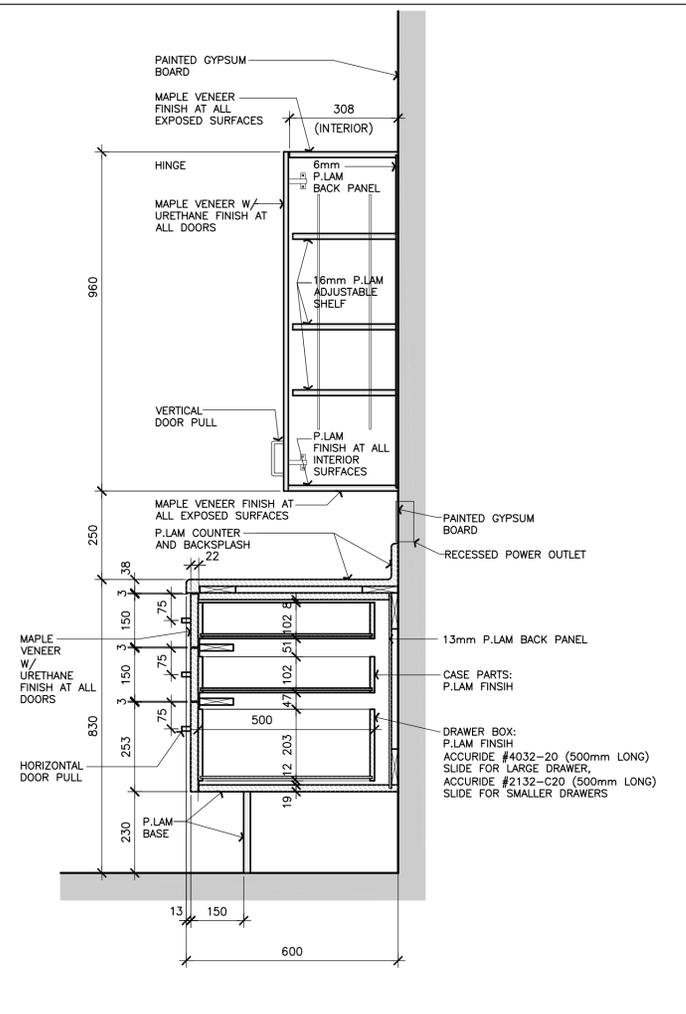
3 MILLWORK SECTION
 A10 1:10



4 MILLWORK SECTION
 A10 1:10



5 MILLWORK SECTION
 A10 1:10



6 MILLWORK SECTION
 A10 1:10



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project / projet
NRC M58 GROUND LEVEL SOUTH WING RENOVATION
 1200 MONTREAL ROAD
 drawing / dessin
KITCHENETTE MILLWORK - NEW CONSTRUCTION

designed	conçu	date	07-2015	date
RZ				
drawn	dessiné	scale	AS SHOWN	échelle
RZ/EM				
checked	vérifié	sheet	11	of/de
MM				13
approved	approuvé	W.O.no.		D.T.no.
MM				
dwg.no.				dessin no.

5083-A10

ROOM No.	ROOM NAME	FLOOR		BASE		NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING		NOTES
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
GC07A	COORIDOR	EX	EX	EX/MR	EX	-	-	GB	PT	GB/PL	PT	PL	PT	ACT 1	ACT 1	1. 4.
SG01	COORIDOR	VCT	VCT	VWB	VWB	GB	PT	GB	PT	GB	PT	GB	PT	ACT 1	ACT 1	1.
SG02	MEMENTO/GIFT SHOP	CPT	CPT	VWB	VWB	PL	PT	GB	PT	PL&GB	PT	GB	PT	ACT 1	ACT 1	1. 2. 3.
SG02A	FITTING ROOM	CPT	CPT	VWB	VWB	PL	PT	GB	PT	PL&GB	PT	PL&GB	PT	ACT 1	ACT 1	
SG03	MEETING ROOM	CPT	CPT	VWB	VWB	GB	PT	GB	PT	GB	PT	GB	PT	ACT 2	ACT 2	1. 3.
SG04	VIDEOGRAPHER OFFICE	VCT	VCT	VWB	VWB	GB	PT	GB	PT	GB	PT	PL&GB	PT	ACT 1	ACT 1	1.
SG05	TRANSLATION RECORDING	VCT	VCT	VWB	VWB	GB	PT	GB	PT	GB	PT	PL&GB	PT	ACT 1	ACT 1	1. 2.
SG06	PHOTO AND VIDEO STUDIO	VCT	VCT	VWB	VWB	GB	PT	GB	PT	GB	PT	PL&GB	PT	ACT 1	ACT 1	1. 2.
SG07	KITCHENETTE COLLABORATION	VCT	VCT	VWB	VWB	GB	PT	GB	PT	PL&GB	PT	GB	PT	ACT 2	ACT 2	1. 2.
SG08	MAIN PRINTING SPACE	VCT	VCT	VWB	VWB	GB	PT	PL&GB	PT	PL&GB	PT	PL&GB	PT	EPST	FPS/PT	2.
SG09	LOADING AREA	CONC.	PT	VWB	VWB	GB	PT	GB	PT	GB	PT	EXISTING	PT	EPST	FPS/PT	
SG10	COMPRESSOR ROOM	CONC	PT	VWB	VWB	GB	PT	GB	PT	GB	PT	GB	PT	EPST	FPS/PT	2.
SG11	BATHROOM	CONC	VCT	VWB	VWB	GB	PT	GB	PT	GB	PT	GB	PT	EX/PL	PT	2.

- NOTES: REFER ALSO TO COVER SHEET FOR ABBREVIATIONS
1. NEW FPS ABOVE ACT CEILING.
 2. NEW PAINT FINISH TO EXISTING PERIMETER HEATER CABINET.
 3. SEE CARPET TILE INSTALLATION PATTERN, DETAIL 5/A12
 4. MARBLE WALL BASE.

1 ROOM FINISH SCHEDULE
A12

DOOR NO.	DOOR						GLAZ'G	FRAME				NOTES
	WIDTH	HEIGHT	THICKN.	MAT.	FIN.	ELEV.		MAT.	MAT.	FIN.	ELEV.	
D001	915	2135	45	HM	PAINT	B	TG	PS	PAINT	C	3. 7.	
D002	2 @ 915	2135	45	HM	PAINT	A	HM	PS	PAINT	B	5. 6.	
D003	915	2135	45	HM	PAINT	D	TG	PS	PAINT	A	4.	
D004	762	2135	45	HM	PAINT	D	TG	PS	PAINT	A	4.	
D005	2 @ 915	2135	45	HM	PAINT	C	TG	PS	PAINT	B	4.	
D006	2 @ 915	2135	45	HM	PAINT	C	TG	PS	PAINT	B	4.	
D007	915	2135	45	HM	PAINT	B	TG	PS	PAINT	A		
D008	1830	2135	45	ALUM.	ANODIZED	E	TG	ALUM	ANODIZED	-	1.	
D009	915	2135	45	HM	PAINT	A	-	PS	PAINT	A	4.	
D010	915 & 610	2135	45	HM	PAINT	C (SIM.)	TG	PS	PAINT	B	2.	
D011	915	1830	45	WD	UR	A (SIM.)	-	HM	PAINT	A	8.	

2 DOOR SCHEDULE
A12

- NOTES:
1. BI-PARTING AUTOMATIC DOOR, CLEAR WIDTH OPENING OF 1830MM WHEN DOORS FULLY IN OPEN POSITION.
 2. PROVIDE TG GLAZED PANEL TO 915MM DOOR LEAF ONLY.
 3. 45MIN FIRE RATED DOOR, DOOR FRAME, HARDWARE AND SIDELIGHT.
 4. DOOR TO BE INSULATED
 5. 45MIN FIRE RATED DOOR, DOOR FRAME AND HARDWARE.
 6. INSTALL SALVAGED DOOR HOLD OPEN CONTACTS FROM EXISTING DOORS THAT WERE REMOVED.
 7. MARBLE DOOR SILL
 8. MAPLE VENEER SOLID CORE WOOD DOOR, URETHANE FINISH.

GENERAL NOTES
PRIOR TO COMMENCEMENT OF WORK, NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES NOTED IN THE CONTRACT DOCUMENTS.

A. ALL GRID TO GRID DIMENSIONS ARE PLUS/MINUS. PRIOR TO COMMENCEMENT OF WORK, REVIEW SITE CONDITIONS AND VERIFY ALL DIMENSIONS. NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.

B. DO NOT SCALE DRAWINGS.

C. ALL DIMENSIONS ARE INDICATED IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.



GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.



No.	Date	Revision	By:
3	DEC 11, 2015	ISSUED FOR TENDER	KWC
2	NOV 02, 2015	99% CLIENT REVIEW	KWC
1	SEPT 24, 2015	66% CLIENT REVIEW	KWC

kwc 393 Parkdale Avenue, Suite 201
Ottawa Ontario Canada K1Y 4R4

KWC ARCHITECTS INC.

PHONE (613) 238-2117
FAX (613) 238-6595
E MAIL kwc@kwc-arch.com

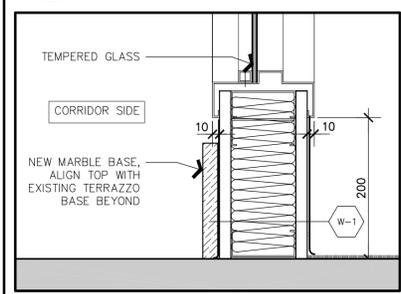
- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

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

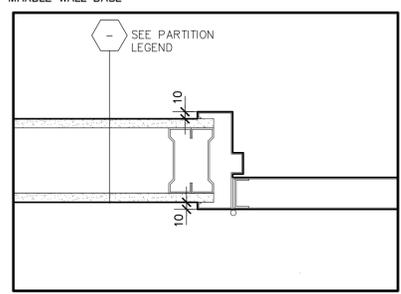
project NRC M58 GROUND LEVEL SOUTH WING RENOVATION

1200 MONTREAL ROAD
drawing DOOR, WINDOW AND ROOM FINISH SCHEDULE - NEW CONSTRUCTION

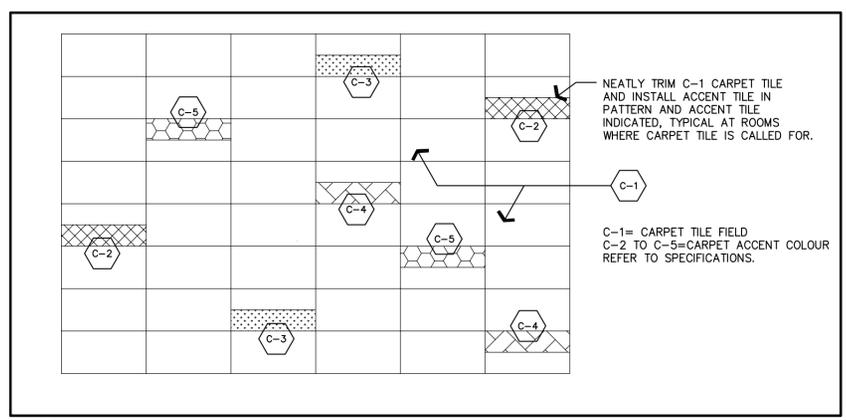
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RZ				
drawn	dessiné	scale	AS SHOWN	échelle
RZ/EM				
checked	vérifié	sheet	13 of/de 13	feuille
MM				
approved	approuvé	W.O.no.	851909	D.T.no.
MM				
dwg.no.			5083-A12	dessin no.



