

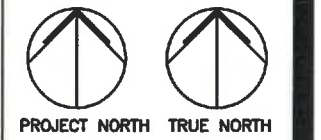
GARDERIE LA BOÎTE À SOLEIL

310 FITCH STREET, WELLAND, ONTARIO

INTERIOR RENOVATIONS

DENIS GERALD RIOUX
 ARCHITECT
 85 HEMAN STREET, TORONTO, ONTARIO M6V 1K4

NO.	DATE	REVISIONS
01	2024-05-15	ISSUED FOR TENDER



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PROJECT
 GARDERIE LA BOÎTE À SOLEIL
 310 FITCH STREET
 L3C 4W5
 WELLAND, ONTARIO
 ÉC DU SACRÉ-CŒUR

CLIENT
MON AVENIR
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

DRAWING
 COVER PAGE

PROJECT NUMBER	DATE
2401	May 15, 2024
SCALE	PLOTTED DATE
AS NOTED	

DRAWING NO.

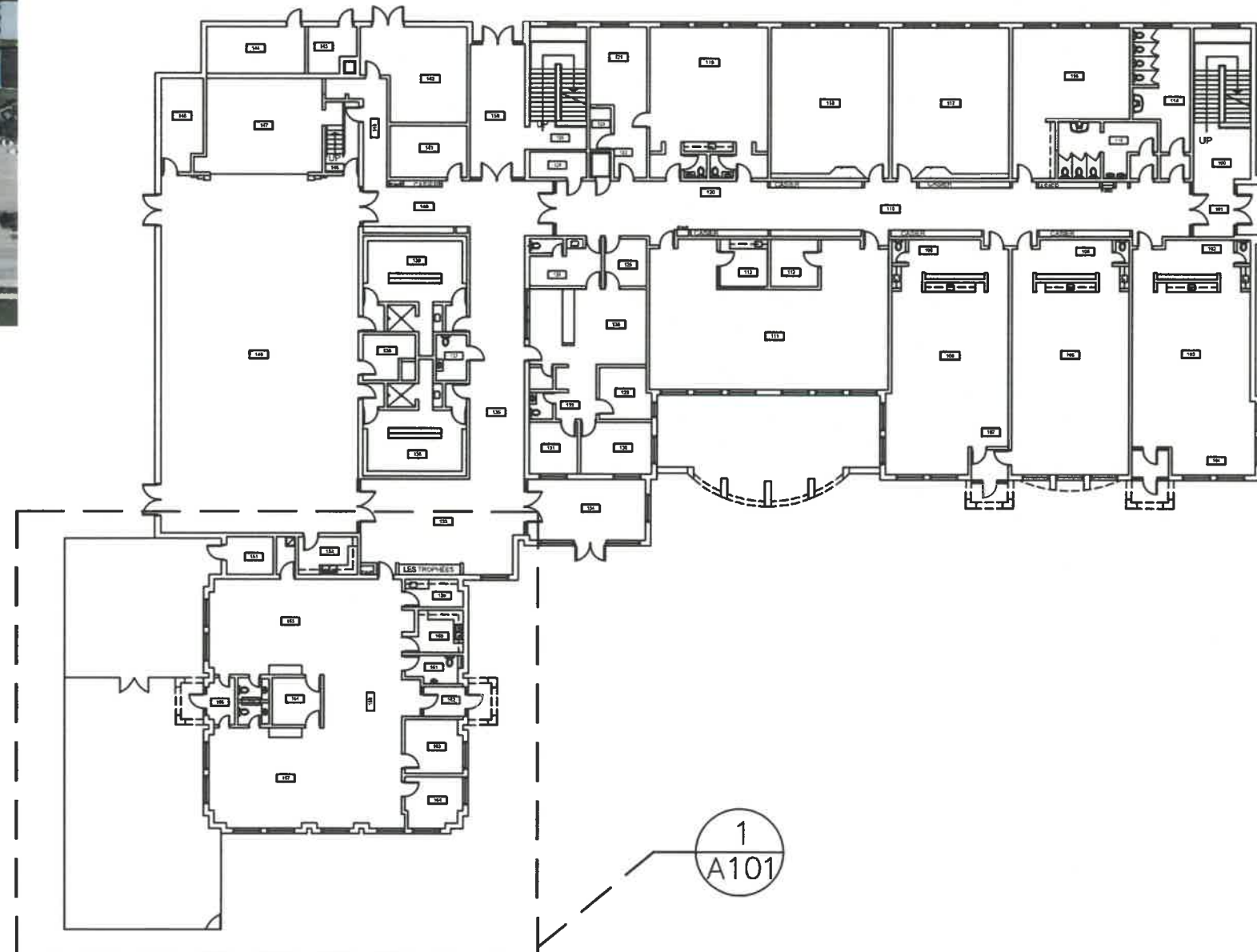
A100



1 KEY PLAN
 A100 SCALE: NTS

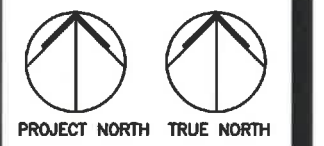
DRAWING LIST

ARCHITECTURAL	
A100	COVER PAGE
A101	OVERALL EXISTING PLAN
A102	ROOM 157 - FLOOR PLAN - DEMOLITION PLAN & NOTES
A103	ROOM 153 - FLOOR PLAN - DEMOLITION/RENOVATION PLAN & NOTES
A104	ROOM 155 (WASHROOM) & ROOM 154 (STORAGE) - DEMOLITION PLAN & NOTES
A105	ROOM 158 - DEMOLITION PLAN & DEMOLITION NOTES & ROOM 158 - RENOVATION PLAN & NOTES
A106	ROOM 155 (WASHROOM) & ROOM 154 (STORAGE) - RENOVATION PLAN & NOTES
A107	ROOM 155 (WASHROOM) & ROOM 154 (STORAGE) - REFLECTED CEILING PLAN
A200	DOOR SCHEDULE & ROOM FINISH SCHEDULE
A300	MILLWORK DETAIL - NEW CUBBIES ELEVATION
A301	MILLWORK DETAIL - CHANGE TABLE & CUPBOARDS ELEVATION
A302	MILLWORK DETAIL - COTT STORAGE
MECHANICAL	
M-1	HVAC AND PLUMBING DEMOLITION
M-2	HVAC AND PLUMBING NEW
M-3	SCHEDULES
M-4	SPECIFICATIONS
ELECTRICAL	
E-1	POWER AND LIGHTING DEMOLITION
E-2	POWER AND LIGHTING NEW
E-3	SPECIFICATIONS



1 KEY PLAN
 A100 SCALE: NTS

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 WELAND, ONTARIO
 ÉC DU SACRÉ-CŒUR

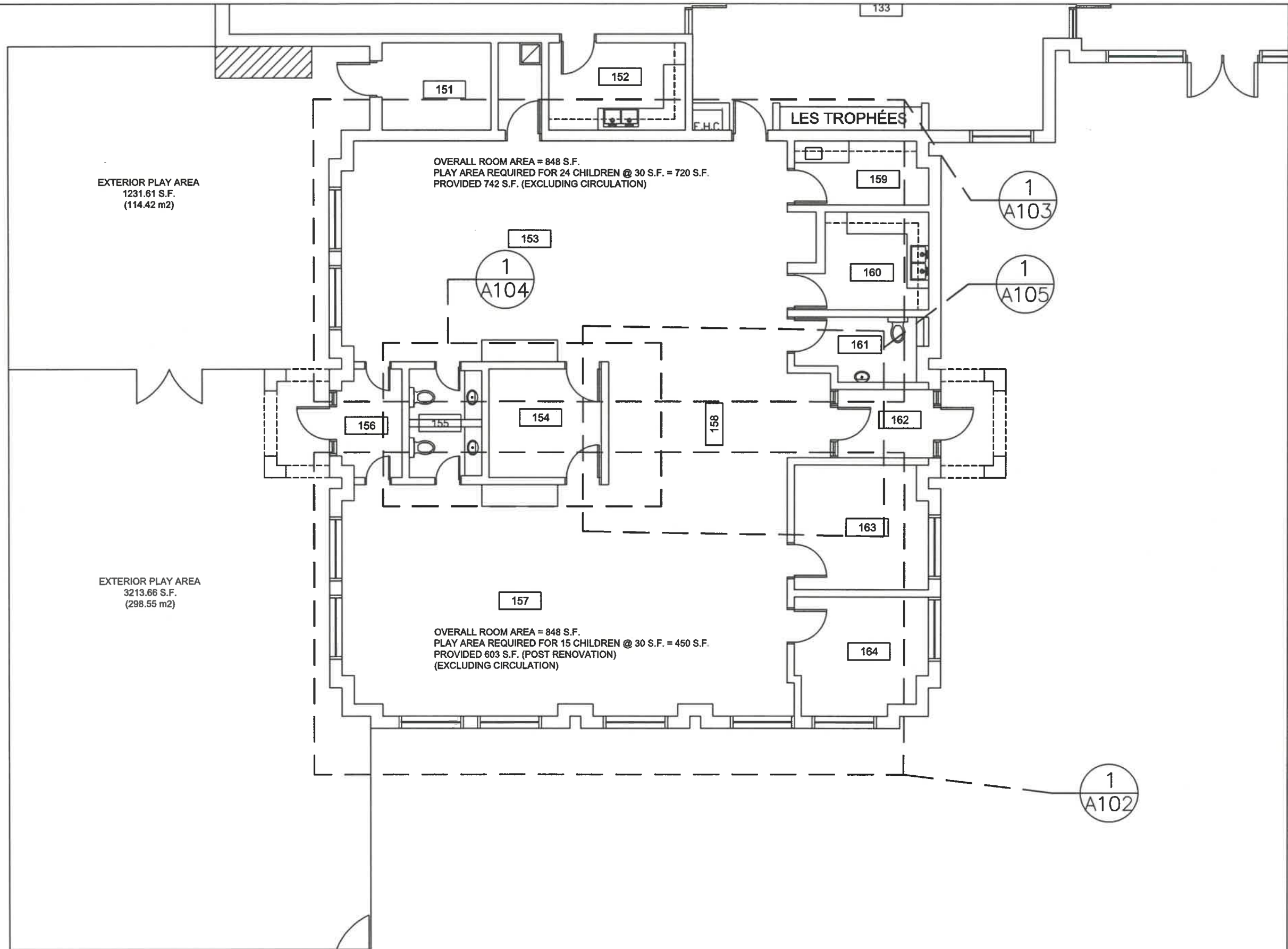
CLIENT
 **MON AVENIR**
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

DRAWING
 OVERALL EXISTING PLAN

PROJECT NUMBER 2401	DATE May 15, 2024
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DRAWING NO.

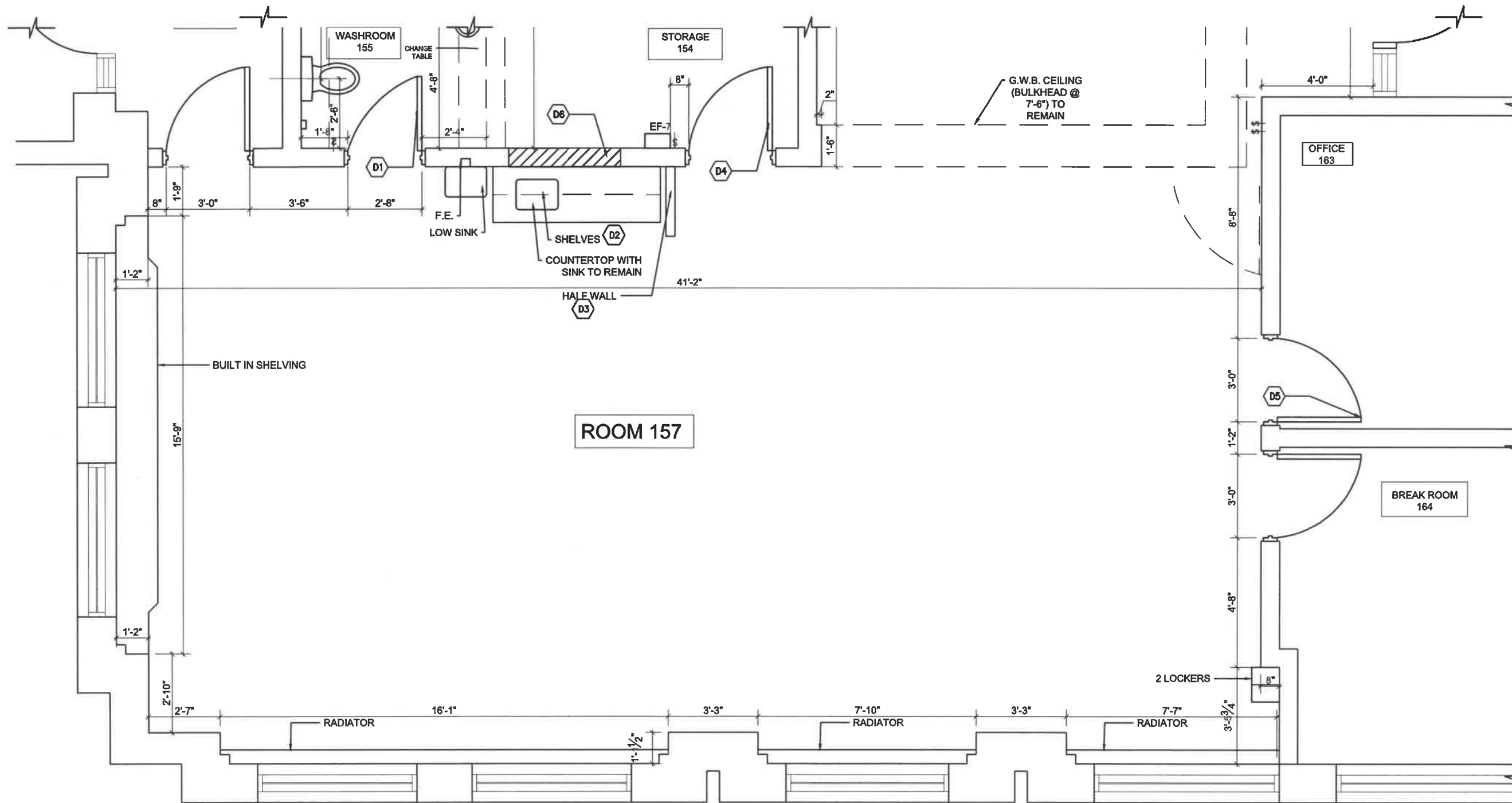
A101



1
A101 **OVERALL EXISTING PLAN**
 SCALE: NTS

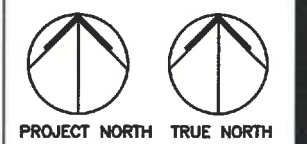
DEMOLITION KEY NOTES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D1	EXISTING EXISTING DOORS TO BE REMOVED & EXISTING HARDWARE CUTOUTS TO BE FILLED, READY FOR NEW PAINT FINISH. (SALVAGE EXISTING FINGER GUARD)	D3	REMOVE EXISTING HALF WALL	D6	REMOVE EXISTING MASONRY FOR NEW WINDOW OPENING. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR RELOCATION OF EXISTING SERVICES.
		D4	EXISTING DOOR TO BE SEALED IN LOCKED POSITION.		
D2	REMOVE UPPER CUPBOARDS & ADJACENT SHELVES	D5	REMOVE EXISTING DOOR (SALVAGE EXISTING) LOCKSET AND AIR TRANSFER GRILLE FOR INSTALLATION IN NEW DOOR.		



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ARCHITECT
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310 FITCH STREET
L3C 4W5
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ÉC DU SACRÉ-CŒUR

CLIENT
Mon Avenir
110, AVENUE DREWRY
TORONTO, ON
M2M 1C8

DRAWING
ROOM 157 - FLOOR PLAN & DEMOLITION NOTES

PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

DRAWING NO.

1 ROOM 157 - FLOOR PLAN
A102 SCALE: 1/4"=1'-0"

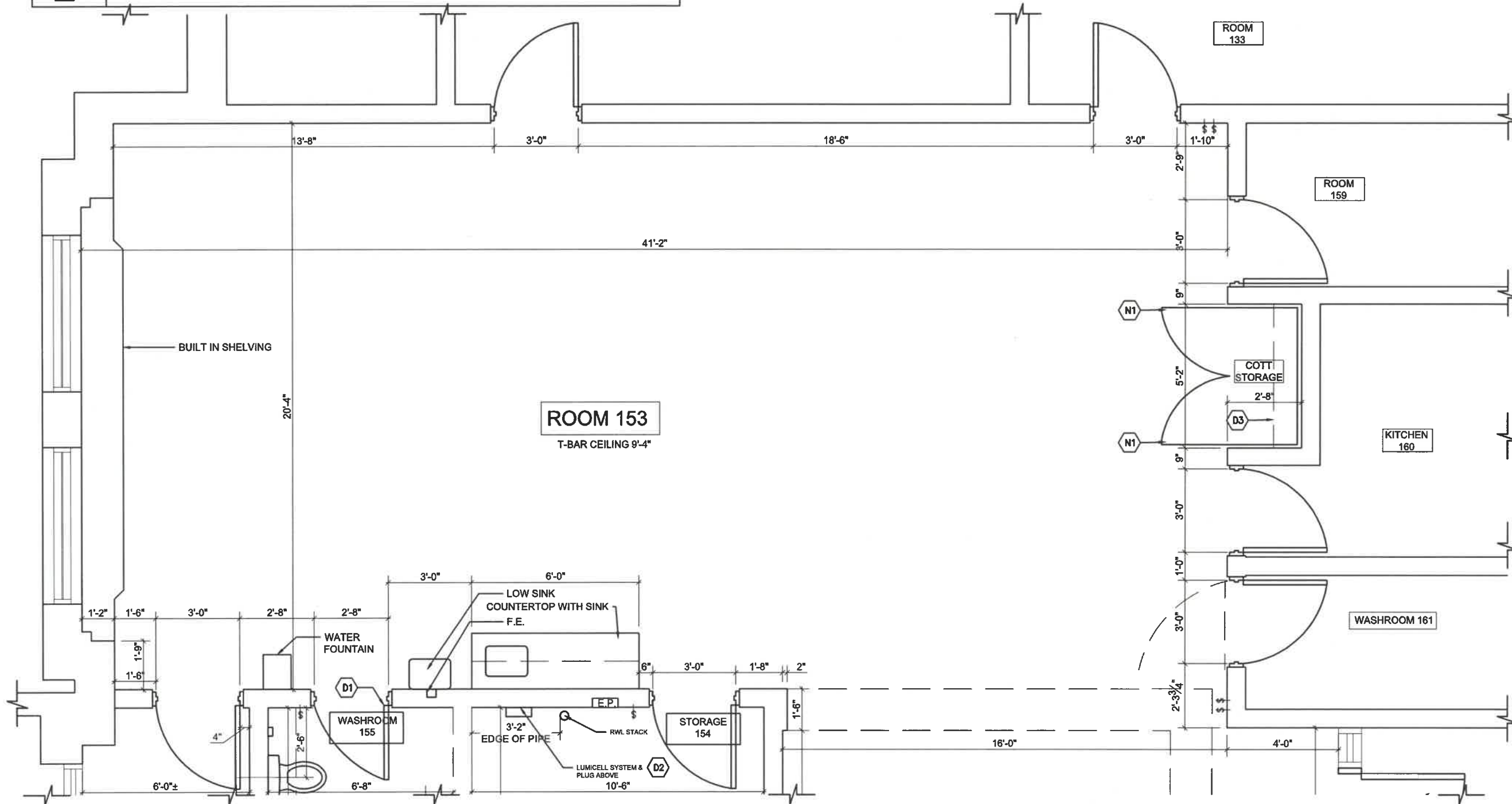
A102

DEMOLITION KEY NOTES

SYMBOL	DESCRIPTION
D1	EXISTING DOOR TO BE REMOVED & EXISTING HARDWARE CUTOUTS TO BE FILLED, READY FOR NEW PAINT FINISH. (SALVAGE EXISTING FINGER GUARD)
D2	EXISTING LUMICELL SYSTEM & ELECTRICAL OUTLET TO BE RELOCATED – REFER TO ELECTRICAL DRAWINGS.
D3	REMOVE EXISTING UPPER CUPBOARDS.

