FREEMAN FIT-UP

ADDRESS: 2295 ST.LAURENT BLVD | OTTAWA, ON

PROJECT NO: 1927

DATE: 2020-01-29

RE-ISSUED FOR CONSTRUCTION

ARCHITECTURAL DRAWINGS

000 COVER

A001 FIRE SEPARATIONS, CONSTRUCTION ASSEMBLIES & NOTATION LEGEND
A003 DOOR SCHEDULE, DOOR & FRAME TYPES, MATERIALS & PRODUCT SCHEDULE

LEVEL 01 & 02 - DEMOLTION PARTITON PLANS
LEVEL 01 & 02 - DEMOLTION CEILING PLANS

LEVEL 01 & 02 - PARTITION PLANS

LEVEL 01 & 02 - FINISHES PLANS

LEVEL 01 & 02 - REFLECTED CEILING PLANS

401 STAIR C - ENLARGED PLANS, SECTIONS, AND DETAILS 402 WC - ENLARGED PLANS AND ELEVATIONS

A701 INTERIOR DETAILS

A801 MILLWORK PLANS, ELEVATIONS, AND DETAILS

A802 MILLWORK CONTINUED

MECHANICAL ENGINEER

Quadrant Engineering Ltd

203-2283 St. Laurent Blvd. Ottawa, Ontario K1G 5A2

DRAWING LIST

REFER TO MECHANICAL TITLE SHEET

ELECTRICAL ENGINEER

Quadrant Engineering Ltd

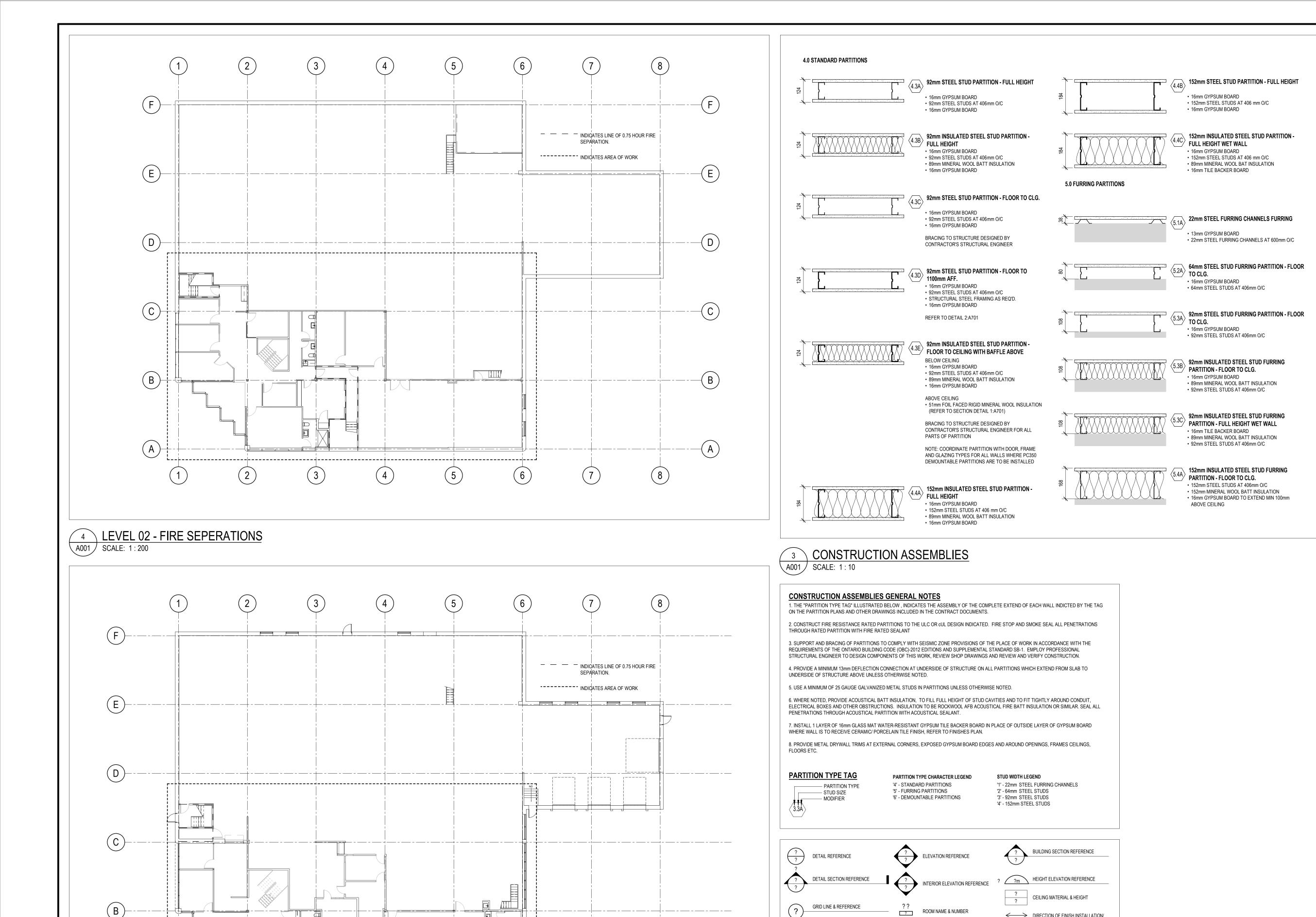
203-2283 St. Laurent Blvd. Ottawa, Ontario K1G 5A2

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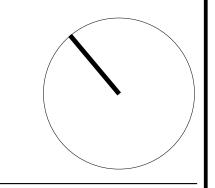
verifying all levels and dimensions and shall report all discrepancies to the Architect and obtain clarification prior to commencing work. B. Upon notice in writing, the Architect will provide written/graphic clarification or

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5. Positions of exposed or finished Mechanical or Electrical devices, fittings and fixture are indicated on the Architectural Drawings. Locations shown on the Architectural Drawings shall govern over Mechanical and Electrical Drawings. Mechanical and Electrical items not clearly located will be located as directed by the Architect. . These documents are not to be used for construction unless specifically noted for such purpose.

5 RE-ISSUED FOR CONSTRUCTION 2020-01-29 2020-01-27 ISSUED FOR CONSTRUCTION 2 ISSUED FOR TENDER 2019-11-29 1 ISSUED FOR BUILDING PERMIT 2019-11-15

ISSUE RECORD



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FREEMAN FIT-UP

2295 St.Laurent Blvd Ottawa ON

← → DIRECTION OF FINISH INSTALLATION/ GRAIN DIRECTION

FLOOR TRANSITION STRIP

CONSTRUCTION ASSEMBLY

2 NOTATION LEGEND

REFERENCE

? DOOR REFERENCE

\ A001 / SCALE: NTS

?\ REVISION REFERENCE

? INTERIOR FINISH REFERENCE

1927 NOTED

AP

FIRE SEPARATIONS,

REVIEWED

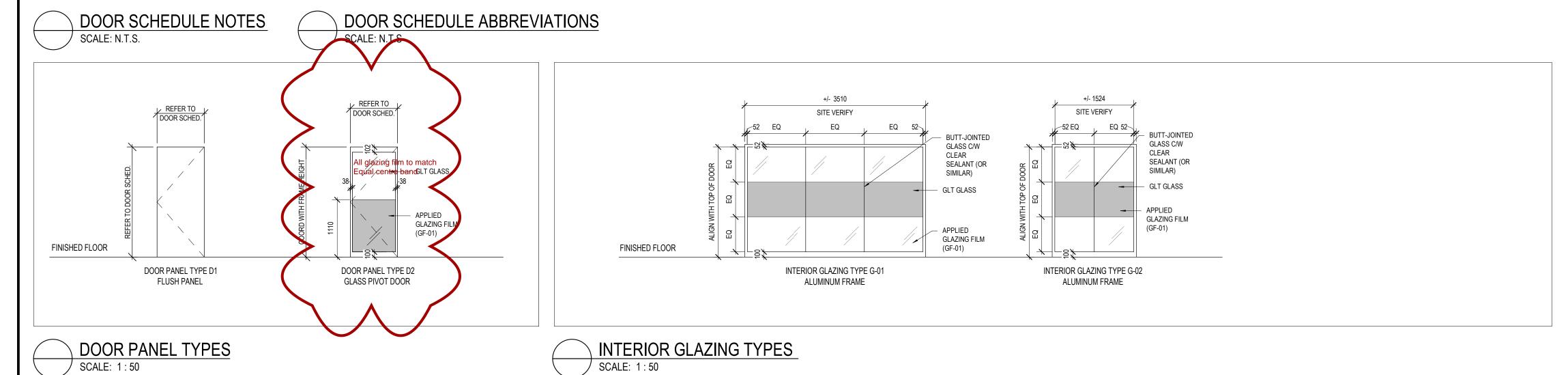
RMK

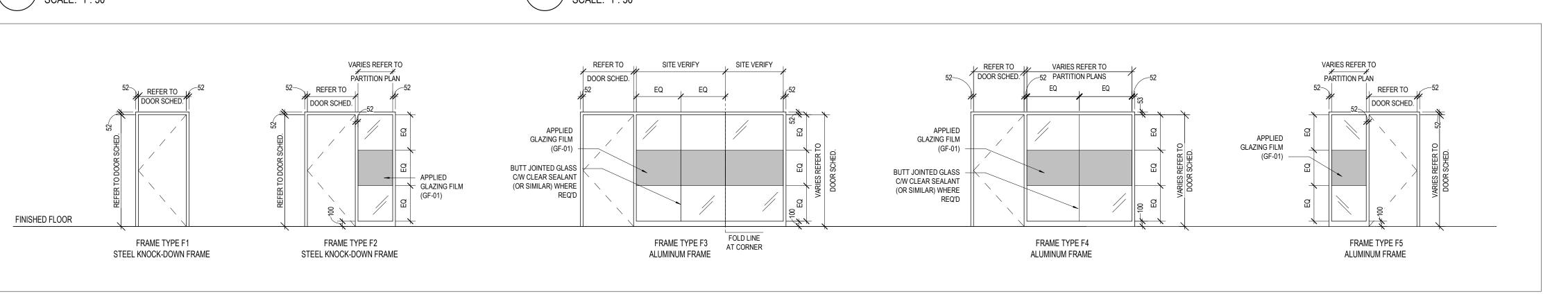
CONSTRUCTION ASSEMBLIES & NOTATION LEGEND

1 LEVEL 01 - FIRE SEPERATIONS A001 | SCALE: 1:200

CHEDUL	_ _																
		DOC	OR PAI	NEL							FRAME				REMARKS		
DOOR NO	D. ROOM NAME	WID	TH 1	WIDTH 2	HEIGHT	THICK.	MAT.	FIN.	DOOR PANEL TYPE	DOOR GLASS	FRAME TYPE	MAT.	FIN.	FRAME GLASS	HARD WARE	FIRE RATING	NOTES
D101A	LOBBY 101	762				44	SCW	PT	D1		F1	SKF	PT		LP		DOUBLE DOOR
D104A	OFFICE 104	965				44	AL	ANO	D2	GLT	F4	AL	ANO	GLT	LS, DS		DOOR, FRAME, AND HARDWARE PART OF DEMOUNTABLE WALL SYSTEM, COORDINATE WITH SUPPLIER
D105A	OFFICE 105	965			2134	44	AL	ANO	D2	GLT	F5	AL	ANO	GLT	LS, DS		DOOR, FRAME, AND HARDWARE PART OF DEMOUNTABLE WALL SYSTEM, COORDINATE WITH SUPPLIER
D116A	LUNCH RM 116	965			2134	44	SCW	PT	D1		F1	SKF	PT		PS, DC		
D117A	WOMAN'S WC 117	965				44	SCW	PT	D1		F1	SKF	PT		PS, ADO		Not on drawings
D118A	MEN'S WC 118	965				44	SCW	PT	D1		F1	SKF	PT		PS, ADO		Not on drawings
D119A	WAREHOUSE 119	965			2134	44	SCW	PT	D1		F1	SKF	PT		PS, DC		
ED108A	PRINT ROOM 108														PS		
ED109A	WC 109														PLS		
																45 MIN	EXISTING DOOR CLOSER TO REMAIN
	OFFICE 111																
ED113A	CORRIDOR 113																
ED114A																	
ED115B																	
ED119B	WAREHOUSE 119																
RD119A	WAREHOUSE 119														LS, DS		INSTALL EXISTING DOOR & FRAME RETAINED FROM DEMOLITION
D201A	OFFICE 201	065			2124	144	l A I	ANO	D2		Ε/	ΔI	ANO	CLT	Le De	1	DOOR, FRAME, AND HARDWARE PART OF DEMOUNTABLE WALL SYSTEM, COORDINATE WITH SUPPLIER
										-				_			DOON, I MAINL, AND HANDWAKE PART OF DEMOUNTABLE WALL STSTEM, COOKDINATE WITH SUPPLIER
														GLI			
											1			GLT			
										-			_				
						1 1	_			-				_			
						1											DOOR AND FRAME PART OF DEMOUNTABLE WALL SYSTEM REFER TO FINISHES SCHEDULE FOR SPECIFICATION
D207A D208A	WC 208	813			2033	44	SCW	PT	D1	-	F1	SKF	PT	GLI	PLS, DC		DOOR HEIGHT TO MATCH ADJASENT DOOR ED209A, SITE VERIFY
D200A D210A	MTG RM 210	915			2134	44	SCW	PT	D1	-	F1	SKF	PT		LS LS		DOOK TILIOTT TO WATOT ADDAOLIST DOOK LD203A, SHE VERIFT
	PRINT ROOM 212	1067			2438	44	HM	PT	D3		F1	SKF	PT		LS		DOUBLE DOOR
D212A					2134	44	HM	PT	D1	-	F1	SKF	PT		LS, DC		DOUBLE DOUR
D212A	CECLIDE CTODACE 313	INGE				44	HM	PT	D1	-	F1	SKF	PT		LS, DC		
D213A	SECURE STORAGE 213	965			212/			151	11/1	1	11.1		IFI	1	ILO, DU		
D213A D214A	SERVER/ MECH RM 214	965 965			2134	44	I IIVI	1			1	Orti					
D213A D214A ED119C	SERVER/ MECH RM 214 WAREHOUSE 119				2134	44	TilVi					Orti			PS, DC		No describerar
D213A D214A ED119C ED209A	SERVER/ MECH RM 214 WAREHOUSE 119 WC 209				2134	44	T IIVI					Orti			PS, DC PLS		No door closer
D213A D214A ED119C	SERVER/ MECH RM 214 WAREHOUSE 119				2134	44	I IIVI					Orti			PS, DC	45 MIN	No door closer
	D101A D104A D105A D116A D115A D118A D119A ED108A ED109A ED110A ED111A ED113A ED115B ED119B RD119A D201A D202A D202A D202AA D203A D204A D205A D207A	D104A OFFICE 104 D105A OFFICE 105 D116A LUNCH RM 116 D117A WOMAN'S WC 117 D118A MEN'S WC 118 D119A WAREHOUSE 119 ED108A PRINT ROOM 108 ED109A WC 109 ED110A STAIR A 110 ED111A OFFICE 111 ED113A CORRIDOR 113 ED115A OFFICE 115 ED115B OFFICE 115 ED119B WAREHOUSE 119 RD119A WAREHOUSE 119 D201A OFFICE 201 D202A OFFICE 202 D203A OFFICE 203 D204A OFFICE 204 D205A OFFICE 205 D207A OFFICE 207	DOOR NO. ROOM NAME D101A LOBBY 101 762 D104A OFFICE 104 965 D105A OFFICE 105 965 D116A LUNCH RM 116 965 D117A WOMAN'S WC 117 965 D118A MEN'S WC 118 965 D119A WAREHOUSE 119 965 ED108A PRINT ROOM 108 ED109A ED109A WC 109 ED110A STAIR A 110 ED111A OFFICE 111 ED113A CORRIDOR 113 ED115A OFFICE 114 ED115A OFFICE 115 ED119B WAREHOUSE 119 RD119A WAREHOUSE 119 RD119A WAREHOUSE 119 P055 P020A P0FICE 202 965 D202A OFFICE 202 965 P020A P0FICE 203 965 D203A OFFICE 204 965 P0205A P0FICE 205 965 D207A OFFICE 207 965	DOOR NO. ROOM NAME D101A LOBBY 101 762 D104A OFFICE 104 965 D105A OFFICE 105 965 D116A LUNCH RM 116 965 D117A WOMAN'S WC 117 965 D118A MEN'S WC 118 965 D119A WAREHOUSE 119 965 ED108A PRINT ROOM 108 ED109A ED109A WC 109 ED110A ED110A STAIR A 110 ED111A ED111A OFFICE 111 ED113A ED114A OFFICE 114 ED115A ED115B OFFICE 115 ED119B WAREHOUSE 119 RD119A WAREHOUSE 119 RD119A WAREHOUSE 119 P0202A D202A OFFICE 202 965 D202A OFFICE 203 965 D203A OFFICE 204 965 D205A OFFICE 205 965 D207A OFFICE 207 965	D101A	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK.	DOOR NO. ROOM NAME	DOOR NO. ROOM NAME	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS FRAME TYPE	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE DOOR PANEL TYPE MAT.	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS FRAME TYPE MAT. FIN.	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS FRAME TYPE MAT. FIN. FRAME GLASS	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS FRAME TYPE MAT. FIN. FRAME GLASS HARD WARE GLASS HARD WARE GLASS FRAME TYPE MAT. FIN. FRAME GLASS HARD WARE GLASS FRAME TYPE MAT. FIN. FRAME GLASS HARD WARE GLASS FRAME TYPE MAT. FIN. FRAME GLASS HARD WARE GLASS FRAME TYPE MAT. FIN. FRAME GLASS HARD WARE GL	DOOR NO. ROOM NAME WIDTH 1 WIDTH 2 HEIGHT THICK. MAT. FIN. DOOR PANEL TYPE GLASS FRAME THE GLASS HARD WARE FIRE RATING

DOOR SCHEDULE GENERAL NOTES DOOR SCHEDULE ABBREVIATIONS SITE VERIFY ALL EXISTING DOOR AND FRAME TYPES & ADO - AUTOMATIC DOOR OPERATOR AL - ALUMINUM ANO - CLEAR ANODIZED 2. REPLACE / ADD HARDWARE AS NOTED ON EXISTING DOORS. DB - DEADBOLT DOOR CLOSER PATCH & REPAIR DOOR AND FRAME AS REQ'D. DS-DROP SEAL DWS - DEMOUNTABLE WALL SYSTEM GL -GLT -GLASS TEMPERED GLASS (6mm) HM- HOLLOW METAL HO - HOLD OPEN DEVICE KDF- STEEL KNOCK DOWN FRAME LADDER PULL LS - LOCKSET PLS- PRIVACY LOCK SET PS - PASSAGE SET PSF - PRESSED STEEL FRAME SCW - SOLID CORE WOOD SKF- STEEL KNOCK-DOWN FRAME *REFER TO MATERIALS AND FINISHES SCHED. FOR PAINT





DOOR FRAME ELEVATIONS SCALE: 1:50

GENERAL ARCHITECTURAL NOTES:

such purpose.

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5 RE-ISSUED FOR CONSTRUCTION

4 ISSUED FOR CONSTRUCTION

1 ISSUED FOR BUILDING PERMIT

2 ISSUED FOR TENDER

ISSUE RECORD

2020-01-29 2020-01-27

2019-11-29

2019-11-15

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FREEMAN FIT-UP

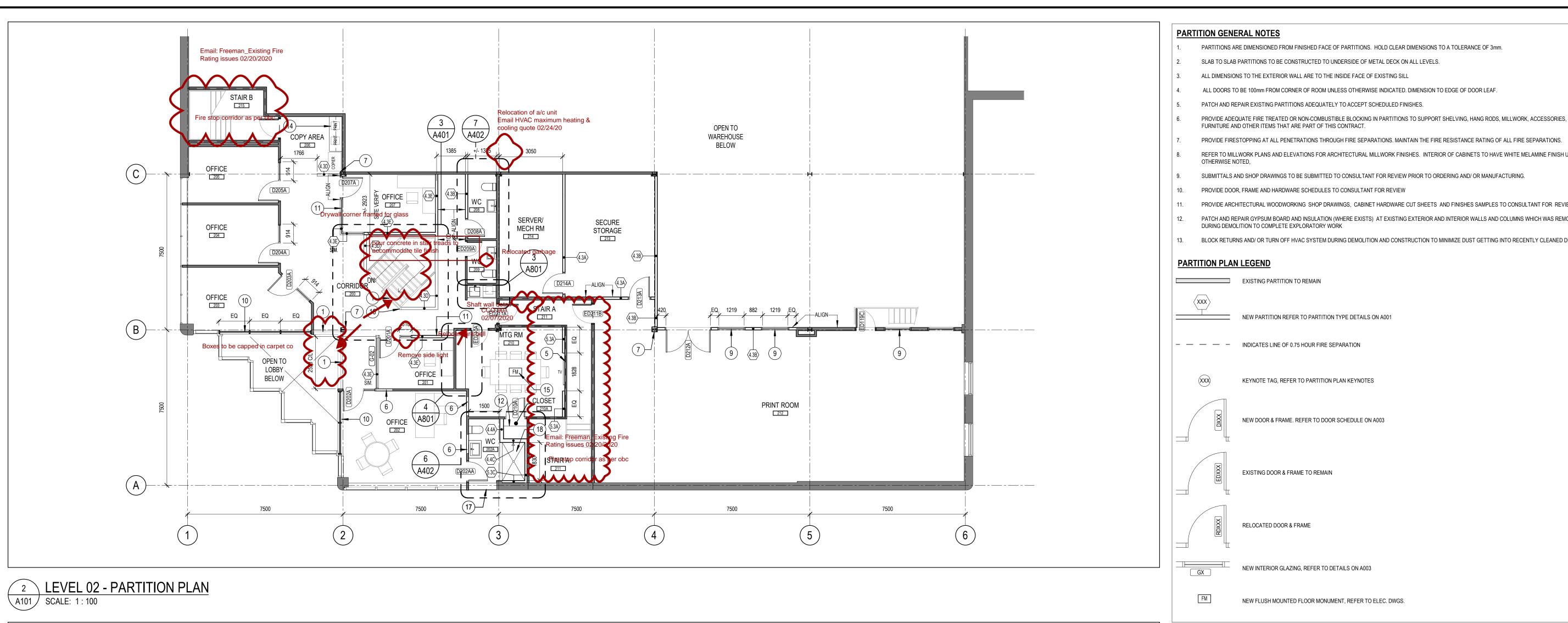
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1927 NOTED

DRAWN REVIEWED WB

RMK

DOOR SCHEDULE, DOOR & FRAME TYPES, MATERIALS & PRODUCT SCHEDULE



WAREHOUSE

119

107

OFFICE nail: Questioคร่ใช้2/20/202

113

VESTIBULE 112

STAIR A

\A801/

Width of space change

7500

\A401

wall on closet RFI #9

Email: Fire alarm bell 0

Fire alarm bells and heat d

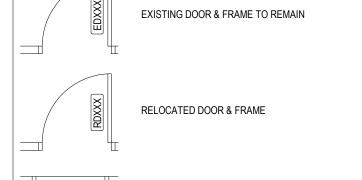
VESTIBULE

- PARTITIONS ARE DIMENSIONED FROM FINISHED FACE OF PARTITIONS. HOLD CLEAR DIMENSIONS TO A TOLERANCE OF 3mm.
- SLAB TO SLAB PARTITIONS TO BE CONSTRUCTED TO UNDERSIDE OF METAL DECK ON ALL LEVELS.
- ALL DIMENSIONS TO THE EXTERIOR WALL ARE TO THE INSIDE FACE OF EXISTING SILL
- ALL DOORS TO BE 100mm FROM CORNER OF ROOM UNLESS OTHERWISE INDICATED. DIMENSION TO EDGE OF DOOR LEAF.
- PATCH AND REPAIR EXISTING PARTITIONS ADEQUATELY TO ACCEPT SCHEDULED FINISHES.
- FURNITURE AND OTHER ITEMS THAT ARE PART OF THIS CONTRACT.
- REFER TO MILLWORK PLANS AND ELEVATIONS FOR ARCHITECTURAL MILLWORK FINISHES. INTERIOR OF CABINETS TO HAVE WHITE MELAMINE FINISH UNLESS
- SUBMITTALS AND SHOP DRAWINGS TO BE SUBMITTED TO CONSULTANT FOR REVIEW PRIOR TO ORDERING AND/ OR MANUFACTURING.
- PROVIDE DOOR, FRAME AND HARDWARE SCHEDULES TO CONSULTANT FOR REVIEW
- PROVIDE ARCHITECTURAL WOODWORKING SHOP DRAWINGS, CABINET HARDWARE CUT SHEETS AND FINISHES SAMPLES TO CONSULTANT FOR REVIEW
- PATCH AND REPAIR GYPSUM BOARD AND INSULATION (WHERE EXISTS) AT EXISTING EXTERIOR AND INTERIOR WALLS AND COLUMNS WHICH WAS REMOVED DURING DEMOLITION TO COMPLETE EXPLORATORY WORK
- 13. BLOCK RETURNS AND/ OR TURN OFF HVAC SYSTEM DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE DUST GETTING INTO RECENTLY CLEANED DUCTS.

PARTITION PLAN LEGEND

NEW PARTITION REFER TO PARTITION TYPE DETAILS ON A001 - - - INDICATES LINE OF 0.75 HOUR FIRE SEPARATION KEYNOTE TAG, REFER TO PARTITION PLAN KEYNOTES





NEW INTERIOR GLAZING, REFER TO DETAILS ON A003

NEW FLUSH MOUNTED FLOOR MONUMENT, REFER TO ELEC. DWGS.

REPLACE EXISTING GLASS PANELS IN STAIR AND BALCONY GUARDS WITH NEW CLEAR HEAT STRENGTHENED LAMINATED GLASS CONFORMING TO OBC-2012 AND SUPPLEMENTAL STANDARD SB-13.

(3) EXISTING ROLL UP DOOR TO REMAIN

(4) LOCATE WASHROOM EXHAUST VENT THROUGH EXTERIOR WALL, REFER TO 3:A701 AND MECHANICAL DRAWINGS

(2) REMOVE EXISTING MECHANICAL GRILL AND RE-ROUTE DUCTWORK, REFER TO MECHANICAL DRAWINGS

(5) PROVIDE FIRE RETARDANT/ NON COMBUSTABLE BLOCKING WITHIN PARTITION FOR MOUNTING OF CLIENT SUPPLIED MONITOR. COORD HEIGHT WITH CLIENT

(6) PROVIDE INSULATED STEEL STUD PARTITION WALL WITH 16mm GYPSUM TO MATCH EXISTING WALL THICKNESS

LAMINATE NEW GYPSUM ON COLUMN FLANGE AND INFILL WITH 64mm STEEL STUD FURRING PARTITION. PROVIDE FURRING TO ALIGN COLUMN COVERINGS WITH ADJACENT FINISHES AS NOTED.