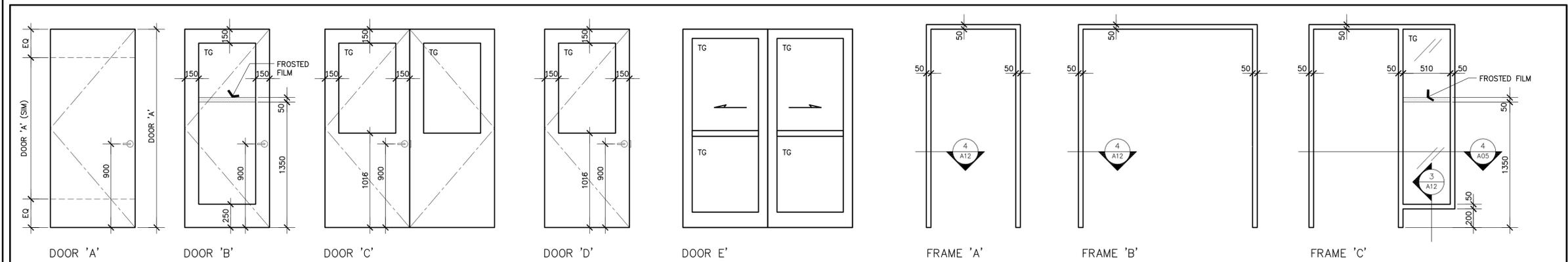
3 SECTION DETAIL
A12 1:5



4 PLAN DETAIL
A12 1:5

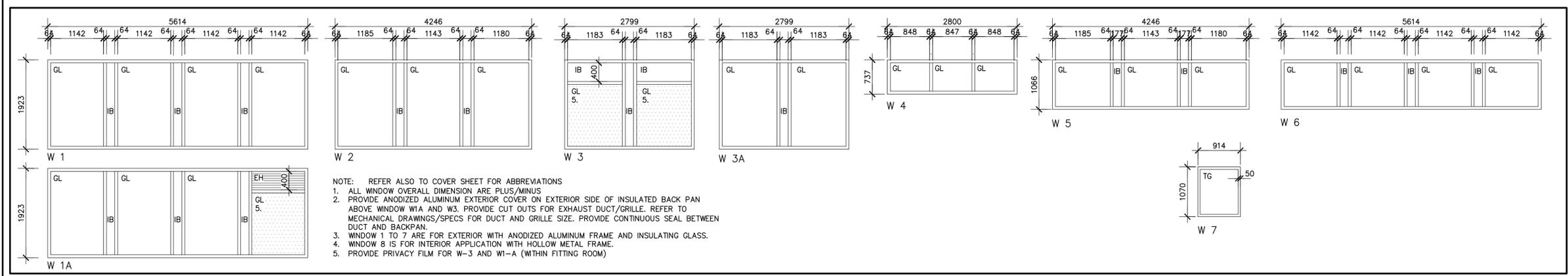


5 TYPICAL CARPET TILE PATTERN
A12 1:50



6 DOOR AND FRAME ELEVATIONS
A12 1:25

- NOTES: REFER ALSO TO COVER SHEET FOR ABBREVIATIONS
1. TG = TEMPERED GLASS



7 WINDOW ELEVATIONS
A12 1:50

- NOTE: REFER ALSO TO COVER SHEET FOR ABBREVIATIONS
1. ALL WINDOW OVERALL DIMENSION ARE PLUS/MINUS
 2. PROVIDE ANODIZED ALUMINUM EXTERIOR COVER ON EXTERIOR SIDE OF INSULATED BACK PAN ABOVE WINDOW W1A AND W3. PROVIDE CUT OUTS FOR EXHAUST DUCT/GRILLE. REFER TO MECHANICAL DRAWINGS/SPECS FOR DUCT AND GRILLE SIZE. PROVIDE CONTINUOUS SEAL BETWEEN DUCT AND BACKPAN.
 3. WINDOW 1 TO 7 ARE FOR EXTERIOR WITH ANODIZED ALUMINUM FRAME AND INSULATING GLASS.
 4. WINDOW 8 IS FOR INTERIOR APPLICATION WITH HOLLOW METAL FRAME.
 5. PROVIDE PRIVACY FILM FOR W-3 AND W1-A (WITHIN FITTING ROOM)



GENERAL NOTES

CONCRETE:

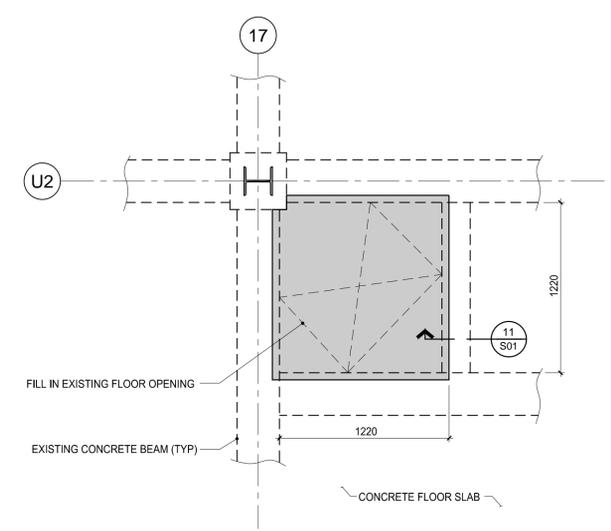
- CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25 MPa.
- REINFORCING STEEL SHALL CONFORM TO CSA G 30.18 - 05 GRADE 400.
- CONCRETE SLABS SHALL RECEIVE A STEEL TROWELED FINISH.
- ALL CONCRETE WORK SHALL CONFORM TO CSA A23.1 - 00 AND CSA A23.2 - 00.

STRUCTURAL STEEL:

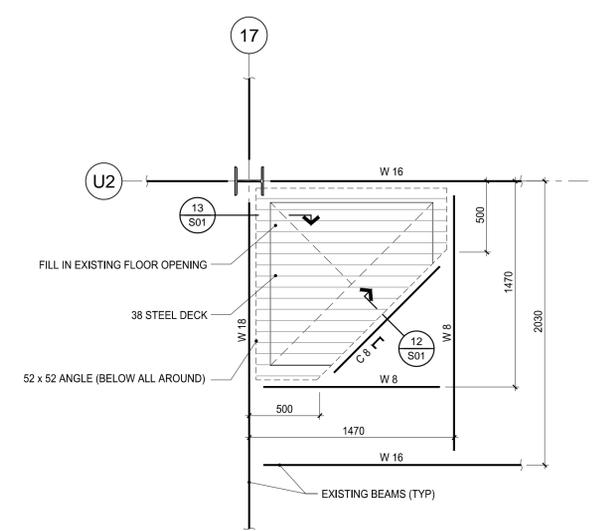
- STRUCTURAL STEEL SHALL CONFORM TO CSA G 40.20 - 04 AND CSA G40.21 - 04 GRADE 300.
- WELDING SHALL CONFORM TO CSA W59.03 (R2008), AND SHALL BE CARRIED OUT BY WELDERS QUALIFIED BY THE CANADIAN WELDING BUREAU.
- STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF PRIMER CONFORMING TO CAN / CGSB 1-40 - S7 "ANTI-CORROSIVE STRUCTURAL STEEL ALKYD PRIMER"
- THE STRUCTURAL STEEL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.
- THE STRUCTURAL STEEL WORK SHALL CONFORM TO CAN / CSA S16 - 09.

STEEL DECK:

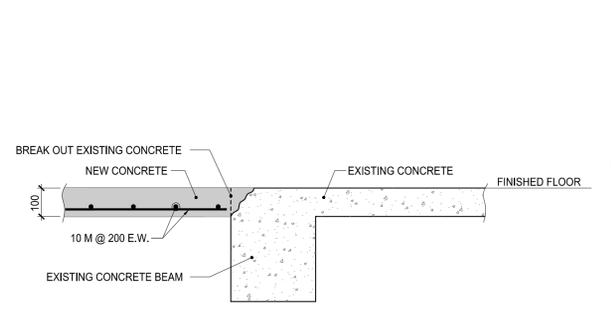
- STEEL DECK SHALL BE FORMED FROM SHEET STEEL CONFORMING TO CGSB 101 - 78 "ZINC-COATED STRUCTURAL QUALITY SHEET STEEL FOR ROOF AND FLOOR DECK", MINIMUM GRADE A WITH A BASE STEEL NOMINAL THICKNESS OF 0.91 mm, AND A MINIMUM ZINC COATING OF "WIPE COAT".
- WELD DECK TO SUPPORT ANGLES AT EVERY SECOND FLUTE.
- ALL WELDS SHALL BE PRIME PAINTED.



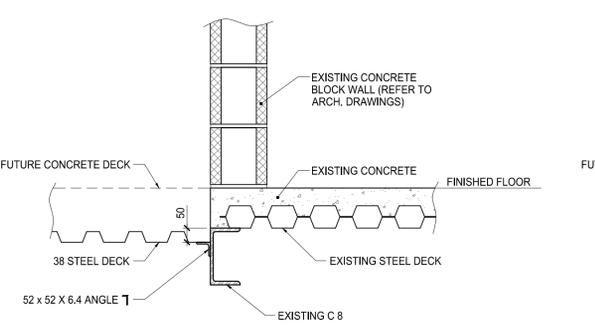
GROUND FLOOR PLAN AT DUMB WAITER



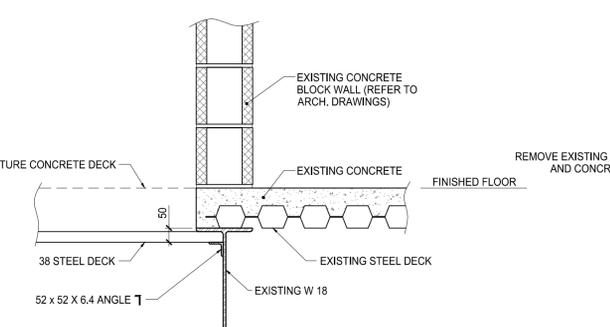
FIRST FLOOR PLAN AT DUMB WAITER



11 SECTION

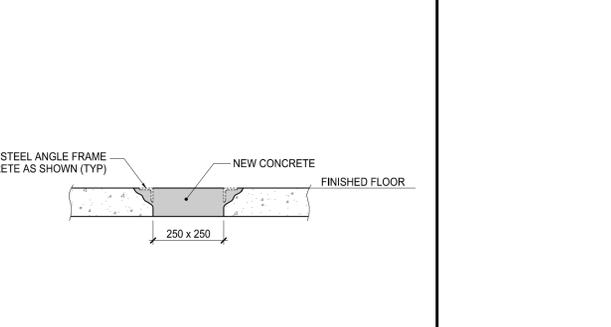


12 SECTION



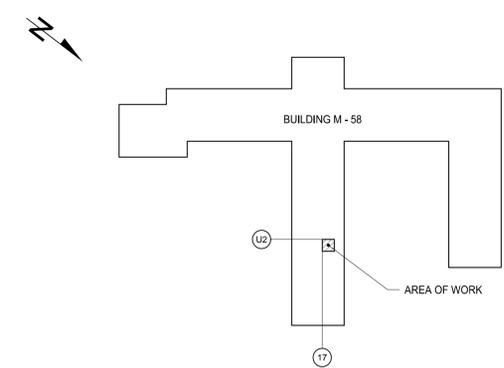
13 SECTION

(SIMILAR AT W8 AND W16 BEAMS)



14 SECTION

(DETAIL AT FLOOR DRAIN BEING REMOVED)



KEY PLAN

No.	Date	Revision	By:
2	NOV. 2015	RE - ISSUED FOR TENDER	RL
1	NOV. 16/15	ISSUED FOR TENDER	RL
0	NOV. 12/15	PRELIMINARY	RL

- 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.

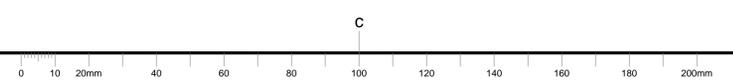
A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

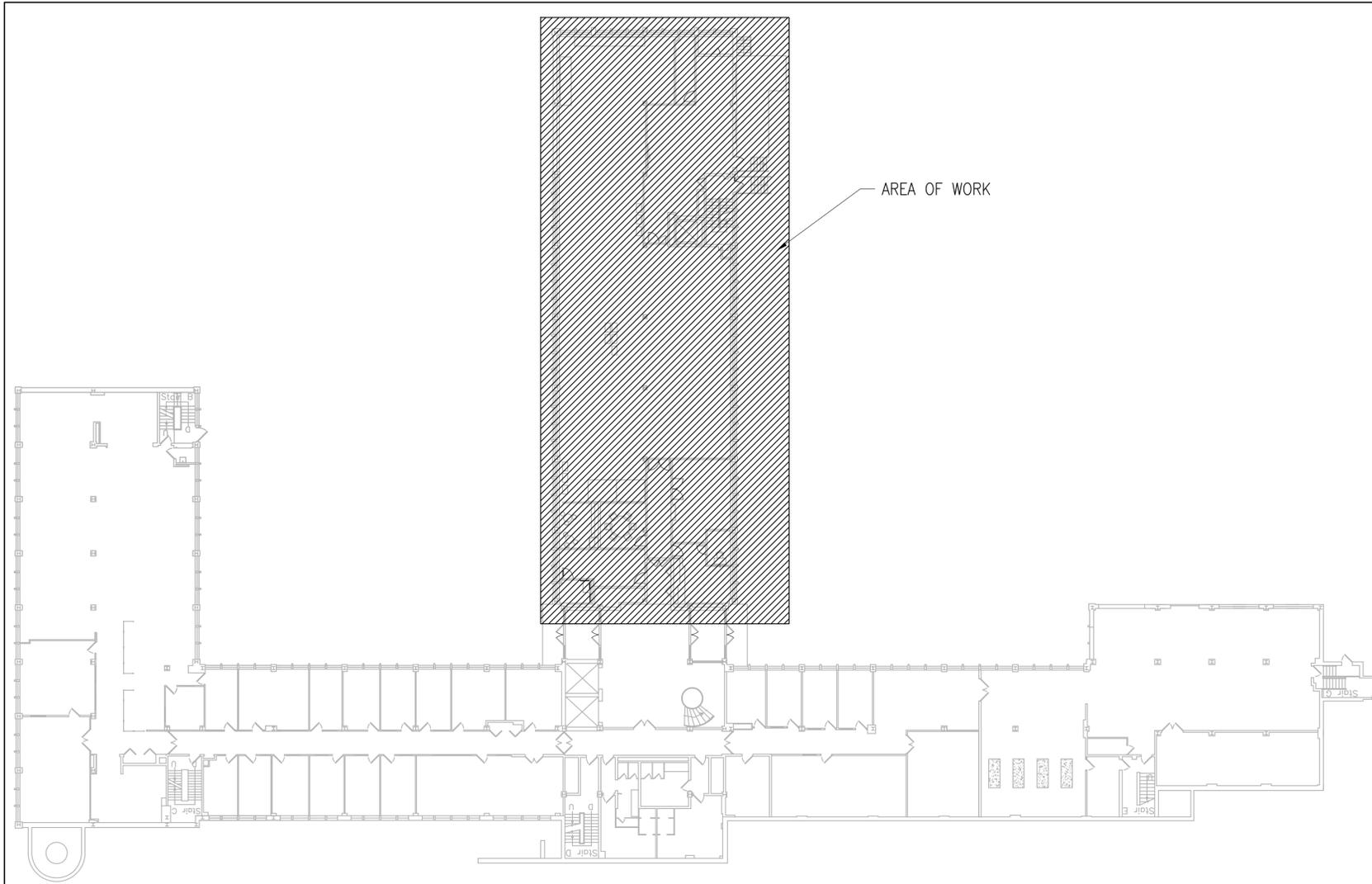
project
BUILDING M - 58
SOUTH WING FIRST FLOOR RENOVATIONS
 MONTREAL ROAD CAMPUS

drawing
STRUCTURAL:
GROUND FLOOR AND FIRST FLOOR PLANS AND DETAILS

designed	R.L.	conçu	date	NOVEMBER, 2015
drawn	M.P.	dessiné	scale	AS SHOWN
checked	R.L.	vérifié	sheet	S01 of/de S01
approved		approuvé	W.O.no.	851909
D.T.no.				

dwg.no. **5083 - S01** dessin no.