RENOVATION KEY NOTES

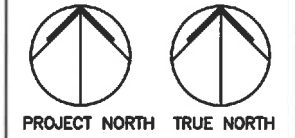
SYMBOL	DESCRIPTION
N1	NEW COTT STORAGE CABINET – REFER TO DRAWING A302.



1 ROOM 153 - FLOOR PLAN
A103 SCALE: 1/4"=1'-0"

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ARCHITECT
63 HEMAN STREET, TORONTO, ONTARIO M5V 1K4

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GARDERIE LA BOÎTE À SOLEIL
310 FITCH STREET
L5C 4W5
WELLAND, ONTARIO
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CLIENT
MON AVENIR
110, AVENUE DREWRY
TORONTO, ON
M2M 1C8

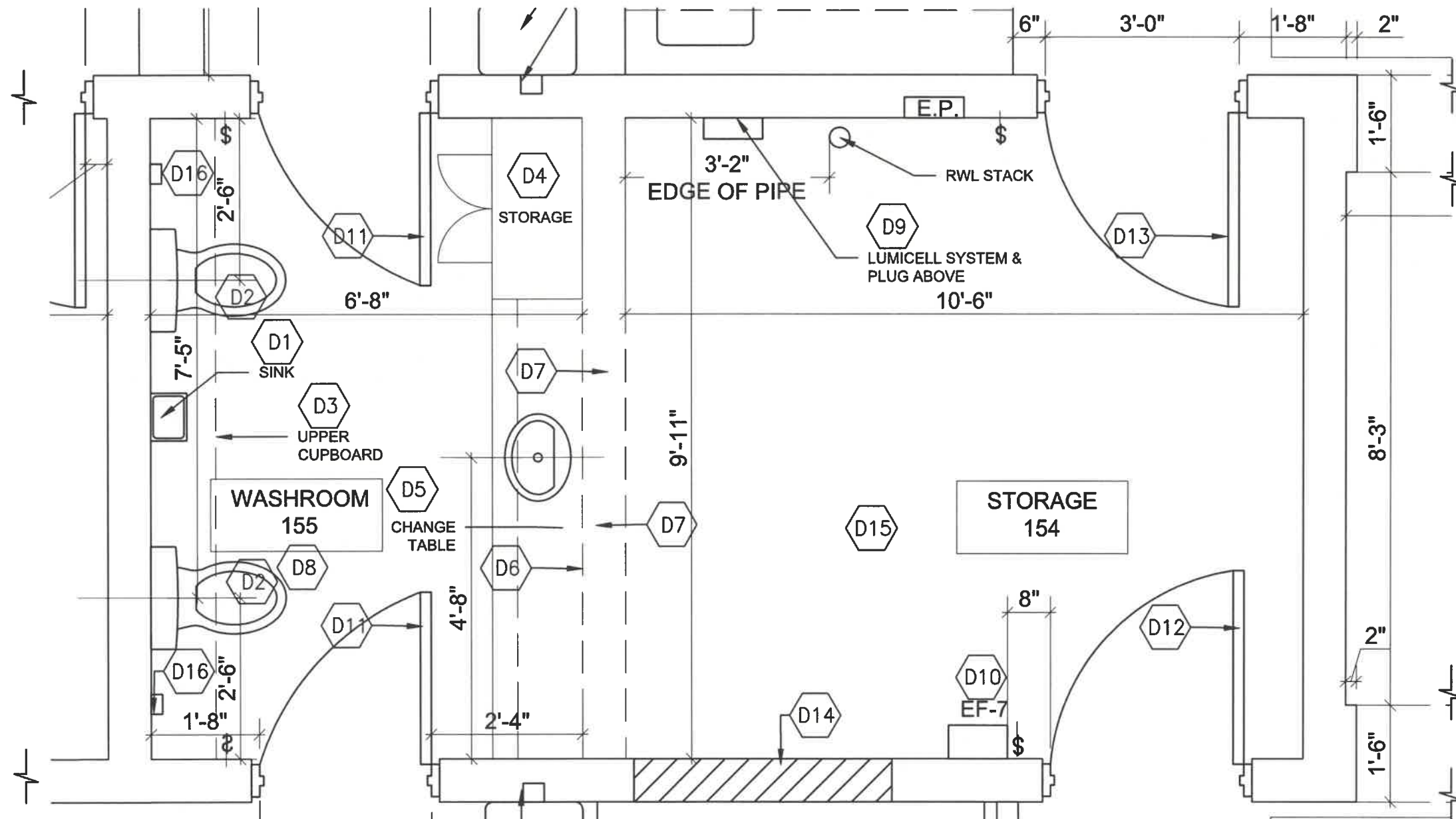
DRAWING
ROOM 153 - FLOOR PLAN -
DEMOLITION/RENOVATION
NOTES

PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

A103

DEMOLITION KEY NOTES

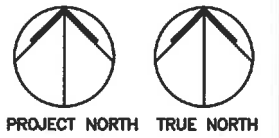
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D1	REMOVE EXISTING SINK AND RELATED PLUMBING. REFER TO MECHANICAL DWGS FOR NEW SINKS. RELOCATE EXISTING SOAP DISPENSER & TOWEL DISPENSER.	D6	EXISTING MIRROR TO BE SALVAGED FOR RE-INSTALLATION.	D11	EXISTING DOORS TO BE REMOVED & EXISTING HARDWARE CUTOUTS TO BE FILLED, READY FOR NEW PAINT FINISH. (SALVAGE EXISTING FINGER GUARDS)
D2	REMOVE EXISTING TOILET. REFER TO MECHANICAL DWGS FOR NEW TOILET.	D7	EXISTING MASONRY WALL TO BE REMOVED & MAKE GOOD FOR NEW PAINT FINISH.	D12	EXISTING DOOR TO BE SEALED IN LOCKED POSITION.
D3	EXISTING UPPER CUPBOARD TO REMAIN.	D8	EXISTING VINYL TILE FLOORING & SUSPENDED T-BAR CEILING TO BE REMOVED.	D13	EXISTING DOOR TO REMAIN.
D4	EXISTING STORAGE CUPBOARD TO BE REMOVED.	D9	EXISTING LUMICELL SYSTEM & ELECTRICAL OUTLET TO BE RELOCATED - REFER TO ELECTRICAL DRAWINGS.	D14	REMOVE EXISTING MASONRY FOR NEW WINDOW OPENING - REFER TO ELEVATION 1/A301.
D5	EXISTING CHANGE TABLE, EXISTING SINK & UPPER CUPBOARD TO BE REMOVED.	D10	EXISTING EF-7 PANEL TO BE RELOCATED - REFER TO ELECTRICAL DRAWINGS..	D15	EXISTING SUSPENDED T-BAR CEILING TO BE REMOVED.
				D16	EXISTING TOILET PAPER DISPENSER TO REMAIN.



1 ROOM 155 (WASHROOM) + ROOM 154 (STORAGE) - DEMOLITION PLAN
 SCALE: 1/2"=1'-0"

DENIS GERALD RIOUX
 ARCHITECT
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 WELLS, ONTARIO
 EEC DU SACRÉ-CŒUR

CLIENT
 MON AVENIR
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

DRAWING
 ROOM 155 (WASHROOM) & ROOM 154 (STORAGE) - DEMOLITION PLAN & DEMOLITION NOTES

PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

DRAWING NO.

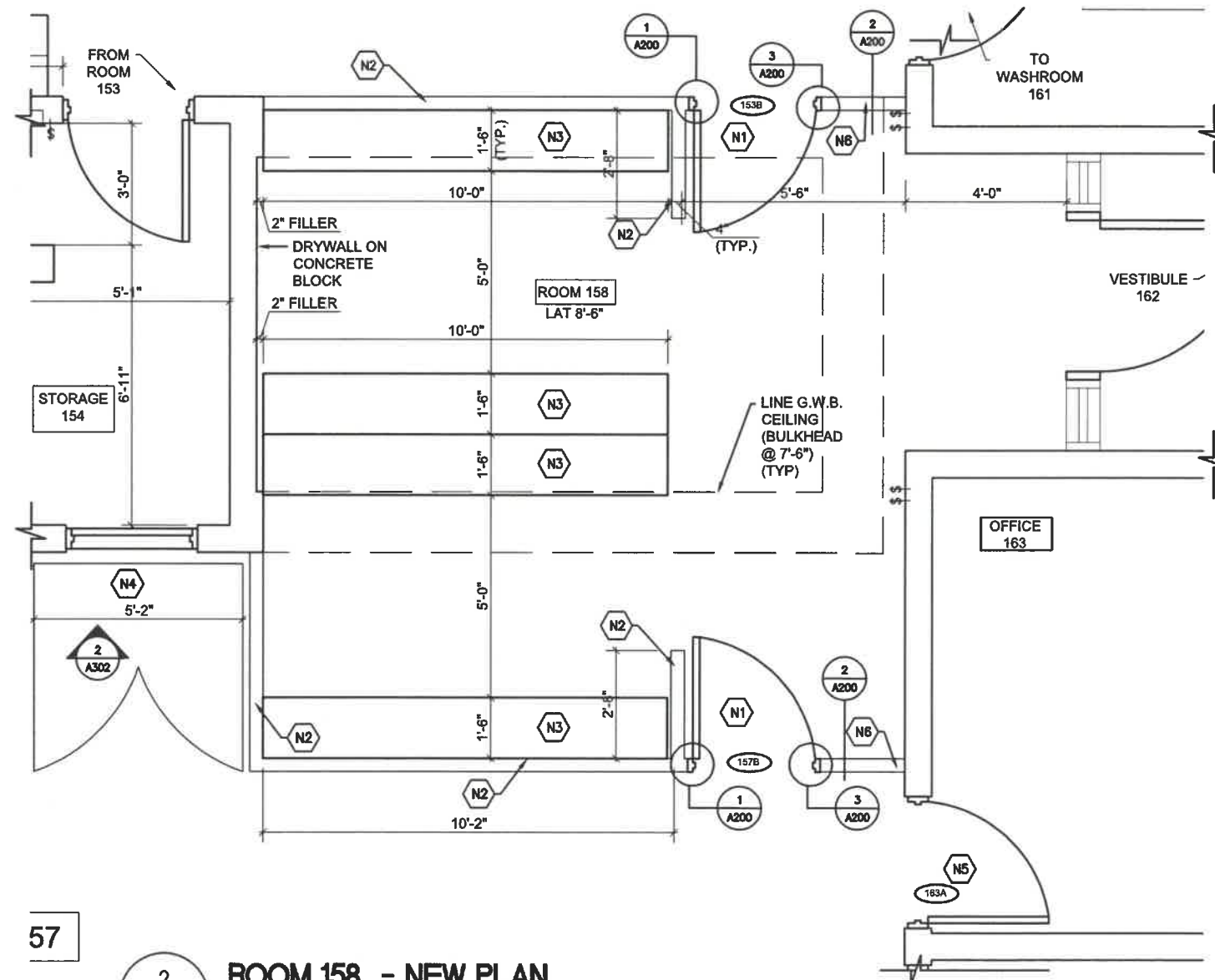
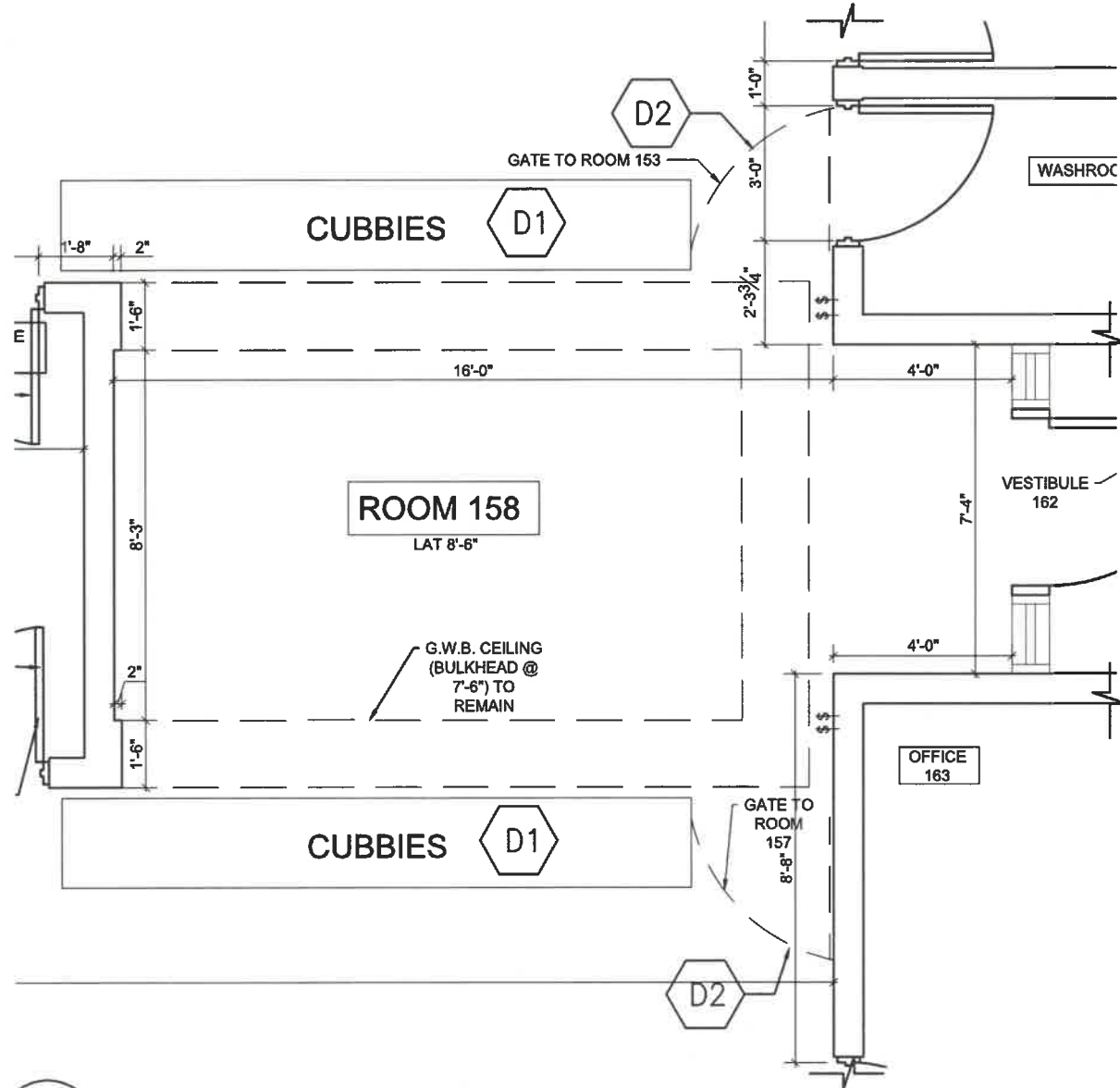
A104

DEMOLITION KEY NOTES

SYMBOL	DESCRIPTION
D1	EXISTING CUBBIES TO BE REMOVED.
D2	EXISTING HALF DOORS AND FRAMES TO BE REMOVED.

RENOVATION KEY NOTES

SYMBOL	DESCRIPTION
N1	NEW WOOD DOOR 38" WIDE X 40" HIGH X 1 3/4" THICKNESS. CLEAR FINISH. REFER TO DOOR SCHEDULE.
N2	NEW 4" G.W.B. PARTITION, 7'-2" HEIGHT.
N3	NEW CUBBIES - REFER TO DRAWINGS A300.
N4	NEW COTT STORAGE CABINET - REFER TO DRAWING A302
N5	NEW WOOD DUTCH DOOR 36" WIDE X 84" HIGH X 1 3/4" THICKNESS. CLEAR FINISH - REFER TO DOOR SCHEDULE.
N6	NEW 4" G.W.B. PARTITION - 42" HIGH. REFER TO DETAIL 2/ A-200.