(8) EXISTING SINK AND COUNTER TO REMAIN

(9) MOUNT RELOCATED WINDOWS IN NEW WALL TO MATCH HEIGHT OF EXISTING WINDOWS

(10) EXISTING WINDOW TO REMAIN

STEEL STUD FRAMING SUSPENDED FROM U/S OF STRUCTURE TO SUPPORT AIR TRANSFER OPENINGS DESIGNED BY CONTRACTOR'S STRUCTURAL ENGINEER, REFER (11) TO MECHANICAL DRAWINGS FOR LOCATION

(12) 4 NEW ADJUSTABLE CLOSET SHELVES WITH WHITE MELAMINE FINISH

(13) NEW CLOSET SHELF, WHITE MELAMINE FINISH, AND HANGER ROD

(14) MILLWORK BY OWNER

Wall assembly changes to 1.5

3851 No tile on wall - partition on wall

ridged, taped, rock wool insulation

(15) COORD FINAL LOCATION OF FLOOR MONUMENT WITH CLIENT SUPPLIED FURNITURE

(16) MODIFY EXISTING WOOD CURB TO ALIGN WITH FACE OF ADJACENT GYP. BD. PARTITION

LOCATE WASHROOM EXHAUST VENTS THROUGH EXTERIOR WALL TO SUIT EXISTING CONDITIONS, SIMILAR TO DETAIL 3:A701. REUSE EXISTING VENT OPENINGS WHERE POSSIBLE. COORD WITH MECHANICAL DRAWINGS

LOCATE WASHROOM EXHAUST VENTS THROUGH EXTERIOR WALL TO SUIT EXISTING CONDITIONS, SIMILAR TO DETAIL 3:A701. REUSE EXISTING VENT OPENINGS WHERE POSSIBLE. COORD WITH MECHANICAL DRAWINGS





2020-01-27 4 ISSUED FOR CONSTRUCTION 2 ISSUED FOR TENDER 2019-11-29 1 ISSUED FOR BUILDING PERMIT 2019-11-15

ISSUE RECORD

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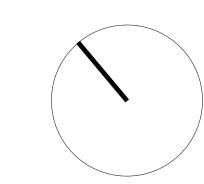
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FREEMAN FIT-UP

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Ottawa ON

1:100 AP 1927

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DRAWN

LEVEL 01 & 02 - PARTITION **PLANS**

LEVEL 01 - PARTITION PLAN A101 | SCALE: 1:100

pour new concrete slab, on existing sub floor

accommodate new finishes

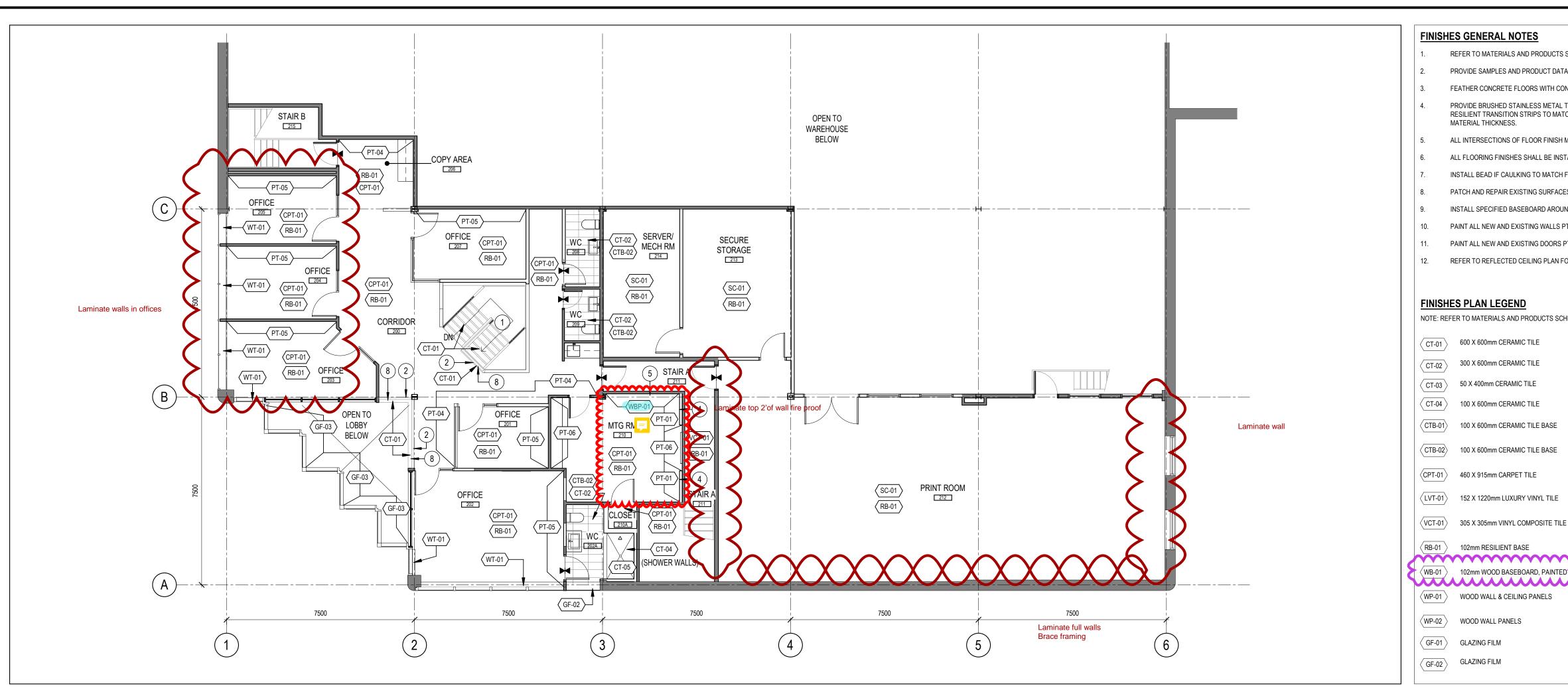
STAIR B

122

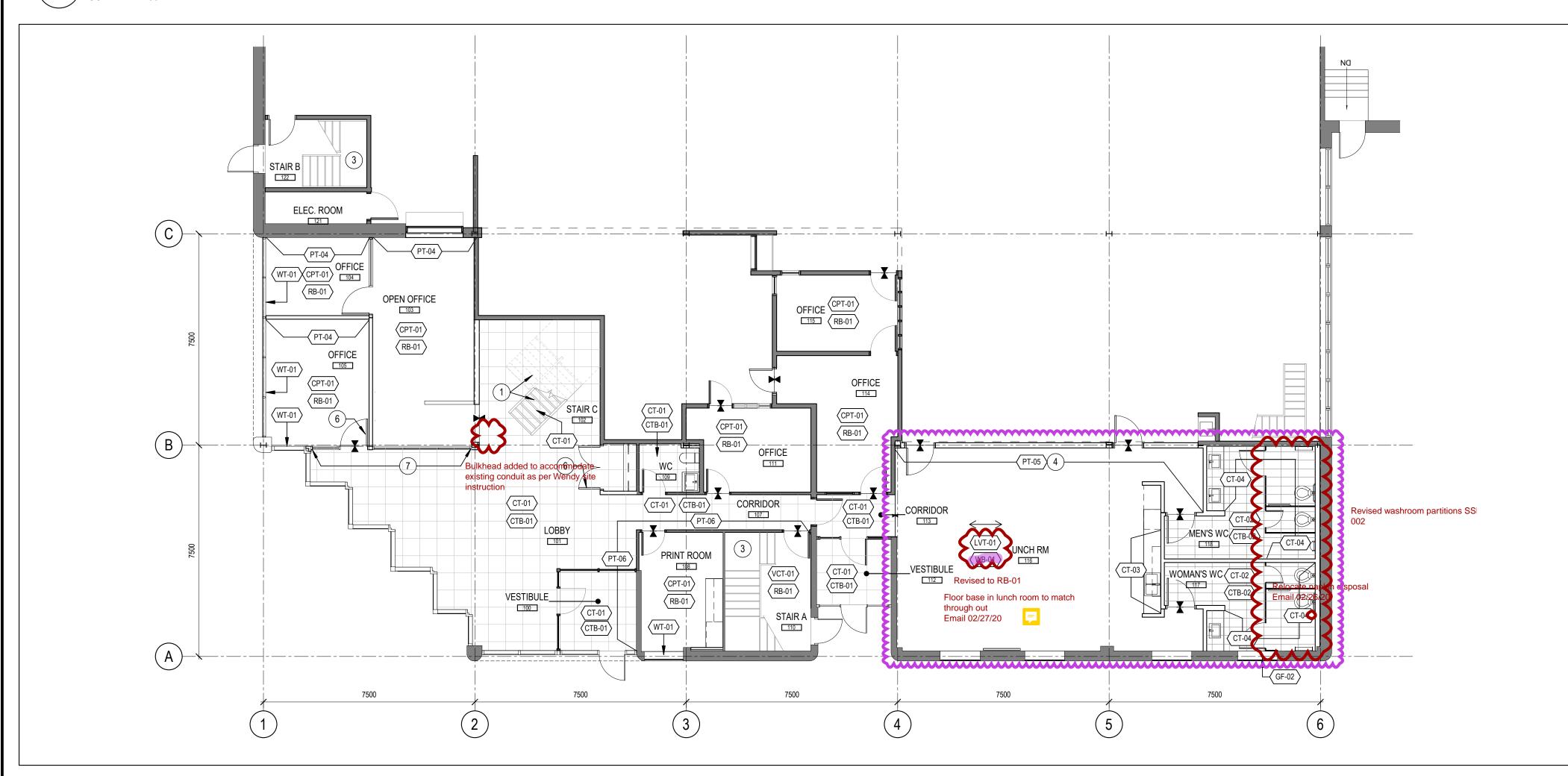
104

OFFICE

OPEN OFFICE



2 LEVEL 02 - FINISHES PLAN A111 | SCALE: 1:100



FINISHES GENERAL NOTES

REFER TO MATERIALS AND PRODUCTS SCHEDULE FOR ALL FINISH SPECIFICATIONS

PROVIDE SAMPLES AND PRODUCT DATA OF ALL FINISHES TO CONSULTANT FOR REVIEW PRIOR TO ORDERING

FEATHER CONCRETE FLOORS WITH CONCRETE TOPPING AS REQUIRED TO BRING ADJACENT MATERIALS FLUSH.

PROVIDE BRUSHED STAINLESS METAL TRANSITION STRIPS AT TRANSITIONS OF CERAMIC FLOOR FINISHES TO SUIT FLOORING MATERIAL THICKNESS. PROVIDE RESILIENT TRANSITION STRIPS TO MATCH RB-01 COLOUR AT ALL OTHER FLOORING TYPES (CARPET TILE, RESILIENT, CONCRETE ETC) TO SUIT FLOORING

ALL INTERSECTIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATED DIRECTLY UNDER THE CENTER OF DOOR UNLESS OTHERWISE NOTED

ALL FLOORING FINISHES SHALL BE INSTALLED UNDER MILLWORK CABINETS PRIOR TO INSTALLATION OF MILLWORK.

INSTALL BEAD IF CAULKING TO MATCH FLOOR FINISH ALONG BOTTOM OF DOOR AND GLAZING FRAMES AT RESILIENT FLOORING

PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO MAKE READY FOR NEW FINISHES

INSTALL SPECIFIED BASEBOARD AROUND ALL DRYWALL PARTITIONS.

PAINT ALL NEW AND EXISTING WALLS PT-01 UNLESS OTHERWISE NOTED. PAINT ALL NEW AND EXISTING DOORS PT-04 UNLESS OTHERWISE NOTED.

REFER TO REFLECTED CEILING PLAN FOR CEILING FINISHES

FINISHES PLAN LEGEND

NOTE: REFER TO MATERIALS AND PRODUCTS SCHEDULE FOR ALL FINISH SPECIFICATIONS

CT-01 600 X 600mm CERAMIC TILE GF-03 GLAZING FILM \langle CT-02 \rangle 300 X 600mm CERAMIC TILE CORNER GUARD CT-03 50 X 400mm CERAMIC TILE WT-01 WINDOW TREATMENTS - ROLLAR SHADES ⟨ CT-04 ⟩ 100 X 600mm CERAMIC TILE ⟨ PT-01 ⟩ GENERAL PAINT FINISH ⟨CTB-01⟩ 100 X 600mm CERAMIC TILE BASE ⟨ PT-02 ⟩ CEILING PAINT FINISH ⟨CTB-02⟩ 100 X 600mm CERAMIC TILE BASE PT-03 ACCENT PAINT FINISH ⟨CPT-01⟩ 460 X 915mm CARPET TILE PT-04 ACCENT PAINT FINISH (LVT-01) 152 X 1220mm LUXURY VINYL TILE PT-05 ACCENT PAINT FINISH

102mm RESILIENT BASE $\overline{}$ ⟨WB-01⟩ 102mm WOOD BASEBOARD, PAINTED

\u\uuuuu WP-01 WOOD WALL & CEILING PANELS

⟨WP-02⟩ WOOD WALL PANELS GF-01 GLAZING FILM

⟨ PT-06 ⟩ ACCENT PAINT FINISH

PT-07 ACCENT PAINT FINISH

⟨WBP-01⟩ WHITEBOARD PAINT FINISH

⟨SC-01⟩ SEALED CONCRETE FINISH

KEYNOTE TAG, REFER TO KEYNOTE LEGEND

2) PAINT BALUSTERS AND BRACKETS WITH PT-3 PAINT

(3) EXISTING STAIR FINISH TO REMAIN

 $(\;4)\;$ CLIENT SUPPLIED WALL GRAPHIC TO BE INSTALLED AFTER OCCUPANCY. GYP BD PARTITION TO HAVE LEVEL 5 FINISH.

1) PAINT GYP BD ON UNDERSIDE OF STAIR, STAIR RISERS, STRINGERS, BALUSTERS AND BRACKETS WITH PT-3 PAINT

(5) GYP BD PARTITION TO HAVE LEVEL 5 FINISH AT WHITEBOARD PAINT

(6) DOOR AND FRAME FINISIH TO MATCH ADJACENT WALL COLOUR IN SEMI-GLOSS FINISH

(7) CLIENT SUPPLIED GRAPHIC TO BE INSTALLED ON WALL AND GLASS AFTER OCCUPANCY

INSTALL SPECIFIED CERAMIC TILE FINISH TO TOP & SIDE FACE OF EXISTING CURB. PROVIDE BRUSHED STAINLESS STEEL TILE TRIM AT EXPOSED EDGE OF TILE. 8) INSTALL TILE AROUND EXISTING BALUSTERS OR REMOVE & REINSTALL AS REQUIRED TO INSTALL TILE

KEYNOTE LEGEND SCALE: N.T.S.

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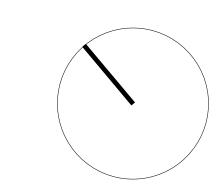
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4 ISSUED FOR CONSTRUCTION 2 ISSUED FOR TENDER 1 ISSUED FOR BUILDING PERMIT

5 RE-ISSUED FOR CONSTRUCTION

ISSUE RECORD



2020-01-29

2020-01-27

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FREEMAN FIT-UP

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WB 1927 1:100

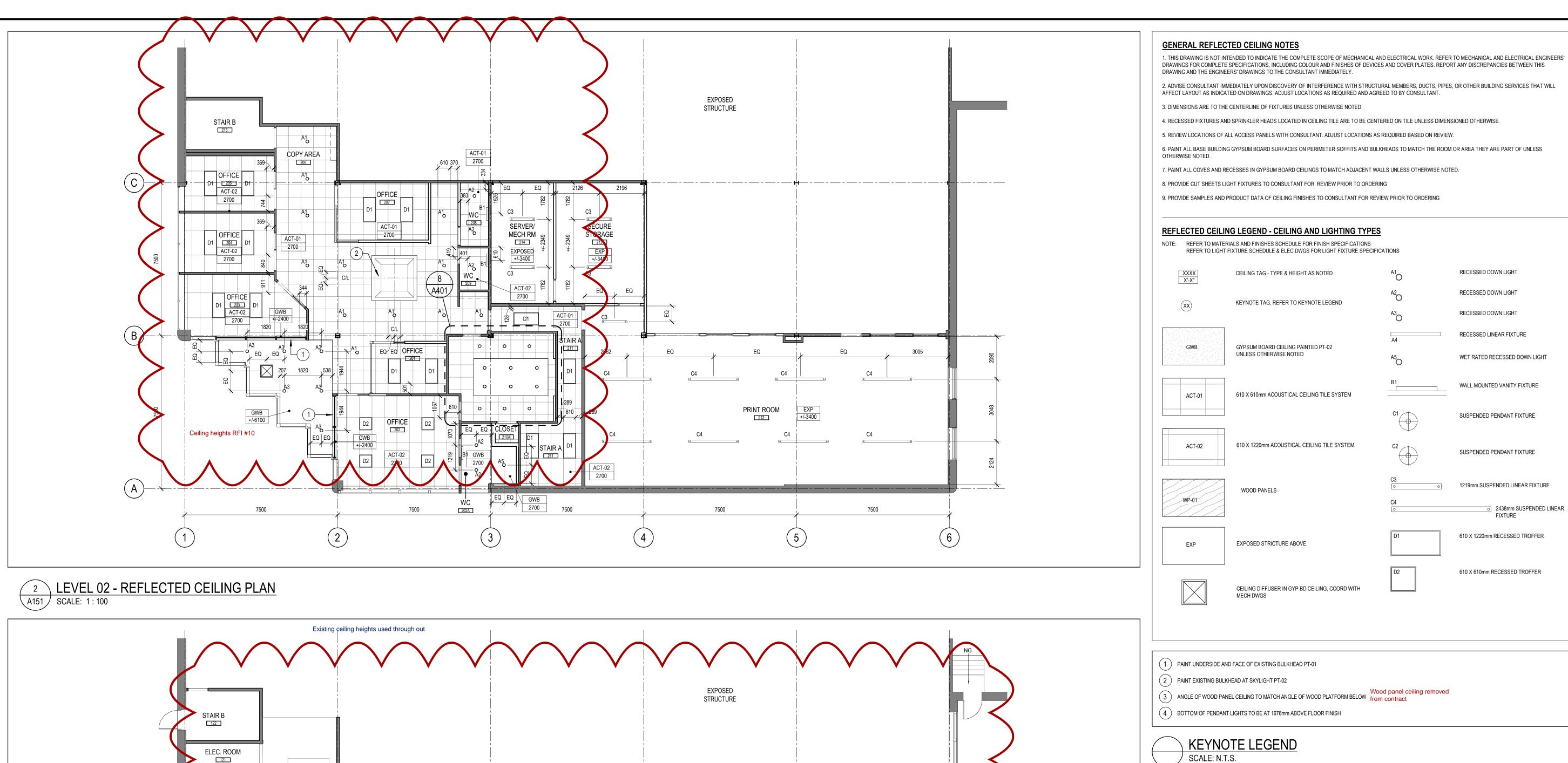
PLANS

LEVEL 01 & 02 - FINISHES

REVIEWED

RMK

LEVEL 01 - FINISHES PLAN \A111 \ SCALE: 1:100



5 RE-ISSUED FOR CONSTRUCTION 2020-01-29 4 ISSUED FOR CONSTRUCTION

2020-01-27 2019-11-29 2 ISSUED FOR TENDER 2019-11-15 1 ISSUED FOR BUILDING PERMIT

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2438mm SUSPENDED LINEAR

FIXTURE

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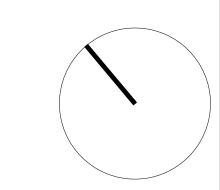
verifying all levels and dimensions and shall report all discrepancies to the Architect

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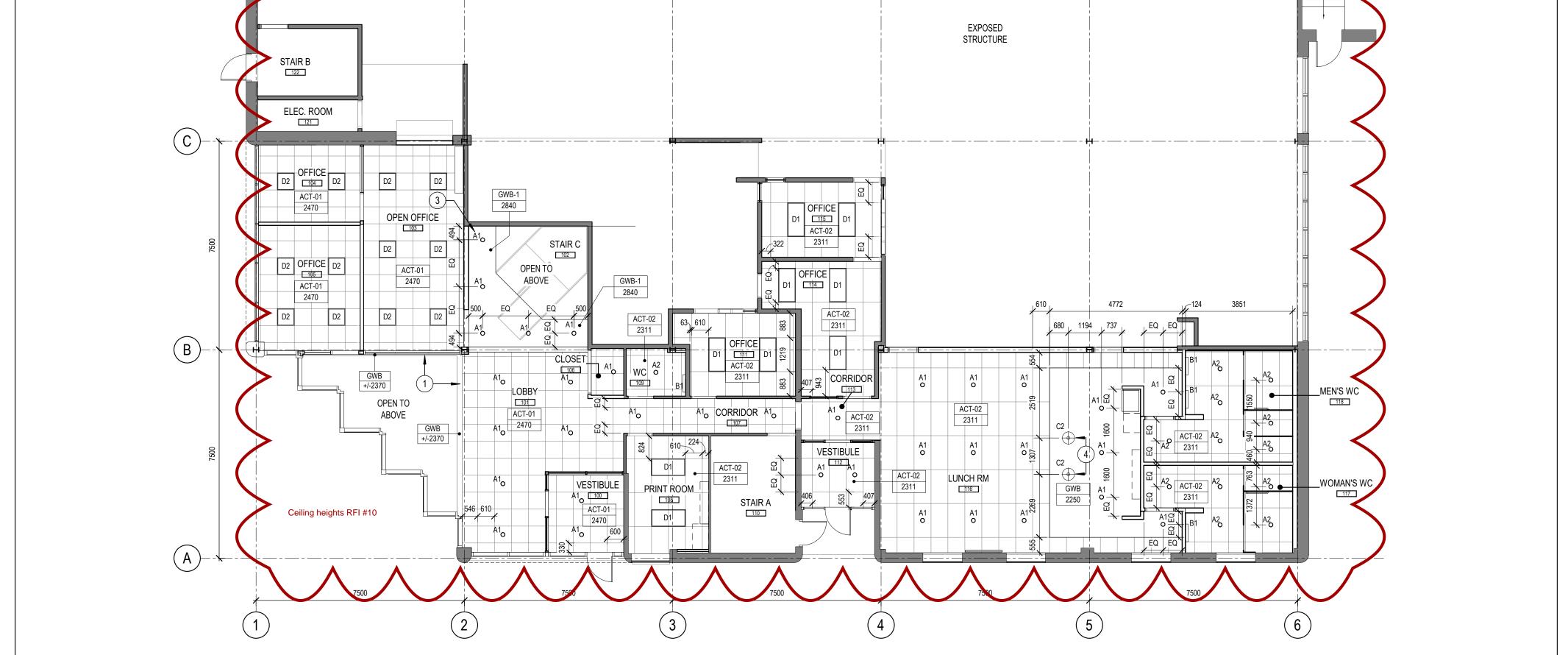
2295 St.Laurent Blvd Ottawa ON

1927 NOTED

WB/ **RMK**

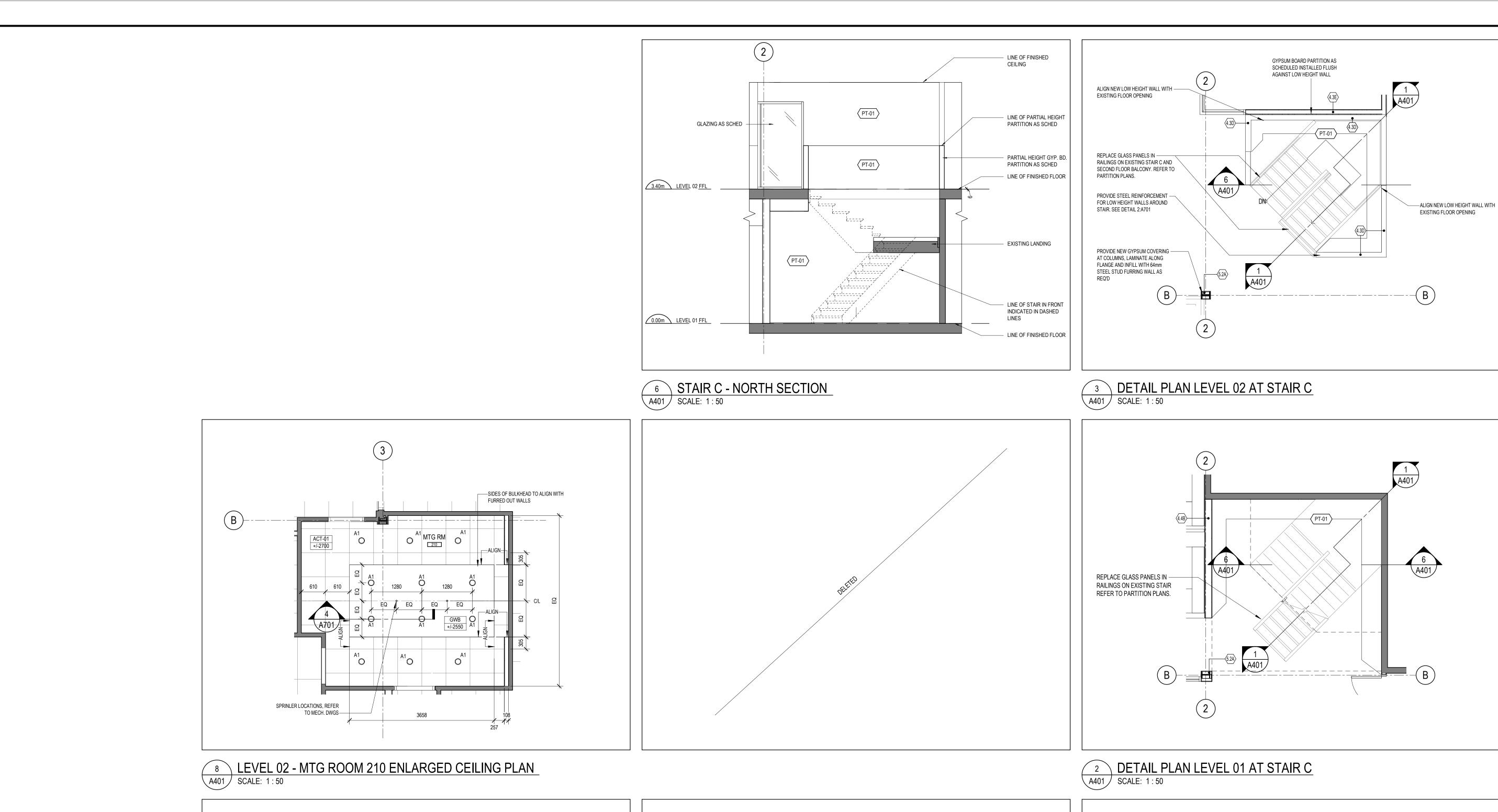
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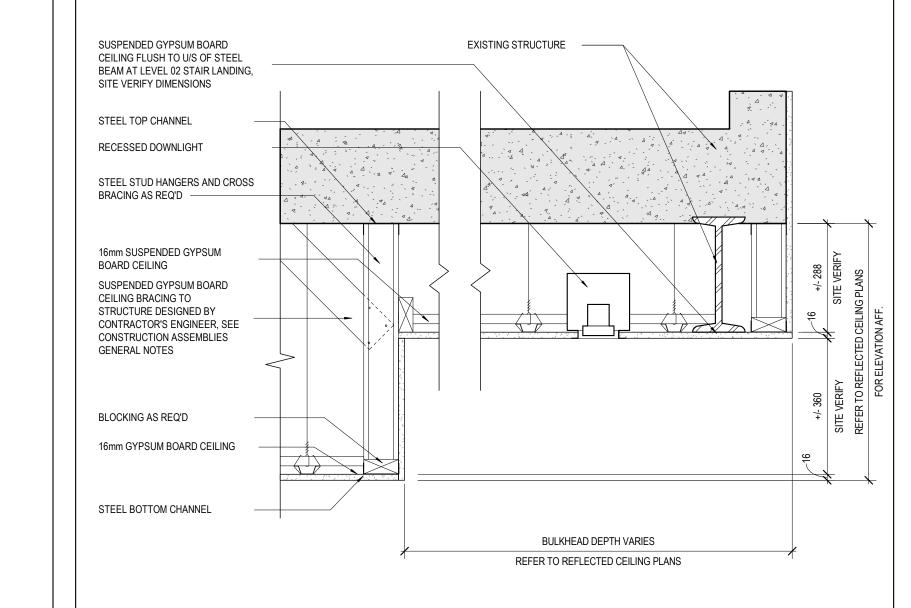
LEVEL 01 & 02 - REFLECTED CEILING PLANS



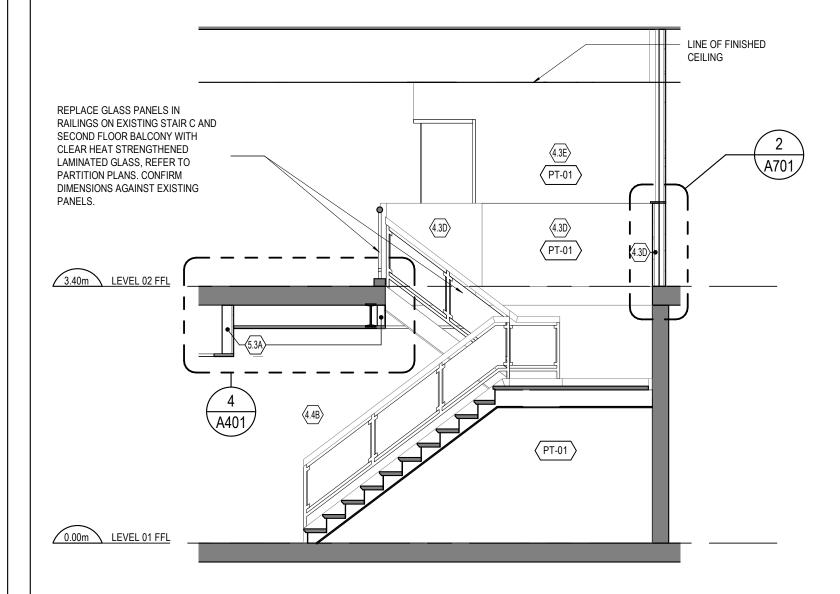
LEVEL 01 - REFLECTED CEILING PLAN

A151 SCALE: 1:100





4 SECTION DETAIL AT STAIR C STEPPED CEILING
A401 SCALE: 1:10



DETAIL SECTION AT EXISTING STAIR C

SCALE: 1:50

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5 RE-ISSUED FOR CONSTRUCTION

