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Architectural Addendum No. 01

date June 19, 2026

project University of Toronto – Dentistry Clinic 2 Renovation

project/file no. 24082 (UofT Project Number: P065-21-050)

It is the intent of this addendum that the revisions generally described herein shall be understood to affect all pertinent contract documents including drawings, details, specifications, and schedules. It is agreed that the attached descriptions and detailed sketches represent a guide to scope changes and are not intended to comprise an exhaustive list. It is the responsibility of the Contractor to ensure complete coordination of all sub-trades whether directly or indirectly affected by these revisions.

A REVISIONS TO PROJECT MANUAL

Make the following amendments and additions to the Specifications and include this cost in the Contract Price. These revisions have been ~~striked out~~ for removed items and ***bolded and italicized*** for added items in the attached documents.

A.1. Section 00 01 10 – Table of Contents (Volume 1)

A.1.1. **REVISE** table of contents as indicated.

A.2. Section 07 50 00 – Roof Repair Work

A.2.1. **REVISE** roof specifications to reflect existing Siplast LWIC roof system as indicated.

A.3. Section 08 71 00 – Door Hardware

A.3.1. **ADD** Press to Reset button to Hardware Group 12 and 22.

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A.4. Section 08 80 00 – Glazing

A.4.1. **REVISE** GF-4 type glass film from frosted to opaque.

A.5. Section 09 66 24 – Precast Terrazzo

A.5.1. **REVISE** specifications regarding non-slip nosings as indicated.

A.6. Section 09 81 00 – Acoustical Materials

A.6.1. **ADD** Section 09 81 00 for vibration isolation springs at rooftop air handling units.

A.7. Section 10 28 13 – Washroom Accessories

A.7.1. **REVISE** collapsible safety coat hook tag from CH to HK-1.

A.8. Section 10 80 00 – Miscellaneous Specialties

A.8.1. **ADD** specifications for new coat hooks: HK-1A, HK-2, and HK-3 as indicated.

B REVISIONS TO DRAWINGS

Make the following amendments and additions to the Drawings and include this cost in the Contract Price. These revisions have been clouded on attached drawings.

Revisions have been made on the following Architectural sheets below. Revisions are clouded and tagged on each sheet.

B1. Sheet A0001 – General Info & Graphic Conventions

B1.1. Typical Abbreviations – **REVISE** abbreviation of coat hook from CH to HK.

B1.2. Typical Abbreviations – **REVISE** abbreviation of push to lock from PTL to PL.

B1.3. Typical Abbreviations – **REVISE** abbreviation of privacy lockset from PL to PLS.

B1.4. Typical Abbreviations – **REVISE** meaning of PR from perimeter radiator to press to reset.

B2. Sheet A1502 – Level 1 Reflected Ceiling Plan

B2.1. Drawing 1/A1502 – **REVISE** location of return grille in Corridor (134K).

B3. Sheet A1503 – Level 2 Reflected Ceiling Plan

B3.1. Drawing 1/A1503 – **REMOVE** duplicate exhaust grilles in WC (210B) and BF WC (210A).

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B3.2. Drawing 1/A1503 – **REVISE** location of occupancy sensors in Clinic 2 (207) between Std Op (OP-03) and Std Op (OP-04), and between Std Op (OP-05) and Std Op (OP-06).

B4. Sheet A1701 – FF&E Plans – Level 1 & Patient Lobby

B4.1. Drawing 1/A1701 – **REMOVE** TV monitor on east wall of Multifunctional Training Rm (134).

B4.2. Drawing 2/A1701 – **REMOVE** TV monitors on west wall of Waiting Room/Lobby (M200).

B5. Sheet A1702 – FF&E Plan – Level 2

B5.1. Drawing 1/A1702 – **REMOVE** TV monitors in Waiting Area (227).

B5.2. Drawing 1/A1702 – **ADD** TV monitor on north wall of Waiting Room/Lobby (M200).

B5.3. Drawing 1/A1702 – **REVISE** graphics of TV monitors to indicate owner provided equipment.

B5.4. Drawing 1/A1702 – **REVISE** location of TV monitor in the Waiting Area (219B) from west wall to north wall.

B5.5. Drawing 1/A1702 – **REMOVE** TV monitors from all Enclosed Op, AODA Op (207J), and Electrical (207H). TV monitors in all Special Needs Op to remain.

B5.6. Drawing 1/A1702 – **REMOVE** HOOK tag from all coat hooks in Std Ops.

B5.7. Drawing 4/A1702 – **REMOVE** TV monitor in AODA Op (207J).

B5.8. Drawing 5/A1702 – **REVISE** graphics of TV monitor in typical Special Needs Op to indicate owner provided equipment.

B6. Sheet A4401 – Enlarged Views – Plans, Elevations

B6.1. Drawing 1/A4401 – **ADD** HK-2 tags to coat hooks in typical Std Ops bay for clarity.

B6.2. Drawing 2/A4401 – **REVISE** coat hook tags to HK-2 in typical Std Ops bay for clarity.

B6.3. Drawing 2/A4401 – **REVISE** location of coat hooks in typical Std Ops bay.

B6.4. Drawing 3/A4401 – **ADD** HK-2 tag to coat hook in Std Op (OP-55) for clarity.