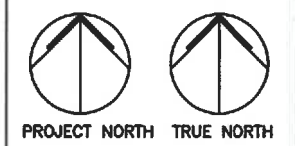


1 ROOM 158 - DEMOLITION PLAN
SCALE: 1/4"=1'-0"

2 ROOM 158 - NEW PLAN
SCALE: 1/4"=1'-0"

DENIS GERALD RIOUX
ARCHITECT
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310 FITCH STREET
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WELLAND, ONTARIO
ÉC DU SACRÉ-CŒUR

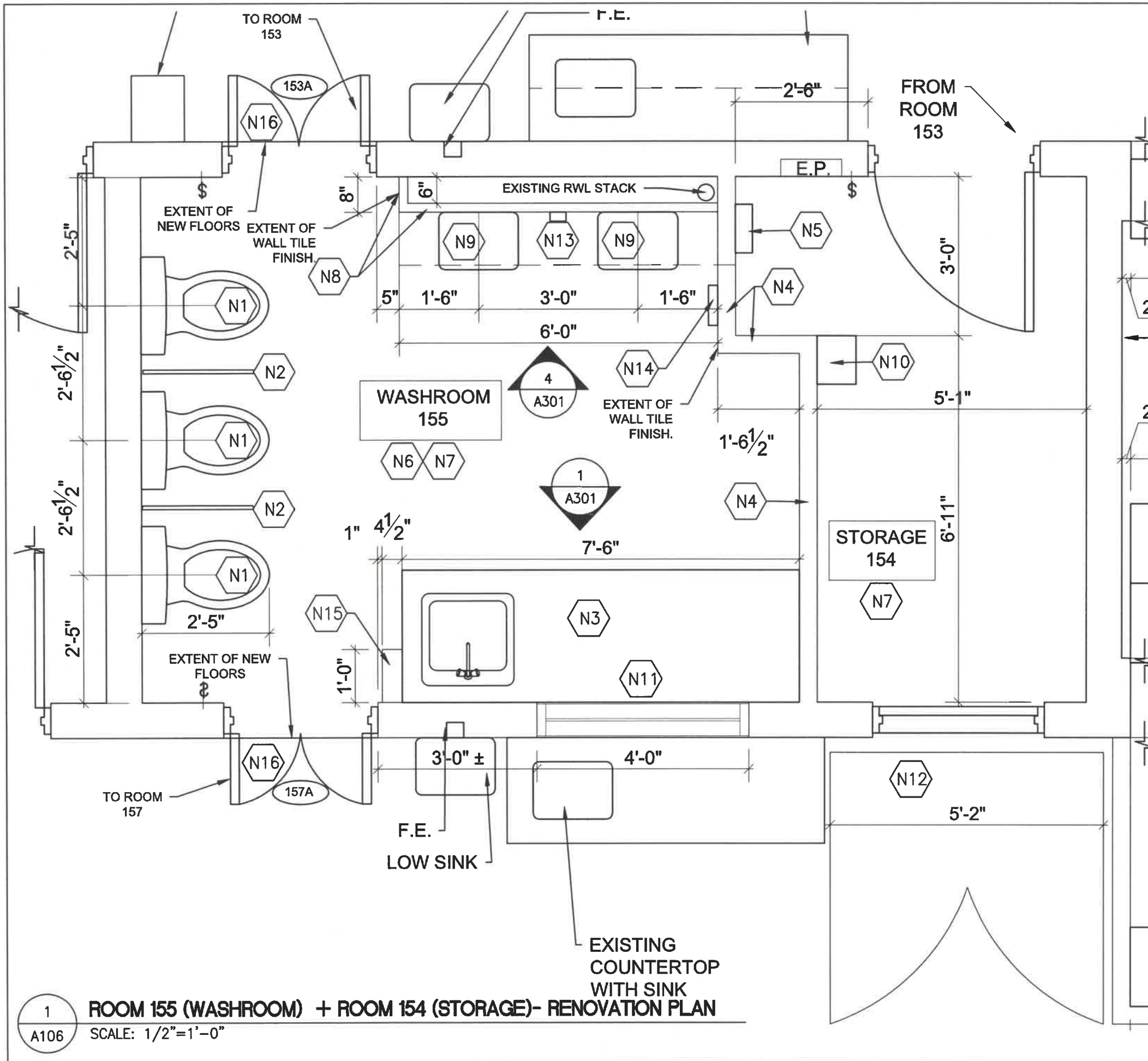
CLIENT
MON AVENIR
110, AVENUE DREWRY
TORONTO, ON
M2M 1C8

DRAWING
ROOM 158 - DEMOLITION PLAN & NOTES
ROOM 158 - NEW PLAN & NOTES

PROJECT NUMBER	DATE
2401	May 15, 2024
SCALE	PLOTTED DATE
AS NOTED	

DRAWING NO.

A105

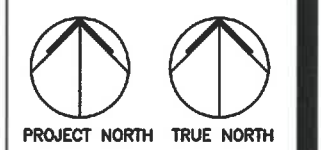


RENOVATION KEY NOTES

SYMBOL	DESCRIPTION
N1	NEW TOILET. REFER TO MECHANICAL DRAWINGS.
N2	NEW METAL SCREEN. REFER TO SPECIFICATIONS.
N3	NEW CHANGE TABLE – REFER TO A301. REFER TO MECHANICAL DRAWINGS.
N4	NEW 4 1/2" G.W.B. PARTITION. (3 5/8" – METAL STUDS FILLED WITH SOUND ATTENUATION INSULATION & 1/2" DRYWALL ON EACH SIDE) WATER RESISTANT DRYWALL TO CORNER ADJACENT TO NEW HAND SINKS
N5	RELOCATED LUMICELL SYSTEM & PLUG ABOVE – REFER TO ELECTRICAL DRAWINGS.
N6	NEW VINYL TILE FLOORING.
N7	NEW LAT CEILING ABOVE.
N8	NEW 2" G.W.B. PARTITION. (1 5/8" METAL STUDS & 1/2" WATER RESISTANCE DRYWALL.)
N9	NEW HAND SINKS – REFER TO MECHANICAL DRAWINGS.
N10	RELOCATED EF-7 ELECTRICAL PANEL – REFER TO ELECTRICAL DRAWINGS.
N11	NEW WINDOW OPENING 48"W x 38" HIGH. REFER TO DETAIL 6/A301. REFER TO ELECTRICAL DRAWINGS FOR SERVICES TO BE RELOCATED.
N12	COTT STORAGE CABINET – REFER TO DRAWING A302.
N13	RELOCATED SOAP DISPENSER.
N14	RELOCATED PAPER TOWEL DISPENSER.
N15	NEW 4 1/2" G.W.B. PARTITION PIPE SPACE.
N16	NEW WOOD DOORS, 2 (18" WIDE X 40" HIGH X 1 3/4" THICKNESS) CLEAR FINISH. REFER TO DOOR SCHEDULE.

DENIS GERALD RIOUX ARCHITECT
63 HEMAN STREET, TORONTO, ONTARIO M8V 1K4

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13C 4W5
WELLAND, ONTARIO
ÉC DU SACRÉ-CŒUR

CLIENT
MON AVENIR
110, AVENUE DREWRY
TORONTO, ON
M2M 1C8

DRAWING
ROOM 155 (WASHROOM) & ROOM 154 (STORAGE) - RENOVATION PLANS & NOTES





PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

DRAWING NO.

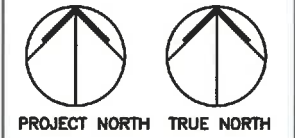
A106

1 ROOM 155 (WASHROOM) + ROOM 154 (STORAGE)- RENOVATION PLAN
SCALE: 1/2"=1'-0"

REFLECTED CEILING LEGEND & ACCESSORIES

SYMBOL	DESCRIPTION
	NEW T-BAR SYSTEM 2' X 4' CEILING SYSTEM AT 8'-0" A.F.F. TO MATCH EXISTING.
	2'-0" X 4'-0" FLUORESCENT LIGHT REFER TO ELECTRICAL DRAWINGS.
	EXISTING SMOKE/HEAT DETECTOR TO BE REINSTALLED. REFER TO ELECTRICAL DRAWINGS.
	NEW POT LIGHT - REFER TO ELECTRICAL DRAWING. .

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 WELLAND, ONTARIO
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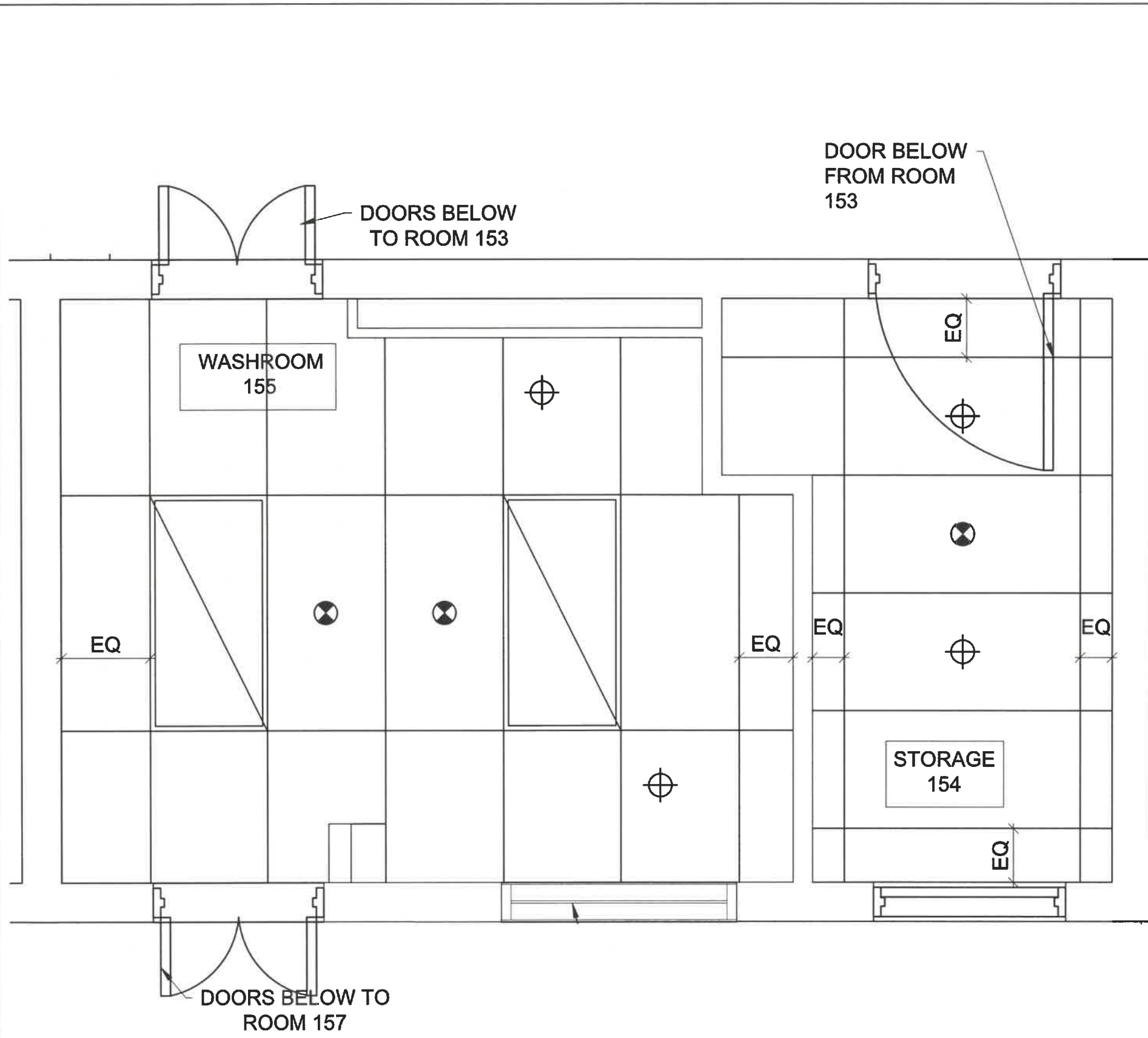
CLIENT
 **MON AVENIR**
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

DRAWING
 ROOM 155 (WASHROOM) &
 ROOM 154 (STORAGE) -
 REFLECTED CEILING PLAN

PROJECT NUMBER 2401	DATE May 15, 2024
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DRAWING NO.

A107



1 ROOM 155 (WASHROOM) + ROOM 154 (STORAGE)- REFLECTED CEILING PLAN
 SCALE: 1/2"=1'-0"

A107

ROOM FINISH SCHEDULE

ROOM No.	NAME	FLOORS			WALLS								CEILING			FIRE SEPAR.	REMARKS
		MAT'L	FINISH	BASE	NORTH		SOUTH		EAST		WEST		MAT'L	FINISH	HEIGHT (mm)		
					MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH					
153	KINDERGARTEN	EX CONC	EX VCT	EX VB	EB	PT	EB	PT NEW	EB		EB		EX	LAT	2400	PAINT NEW WALLS & NEW DOOR FRAMES.	
154	STORAGE ROOM	EX	EX VCT	NEW VB	EB	PT	EB/ GWB	PT	GWB/ EB	PT	GWB	PT	NEW	LAT	2400	PAINT NEW WALLS & NEW DOOR FRAMES.	
155	WASHROOM	CONC	NEW VCT	NEW VB	EB/ GWB	PT/ GT	EB	PT	GWB/ EB	PT	EB	PT	NEW	LAT	2400	CERAMIC TILE ON PART OF NORTH WALLS, REPAINT DOOR FRAME.	
157	KINDERGARTEN	EX CONC	EX VCT	EX VB	EB/ GWB	PT NEW	EB		GWB/ EB	PT NEW	EB		EX	LAT	2400	PAINT NEW WALLS & NEW DOOR FRAMES.	
158	CUBBIES	EX	EX VCT	NEW VB	GWB	PT	GWB	PT	PART GWB	PT	PART GWB	PT	EX	LAT	2400	PAINT NEW WALLS & NEW DOOR FRAMES.	

NOTES:

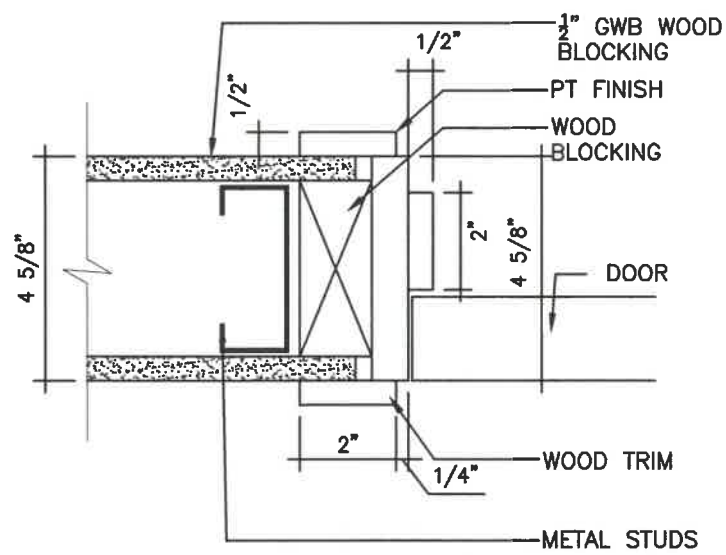
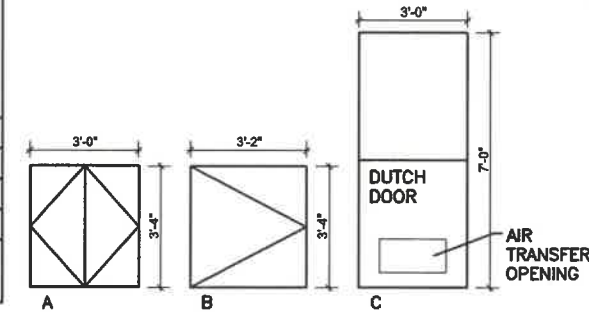
EB - EXISTING BLOCK WALL - MAKE GOOD FOR NEW PAINT FINISH
 VCT - VINYL COMPOSITION TILE
 CONC - CONCRETE BLOCK
 LAT - LAY ACOUSTIC TILE IN T-BAR
 GT - GLAZED TILE
 VB - VINYL BASE
 PT - PAINT
 GWB - GYPSUM WALL BOARD
 EX - EXISTING FINISH OR WALL

DOOR SCHEDULE

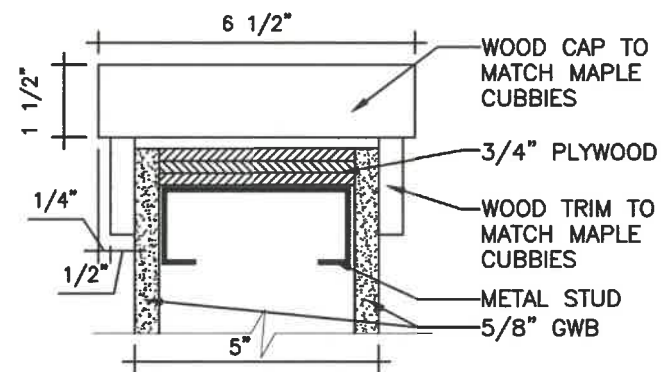
Door No.	DOOR LOCATION	GLAZING/ SCREEN			FRAME			JAMB		HEADER		PULL	DOOR SILENCER	FINGER GUARDS	EXISTING HARDWARE	REMARKS		
		NEW	EXIST	RELOC	WIDTH	HEIGHT	THICK	TYPE	MAT.	FIN.	TYPE						ELEV.	NEW
153A	KINDERGARTEN TO WASHROOM	●			2 x 18"	40"	1 3/4"	A	WD	STN							REFER TO HARDWARE SCHEDULE.	
153B	KINDERGARTEN TO CUBBIES	●			38"	40"	1 3/4"	B	WD	STN		●			1	WD	PT	REFER TO HARDWARE SCHEDULE.
157A	KINDERGARTEN TO WASHROOM	●			2 x 18"	40"	1 3/4"	A	WD	STN		●				HM	PT	REFER TO HARDWARE SCHEDULE.
157B	KINDERGARTEN TO CUBBIES	●			38"	40"	1 3/4"	B	WD	STN		●			1	WD	PT	REFER TO HARDWARE SCHEDULE.
163A	KINDERGARTEN TO OFFICE	●			36"	72"	1 3/4"	C	WD	STN		●				HM	PT	RE-INSTALL EXISTING AIR TRANSFER GRILLE. REFER TO HARDWARE SCHEDULE.