4 ISSUED FOR CONSTRUCTION

1 ISSUED FOR BUILDING PERMIT

2 ISSUED FOR TENDER

ISSUE RECORD

2020-01-29 2020-01-27

2019-11-29

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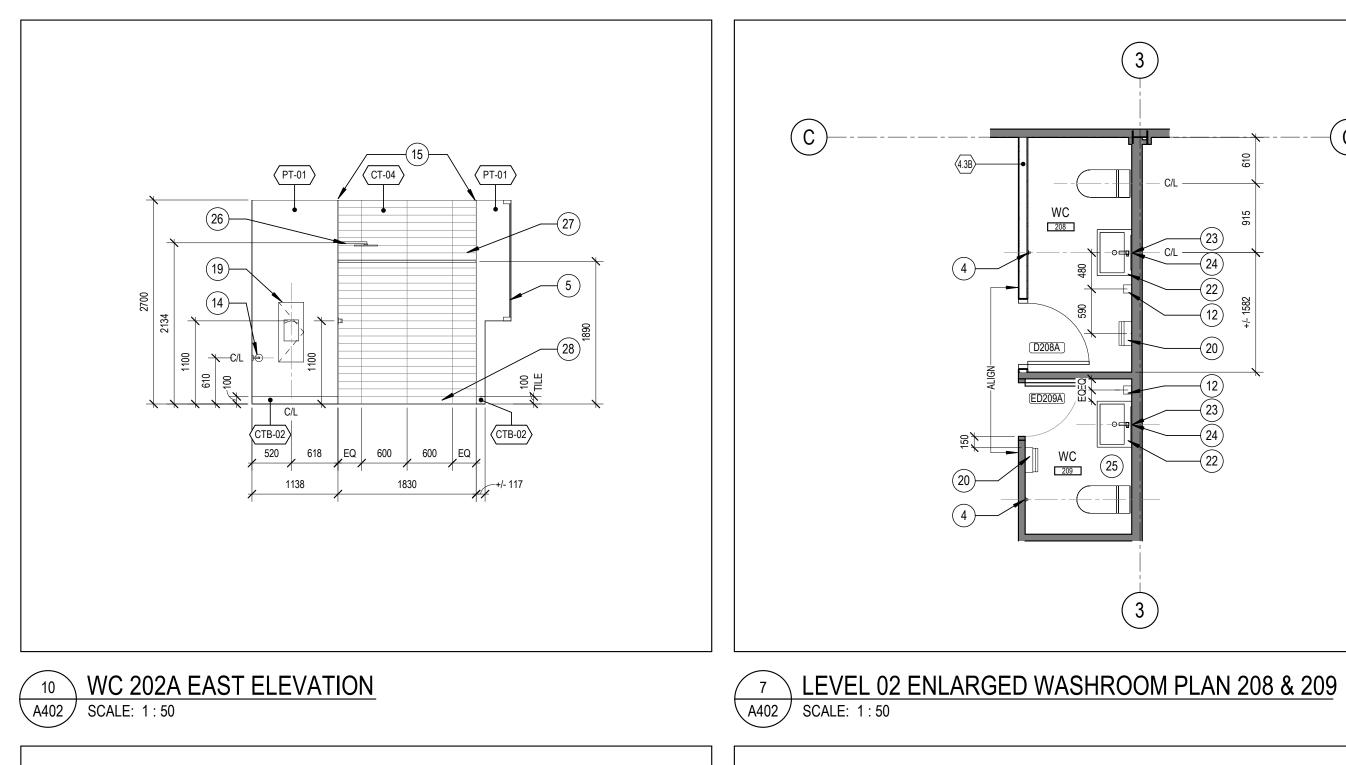
STAIR C - ENLARGED PLANS, SECTIONS, AND DETAILS

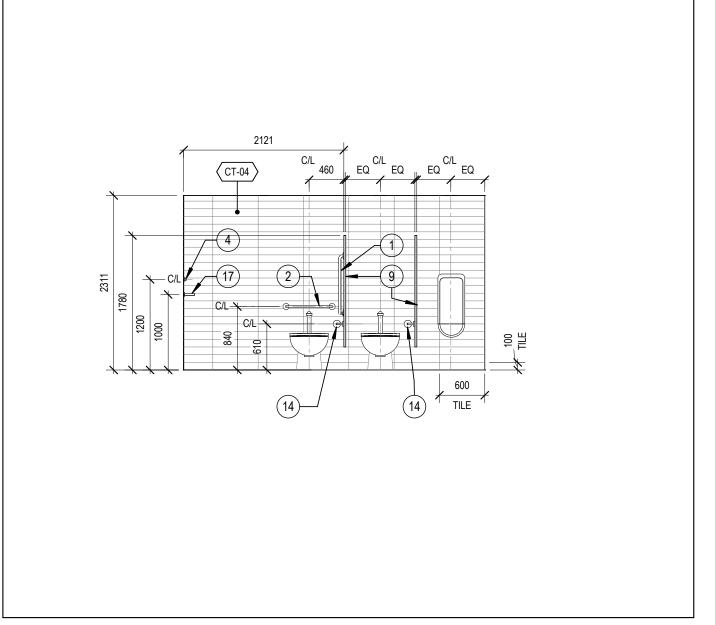
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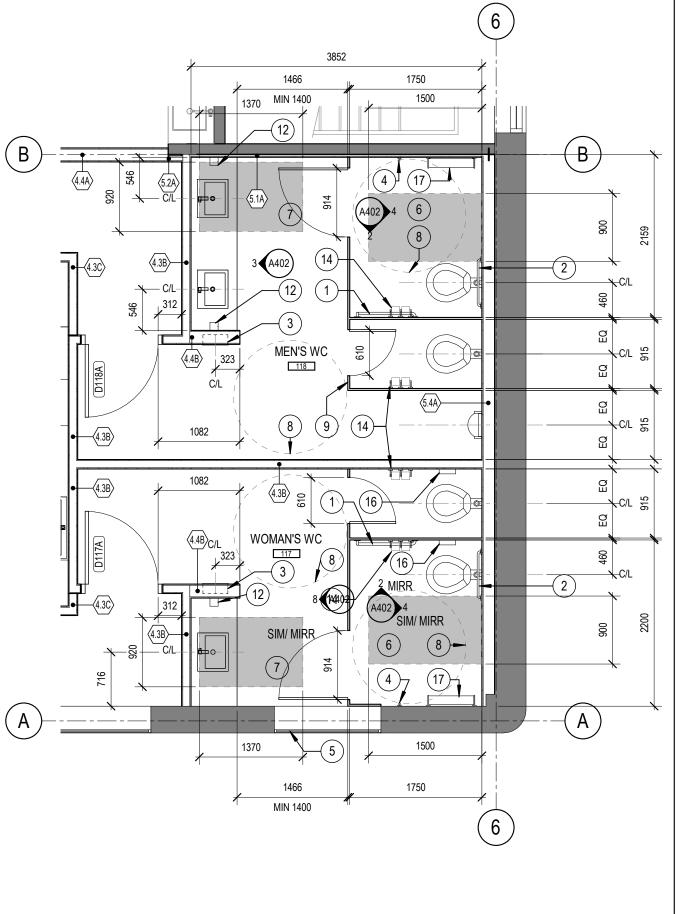
A40⁻¹

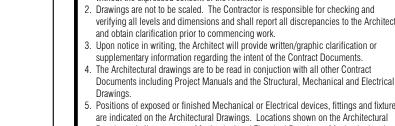
REVIEWED

RMK



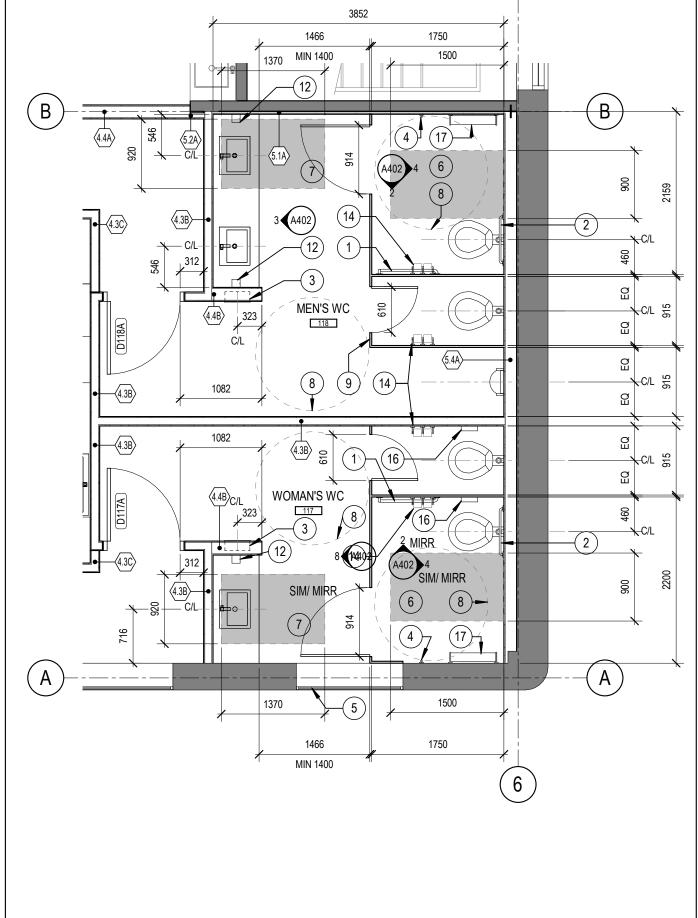


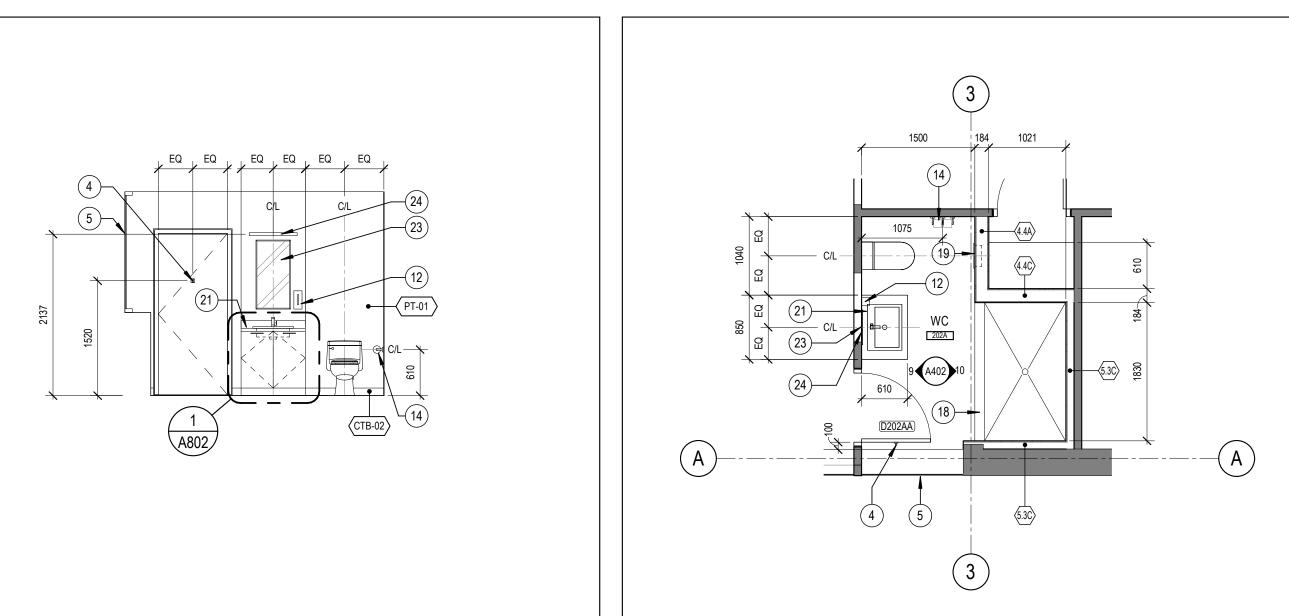




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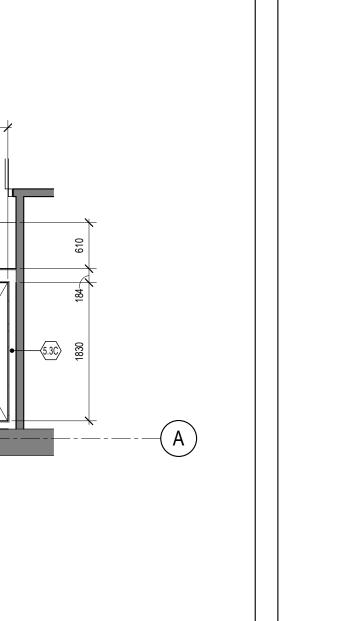




4 MEN'S WC 118 EAST ELEVATION A402 SCALE: 1:50

CT-04

3 MEN'S WC 118 WEST ELEVATION
A402 SCALE: 1:50



LEVEL 01 ENLARGED WASHROOM PLANS 117 & 118 A402 SCALE: 1:50

1 30" X 30" L-SHAPED GRAB BAR (WA-1)

24" GRAB BAR (WA-2) (3) RECESSED PAPER TOWEL DISPENSER AND DISPOSAL (WA-4), INSTALLED WITH TOWEL DISPENSER AT 1100mm AFF.

(4) COAT HOOK (WA-7)

(5) INSTALL OPAQUE FILM (GF-02) TO EXISTING WINDOW

(6) PROVIDE CLEAR TRANSFER SPACE BESIDE WATER CLOSET AS PER OBC 3.8.3.8 (2)

7 PROVIDE CLEAR TRANSFER SPACE IN FRONT OF LAVATORY AS PER OBC 3.8.3.11 (1) (f)

 $ig(\ 9 \ ig)$ FLOOR TO CEILING ANCHORED TOILET PARTITION (TP-01), PROVIDE BLOCKING IN WALLS AND CEILINGS AS REQUIRED.

(10) MIRROR ON 3/4" MDF INSET 1" ON ALL SIDES. EXPOSED SIDES PAINTED BLACK

(11) VANITY LIGHT FIXTURE INSTALLED ON MIRROR, COORDINATE WITH ELEC. DRAWINGS

(12) SURFACE MOUNTED SOAP DISPENSER (WA-5)

(14) SURFACE MOUNTED TOILET PAPER DISPENSER (WA-3), MOUNTED AT 610mm AFF.

(15) INSTALL BRUSHED STAINLESS STEEL TRIM AT EXPOSED EDGE OF TILE

(16) SANITARY NAPKIN DISPOSAL, (WA-06) IN WOMEN'S WC STALLS ONLY

(17) 610mm WALL MOUNTED SHELF (WA-8)

(18) TILE SHOWER CURB

(19) RECESSED PAPER TOWEL DISPENSER AND DISPOSAL (WA-9)

(20) SURFACE MOUNTED PAPER TOWEL DISPENSER AND DISPOSAL (WA-10)

(21) DROP-IN SINK AND VANITY MILLWORK REFER TO MILLWORK DRAWINGS AND MECH. DRAWINGS

(22) WALL MOUNTED SINK, REFER TO MECH. DRAWINGS FOR FIXTURE SPEC.

(23) FRAMED MIRROR (WA-11) INSTALLED W/ TOP AT 2060mm AFF. & CENTERED OVER SINK

VANITY LIGHT INSTALLED AT EXISTING HEIGHT OR, 2137mm AFF. CENTERED OVER SINK IF NEW, COORDINATE WITH ELECTRICAL DRAWINGS

(25) PLUMBING FIXTURES INSTALLED IN EXISTING LOCATIONS, COORDINATE ON SITE

(26) SHOWER HEAD AND CONTROLS, REFER TO MECHANICAL DRAWINGS FOR SPEC

KEYNOTE LEGEND

SCALE: N.T.S.

27) SHOWER CURTAIN ROD (WA-12)

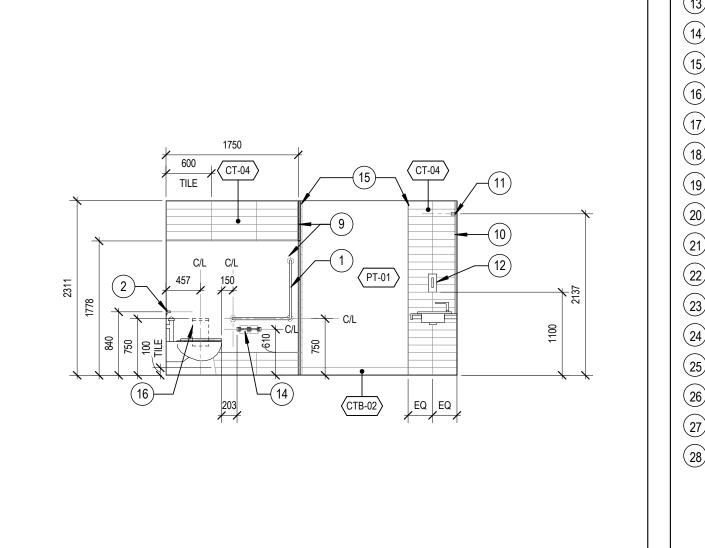
28 CERAMIC TILE CURB

9 WC 202A WEST ELEVATION
A402 SCALE: 1:50 (11)(15)(12)(3)

5 LEVEL 01 ENLARGED WASHROOM PLAN 109
SCALE: 1:50

6 LEVEL 02 ENLARGED WASHROOM PLAN 202A
SCALE: 1:50

2 MEN'S WC 118 SOUTH ELEVATION
SCALE: 1:50



C/L C/L

C/L

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DRAWN AP/ 1927 1:50

WC - ENLARGED PLANS AND **ELEVATIONS**

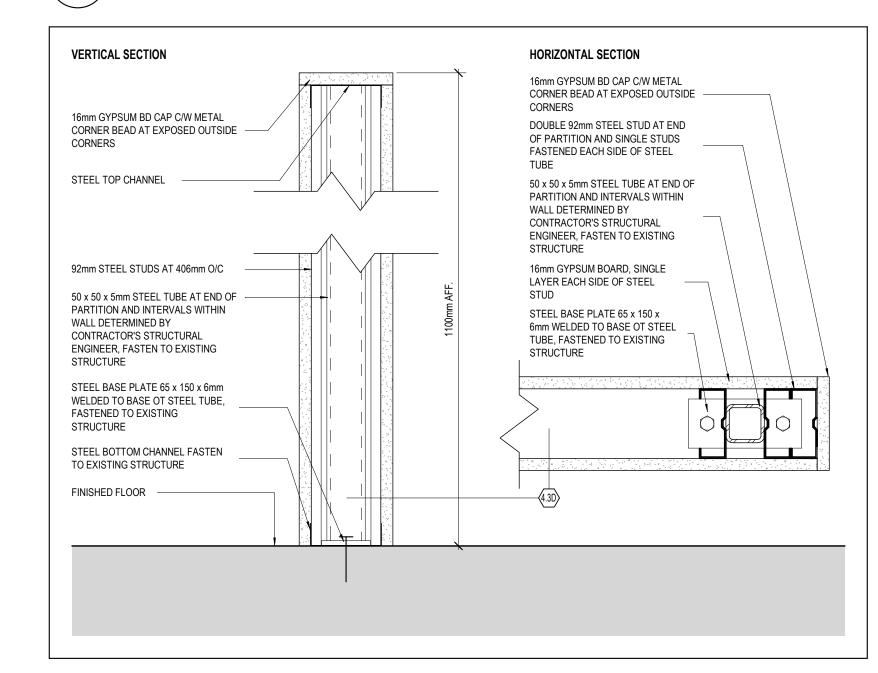
REVIEWED

RMK

8 WOMAN'S WC 117 WEST ELEVATION
SCALE: 1:50

EXISTING 90mm SQUARE GRID COLOURED FACE BLOCK EXISTING 50mm RIGID INSULATION SEALANT BETWEEN GRILLE AND C/W VAPOUR BARRIER EXISTING STRUCTURE ON TOP AND SIDES OF GRILLE, SEALANT EXISTING 240mm CONC. BLOCK EXCLUDED ON BOTTOM FACE DOUBLE WALL BOX EXHAUST VENT. REFER TO MECH. DRAWINGS BAFFLE AND NEOPRENE BACKDRAFT DAMPER HINGED AT TOP OF WALLBOX 6" DIAMETER RIGID DUCT WITH 1" THICK THERMAL INSULATION C/W VAPOUR BARRIER. REFER TO MECH. DRAWINGS SEALANT BETWEEN WALLBOX AND EXISTING STRUCTURE ON ALL SEALANT AND BACKER ROD —— BETWEEN INSULATED DUCT AND FOUR SIDES NEW VOID IN CMU WALL AROUND CIRCUMFERENCE OF DUCT

3 WC VENT PENETRATION THROUGH EXTERIOR WALL A701 / SCALE: 1:10



2 SECTION DETAILS AT LOW HEIGHT PARTITION 4.1D A701 SCALE: 1:5

GYPSUM BOARD BULKHEAD BRACING TO STRUCTURE

ENGINEER.

ACT CEILING -

16mm GYPSUM BOARD

UPSTAND

SECTION DETAIL AT MTG RM BULKHEAD

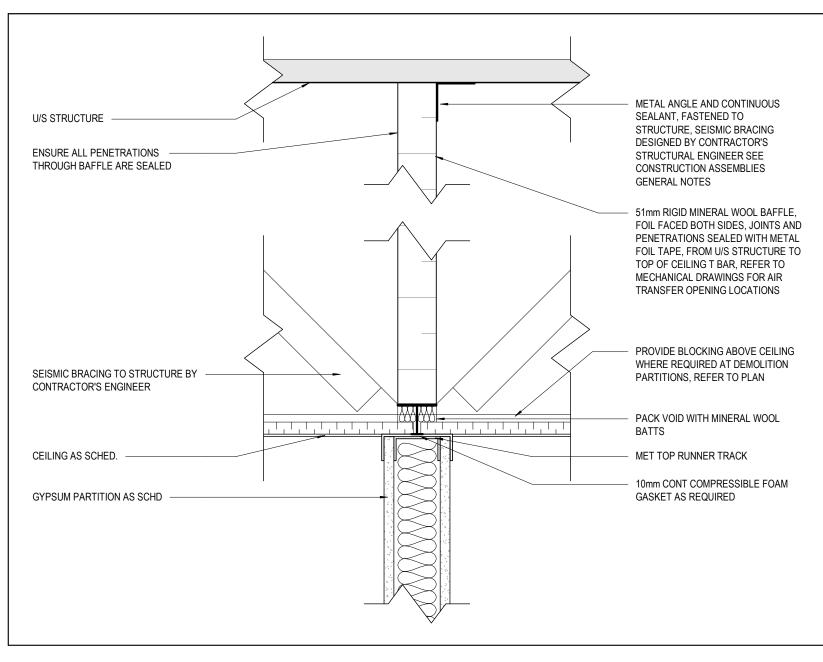
SCALE: 1:5

16mm GYPSUM BOARD BULKHEAD C/W CORNER -

BEADS AT ALL EDGES

DESIGNED BY CONTRACTOR'S

ACT EDGE TRIM AT BULKHEAD -



1 PARTITION TYPE 3.4E DETAIL AT CEILING
A701 SCALE: 1:5

ENERAL ARCHITECTURAL NOTES:

such purpose.

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2020-01-29

2020-01-27

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FREEMAN FIT-UP

5 RE-ISSUED FOR CONSTRUCTION

4 ISSUED FOR CONSTRUCTION

1 ISSUED FOR BUILDING PERMIT

2 ISSUED FOR TENDER

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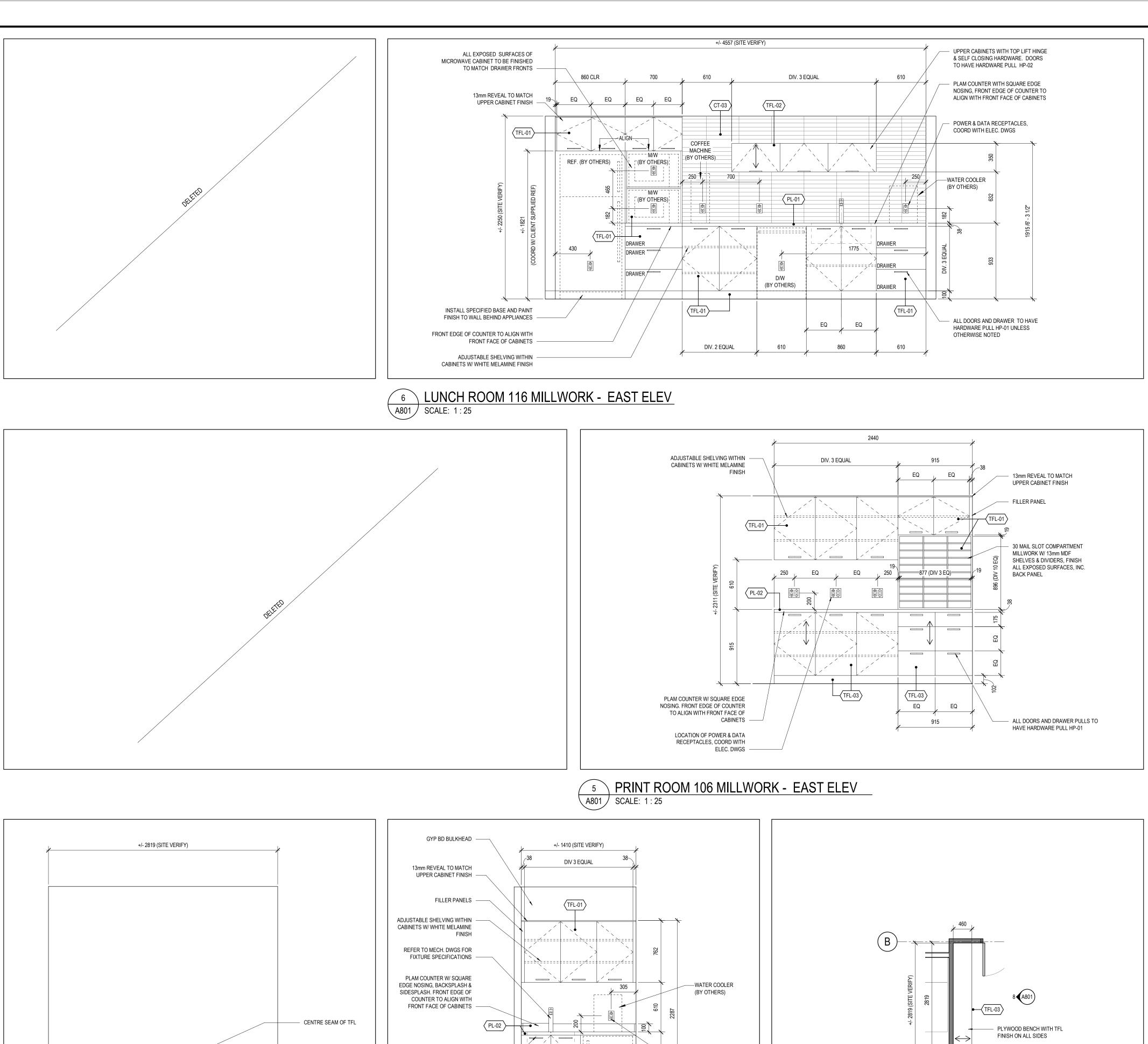
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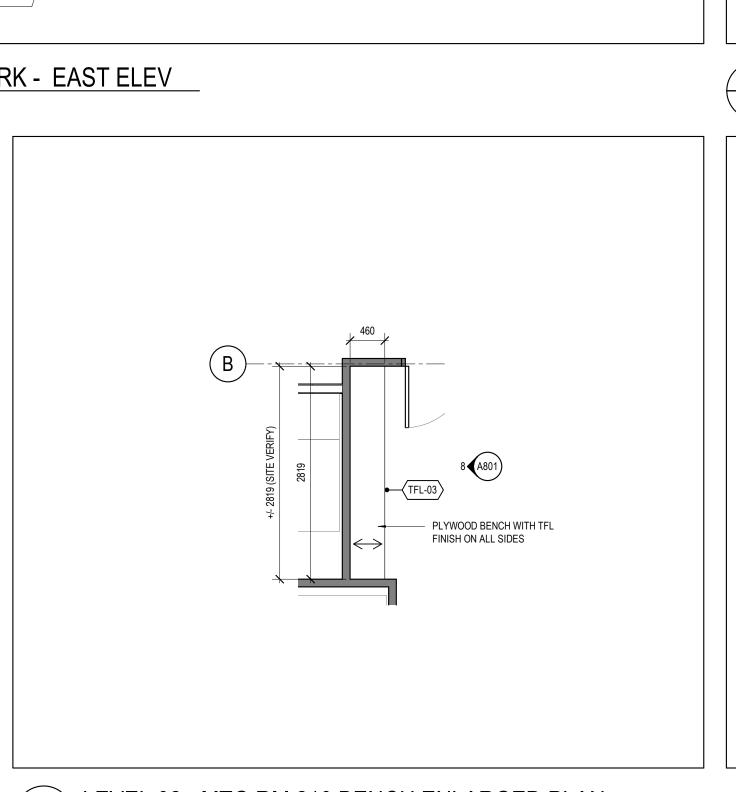
DRAWN 1927 NOTED AP/

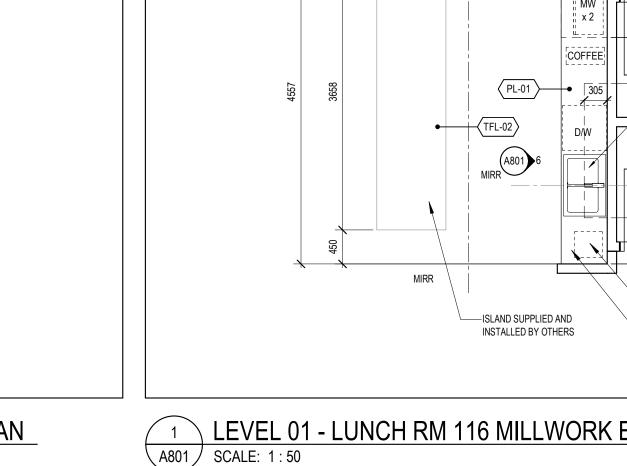
INTERIOR DETAILS

REVIEWED

RMK







1 LEVEL 01 - LUNCH RM 116 MILLWORK ENLARGED PLAN

SCALE: 1:50

2020-01-27 4 ISSUED FOR CONSTRUCTION 2019-11-29 2 ISSUED FOR TENDER 1 ISSUED FOR BUILDING PERMIT 2019-11-15

2020-01-29

ISSUE RECORD

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FREEMAN FIT-UP

- REFER TO MECH. DWGS FOR FIXTURE SPECIFICATIONS

-WATER COOLER —SQUARE EDGE PLAM

COUNTERTOP, PROVIDE BEAD

CLEAR CAULKING AT WALL.