B6.5. Drawing 3/A4401 – **ADD** HK-3 lead vest hook to north wall of Std Op (OP-55).

B6.6. Drawing 6/A4401 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to typical Special Needs Op.

B6.7. Drawing 8/A4401 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to typical Special Needs Op.

B6.8. Drawing 10/A4401 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to south wall of AODA Op (207J).

B6.9. Drawing 10/A4401 – **REMOVE** TV monitor from west wall of AODA Op (207J).

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B6.10. Drawing 12/A4401 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to south wall of AODA Op (207J).

B6.11. Drawing 13/A4401 – **ADD** HK-2 coat hook and HK-3 lead vest hook to typical Enclosed Op.

B6.12. Drawing 13/A4401 – **REMOVE** TV monitor from typical Enclosed Op.

B6.13. Drawing 15/A4401 – **ADD** HK-2 coat hook and HK-3 lead vest hook to typical Enclosed Op.

B7. Sheet A4402 – Enlarged Views – Plans, Elevations

B7.1. Drawing 1/A4402 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to west wall of Imaging Rm (207X).

B7.2. Drawing 5/A4402 – **REVISE** location of receptacles on east wall of CAD/CAM (208)

B7.3. Drawing 10/A4402 – **REVISE** location of receptacles on west wall of Imaging Rm (207X) and west corridor of Clinic 2 (207)

B7.4. Drawing 10/A4402 – **REVISE** location of thermostat and RAD-3 remote switch on west corridor of Clinic 2 (207)

B7.5. Drawing 12/A4402 – **ADD** HK-1A collapsible coat hook and HK-3 lead vest hook to Imaging Rm (226B)

B7.6. Drawing 13/A4402 – **ADD** HK-3 lead vest hook to east wall of Imaging Rm (226B)

B8. Sheet A4410 – Interior Elevations – Patient Lobby

B8.1. Drawing 1/A4410 – **REMOVE** TV monitors from west wall of Waiting Room/Lobby (M200).

B8.2. Drawing 1/A4410 – **ADD** TV monitor to north wall of Waiting Room/Lobby (M200).

B8.3. Drawing 1/A4410 – **REMOVE** duplicate devices on north wall of Waiting Room/Lobby (M200).

B8.4. Drawing 2/A4410 – **ADD** reveals to edges of wood ceiling panels in Waiting Room/Lobby (M200).

B8.5. Drawing 4/A4410 – **REMOVE** TV monitors in Waiting Area (227).

B9. Sheet A4420 – Washroom & Corridor Plans, Elevations & Sections

B9.1. Drawing 1/A4420 – **REVISE** collapsible safety coat hook tag from CH to HK-1.

B9.2. Drawing 3/A4420 – **REVISE** collapsible safety coat hook tag from CH to HK-1.

B9.3. Drawing 5/A4420 – **ADD** PR press to reset button to south wall of Universal WC (227W).

B9.4. Drawing 6/A4420 – **ADD** HK-1 collapsible coat hook to south wall of BF WC (210A).

B9.5. Drawing 9/A4420 – **ADD** HK-1 collapsible coat hook to south wall of BF WC (210A).

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B10. Sheet A5201 – Roof Details

B10.1. Drawing 2/A5201 – **REVISE** roof details to reflect existing Siplast LWIC roof system.

B10.2. Drawing 3/A5201 – **REVISE** roof details to reflect existing Siplast LWIC roof system.

B10.3. Drawing 4/A5201 – **REVISE** roof details to reflect existing Siplast LWIC roof system.

B11. Sheet A5204 – Interior Details – Plans & Sections

B11.1. Drawing 1/A5204 – **REVISE** edge detail of WDP-1 wood ceiling panels in Waiting Room/Lobby (M200).

B11.2. Drawing 3/A5204 – **REVISE** edge detail of WDP-1 wood ceiling panels in Waiting Room/Lobby (M200).

B11.3. Drawing 4/A5204 – **REVISE** edge detail of WDP-1 wood ceiling panels in Waiting Room/Lobby (M200).

B11.4. Drawing 5/A5204 – **REVISE** edge detail of WDP-1 wood ceiling panels in Waiting Room/Lobby (M200).

B11.5. Drawing 6/A5204 – **REVISE** edge detail of WDP-1 wood ceiling panels in Waiting Room/Lobby (M200).

B12. Sheet A6102 – Schedule – Doors and Screens

B12.1. Door Schedule – **ADD** PR press to release button to BF WC (210A) and Universal WC (227W).

B12.2. Door Schedule Abbreviations – **ADD** abbreviation of PR to indicate press to reset.

C ATTACHMENTS

C.1 Architectural drawings: 12 pages, issued by Montgomery Sisam Architects and Kahler Slater on June 19, 2026.

C.2 Architectural specifications: Section 00 01 10 (4 pages), Section 07 50 00 (12 pages), Section 08 71 00 (20 pages), Section 08 80 00 (8 pages), Section 09 66 24 (6 pages), Section 09 81 00 (2 pages), Section 10 28 13 (5 pages), and Section 10 80 00 (5 pages) issued by Montgomery Sisam Architects and Kahler Slater on June 19, 2026.

C.3 Mechanical Addendum No. 1: 2 pages, issued by EXP on June 19, 2026.