HM - HOLLOW METAL
 WD - WOOD
 PT - PAINT FINISH
 STN - STAIN AND VARNISH FINISH

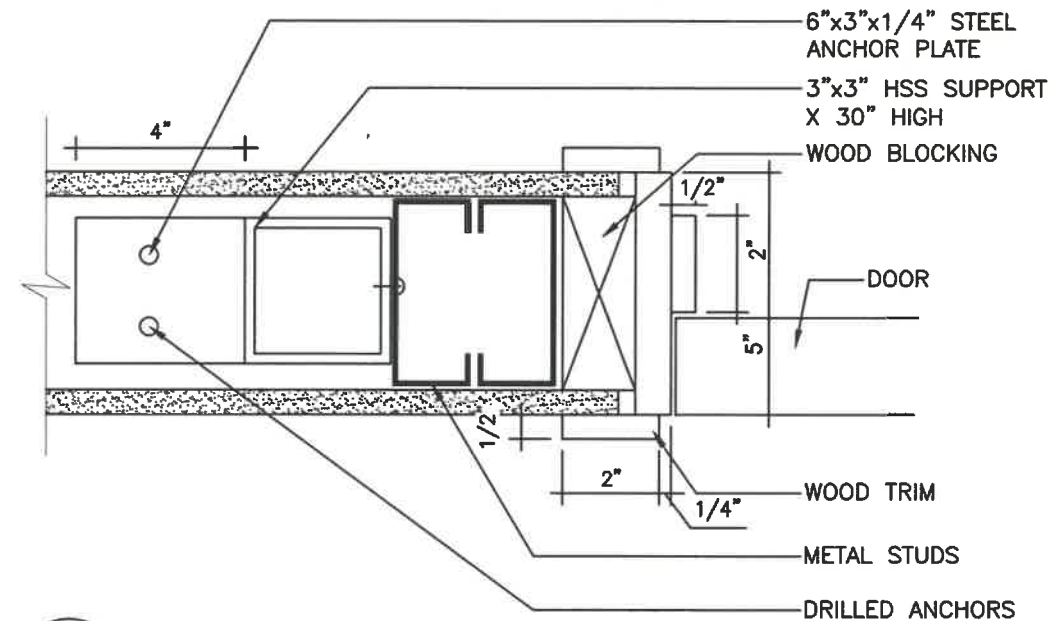
DOOR TYPE



1 DOOR JAMB DETAIL
 A200 SCALE: 3"=1'-0"



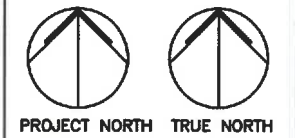
2 LOW WALL CAP SECTION
 A200 SCALE: 3"=1'-0"



3 DOOR JAMB DETAIL
 A200 SCALE: 3"=1'-0"

DENIS GERALD RIOUX
 ARCHITECT
 63 HEMAN STREET, TORONTO, ONTARIO M8V 1K4

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PROJECT
 GARDERIE LA BOÎTE À SOLEIL
 310 FITCH STREET
 L3C 4W5
 WELLSLAND, ONTARIO
 ÉCO DU SACRÉ-CŒUR

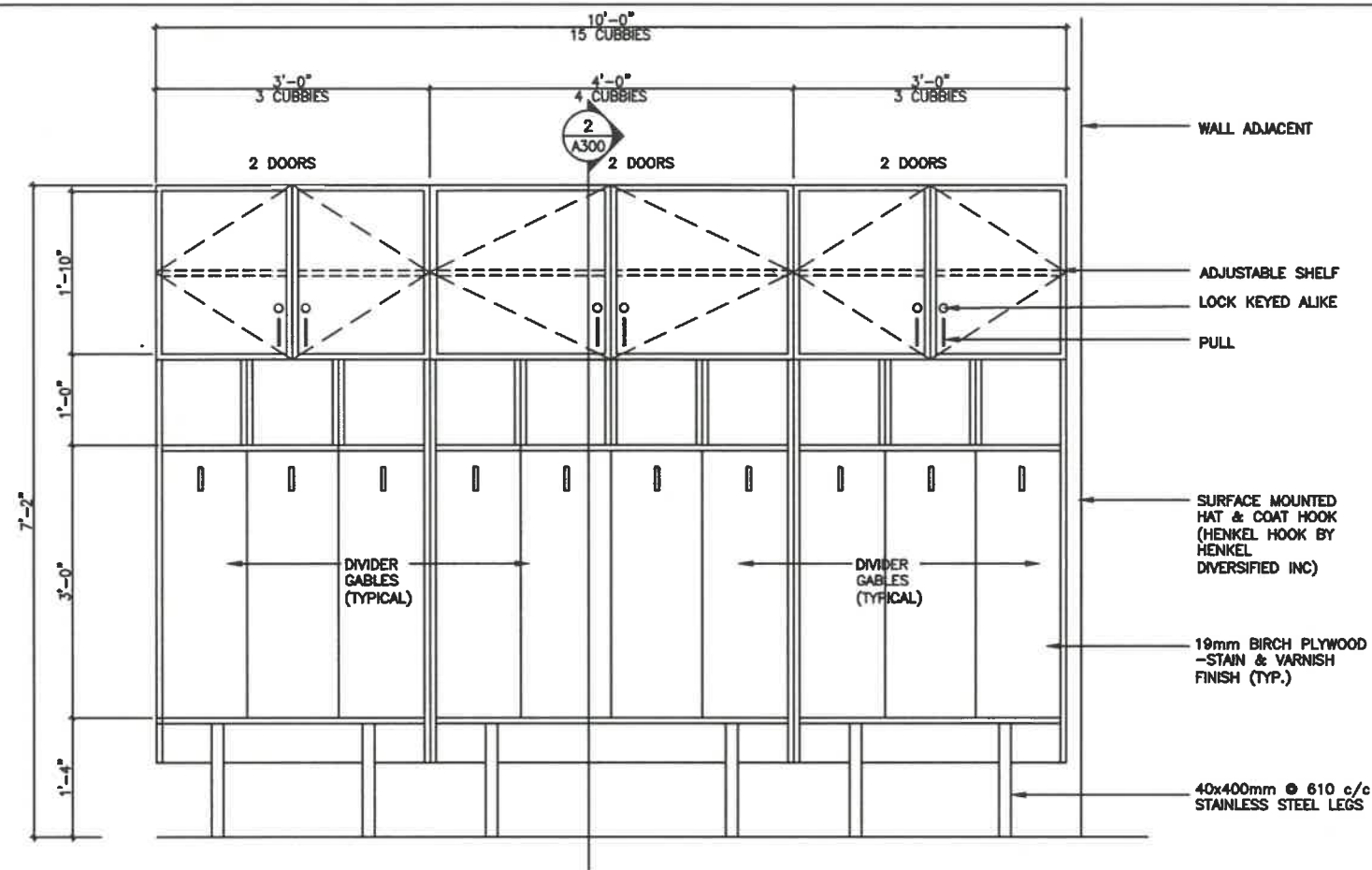
CLIENT
 MON AVENIR
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

DRAWING
 DOOR SCHEDULE & ROOM
 FINISH SCHEDULE

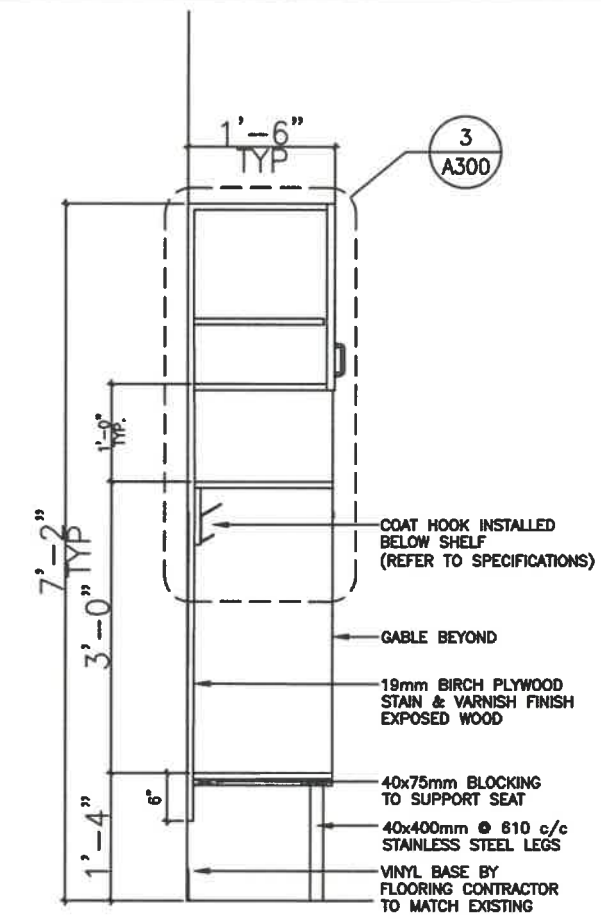
PROJECT NUMBER
 2401
 DATE
 May 15, 2024
 SCALE
 AS NOTED
 PLOTTED DATE

DRAWING NO.

A200

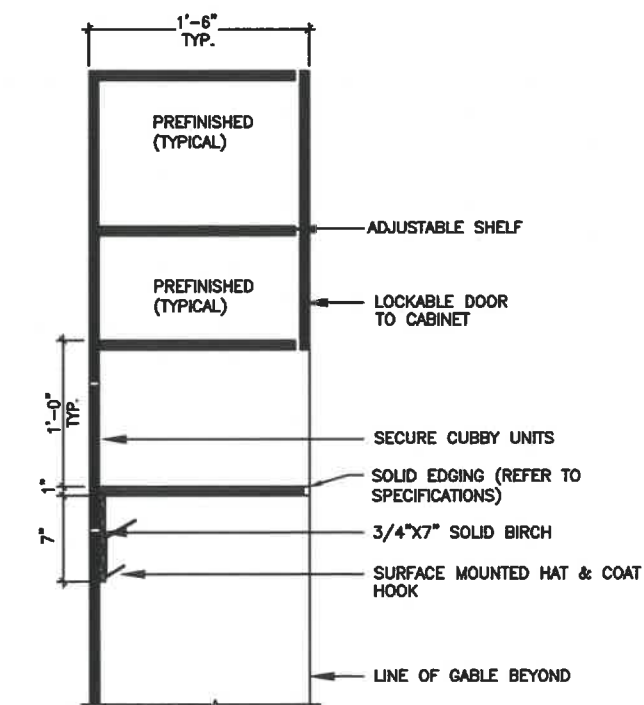


1 **NEW CUBBIES ELEVATION (TYPICAL - REVERSE AS REQUIRED)**
 A300 SCALE: 1/2"=1'-0"



2 **NEW CUBBIES SECTION**
 A300 SCALE: 1/2"=1'-0"

NOTE:
 1. INDIVIDUAL UNITS TO BE SECURED TOGETHER & TO WALL BEHIND UNITS.
 2. COAT HOOK: HENKEL RELEASE HOOK BY HENKEL DIVERSIFIED INC, LONDON, ONTARIO.



3 **NEW CUBBIES DETAIL**
 A300 SCALE: 3/4"=1'-0"

NOTE:
 REFER TO DRAWING A103 FOR LOCATION OF COTT STORAGE IN ROOM 153.
 REFER TO DRAWING A106 FOR LOCATION OF COTT STORAGE IN ROOM 157.

DENIS GERALD RIOUX
 ARCHITECT
 63 HEMAN STREET, TORONTO, ONTARIO M8V 1K4

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PROJECT
 GARDERIE LA BOÎTE À SOLEIL
 310 FITCH STREET
 L3C 4W5
 WELLAND, ONTARIO
 ÉC DU SACRÉ-CŒUR

CLIENT
MON AVENIR
 110, AVENUE DREWRY
 TORONTO, ON
 M2M 1C8

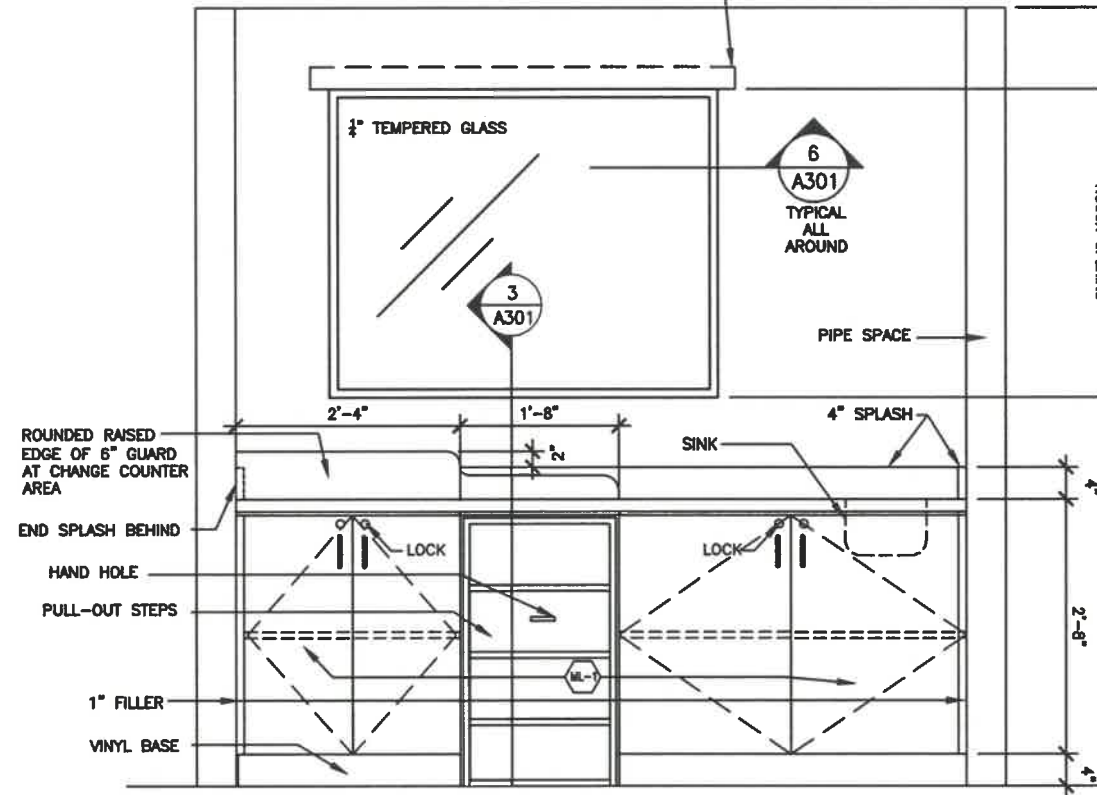
DRAWING
 MILLWORK DETAILS - NEW
 CUBBIES ELEVATION

PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

DRAWING NO.

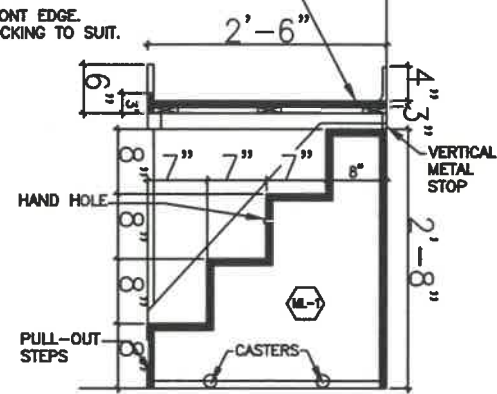
A300

NEW LINTEL - 2-5" X 3 1/2" X 3/8" LLV STEEL ANGLES
MIN. BEARING 8" ON SOLID FILLED MASONRY BLOCK



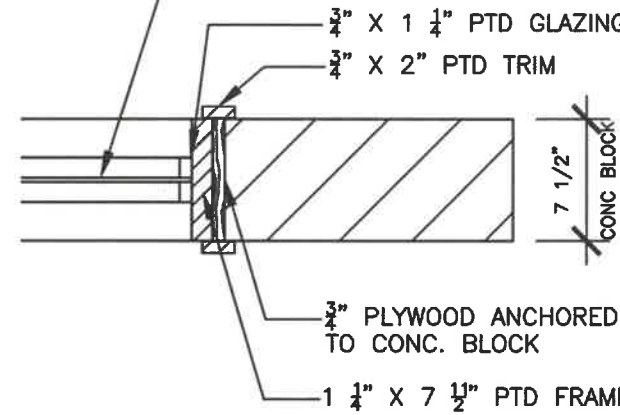
1 CHANGE TABLE ELEVATION
A301 SCALE: 1/2"=1'-0"

(FL-1) P. LAM. COUNTER TOP FULLY BONDED TO 19MM PLYWOOD TOP C/W
ROUND FRONT EDGE. WOOD BLOCKING TO SUIT.