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Ottawa ON

DRAWN 1927 NOTED WB

MILLWORK PLANS, **ELEVATIONS, AND DETAILS**

REVIEWED

RMK

LOCATION OF POWER & ALL DOORS TO HAVE DATA RECEPTACLES, HARDWARE PULL HP-01 COORD WITH ELEC. HUNDERCOUNTER REF. (BY OTHERS) DIV 2 EQUAL - INSTALL SPECIFIED BASE AND PAINT FINISH TO WALL BEHIND APPLIANCES

CORRIDOR 200 MILLWORK - NORTH ELEV A801 SCALE: 1:25

4 LEVEL 02 - MTG RM 210 BENCH ENLARGED PLAN
SCALE: 1:50

PLYWOOD BENCH WITH TFL FINISH PLYWOOD LEG WITH TFL TFL-03 (TFL-03) SPECIFIED BASE ALONG 2819

8 MTG RM 210 BENCH MILLWORK - WEST ELEV A801 SCALE: 1:25

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LEVEL 02 - CORR. 200 MILLWORK ENLARGED PLAN A801 | SCALE: 1:25

REFER TO MECH. DWGS FOR

SQUARE EDGE PLAM COUNTERTOP, PROVIDE BEAD CLEAR CAULKING AT

FIXTURE SPECIFICATIONS

-SQUARE EDGE PLAM COUNTERTOP, PROVIDE BEAD CLEAR CAULKING AT —MAIL SLOT COMPARTMENTS

+/- 1410 (SITE VERIFY)

UNDER

COUNTER REF-

2 LEVEL 01 - PRINT RM 106 MILLWORK ENLARGED PLAN

A801 SCALE: 1:50

PARTITION TYPE AS SPECIFIED -MIRROR ON 19mm MDF 19mm PLYWOOD COUNTER W/ PLAM FINISH REFER TO MECH. DWGS FOR - 6mm FACE PLATE WELDED TO DROP IN SINK AND FAUCET SPEC. HSS TO SUPPORT VALANCE 610 INSULATE EXPOSED PIPES BELOW COUNTER -- 19mm PLYWOOD VALANCE W/ PLAM FINISH, MITRE CORNER APPLY CLEAR BEAD OF CAULKING WHERE -COUNTERTOP MEETS WALL WELDED HSS SUPPORTS 205 MIN. BEYOND 1300 MIN. DASHED LINE INDICATES
BARRIER FREE CLEARANCES BELOW VANITY 6mm BASE PLATE WELDED TO HSS AND ANCHORED TO SLAB WC 117 & 118 VANITY SECTION PROVIDE BEAD CLEAR CAULKING AT

PROVIDE BEAD CLEAR CAULKING AT
JUNCTION OF COUNTER &
BOKKSPLASH

PLAM COUNTER W: SQUARE EIGE
NOSING & BACKSPLASH - ROMT
EDGE OF COUNTER TO ALIGN WITH
FRONT FACE OF CABINETS

REFER TO MECH. DIVISS FOR
FIXTURE SPECIFICATIONS

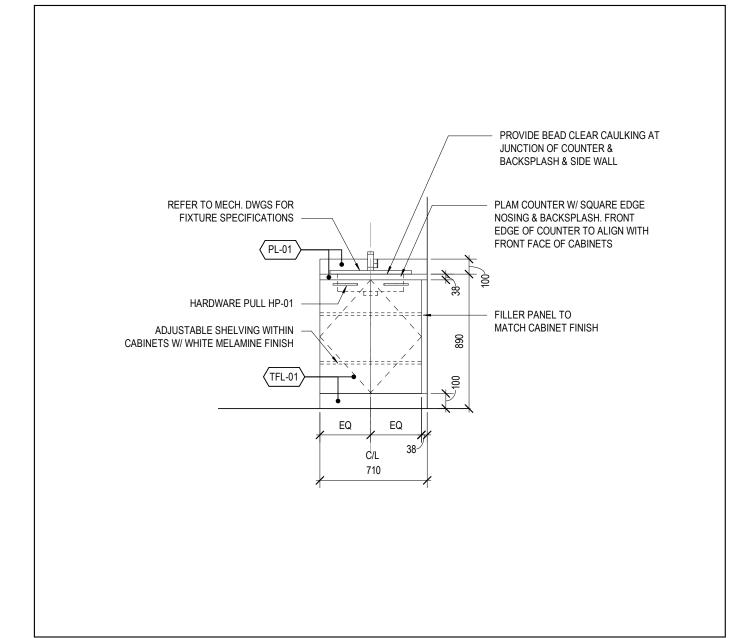
HARDWARE PULL HP-01

ADJUSTABLE SHELVING WITHIN
CABINETS W: WHITE MELAMINE FINISH

TEL-01

EQ EQ
C/L
850

WASHROOM 202A - VANITY ELEV SCALE: 1:25



1 WASHROOM 109 - VANITY ELEV
A802 SCALE: 1:25

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 2020-01-29

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 2020-01-27

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2019-11-15

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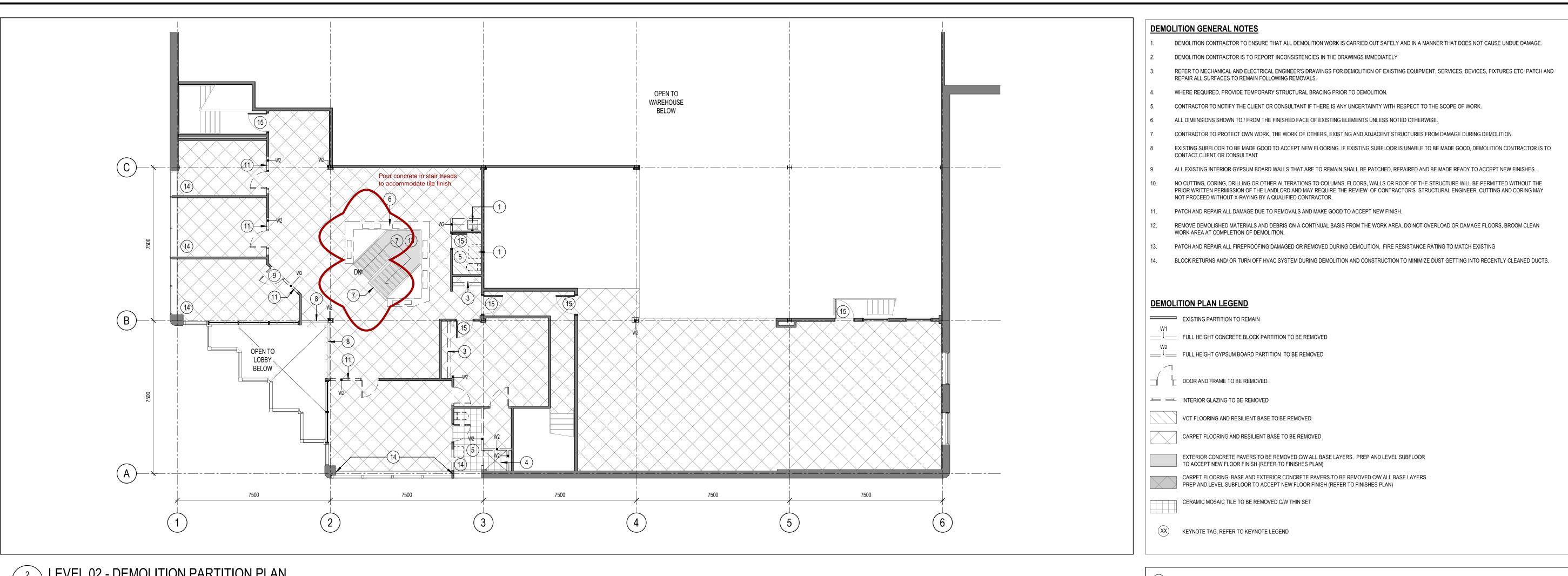
1927 NOTED WB

MILLWORK CONTINUED

A802

DRAWN REVIEWED

RMK







1 MILLWORK TO BE REMOVED , REFER TO MECH. DWGS FOR PLUMBING REMOVALS

2 WALL MOUNTED COUNTER TO BE REMOVED

3 CLOSET MILLWORK TO BE REMOVED

4 REMOVE SHOWER CURB AND BASE C/W CERAMIC TILE ON WALL & CEILING SURFACES TO BE REMOVED, REFER TO MECH. DWGS FOR PLUMBING REMOVALS

3 ALL PLUMBING FIXTURES WITHIN THIS AREA TO BE REMOVED, REFER TO MECH DWGS

6 1062MM HIGH GYPSUM BOARD PLANTER TO BE REMOVED

ALL GLASS FROM EXISTING STAIR RAILINGS AND GUARDS TO BE REMOVED. RETAIN ALL RAILING, BALUSTERS, BRACKETS AND MOUNTING HARDWARE FOR REINSTALLATION. EXISTING PLYWOOD CURB TO REMAIN, CARPET TO BE REMOVED.

GLASS FROM EXISTING GUARDS TO BE REMOVED. RETAIN ALL RAILING, BALUSTERS, BRACKETS AND MOUNTING HARDWARE FOR REINSTALLATION. EXISTING PLYWOOD CURB TO REMAIN, CARPET TO BE REMOVED

9 REMOVE AND RETAIN DOOR AND FRAME FOR REINTALLATION IN OFFICE 111, REFER TO PARTITION PLAN. RETAIN ALL HARDWARE EXCEPT FOR DOOR KNOB

9 REMOVE AND RETAIN DOOR AND FRAME FOR REINTALLATION IN OFFICE 111, REFER TO PARTITION PLAN. RETAIN ALL HARDWARE EXCEPT FOR DOOR KNOB

(10) REMOVE EXISTING DOOR AND FRAME

(11) PORTION OF PARTITION TO BE REMOVED TO ACCOMODATE NEW DOOR AND FRAME, COORDINATE WITH PARTITION PLAN

EXTERIOR CONCRETE PAVERS C/W BASE LAYERS FROM STAIRS TREADS AND LANDINGS TO BE REMOVED. PREP AND LEVEL REMAINING SURFACES TO ACCEPT NEW FLOOR FINISH (REFER TO FINISHES PLAN)

(14) BLINDS TO BE REMOVED

(15) DOOR KNOB HARDWARE TO BE REMOVED

(16) EXISTING SINK AND COUNTER TO REMAIN

PROVIDE TRENCHING IN THIS AREA TO ACCOMODATE NEW PLUMBING AND ELECTRICAL, COORD WITH MECH & ELEC DWGS. PATCH AND LEVEL FLOOR SUBSTRATE TO MAKE READY FOR NEW FINISHES

(18) CONTRACTOR TO COMPLETE MOLD REMEDIATION WHERE MOLD IS PRESENT AT EXISTING LEVEL 1 WASHROOMS AND SHOWERS

KEYNOTE LEGEND
SCALE: N.T.S.

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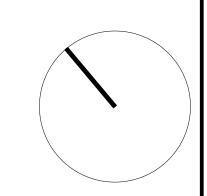
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PROJ SCALE DRAWN
1927 1:100 WB

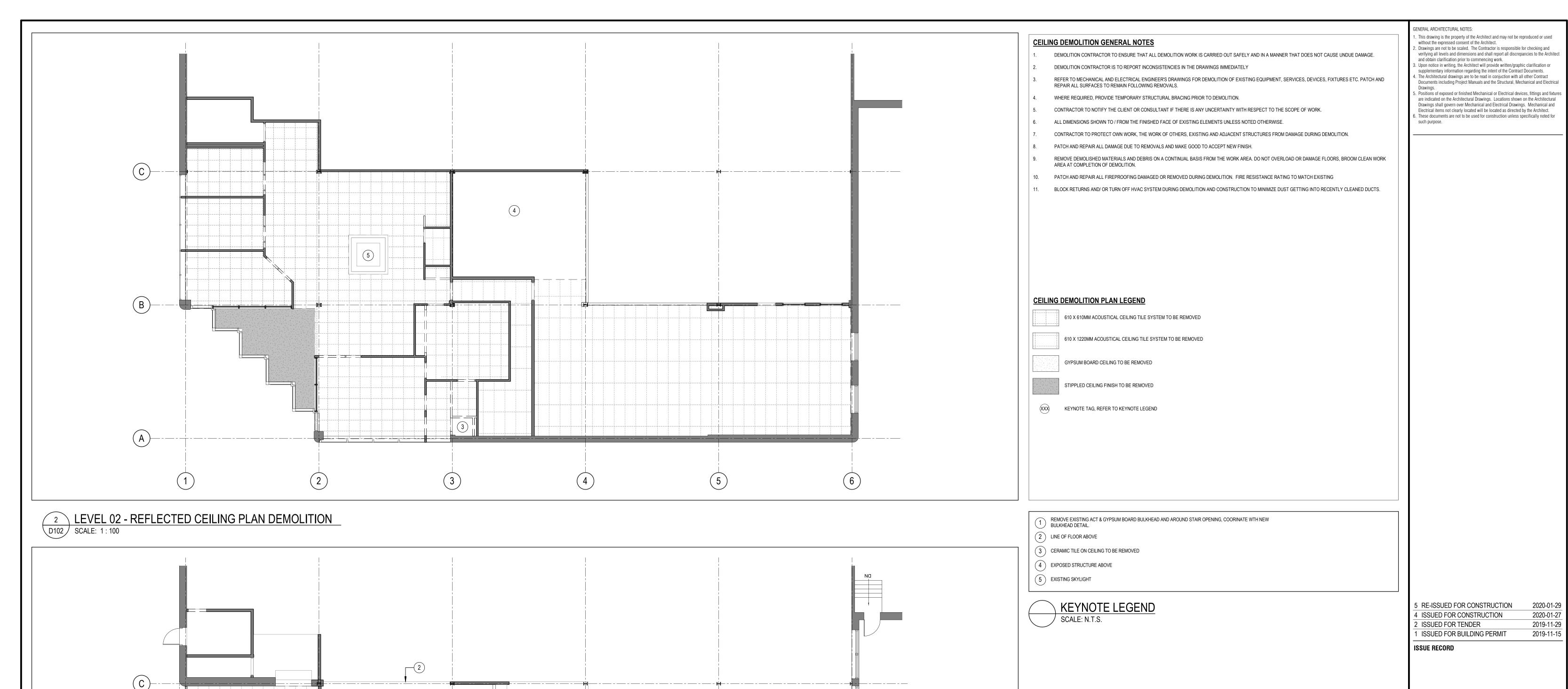
LEVEL 01 & 02 - DEMOLTION PARTITON PLANS

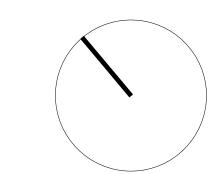
D101

RMK

1 LEVEL 01 - DEMOLITION PARTITION PLAN

D101 | SCALE: 1:10





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PROJ SCALE DRAWN
1927 1:100 WB

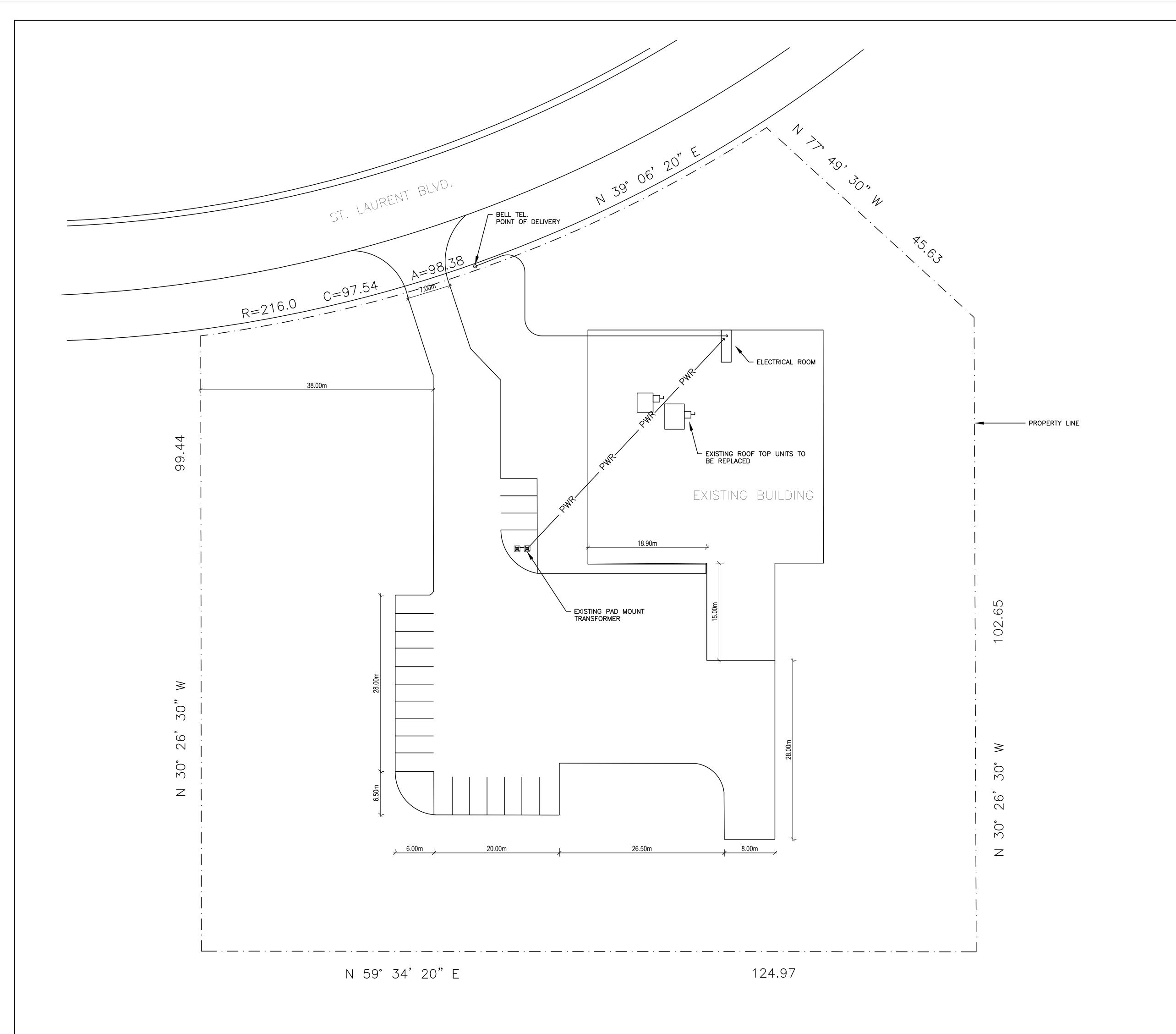
1.100 110

LEVEL 01 & 02 - DEMOLTION CEILING PLANS

D102

DRAWN REVIEWED

B



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8	RE-ISSUED FOR CONSTRUCTION	29 JAN 2020
7	ISSUED FOR CONSTRUCTION	24 JAN 2020
6	ISSUED FOR CCNE-03	15 JAN 2020
5	ISSUED FOR CCNE-01	09 JAN 2020
4	ISSUED FOR ADD-E02	16 DEC 2019
3	ISSUED FOR ADD-E01	13 DEC 2019
2	ISSUED FOR PRICING	29 NOV 2019
1	ISSUED FOR PERMIT	15 NOV 2019
NO.	REVISION	DATE
PROJECT		

2295 ST. LAURENT FIT UP

OTTAWA, ONTARIO

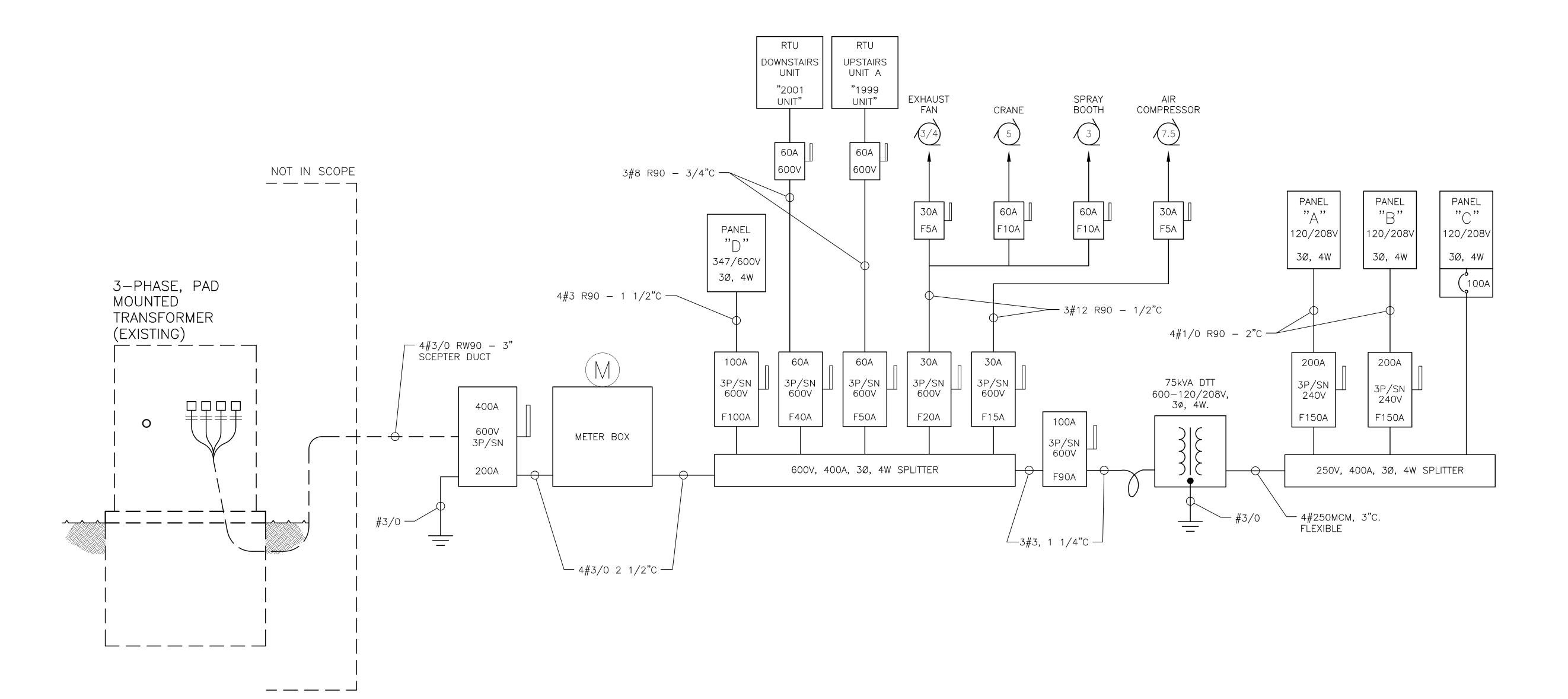
QUA RAN7

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	CURRENT	DATE Wed, 29 Jan 2020, 10 57					
	SCALE	NTS					
	DRAWN	YD					
	DESIGNED	YD					
	CHECKED	LVDL					
	PROJECT	19-Q025					
	DRAWING NUMBER						
	E	-001					

SITE PLAN

Drawing name: \Quad-10\shared folders\OneDrive\Jobs\2019\19-Q025 2295 St Laurent Office Fit Up\02 Drawings\Electrical\19-Q025E Electrical.dwg



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8	RE-ISSUED FOR CONSTRUCTION	29 JAN 2020
7	ISSUED FOR CONSTRUCTION	24 JAN 2020
6	ISSUED FOR CCNE-03	15 JAN 2020
5	ISSUED FOR CCNE-01	09 JAN 2020
4	ISSUED FOR ADD-E02	16 DEC 2019
3	ISSUED FOR ADD-E01	13 DEC 2019
2	ISSUED FOR PRICING	29 NOV 2019
1	ISSUED FOR PERMIT	15 NOV 2019
NO.	REVISION	DATE