C.4 Mechanical drawings: 4 pages, issued by EXP on June 19, 2026.

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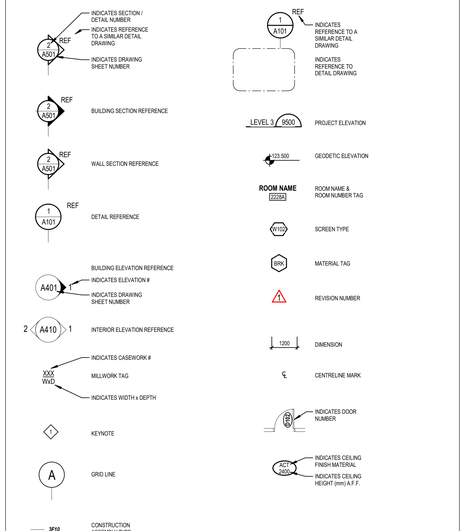
C.5 Electrical Addendum No. 1: 1 page, issued by EXP on June 19, 2026.

C.6 Electrical drawings: 3 pages, issued by EXP on June 19, 2026.

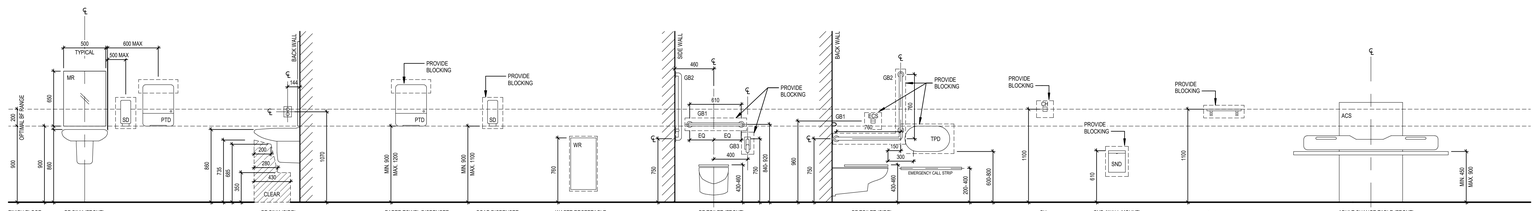
---------- END OF ADDENDUM NO. 1 ----------