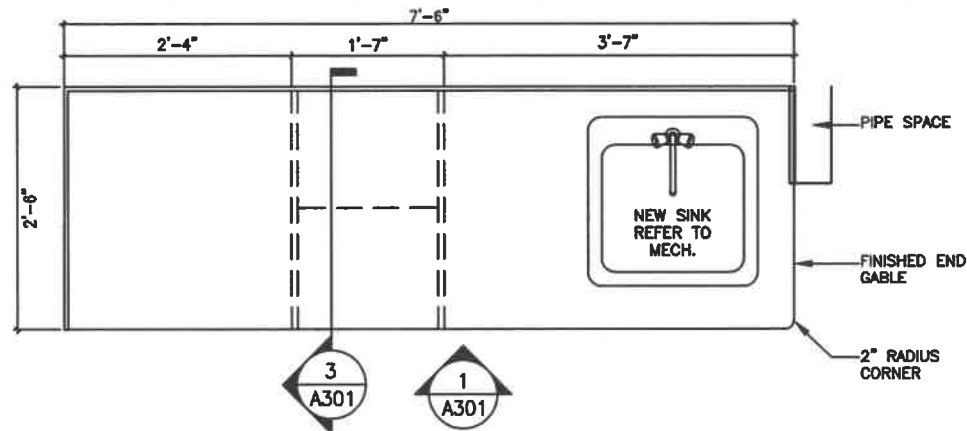


3 CHANGE TABLE SECTION
A301 SCALE: 1/2"=1'-0"

1/4" CLEAR TEMPERED GLASS SET WITH GLAZING TAPE BOTH SIDES

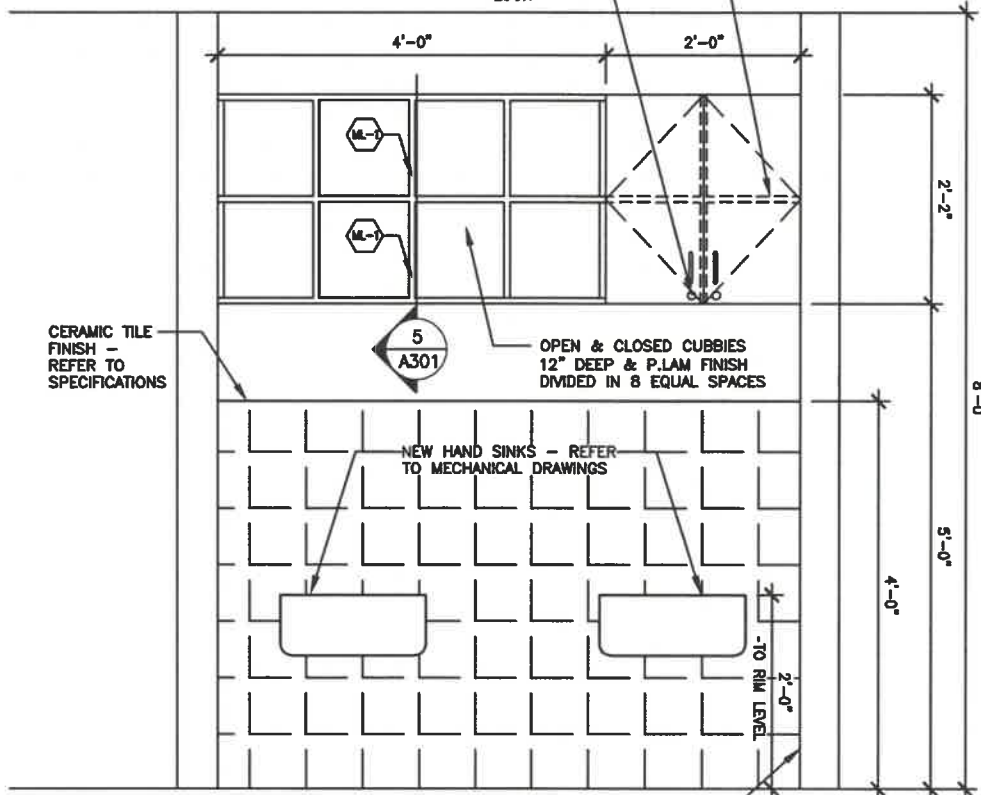


6 WINDOW DETAIL
A301 SCALE: 1"=1'-0"



2 CHANGE TABLE PLAN
A301 SCALE: 1/2"=1'-0"

ADJUSTABLE SHELF LOCK



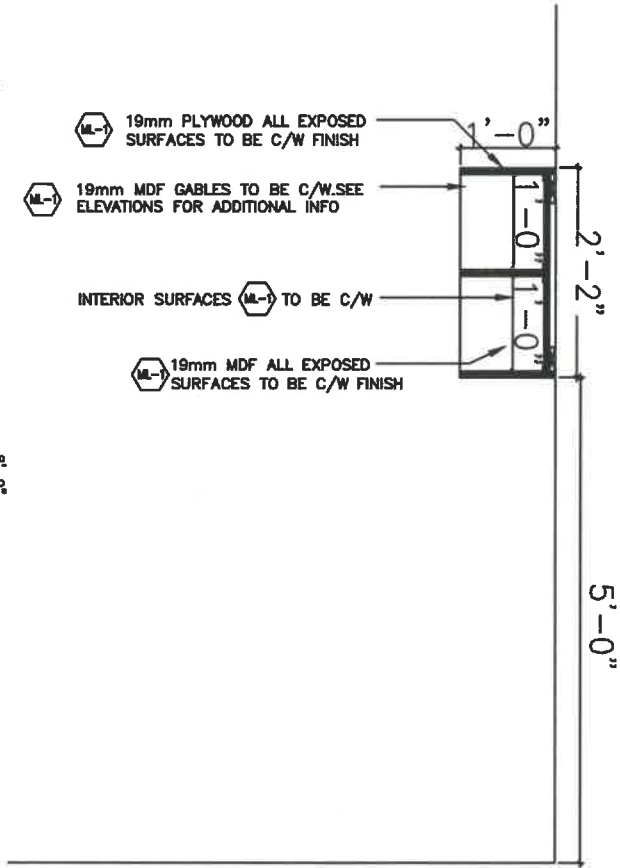
4 CUPBOARD ELEVATION
A301 SCALE: 1/2"=1'-0"

(ML-1) 19mm PLYWOOD ALL EXPOSED SURFACES TO BE C/W FINISH

(ML-1) 19mm MDF GABLES TO BE C/W SEE ELEVATIONS FOR ADDITIONAL INFO

INTERIOR SURFACES (ML-1) TO BE C/W

(ML-1) 19mm MDF ALL EXPOSED SURFACES TO BE C/W FINISH



5 CUPBOARD SECTION
A301 SCALE: 1/2"=1'-0"

NOTE: RETURN TILE FINISH TO CORNER ON END WALL

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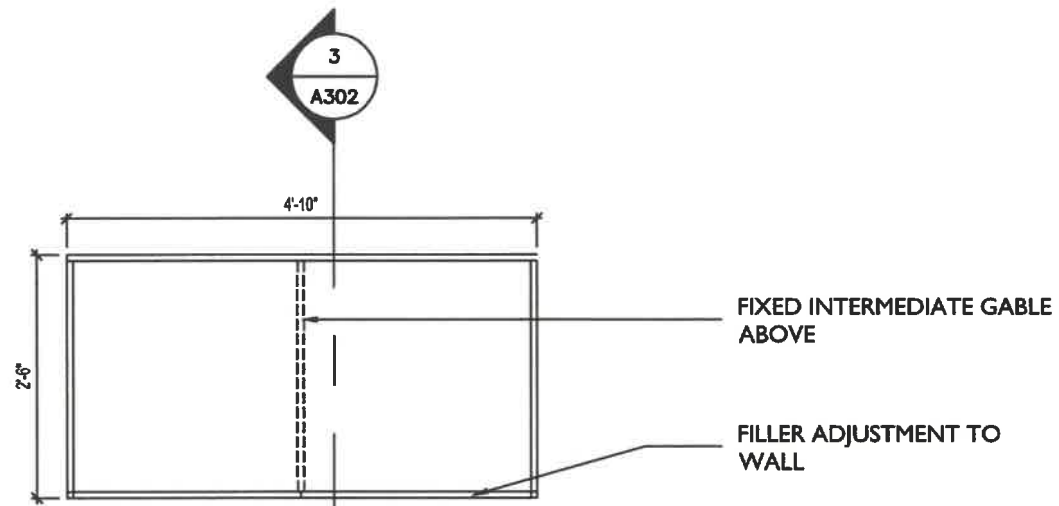
PROJECT
GARDERIE LA BOÎTE À SOLEIL
310 FITCH STREET
L3C 4W5
WELLAND, ONTARIO
ÉC DU SACRÉ-CŒUR

CLIENT
MON AVENIR
110, AVENUE DREWRY
TORONTO, ON
M2M 1C8

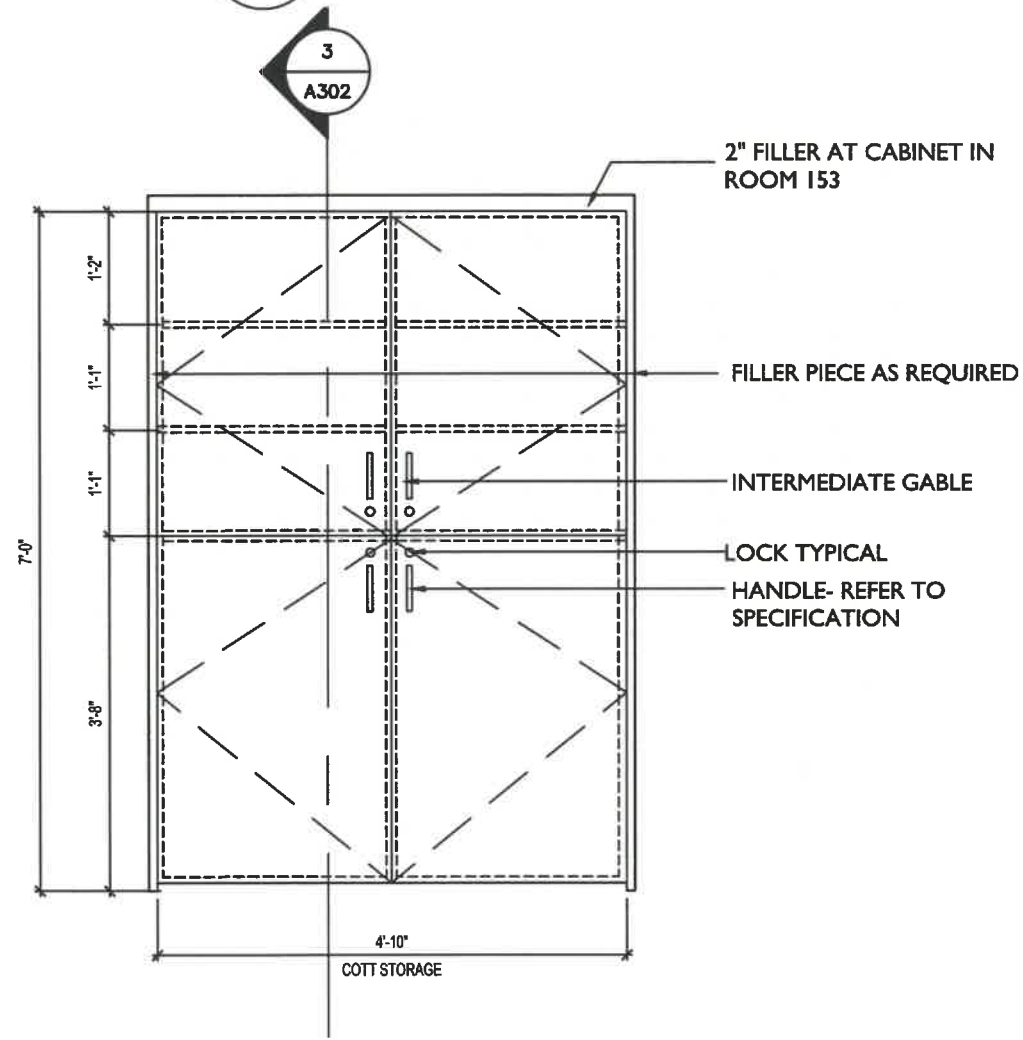
DRAWING
MILLWORK DETAILS - CHANGE TABLE ELEVATION

PROJECT NUMBER	DATE
2401	May 15, 2024
SCALE	PLOTTED DATE
AS NOTED	

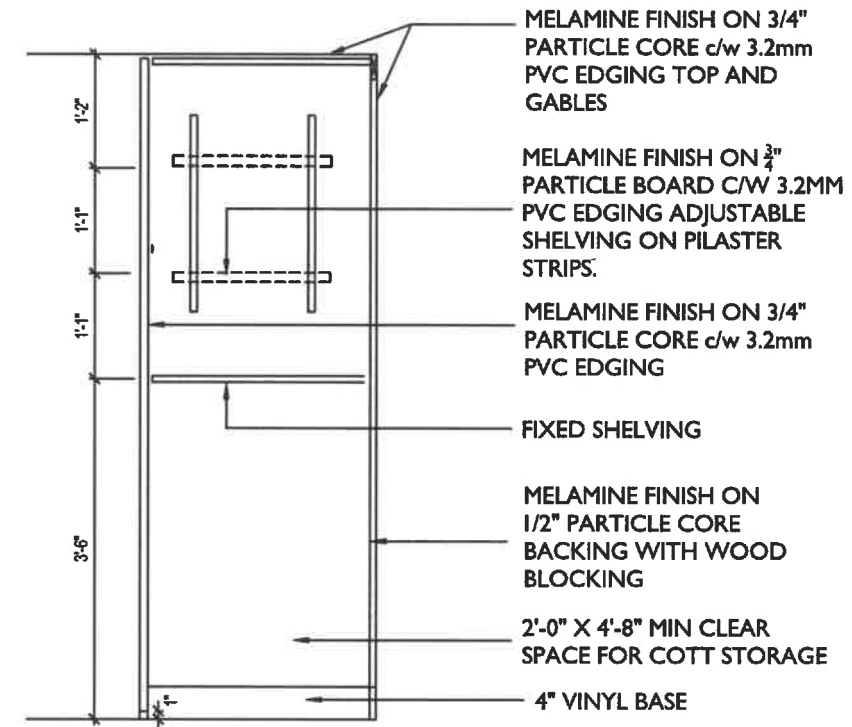
A301



1 PLAN: COTT STORAGE UNIT
A302 SCALE: 1/2"=1'-0"



2 ELEVATION: COTT STORAGE UNIT
A302 SCALE: 1/2"=1'-0"



3 SECTION: COTT STORAGE UNIT
A302 SCALE: 1/2"=1'-0"

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PROJECT
GARDERIE LA BOÎTE À SOLEIL
310 FITCH STREET
L3C 4W5
WELLAND, ONTARIO
ÉC DU SACRÉ-CŒUR

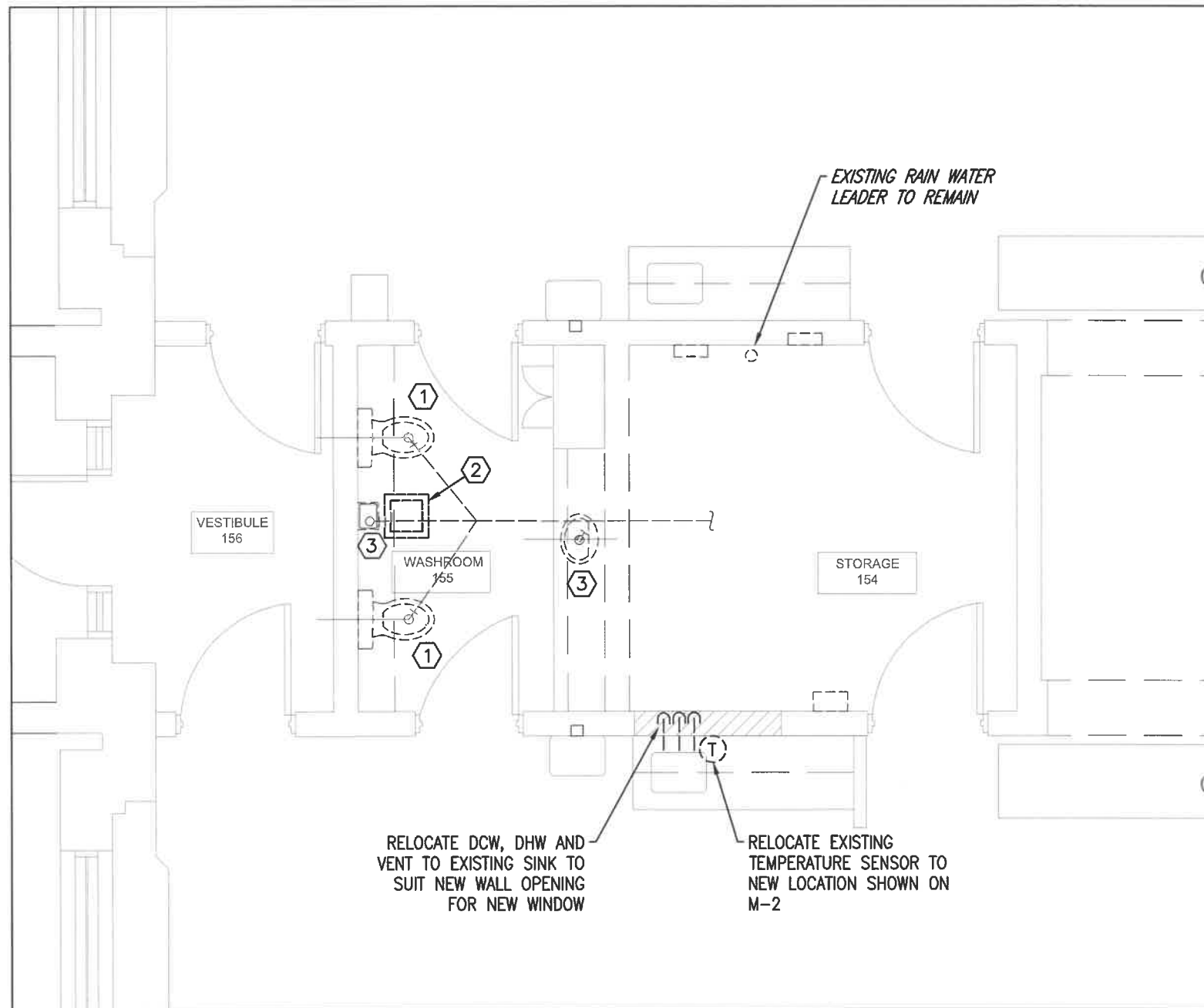
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110, AVENUE DREWRY
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M2M 1C8

DRAWING
MILLWORK DETAILS - COTT STORAGE

PROJECT NUMBER 2401	DATE May 15, 2024
SCALE AS NOTED	PLOTTED DATE

DRAWING NO.

A302



1 PLUMBING AND HVAC - DEMO
SCALE: 1/4" = 1'0"

DRAWING NOTES:

- ① REMOVE EXISTING PLUMBING FIXTURE. CUT BACK AND CAP EXISTING DRAIN/DCW IN PREPARATION FOR NEW INSTALLATION.
- ② REMOVE EXISTING CEILING EXHAUST. CUT BACK DUCTWORK FOR NEW CONNECTION.
- ③ REMOVE EXISTING PLUMBING FIXTURE. CUT BACK AND CAP EXISTING DCW/DHW/VENT TO CEILING AND CAP DRAIN AT SOURCE (FLOOR TO BE CUT/PATCHED AS REQUIRED FOR DEMO AND NEW INSTALLATION).

MECHANICAL LEGEND	
→	PIPE CONTINUATION
⊖	PIPE DOWN
⊕	PIPE UP
Ⓣ	TEMPERATURE SENSOR
R	EQUIPMENT TO BE REMOVED
EF-1	EQUIPMENT TAG
---	EQUIPMENT TO BE REMOVED
⊖	FLOOR DRAIN
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DRAIN

Do not scale drawing.

Contractor must verify all dimensions on the job and report any discrepancies to the engineer before proceeding with the work.