1
M-58- GROUND FLOOR PLAN
AREA OF WORK
SCALE: 1:250

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	GATE VALVE
	BALL VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE (DOC)
	PIPE UP
	PIPE DOWN
	UNION
	BLANK FLANGE
	CAP
	AUTOMATIC AIR VENT
	WALL HUNG LAVATORY (LAV-)
	WATER CLOSET (WC-)
	KITCHEN SINK (S-)
	JANITOR'S SINK (JS-)
	RECTANGULAR DUCTWORK
	ACOUSTICALLY INSULATED RECTANGULAR DUCTWORK
	THERMALLY INSULATED RECTANGULAR DUCTWORK
	ROUND SPIRAL DUCTWORK
	RETURN AIR GRILLE
	SUPPLY DIFFUSERS
	ROUND TAKE-OFF C/W BALANCING DAMPER
	90° ELBOW
	BACK-DRAFT DAMPER
	BALANCING DAMPER
	EXISTING INDUCTION UNIT
	TEMPERATURE SENSOR (DOC)
	PRESSURE SENSOR (DOC)
	SPLIT SYSTEM CONTROLLER (DOC)
	DUAL DUCT VAV UNIT
	UNIT HEATER
	AIR COMPRESSOR - RELOCATED
	GENERAL EXHAUST FAN
	KITCHEN OR WASHROOM EXHAUST FAN

MECHANICAL LINE TYPE LEGEND	
LINE	DESCRIPTION
	CONTROL LINE
	INDICATES NEW
	INDICATES EXISTING (TO REMAIN)
	DEMOLITION/ REMOVED
	DOMESTIC HOT WATER PIPING
	DOMESTIC COLD WATER PIPING
	COMPRESSED AIR PIPING
	STORM WATER PIPING
	SANITARY DRAIN PIPING
	VENT PIPING
	REFRIGERANT PIPING
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	HOT AIR SUPPLY DUCT
	COLD AIR SUPPLY DUCT
	HIGH PRESSURE SUPPLY AIR DUCT



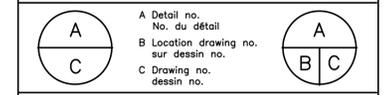
GENERAL NOTES

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- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

No.	Date	Revision	By: Par:
0	DEC. 2015	ISSUED FOR TENDER	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



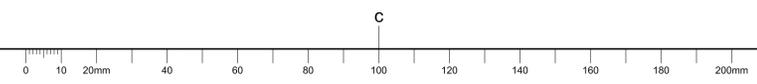
project **BUILDING M-58- GROUND FLOOR- SOUTH WING- RENOVATIONS FOR REPRO GRAPHICS** projet

MONTREAL ROAD CAMPUS

drawing **TITLE SHEET, AREA OF WORK, LEGENDS AND MECHANICAL DRAWING LIST** dessin

designed JWG	conçu	date NOV. 2015	date
drawn JWG	dessiné	scale AS INDICATED	échelle
checked ALS	vérifié	sheet 1 of/de 6	feuille
approved BV	approuvé	W.O.no. A1-006947	D.T.no.

dwg.no. **5083-M00** dessin no.



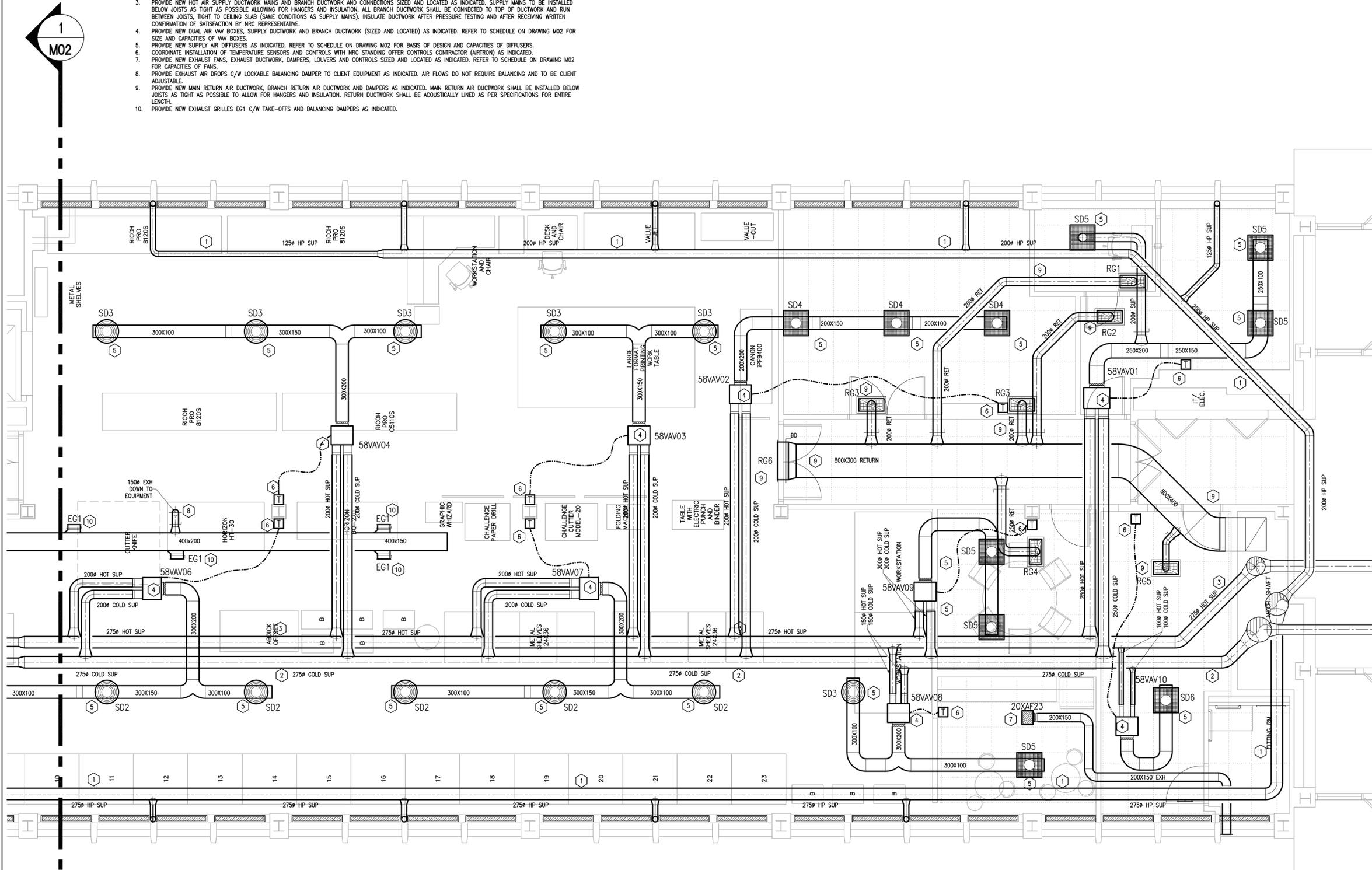
MECHANICAL DRAWING NOTES: (X)

- INSULATE ALL EXISTING PERIMETER HIGH PRESSURE SUPPLY AIR DUCTWORK MAIN AND BRANCHES AS INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW COLD AIR SUPPLY DUCTWORK MAINS AND BRANCH DUCTWORK AND CONNECTIONS SIZED AND LOCATED AS INDICATED. SUPPLY MAINS TO BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE ALLOWING FOR HANGERS AND INSULATION. ALL BRANCH DUCTWORK SHALL BE CONNECTED TO TOP OF DUCTWORK AND RUN BETWEEN JOISTS, TIGHT TO CEILING SLAB (SAME CONDITIONS AS SUPPLY MAINS). INSULATE DUCTWORK AFTER PRESSURE TESTING AND AFTER RECEIVING WRITTEN CONFIRMATION OF SATISFACTION BY NRC REPRESENTATIVE.
- PROVIDE NEW HOT AIR SUPPLY DUCTWORK MAINS AND BRANCH DUCTWORK AND CONNECTIONS SIZED AND LOCATED AS INDICATED. SUPPLY MAINS TO BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE ALLOWING FOR HANGERS AND INSULATION. ALL BRANCH DUCTWORK SHALL BE CONNECTED TO TOP OF DUCTWORK AND RUN BETWEEN JOISTS, TIGHT TO CEILING SLAB (SAME CONDITIONS AS SUPPLY MAINS). INSULATE DUCTWORK AFTER PRESSURE TESTING AND AFTER RECEIVING WRITTEN CONFIRMATION OF SATISFACTION BY NRC REPRESENTATIVE.
- PROVIDE NEW DUAL AIR VAV BOXES, SUPPLY DUCTWORK AND BRANCH DUCTWORK (SIZED AND LOCATED) AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR SIZE AND CAPACITIES OF VAV BOXES.
- PROVIDE NEW SUPPLY AIR DIFFUSERS AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR BASIS OF DESIGN AND CAPACITIES OF DIFFUSERS.
- COORDINATE INSTALLATION OF TEMPERATURE SENSORS AND CONTROLS WITH NRC STANDING OFFER CONTROLS CONTRACTOR (AIRTRON) AS INDICATED.
- PROVIDE NEW EXHAUST FANS, EXHAUST DUCTWORK, DAMPERS, LOUVERS AND CONTROLS SIZED AND LOCATED AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR CAPACITIES OF FANS.
- PROVIDE EXHAUST AIR DROPS C/W LOCKABLE BALANCING DAMPER TO CLIENT EQUIPMENT AS INDICATED. AIR FLOWS DO NOT REQUIRE BALANCING AND TO BE CLIENT ADJUSTABLE.
- PROVIDE NEW MAIN RETURN AIR DUCTWORK, BRANCH RETURN AIR DUCTWORK AND DAMPERS AS INDICATED. MAIN RETURN AIR DUCTWORK SHALL BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE TO ALLOW FOR HANGERS AND INSULATION. RETURN DUCTWORK SHALL BE ACOUSTICALLY LINED AS PER SPECIFICATIONS FOR ENTIRE LENGTH.
- PROVIDE NEW EXHAUST GRILLES EG1 C/W TAKE-OFFS AND BALANCING DAMPERS AS INDICATED.



GENERAL NOTES

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- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
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- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.



M-58- PARTIAL GROUND FLOOR PLAN
 HVAC- NEW WORK

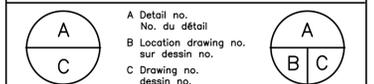
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M01

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M02

0	DEC. 2015	ISSUED FOR TENDER	JWG
No.	Date	Revision	By: Par:
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-58- GROUND FLOOR- SOUTH WING- RENOVATIONS FOR REPRO GRAPHICS

project

drawing
HVAC NEW WORK- PART PLAN

dessin

designed JWG	conçu	date NOV. 2015	date
drawn JWG	dessiné	scale AS INDICATED	échelle
checked ALS	vérifié	sheet 2 of/de 6	feuille
approved BV	approuvé	W.O.no. A1-006947	D.T.no.

dwg.no.
5083-M01

dessin no.