SYMBOL LEGEND

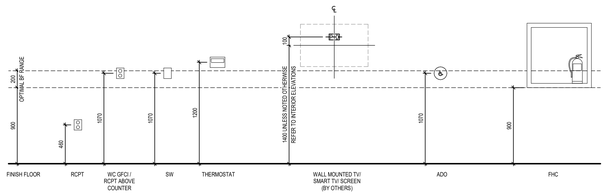


TYPICAL ABBREVIATIONS	
ABBREV	**FULL WORD(S)**
A/D	ACCESS DOOR (HINGED)
A/HK	APRON HOOK
A/PNL	ACCESS PANEL (NON-HINGED)
A/S	ADJUSTABLE SHELF
AB	AIR BARRIER
ABLK	ARCHITECTURAL BLOCK
ACB	ACOUSTIC BAFFLE
ACBLK	ACOUSTIC BLOCK
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ALUMINUM COMPOSITE PANEL
ACR	ACRYLIC
ACS	ADULT CHANGE STATION
ACT	ACOUSTIC PANEL CEILING
AD	AREA DRAIN
ADD	ADDENDUM
ADJ	ADJUSTABLE
ADO	AUTOMATIC DOOR OPERATOR
ADO/M	AUTOMATIC DOOR OPERATOR - MOTION DETECTOR
ADO/P	AUTOMATIC DOOR OPERATOR - PUSH PLATE
ADT	ACOUSTIC DOOR TREATMENT
AF	ACCESS FLOORING
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALC/D	ALCOHOL DISPENSER
ALUM	ALUMINUM
ALUMB	ALUMINUM BASE
AMD	AUTOMATED MEDICATION DISPENSING UNIT
AMHR	ANTI-MICROBIAL HAND RINSE
AMP	ACOUSTIC METAL PANEL
ANNUN	ANNUNCIATOR PANEL
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS
AP	ACOUSTIC PANEL
APPROX	APPROXIMATE
AR	ACCENT RAIL
ASB	ASBESTOS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASV	ANTI-SLIP VINYL
AVB	AIR BARRIER & VAPOUR RETARDER
AVS	AUDIO AND VISUAL SIGNAL DEVICE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWMAC	ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA
AWP	ACOUSTIC WOOD PANEL
B/PL	BASE PLATE
BAS	BUILDING AUTOMATION SYSTEM
BB	BLACK BOARD
BC	BOTTOM OF CURB
BED	BEDROOM
BEDG	BEDROOM GENERAL
BEDS	BEDROOM SPECIAL
BF	BARRIER-FREE
BFRH	BARRIER-FREE ROBE HOOK
BKB	BACKER BOARD
BH	BORE HOLE
BH/CONC	BUSHHAMMERED CONCRETE
BHD	BULKHEAD
BL	BED LOCATOR
BLK	BLOCK
BLDG	BUILDING
BN	BULLNOSE
BOL	BOLLARD
BPD	BEDPAN DISINFECTOR
BPR	BED PAN RACK
BR	BUMP RAIL
BRK	BRICK
BSMT	BASEMENT
BV	BRICK VENT
BW	BOTTOM OF WALL
C/C	CENTRE TO CENTRE
C/T	CLAY TILE (BLOCK)
C/ROD	CURTAIN ROD
C/TRK	CURTAIN TRACK
C/W	COMPLETE WITH
C/WK	CHART RACK
CA	COMPRESSED AIR
CB	CATCH BASIN
CB/SV	INTEGRATED/PRE-FAB COVE BASE
CBPT	CHALKBOARD PAINT
CD	CHEMICAL DISPENSING UNIT
CEM	CEMENT
CEM/BD	CEMENTITIOUS BOARD
CEM/FIN	CEMENT FINISH
CEM/PLAS	CEMENT PLASTER
CG	CORNER GUARD
CGSB	CANADIAN GENERAL STANDARDS
CH/RL	CHAIR RAIL
CIP	CAST-IN-PLACE
CIR	CIRCULATION
CJ	CONSTRUCTION JOINT
CKB	CHALKBOARD
CK/T	CORK TILE
CL	CENTRE LINE
CLG	CEILING
CLR	CLEAR
CLR/GL	CLEAR GLASS
CLS	CLOSURE
CMU	CONCRETE MASONRY UNIT
COL	COLOUR
COL/CON	COLOURED CONCRETE
COLN	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CON/FL	CONCRETE FLOOR
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CP/PB	CANADA POST PARCEL BOX
CPT	CARPET
CR	CARD READER
CRL	CRASH RAIL
CR/HR	CRASH HAND RAIL
CRCI	CONTRACTOR REMOVED, CONTRACTOR INSTALLED
CSCI	CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
CRK	COAT RACK
CSA	CANADIAN STANDARDS ASSOCIATION
CSS	CLINIC SERVICE SINK
CT	CERAMIC TILE
CTJ	CONTROL JOINT
CUH	CABINET UNIT HEATER
CUP	CUPBOARD
CUP/D	CUP DISPENSER
CW	CURTAIN WALL
D	DATA
D/P	DIAPER PAIL
DA	DOOR ALARM
DB	DOOR BUZZER
DBL	DOUBLE
DC	DOOR CONTACT
DCS	DIAPER CHANGE STATION
DECF	DECORATIVE FINISH
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DFP	DOOR FRAME PROTECTION
DFP-F	DOOR FRAME PROTECTION FULL HEIGHT
DFP-H	DOOR FRAME PROTECTION HALF HEIGHT
DIA	DIAMETER
DIS	DISINFECTOR
DL	DOME LIGHT
DLC	DELAYED CLOSING
DN	DOWN
DO	DOOR OPERATOR
DP	DOOR PROTECTION
DP-F	DOOR PROTECTION FULL HEIGHT
DP-H	DOOR PROTECTION HALF HEIGHT
DP-K	DOOR PROTECTION KICK PLATE
DS	DIGITAL SIGNAGE
DSB	DIGITAL SIGNAGE BRACKET
DV	DISPLACEMENT VENTILATION
DW	DISHWASHER
DWG	DRAWING
E/O	EDGE OF
E/PT	EPOXY PAINT
E/TER	EPOXY TERRAZZO
EAA	EMERGENCY ASSISTANCE ALARM
ECS	EMERGENCY CALL SYSTEM
EF	EXHAUST FAN (REFER TO MECH)
EIFS	EXTERIOR INSULATION AND FINISH
EJ	EXPANSION JOINT
EL	ELEVATION (ABOVE DATUM)
ELV	ELEVATION (VIEW)
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EMP	EMERGENCY POWER
ENT	ENTRANCE
EP	ELECTRICAL PANEL
EPH	ELECTRIFIED PANIC HARDWARE
EPX	EPOXY FLOOR
EPXS	EPOXY FLOOR SYSTEM
EQ	EQUAL
ER	ELECTRICAL RECEPTACLE
ES	ELECTRIC STRIKE
EX	EXISTING
EX/C	EXPOSED CONCRETE