2295 ST. LAURENT FIT UP

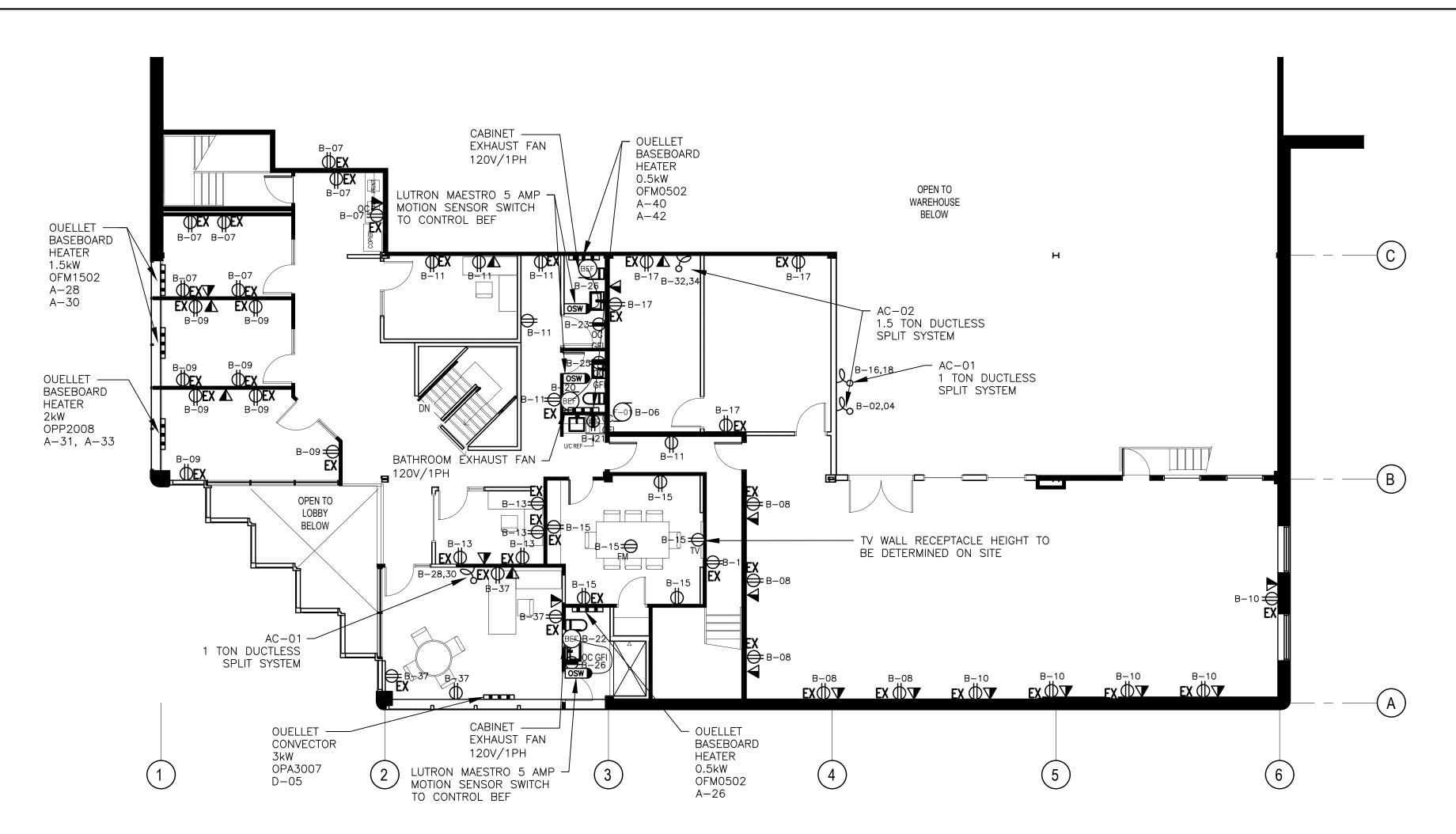
OTTAWA, ONTARIO

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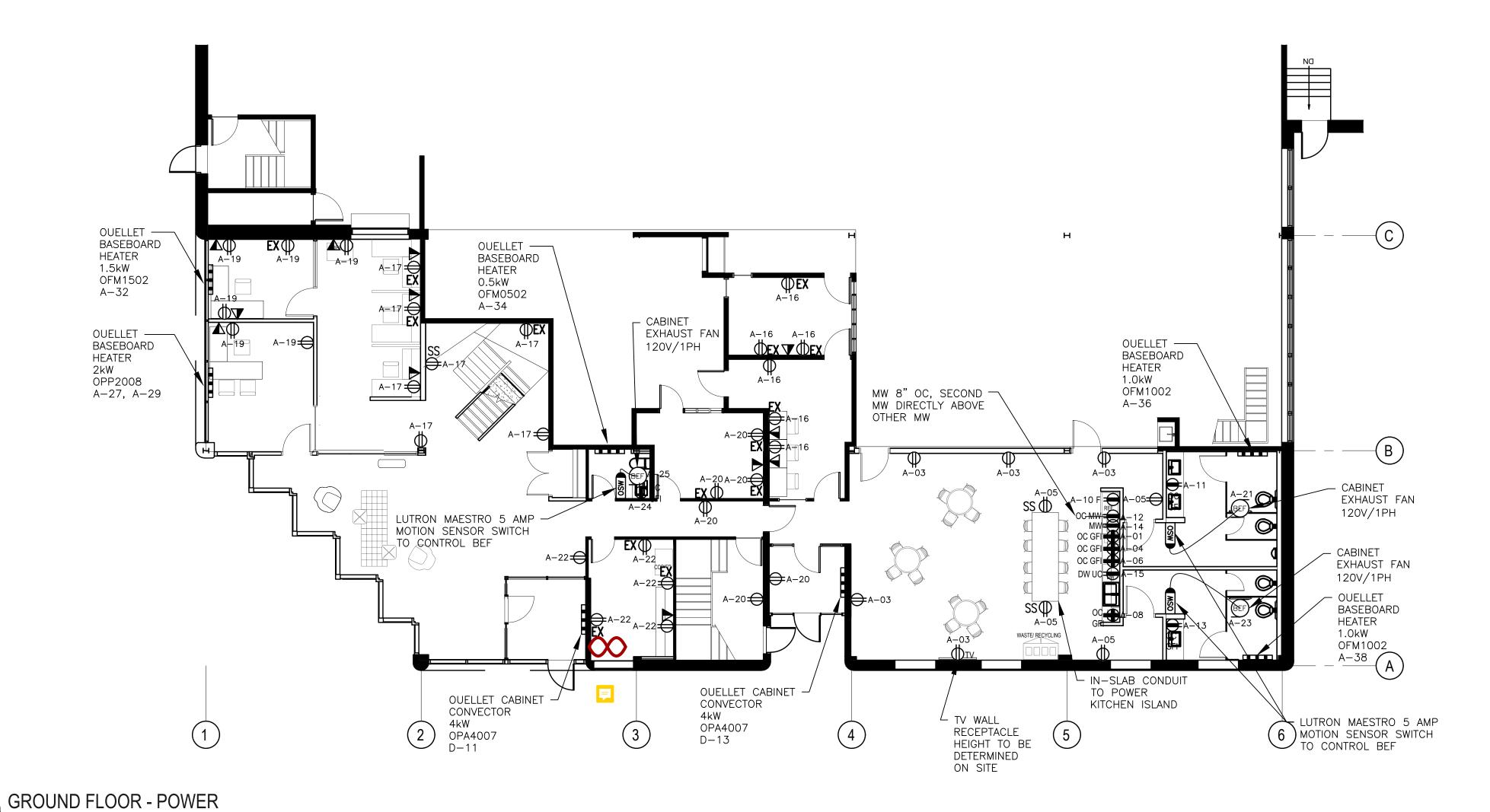
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CHECKED	LVDL					
PROJECT	19-Q025					
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DISTRIBUTION DRAWING



2 2ND FLOOR - POWER SCALE: 1:100

E-200 SCALE: 1:100



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ALL EXISTING FLOOR MOUNTED

RECEPTACLES TO BE REPLACED UNITS

EXIST WITH THE CROWN

ALL RECEPTACLES TO BE 8" ABOVE MILLWORK. OTHERWISE HEIGHT TO BE

All base heaters replaced

FIRE ALARM PANEL TO THE ALARM

SYSTEM ON THE SECOND FLOOR

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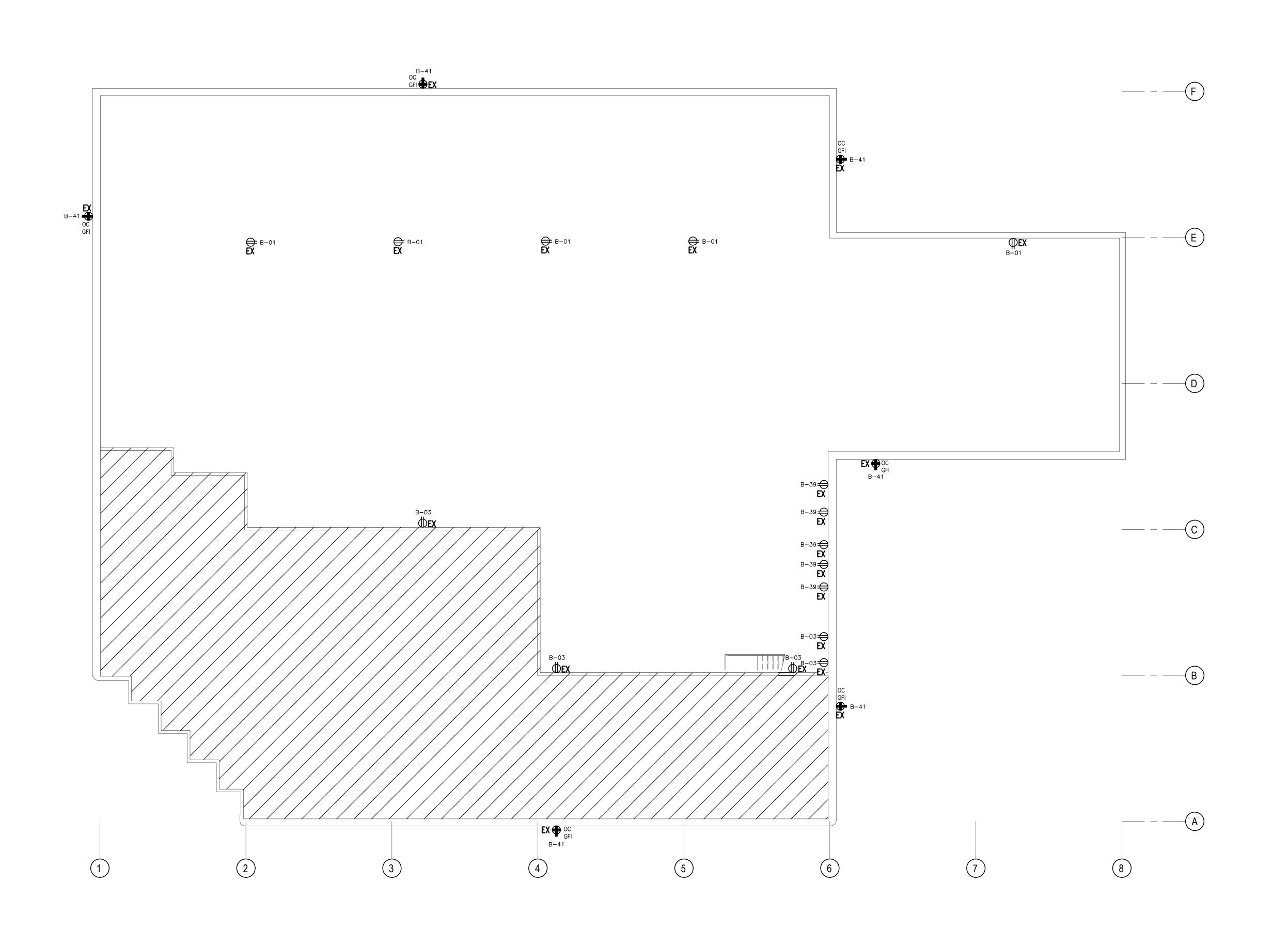
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il@quaarantengineering.ca							
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	DESIGNED	YD					
	CHECKED	LVDL					
	PROJECT	19-Q025					
	DRAWING NUMBER E — 200						

POWER LAYOUT

Drawing name: \Quad—10\shared folders\OneDrive\Jobs\2019\19—Q025 2295 St Laurent Office Fit Up\02 Drawings\Electrical\19—Q025E Electrical.dwg



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GENERAL NOTES:

- ALL EXISTING FLOOR MOUNTED RECEPTACLES TO BE REPLACED UNITS FLUSH WITH THE GROUND
- ALL RECEPTACLES TO BE
 8" ABOVE MILLWORK.
 OTHERWISE HEIGHT TO
 BE COORDINATED ON
 SITE
- WHERE APPLICABLE, EXISTING BASEBOARD HEATERS TO REMAIN

2	ISSUED FOR PRICING	29 NOV 201
1	ISSUED FOR PERMIT	15 NOV 201
NO.	REVISION	DATE

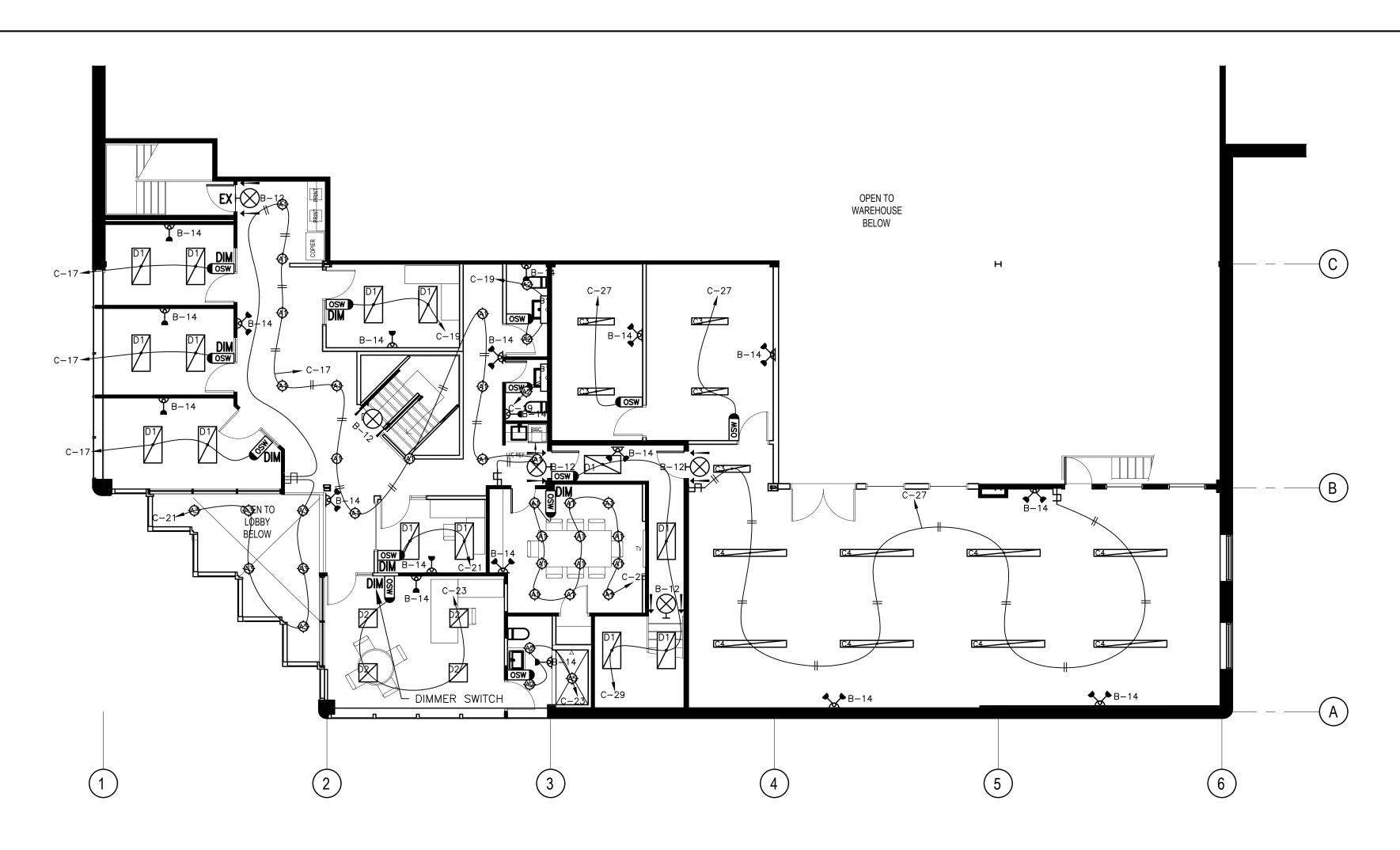
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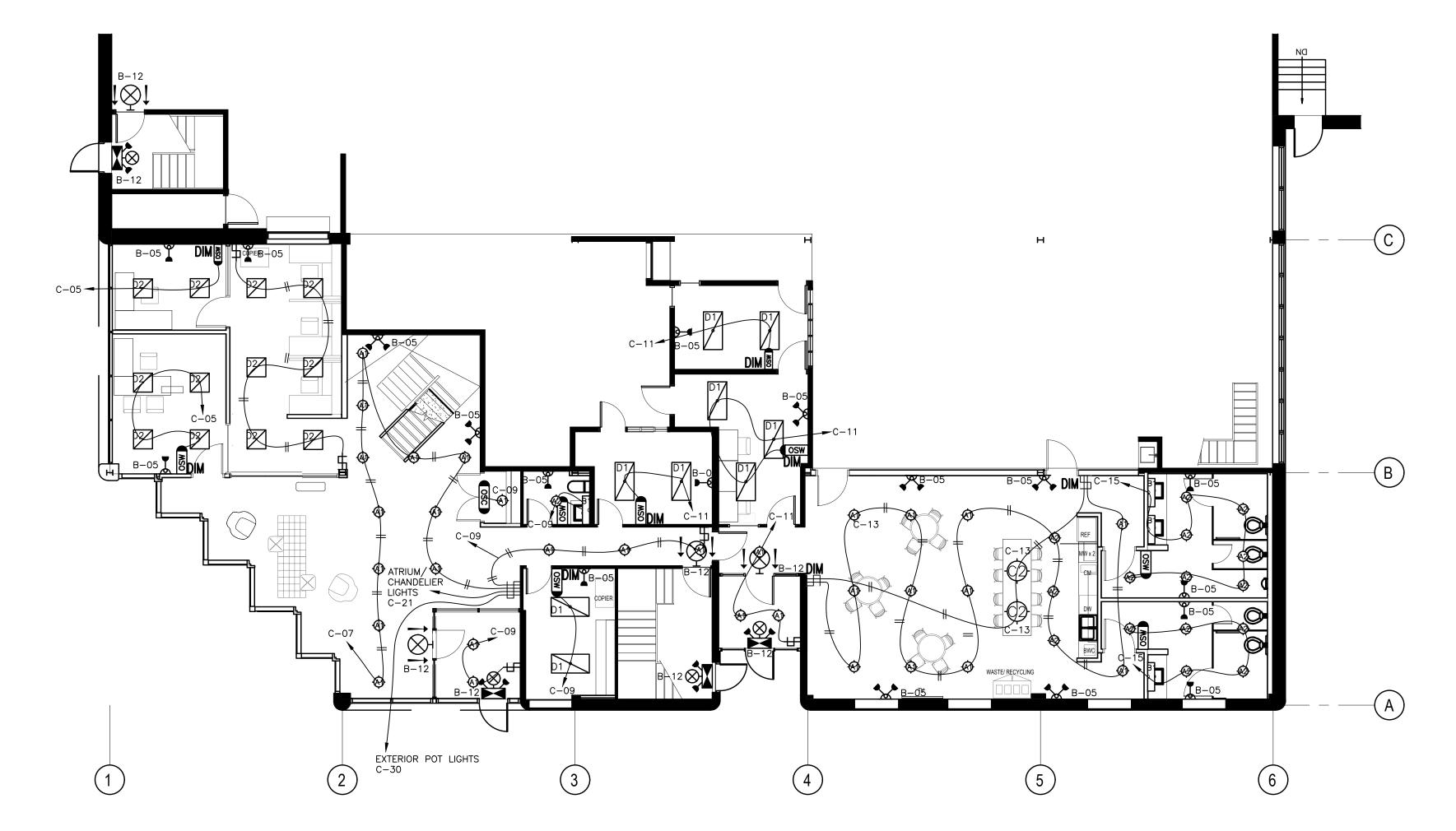
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PROJECT	19-Q025			
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POWER LAYOUT WAREHOUSE



2 2ND FLOOR - LIGHTING SCALE: 1:100



1 GROUND FLOOR - LIGHTING SCALE: 1:100

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THESE DOCUMENTS BY OTHERS.

UPON WRITTEN APPLICATION QE WILL PROVIDE WRITTEN CLARIFICATION REGARDING THE INTENT OF THE CONTRACT

QE BEARS NO RESPONSIBILITY FOR INTERPRETATIONS OF

DOCUMENTS.

QE REVIEW OF SHOP DRAWINGS SUBMITTED BY THE

CONTRACTOR IS FOR DESIGN CONFORMANCE ONLY.

THE DESIGN TEAM BEFORE COMMENCING WORK.

DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION.
CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS,
ON SITE, REQUIRED TO PERFORM THE WORK AND REPORT
ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO

	T	T
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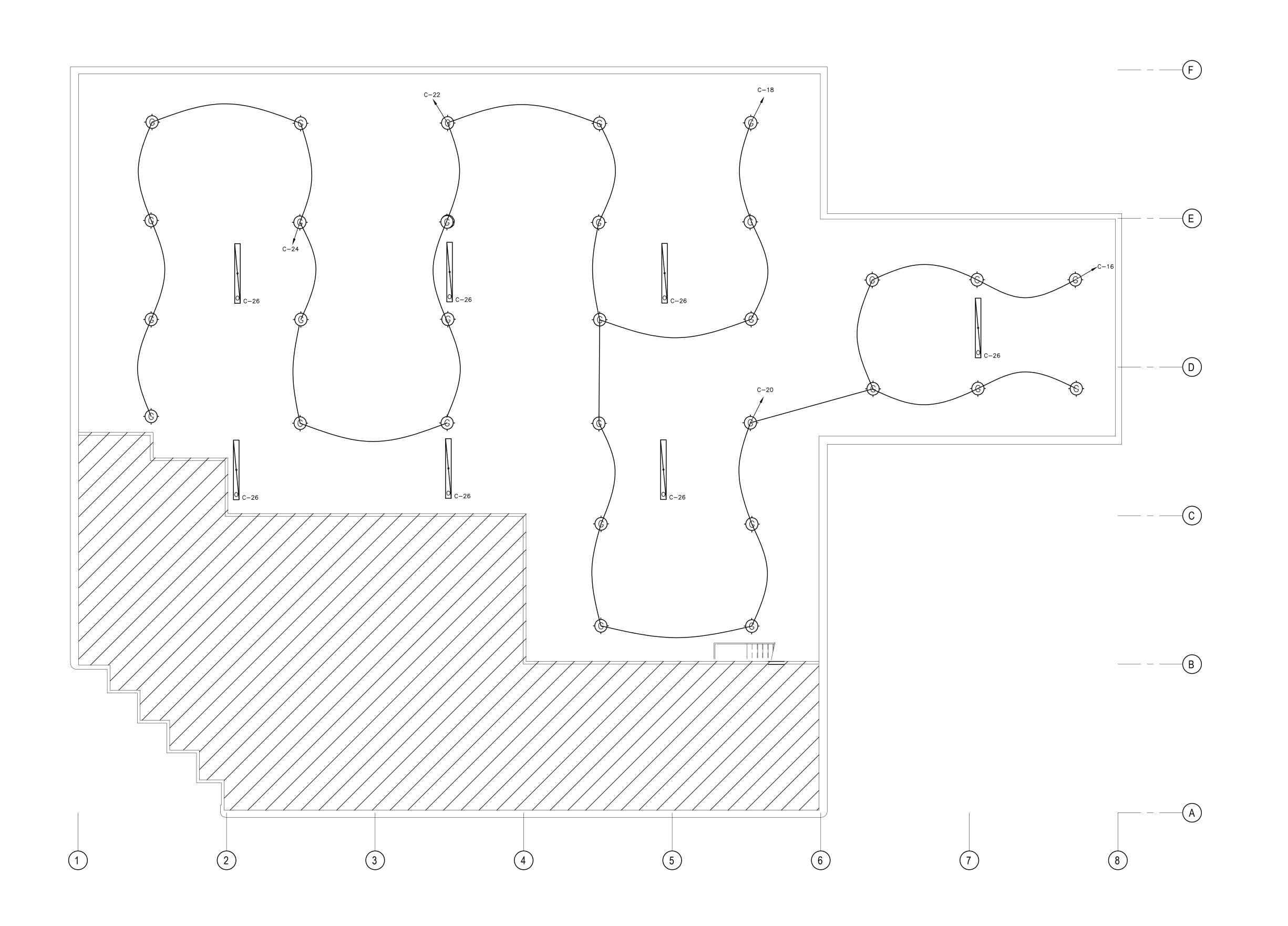
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		DESIGNED	YD		
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LIGHTING LAYOUT



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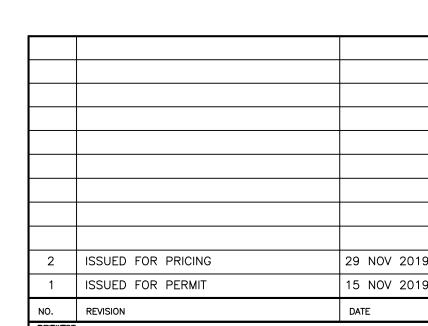
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LIGHTING LAYOUT WAREHOUSE

ELECTRICAL SPECIFICATION

GENERAL:

ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY WORKERS SKILLED IN THAT PARTICULAR PORTION OF 16. THE CONTRACT.

SITE EXAMINATION:

EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK UNDER THIS DIVISION CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCES WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.

GUARANTEE:

GUARANTEE ALL WORK FOR TWELVE (12) MONTHS FROM _ DATE OF ACCEPTANCE.

PROTECTION:

ENSURE THAT ALL PROTECTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE.

SCOPE OF WORK:

PERFORM ALL WORK AS SHOWN ON ELECTRICAL DRAWINGS AND AS COVERED IN THESE SPECIFICATIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS REGARDING HANDLING, INSTALLING AND TESTING OF EQUIPMENT SPECIFIED HEREIN.

MATERIALS:

USE ONLY NEW MATERIALS, FULLY CERTIFIED FOR USE AS INSTALLED, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS.

CLEAN-UP:

DURING THE COURSE OF INSTALLATION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM THIS WORK, TO THE SATISFACTION OF 22. THE ENGINEER. CHECK, CLEAN AND REPAINT WHERE NECESSARY ALL ELECTRICAL EQUIPMENT, AND LEAVE IT IN FIRST CLASS CONDITION.

GROUNDING:

GROUND ALL EQUIPMENT WITH APPROVED FITTINGS AND GROUND CONDUCTORS . ONTARIO ELECTRICAL SAFETY CODE OF AMPLE CAPACITY AS REQUIRED BY THE ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION.

RACEWAY AND FITTINGS:

INSTALL ALL WIRING IN EMT CONDUIT WITH THE FOLLOWING EXCEPTIONS:

WIRING EXPOSED TO WEATHER.

USE RIGID PVC CONDUIT OR ELECTRICAL NON-METALLIC TUBING (COR-LINE) FOR WIRING EMBEDDED IN CONCRETE SLAB.

USE RIGID PVC CONDUIT FOR UNDERGROUND WIRING &

USE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO RECESSED LIGHTING FIXTURES. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR

CONNECTIONS TO MOTORS EXPOSED TO WEATHER.

ARMOURED CABLE TYPE AC90 MAY BE USED FOR BRANCH WIRING IN CEILING SPACE AND DOWN TO OUTLETS IN METAL STUD PARTITIONS. NMD90 MAY BE USED IN WOOD FRAME WHERE ACCEPTABLE TO E.S.A.

10. WIRING:

WIRING TO BE COPPER CONDUCTORS, No. 12 AWG MINIMUM OR AS INDICATED, CROSS LINKED POLYETHYLENE INSULATION RW90, EXCEPT AS FOLLOWS: No. 14 AWG FOR CONTROL CIRCUITS FOR MECHANICAL EQUIPMENT.

No. 14 AWG MAY BE USED WITHIN SUITES.

11. WIRING DEVICES:

SWITCHES AND RECEPTACLES TO BE SPECIFICATION GRADE. COVERPLATES FOR ALL WIRING DEVICES IN FLUSH MOUNTED OUTLET BOXES TO BE IVORY, FOR SURFACE MOUNTED BOXES TO BE GALVANIZED SHEET STEEL.

12. PHOTOELECTRIC CELL:

TO BE WEATHERPROOF ENCLOSED, UNAFFECTED BY HUMIDITY, SPST, OPERATING RANGE -40° TO 60°. CONTROL SWITCH TO BE RATED MINIMUM 5A AT 120V TO TURN "ON" AND "OFF" OUTSIDE LIGHTS THROUGH LIGHTING CONTACTOR.

DISCONNECT SWITCHES:

TO BE HEAVY DUTY, FUSED OR UNFUSED AS INDICATED, AND SIZED AS SHOWN ON THE DRAWINGS. DISCONNECT SWITCHES EXPOSED TO WEATHER TO HAVE WEATHERPROOF ENCLOSURE.

14. PANELBOARDS:

PANELS TO BE SURFACE-MOUNTED (OR FLUSH MOUNTED WHERE INDICATED) CODE GAUGE PAINTED STEEL WITH LOCKABLE DOOR AND CONCEALED TRIM SCREWS. BREAKERS TO BE AMBIENT COMPENSATED, TRIP FREE, BOLTED TO THE BUS BARS. PROVIDE TYPEWRITTEN INDEX OF ALL CONNECTED LOADS FOR EACH PANELS, INCLUDING EXISTING PANELS.

15. COMMUNICATIONS:

PROVIDE APPROPRIATE OUTLET BOXES AND EMPTY CONDUITS C/W PULL WIRES FOR COMMUNICATION SYSTEMS, AS SHOWN ON THE DRAWINGS AND AS REQUIRED.

LIGHTING

PROVIDE AND INSTALL LIGHTING FIXTURES, COMPLETE WITH LAMPS, AS SHOWN IN THE LIGHTING SCHEDULE

EXIT SIGNS:

PROVIDE EXIT SIGNS AS SHOWN ON DRAWINGS WITH THE FOLLOWING FEATURES: TO CONSIST OF A GREEN PICTOGRAM AND WHITE GRAPHIC SYMBOL AS PER ISO-38641

CONSTRUCTED OF ONE PIECE EXTRUDED ALUMINUM HOUSING AND FACE PLATES. ILLUMINATED WITH WHITE LED LIGHT SOURCE LESS THAN

2.5W. UNIVERSAL TYPE FOR WALL, END TO WALL, OR CEILING MOUNTING, AS REQUIRED.