GENERAL NOTES

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- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

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- PROVIDE NEW COLD AIR SUPPLY DUCTWORK MAINS AND BRANCH DUCTWORK AND CONNECTIONS SIZED AND LOCATED AS INDICATED. SUPPLY MAINS TO BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE ALLOWING FOR HANGERS AND INSULATION. ALL BRANCH DUCTWORK SHALL BE CONNECTED TO TOP OF DUCTWORK AND RUN BETWEEN JOISTS, TIGHT TO CEILING SLAB (SAME CONDITIONS AS SUPPLY MAINS). INSULATE DUCTWORK AFTER PRESSURE TESTING AND AFTER RECEIVING WRITTEN CONFIRMATION OF SATISFACTION BY NRC REPRESENTATIVE.
- PROVIDE NEW HOT AIR SUPPLY DUCTWORK MAINS AND BRANCH DUCTWORK AND CONNECTIONS SIZED AND LOCATED AS INDICATED. SUPPLY MAINS TO BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE ALLOWING FOR HANGERS AND INSULATION. ALL BRANCH DUCTWORK SHALL BE CONNECTED TO TOP OF DUCTWORK AND RUN BETWEEN JOISTS, TIGHT TO CEILING SLAB (SAME CONDITIONS AS SUPPLY MAINS). INSULATE DUCTWORK AFTER PRESSURE TESTING AND AFTER RECEIVING WRITTEN CONFIRMATION OF SATISFACTION BY NRC REPRESENTATIVE.
- PROVIDE NEW DUAL AIR VAV BOXES, SUPPLY DUCTWORK AND BRANCH DUCTWORK (SIZED AND LOCATED) AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR SIZE AND CAPACITIES OF VAV BOXES.
- PROVIDE NEW SUPPLY AIR DIFFUSERS AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR BASIS OF DESIGN AND CAPACITIES OF DIFFUSERS.
- COORDINATE INSTALLATION OF TEMPERATURE SENSORS AND CONTROLS NRC WITH STANDING OFFER CONTROLS CONTRACTOR (AIRTRON) AS INDICATED.
- PROVIDE NEW EXHAUST FANS, EXHAUST DUCTWORK, DAMPERS, LOUVERS AND CONTROLS SIZED AND LOCATED AS INDICATED. REFER TO SCHEDULE ON DRAWING M02 FOR CAPACITIES OF FANS.
- PROVIDE EXHAUST AIR DROPS C/W LOCKABLE BALANCING DAMPER TO CLIENT EQUIPMENT AS INDICATED. AIR FLOWS DO NOT REQUIRE BALANCING AND TO BE CLIENT ADJUSTABLE.
- PROVIDE NEW MAIN RETURN AIR DUCTWORK, BRANCH RETURN AIR DUCTWORK AND DAMPERS AS INDICATED. MAIN RETURN AIR DUCTWORK SHALL BE INSTALLED BELOW JOISTS AS TIGHT AS POSSIBLE TO ALLOW FOR HANGERS AND INSULATION. RETURN DUCTWORK SHALL BE ACOUSTICALLY LINED AS PER SPECIFICATIONS FOR ENTIRE LENGTH.
- PROVIDE NEW EXHAUST GRILLES E01, TAKE OFFS AND BALANCING DAMPERS AS INDICATED FOR GENERAL EXHAUST.
- INSTALL NEW CONTROLLER AND CONTROL WIRING FOR EXISTING AIR CONDITIONING UNIT 58PAS05 AS INDICATED.

LOUVER, DIFFUSER AND GRILLE SCHEDULE					
TAG	TYPE	SIZE (MM)	INLET/OUTLET	AIR FLOW	REMARKS
SD1	ROUND	450#	150#	56 L/S	NEW
SD2	ROUND	450#	150#	71 L/S	NEW
SD3	ROUND	450#	200#	106 L/S	NEW
SD4	PERFORATED	600X600	---	68 L/S	NEW
SD5	PERFORATED	600X600	---	82 L/S	NEW
SD6	PERFORATED	600X600	---	94 L/S	NEW
---	---	---	---	---	---
RG1	EGG-CRATE	600X300	200#	82 L/S	NEW
RG2	EGG-CRATE	600X300	250#	165 L/S	NEW
RG3	EGG-CRATE	600X300	200#	104 L/S	NEW
RG4	EGG-CRATE	600X300	250#	188 L/S	NEW
RG5	EGG-CRATE	600X300	150#	94 L/S	NEW
RG6	LOUVER FACE	900X400	800X300	1800 L/S	NEW
EG1	LOUVER FACE	350X150	300X100	70 L/S	NEW
---	---	---	---	---	---
LV1	EXHAUST	1100X400	1000X300	585 L/S	NEW
LV2	EXHAUST	350X250	250X150	71 L/S	NEW

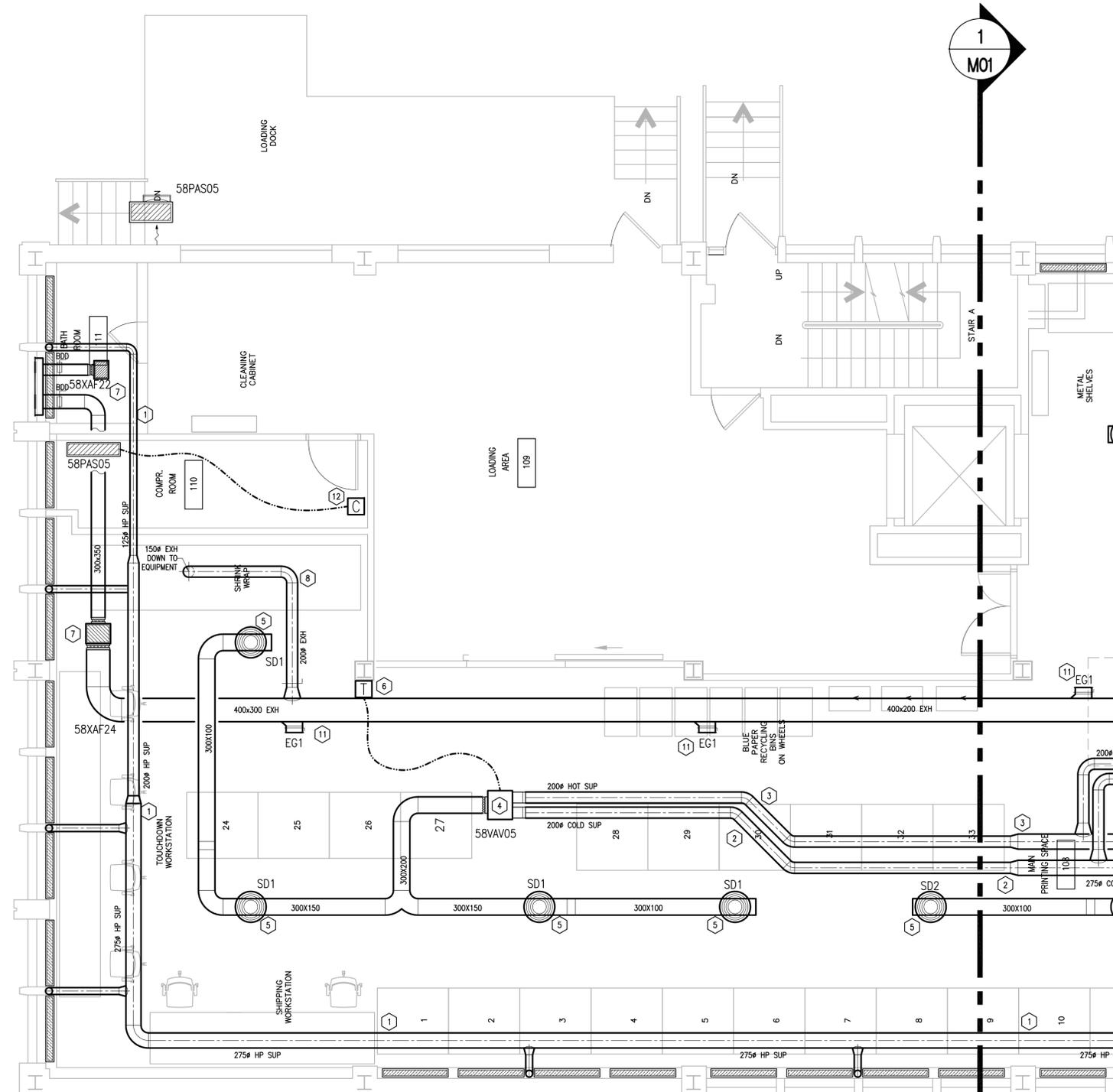
- NOTES:
- DIFFUSER TYPES SD1, SD2 AND SD3 ARE BASED ON E.H. PRICE MODEL RCD, COLOUR WHITE. ALL DIFFUSERS ARE TO BE 450# (18") WITH INLETS AS INDICATED.
 - DIFFUSER TYPES SD4, SD5 AND SD6 ARE BASED ON E.H. PRICE MODEL PON, COLOUR WHITE.
 - RETURN GRILLES RG1, RG2, RG3, RG4 AND RG5 ARE BASED ON E.H. PRICE MODEL 80, COLOUR WHITE C/W RETURN BOX. CEILING IS NOT TO BE USED AS A RETURN AIR PLENUM.
 - RETURN GRILLE RG6 IS BASED ON A E.H. PRICE MODEL 720, ALUMINIUM FINISH C/W 25MM BORDER AND BALANCING DAMPER.
 - EXHAUST GRILLE E01 IS BASED ON A E.H. PRICE MODEL 700, ALUMINIUM FINISH C/W BALANCING DAMPER.
 - LOUVERS LV1 AND LV2 ARE BASED ON TAMCO MODEL 4000 EXHAUST LOUVERS.

EXHAUST FAN SCHEDULE											
No.	LOCATION	DRIVE TYPE	FAN TYPE	L/S	S.P. (Pa.)	FAN RPM	SONES	VOLTAGE	AMPS	WATTS	REMARKS
58XAF22	WASHROOM	DIRECT	CENTRIFUGAL	47	62	1400	1.5	120/1/60	1.3	113	NEW
58XAF23	KITCHENETTE	DIRECT	CENTRIFUGAL	71	62	1400	2.0	120/1/60	1.3	113	NEW
58XAF24	RM. SG-08	BELT	CABINET	585	186	1000	11.2	120/1/60	---	375	NEW

- NOTE:
- FAN 58XAF22 IS BASED ON A GREENHECK MODEL SP-A110 C/W UNIT MOUNTED SPEED CONTROLLER FOR BALANCING, TIME DELAY SWITCH (INTERCONNECTED WITH LIGHT SWITCH) AND HOODED WALL CAP C/W BIRDSCREEN. EXHAUST FAN TO BE MOUNTED ON MANUFACTURER SUPPLIED VIBRATION ISOLATORS.
 - FAN 58XAF23 IS BASED ON A GREENHECK MODEL SP-A190 C/W UNIT MOUNTED SPEED CONTROLLER AND IS TO BE INTERCONNECTED WITH KITCHENETTE LIGHTS. (LIGHTS ON, FAN ON - LIGHTS OFF, FAN OFF).
 - FAN 58XAF24 IS BASED ON A GREENHECK MODEL BDF-90 C/W UNIT MOUNTED SPEED CONTROLLER, VIBRATION ISOLATION MOUNTS, FLEXIBLE CONNECTIONS ON INLET AND OUTLET AND IS TO BE CONTROLLER VIA A START/STOP MOUNTED ON THE WALL.
 - EXHAUST FANS 58XAF22 AND 58XAF24 ARE CONNECTED TO A COMBINED 1000X300 EXHAUST PLENUM BEHIND LOUVER LV1.
 - EXHAUST FAN 58XAF23 IS EXHAUSTED THROUGH LOUVER LV2.

VARIABLE AIR VOLUME (VAV) SCHEDULE											
No.	LOCATION	INLET SIZE (MM)	MAX AIR FLOW (L/S)	MIN AIR FLOW (L/S)	S.P. (Pa)	REHEAT (Y/N)	SONES	VOLTAGE	CONTROLS	ATTENUATOR (MM X MM)	REMARKS
58VAV01	ROOM 104	250#/250#	247	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV02	ROOM 106	200#/200#	205	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV03	ROOM 108	200#/200#	213	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV04	ROOM 108	200#/200#	318	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV05	ROOM 108	200#/200#	224	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV06	ROOM 108	200#/200#	213	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV07	ROOM 108	200#/200#	213	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV08	ROOM 108	150#/150#	188	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV09	ROOM 103	200#/200#	164	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
58VAV10	ROOM 102	100#/100#	94	---	250	NO	N/A	24 VDC	DDC	NONE	NEW
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- NOTE:
- NEW VAV TERMINAL UNITS ARE BASED ON E.H. PRICE MODEL DDS DUAL DUCT VAV C/W ACOUSTICALLY LINED SUPPLY PLENUM. CONTROLS SHALL BE SUPPLIED BY AIRTRON

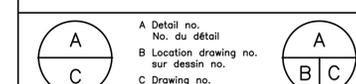


M-58- PARTIAL GROUND FLOOR PLAN
 HVAC- NEW WORK
 SCALE: 1:50

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- Verify all dimensions and site conditions and be responsible for same
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project
BUILDING M-58- GROUND FLOOR- SOUTH WING- RENOVATIONS FOR REPRO GRAPHICS
 projet

MONTREAL ROAD CAMPUS
 drawing
HVAC NEW WORK- PART PLAN
 dessin

designed
JWG
 conçu
NOV. 2015
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A1-006947
 D.T.no.

dwg.no.
5083-M02
 dessin no.

GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

MECHANICAL DRAWING NOTES:

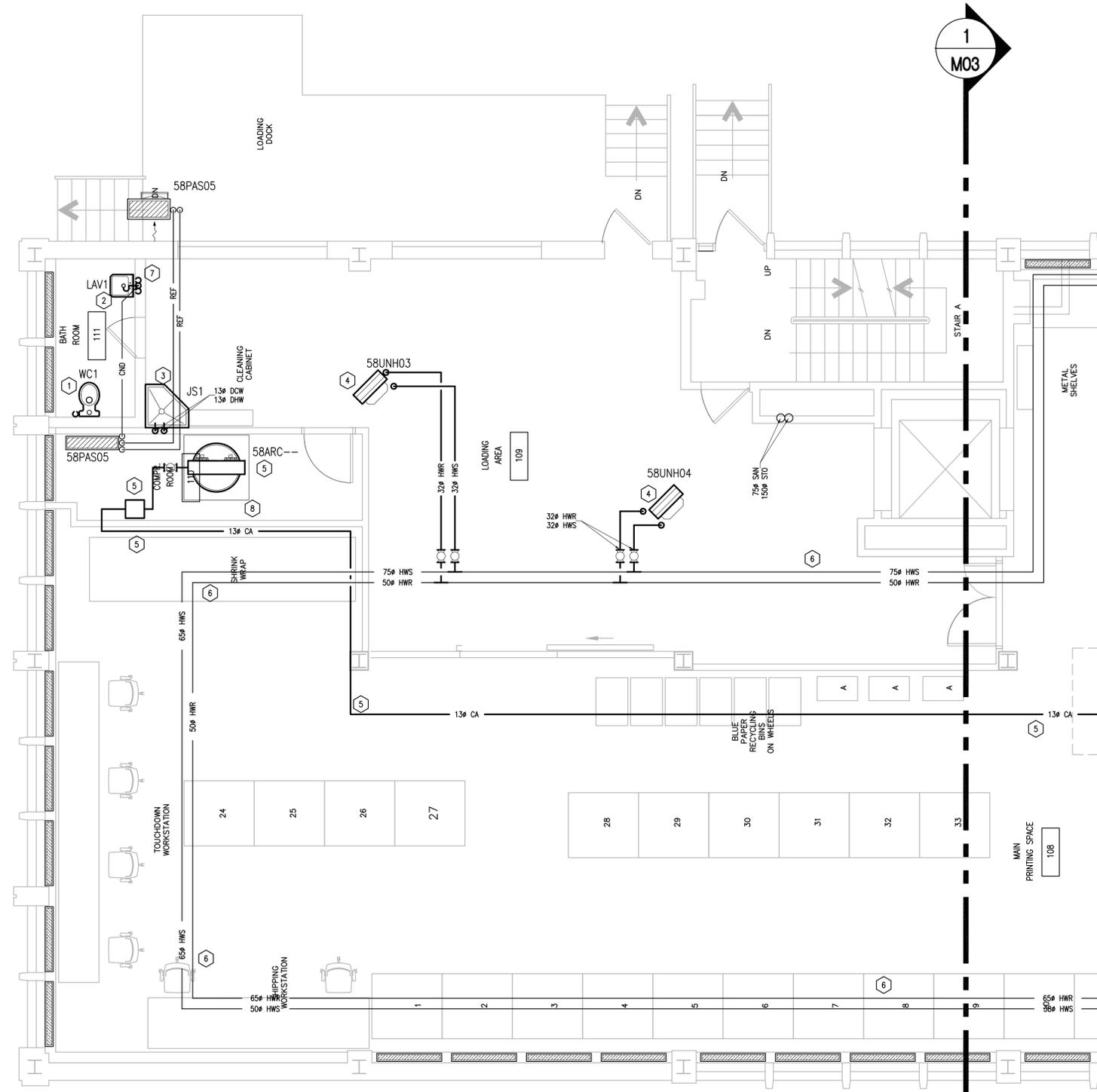
- PROVIDE NEW WATER CLOSET, ASSOCIATED SEAT, FLUSHVALVE, DOMESTIC COLD WATER (DCW) PIPING C/W ISOLATION VALVE AND SANITARY PIPING AND CONNECT TO EXISTING SERVICES AS INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW LAVATORY SINK (LAV1), ASSOCIATED TRIM, DOMESTIC HOT WATER, DOMESTIC COLD WATER AND SANITARY PIPING AS INDICATED. PROVIDE NEW ISOLATION VALVES ON DCW AND DHW PIPING AND CONNECT TO EXISTING SERVICES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW JANITORIAL SINK (JS1), ASSOCIATED TRIM, DOMESTIC HOT WATER (DHW), DOMESTIC COLD WATER (DCW) AND SANITARY (SAN) PIPING AS INDICATED. SCAN FLOOR BEFORE CORING TO DETERMINE IF INTERFERENCES EXIST. PROVIDE ISOLATION VALVES ON DCW AND DHW PIPING AND CONNECT TO EXISTING SERVICES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW UNIT HEATERS (58UNH03 AND 58UNH04), ASSOCIATED HEATING WATER SUPPLY (HWS) AND HEATING WATER RETURN (HWR) PIPING, CONTROLS AND ISOLATION VALVES AS INDICATED. CONNECT TO EXISTING BUILDING SERVICES.
- INSTALL CLIENT AIR COMPRESSOR AND AIR DRYER AS INDICATED. PROVIDE NEW COMPRESSED AIR PIPING, ISOLATION VALVES, BRANCH CONNECTIONS C/W THREADED CONNECTORS. PIPING TO BE LABELLED AFTER COMPLETION OF PRESSURE TESTING. OBTAIN LABELS FROM NRC REPRESENTATIVE.
- PROVIDE NEW INSULATION ON ALL HEATING WATER SUPPLY (HWS) AND HEATING WATER RETURN (HWR) PIPING AS PER SPECIFICATIONS. PIPING SHALL BE JACKETED WITH PVC, COLOUR WHITE AND BE LABELLED AFTER COMPLETION OF INSULATION INSTALLATION. OBTAIN LABELS FROM NRC REPRESENTATIVE.
- PROVIDE INSULATION ON ALL DOMESTIC HOT WATER (DHW) AND DOMESTIC COLD WATER (DCW) AS PER SPECIFICATIONS. PIPING SHALL BE PVC JACKETED, COLOUR WHITE AND SHALL BE LABELLED AFTER COMPLETION OF INSULATION INSTALLATION. OBTAIN LABELS FROM NRC REPRESENTATIVE.
- PROVIDE NEW SOUND ABSORPTION MAT UNDER AIR COMPRESSOR AS INDICATED. NOMINAL MAT DIMENSIONS ARE 1200X1200 (4FTX4FT) AND THE MAT IS TO BE CONSTRUCTED OF RAPRA TESTED AND CONSTRUCTED OF EPDM POLYMER, TENSILE STRENGTH OF 4 MPa, COLOUR BLACK, 30MM MINIMUM THICKNESS TO 45MM MAXIMUM THICKNESS.

FIXTURE SCHEDULE							
TAG	FIXTURE TYPE	DCW	DHW	DW	SAN	VENT	REMARKS
LAV1	SINK	13#	13#	N/A	38#	32#	NEW
WC1	WATER CLOSET	20#	N/A	N/A	100#	50#	NEW
JS1	JAN. SINK	13#	13#	N/A	75#	32#	NEW
SI	KITCHEN SINK	13#	13#	N/A	38#	32#	NEW

- NOTES:**
- NEW LAVATORY (LAV1) IS BASED ON AN AMERICAN STANDARD MODEL MURRO C/W KNEE GUARD AND AMERICAN STANDARD FAUCET MODEL MONTERREY. ALL NEW DOMESTIC COLD, DOMESTIC HOT TO BE INSULATED AS PER SPECIFICATIONS.
 - NEW WATER CLOSET (WC1) IS BASED ON AN AMERICAN STANDARD "MADERA" (TOP SPUD - FLOOR MOUNTED) C/W MANUAL AMERICAN STANDARD (1-1/2" TOP SPUD) FLUSHMETER MODEL 6047.161.002 AND AMERICAN STANDARD MODEL 5905.110 EXTRA HEAVY DUTY SEAT.
 - NEW JANITOR'S SINK IS BASED ON A FIAT TERRAZZO TBSC6010 C/W AMERICAN STANDARD MODEL 8344012 EXPOSED YOKE FAUCET.
 - NEW KITCHEN SINK (SI) IS BASED ON A FRANKE LBS2708, 3 HOLE SINK C/W A MOEN MODEL 87017 FAUCET.
 - ALL SANITARY PIPING TO BE SLOPED AS PER NATIONAL BUILDING CODE STANDARDS (NBC) AFTER RUN IN CEILING PLENUM.
 - VENT PIPING TO BE CONNECTED TO EXISTING VENT PIPING CORNER OF ROOM 030 AS INDICATED.

UNIT HEATER SCHEDULE											
No.	LOCATION	NOMINAL CAPACITY	ACTUAL CAPACITY	EWI (°C)	LWT (°C)	EAT (°C)	LAT (°C)	VOLTAGE	AMPS	MOTOR (HP)	REMARKS
58UNH03	RM 109	23.7 kW	22.3 kW	82.2	71.1	10.0	43.3	120/1/60	1.3	1/8	NEW
58UNH04	RM 109	23.7 kW	22.3 kW	82.2	71.1	10.0	43.3	120/1/60	1.3	1/8	NEW
--	--	--	--	--	--	--	--	--	--	--	--

- NOTE:**
- NEW UNIT HEATERS ARE BASED ON DAKIN HORIZONTAL MODEL UHH-108 C/W WALL MOUNTED CONTROLLER, FINGER GUARD, POWDER COATED EXTERIOR AND ADJUSTABLE LOUVERS.



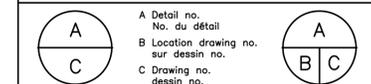
1 M04
M-58- PARTIAL GROUND FLOOR PLAN
PLUMBING AND UTILITIES- NEW WORK
 SCALE: 1:50

1 M03

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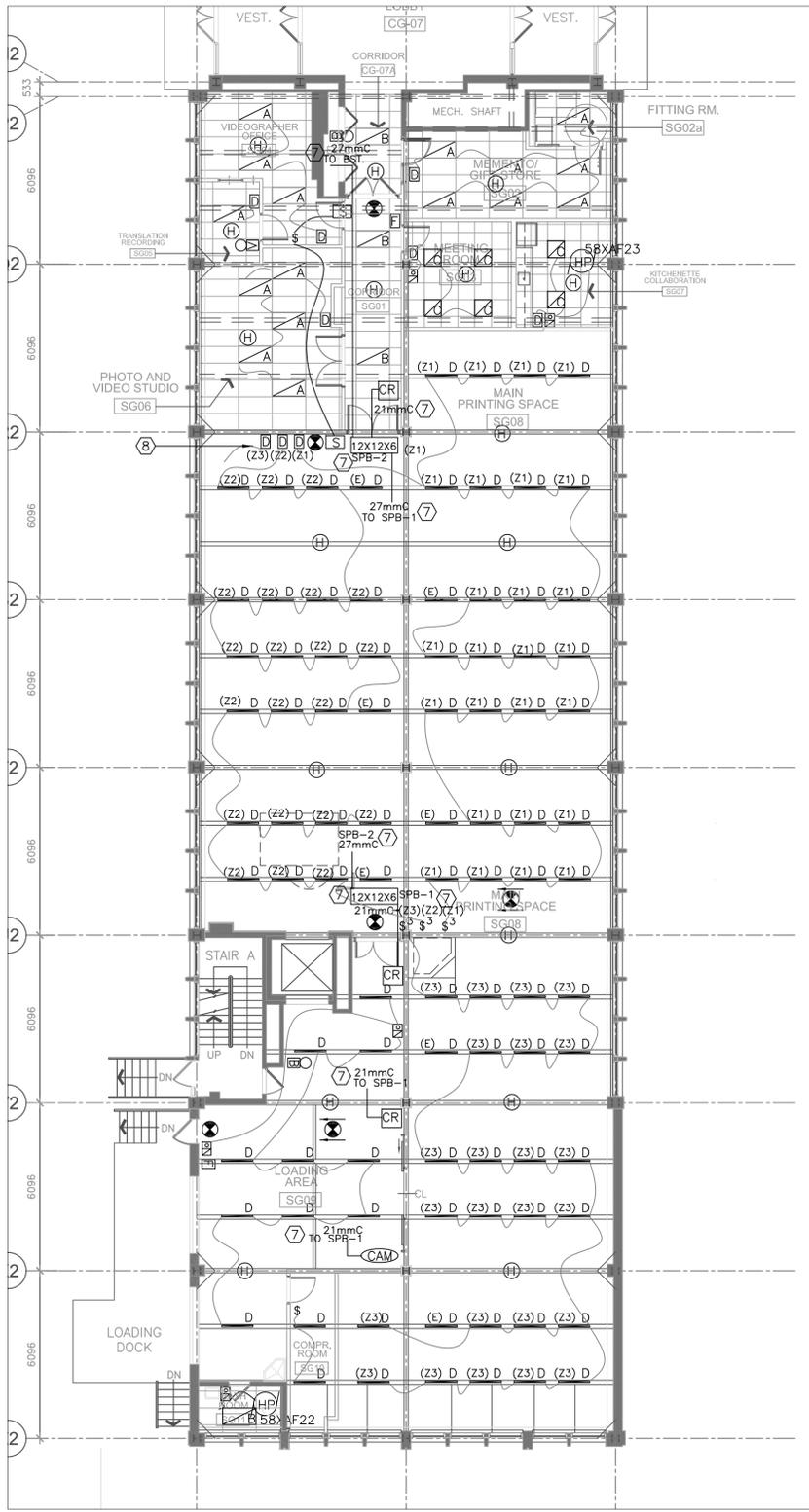
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- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



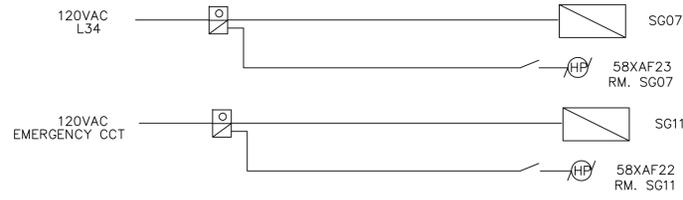
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drawing **PLUMBING AND UTILITIES NEW WORK- PART PLAN** dessin

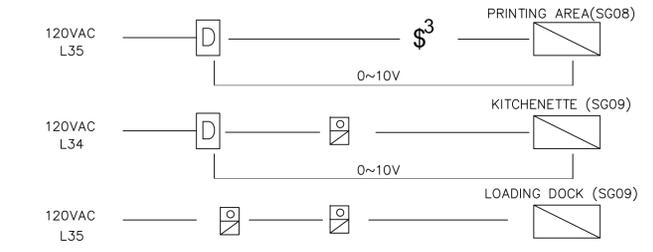
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checked ALS	vérifié ALS	sheet 5 of/de 6	feuille
approved BV	approuvé BV	W.O.no. A1-006947	D.T.no.
dwg.no. 5083-M04	dessin no.		