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PROJECT
GARDERIE LA BOITE A SOLEIL
310 FITCH ST.
WELLAND, ON

CLIENT
MonAvenir
CONSEIL SCOLAIRE CATHOLIQUE

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2	15MAY24	TENDER	GL
1	13MAY24	REVIEW	GL

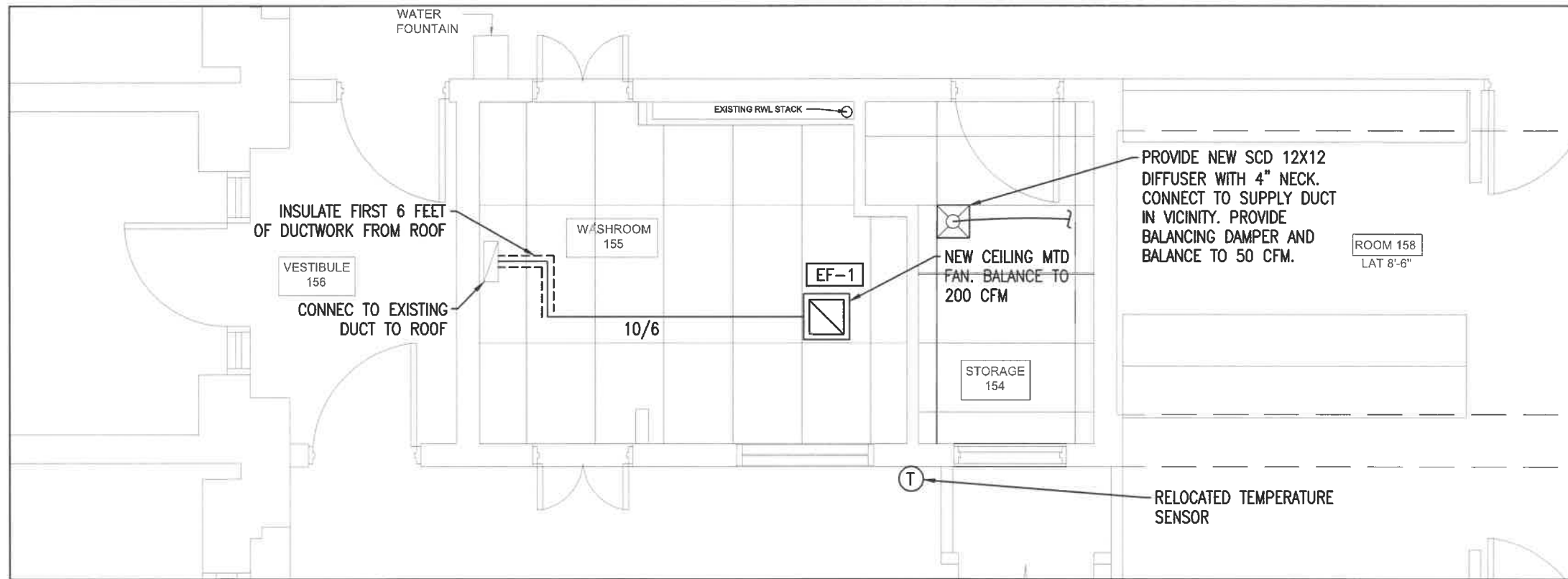


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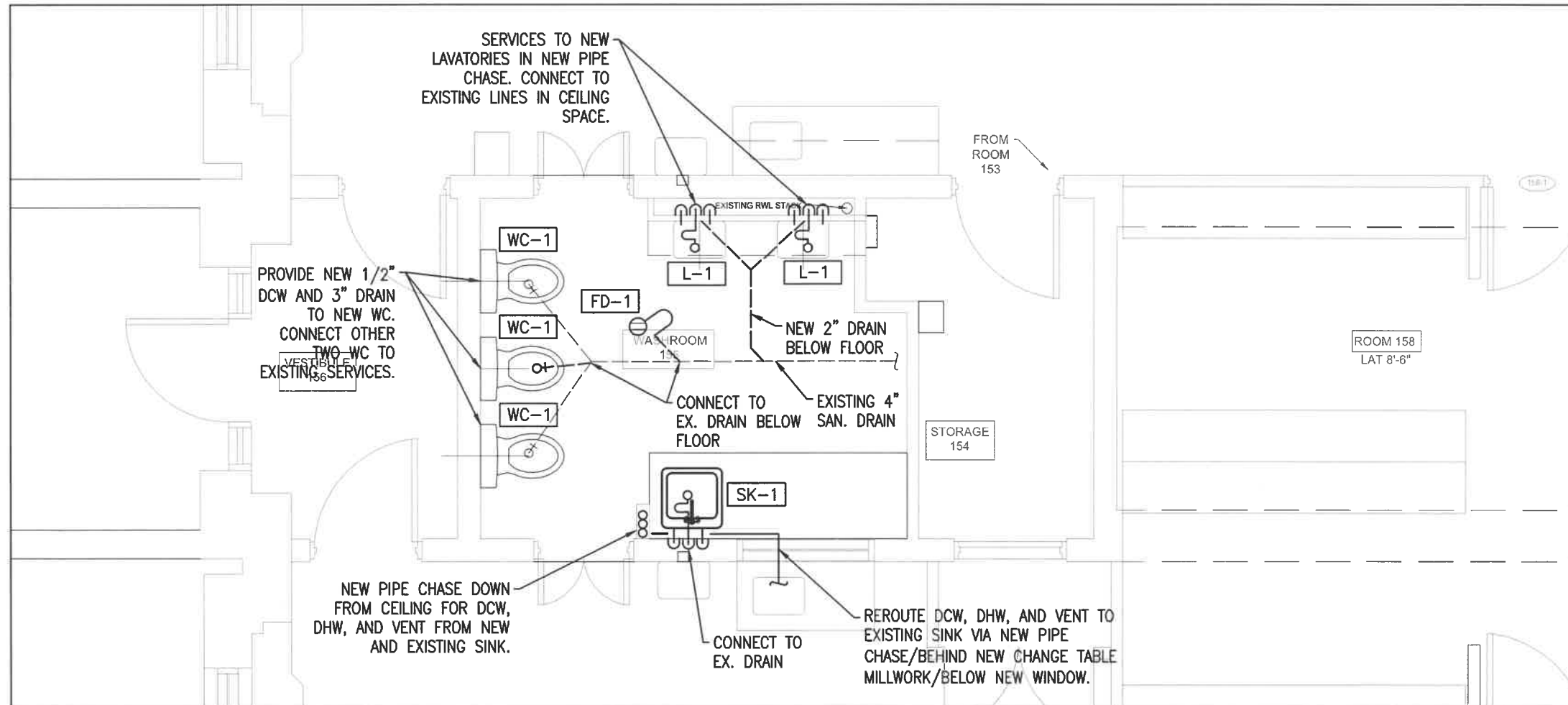
Nortek
Consulting Group

HVAC AND PLUMBING
DEMOLITION

DRAWN/CHK'D: JP/GL PROJECT NO.: 24004 DWG NO.: M-1



1 HVAC - NEW
SCALE: 1/4" = 1'0"



2 PLUMBING - NEW
SCALE: 1/4" = 1'0"

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PROJECT

GARDERIE LA BOITE A SOLEIL
310 FITCH ST.
WELLAND, ON

CLIENT



REVISIONS

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1	13MAY24	REVIEW	GL



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SCALE: N.T.S.

DATE: MAY 2024



HVAC AND PLUMBING
NEW

DRAWN/CHK'D
JP/GL

PROJECT NO.
24004

DWG NO.
M-2

NEW EXHAUST FAN SCHEDULE										
TAG	LOCATION	SERVES	MAKE	MODEL	AIRFLOW (CFM)	E.S.P. (IN. W.C.)	AMPS	WEIGHT (LBS)	ELECTRICAL	NOTES
EF-1	CEILING	WASHROOM 155	SOLER & PALAU	L150E	200	0.1	0.4	19.3	CONNECT TO EXISTING POWER FEED. PROVIDE LOCAL DISCONNECT.	PROVIDE SPEED CONTROL MOUNTED AT FAN. CONTROLLED BY TIMER SWITCH (SUPPLIED BY DIV. 16)
ACCEPTABLE ALTERNATES: GREENHECK, CARNES.										

PLUMBING FIXTURES SCHEDULE										
Tag	Product Category	Manufacturer	Model Number	Description	ROUGH-IN				Faucet/Flush Valve	Accessories
					Drain	Vent	Hot	Cold		
L-1	Basin	American Standard	0356421.020	Vitreous china, Single hole centerset, Wall-hung, White finish, Front overflow	1 1/2"	1 1/4"	1/2"	1/2"	American Standard COLONY®, Manual, Single hole centerset, 7075104.002, 4.5 LPM (1.2 GPM) maximum flowrate	Mixing Valve: Lawler 570-86820 Fixture Drain: McGuire 155A Supply: McGuire LFH165 P-Trap: McGuire 8872C Carrier: Watts WCA-411, Lavatory carrier, For concealed arm carrier
WC-1	Toilet	American Standard	215DB004.020	CADET® PRO™, Two piece, Vitreous china, EverClean® antimicrobial surface, Low consumption 6.0 LPF (1.6 GPF), Fully-glazed 54 mm (2-1/8") trapway, Minimum 254 mm (10") rough-in from wall to the center of waste outlet, White finish, Actuator on left hand, Round front bowl, Tank type	3"	1 1/2"	N/A	1/2"		Seat: Centoco AM820STS-001, For round bowl, With seat cover, Closed front, White finish, Polypropylene Supply: McGuire LFBV172
SK-1	Sink	Franke Commercial	LBS4008P-1-3	Stainless steel, Type 304, 18 gauge, Counter mounted, With faucet ledge, Single compartment, Commercial sinks	1 1/2"	1 1/4"	1/2"	1/2"	American Standard COLONY PRO, Manual, 203 mm (8") centerset, 7074000.002, 5.7 LPM (1.5 GPM) maximum flowrate	Mixing Valve: Lawler 570-86820 Supply: McGuire LFCK165LK P-Trap: McGuire 8912CB

DRAINAGE SCHEDULE							
Tag	Product Category	Manufacturer	Model Number	Description	Body Material	Top/Grate/Stainer/Dome	Outlet Size (inches)
FD-1	Floor Drain	Watts	FD-103P-C-A5-1-7-F4-1	Finished area, Trap primer tapping, Floor drain, Anchor flange, Reversible membrane clamp, Collar with primary and secondary weepholes. Provide series A200 trap seal primer.	Epoxy coated cast iron, Standard body material	Adjustable, 6 mm (1/4") thick top, Round, 127 mm (5") diameter nickel bronze strainer	76 mm (3") pipe size, Push-on outlet

Do not scale drawing.

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PROJECT
GARDERIE LA BOITE A SOLEIL
310 FITCH ST.
WELLAND, ON



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SCHEDULES

DRAWN/CHK'D PROJECT NO. DWG NO.
JP/GL 24004 M-3

MECHANICAL SPECIFICATIONS

1.0 GENERAL INSTRUCTIONS

1. REVIEW WORK AREA AND READ DRAWINGS IN CONJUNCTION WITH ALL DISCIPLINES BEFORE COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND POTENTIAL ISSUES ON WORK-SITE. NO ADDITIONAL PAYMENTS WILL BE MADE RELATED TO CLAIMS FOR ITEMS THAT WOULD HAVE BEEN APPARENT IF THE WORK AREA AND ALL PLANS WERE REVIEWED PRIOR TO PRICING THE WORKS.
2. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR NECESSARY PERMITS PERTAINING TO THE INSTALLATION OF THEIR WORK AND PROVIDE ANY CERTIFICATES AND SIGN-OFFS AS CIRCUMSTANCES REQUIRE.
3. PERFORM ALL MECHANICAL WORK DETAILED ON THESE DRAWINGS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL OPERATING SYSTEM TO THE SATISFACTION OF THE MECHANICAL CONSULTANT.
4. SPECIFIED WORK DESCRIBED OR INDICATED ON DRAWINGS DOES NOT DELEGATE FUNCTION TO ANY SPECIFIED SUBCONTRACTOR OR IDENTIFY ABSOLUTE CONTRACTUAL LIMITS BETWEEN MECHANICAL OR SUBCONTRACTORS.
5. DURING THE PROCESS OF THE WORK EACH CONTRACTOR SHALL KEEP HIS WORK TIDY. THE PREMISES SHALL AT ALL TIMES BE FREE FROM RUBBISH AND SURPLUS MATERIALS, CLEAN DAILY.
6. THIS CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THEIR EMPLOYEES AND SUB-TRADES USE ONLY SAFE PRACTICES AND CONDITIONS, OBSERVE ALL SAFETY REGULATIONS, SECURITY REGULATIONS AND FIRE SAFETY RULES.
7. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, OCCUPATIONAL HEALTH AND SAFETY ACT, AND AUTHORITIES HAVING JURISDICTION. MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN STANDARDS ASSOCIATION, AND AUTHORITIES HAVING JURISDICTION. STANDARDS SET OUT IN DESIGN DRAWINGS SHALL NOT BE REDUCED BY CONFORMANCE TO APPLICABLE CODES AND STANDARDS. MAKE ALL MINOR MODIFICATIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AT NO COST TO THE OWNER.
8. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES TO PROVIDE A COMPLETE WORKING SYSTEM CONSISTENT WITH THE INTENT OF THE DESIGN DRAWINGS. CONTRACTOR SHALL REVIEW DESIGN DRAWINGS, EQUIPMENT SCHEDULES AND SHOP DRAWINGS FOR ERRORS AND OMISSIONS AND ELEMENTS RELATING TO WORKS/ASSEMBLY ON-SITE.
 - 8.1. SHOP DRAWINGS REQUIRED:
 - 8.1.1. PLUMBING FIXTURES
 - 8.1.2. DIFFUSERS
 - 8.1.3. EXHAUST FAN
9. LABEL ALL EQUIPMENT, PIPING, CONDUIT ETC.
10. ACCESS DOORS SHALL BE PROVIDED FOR ALL INACCESSIBLE MECHANICAL EQUIPMENT, VALVES AND SERVICES REQUIRING INSPECTION OR SERVICE. FINISH SHALL SUIT ARCHITECT/DESIGNERS REQUIREMENTS. ACCESS DOORS SHALL BE RECESSED AS REQUIRED TO SUIT WALL FINISH (EG. TILE.) AND SIZED FOR ADEQUATE ACCESS.
11. THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND SECURITY OF MATERIALS AND EQUIPMENT ON THE JOB SITE.
12. DESIGN DRAWINGS ILLUSTRATE THE GENERAL LAYOUT OF THE WORK ONLY. COORDINATE THE INSTALLATION OF WORK WITH OTHER TRADES. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT OF EQUIPMENT AND MATERIALS AND ENSURING THERE ARE NO INTERFERENCES WITH OTHER SYSTEMS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THEIR WORK.
14. EQUIPMENT SHALL BE INSTALLED, STARTED, TESTED, AND ADJUSTED AS PER THE MANUFACTURERS' INSTRUCTIONS, AND AS NECESSARY TO ENSURE OPTIMUM PERFORMANCE. EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR EASY ACCESS AND MAINTENANCE.
15. MATERIALS AND EQUIPMENT SHALL BE NEW AND TOP QUALITY, EXCEPT WHERE NOTED OTHERWISE.
16. THE CONTRACTOR SHALL NOT WELD TO OR MAKE A HOLE IN A STRUCTURAL MEMBER WITHOUT REVIEW FROM THE STRUCTURAL ENGINEER. ATTACHMENTS TO STRUCTURAL MEMBERS SHALL BE MADE WITH SUITABLE CLAMPS OR CLIPS.
17. THE GENERAL CONTRACTOR SHALL PROVIDE ALL OPENINGS AND REINFORCEMENT FRAMING AS REQUIRED.
18. ALL MATERIALS IN CEILING SPACE USED FOR RETURN AIR PLENUM MUST BE PLENUM RATED.
19. CONFIRM FIRE SEPARATIONS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR. ALL PENETRATIONS THROUGH FIRE SEPARATIONS SHALL BE FITTED WITH EXPANSION SLEEVES AND ULC CERTIFIED FIRE STOPPING. ACCEPTABLE MATERIAL: HILTI OR APPROVED EQUIVALENT.
20. THESE DRAWINGS ARE INTENDED TO SERVE AS A GUIDE SHOWING QUANTITIES AND GENERAL ARRANGEMENTS AND ARE NOT NECESSARILY WORKING DRAWINGS FROM WHICH MEASUREMENTS CAN BE TAKEN, EXCEPT WHERE DIMENSION FIGURES ARE SPECIFICALLY SHOWN. INFORMATION INVOLVING ACCURATE MEASUREMENTS OF BUILDING SHALL BE TAKEN FROM BUILDING DRAWING OR FROM THE SITE.
21. MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND ALL CONTRACTORS.

2.0 HVAC

1. NEW MATERIAL AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
2. DUCTS MUST BE SEALED TO PREVENT AIR LEAKAGE. SEAL TO SMACNA AND ASHRAE 90.1 STANDARDS.
3. DUCTS AND HANGERS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, AND THE ASHRAE AND SMACNA STANDARDS.
4. AIR DISTRIBUTION SYSTEMS MUST BE BALANCED TO WITHIN 5% OF THE SPECIFIED VALUES SHOWN ON THE DRAWINGS. THE BALANCING MUST BE PERFORMED BY AN INDEPENDENT FIRM SPECIALIZING IN THIS WORK. THE MECHANICAL CONTRACTOR SHALL PROVIDE AIR BALANCING REPORT PRIOR TO ENGINEER SIGN-OFF.
3. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TRIPLE LOC OR EQUAL, SPIRAL WOUND ALUMINUM. SECURE TO RIGID DUCT USING GEAR CLAMPS. FLEXIBLE DUCTS SERVING DIFFUSERS SHALL BE INSTALLED AS ONE CONTINUOUS PIECE AND SHALL NOT EXCEED 1800mm (6'-0") LENGTHS. FLEXIBLE DUCT SHALL FOLLOW MOST DIRECT ROUTE AND BE INSTALLED WITHOUT KINKS OR SUDDEN CHANGE IN DIRECTION.
4. INSTALLATION OF AIR CONDITIONING EQUIPMENT SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
5. DUCT SIZES ARE SHOWN IN INCHES AND DO NOT INCLUDE FOR INTERNAL INSULATION.
6. PIPES AND EQUIPMENT MUST BE INSTALLED SO AS TO MINIMIZE THE TRANSFER OF VIBRATION TO THE BUILDING AND ALSO TO ALLOW FOR EXPANSION AND CONTRACTION AS NECESSARY.
7. SUITABLE ACCESS DOORS MUST BE PROVIDED WHERE NECESSARY FOR ADJUSTING VALVES, ACCESSING OTHER EQUIPMENT OR CLEAN OUTS, OR FOR INSPECTION OF FIRE DAMPERS.
8. EQUIPMENT, INCLUDING DAMPERS, SHALL BE ASHRAE 90.1 COMPLIANT.
9. ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MAINTAINED. THE CONTRACTOR SHALL LAY OUT THE WORK BASED ON THE MANUFACTURER'S RECOMMENDED CLEARANCES AND ADVISE ENGINEER IMMEDIATELY IF ANY SITE CONDITIONS NEGATIVELY AFFECT THE PROPER INSTALLATION OF ALL EQUIPMENT.
10. ELECTRICAL WIRING AND STARTERS TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE (31V TO 750V) CONTROLS BY THE ELECTRICAL CONTRACTOR. EXTRA-LOW VOLTAGE (UP TO AND INCLUDING 30V) CONTROLS BY THE MECHANICAL CONTRACTOR.
11. THE MECHANICAL CONTRACTOR SHALL INSTALL PIPE WITH SLEEVES IN ORDER TO PREVENT CONTACT WITH CONCRETE, MASONRY OR SIMILAR MATERIALS.
12. ROOF CURBS AND FLASHINGS ARE TO BE SUPPLIED BY THE MECHANICAL CONTRACTOR, INSTALLED BY THE GENERAL CONTRACTOR/ROOFER.
13. THE MECHANICAL CONTRACTOR SHALL PROVIDE SEISMIC BRACING AND RESTRAINT SYSTEMS FOR MECHANICAL EQUIPMENT, DUCTWORK AND PIPING AS REQUIRED BY APPLICABLE LOCAL BUILDING CODES. PROVIDE ENGINEERED, SEALED SHOP DRAWINGS FOR ANY REQUIRED AND INSTALLED SEISMIC BRACING. PROVIDE A SEALED LETTER OF CONFORMANCE UPON COMPLETION.