DIRECTIONAL ARROWS AS SHOWN. SUITABLE FOR 120V SUPPLY AND 12Vdc EMERGENCY OPERATION.)

EMERGENCY LIGHTING:

PROVIDE EMERGENCY LIGHTING BATTERY UNIT SUITABLE FOR 120V SUPPLY WITH 12Vdc OUTPUT, COMPLETE WITH TWO INTEGRAL HEADS. SEALED, LONG LIFE LEAD BATTERY MAINTENANCE FREE, WITH 10-YEARS PRO-RATA WARRANTY. INTEGRAL AND REMOTE HEADS TO USE "LED" SEALED BEAM LAMP, 9W, 12Vdc. FULLY ADJUSTABLE MOUNTING SWIVEL. COMBINATION TYPE WITH INTEGRAL STANDBY BATTERY

20. RECORD DRAWINGS:

PACK.

AFTER COMPLETION OF WORK PROVIDE A SET OF MARKED UP AS-BUILT PRINTS FOR RECORD PURPOSES.

ELECTRICAL SAFETY:

TAKE OUT AND PAY FOR ELECTRICAL SAFETY AUTHORITY PERMIT. AT COMPLETION OF JOB, PROVIDE FINAL ELECTRICAL SAFETY AUTHORITY INSPECTION CERTIFICATE BEFORE APPLYING FOR FINAL PROGRESS PAYMENT.

HYDRO OTTAWA CHARGES:

HYDRO-OTTAWA SERVICE CHARGES WILL BE PAID DIRECTLY BY THE OWNER.

23. FIRE PROTECTION:

WHERE CABLES OR CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALLS. PACK SPACE BETWEEN WIRING AND SLEEVE FULL OF FIREPROOF MATERIAL, AND SEAL WITH COMPOUND CONFORMING TO "CGB 19-GP-9MAT-AMDT-OCT-80"

24. DEMOLITION:

ISOLATE FROM POWER SUPPLY AND MAKE SAFE ALL EXISTING ELECTRIC WORK TO BE REMOVED. DISPOSE OF DEMOLISHED MATERIALS UNLESS NOTED OTHERWISE. REMOVE ALL ABANDONED CONDUIT AND WIRING. EXISTING DEVICES SHOWN ON PLANS ARE APPROXIMATE LOCATION. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING DEVICES TO BE USED IN CONJUNCTION WITH NEW RENOVATIONS.

25. SEISMIC RESTRAINTS:

RETAIN A SEISMIC RESTRAINT SPECIALIST TO PERFORM CALCULATIONS AND TO SPECIFY A SEISMIC RESTRAINT SYSTEM AS REQUIRED FOR ANY ELECTRICAL EQUIPMENT, INCLUDING GENERATOR, SWITCHBOARD, DRY TYPE TRANSFORMERS, PANELS, CONDUITS, CABLE TRAY, LIGHT FIXTURES, ETC. THE SEISMIC RESTRAINT SPECIALIST SHALL BE AN INDEPENDENT STRUCTURAL ENGINEER, REGISTERED IN THE PROVINCE OF ONTARIO AND SPECIALIZING IN THIS TYPE OF WORK, AND TO BE ACCEPTABLE TO CONSULTANT. SUPPLY AND INSTALL THE SEISMIC RESTRAINT SYSTEM TO THE SATISFACTION OF THE SEISMIC RESTRAINT SPECIALIST. UPON COMPLETION OF THE PROJECT, PROVIDE A SEALED AND SIGNED STATEMENT FROM THE SEISMIC RESTRAINT SPECIALIST, CERTIFYING THAT ALL COMPONENTS AND PROVISIONS OF THE SEISMIC RESTRAINTS SYSTEM, AS APPLIED TO THE ELECTRICAL EQUIPMENT HAVE BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE ONTARIO BUILDING

SHOP DRAWINGS PROVIDE [PDF] COPIES OF SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT: "C.O." CARBON MONOXIDE SYSTEM,

DISCONNECT SWITCHES, ELECTRIC HEATERS - EMERGENCY BATTERY UNIT AND

REMOTE HEADS,

LIGHTING CONTACTORS, LIGHTING FIXTURES AND EXIT LIGHTS,

LIGHTING OCCUPANCY SENSOR AND/OR SWITCHES, PANELBOARDS, PHOTOCELL,

WEATHERPROOF RECEPTACLE "WHILE-IN-USE" & "EXTRA-DUTY" COVER PLATE.

LEGEND

FLUORESCENT OR LED LIGHT FIXTURE CEILING MOUNTED FLUORESCENT OR LED LIGHT FIXTURE LIGHT FIXTURE CEILING AND WALL MOUNTED LIGHT FIXTURE POLE MOUNTED PICTOGRAM - RUNNING MAN UNIVERSAL MOUNT, COMBINATION EXIT EXIT SIGN/ BATTERY PACK C/W LED 2-HEADS/ EMERGENCY LIGHTING BATTERY UNIT WITH TWO INTEGRAL "LED" HEADS

DE

REMOTE EMERGENCY LED HEADS MTD: WALL OR CEILING PICTOGRAM EXIT SIGN CEILING AND WALL MOUNTED DIRECTIONAL ARROWS AS SHOWN DF - DOUBLE FACE SINGLE POLE TOGGLE SWITCH (MTD 1100mm AFF) DOUBLE POLE TOGGLE SWITCH

(MTD 1100mm AFF)

(MTD 1100mm AFF)

(MTD 1100mm AFF)

(MTD 1100mm AFF)

347V TOGGLE SWITCH

(MTD 1100mm AFF)

(MTD 1100mm AFF)

SPEED CONTROL SWITCH

WALL MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED OCCUPANCY SENSOR

DUPLEX RECEPTACLE 120V, 15A

DUPLEX RECEPTACLE 120V, 15A

DUPLEX RECEPTACLE 120V, 15A

SINGLE RECEPTACLE 120V, 15A

SPECIAL PURPOSE RECEPTACLE,

DUPLEX RECEPTACLE 120V, 20A

5-20R (T-SLOT) CSA RECEPTACLE

DIRECT CONNECTION TO EQUIPMENT

WIRING - 3 #12 CONDUCTOR OR AS INDICATED. UNMARKED RUNS - 2 #12

WIRING IN FLOOR OR UNDERGROUND

WIRING IN/ON WALL OR CEILING

WIRING UP

WIRING DOWN

CONTROL WIRING

PANELBOARD

MOTORIZED DAMPER

CONTACTOR

TIME SWITCH

PHOTOCELL

120V THERMOSTAT

(MTD. 1100mm AFF)

ELECTRIC BASEBOARD HEATER

ELECTRIC BASEBOARD HEATER C/W BUILT-IN THERMOSTAT

ELECTRIC FORCED FLOW HEATER

COMBINATION DATA/TELEPHONE OUTLET

ELECTRIC UNIT HEATER

HEATER TYPE 'A'

TELEPHONE OUTLET

TELEVISION OUTLET

DATA LINE OUTLET

CHIME

PILOT LIGHT

MANUAL MOTOR STARTER

MAGNETIC MOTOR STARTER

MD

 $\vec{\Delta}$

Т

HH

 $\begin{pmatrix} A \\ 2.0 \end{pmatrix}$

FLEXIBLE CONNECTION

OUTLET BOX 4" x 4" x 2 1/8"

JUNCTION BOX SIZE AS REQUIRED

DISCONNECT SWITCH, FUSED IF NOTED

SINGLE PHASE MOTOR CONNECTION

THREE PHASE MOTOR CONNECTION

COMBINATION MAGNETIC MOTOR STARTER

(100 x 100 x 50mm) OR AS REQUIRED

(QUAD) (2) DUPLEX RECEPTACLES 120V, 15A

AMPS AND VOLTS AS NOTES

FLOOR MOUNTED DUPLEX RECEPTACLE

DUPLEX RECEPTACLE - UPPER HALF

(MTD 1100mm AFF)

(MTD 1100mm AFF)

N SEPARATE CIRCUIT

SPLIT WIRED (2 CIRCUITS)

DIMMER SWITCH

THREE WAY TOGGLE SWITCH

FOUR WAY TOGGLE SWITCH

GANGED SWITCHED UNDER ONE COVER

DRYER AMP SENSOR

MAG-LOCK CAR READER MAG-LOCK

FIRE ALARM MANUAL PULL STATION

FIRE ALARM HORN (MTD 2100mm AFF)

COMBINATION FIRE ALARM STROBE LIGHT & HORN

120V COMBINATION STROBE/ SMOKE ALARM C/W

120V SELF CONTAINED CARBON MONOXIDE "CO"

FIRE ALARM END-OF-LINE RESISTOR

FIRE ALARM MAGNETIC DOOR HOLDER

FIREMAN'S VOICE COMMUNICATION

FIRE ALARM - VOICE COMMUNICATION

SPEAKER - CEILING AND WALL MOUNTED

END-OFF-LINE RESISTER .

'-DAY BATTERY FOR SMOKE AND INTEGRAL

CEILING MOUNTED FIRE ALARM STROBE LIGHT

(MTD 1200mm AFF)

(MTD 2100mm AFF)

DUCT MOUNTED

SILENCING DEVICE.

FLOW SWITCH

PRESSURE SWITCH

TAMPER SWITCH

FIRE ALARM SMOKE DETECTOR

FIRE ALARM SMOKE DETECTOR

FIRE ALARM HEAT DETECTOR

AFCI ARC FAULT CCT. INTERRUPTER (FOR APT. UNITS ONLY) AMP DRYER AMP SENSOR BEF SUITE - BATHROOM EXHAUST FAN

COMM COMMUNICATION BOX CEILING MOUNTED AND/OR MOUNTED HIGH ON WALL (MEANS OF DISCONNECT) IN PUBLIC AREAS.

FM FLOOR MOUNTED GFI GROUND FAULT CCT. INTERRUPTER

MW MICROWAVE UNSWITCHED LIGHT FIXTURES (24hr)

OC OVER COUNTER PNL ELECTRICAL PANEL OR LOAD CENTRE

R RANGE UC UNDER COUNTER

UCL UNDER (KITCHEN) CUPBOARD LIGHTING UCL UNDER COUNTER LIGHTING

WP WEATHERPROOF

WP FOR RECEPTACLE: WEATHERPROOF COVER PLATE TO BE "WHILE-IN-USE" & "EXTRA-DUTY"

120V EMERGENCY LIGHTING & EXIT

SYSTEM LAMPS VOLT DESCRIPTION

SYSTEM	LAMPS	VOLI	DESCRIPTION
PICTOGRAM			PICTOGRAM — RUNNING MAN
\bigcirc		120V	UNIVERSAL MOUNT EXIT LIGHT
\otimes	LED	12V	EXIT LIGHT CEILING & WALL MOUNTED DIRECTION ARROWS
$\langle \rangle$			AS SHOWN DF — DOUBLE FACE
			Dr - DOOBLE FACE
	9W LED	12Vdc	REMOTE EMERGENCY LED HEADS
			MTD: WALL OR CEILING
	9W	120V	EMERGENCY LIGHTING BATTERY UNIT WITH TWO INTEGRAL LED HEADS
	LED	12Vdc	SURFACE MOUNTED:
			PROVIDE 1/2hr RATING
			(ADD 50W EXTRA)
PICTOGRAM			PICTOGRAM — RUNNING MAN
∞	9W	120V	UNIVERSAL MOUNT,
	LED	12Vdc	COMBINATION EXIT EXIT SIGN/ BATTERY PACK C/W LED 2-HEADS/
			TO SATISFY THE REQUIREMENTS OF THE ONTARIO BUILDING CODE
			ALL COMBO UNITS TO HAVE 1/2hr RATING.

PROVIDE #10 AWG MINIMUM FOR ALL 12Vdc WIRING

GENERAL NOTES:

1. ALL EMPTY CONDUIT TO BE C/W PULL ROPE. EXACT LOCATION OF EQUIPMENT SUBJECTED TO

COORDINATION WITH MECHANICAL. ALL NEW AND/OR RELOCATED LIGHT SWITCHES TO BE HEIGHT TAKEN 1100mm AFF. - 1100mm MOUNTED FROM TOP OF FINISHED FLOOR LEVEL "AFF" TO CENTER OF JUNCTION BOX.

ALL NEW AND/OR RELOCATED "WALL MOUNTED" F/A HORS & F/A STROBES TO BE HEIGHT TAKEN 2100mm AFF. - 2100mm MOUNTED FROM TOP OF FINISHED FLOOR LEVEL "AFF" TO CENTER OF JUNCTION BOX.

ALL NEW AND/OR RELOCATED F/A PULL STATIONS TO BE HEIGHT TAKEN 1200mm AFF. -1200mm MOUNTED FROM TOP OF FINISHED FLOOR LEVEL "AFF" TO CENTER OF JUNCTION

6. HANDICAP PUSH DOOR BUTTONS REFER TO ARCHITECTURAL FLOOR PLANS FOR FINAL LOCATION TO EXACT HORIZONTAL PLACEMENT OF HANDICAP DOOR OPERATOR PUSH BUTTONS ALONG WALL - IN CONJUNCTION WITH LOCATIONS OF HC PUSH BUTTONS SHOWN ON ELECTRICAL

LOCATION OF OUTLETS DO NOT INSTALL OUTLETS BACK-TO-BACK HORIZONTAL 150mm IN WALL; ALLOW MINIMUM CLEARANCE BETWEEN BOXES.

8. IN ADDITION TO GENERAL NOTE #7 AND IN KEEPING THE "ELECTRICAL CODE RECEPTACLE SPACING REQUIREMENTS", OUTLETS INSTALLED ON SHARED DEMISING WALLS BETWEEN APARTMENT SUITES ARE NOT TO SHARE THE SAME STUD

ALL DUPLEX RECEPTACLES MUST COMPLY WITH THE "TAMPERPROOF" REQUIREMENTS OF THE

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THE MORE STRINGENT OF THE TWO SHALL APPLY.

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LIGHT FIXTURE SCHEDULE - INTERIOR

MANUFACTURER: JUNO LIGHTING

MANUFACTURER: JUNO LIGHTING

MANUFACTURER: INDY

MODEL: 4RLD G3 09LM 35K 90CRI 120 FRPC WWH M6

MODEL: 4RLD G3 09LM 30K 90CRI 120 FRPC WWH M6

4" RECESSED RETROFIT TRIM MODULE WHITE BAFFLE

4" RECESSED RETROFIT TRIM MODULE WHITE BAFFLE

MODEL: L4 40LM 35K 120 G4 80CRI ZT HN CSS

INDY 4" DIA. 1-LED 4000LM, 35K 80CRI, GEN4

MODEL: NF1xxBA35[F1/F2/E1/E2/E3/E4]MO4

MANUFACTURER: FLUXWERX ILLUMINATION INC

MANUFACTURER: GOTHAM ARCHITECTURAL LIGHTING

EVO 6IN SHOWER, 3000K, 1000LM, FLUSH SOLITE, 80CRI

BLWP 4FT 10000 NOMINAL LUMENS, CURVED LINEAR LENS

BLWP 4FT 10000 NOMINAL LUMENS, CURVED LINEAR LENS

MODEL: EVO6SH 30/10 DFFAMF SOL

MODEL: **3541+74541-35_REG-LED**

MODEL: **3541+74541-47-LED_HO**

MODEL: BLWP4 100L ADP LP835

MODEL: BLWP8 100L ADP LP835

MANUFACTURER: LITHONIA LIGHTING

MODEL: CPX 2X4 4000LM 35K XX

MANUFACTURER: LITHONIA LIGHTING

MODEL: CPX 2X2 3200LM 35K XX

MANUFACTURER: LITHONIA LIGHTING

MANUFACTURER: PHILIPS - LIGHTOLIER

MODEL: CP6RB10810W

CPX FLAT PANEL 2X4, 4000 LUMENS, 35K CCT

CPX FLAT PANEL 2X2, 3200 LUMENS, 35K CCT

MANUFACTURER: LITHONIA LIGHTING

MODEL: **3531-23_HO-LED**

MODEL: **4257_ANTE**

3500K CCT, 80CRI

3500K CCT

SYM LAMPS VOLT SPECIFICATIONS:

LED | 120V |

LED | 120V |

LED | 120V |

Δク| LED |120V|

1A4 LED 120V

| R1 | LED | 120V |

C2 LED 120V

|C4 | LED | 120V |

|D2| LED |120V |

F. LED 120V

LED | 120V |

LED | 120V |

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8 RE-ISSUED FOR CONSTRUCTION 29 JAN 2020 ISSUED FOR CONSTRUCTION 24 JAN 2020 6 ISSUED FOR CCNE-03 15 JAN 2020 5 ISSUED FOR CCNE-01 09 JAN 2020 4 ISSUED FOR ADD-E02 16 DEC 2019 ISSUED FOR ADD-E01 13 DEC 201 29 NOV 2019 ISSUED FOR PRICING ISSUED FOR PERMIT 15 NOV 2019 DATE NO. REVISION

> 2295 ST. LAURENT FIT UP OTTAWA, ONTARIO

2283 ST. LAURENT BLVD., UNIT 203, OTTAWA, ONT., K1G 5A2 TEL. (613) 567-1487 FAX. (613) 567-1493 E-Mail: mail@quadrantengineering.ca

SCALE NTS DRAWN YD DESIGNED YD CHECKED LVDL PROJECT 19-Q025 DRAWING NUMBER E - 400

DETAILS, LEGEND, AND NOTES

5

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CONSULTANTS' DESIGN DOCUMENTS PRIOR TO STARTING

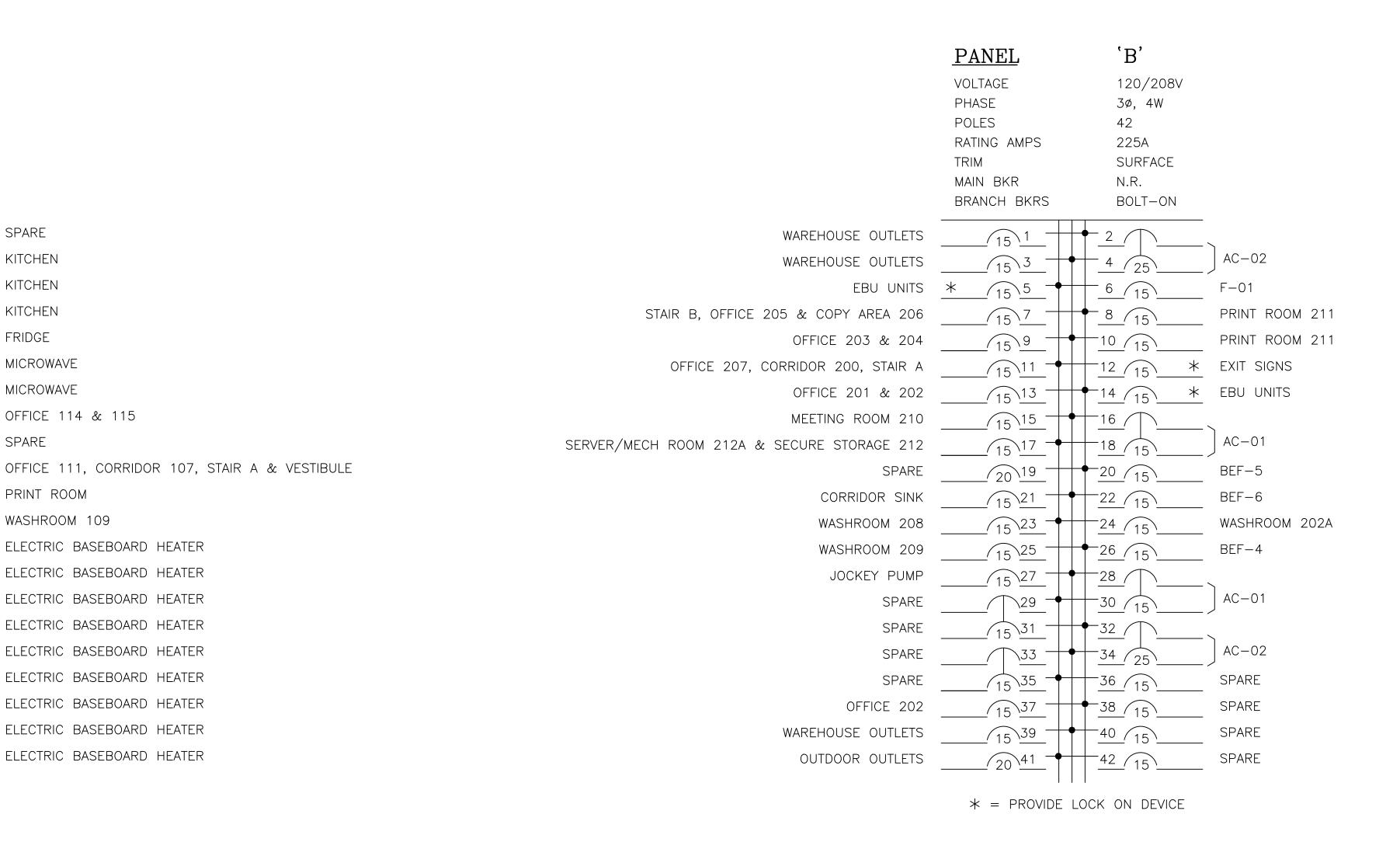
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EXISTING PANELS TO BE REUSED AND MODIFIED TO SUIT NEW LAYOUT. EXISTING BREAKERS ARE TO BE USED WHERE POSSIBLE, WITH NEW BREAKERS PROVIDED AS NEEDED.



347/600V

3ø, 4W

100A

N.R.

SURFACE

BOLT-ON

<u>PANEL</u> VOLTAGE 120/208V **PANEL** PHASE 3ø, 4W VOLTAGE POLES PHASE RATING AMPS POLES SURFACE RATING AMPS MAIN BKR MAIN BKR BRANCH BKRS WASHROOM 109, CORRIDOR 107 & PRINT ROOM 108 LIGHTS

OFFICE 114, 115, CORRIDOR 113, & VESTIBULE 112 LIGHTS

SPARE LUNCH ROOM 116 & KITCHEN LIGHTS ______15 13 + 14 100_ ELECTRIC CONVECTOR HEATER _______15 11 + 12 15 SPARE WASHROOM 118 & 117 LIGHTS _______15 15 16 15 WAREHOUSE LIGHTS ELECTRIC CONVECTOR HEATER _______15 13 14 15 SPARE SPARE ______15 15 16 15 SPARE WASHROOM 208, 209 LIGHTS _______15 19 + 20 15 _____ WAREHOUSE LIGHTS OUTSIDE LIGHTS 20 20 SPARE OFFICE 202 & WASHROOM LIGHTS ______15 23 + 24 15 ____ WAREHOUSE LIGHTS SPARE 20 21 22 20 SPARE SPACE SPACE

8	RE-ISSUED FOR CONSTRUCTION	29 JAN 2020
7	ISSUED FOR CONSTRUCTION	24 JAN 2020
6	ISSUED FOR CCNE-03	15 JAN 2020
5	ISSUED FOR CCNE-01	09 JAN 2020
4	ISSUED FOR ADD-E02	16 DEC 2019
3	ISSUED FOR ADD-E01	13 DEC 2019
2	ISSUED FOR PRICING	29 NOV 2019
1	ISSUED FOR PERMIT	15 NOV 2019
NO.	REVISION	DATE
PROJEC	2295 ST. LAURE	NT.

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	CURRENT DATE Wed, 29 Jan 2020, 1					
	SCALE	NTS				
	DRAWN	YD				
	DESIGNED	YD				
	CHECKED	LVDL				
	PROJECT	19-Q025				
	DRAWING N	NUMBER				
	E	-300				

PANEL DETAILS

PANEL

VOLTAGE

PHASE

POLES

TRIM

LUNCHROOM & KITCHEN

LUNCHROOM & KITCHEN

OPEN OFFICE 103 AND STAIR C

ELECTRIC BASEBOARD HEATER

ELECTRIC BASEBOARD HEATER

SPARE

WASHROOM 118

WASHROOM 117

OFFICE 104 & 105

ELECTRICAL ROOM

DISHWASHER

BEF-01

BEF-02

RATING AMPS

BRANCH BKRS

MAIN BKR

120/208V

3ø, 4W

SURFACE

BOLT-ON

SPARE

KITCHEN

KITCHEN

KITCHEN

FRIDGE

SPARE

MICROWAVE

MICROWAVE

PRINT ROOM

WASHROOM 109

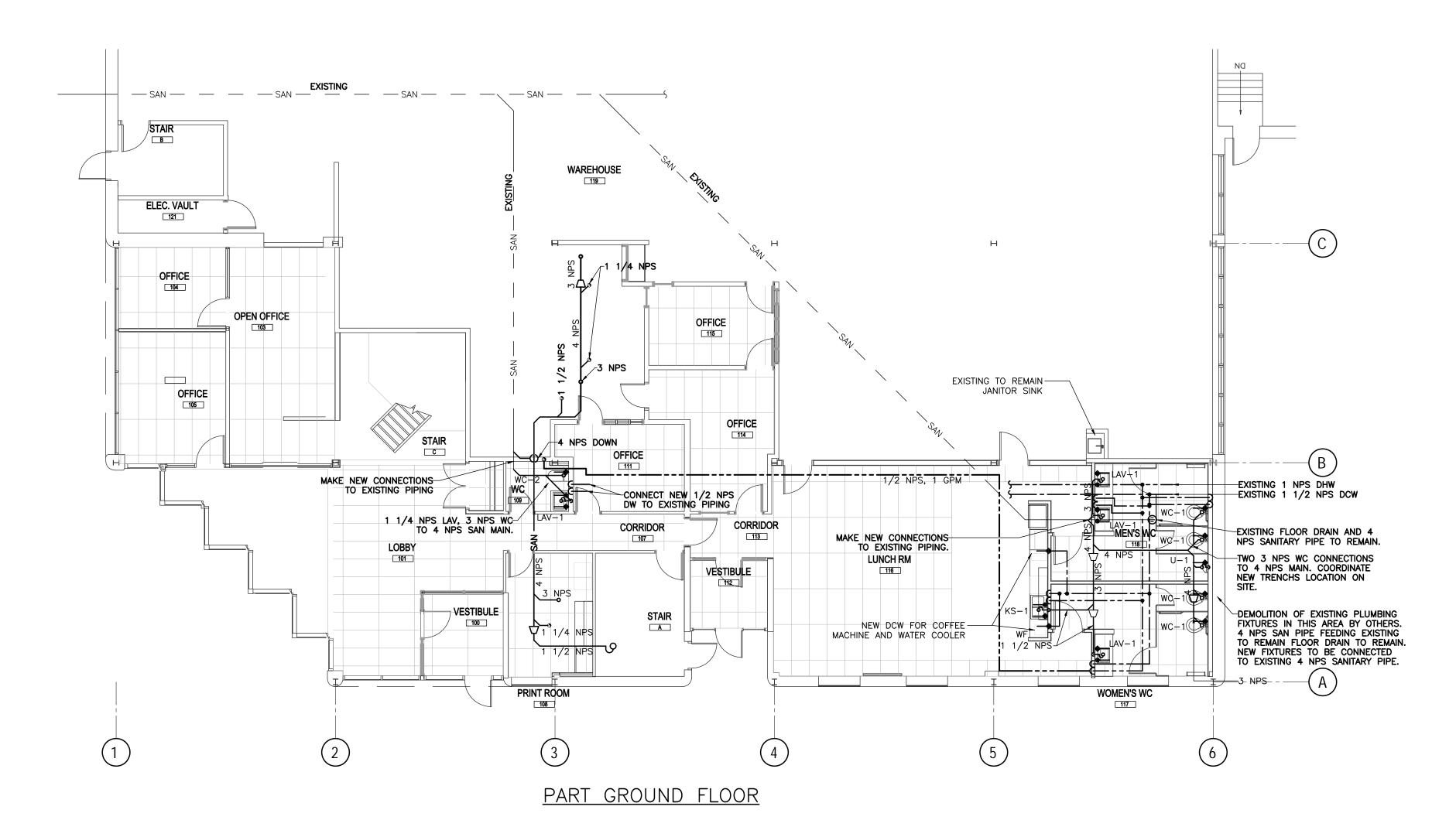
ELECTRIC BASEBOARD HEATER

OFFICE 114 & 115

42

N.R.