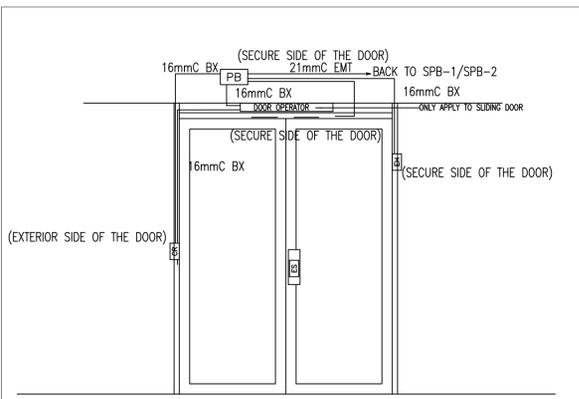
1
E01
GROUND FLOOR SOUTH WING
LIGHTING, F/A & SECURITY PLAN
SCALE: 1:125



2
E01
SG07,SG11 LIGHTING/VENT CONTROL
SCALE:



3
E01
TYPICAL LIGHTING CONTROL
SCALE:



NOTE:
DOOR SECURITY DEVICES TO BE PROVIDED BY OTHERS. DIV.26 TO PROVIDE PULL BOX AND CONDUITS C/W PULLING STRING AS SHOWN. COORDINATE WORK WITH DOOR INSTALLATION AND SECURITY CONTRACTOR.

SECURITY LEGEND	
SYMBOL	DESCRIPTION
[PB]	200mmX200mmX100 JUNCTION BOX
[BX]	DOOR CONTACT BY OTHERS
[RE]	REQUEST TO EXIT BY OTHERS
[EH]	ELECTRIC HINGE REFER TO ARCH.
[ES]	ELECTRIC STRIKE SUPPLIED AND PRE-WIRED BY DOOR SUPPLIER REFER TO ARCH.
[CR]	CARD READER BY OTHERS
[C]	HANDICAPPED DOOR PUSH BUTTON

4
E01
DOOR SECURITY DETAIL
SCALE:

DRAWING NOTES

- PROVIDE NEW LIGHTING FIXTURES AS SHOWN.
 - TYPE A: PHILIPS CFI SPECPLUS 2'X4' RECESSED LED LUMINAIRE, 4300 LUMEN, 4000K, 0-10V DIMMING, 120V CAT: SPS24GFSVA43A40UDZT
 - TYPE B: PHILIPS CFI SPECPLUS 2'X4' RECESSED LED LUMINAIRE, 3300 LUMEN, 3500K, 0-10V DIMMING, 120V CAT: SPS24GFSVA33A35UDZT
 - TYPE C: PHILIPS CFI SPECPLUS 2'X2' RECESSED LED LUMINAIRE, 3800 LUMEN, 4000K, 0-10V DIMMING, 120V CAT: SPS22GFSVA38A40UDZT
 - TYPE D: PHILIPS CFI FLUXSTREAM LINEAR LED, 3900 LUMEN, 4000K, 0-10V DIMMING, 120V, 4' LENGTH CAT: LF4FR3940UDZT
- REUSE EXISTING EMERGENCY CIRCUIT, PROVIDE ADDITIONAL WIRING TO NEW DEVICES. REFER TO E05
- PROVIDE LIGHTING CONTROL
 - WALL MOUNT, WHITE COLOR. FLUSH MOUNT ON NEW DRY WALL, SURFACE MOUNT ON EXISTING WALL, REFER TO ARCH. DWG.
 - DIMMING SWITCH: PHILIPS SUNRISE, SR1200ZTUNV, SINGLE-POLE, 3-WAY, PROVIDE SEPARATE 0-10V WIRING.
 - OCCUPANCY SENSOR: PHILIPS OCCUSWITCH MULTI-TECH, LRS2215, DUAL DELAY, PROGRAM FOR 15MIN OFF DELAY
 - LIGHTING SWITCH: HUBBELL, LEVITON OR PHILIPS.
- PROVIDE LED PICTOGRAM EXIT LIGHT
 - LUMACELL LS SERIES, 120VAC ONLY, -120VAC CIRCUIT AS PER LINE DIAGRAM
- PROVIDE LED STUDIO ON SIGN
 - LUMACELL LS SERIES, 120VAC ONLY, SINGLE FACE
 - REPLACE FACTORY PICTOGRAM WITH CUSTOMIZED FACE BY NRC.
 - 120VAC CIRCUIT AS PER LINE DIAGRAM
- PROVIDE NEW FIRE ALARM DEVICES
 - CHUBB EDWARDS ADDRESSABLE DEVICE AS PER SPEC
 - F/A STROBE AS PER SPEC
 - PROVIDE NEW CLASS A INITIATING DIGITAL LOOP CIRCUIT TO EXISTING FACP LOCATED AT RM. WG22, APPROXIMATE DISTANCE IS 75M, EXTEND LOOP WIRING TO NEW INITIATING DEVICES.
 - PROVIDE ISOLATION MODULES WHERE LOOP WIRING ENTER AND LEAVE THIS AREA AND INTERFACE MODULES IN FACP.
 - IDENTIFY EXISTING SIGNAL CIRCUIT FOR GROUND FLOOR SOUTH WING, PROVIDE WIRING TO NEW SIGNAL DEVICES.
 - CHUBB EDWARDS TO PERFORM VERIFICATION TEST.
- PROVIDE WIRING AND FLEX CONNECTION TO EXHAUST FAN, REFER TO DIV. 23
 - 20A, 1P INDUSTRIAL GRADE SERVICE SWITCH ON FAN.
- PROVIDE SECURITY RACEWAY WORK
 - PROVIDE 4X4X4 PULL BOX FOR EACH CARD READER, LOCATION AS PER NRC ON SITE.
 - PROVIDE (2) 12X12X6 PULL BOX, LABEL AS SPB-1 AND SPB-2
 - PROVIDE EMPTY CONDUIT AS SHOWN AND PULL STRING.
 - WIRES BY OTHERS
- LIGHTING SWITCH HERE SHALL BE LOCATED CLOSE TO THE DOOR.

LEGEND

SYMBOL	DESCRIPTION
[A]	2x4 LIGHTING FIXTURE TYPE "A" (1)
[B]	2x4 LIGHTING FIXTURE TYPE "B", CCT. FROM EL6 (1)
[C]	2x2 LIGHTING FIXTURE TYPE "C" (1)
(Z) D	LINEAR STRIP LIGHTING FIXTURE TYPE "D", ZONE X (1)
(E) D	LINEAR STRIP LIGHTING FIXTURE TYPE "D", CCT FROM EL6 (1)
[EXIT]	EXIT SIGN, STRAIGHT PICTOGRAM (3)
[EXIT]	EXIT SIGN, LEFT PICTOGRAM, DOUBLE FACE (3)
[F/A]	F/A PULL STATION (5)
[H]	F/A INTELLIGENT HEAT DETECTOR (5)
[BELL]	EXISTING F/A BELL (5)
[STROBE]	F/A STROBE (5)
[SIGN]	"STUDIO ON" SIGN (4)
[D]	0-10V DIMMING SWITCH (2)
[SENSOR]	OCCUPANCY SENSOR (2)
[S3]	3-WAY LIGHTING SWITCH (2)
[S1]	1-WAY LIGHTING SWITCH (2)
[HP]	MOTOR, EXHAUST FAN (6)
[CR]	SECURITY CARD READER (7)
[CAM]	SECURITY CAMERA (7)



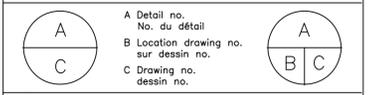
GENERAL NOTES

- READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- 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.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.
- FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
- REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
- PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL PLACEMENT OF LIGHT FIXTURES.
- ALL WIRE TO BE IN EMT UNLESS OTHERWISE NOTED.
- OUTAGE IS ONLY SCHEDULED DURING WEEKEND OR AFTER HOUR, UNLESS OTHERWISE SPECIFIED BY NRC REPRESENTATIVE
 - WEEKEND OUTAGE MUST BE CARRIED BETWEEN FRIDAY 1800 AND MONDAY 0300
 - AFTER HOUR OUTAGE MUST BE CARRIED BETWEEN SAME DAY 1800 AND NEXT DAY 0300
 - ALL LOADS TO BE RESUMED AT THE END OF OUTAGE

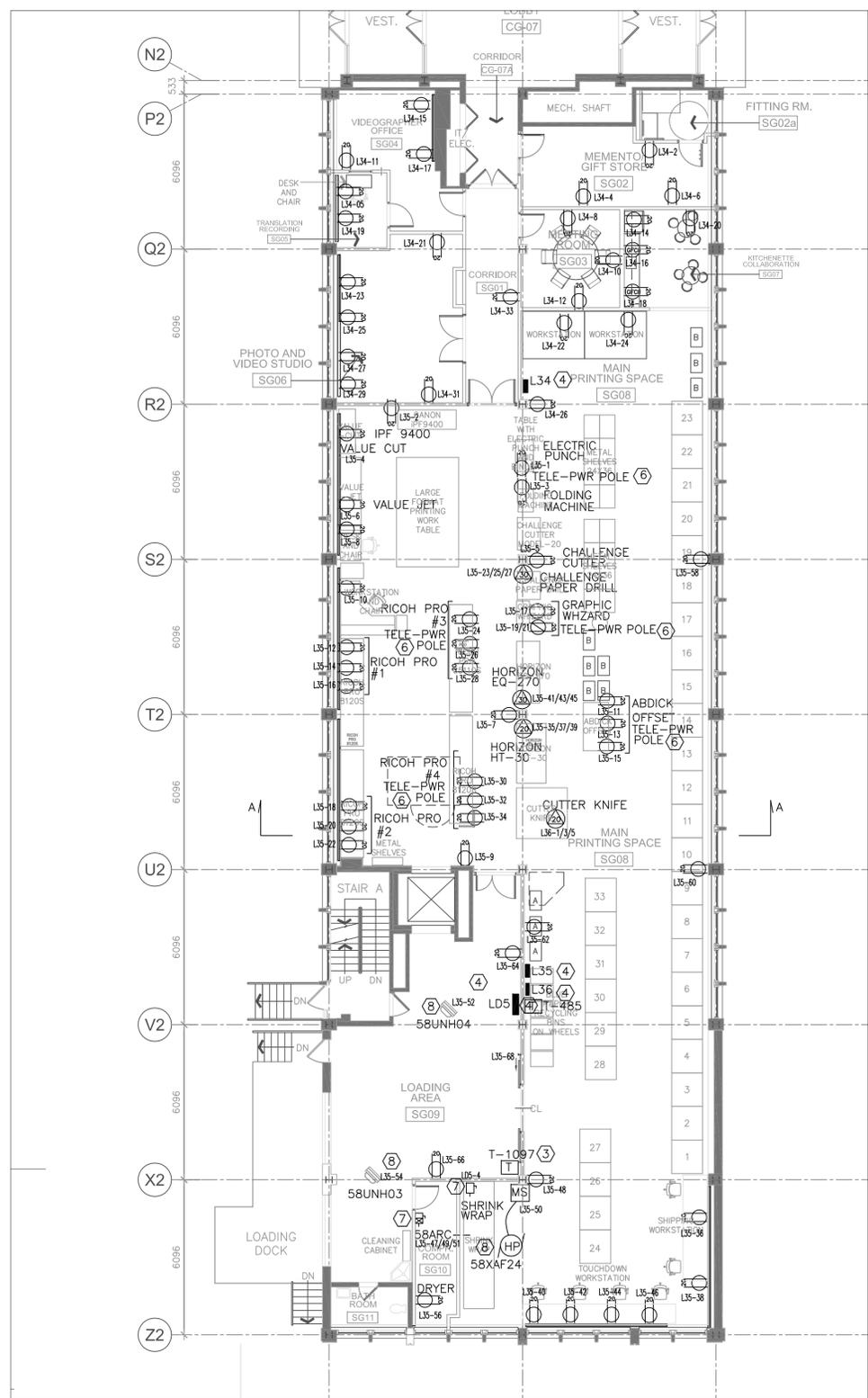
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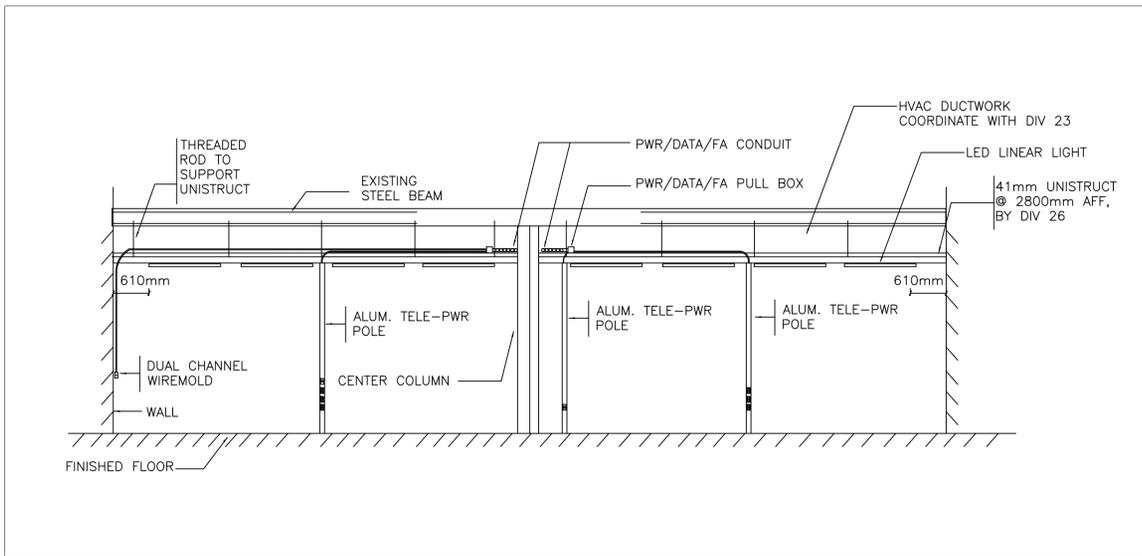
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approved	approuvé	W.O.no.	D.T.no.
DIF			
dwg.no.	dessin no.		
5083-E01			