3.0 INSULATION

1. SHEET METAL INSULATION
- 1.2 PROVIDE INSULATION WITH A MINIMUM THERMAL RESISTANCE OF 0.25 BTU.IN/HR. SQ.FT.F AT 75°F MEAN TEMPERATURE (R-3.5). FIRE AND SMOKE RATING SHALL BE IN ACCORDANCE WITH CAN/ULC-S102 - MAXIMUM FLAME SPREAD RATING 25, MAXIMUM SMOKE DEVELOPED RATING 50.
- 1.3 APPLY VAPOUR BARRIER OVER INSULATION ON COLD TEMPERATURE AND DUCTWORK CONNECTING TO OUTDOORS.
- 1.4 PROVIDE THE FOLLOWING DUCTWORK INSULATION TYPE AS INDICATED IN THE DUCTWORK INSULATION TABLE BELOW.

INSULATION TYPE	THICKNESS	VAPOUR BARRIER
CONCEALED SUPPLY DUCTWORK EXCLUDING FLEXIBLE DUCT AND EXHAUST DUCTWORK WITHIN 6' OF EXTERIOR	D-1 25mm (1")	YES
- 1.4.2 TYPE D1' OWENS CORNING FLEXIBLE DUCT INSULATION, JOHNS MANVILLE MICROLITE TYPE 75 DUCT WRAP, MANSION MICROLITE INSULATION OR KRAFT DUCT WRAP, (3/4LB./CU.FT.) DENSITY WITH FACTORY APPLIED REINFORCED FOIL FACING. ADHERE INSULATION TO DUCT SURFACE WITH CHILDERS CP82 OR BAKELITE 230-39 ADHESIVE, WHICH SHALL BE APPLIED IN STRIPS 6" WIDE AT NOT GREATER THAN 12" CENTERS. BUTT EDGES OF INSULATION TIGHTLY TOGETHER, AND SEAL BREAKS AND JOINTS OF FACING WITH SELF-ADHERING 4" WIDE ALUMINUM TAPE OR ADHERE FOIL WITH CHILDER CP82 OR BAKELITE 230-39 ADHESIVE.
- 1.4.3 TYPE D2' RIGID MINERAL FIBRE BOARD TO ASTM C612 WITH FACTORY APPLIED VAPOUR RETARDER JACKET.
- 1.4.4 DUTY

4.0 PLUMBING SPECIFICATIONS

1. THE PLUMBING CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GENERAL SPECIFICATIONS ABOVE.
2. WORK MUST BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, AND LOCAL CODES.
3. DRAIN LINES ARE TO BE SUBJECT TO A WATER TEST AND WATER LINES ARE TO BE TESTED TO THE SATISFACTION OF THE LOCAL PLUMBING INSPECTOR.
4. FLOOR DRAINS AND HUB DRAINS ARE TO BE TRAP SEAL PRIMED.
5. ALL CLEANOUTS ARE NOT SHOWN. CLEANOUTS ARE TO BE PROVIDED IN ACCORDANCE WITH THE ONTARIO PLUMBING CODE AND REQUIREMENTS INCLUDING AT THE BOTTOM OF STACKS AND ALONG HORIZONTAL RUNS. ENSURE THAT CLEANOUTS ARE INCLUDED AT INTERVALS NECESSARY AND ARE ACCESSIBLE FOR SERVICE.
6. WATER HAMMER ARRESTORS ARE TO BE INSTALLED WHERE NECESSARY TO PREVENT WATER HAMMER IN WATER LINES.
7. CONNECT WATER LINES AT POINTS OF DISTRIBUTION TO NEARBY EQUIPMENT. SIZE WATER LINES TO EACH PIECE OF EQUIPMENT AS SHOWN BY THE PLUMBING EQUIPMENT SCHEDULE.
8. GRADE HORIZONTAL WATER LINES TO ENSURE PROPER DRAINAGE. INSTALL DRAIN VALVES IN ACCESSIBLE LOCATIONS AT LOW POINTS.
9. HANGERS FOR HORIZONTAL PIPING SHALL BE BLACK OR COPPER, AS APPROPRIATE, CLEVIS HANGERS MANUFACTURED BY ANVIL OR MYATT.
10. HANGERS FOR VERTICAL PIPING SHALL BE BLACK OR COPPER, AS APPROPRIATE, RISER CLAMPS MANUFACTURED BY ANVIL OR MYATT.
11. BALL VALVES SHALL BE FULL PORT AND SOLID BALL.
12. SET FIXTURES LEVEL, SQUARE, AND CENTERED WITH RELATION TO FLOORS, WALLS, AND PARTITIONS.
13. SET FIXTURES AT STANDARD HEIGHT FROM FLOOR TO RIM UNLESS DIRECTED OTHERWISE.
14. INSTALL SHUT OFF VALVES ON EACH WATER SUPPLY TO EQUIPMENT.
15. PIPES AND EQUIPMENT MUST BE INSTALLED SO AS TO MINIMIZE THE TRANSFER OF VIBRATION TO THE BUILDING AND ALSO TO ALLOW FOR EXPANSION AND CONTRACTION AS NECESSARY.
16. SUITABLE ACCESS DOORS MUST BE PROVIDED WHERE NECESSARY FOR ADJUSTING VALVES, ACCESSING OTHER EQUIPMENT OR CLEAN OUTS, OR FOR INSPECTION OF FIRE DAMPERS. EQUIPMENT SHALL BE ASHRAE 90.1 COMPLIANT.
18. THE MECHANICAL CONTRACTOR SHALL INSTALL PIPE WITH SLEEVES IN ORDER TO PREVENT CONTACT WITH CONCRETE, MASONRY OR SIMILAR MATERIALS.
19. ALL PENETRATIONS THROUGH FIRE SEPARATIONS SHALL BE FITTED WITH EXPANSION SLEEVES AND ULC CERTIFIED FIRE STOPPING. ACCEPTABLE MATERIAL: HILTI OR APPROVED EQUIVALENT.
20. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE CSA B137.5 OR B137.6 FOR POTABLE WATER USE AND CAN/ULC-S102.2 CERTIFIED FOR FLAME SPREAD AND SMOKE DEVELOPMENT. ACCEPTABLE MATERIAL:
 - 20.1. ANY SIZE: HARD DRAWN TYPE 'L' COPPER PIPE WITH SOLDER JOINT PRESSURE FITTINGS AND LEAD FREE SOLDER;
 - 20.2. 4" AND SMALLER: IPEX AQUA-RISE, IPEX BLUE904 OR APPROVED EQUIVALENT;
21. ALL NON-ACID SANITARY, STORM AND VENT PIPING ABOVE GRADE SHALL BE TO CSA B181.2. ACCEPTABLE MATERIAL:
 - 21.1. 2" OR SMALLER: SHALL BE COPPER DWV PIPE WITH WROUGHT COPPER OR CAST BRASS SOLDER JOINT FITTINGS;
 - 21.2. OVER 2": SHALL BE CAST IRON PIPE AND FITTINGS WITH MECHANICAL JOINTS;
 - 21.3. ANY SIZE: IPEX SYSTEM 15 PVC OR APPROVED EQUIVALENT. IPEX SYSTEM XFR OR APPROVED EQUIVALENT SHALL BE USED IN PLENUMS AS REQUIRED.
27. ALL SANITARY, STORM AND VENT PIPING BELOW GRADE SHALL BE TO CSA B181.1. ACCEPTABLE MATERIAL:
 - 27.1. IPEX SCH 40 PVC OR SDR35 OR APPROVED EQUIVALENT.
28. COORDINATE REQUIREMENTS FOR CHASES WITH GENERAL CONTRACTOR.
29. INSULATE DOMESTIC WATER PIPING AND FITTINGS WITH THICK PREFORMED FIBERGLASS INSULATION WITH AN ASJ VAPOUR BARRIER. JOINTS AND SEAMS MUST BE SEALED. COVER INSULATION WITH 6 OZ. CANVAS WRAP AND FIRE RETARDANT MASTIC OR WITH PREFORMED PVC JACKET. INSULATION SHALL BE BANDED WITH 1/2" ALUMINUM STRAPS. INSULATE VALVES ON ALL PIPING LARGER THAN 1".
 - 29.1. DCW
 - 29.1.1. <2" PIPE = 1" INSULATION
 - 29.1.2. 2" TO 4" = 1-1/2" INSULATION
 - 29.2. DHW 105°F to 140°F
 - 29.2.1. <1" PIPE = 1" INSULATION
 - 29.2.2. 1" TO 1-1/2" = 1" INSULATION
 - 29.2.3. 1-1/2" TO 4" = 1.5" INSULATION
30. PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS.
31. PROVIDE TRAPS/DRAINS AND VENTS FROM INDIVIDUAL FIXTURES SIZED PER OBC. PROVIDE TRAPS/DRAINS AND VENTS FOR MULTIPLE FIXTURES PER DESIGN DRAWINGS. DO NOT REDUCE THE STANDARDS SET BY THE OBC IN ANY CASE.
32. SCAN/X-RAY ALL FLOOR PENETRATION LOCATIONS PRIOR TO CORING.

Do not scale drawing.

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PROJECT

GARDERIE LA BOITE A SOLEIL
310 FITCH ST.
WELLAND, ON

CLIENT



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SPECIFICATIONS

DRAWN/CHK'D PROJECT NO. DWG NO.
JP/GL 24004 M-4

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 CONSEIL SCOLAIRE CATHOLIQUE

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Nortek
 Consulting Group

**POWER AND LIGHTING
 DEMOLITION**

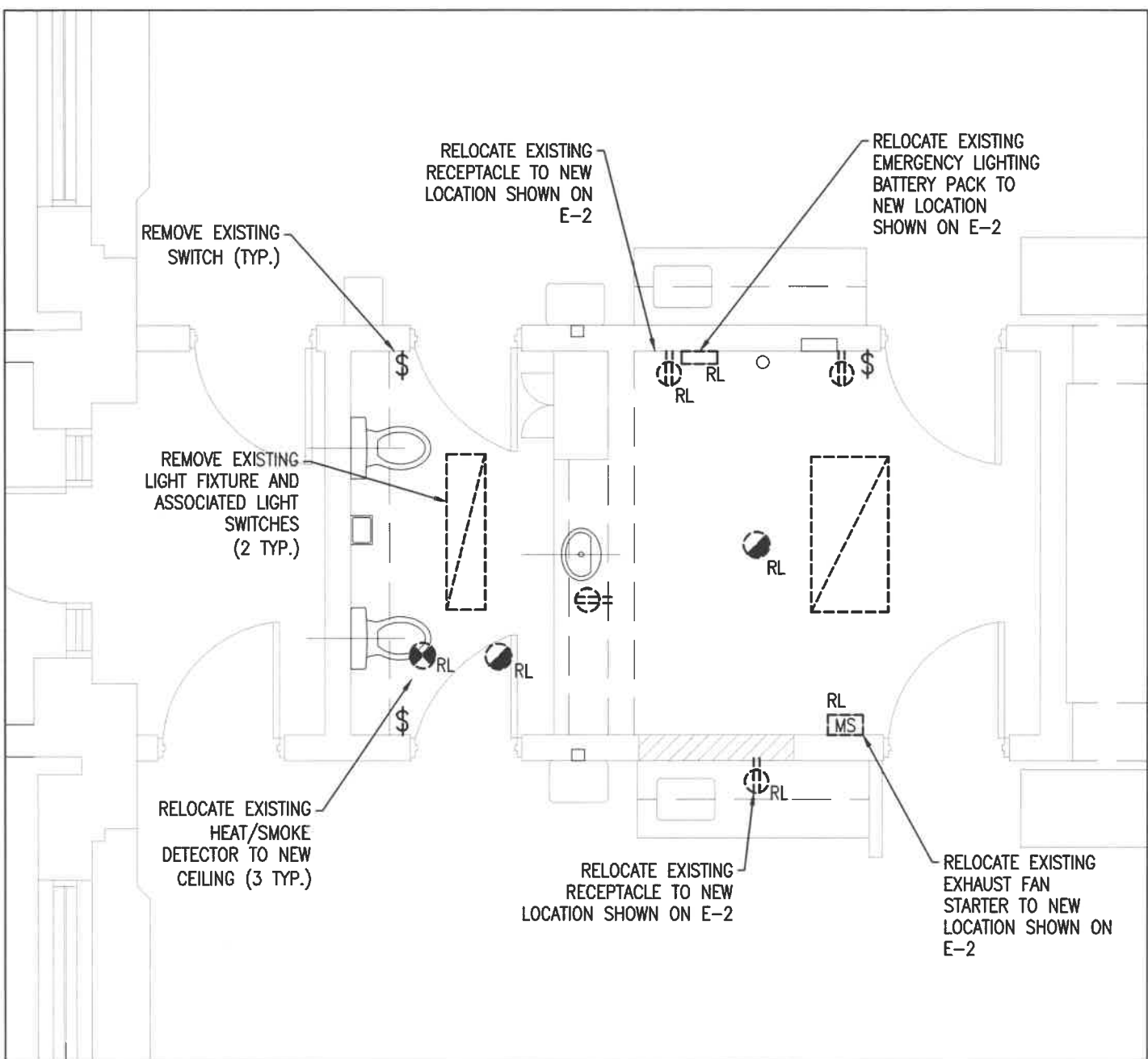
DRAWN/CHK'D: JP/GL PROJECT NO.: 24004 DWG NO.: E-1

ELECTRICAL LEGEND	
\$	LIGHT SWITCH 3 - 3 WAY
\$ _{TS}	FAN TIMER SWITCH
Ⓟ	120V - 15A DUPLEX RECEPTACLE H - HIGH LEVEL, W - WATERPROOF
MS	MOTOR STARTER
Ⓢ	120V SINGLE PHASE DIRECT CONNECTION TO EQUIPMENT

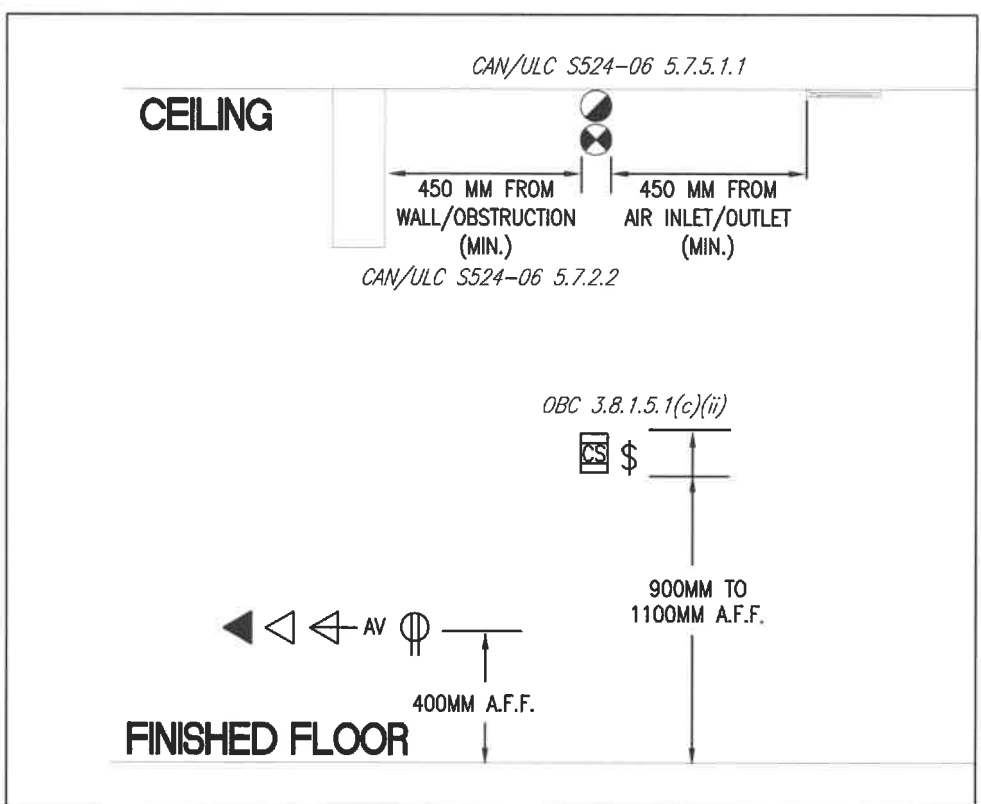
LEGEND NOTES:
 • BOLD LINETYPE INDICATES NEW OR MODIFIED OR REMOVED EQUIPMENT OR WIRING.
 • LIGHT LINETYPE OR 'E' INDICATES EXISTING EQUIPMENT OR WIRING.
 • CROSSED OUT LINETYPE INDICATES REMOVED EQUIPMENT OR WIRING.
 • THIS LEGEND REPRESENTS THE SYMBOLS COMMONLY USED. NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS. SHOULD A SYMBOL BE FOUND ON THE DRAWING AND NOT APPEARING ON THE LEGEND, THE CONTRACTOR SHALL SUBMIT A QUESTION TO HAVE THE SYMBOL CLARIFIED IN AN ADDENDUM PRIOR TO SUBMITTING A BID.