EX/ST	EXPOSED STRUCTURE
EXAM	EXAMINATION
EXP	EXPOSED
EXT	EXTERIOR
EW	EYE WASH
F/GL	FROSTED GLASS
F/MIR	FRAMED MIRROR
F/TGL	FROSTED TEMPERED GLASS
F/O	FACE OF
F/S	FOLDING CHART SHELF
F/WX	FIBERGLASS WALL COVERING
FAF	FLUID APPLIED FLOORING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER (SURFACE MOUNTED)
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FFH	FORCE FLOW HEATER
FFL	FINISH FLOOR
FG	FLOOR GRILLE
FGL	FLOAT GLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FL	FLOOR
FLS	FLOOR SCRUBBER
FOB	FACE OF BRICK
FOS	FACE OF STEEL
FP	FRAME PROTECTION
FPL	FILLER PANEL
FR	FLOOR RECEPTACLE
FRT	FIRE RETARDANT / FIRE RATED
FRGL	FIRE-RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
FRPL	FIREPLACE
FRR	FIRE RESISTANCE RATING
FS	FIRE SEPARATION
FSS	FOLDING SHOWER SEAT
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GBS	GLAZED BALUSTRADE SYSTEM
GD	GLOVE DISPENSER
GEN	GENERIC ACCESSORY
GF	GLASS FILM
GFCI	GROUND FAULT CIRCUIT INTERRUPTERS
GL	GLASS (FLOAT)
GL/T	GLASS MOSIAC TILE
GLB	GLASS BLOCK
GM	GROMMET
GWB	GYPSUM BOARD
GWB/AR	GYPSUM BOARD, ABUSE RESISTANT
GWB/IR	GYPSUM BOARD, IMPACT RESISTANT
GWB/MR	GYPSUM BOARD, MOISTURE RESISTANT
HAMP	HAMPER
HB	HOSE BIB
HC	HOLLOW CORE
HCW	HOLLOW CORE WOOD
HD	HAND DRYER
HDN/CON	HARDENED CONCRETE
HEW	HAND AND EYE WASH SINK
HK	COAT HOOK
HM	HOLLOW METAL
HN/D	HAIRNET DISPENSER
HO	HOLD OPEN
HO-MAG-DB...	HOLD OPEN DEVICE DOUBLE DOOR- MAGNETIC
HO-MAG	HOLD OPEN DEVICE - MAGNETIC
HOR	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HR/DR	HAIR DRYER
HRL	HAND RAIL
HS	HAND SANITIZER
HSGL	HEAT STRENGTHENED GLASS
HSKP	HOUSEKEEPING
HST	HOOK STRIP (610mm, 3 HOOKS)
HT	HEIGHT
HWC	HYGIENIC WALL CLADDING
HWU	HEAD WALL UNIT
HYD	HYDRANT
HYD-L	HYDROCOLLATOR (LARGE)
HYD-S	HYDROCOLLATOR (SMALL)
IB	INFORMATION BOARD
IC	INTERCOM
ICS	INFANT CHANGE STATION
ID	INSIDE DIAMETER
IGL	INTERIOR GLASS
IGU	INSULATED GLASS UNIT
INSUL	INSULATION
INT	INTERIOR
IP	INTUMESCENT PAINT
IV/T	INTRAVENOUS TRACK
JAN	JANITOR
JAN/S	JANITOR'S SHELF
JT	JOINT
kg	KILOGRAM
KL	KEYED LOCK
km	KILOMETRE
KP	KEYPAD
kPa	KILOPASCALS
KS	KEY SWITCH
L/H	LEFT HAND
LAB	LABORATORY
LAM	LAMINATE / LAMINATED
LAV	LAVATORY
LD/GL	LEADED GLASS
LEX/GL	LEXAN GLAZING
LF	LIGHT FIXTURE
LGB	LAMINATED GLASS BALUSTRADE
LGL	LAMINATED GLASS
LINO	LINOLEUM
LKR	LOCKER
LL	LOOSE LINTEL
LS	LIGHT STANDARD
LTGL	LAMINATED TEMPERED GLASS
LVR	LOUVRE
LVT	LUXURY VINYL TILE
m	METRE
M/BRK	MOP BRACKET
M/G	MAKE GOOD
M/PNL	METAL PANEL
M/RK	MAGAZINE RACK
MATL	MATERIAL
MARB	MARBLE
MAX	MAXIMUM
MB	MEMORY BOX
MBL	MANUAL BLINDS
MC	MEDICINE CABINET
MD	MASK DISPENSER
MECH	MECHANICAL
MED	MEDICAL LOCK
MESH/CLG	MESH CEILING
MET/LIN	METAL LINEAR
MF	METAL FLASHING
MGPNL	MEDICAL GAS PANEL
MH	MANHOLE
MHD	MASK HOLDER
MHO	MAGNETIC, HOLD OPEN
MIN	MINIMUM
MIR	MIRROR
MIR/S	MIRROR W/ SHELF
MISC	MISCELLANEOUS
mm	MILLIMETRE
ML	MAGNETIC LOCK
MO	MASONRY OPENING
MOL	MINISTRY OF LABOUR
MOLTC	MINISTRY OF LONG TERM CARE
MPa	MEGAPASCAL
MPH	MOP HOLDER
MRL-CH	MOBILE RESIDENT LIFT - CHARGER
MRL-FL	MOBILE RESIDENT LIFT - FLOOR LIFT
MRL-SS	MOBILE RESIDENT LIFT - SIT TO STAND
MS	MOP SINK
MTBL	MOTORIZED BLINDS
MTL	METAL
MW	MILLWORK
MW/O	MICROWAVE OVEN
MPW	METAL WALL PANEL
N/A	NOT APPLICABLE
NAT	NATURAL
NBC	NATIONAL BUILDING CODE
NC	NURSE CALL
NCB	NARCOTIC CABINET
NCE	NURSE CALL EMERGENCY STATION
NCL	NURSE CALL LIGHT
ND	NAPKIN DISPENSER
NFHB	NON-FREEZE HOSE BIB
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
No.	NUMBER
NPS	NOMINAL PIPE SIZE
NR	NAPKIN RECEPTOR
NTS	NOT TO SCALE
OAA	ASSOCIATION OF ARCHITECTS
OBC	ONTARIO BUILDING CODE
O/C	ON CENTR
OD	OUTSIDE DIAMETER
OFF	OFFICE
OGCA	ONTARIO GENERAL CONTRACTORS ASSOCIATION
OI	OCCUPIED INDICATOR
OPSS	ONTARIO PROVINCIAL STANDARD SPECIFICATION
OR	OPERATING ROOM
ORCI	OWNER REMOVED, CONTRACTOR INSTALLED
OSCI	OWNER SUPPLIED, CONTRACTOR INSTALLED
OSB	ORIENT STRAND BOARD
OSOI	OWNER SUPPLIED, OWNER INSTALLED
OW/GL	ONE-WAY GLASS
OWSJ	OPEN WEB STEEL JOISTS
P	POWER
P/BRK	PAPER BRACKET