SECOND FLOOR



<u>NOTES</u>

- 1. THE PROJECT CONSISTS OF A RENOVATION OF AN EXISTING OFFICE BUILDING. WAREHOUSE TO REMAIN AS IT IS.
- 2. ALL EXISTING AND NEW SAN PIPING UNDERGROUND TO BE CCTV CHECKED PRIOR TO OCCUPANCY.
- 3. TYPICAL: CONNECT NEW SANITARY PIPING TO EXISTING BUILDING PIPING.
- 4. TYPICAL: CONNECT NEW WATER PIPING TO EXISTING BUILDING WATER
- 5. TYPICAL: CONNECT NEW FIXTURES TO EXISTING BUILDING VENT PIPING. 6. LINE BREAKS ARE FOR CLARITY AND DO NOT NECESSARILY SHOW
- ORDER OF INSTALLATION.
- 7. NOT ALL REQUIRED CLEANOUTS ARE SHOWN. PROVIDE ALL CODE REQUIRED CLEANOUTS.
- 8. NUMBER, LOCATIONS OF FIXTURES: ARCHITECTURAL DRAWINGS TO
- 9. IT IS THE INTENT OF THESE DRAWINGS THAT THE MECHANICAL CONTRACTOR PROVIDE A COMPLETE EQUIPMENT AND FITTINGS, WHETHER OR NOT ALL SUCH ITEMS ARE EXPLICITLY SHOWN ON THESE DRAWINGS. IN ALL CASES OF UNCERTAINTY THE ENGINEER SHALL BE REQUESTED IN WRITING TO PROVIDE CLARIFICATION IN WRITING.
- 10. CONTRACTOR TO VISIT SITE BEFORE TENDER AND ASCERTAIN ALL SITE CONDITIONS BEFORE BIDDING. REPORT ALL DISCREPANCIES TO ENGINEER
- 11. MECHANICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL PLANS.
- 12. CONTRACTOR IS TO CO-ORDINATE LOCATIONS OF DUCTWORK, PIPING AND FIXTURES WITH OTHER TRADES.
- 13. SEAL ALL PENETRATIONS OF WALLS BY PIPING, CONTROL WIRING AND
- 14. ESCUTCHEON COVERS TO BE PROVIDED FOR ALL PIPING PASSING THROUGH FINISHED WALLS.
- 15. ALL PIPING INSTALLED ALONG OUTSIDE WALLS IS TO BE ROUTED ON
- 16. PROVIDE ISOLATION VALVES ON ALL WATER SUPPLY CONNECTIONS TO PLUMBING FIXTURES.
- 17. ALL VALVES AND STRAINERS TO BE LINE SIZE.

THE WARM SIDE OF THE BUILDING INSULATION.

- 18. ALL EXPOSED PLUMBING IS TO BE FINISHED AND CHROMED PLATED.
- 19. PROVIDE AS-BUILT PLANS. CONTRACTORS ARE RESPONSIBLE FOR INDICATING THE EXACT LOCATIONS OF UNDERGROUND PIPING.
- 20. PIPE SIZES ARE IN NPS.
- 21. MECHANICAL CONTRACTOR TO PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND EQUIPMENT. GENERAL CONTRACTOR TO INSTALL ACCESS DOORS.
- 22. WC-1: AMERICAN STANDARD, MADERA FLOWISE, FLOOR MOUNT ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA 4.2 LPF, 10" ROUGHING-IN, 16-1/2" RIM HEIGHT, 1-1/2" TOP SPUD, OPEN FRONT SEAT WITH COVER. FLUSH VALVE: MODEL 6047.121 ADA COMPLIANT NON-HOLD OPEN HANDLE, CHLORAMINE-RESISTANT EPDM SEALS, ADJUSTABLE TAILPIECE.
- 23. WC-2: AMERICAN STANDARD, TOFINO CONCEALED TRAPWAY DUAL FLUSH ELONGATED ONE PIECE TOILET WITH SEAT 2996C.203 ELONGATED BOWL, ONE PIECE TOILET WITH SLOW CLOSE SEAT WITH COVER, SIPHON JET BOWL.4.1LPF, 15-1/4" (387MM) RIM HEIGHT, CHROME-PLATED TOP MOUNTED PUSH BUTTON ACTUATOR, SUPPLY IWTH STOP.
- 24. U-1: AMERICAN STANDARD, PINTBROOK URINAL, VITREOUS CHINA, 1.9 LPF, 3/4" INLET TOP SPUD, OUTLET CONNECTION THREADED 2" NPT, WALL HANGERS.
- 25. LAV-1: AMERICAN STANDARD, STUDIO MODEL 0643-001, DROP IN UNIVERSAL ACCESS LAV, DELTA TRINSIC SINGLE LEVER 5.7 L/M FAUCET MODEL 559, TRAP, DRAIN, PLUG. 1/2 NPS DW, 1 1/4 NPS SAN, VENT.
- 26. LAV-2: AMERICAN STANDARD, MODEL LUCERNE, WALL-HUNG LAVATORY, WALL HANGERS, VITREOUS CHINA, DELTA TRINSIC SINGLE LEVER 5.7 L/M FAUCET MODEL 559, TRAP, DRAIN, PLUG. 1/2 NPS DW, 1 1/4 NPS SAN, VENT.
- 27. KS-1: (IFC UPDATE, DROP-IN) UNDERMOUNT KITCHEN SINK, KINDRED STAINLESS STEEL MODEL 123.0078.543, DOUBLE BOWL, DELTA TRINSIC MODEL 4159-DST SINGLE LEVER 5.7 L/M FAUCET, TRAP, DRAIN, CRUMB CUP STRAINER, SOUND DEADENING PAD. 1/2 NPS DW, 1 1/2 NPS
- 28. KS-2: DROP IN KITCHEN SINK, KINDRED STAINLESS STEEL MODEL 101.0191.918, SINGLE BOWL, DELTA TRINSIC MODEL 4159-DST SINGLE LEVER 5.7 L/M FAUCET, TRAP, DRAIN, CRUMB CUP STRAINER, SOUND DEADENING PAD. 1/2 NPS DW, 1 1/2 NPS SAN, VENT.
- 29. P-01: DHW RECIRC. PUMP. ALL BRONZE, AQUASTAT, 120V/1PH 1/4HP. CONNECT TO EXISTING DHW PIPING NEAR EXISTING HOT WATER TANK.
- 30. WF: (IFC UPDATE ROUGH-IN ONLY) BOTTLE WATER COOLER, CULLIGAN, EXECUTIVE SERIES COUNTER TOP, 1/4 NPS DCW INLET.
- 31. SH-1: SHOWER BUILT UP BY OTHERS, STAINLESS STEEL CURTAIN ROD BY OTHERS, ULTRA THIN LED DOME LIGHT, CHROME DRAINS, PAN LINER, TRAP. SHOWER TRIM TO BE MANUFACTURED BY DELTA, MODEL TRINSIC #T14259 PRESSURE BALANCED SHOWER VALVE 6.6 LPM.

LEGEND				
(1)	PROGRAMMABLE THERMOSTAT			
月月↓	BRANCH DUCT CONNECTION WITH BALANCING DAMPER			
	FLEXIBLE CONNECTION			
	SQUARE TO ROUND TRANSITION			
SAN	SANITARY DRAIN ABOVE GRADE/FLOOR			
—— SAN ———	SANITARY DRAIN BURIED			
	DOMESTIC COLD WATER			
	DOMESTIC HOT WATER			
→ –	PIPE DROPS, PIPE RISES			
	DIELECTRIC UNION			
₽ ₽ FD	FLOOR DRAIN WITH TRAP			
⊚ FFD	FUNNEL FLOOR DRAIN			
O H.D.	HUB DRAIN			
$\overline{\ }$	ISOLATING VALVE			
\dashv	CLEANOUT ABOVE FLOOR			
— Þ	CLEANOUT IN FLOOR			
\	DCW CONNECTION TO FAUCET			
.	DHW CONNECTION TO FAUCET			
FE	FIRE EXTINGUISHER ON WALL BRACKET			
•	NEW SEMI-RECESSED PENDENT SPRINKLER HEAD			
©	NEW UPRIGHT SPRINKLER HEAD			

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DRA	WING LIST
DRAWING NUMBER	
M-01	PLUMBING, LEGEND AND NOTES
M-02	HVAC AND SPRINKLERS
M-03	SPECIFICATION

4	ISSUED FOR CONSTRUCTION	28 JAN 2020
3	ISSUED FOR ADD-M01	13 DEC 2019
2	ISSUED FOR PRICING	29 NOV 2019
1	ISSUED FOR PERMIT	15 NOV 2019
NO.	REVISION	DATE
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M-	01
DRAWING N	NUMBER
PROJECT	19-Q025
CHECKED	CWC
DESIGNED	CWC
DRAWN	CWC
SCALE	1:100
CURRENT 1	DATE 「ue, 28 Jan 2020, 15 0

PLUMBING, LEGEND AND NOTES

8

OTES ON M_01

WITH THE SPECIFICATION. WHERE CONFLICT ARISES THE MORE STRINGENT OF THE TWO SHALL APPLY.

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CLARIFICATION REGARDING THE INTENT OF THE CONTRACT

QE REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR IS FOR DESIGN CONFORMANCE ONLY.

DOCUMENTS.

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CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS,
ON SITE, REQUIRED TO PERFORM THE WORK AND REPORT
ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO
THE DESIGN TEAM BEFORE COMMENCING WORK.

<u>NOTES</u>

1. SEE NOTES ON M-01.

2. EXISTING ROOFTOP PACKAGED UNITS TO BE REPLACED UNDER SEPARATE CONTRACT. UNIT OUTSIDE AIR TO BE SET AT 15%. NEW THERMOSTATS TO BE 7-DAYS PROGRAMMABLE.

3. GROUND FLOOR IS SUPPLIED BY A NEW 10 TON AC UNIT AND EXISTING DUCTWORK.

4. 2ND FLOOR IS SUPPLIED BY A NEW 7.5 TON AND NEW 5 TON UNIT AND EXISTING DUCTWORK.

5. SEE ELECTRICAL DRAWING E-200 FOR EXISTING AND NEW BASEBOARD ELECTRICAL HEATERS.

6. EXISTING DUCTWORK ABOVE THE CEILING TO REMAIN UNLESS NOTED.

7. PATCH AND MAKE GOOD ALL EXISTING DUCT INSULATION.

8. EXISTING DIFFUSERS TO BE REMOVED. NEW DIFFUSERS, 24x24 3 CONE STEEL WITH DAMPER, TO BE INSTALLED AND CONNECTED TO EXISTING DUCTWORK. NEW DIFFUSERS NOT ASSOCIATED WITH AN EXISTING DIFFUSER NOTED AS "NEW". NEW DIFFUSERS ASSOCIATED WITH AN EXISTING—REMOVED DIFFUSER NOTED AS NEW—R. NEW LINEAR DIFFUSER TO BE VERTICAL MOUNTED IN THE NEW BULKHEAD AT THE STAIRS, SDS WITH PLENUM OR SIMILAR APPROVED.

9. NEW AND NEW-R DIFFUSERS TO BE CONNECTED WITH NO MORE THAN 36" OF ALUMINUM FLEX DUCT.

10. FIRE PROTECTION WILL BE CARRIED OUT BY THE CLIENT.

11. EXISTING SPRINKLER SYSTEM IN THE OFFICE AREA TO BE REVISED TO SUIT THE NEW LAYOUT. MAINS AND MAIN BRANCHES TO BE LEFT AS—IS. PROVIDE NEW SPRINKLER HEADS IN NEW LOCATIONS. NEW UPRIGHT AND SEMI—RECESSED PENDENT HEADS TO BE USED. PROVIDE ANY NEW PIPE REQUIRED.

12. FIRE PROTECTION CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING ALL HEAD LOCATIONS AND MAIN BRANCH LINES. WORK SHALL NOT START UNTIL ENGINEER AND ARCHITECT REVIEW IS SATISFIED. CONTRACTOR SHALL PROVIDE TWO SEALED COPIES, OVER AND ABOVE THOSE REQUIRED FOR ENGINEER'S REVIEW, FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION AS A PART OF THE BUILDING PERMIT APPLICATION. FIRE PROTECTION SHOP DRAWINGS FOR ALL EQUIPMENT. INCUDE CONFIRMATION THAT THE DESIGN CONFORMS TO SEISMIC REQUIREMENTS OF NFPA, STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

13. FIRE PROTECTION SHOP DRAWINGS TO BE DONE BY A PROFESSIONAL ENGINEER PERMANENTLY LICENSED IN THE PROVINCE OF ONTARIO.

14. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR USE IN PREPARING THE TENDER BEFORE SUBMITTING THE TENDER. ALSO CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO CONFLICTS WITH OTHER TRADES OCCUR. SHOP DRAWINGS WILL BE REVIEWED BY THE ENGINEER AND THE ARCHITECT.

15. PROVIDE FIRE EXTINGUISHERS AS PER CODE AND APPROVAL OF LOCAL AUTHORITIES HAVING JURISDICTION.

16. AC-01: DUCTLESS SPLIT SYSTEM, 1 TON CAPACITY, WIRELESS THERMOSTAT, PIPE CONDENSATE TO ADJACENT DRAIN IN BATHROOM. CONDENSING UNIT TO BE INSTALLED IN WAREHOUSE ON WALL BRACKETS AND NEOPRENE ISOLATORS. REFRIGERANT PIPING TO BE RUN IN THE CEILING, COORDINATE WITH EXISTING TO REMAIN DUCTWORK AND SPRINKLER PIPING. 208-230V, 1PH, 9.1A FLA, 11.2A MCA, 15 MOP.

17. AC-02: NOT USED.

18. RETURN GRILLES: 24"X12" R/A EGGCRATE, STEEL 1/2"X1/2", WHITE.

19. TRANSFER DUCTS, 12"x6" OR AS INDICATED C/W 1" THICK ACOUSTIC INSULATION, SIGHT PROOF.

20. END OF RETURN DUCT WITH 24"X10" GRILLE FOR CEILING RETURN FROM ADJACENT SPACES

21. F-01: CABINET EXHAUST FAN, 300 CFM@0.4" E.S.P., 120V/1PH/1.5A.
8" DIAMETER RIGID DUCT TO SINGLE WALLBOX. INSULATE DUCT WITH 1'
THICK THERMAL INSULATION C/W VAPOUR BARRIER.

22. ELECTRICAL CONTRACTOR TO PROVIDE SHUT DOWN TIMERS FOR BEF IN ALL WASHROOMS.

23. DUCT DIMENSIONS ARE IN INCHES. DUCT DIMENSIONS ARE OUTSIDE DIMENSIONS.

24. CONTRACTOR IS TO PROVIDE RIGID METALLIC DUCTWORK AND/OR A MAXIMUM OF 6 FT. OF METALLIC FLEXIBLE DUCTWORK ON GRILL/DIFFUSER CONNECTIONS.

25. PROVIDE BALANCING DAMPER ON EACH DUCT TAKEOFF TO A SUPPLY DIFFUSER/GRILL.

26. PROVIDE BALANCING DAMPER ON EACH DUCT TAKEOFF TO AN EXHAUST GRILL IN WASHROOMS.

27. ALIGN ALL DIFFUSERS TO NEW CEILING LAYOUT.

28. WALL BOXES TO BE LEAK-PROOF, 26 GA. STEEL, ALUMINUM GRILLE, NEOPRENE BACKDRAFT DAMPER.

29. THIS LINEAR DIFFUSER NOT USED, DISTRIBUTE AIR TO OTHER DIFFUSERS IN THE AREA.

30. EXISTING HWT VENT TO BE BOXED IN BY OTHERS, ABOVE THE EXIT CORRIDOR CEILING.

31. EXISTING AC UNIT SUPPLY, NOT SHOWN, TO BE DISCONNECTED AND RAISED APPROXIMATELY 4" TO CLEAR THE NEW CEILING. BEST METHOD OF COMPLETING WORK TBD BY CONTRACTOR. CONTRACTOR SHALL

SUBMIT FABRICATION SHEETS FOR REVIEW PRIOR TO STARTING WORK.

32. REMOVE EXISTING RETURN AIR DUCT (NOT SHOWN) ABOVE CEILING IN LUNCH ROOM.

DELETED

AC_02

AC_02

AC_02

4	ISSUED FOR CONSTRUCTION	28 JAN 202
3	ISSUED FOR ADD-M01	13 DEC 20
2	ISSUED FOR PRICING	29 NOV 20
1	ISSUED FOR PERMIT	15 NOV 20
NO.	REVISION	DATE
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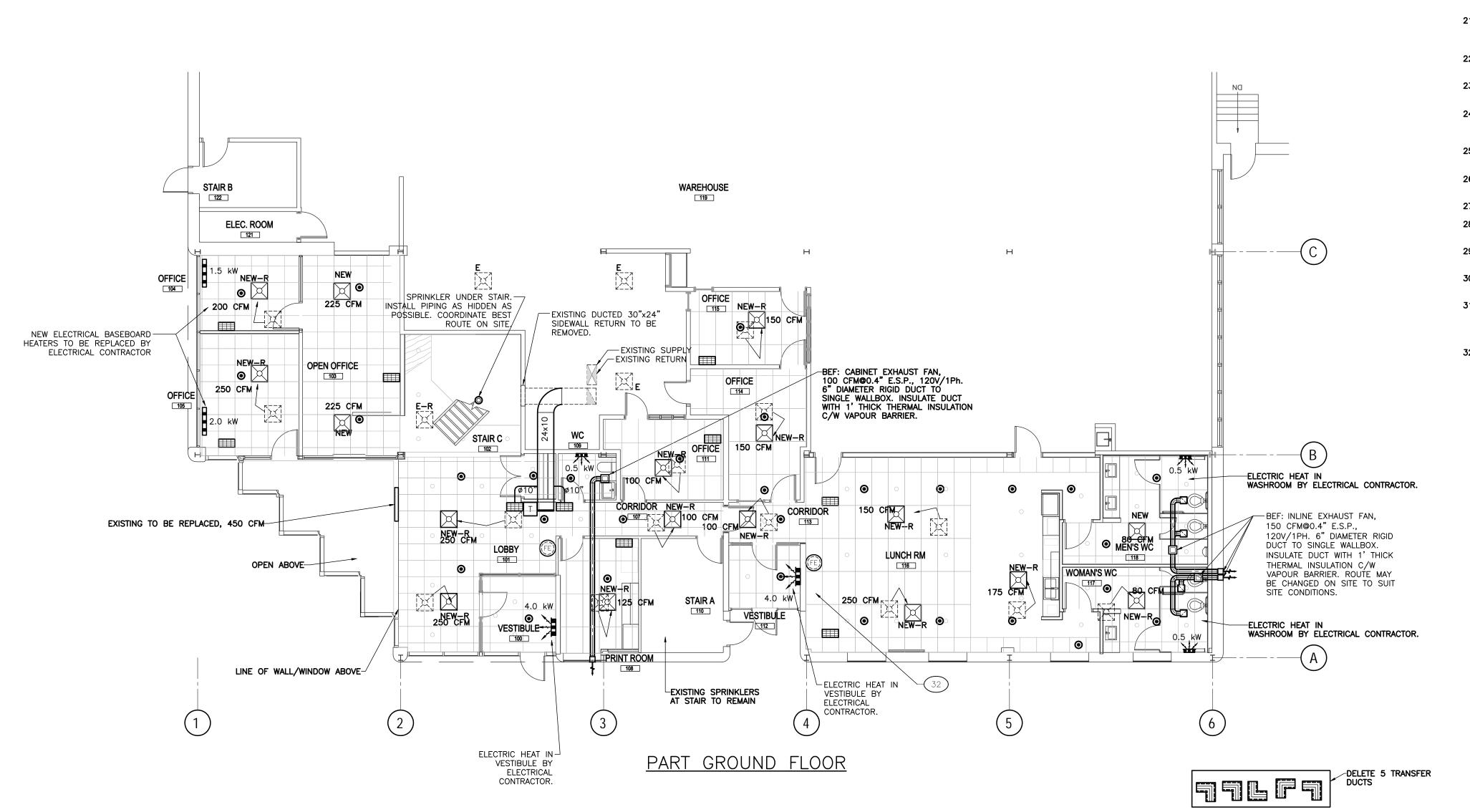
QUA RAN

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	CURRENT DATE Tue, 28 Jan 2020, 15			
SCALE 1:100				
DRAWN CWC				
DESIGNED CWC				
CHECKED CWC				
PROJECT 19-Q025				
DRAWING NUMBER				

M - 02

HVAC AND SPRINKLERS



BEF: CABINET EXHAUST FAN, ---

ELECTRIC HEAT IN WASHROOM-

BY ELECTRICAL CONTRACTOR.

NEW-R

NEW-R

200 CFM

3.0 kW

BEF: CABINET EXHAUST FAN,

150 CFM@0.4" E.S.P.,

SITE CONDITIONS.

120V/1PH. 6" DIAMETER RIGID DUCT TO SINGLE WALLBOX.

INSULATE DUCT WITH 1' THICK THERMAL INSULATION C/W

VAPOUR BARRIER. ROUTE MAY BE CHANGED ON SITE TO SUIT

OFFICE

201

202

NEW-R

- ELECTRIC HEAT IN WASHROOMS

SECURE

2 150 CFM

L'_EXISTING

STORAGE

212

-EXISTING DUCT BRANCH, CONNECT

-THIS AREA SERVED BY EXISTING DUCTWORK AND EXISTING AC UNIT. EXISTING CEILINGS WILL BE REMOVED, EXISTING RIGID

PROVIDE NEW SUPPLY AIR GRILLES AND TAKEOFFS. PROVIDE

PRINT ROOM

211

DUCTS TO REMAIN. REMOVE FLEX DUCT AND DIFFUSERS.

UPRIGHT SPRINKLER HEADS IN PLACE OF THE EXISTING

 \sim remove transitions $\ddot{\,\,}$ both sides.

PENDENT HEADS.

NEW DIFFUSERS AND DUCT TO

-INSTALL 8 NEW SIDEWALL SUPPLY DOUBLE DEFLECTION GRILLED, EQUAL

FLOW, ON EXISTING SUPPLY DUCT.

EXISTING DUCT.

BY ELECTRICAL CONTRACTOR

SERVER/

MECH RM

/l150 CFM

150 CFM

STAIR

-ELECTRIC HEAT IN WASHROOM BY ELECTRICAL CONTRACTOR.

PART SECOND FLOOR

Α

O 212A

-SEE NOTE 21

210

150 CFM@0.4" E.S.P., 120V/1PH.

INSULATION C/W VAPOUR BARRIER.

OFFICE

207

6" DIAMETER RIGID DUCT TO SINGLE WALLBOX.

COPY AREA

206

250 CFM

CORRIDOR

200

В

OFFICE

205

NEW ELECTRICAL BASEBOARD

ELECTRICAL CONTRACTOR

HEATERS TO BE REPLACED BY

1.5 kW

OFFICE

204

OFFICE

203

OPEN BELOW

OFFICE AREA SERVED BY EXISTING DUCTWORK,

EXISTING RTU AND

SEE NOTE 11

BACKUP SPLIT SYSTEM.

200 CFM

INSULATE DUCT WITH 1' THICK THERMAL

DO NOT OPERATE EXHAUST OF AIR CONDITIONING FAN DURING OPERATIONS SUCH AS SANDING. REPLACE ALL FILTERS AT COMPLETION OF PROJECT AND LEAVE ONE SET OF SPARE FILTERS FOR EACH PIECE OF EQUIPMENT SITE FOR USE BY CLIENT.

DO IDENTIFICATION WORK IN ACCORDANCE WITH CGSB 24-GP-3A EXCEPT WHERE SPECIFIED

INDICATE SIZE, EQUIPMENT MODEL, MANUFACTURER'S NAME, SERIAL NUMBER, VOLTAGE, CYCLE, PHASE AND POWER OF MOTORS.

PIPING: TO CGSB 24-GP-3A. IDENTIFY MEDIUM BY LETTERED LEGEND, CLASSIFICATION BY PRIMARY AND SECONDARY COLOURS, DIRECTION OF FLOW BY ARROWS.

.1 "CONCEALED" — HIDDEN FROM NORMAL SIGHT IN FURRED SPACES, SHAFTS, CEILING SPACES, WALLS AND PARTITIONS.

.2 "EXPOSED" — ALL MECHANICAL WORK NORMALLY VISIBLE, INCLUDING WORK IN EQUIPMENT ROOMS, TUNNELS, ETC...

.3 "PROVIDE" - (AND TENSES OF "PROVIDE") SUPPLY, INSTALL AND CONNECT COMPLETE.

.4 "INSTALL" - (AND TENSES OF "INSTALL") INSTALL AND CONNECT COMPLETE.

FOR THE PURPOSES OF THESE SPECIFICATIONS THE FOLLOWING DEFINITIONS SHALL APPLY:

PROVIDE ULC AND/OR CSA REGISTRATION PLATES, AS REQUIRED BY RESPECTIVE AGENCY.

MECHANICAL GENERAL CONDITIONS .5 "SUPPLY" - SUPPLY ONLY. .6 "APPROVED" — ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND/OR ACCEPTABLE TO THE ENGINEER. THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS AS INDICATED IN THE ARCHITECTURAL SPECIFICATION SHALL APPLY TO DIVISION 15. PROVIDE COMPLETE HEATING/COOLING VENTILATING SYSTEM, PLUMBING AND GAS ISTRIBUTION AS GENERALLY SHOWN ON DRAWINGS AND DESCRIBED HEREIN. CO-ORDINATE INSTALLATION WITH THE VARIOUS TRADES. FURNISH INSPECTION CERTIFICATES PRIOR TO FINAL PAYMENT TO SHOW THAT ALL INTENDED WORK CONFORMS WITH DRAWINGS AND SPECIFICATIONS AND WITH BY—LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. PROJECT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO THIS GENERAL SPECIFICATION IN CASES OF CONFLICT, AMBIGUITY OR DOUBT APPLY TO THE ENGINEER FOR A RULING II WRITING. 15A.27 SEISMIC RESTRAINT DRAWINGS IN PART ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL LAYOUT OF MECHANICAL SYSTEMS. DO NOT SCALE DRAWINGS. ALL JOBS MUST BE COMPLETE, PERFORMED AND FINISHED IN A WORKMANLIKE MANNER. WORK AND MATERIALS OF AN INCIDENTAL NATURE, NECESSARY BY IMPLICATION TO PRODUCE THE FINISHED JOB AS SPECIFIED, SHALL BE SUPPLIED EVEN WHEN NOT LISTED OR DESCRIBED IN DETAIL. NO DEVIATIONS FROM THE SPECIFICATIONS OR DRAWINGS WILL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. 15A.28 TSSA REVIEW FOR MECHANICAL SERVICES SHALL BE OBTAINED FROM THE EQUIPMENT SUPPLIERS IN ADVANCE OF THE BUILDING CONSTRUCTION AND SHALL FORM PART OF THE CONTRACT DRAWINGS. SUBMISSION OF TENDER IS DEEMED TO BE CONFIRMATION THAT THE CONTRACTOR HAS INSPECTED THE SITE AND EXAMINED ALL CONTRACT DOCUMENTS. NO EXTRAS WILL BE CONSIDERED FOR FAILURE TO COMPLY WITH THE ABOVE. WITHIN 10 DAYS OF AWARD OF CONTRACT SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS FOR ALL MECHANICAL SYSTEM COMPONENTS C/W DESCRIPTIVE DATA. REVIEW OF DRAWINGS INDICATES ONLY THAT THE QUALITY AND GENERAL DESIGN OF THE EQUIPMENT IS ACCEPTABLE. VERIFICATION OF DIMENSIONS ON THE LOCATION OF CONNECTIONS TO THE EQUIPMENT SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. DO NOT SUBSTITUTE ALTERNATIVES TO EQUIPMENT SPECIFIED UNLESS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL PROBLEMS ARISING FROM ANY SUCH SUBSTITUTED EQUIPMENT WILL BE CONSIDERED SOLELY THE RESPONSIBILITY OF THE CONTRACTOR MAKING THE SUBSTITUTION. PLUMBING SHOP DRAWINGS SHALL SHOW: OVERALL DIMENSIONS, ROUGHING—IN DIMENSIONS AND CLEARANCE DIMENSIONS. CERTIFIED PERFORMANCE DATA INDICATING OPERATING FLOWS, PRESSURES, MAXIMUM TEMPERATURE AND PRESSURES, ENTERING AND LEAVING CONDITIONS OF AIR AND FLUID, OPERATING WEIGHT, ELECTRICAL CHARACTERISICS AND BREAK HORSEPOWER REQUIREMENTS. GAUGE OF FABRICATED MATERIAL AND TYPE OF FINISH. 15B.2 REFERENCE STANDARDS SHOW ALL REVISIONS AND ALTERATIONS OF THE ENTIRE MECHANICAL CONTRACT ON ONE SET OF PRINTS AND SUBMIT TO ENGINEER PRIOR TO SUBSTANTIAL COMPLETION OF JOB.
AS BUILTS ARE TO BE KEPT ON SITE AND UPDATED DAILY. NO CHANGES TO THE ORIGINAL LAYOUT OR SPECIFICATION WILL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE CONSULTANT. AS BUILT DRAWINGS TO BE TRANSPOSED ONTO REPRODUCIBLE SEPIAS BY THE CONTRACTOR BEFORE FINAL INSPECTION FOR REVIEW BY THE CONSULTANT. GOOD DRAFTING PROCEDURES TO BE MAINTAINED. PIPES AND FITTINGS: CSA, ASTM, ANSI. VALVES: ANSI. FIXTURES: CSA 815.