LIGHTING LEGEND	
⊕	RECESSED CEILING FIXTURE, TYPE AS INDICATED, SEE LIGHTING FIXTURE SCHEDULE
▭	1' X 4' SURFACE MOUNTED CEILING FIXTURE TYPE AS INDICATED, SEE LIGHTING FIXTURE SCHEDULE
▭	1' X 4' LAY-IN TROFFER FIXTURE TYPE AS INDICATED, SEE LIGHTING FIXTURE SCHEDULE
▭	2' X 4' LAY-IN TROFFER FIXTURE TYPE AS INDICATED, SEE LIGHTING FIXTURE SCHEDULE
△	VACANCY SENSOR, WALL MOUNT, DUAL TECHNOLOGY TYPE WITH ON/OFF KEYPAD
⊕	EMERGENCY LIGHT - SINGLE HEAD

LIFE SAFETY LEGEND	
⊕	COMBINATION RATE-OF-RISE AND 79°C FIXED TEMPERATURE HEAT DETECTOR
⊕	SMOKE DETECTOR, PHOTOELECTRIC TYPE

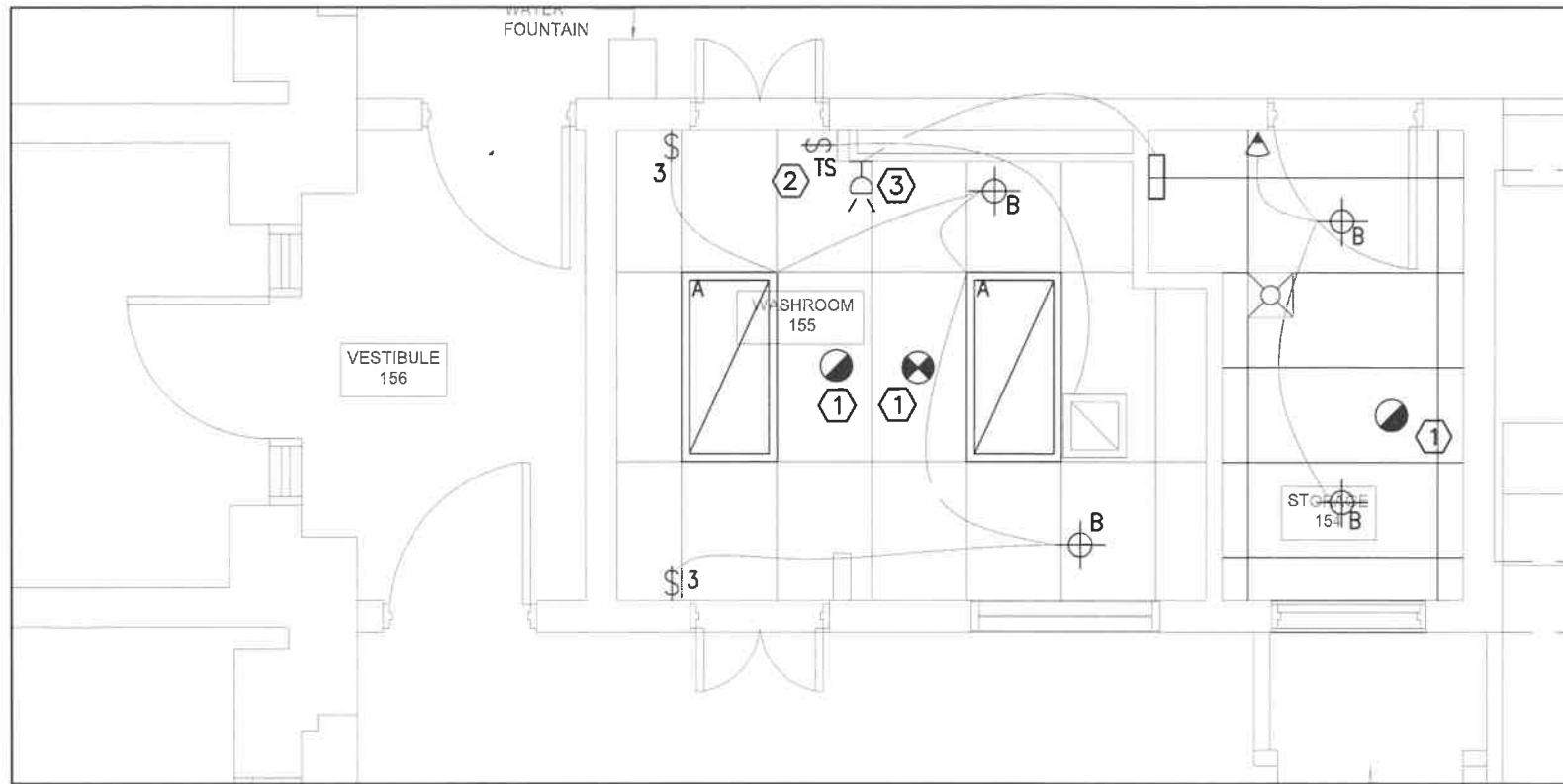


1 ELECTRICAL - DEMO
 SCALE: 1/4" = 1'0"



2 MOUNTING HEIGHTS
 SCALE: N.T.S.

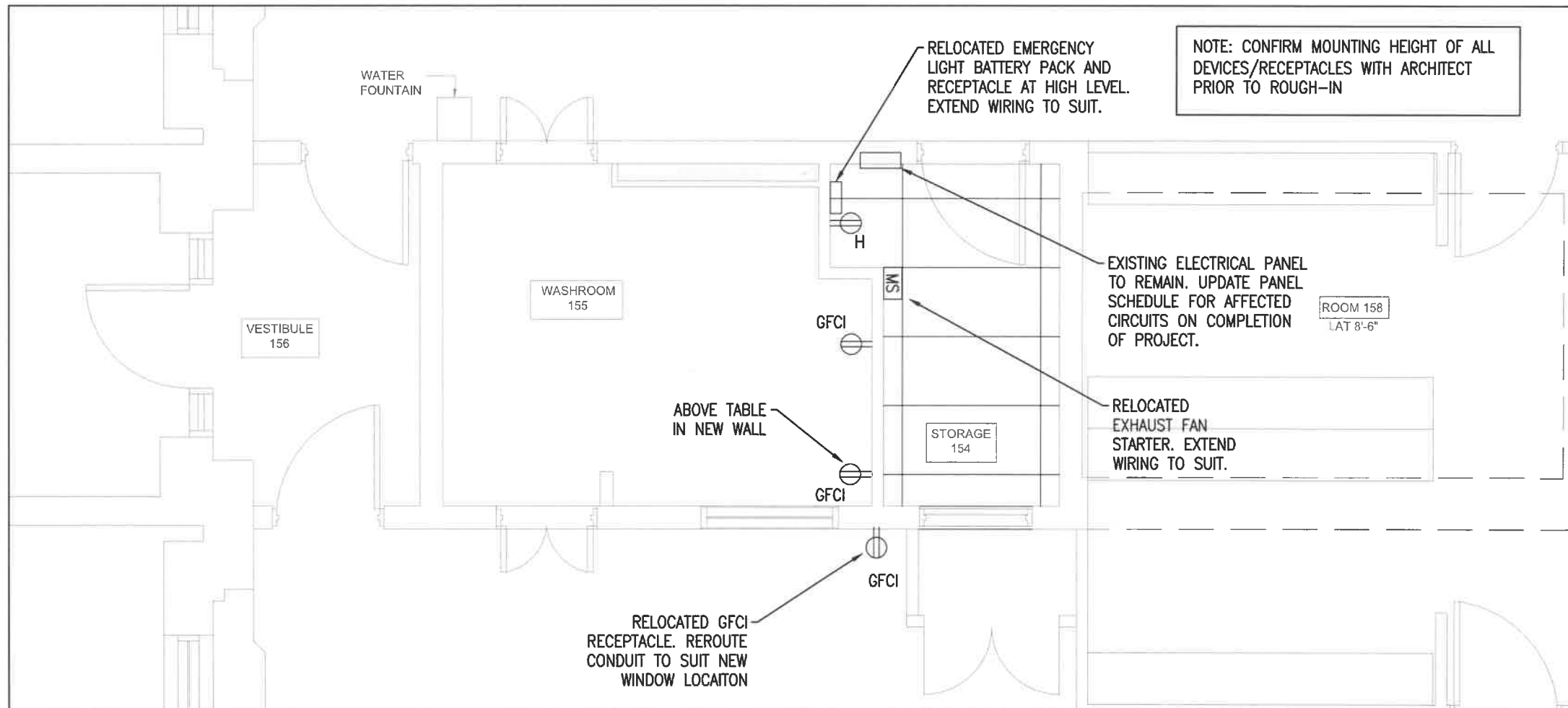
LIGHTING FIXTURE SCHEDULE					
REFERENCE	MANUFACTURER AND MODEL	FIXTURE WATTAGE	LAMP TYPE	MOUNTING	REMARKS
A	COOPER METALUX 24GR-LD5-42-F1-UNV-L935-CD1	35W	LED	RECESSED T-BAR CEILING	120V, 600X1200 MM, 3500K.
B	COOPER HALO COMMERCIAL HC6 HC640D010-HM63040835-61WDC	42W	LED	RECESSED POT LIGHT	120V. PROVIDE LOW VOLTAGE (0-10V) VACANCY WALL SWITCH WHERE INDICATED.



DRAWING NOTES:

- ① REINSTALL EXISTING FIRE ALARM DEVICES IN NEW CEILING. VERIFY ALL RELOCATED DEVICES AND PROVIDE VI REPORT.
- ② EXHAUST FAN TIMER SWITCH EQUAL TO LEVITON DT112-1LW (12/8/4/2 HR. SETTINGS).
- ③ NEW EMERGENCY LIGHTING HEAD TO MATCH EXISTING. CONNECT TO EXISTING BATTERY PACK.

① LIGHTING - NEW
SCALE: 1/4" = 1'0"



② POWER - NEW
SCALE: 1/4" = 1'0"

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POWER AND LIGHTING
NEW

DRAWN/CHK'D PROJECT NO. DWG NO.
JP/GL 24004 E-2

ELECTRICAL SPECIFICATIONS

GENERAL REQUIREMENTS:

1.1. OBTAIN ALL APPROVALS FROM PUBLIC AUTHORITIES HAVING JURISDICTION BEFORE COMMENCING WORK AND PAY ALL INSPECTION FEES AND ALL PERMITS. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE APPLICABLE C.S.A STANDARDS, ONTARIO BUILDING CODE. ELECTRICAL SAFETY CODE, APPLICABLE ULC STANDARDS, AND THE OWNER'S REQUIREMENTS. SUBMIT CERTIFICATE OF INSPECTION AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION.

1.2 DO NOT REDUCE THE STANDARDS ESTABLISHED BY THE DRAWINGS AND SPECIFICATIONS BY APPLYING ANY OF THE CODES REFERRED TO HEREIN.

2. DRAWINGS

2.1 EXAMINE ALL DRAWINGS BEFORE PROCEEDING WITH THE WORK.

2.2 ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS MUST BE REFERRED TO THE CONSULTANT BEFORE ANY AFFECTED WORK IS COMMENCED.

2.3 ELECTRICAL DRAWINGS SHALL NOT BE USED FOR EQUIPMENT LAYOUT. DO NOT SCALE ELECTRICAL DRAWINGS.

2.4 ENSURE THAT ALL ELECTRICAL EQUIPMENT SUPPLIED BY OTHER TRADES IS SUITABLE FOR THE RESPECTIVE VOLTAGE. CONFIRM POWER REQUIREMENTS OF ALL OWNER SUPPLIED EQUIPMENT.

2.5 ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. NO CHASING BLOCKWORK WILL BE ALLOWED. ALLOW TO SCAN THE FLOOR PRIOR TO CUTTING IN LOCATION OF EXISTING SERVICES. PROVIDE DUST CONTROL MEASURES DURING CUTTING.

2.6 COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EQUIPMENT AND MATERIAL SUPPLIED.

2.7 BE RESPONSIBLE FOR AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.

2.8 SUBMIT PDF SHOP DRAWINGS FOR REVIEW AND RECORDS.

2.9 CO-ORDINATE WITH OTHER TRADES IN LAYING OUT OF THE WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHER TRADES. CARRY OUT WORK PROMPTLY WHICH MAY INTERFERE WITH THE WORK SCHEDULE OF OTHER TRADES.

3. BASIC METHODS AND MATERIALS:

3.1 ALL MATERIALS USED SHALL BE SUITABLE FOR THEIR APPLICATION. ALL EXTERIOR FASTENERS AND SUPPORTING MATERIALS FORMING A COMPLETE ELECTRICAL SYSTEM SHALL BE WEATHERPROOF. NUTS, BOLTS, ETC. MATERIAL SHALL BE STAINLESS STEEL OR APPROVED EQUAL

3.2 ALL MATERIALS USED THROUGHOUT SHALL BE NEW, OF BEST QUALITY C.S.A. APPROVED AND OF ONE MANUFACTURER. WHEREVER TRADE NAMES ARE NOT USED TO DESCRIBE MATERIALS, THESE MATERIALS SHALL BE OF BEST AVAILABLE QUALITY AND MANUFACTURE. OBTAIN AND PAY FOR SPECIAL HYDRO INSPECTION OF SPECIFIED NON-C.S.A ELECTRICAL EQUIPMENT.

3.3 PROVIDE ALL CONDUIT, WIRING, BOXES, SWITCHES, OUTLETS, DEVICES, ETC., AS REQUIRED. MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.

3.4 ELECTRICAL BOXES FOR SUPPORT OF EXTERIOR OR WALL LIGHT FIXTURES SHALL BE RIGID TYPE, C/W POINT SUPPORT.

3.5 CLEARLY MARK ALL EXPOSED CONDUIT, PULL BOXES, JUNCTION BOXES, ETC., TO INDICATE THE NATURE OF THE SERVICE.

3.6 PROVIDE LAMICOID LABELS WITH EQUIPMENT IDENTIFICATION, PANEL SOURCE, AND CIRCUIT NUMBER ON ALL NEW PANELS, DISCONNECT SWITCHES, STARTERS, ETC.

3.7 UPDATE ALL AFFECTED PANEL SCHEDULES.

4. CONDUITS:

4.1 ALL CONDUIT SHALL BE RIGID STEEL THICK WALLED OR EMT THINWALL WITH STEEL SET SCREW COUPLINGS AND CONNECTORS WITH INSULATED THROATS UNLESS OTHERWISE NOTED. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED UNLESS OTHERWISE NOTED. EXPOSED CONDUITS AND OTHER RACEWAYS SHALL BE NEAT IN APPEARANCE, RUN PARALLEL TO BUILDING LINES AND CONCENTRIC RIGHT ANGLE BENDS ONLY SHALL BE USED. EXPOSED CONDUITS ARE ALLOWED ONLY IN UTILITY ROOMS. CONDUIT WORK FOR ALL EXTERIOR DEVICES SHALL BE INSTALLED, CONCEALED AND ON THE INTERIOR SIDE OF THE BUILDING ENVELOPE.

4.2 CONNECTORS TO ELECTRICAL PANELS, FIRE ALARM PANEL, SWITCHBOARDS, HEAD-MAIN EQUIPMENT SHALL BE C/W RAIN TIGHT CONNECTORS TO ENSURE EQUIPMENT INTEGRITY IN CASE OF WATER SPILLAGE.

4.3 CONDUITS SHALL NOT BE SUSPENDED FROM THE ROOF DECK. INSTALL ALL CONDUITS AT JOIST LEVEL PROVIDE ALL REQUIRED CONDUIT SUPPORT HARDWARE.

4.4 EXTERIOR CONDUITS TO BE LIQUID TIGHT AND RATED FOR EXTERIOR SERVICE.

5. WIRING:

5.1 ALL WIRING SHALL BE MINIMUM #12 GAUGE COPPER, EXCEPT AS OTHERWISE NOTED. ALL WIRING SHALL BE 600 VOLT TYPE RW90 INSTALLED IN METALLIC CONDUIT, UNLESS OTHERWISE NOTED. AC-90 CABLES MAY BE USED WHERE PERMITTED BY CODE IN CEILING SPACE FOR FINAL CONNECTION TO LIGHT FIXTURE AND FROM CEILING DISTRIBUTION BOXES.

5.2 MINIMUM SIZE WIRING FOR DC WIRING SHALL BE #10 GAUGE. MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 2,C AT ALL FINAL OUTLET LOCATIONS.

5.3 ALL WIRING SHALL BE SIZED COMPLIANT WITH 75-C RATED EQUIPMENT, SUBJECT TO DERATING AS PER TABLES SA, SB, SC & 50.

5.4 UNDERGROUND WIRING FEEDERS AND BRANCH WIRES SHALL BE RWU RATED FOR DIRECT BURIAL INSTALLED IN SPECIFIED UNDERGROUND CONDUITS AS NOTED ON THE ELECTRICAL DRAWINGS.

6. GROUNDING:

6.1 PROVIDE GROUND WIRES WITH ALL FEEDERS AND CIRCUITS IN ACCORDANCE WITH APPLICABLE CODES AND HYDRO REQUIREMENTS.

6.2 PROVIDE ALL REQUIRED BONDING AS REQUIRED BY CODE.

7. MECHANICAL TRADES WIRING:

7.1 PROVIDE ALL CONDUIT. WIRING, SPLITTERS, OUTLET BOXES AND DISCONNECT SWITCHES AS SHOWN. ALL MOTORS, STARTERS. AND CONTROL WIRING BELOW 120V PROVIDED UNDER DIVISION 15. DIVISION 16 SHALL INSTALL ALL LINE VOLTAGE STARTERS, THERMOSTATS, AND WIRING. PROVIDE ALL LINE VOLTAGE WIRING AS REQUIRED.

7.2 CONTRACTOR TO ENSURE THAT THE ELECTRICAL SYSTEMS ARE FUNCTIONAL AND IN GOOD WORKING ORDER AS PER THE ELECTRICAL SPECIFICATIONS AND TO THE INTENT OF THE ELECTRICAL DRAWINGS.

8. COMPLETION OF CONTRACT

8.1 ON COMPLETION OF WORK, THIS CONTRACTOR SHALL CONTACT THE ENGINEER (GINETTE LAMOUREUX 647-444-5041) TO PERFORM A FINAL INSPECTION. WHEN CEILING TILES HAVE BEEN INSTALLED IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE PORTIONS FOR INSPECTION.

8.2 ONE YEAR WRITTEN WARRANTY SHALL BE PROVIDED COVERING ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

8.3 ALL EQUIPMENT MUST BE CLEANED, TESTED, AND COMMISSIONED PRIOR TO SUBSTANTIAL COMPLETION BEING GRANTED.

9. CLOSE-OUTS

9.1 ALL CHANGES AND DEVIATIONS FROM DRAWINGS SHALL BE RECORDED ON A SET OF WHITE PRINTS AT THE SITE DESIGNATED FOR THIS PURPOSE.

9.2 PROVIDE COPY OF THESE MARK-UPS TO ENGINEER ON COMPLETION OF THE PROJECT FOR UPDATE OF CAD DRAWINGS.

9.3 OPERATING AND MAINTENANCE MANUALS CONTAINING APPROVED SHOP DRAWINGS, ESA CERTIFICATE, EQUIPMENT DATA SHEETS, WRITTEN WARRANTY, OPERATING INSTRUCTIONS AND MAINTENANCE PROCEDURES SHALL BE SUBMITTED TO CONSULTANT FOR REVIEW. MANUALS SHALL BE SEPARATED WITH DIVIDERS IN APPROPRIATE SECTIONS. MAKE ALL CORRECTIONS REQUESTED BY CONSULTANT AND RESUBMIT FOR REVIEW.

9.4 THREE (3) COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED TO THE OWNER ONCE APPROVED BY THE CONSULTANT.

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PROJECT

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310 FITCH ST.
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SPECIFICATIONS

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