P/CAB	PRESENTATION CABINET
P/CT	PLASTER COATING
P/LKR	PURSE LOCKER
PA	PUBLIC AMENITIES
PAP	PREFINISHED ALUMINUM PANEL
PB	PUSH BUTTON
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCP	PRECAST CONCRETE PANEL
PCT	PORCELAIN TILE
PD	POCKET DOOR
PEW	PORTABLE EYE WASH
PF	PROTECTIVE FLOORING
PHL	PHYSICAL LOCK
PGB	PEGBOARD
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLS	PRIVACY LOCKSET
PL	PUSH TO LOCK
PLYWD	PLYWOOD
PM/RK	PAMPHLET/MAGAZINE RACK
PORC	PORCELAIN
POSN	POSITION
PP	PUSH PLATE
PPE	PERSONAL PROTECTION EQUIPMENT
PPR	PEDESTAL PERIMETER RADIATOR
PR	PAIR
PR	PRESS TO RESET
PRJ	PROJECTION
PRV	PRIVACY CURTAIN TROD
PR/SC	PROJECTION SCREEN
PR/PT	PRIME PAINT
PR.VEST	PRESSURIZED VESTIBULE
PRJ	PROJECTOR
PROF	PROFILE
PROJ	PROJECT
PS	PULL STATION
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTD/R	PAPER TOWEL DISPENSER/RECEPTOR
PTL	PUSH TO LOCK
PTO	PUSH TO OPEN
PTR	PAPER TOWEL RECEPTOR
PTS	PNEUMATIC TUBE STATION
PTS/R	PNEUMATIC TUBE RISER
QRY	QUARRY TILE
R	RADIUS
R/GL	REFLECTIVE GLASS
R/I	ROUGH-IN
R/S	ROD AND SHELF UNIT
RA	ROOF ANCHOR
RAIC	ROYAL ARCHITECTURAL INSTITUTE OF CANADA
RB	RESILIENT FLOOR BASE
RBS	RUBBER SHEET
RCPT	RECEPTACLE
RD	ROOF DRAIN
REV	REVISION
REX	REQUEST TO EXIT DEVICE
RF	REFRIGERATOR
RH	ROBE HOOK
RH/S	ROBE HOOK AND SHELF
RHP	RADIANT HEAT PANEL
RI	RISER
RLIFT	RESIDENT LIFT
RM	ROOM
RO	ROUGH OPENING
RR	REMOTE RELEASE
RS	ROLLER SHADE
RSF	RESILIENT SHEET FLOOR
RSSF	RESILIENT SHEET SAFETY FLOOR
RTF	RESILIENT TILE FLOORING
RWL	RAIN WATER LEADER
RWS	RESIDENT WANDERING SYSTEM
S	SPEAKER
S/BRH	SCRUB BRUSH HOLDER
S/C	SHARPS DISPOSAL CONTAINER
S/CON	SEALED CONCRETE
SAB	SOUND ATTENUATION BATT (INSULATION)
SB	STEEL BOLLARD
SC	SOLID CORE
SCC	SPRINKLER CONTROL CABINET
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER
SDH	SOAP DISH
SECT	SECTION
SER	SERVICES
SGL	SPANDREL GLASS
SH/C	SHOWER CURTAIN
SH/H	SHOWER HEAD
SH/R	SHOWER ROD AND CURTAIN
SH/S	SHOWER SEAT
SHCH	SHAMPOO CHAIR
SIM	SIMILAR
SLV	SLEEVE
SM	SQUARE METERS
SMM	SNOW MELT MANIFOLD
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SOE	SUPPORT OF EXCAVATION
SOG	SLAB-ON-GRADE
SP	SPANDREL PANEL
SPEC	SPECIFICATION
SPK	SPRINKLER
SPL	SPECIAL
SPL/S	SPECIALTY SHELF
SS	SOLID SURFACING MATERIAL
SSG	STRUCTURAL SILICONE GLAZED
SST	STAINLESS STEEL
SSS	STAINLESS STEEL SHELF
ST	STAIN
STL	STEEL
STN	STONE
STOR	STORAGE
STR	STRUCTURAL
STR/U	STORAGE UNIT
SV	SHEET VINYL
SVC	SPRINKLER VALVE CABINET
SW	SWITCH
T/MIR	TRANSPARENT (ONE WAY) MIRROR
T/O	TOP OF
T&G	TONGUE AND GROOVE
TB	TACKBOARD
TB/S	TACKBOARD STRIP
TBD	TO BE DETERMINED
TBR	TOILET BACK REST
TD	TRENCH DRAIN
TDH	TONGUE DEPRESSOR HOLDER
TEL	TELEPHONE OUTLET
TEMP	TEMPERED
TER	TERRAZZO
TEX FIN	TEXTURED FINISH
TGL	TEMPERED GLASS
TH	THERMOSTAT
TI/GL	TINTED GLASS
TID	TAG ID SYSTEM
TL	TILE
TME	TO MATCH EXISTING
TOC	TOP OF CURB
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET/SHOWER PARTITION
TPD	TOILET PAPER DISPENSER
TPGL	TEMPERED PATTERNED GLASS
TR	TOWEL ROD
TRAN	TRANSPARENT
TRD	TREAD
TRK	ALUMINUM TRACK
TS	TRANSITION STRIP
TSD	TOILET SEAT DISPENSER
TV	TELEVISION OUTLET
TV/BRK	TELEVISION BRACKET
TW	TOWEL WARMER
TWSI	TACTILE WARNING SURFACE INDICATOR
TYP	TYPICAL
U/C	UNDERCUT
U/S	UNDERSIDE (OF)
UC/REF	UNDERCOUNTER REFRIGERATOR
ULC	UNDERWRITERS' LABORATORIES OF CANADA
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UT	UTILITY
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITE TILE
VDM	VENDING MACHINE
VHD	VISOR HOLDER
VIF	VERIFIED IN FIELD
VM	VENDING MACHINE
VNL	VINYL SHEET
VR	VAPOUR RETARDER
VSD	VINYL ELECTRO STATIC DISSIPATIVE TILE
VTC	VEHICULAR TRAFFIC COATING
VWC	VINYL WALL COVERING
W/COV	WALL COVER
WB	WHITEBOARD
WC	WATER CLOSET / WASHROOM
WD	WOOD (SOLID)
WDF	WOOD FLOORING
WDP	WOOD PANEL
WDS	WOOD SLAT
WIN/C	WINDOW COVERING
WM	WIRE MESH
WP	WALL PROTECTION
WPF	WATERPROOF FLOORING
WPR	WALL-MOUNTED PERIMETER RADIATOR
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WV	WOOD VENEER
WWM	WELDED WIRE MESH