.8 "IDENTIFIED" — CAPABLE OF BEING RECOGNIZED BY A PERSON OF NORMAL VISION WITHOUT CAUSING UNCERTAINTY ABOUT THE LOCATION OR OPERATING PROCESS OF THE IDENTIFIED ITEM. THE FABRICATION OF THE DUCTWORK WILL BE DETERMINED FROM FIELD MEASUREMENTS BY THIS CONTRACTOR. THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE DUCTWORK WITH ALL OTHER TRADES. THIS CONTRACTOR SHALL PROVIDE FABRICATION AND INTERFERENCE DRAWINGS TO DETERMINE ROUTING OF THE DUCTWORK AND SHALL PROVIDE ALL OFFSETS, ELBOWS AND TRANSITIONS AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. THIS CONTRACTOR TO RETAIN SEISMIC RESTRAINT SPECIALIST TO PERFORM CALCULATIONS AND SPECIFY SEISMIC RESTRAINT EQUIPMENT. ALL PIPING AND EQUIPMENT TO BE SEISMICALLY RESTRAINED AS REQUIRED. SHOP DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO EXPERIENCED IN SEISMIC DESIGN. THE CONTRACTOR SHALL PROVIDE DOCUMENTARY EVIDENCE THAT THE DESIGN CONFORMS TO SEISMIC REQUIREMENTS OF RELEVANT DOCUMENTARY EVIDENCE THAT THE DESIGN CONFORMS TO SEISMIC REGUIREMENTS OF INTELLIGIAL CODES, STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR'S ENGINEER SHALL HAVE A CURRENT BUILDING CODE IDENTIFICATION NUMBER AND SAID NUMBER SHALL BE SHOWN ON ALL DRAWINGS AND CALCULATIONS. THE CONTRACTOR SHALL PROVIDE A STATEMENT THAT THE MECHANICAL SYSTEM HAS BEEN INSTALLED, INSPECTED AND ALL TESTS PERFORMED AS PER RELEVANT CODES AND STANDARDS. THIS STATEMENT SHALL BE SEALED TSSA REVIEW IS REQUIRED FOR ALL NATURAL GAS INSTALLATION, PIPING AND EQUIPMENT PRIOR TO FINAL OCCUPANCY. THE ABOVE REVIEWS SHALL TAKE THE FORM OF A REPORT BY A TSSA EMPLOYED INSPECTOR, SIGNED BY THAT INSPECTOR. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL SITE VISITS. THE CONTRACTOR SHALL MAKE GOOD, AT THE EXPENSE, ALL DEFICIENCIES FOUND BY THE TSSA INSPECTOR. THE INSPECTOR'S INSTRUCTIONS SHALL BE FINAL. THE CONTRACTOR SHALL COORDINATE TSSA REVIEW AND ANY SUBSEQUENT WORK WITH ALL OTHER TRADES AND THE OWNER. FINAL SIGN-OFF BY THE ENGINEER WILL NOT BE GRANTED UNTIL THE TSSA INSPECTOR'S REPORT IS CLEAR OF DEFICIENCIES. THE PLUMBING AND DRAINAGE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ONTARIO WATER RESOURCES COMMISSION ACT AND WITH MUNICIPAL AND PROVINCIAL CODES AND BY-LAWS PROVIDE PIPE, FITTINGS AND VALVES TO THE FOLLOWING STANDARDS: ARRANGE AND INSTALL PIPING APPROXIMATELY AS INDICATED. FORM RIGHT ANGLES ON PARALLEL LINES WITH BUILDING WALLS. SLOPE PIPING TO ACHIEVE PROPER DRAINAGE AND AIR ELIMINATION. PROVIDE DRAIN VALVES ON ALL LOW POINTS OF THE PIPING SYSTEM. PROVIDE AIR VENTS AT HIGH POINTS OF THE SYSTEM. ALL PIPING SHALL BE NEW, CLEAN AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING AND SHALL BE THOROUGHLY BRUSHED AND SCALE BLOW OUT. FLUSH AND CLEAN ALL PIPING SYSTEMS AFTER FINAL TESTING. FOR DOMESTIC WATER SERVICE USE LEAD FREE SOLDER ON SIZES UP TO 75MM PROVIDE DI-ELECTRIC UNIONS AT ALL COUPLINGS OF FERROUS AND NON-FERROUS PIPE. ALL GROUPS OF FIXTURES SHALL HAVE SHOCK ABSORBERS OF THE SEALED MANUFACTURED TYPE, SIZED TO SUIT THE NUMBER OF FIXTURES SERVED. AUXILIARY STRUCTURAL MEMBERS SHALL BE PROVIDED WHERE PIPING OR DUCT MUST BE SUSPENDED BETWEEN JOISTS AND BEAMS AND OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE INSTALLATION. THE HANGERS SUPPORTING INSULATED PIPING SHALL FIT AROUND THE OUTSIDE OF THE INSULATION. INSULATION SHIELDS SHALL BE SUPPLIED AND INSTALLED. DO NOT SUSPEND ON PIPE FROM ANOTHER.

SPACING AND MIDDLE ATTACHMENT (ROD) DIAMETER AS SPECIFIED IN PARAGRAPHS BELOW OR AS IN TABLE BELOW, WHICHEVER IS MORE STRINGENT. PLUMBING PIPING: MOST STRINGENT REQUIREMENTS OF CANADIAN PLUMBING CODE, PROVINCIAL CODE, OR AUTHORITY HAVING JURISDICTION. TO APPLICABLE FIRE CODE. COPPER PIPING: UP TO NPS 1/2: EVERY 1500.
FLEXIBLE JOINT ROLL GROOVE PIPE: IN ACCORDANCE WITH TABLE BELOW, BUT NOT LESS THAN ONE HANGER AT JOINTS. .6 WITHIN 12" OF EACH HORIZONTAL ELBOW. 1 1/2

2 1/2 3 1/2 HANGER INSTALLATION OFFSET HANGER SO THAT ROD IS VERTICAL IN OPERATING POSITION. ADJUST HANGERS TO EQUALIZE LOAD.

PROVIDE ANCHORS, GUIDES AND LOOPS TO COMPENSATE FOR EXPANSION AND CONTRACTION OF THE PIPEWORK. ERECT PIPING SO THAT THE WEIGHT DOES NOT FALL UPON THE CAST CONNECTIONS OR APPARATUS. FILL ALL NEW WATER SYSTEMS WITH WATER AND HYDRAULICALLY TEST WITH A PRESSURE OF ONE AND ONE-HALF TIMES THE WORKING PRESSURE AND MAINTAIN SUCH PRESSURE FOR 24 HOURS. SHOULD LEAKS APPEAR DURING THE TESTS, REPAIR THE DEFECT, AND RETEST.

INSTALL LEVEL AND IN A MANNER WHICH PROVIDES A WATER TIGHT SEAL AT THE FLOOR. ALL TRAPS TO BE PROTECTED BY 12 MM WATTS TRAP SEAL PRIMERS SUPPLIED FROM THE NEAREST

15B.8 VALVES ALL VALVES TO BE FROM ONE MANUFACTURER.

ALL VALVES TO BE SUITABLE FOR REPACKING UNDER PRESSURE. VALVES FORTHROTTLING PURPOSES AND BY-PASS VALVES TO BE GLOBE TYPE. UNLESS OTHERWISE SPECIFIED OR NOTED, VALVES TO BE ANSI CLASS 200 WOG OR 125/200 WOG NON-SHOCK, SCREWED OR SOLDERED ENDS, MALLEABLE IRON HANDLE. IN EQUIPMENT ROOMS, PROVIDE OS & Y.

SPECIFIED PRODUCT FOR DOMESTIC COLD AND HOT WATER VALVES: SCREWED | SOLDER | FLANGE | SCREWED | SOLDER | FLANGE GATE 2 NPS 428 & UNDER 1320 810 313 GLOBE 2 1/2 NPS AND OVER CHECK 2 NPS & UNDER 4092

FIT COMPOSITION DISC GLOBE VALVES FOR DOMESTIC HOT WATER SERVICE WITH DISCS SUITABLE FOR HOT WATER TO A MAXIMUM TEMPERATURE OF $77^{\circ}\mathrm{C}$. 15B.9 PIPING MATERIAL SCHEDULE ALL PIPING OF THE PLUMBING SYSTEMS SHALL COMPY WITH REQUIREMENTS OF THE O.B.C., SECTION 7.

2 NPS & SMALLER COPPER K MECHANICAL PLUMBING CODE PLUMBING CODE H & CW DOMESTIC | COPPER TYPE "L" OR ASTM | SOLDER ABOVE GROUND | SOLDER B88 PLUMBING COD SANITARY, STORM, PVC (DWV) TO CSA B181.2 VENT BELOW GROUND ABS (DWV) TO CSA B181.1 SOLDER AND MJ MECHANICAL JOINTS FOR CAST IRON SOLVENT WELDING PLUMBING COD COPPER (DWV) TO ASTM CAST IRON PVC-SYSTEM 15

ABC PIPING SHALL NOT BE INSTALLED IN A NON-COMBUSTIBLE BUILDING.

NO PLASTIC PIPING SHALL BE INSTALLED IN A RETURN AIR PLENUM UNLESS IT MEETS THE REQUIREMENTS OF THE SECTION 3.1.5.15 OF THE O.B.C. (FLAME SPREAD LESS THAN 25. SMOKE DEVELOPMENTS LESS THAN 50). ALL PENETRATIONS OF FIRE RATED SEPARATIONS MUST BE SEALED BY APPROVED FIRE STOPPING MATERIALS.

ALL PIPING SYSTEMS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES. HEATING AND CHILLED WATER PIPING - COPPER M, STEEL, VICTAULIC OR PRESSFIT AND ACCEPTABLE ALTERNATES.

15C HEATING, VENTILATING AND AIR CONDITIONING

UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED IRON

ALL RECTANGULAR DUCTWORK SHALL BE MANUFACTURED FROM "CROSS-BROKEN" SHEETS. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE-OFF. DETAILS, CONSTRUCTION AND MATERIALS NOT SPECIFIED HEREIN SHALL BE AS PER THE LATEST EDITION ASHRAE OR SMACNA STANDARDS. FABRICATE DUCTWORK IN A WORKMANLIKE MANNER, WITH AIR—TIGHT SEAMS. CURVED SECTIONS OF DUCTWORK SHALL HAVE AN INSIDE RADIUS OF NOT LESS THAN THE WIDTH OF THE DUCT. BRACE AND SUPPORT DUCT IN SUCH A MANNER THAT IT WILL NOT SAG, IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. JOINTS UP TO 450 MM TO BE STANDARD DRIVE SLIPS. JOINTS 450 MM AND OVER TO EPITTSBURGH SEAM LONGITUDINAL DRIVE SLIP. DUCT LEAKAGE SHALL NOT BE MORE THAN 5% OF TOTAL SYSTEM DESIGN WHEN SYSTEM IS OPERATING AT DESIGN CAPACITY. FLOWS TO EACH ROOM OR AREA SHALL BE BALANCED TO GIVE PROPORTIONALLY THE SAME FLOW AS INDICATED ON THE DRAWINGS.

SUPPORT DUCT ON HANGERS. SIZE, SPACING AND SUPPORT ROD DIAMETER IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. ALL DUCT SIZES LISTED ARE CLEAR OUTSIDE DIMENSIONS.

ALL SQUARE ELBOWS SHALL HAVE DOUBLE WALL TURNING VANES. SQUARE ELBOWS SHALL NOT BE USED IN LIEU OF LONG RADIUS ELBOWS.

SEE ALSO 15A.16. PROVIDE DUCT ACCESS DOORS AS INDICATED OR REQUIRED FOR ACCESS TO FIRE OR OTHER DAMPERS AND FOR SERVICE OR INSPECTION, AND FOR CLEANOUTS WHERE REQUIRED ON SPECIALTY ITEMS. HINGED TYPE ACCESS DOORS 300 MM X 300 MM UNLESS OTHERWISE STATED, COMPLETE WITH TWO SASH LOCKS. ACCESS DOOR SHALL NOT COMPROMISE THE FIRE RATING OF THE PARTITION INTO WHICH IT IS INSTALLED. 15C.4 DAMPERS

SPLITTERS: SHALL BE MANUFACTURED FROM THE SAME THICKNESS OF METAL AS THE DUCT AND SECURELY HINGED AT THE LEAVING EDGE AND MADE OF TWO THICKNESSES OF METAL SO THAT THE ENTERING EDGE HAS A ROUNDED SURFACE. BALANCING: PROVIDE MANUAL DAMPERS AT EACH BRANCH TAKE—OFF IN ALL LOW PRESSURE DUCTWORK. FABRICATE FROM 1.2 MM THICK GALVANIZED STEEL OR HEAVIER. BACKDRAFT: AUTOMATIC MULTI-BLADE LOW LEAKAGE LOUVRE TYPE CONSTRUCTED OF LIGHT GAUGE ALUMINUM. BLADES TO BE JOINED WITH A TIE BAR, HAVE RUSTPROOF SHAFTS AND BRONZE BUSHINGS. BLADES TO HAVE FELT EDGES. FIRE: ALL FIRE DAMPERS SHALL BE DYNAMIC FIRE DAMPERS UNLESS OTHERWISE NOTED. PROVIDE IN-DUCT FUSIBLE LINK FOR OUT-OF-THE-AIRSTREAM TYPE FIRE DAMPERS. EQUIPMENT MUST BEAR UL LABEL AND MUST NOT CONTAIN ASBESTOS.

15C.5 THERMOSTATS (UNDER 50V) THERMOSTATS SHALL BE INSTALLED AND WIRED BY DIVISION 15. ALL THERMOSTATS LOCATED IN PUBLIC AREAS SHALL BE PROTECTED BY CLEAR, KEY OPERATED PLASTIC COVERS. THERMOSTATS IN STORAGE, SHIPPING/RECEIVING OR SIMILAR AREAS SHALL BE PROTECTED BY A LOCKABLE METAL COVER.

PROVIDE TEST OPENINGS IN ALL DUCTWORK AT ALL FAN DISCHARGES, AT ALL MAJOR BRANCH DUCTS AND RUN-OUTS FOR WHERE REQUIRED TO BALANCE THE SYSTEM.

INSULATE ALL WATER PIPING COLDER THAN 5°C OR HOTTER THAN 37°C. APPLY PIPE INSULATION WHEN REQUIRED HYDROSTATIC TESTS HAVE BEEN COMPLETED. INSULATION SHALL BE APPLIED TO CLEAN DRY PIPE AND DUCTS. ALL DUCT JOINTS BUTTED FIRMLY AND LAPPED WITH 100 MM WIDE STRIP OF APPROVED ADHESIVE VAPOUR PROOF TAPE. COVER ALL PIPE FITTINGS USING FABRICATED SECTION FROM THE PIPE COVERING.

APPLY AN APPROVED VAPOUR BARRIER OVER ALL PIPES HAVING COLD SURFACES AND ENSURE A SUITABLE SEAL. U15D.2 DOMESTIC WATER PIPING PROVIDE FIBREGLASS FLEXIBLE INSULATION FACED WITH "RGGRK" VAPOUR BARRIER. ADHERE INSULATION WITH 100MM STRIPS OF INSULATION BONDING ADHESIVE AT 200MM

O.C. TAPE ALL JOINTS AS PER SUPPLIER'S INSTRUCTIONS. INSULATE ALL HORIZONTAL AND VERTICAL RAINWATER LEADERS AND UNDERSIDE OF ROOF DRAIN BODIES AND PANS. TEMPERATURE/THICKNESS, DOMESTIC COLD WATER UNDER 5°C, CHILLED

FLUID TEMPERATURE 1 NPS AND UNDER 1 1/4-2 2 1/2-4 5 & OVER (°C) (THICKNESS IN MM) 15D.4 TEMPERATURE/THICKNESS, DOMESTIC HOT WATER (60°C), HEATING WATER FLUID TEMPERATURE 1 NPS AND UNDER 1 1/4 - 2 2 1/2 - 4 5 & OVER (THICKNESS IN MM) 51-95 30-50

15D.5 DUCTWORK (THERMAL) WHERE INDICATED ON DRAWINGS AND:

INSULATE A/C DUCTWORK WITHIN CEILING SPACE WITH 25MM FIBREGLAS INSULATION AND ANTI-SWEAT VAPOUR BARRIER. INSULATE ALL EXTERIOR DUCTWORK WITH 50MM FIBREGLASS INSULATION AND "RFFRK" VAPOUR BARRIER C/W 2 LAYERS OF WATERPROOFING. INSULATE ALL EXHAUST DUCTWORK PASSING THROUGH AN EXTERIOR WALL 1800MM BACK FROM WALL WITH 50MM FIBREGLAS INSULATION AND ANTI-SWEAT VAPOUR BARRIER. INSULATE ALL FRESH AIR INTAKE DUCTS WITH 2" THICK INSULATION C/W VAPOUR BARRIER.

15D.6 DUCTWORK (ACOUSTIC) WHERE INDICATED ON DRAWINGS

PROVIDE 25MM THICK RIGID FIBREGLAS WITH A DENSITY OF 32 KG/CU.M. COAT THE EXPOSED SURFACE WITH A BLACK NEOPRENE COMPOUND. LINER TO BE GLUE AND SCREW FASTENED WITH METAL EDGING. INCREASE DUCT SIZES SHOWN ON DRAWINGS TO ACCOMMODATE INSULATION THICKNESS WHERE ACOUSTIC INSULATION IS REQUIRED.

POTABLE WATER DISTRIBUTION PIPING, PEX

I.1. INCLUDED — ALL LABOUR, MATERIALS, TRANSPORTATION, EQUIPMENT AND SERVICES TO INSTALL A POTABLE WATER DISTRIBUTION SYSTEM WHERE INDICATED ON THE DRAWINGS FOR THE PROJECT. 1.2. RELATED WORK — EXAMINE ALL OTHER PORTIONS OF THE SUBCONTRACT DOCUMENTS FOR WORK OR OTHER TERMS AND CONDITIONS RELATED TO THE WORK OF THIS SECTION. PROVIDE ALL WORK HEREUNDER AS REQUIRED FOR THE SUPPORT AND ACCOMMODATION OF RELATED WORK.

. SECTION 1 - SCOPE OF WORK

2.1. ALL COMPONENTS OF SYSTEM SHALL BE PROVIDED BY ONE MANUFACTURER INCLUDING TUBING, TUBING FITTINGS, MANIFOLDS AND TUBING BEND SUPPORTS AS MANUFACTURED BY WIRSBO OR APPROVED EQUAL.

.1 TUBING SHALL CARRY A TWENTY—FIVE (25) YEAR NON—PRORATED WARRANTY, FROM DATE OF SUBSTANTIAL COMPLETION, AGAINST FAILURE DUE TO MANUFACTURING DEFECT OR WORKMANSHIP. 2 FITTINGS SHALL BE WARRANTED FOR TWENTY—FIVE (25) YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

.3 WARRANTY OF TUBE, FITTING AND CONNECTION SHALL PROVIDE FOR MATERIALS, LABOR AND ON SEQUENTIAL DAMAGE AS OUTLINED IN THE CURRENT WIRSBO OF CANADA LTD. LIMITED WARRANTY. .4 WARRANTY SHALL BE IN FORCE ONLY AFTER COMPLETION OF MANUFACTURER'S CERTIFIED PROJECT CHECKLIST.

3. SECTION 3 - PRODUCTS AND MATERIALS

3.1.1. TUBING SHALL BE CROSS—LINKED POLYETHYLENE (DENOTED PEX OR AQUAPEX BELOW), RATED AT 180'F MAXIMUM WORKING TEMPERATURE AND UP TO 100 PSI WORKING PRESSURE (200'F ● 80 PSI) IN ACCORDANCE WITH ASTM STANDARD F876—877, AS MANUFACTURED BY WIRSBO. TUBING SHALL BE CSA APPROVED TO CSA STANDARD CSA—R137.5—M97

3.1.2. TUBING SHALL BE MANUFACTURED BY THE "ENGEL METHOD." 3.1.3. TUBING SHALL NOT LEACH TOXINS INTO THE POTABLE WATER.

5 WARRANTY SHALL BE TRANSFERABLE TO SUBSEQUENT OWNERS.

3.1.4. TUBING SHALL BE MANUFACTURER APPROVED FOR CONTINUOUS CIRCULATION 3.1.5. TUBING SHALL ALLOW FOR REPAIR OF KINKS WITH A HEAT GUN WITH I DAMAGE TO THE TUBE. 3.1.6. TUBING SHALL HAVE A 25 FLAME SPREAD CLASSIFICATION, 50 SMOKE DEVELOPED CLASSIFICATION WHEN TESTED IN ACCORDANCE WITH CAN/ULC \$102.2-M88, STANDARD FOR BURNING CHARACTERISTICS OF FLOORING, FLOOR COVERING AND MISCELLANEOUS MATERIALS AND ASSEMBLIES.

3.1.7. THE MINIMUM BEND RADIUS FOR COLD BENDING OF THE TUBING SHALL NOT BE LESS THAN EIGHT(8) TIMES THE OUTSIDE DIAMETER. BENDS WITH A RADIUS LESS THAN STATED REQUIRE THE USE OF A BEND SUPPORT SUPPLIED BY THE TUBING MANUFACTURER.FOR THIS PROJECT. 3.2. MANIFOLDS — SHALL BE TYPE "L" COPPER CONSTRUCTION APPROVED TO CSA-B137.5-M97.

3.3. TUBE FITTINGS — SHALL BE MANUFACTURED OF DEZINCIFICATION RESISTANT BRASS OR POLYSULFONE. FITTINGS TO BE SUPPLIED BY THE TUBING MANUFACTURER. TUBE FITTING SHALL CONSIST OF A COMBINATION INSERT/PLUMBING CONNECTION AND COLOR CODED PEX RING. TUBE FITTINGS SHALL BE APPROVED TO CSA—B137.5—M97. 3.4. DROP EAR BEND SUPPORTS — SHALL BE USED FOR TUBE EXITING A WALL MEMBRANE. 3.5. CONCRETE TUBE SUPPORT BRACKETS — SHALL BE USED TO SUPPORT TUBE EXITING THE SLAB AT MANIFOLD AND FIXTURE END. ACCEPTABLE PRODUCTS

3.6. FIXTURE SHUT-OFFS - SHALL BE BY TUBING MANUFACTURER OR AS INDICATED.

3.7. FIRESTOP — REFER TO APPLICABLE SUBCONTRACT DOCUMENTS FOR FIRESTOPPING REQUIREMENTS. APPROVED FIRESTOP COMPOUND — WIRSBO AQUAPEX FIRESTOP SEALANT. 3.8 DELIVERY, STORAGE AND HANDLING

I GENERAL: COMPLY WITH DIVISION 1 PRODUCT REQUIREMENTS SECTIONS. .2 Ordering: comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays. .3 DELIVERY: DELIVER MATERIALS TO JOB SITE IN MANUFACTURER'S ORIGINAL UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT. .4 STORAGE AND PROTECTION: STORE MATERIALS PROTECTED FROM EXPOSURE TO HARMFUL WEATHER AND JOB SITE SITE CONDITIONS. .5 STORE PEX TUBING IN CARTONS OR UNDER COVER TO AVOID DIRT OR FOREIGN MATERIAL FROM BEING INTRODUCED INTO THE TUBING. .6. DO NOT EXPOSE PEX TUBING TO DIRECT SUNLIGHT FOR MORE THAN 30 DAYS. IF CONSTRUCTION DELAYS ARE ENCOUNTERED, INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING COVER TO PORTIONS OF TUBING EXPOSED TO DIRECT SUNLIGHT.

4. SECTION 4 - EXECUTION

4.1 QUALIFICATIONS: 1. INSTALLER QUALIFICATIONS: INSTALLER EXPERIENCED IN PERFORMING WORK OF THIS SECTION WHO HAS SPECIALIZED IN INSTALLATION OF WORK SIMILAR TO THAT REQUIRED FOR THIS PROJECT. 2. INSTALLER SHALL PROVIDE, IN WRITING, TO PROJECT OWNER THAT THE PEX TUBING FURNISHED UNDER THIS SPECIFICATION CONFORMS TO THE MATERIAL AND MECHANICAL REQUIREMENTS SPECIFIED HEREIN. 3. CERTIFICATE: SUBMIT CERTIFICATE INDICATING CERTIFICATION AS A MANUFACTURER'S TRAINED INSTALLER. 4.2. PRE-INSTALLATION MEETINGS: CONDUCT PRE-INSTALLATION MEETING TO VERIFY PROJECT REQUIREMENTS, SUBSTRATE CONDITIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MANUFACTURER'S WARRANTY REQUIREMENTS. COMPLY WITH DIVISION 4.3 POTABLE WATER TUBING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. 4.4 IN STRUCTURAL SLABS, TUBING SHALL BE SLEEVED WITH UTILITY GRADE POLYETHYLENE TUBING OR RIGID PVC CONDUIT. UTILITY GRADE POLYETHYLENE SLEEVING SHALL BE SUPPORTED BY "J-BRACKET" WHERE TUBING ENTERS/EXITS THE SLAB. TUBING ENCASED IN CONCRETE TOPPING SHALL BE SLEEVED WITH THE APPROVED APPROPRIATE MATERIAL AS REQUIRED BY THE AUTHORITY HAVING JURISDICITON.

4.5 TUBING SHALL EXIT WALL AT FIXTURE. 4.6 ON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE CHARGED WITH POTABLE WATER OR AIR TO A PRESSURE WHICH MEETS LOCAL PLUMBING CODE REQUIREMENTS. 4.7 PRIOR TO COMMISSIONING THE POTABLE WATER SYSTEM, THE TUBING SHALL BE INSPECTED BY THE LOCAL PLUMBING INSPECTOR AND A REPORT SHALL BE OBTAINED IN WRITING. 4.8 THE CONTRACTOR SHALL PROVIDE POTABLE WATER OR OIL-FREE AIR FOR PRESSURIZING TESTING.

4.9 FIELD QUALITY REQUIREMENTS .1 SITE TESTS (INSTALLATION AND POST-INSTALLATION TESTING): [SPECIFY APPLICABLE TEST REQUIREMENTS TO BE PREFORMED DURING AND AFTER PRODUCT INSTALLATION]. 2 MANUFACTURER'S FIELD SERVICES: PROVIDE MANUFACTURER'S FIELD SERVICE CONSISTING OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISIT FOI INSPECTION OF PRODUCT USE RECOMMENDATIONS AND PERIODIC SITE VISIT FOR INSPECTION OF PRODUCT INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

8 WITH THE SPECIFICATION. WHERE CONFLICT ARISES THE MORE STRINGENT OF THE TWO SHALL APPLY. COPYRIGHT © 2020 QUADRANT ENGINEERING.

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QE BEARS NO RESPONSIBILITY FOR INTERPRETATIONS OF THESE DOCUMENTS BY OTHERS.

CONSULTANTS' DESIGN DOCUMENTS PRIOR TO STARTING

UPON WRITTEN APPLICATION QE WILL PROVIDE WRITTEN CLARIFICATION REGARDING THE INTENT OF THE CONTRACT

QE REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR IS FOR DESIGN CONFORMANCE ONLY.

CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS ON SITE, REQUIRED TO PERFORM THE WORK AND REPORT ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE DESIGN TEAM BEFORE COMMENCING WORK.

4	ISSUED FOR CONSTRUCTION	28 JAN 2020
3	ISSUED FOR ADD-M01	13 DEC 2019
2	ISSUED FOR PRICING	29 NOV 2019
1	ISSUED FOR PERMIT	15 NOV 2019
NO.	REVISION	DATE

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	CURRENT 1	DATE Tue, 28 Jan 2020, 15
	SCALE	NTS
	DRAWN	CWC
	DESIGNED	CWC
	CHECKED	CWC
	PROJECT	19-Q025
	DRAWING N	NUMBER

M - 03

SPECIFICATION

Drawing name: C:\Users\QEL-05\appdata\local\temp\AcPublish_10904\19-Q025M Mechanical.dwg