1 GROUND FLOOR SOUTH WING POWER SERVICE PLAN
E02 SCALE: 1:125

LEGEND

SYMBOL	DESCRIPTION	
	5-20R, DUPLEX	(2)
	5-20R, DUPLEX, GFCI	(2)
	DUAL CHANNEL WIREMOLD RACEWAY	(1)
	6-20R	(2)
	6-30R	(2)
	L6-30R	(2)
	L15-20R	(2)
	L15-30R	(2)
	ELECTRICAL PANEL	(4)
	DRY TYPE TRANSFORMER	(3)
	MOTOR MANUAL STARTER	(8)
	UNIT HEATER	(8)
	MOTOR, EXHAUST FAN	(8)



2 GROUND FLOOR SOUTH WING SECTION A-A (5)
E02 SCALE:

DRAWING NOTES

- PROVIDE LEGRAND/WIREMOLD DUAL CHANNEL RACEWAY, NON-METALLIC, CAT: CABLESMART 40N2, C/W ALL DIVIDERS AND FACEPLATES AND OTHER ACCESSORIES
- PROVIDE RECEPTACLE AS SHOWN, - FLUSHED WALL MOUNT ON NEW DRY WALL, SURFACE MOUNT ON EXISTING WALL, REFER TO ARCH DRAWING. - SURFACE MOUNT IN OTHER AREAS. - EACH RECEPTACLE IS FED FROM DEDICATED CIRCUIT, REFER TO LINE DIAGRAM. - RECEPTACLE DEDICATED FOR EXISTING PRINTING EQUIPMENT, CONTRACTOR SHALL VERIFY THE TYPE TO MATCH EXISTING PLUG. - COORDINATE WITH NRC FOR FINAL LOCATION
- PROVIDE FLOOR MOUNTED HAMMOND DRY TYPE TRANSFORMER, REFER TO LINE DIAGRAM.
- PROVIDE NEW SQ D PANEL, REFER TO LINE DIAGRAM.
- PROVIDE UNISTRUT MESH AS PER DETAIL - SUPPORT FROM EVERY EXISTING STEEL BEAM. - CONTRACTOR TO CARRY STRUCTURAL ENGINEER TO CERTIFY SEISMIC REQUIREMENT IS MET. PROVIDE STAMPED DESIGN FROM P. ENG.
- PROVIDE ALUMINUM DUAL CHANNEL JIFFY POLE IN PRINTING AREA - LEGRAND/WIREMOLD TELE-POWER POLE, NP800 C/W ALL DIVIDERS AND FACEPLATES AND OTHER ACCESSORIES - COORDINATE WITH NRC FOR FINAL LOCATION
- EXISTING STARTER/DISCONNECT LOCATED AT EAST WING TO BE RELOCATED TO NEW LOCATION AS SHOWN.
- PROVIDE POWER TO NEW MECHANICAL EQUIPMENT. - PROVIDE MANUAL STARTER, TOGGLE TYPE, 1 POLE, "AUTO-OFF-HAND" SELECTOR, PILOT LIGHT, SQ D CLASS 2510, CAT:FG71P. - PROVIDE WIRING AND FLEX CONNECTION. REFER TO E03 AND DIV. 23 - 20A, 1P INDUSTRIAL GRADE SERVICE SWITCH ON FAN AND UNIT HEATER.
- INSTALL NRC SUPPLIED TRANSFORMER. CONTRACTOR TO PROVIDE OVERHEAD BRACKET AND CARRY STRUCTURAL ENGINEER TO CERTIFY SEISMIC REQUIREMENT IS MET. PROVIDE STAMPED DESIGN FROM P. ENG.

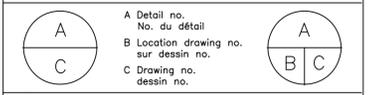


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- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
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- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
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- FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
- REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
- PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL PLACEMENT OF LIGHT FIXTURES.
- ALL WIRE TO BE IN EMT UNLESS OTHERWISE NOTED.
- OUTAGE IS ONLY SCHEDULED DURING WEEKEND OR AFTER HOUR, UNLESS OTHERWISE SPECIFIED BY NRC REPRESENTATIVE - WEEKEND OUTAGE MUST BE CARRIED BETWEEN FRIDAY 1800 AND MONDAY 0300 - AFTER HOUR OUTAGE MUST BE CARRIED BETWEEN SAME DAY 1800 AND NEXT DAY 0300 - ALL LOADS TO BE RESUMED AT THE END OF OUTAGE

No.	Date	Revision	By: Par:
0	DEC/2015	ISSUED FOR TENDER	KXL

Date Printed DD MM YYYY Date imprimée
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



project projet
BUILDING M-58
GROUND FLOOR SOUTH WING
ENNOVATION
MONTREAL ROAD CAMPUS
drawing dessin
POWER SERVICE PLAN

designed	conçu	date	date
KXL		DEC/2015	
drawn	dessiné	scale	échelle
KXL		AS NOTED	
checked	vérifié	sheet	feuille
DIF		E02 of/de E05	
approved	approuvé	W.O.no.	D.T.no.
DIF			

dwg.no. dessin no.
5083-E02



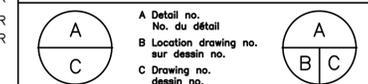
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project **BUILDING M-58** projet
GROUND FLOOR SOUTH WING
RENOVATION
 MONTREAL ROAD CAMPUS
 drawing **SINGLE LINE DIAGRAM** dessin

designed KXL	conçu DEC/2015	date	date
drawn KXL	dessiné AS NOTED	scale	échelle
checked DIF	vérifié E04	sheet of/de	feuille E05
approved DIF	approuvé	W.O.no.	D.T.no.
dwg.no. 5083-E04	dessin no.		

DRAWING NOTES

1. PROVIDE NEW SQ D PANEL C/W BREAKERS AS SHOWN.
 - PROVIDE DIRECTORY FOR EACH LOAD.
 - LSI+A: LSI TRIP UNIT AND AMMETER
 - LI: LI TRIP UNIT.
2. PROVIDE NEW WIRING AND CONNECTION
3. PROVIDE NECESSARY SPLICES AND EXTRA WIRING TO RE-FEED EXISTING LOADS.
4. PROVIDE NEW DRY TYPE HAMMOND TRANSFORMER.
5. EXISTING EQUIPMENT TO BE RELOCATED FROM EAST WING TO SOUTH WING.
6. INSTALL NRC SUPPLIED TRANSFORMER T-485, CONTRACTOR TO PROVIDE INSULATION TEST(MEGGER), AND TRANSPORT FROM BUILDING M19 TO SITE.

NO	DESCRIPTION	NO	DESCRIPTION
1	PAPER CUTTER	2	SPACE
3	HJA36060,LI,lr=30A	4	KITCHEN BOOSTER HEATER
5	HJA36150,LI,lr=60A	6	T-229 L25
7	JJA36250,LSI+A,lr=125A	8	T-1097 LD5
9	JJA36250,LSI+A,lr=125A	10	SPACE

PANEL P1
 400A, 600V, 3PH
 IC: 25KA COPPER BUSSING
 MAIN LUG, I-LINE, 32" WIDE TUB
 SOUTH ELEC. RM. 1, SQ D HCM

NO	DESCRIPTION	NO	DESCRIPTION
1	L34	2	L35
3	JJA36250,LSI+A,lr=150A	4	JJA36250,LSI+A,lr=200A
5	T-485	6	SHRINK WRAP
7	HJA36150,LSI+A,lr=50A	8	HJA36150,LI,lr=100A
9	SPACE	10	SPACE

PANEL LD5
 600A, 600V, 3PH
 COPPER BUSSING
 MAIN LUG, I-LINE
 ROOM SG09, SQ D HCM

LOAD DESCRIPTION	BKR SIZE	CKT NO	CKT SIZE	LOAD DESCRIPTION
ELECTRIC PUNCH	20	1	2	IPF 9400
FOLDING MACHINE	20	3	4	VALUE CUT
CHALLENGER CUTTER	20	5	6	VALUE JET
RM. SG08 SERVICE REC	20	7	8	RM. SG08 WEST WORKSTATION
RM. SG08 SERVICE REC	20	9	10	RM. SG08 WEST WORKSTATION
ABDICK OFFSET	20	11	12	RICOH PRO #1
ABDICK OFFSET	20	13	14	RICOH PRO #1
ABDICK OFFSET	20	15	16	RICOH PRO #1
GRAPHIC WHIZARD	20	17	18	RICOH PRO #2
GRAPHIC WHIZARD	20	19	20	RICOH PRO #2
CHALLENGER PAPER DRILL	30	21	22	RICOH PRO #2
CHALLENGER PAPER DRILL	30	23	24	RICOH PRO #3
CHALLENGER PAPER DRILL	30	25	26	RICOH PRO #3
CHALLENGER PAPER DRILL	30	27	28	RICOH PRO #3
CHALLENGER PAPER DRILL	30	29	30	RICOH PRO #4
CHALLENGER PAPER DRILL	30	31	32	RICOH PRO #4
CHALLENGER PAPER DRILL	30	33	34	RICOH PRO #4
CHALLENGER PAPER DRILL	30	35	36	RM.SG08 SHIPPING WORKSTATION
CHALLENGER PAPER DRILL	30	37	38	RM.SG08 SHIPPING WORKSTATION
CHALLENGER PAPER DRILL	30	39	40	RM.SG08 TOUCHDOWN WORKSTATION
CHALLENGER PAPER DRILL	30	41	42	RM.SG08 TOUCHDOWN WORKSTATION
CHALLENGER PAPER DRILL	30	43	44	RM.SG08 TOUCHDOWN WORKSTATION
CHALLENGER PAPER DRILL	30	45	46	RM.SG08 TOUCHDOWN WORKSTATION
CHALLENGER PAPER DRILL	30	47	48	RM. SG08 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	49	50	58XAF24
COMPRESSOR 58ARC-- RM. SG10	30	51	52	58UNH03
COMPRESSOR 58ARC-- RM. SG10	30	53	54	58UNH04
COMPRESSOR 58ARC-- RM. SG10	30	55	56	DRYER RM. SG10
COMPRESSOR 58ARC-- RM. SG10	30	57	58	RM. SG08 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	59	60	RM. SG08 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	61	62	RM. SG08 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	63	64	RM. SG09 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	65	66	RM. SG09 SERVICE REC
COMPRESSOR 58ARC-- RM. SG10	30	67	68	SLIDING DOOR OPERATOR
COMPRESSOR 58ARC-- RM. SG10	30	69	70	SPACE
COMPRESSOR 58ARC-- RM. SG10	30	71	72	SPACE