BARRIER-FREE (BF) WC FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



ELECTRICAL & MECHANICAL MOUNTING HEIGHTS



ARCHITECTURAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
A0000	COVER PAGE
A0100	INTERIOR PARTITION AND FURRING ASSEMBLIES
A0201	LIFE SAFETY PLANS
A0202	LIFE SAFETY PLANS
A0211	LIFE SAFETY SECTIONS
A0221	TYP. FIRE SEPARATION DETAILS @ EXISTING CONDITIONS
A0301	ACCESSIBILITY PLANS
A0401	PROJECT STATISTICS, SITE PLAN, CONTEXT AND OBC MATRIX
A0701	AREA OF WORK PLANS
A0702	AREA OF WORK PLANS
A1101	PATIENT LOBBY & PARKING GARAGE DEMOLITION PLANS
A1102	LEVEL 1 DEMOLITION PLAN
A1103	LEVEL 2 DEMOLITION PLAN
A1104	LEVEL 3 DEMOLITION PLAN
A1105	ROOF LEVEL DEMOLITION PLAN
A1201	PATIENT LOBBY & PARKING GARAGE DEMOLITION REFLECTED CEILING PLANS
A1202	LEVEL 1 DEMOLITION REFLECTED CEILING PLAN
A1203	LEVEL 2 DEMOLITION REFLECTED CEILING PLAN
A1204	LEVEL 3 DEMOLITION REFLECTED CEILING PLAN
A1210	DEMOLITION SCOPE - LEVEL 1, LOBBY LEVEL, CLINIC 2 & LEVEL 3
A1211	DEMOLITION SCOPE - LEVEL 2
A1301	PARTIAL SLAB EDGE PLANS - ALL LEVELS
A1401	PATIENT LOBBY & PARKING GARAGE FLOOR PLAN
A1402	LEVEL 1 FLOOR PLAN
A1403	LEVEL 2 FLOOR PLAN
A1404	LEVEL 3 & LEVEL 4 FLOOR PLANS
A1405	ROOF LEVEL FLOOR PLAN
A1501	PATIENT LOBBY & PARKING GARAGE REFLECTED CEILING PLANS
A1502	LEVEL 3 REFLECTED CEILING PLAN
A2301	WALL SECTIONS - CLINIC 2
A2302	WALL SECTIONS - PATIENT LOBBY
A2331	CLINIC STAIRS - PLANS, ELEVATIONS & SECTIONS
A4202	PATIENT LOBBY STAIRS - PLANS, ELEVATIONS & SECTIONS
A4203	PATIENT LOBBY STAIRS - PLANS, ELEVATIONS & SECTIONS
A4204	PATIENT LOBBY STAIRS - ENLARGED PLANS, ELEVATIONS & SECTIONS
A4301	PATIENT LOBBY ELEVATOR - PLANS, ELEVATIONS & SECTIONS
A5401	INTERIOR DETAILS - PLANS & SECTIONS
A5402	INTERIOR DETAILS - PLANS & SECTIONS
A5403	INTERIOR DETAILS - PLANS & SECTIONS
A8101A	ROOM FINISH SCHEDULE & INTERIOR FINISHES PLANS - PARKING GARAGE, LEVEL 1, PATIENT LOBBY & LEVEL 3
A8101B	ROOM FINISH SCHEDULE & INTERIOR FINISHES PLAN - LEVEL 2
A9001	MILLWORK DETAILS
A9011	MILLWORK - KEY DIAGRAMS