LOAD DESCRIPTION	BKR SIZE	CKT NO	CKT SIZE	LOAD DESCRIPTION
LIGHT RM. SG04,SG05,SG06	20	1	2	REC RM. SG02
LIGHT RM. SG02A,SG03,SG07	20	3	4	REC RM. SG02
LIGHT RM. SG08 ZONE 1	20	5	6	REC RM. SG02
LIGHT RM. SG08 ZONE 2	20	7	8	REC RM. SG03
LIGHT RM. SG08 ZONE 3	20	9	10	REC RM. SG03
REC. RM. SG04	20	11	12	REC RM. SG03
REC. RM. SG05	20	13	14	REC RM. SG07
REC. RM. SG04	20	15	16	REC RM. SG07
REC. RM. SG04	20	17	18	REC RM. SG07
REC. RM. SG05	20	19	20	REC RM. SG07
REC RM. SG06	20	21	22	RM.SG08 PRINTING WORKSTATION
REC RM. SG06	20	23	24	RM.SG08 PRINTING WORKSTATION
REC RM. SG06	20	25	26	RM. SG08 SERVICE REC
REC RM. SG06	20	27	28	"STUDIO" SIGN
REC RM. SG06	20	29	30	SPACE
REC RM. SG06	20	31	32	SPACE
REC CORR. SG01	20	33	34	SPACE
REC CORR. SG01	20	35	36	SPACE
REC CORR. SG01	20	37	38	SPACE
REC CORR. SG01	20	39	40	SPACE
REC CORR. SG01	20	41	42	SPACE

120/208V, 3PH, 4W
 225 AMP MAINS
 SQUARE D: NQOD
 RM. SG09
PANELBOARD L34
 NEUTRAL

LOAD DESCRIPTION	BKR SIZE	CKT NO	CKT SIZE	LOAD DESCRIPTION
SPACE	15	1	2	SPACE
SPACE	15	3	4	SPACE
SPACE	15	5	6	SPACE
SPACE	15	7	8	SPACE
SPACE	15	9	10	SPACE
SPACE	15	11	12	SPACE
SPACE	15	13	14	SPACE
SPACE	15	15	16	SPACE
SPACE	15	17	18	SPACE
SPACE	15	19	20	SPACE
SPACE	15	21	22	SPACE
SPACE	15	23	24	SPACE
SPACE	15	25	26	SPACE
SPACE	15	27	28	SPACE
SPACE	15	29	30	SPACE

120/208V, 3PH, 4W
 225 AMP MAINS
 SQUARE D: NQOD
 RM. SB20
PANELBOARD EL1
 NEUTRAL

DRAWING NOTES

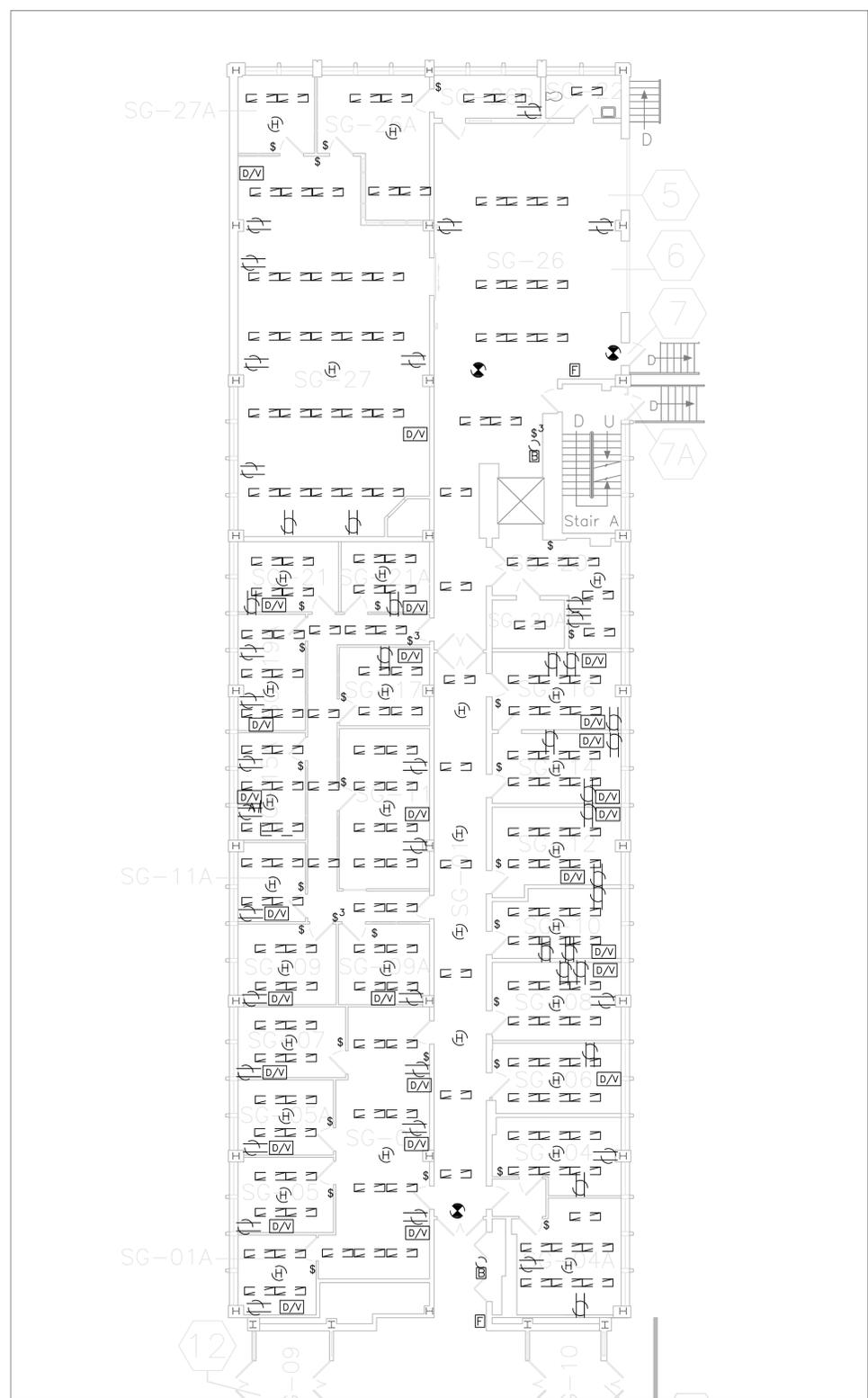
- EXISTING EQUIPMENT TO REMAIN.
- SOUTH WING BASEMENT ELECTRICAL ROOM 1 DEMOLITION WORK
 - DISCONNECT EQUIPMENT AND CONDUIT, FREE SPACE FOR NEW PANEL P1.
 - REFEED EXISTING LOADS FROM P1, REFER TO E04
- REFEED T-230 FROM EXISTING DISCONNECT DS-1.
- RM. SB20 DEMOLITION WORK
 - REMOVE EXISTING EMERG. PANEL EL1 AND EL1A, RETURN TO NRC.
 - RECONNECT EXISTING LOAD FROM NEW PANEL EL1, REFER TO E04
- SOUTH WING GROUND FLOOR DEMOLITION.
 - REMOVE ALL EXISTING LIGHTING EQUIPMENT.
 - REMOVE ALL EXISTING POWER PLUG.
 - REMOVE ALL F/A HEAT DETECTORS AND PULL STATIONS.
 - REMOVE ALL DATA OUTLETS.
 - REMOVE ASSOCIATED WIRES AND CONDUIT FOR ABOVE SERVICES BACK TO PANELS AT IT/ELEC CLOSET. FLUSH CONDUIT OF FLOOR MONUMENT TO FLOOR.
 - EXISTING EMERGENCY CTT. FOR EXIT LIGHTS AND EMERGENCY LIGHTING TO REMAIN FOR NEW INSTALLATION.
 - CONTRACTOR TO CARRY EXTRA 20% COST FOR ABOVE EQUIPMENT NOT SHOWN ON THE PLAN, HOWEVER FOUND ON SITE.



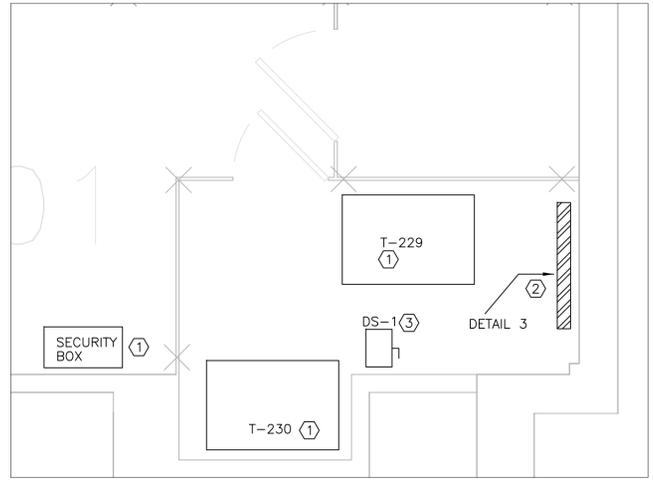
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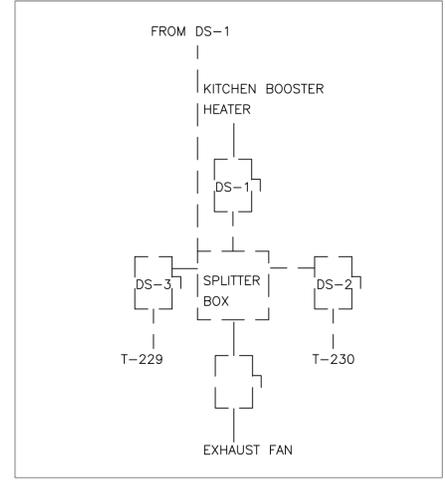
LEGEND		
SYMBOL	DESCRIPTION	
\$	1-WAY TOGGLE SWITCH	(5)
\$ ³	3-WAY LIGHTING SWITCH	(5)
H	F/A HEAT DETECTOR	(5)
F	F/A PULL STATION	(5)
B	F/A BELL	(1)
L	LIGHTING FIXTURE	(5)
D	DUPLEX PLUG, WALL OR FLOOR	(5)
D/V	DATA/VOICE, WALL OR FLOOR	(5)



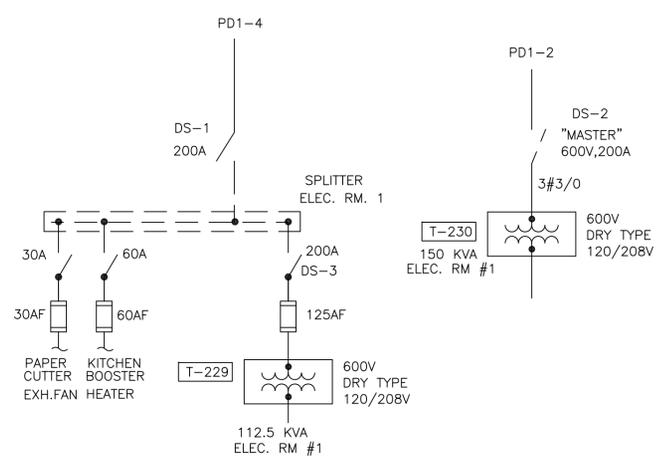
1 GROUND FLOOR SOUTH WING LIGHT, F/A, DATA, POWER DEMOLITION
 E05 SCALE: 1:125



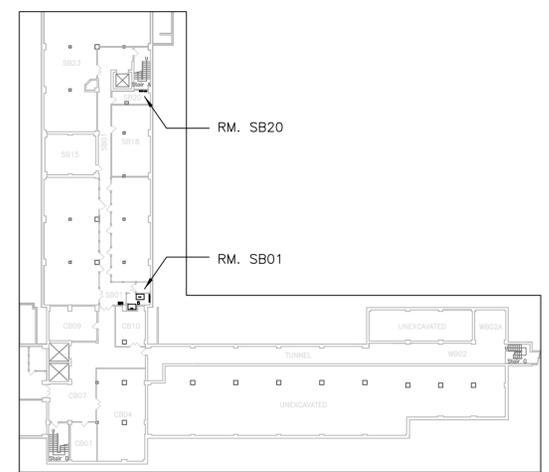
2 ELECTRICAL RM. 1 FLOOR PLAN
 E05 SCALE: 1:30



3 ELECTRICAL RM. 1 DEMOLITION
 E05 SCALE:



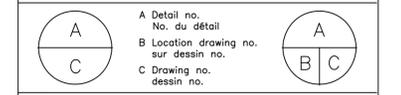
4 ELEC. RM.1 EXISTING SLD
 E05 SCALE:



5 S.W. BASEMENT KEY PLAN
 E05 SCALE: 1:500

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project projet
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GROUND FLOOR SOUTH WING
RENOVATION
MONTREAL ROAD CAMPUS
 drawing dessin
GROUND FLOOR AND BASEMENT
DEMOLITION

designed	conçu	date	date
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drawn	dessiné	scale	échelle
KXL		AS NOTED	
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DIF			
dwg.no.	dessin no.		
5083-E05			