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#	DATE:	REVISION:	BY:
11	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSA/KS
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9	JAN 9 2026	ISSUED FOR 100% CD	MSA/KS
8	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSA/KS
7	SEPT 26 2025	ISSUED FOR 80% CD	MSA/KS
6	SEPT 12 2025	ISSUED FOR CLINIC 1 CEILING 100% DD	MSA/KS
5	AUGUST 15 2025	ISSUED FOR CLINIC 1 CEILING 100% SD	MSA/KS
4	MAY 30 2025	ISSUED FOR 100% DD	MSA/KS
3	MAY 2 2025	DD PROGRESS SET	MSA/KS
2	FEB 28 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSA/KS
1	JAN 10 2025	SD PROGRESS SET	MSA/KS

REVISIONS

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UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

GENERAL INFO & GRAPHIC CONVENTIONS

SCALE:	As indicated
DRAWN BY:	MSA
REVIEWED BY:	MSA
JOB NUMBER:	24082
PLOT DATE:	10/01/25

DRAWING NUMBER:
A0001

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1 LEVEL 1 - REFLECTED CEILING PLAN
1 : 100

REFLECTED CEILING PLAN LEGEND

	ACT-1	ACOUSTIC CEILING TILE - 610 x 610mm
	ACT-1A	ACOUSTIC CEILING TILE - 610 x 610mm W/ 50mm ACOUSTIC INSULATION ABOVE
	ACT-2	ACOUSTIC CEILING TILE - 610 x 1220mm
	X-ACT-1	EXISTING CLIP-IN METAL ACOUSTIC CEILING TILES. TYP. PANEL SIZE 610 x 305mm OR 915 X 305mm, SIZE VARIES.
	X-ACT-2	EXISTING ACOUSTIC CEILING TILE - 610 x 1220mm
	X-ACT-3	EXISTING ACOUSTIC CEILING TILE - 610 x 610mm
	GWB-1	GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD
	GWB-1A	GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD 50mm ACOUSTIC INSULATION ABOVE
	GWB-2	GYPSUM BOARD CEILING THREE LAYERS 16mm TYPE X GWB ON STEEL STUD. ULC S101
	X-GWB-1	EXISTING GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
	X-GWB-2	EXISTING 305 X 305mm ACOUSTIC TILE LAMINATED TO GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
	WDP-1	WOOD VENEER PANEL
	EXP	EXPOSED CEILING REFER TO FINISH SCHEDULE FOR PAINT
		AREA NOT IN SCOPE, EXISTING TO REMAIN

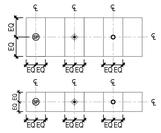
- SQUARE DIFFUSER - REFER TO MECHANICAL
- CIRCULAR DIFFUSER - REFER TO MECHANICAL
- LINEAR DIFFUSER/RETURN - REFER TO MECHANICAL
- RETURN GRILLE - REFER TO MECHANICAL
- EXHAUST GRILLE - REFER TO MECHANICAL
- SPRINKLER HEAD - REFER TO MECHANICAL
- SHAFT OPENING
- ACCESS PANEL - COORDINATE WITH MECHANICAL

- EXIT SIGN - REFER TO ELECTRICAL
- SMOKE DETECTOR - REFER TO ELECTRICAL
- DUCT SMOKE DETECTOR - REFER TO ELECTRICAL
- HEAT DETECTOR - REFER TO ELECTRICAL
- STROBE LIGHT - REFER TO ELECTRICAL
- FIRE ALARM SPEAKER - REFER TO ELECTRICAL
- PAGING SPEAKER - REFER TO ELECTRICAL
- OCCUPANCY SENSOR - REFER TO ELECTRICAL
- DAYLIGHT SENSOR - REFER TO ELECTRICAL
- RECESSED LED - REFER TO ELECTRICAL
- PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL
- 2'x2' LIGHT FIXTURE - REFER TO ELECTRICAL
- LINEAR LIGHT FIXTURE - REFER TO ELECTRICAL
- 1'X4' LIGHT FIXTURE - REFER TO ELECTRICAL
- 2'X4' LIGHT FIXTURE - REFER TO ELECTRICAL
- CEILING MOUNTED EXAM LIGHT - REFER TO ELECTRICAL
- CCTV CAMERA
- AUTOMATIC ROLLER SHADE, BLACK-OUT

REFLECTED CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL FIXTURE TYPES, QUANTITIES AND LOCATIONS, AND COORDINATE THE WORK WITH THESE PLANS.
2. ALL EXPOSED ROUTING OF ELECTRICAL SERVICES ON CEILINGS/LEVELS ABOVE TO BE REVIEWED ONSITE WITH ARCHITECT PRIOR TO INSTALLATION
3. UNLESS OTHERWISE NOTED, CEILING MOUNTED DEVICES IN ACT TILES TO BE LOCATED IN CENTRE OF TILE
4. PROVIDE CONCEALED BRACING TO LATERALLY STABILIZE SUSPENDED CEILINGS WHERE CEILINGS ARE NOT FASTENED TO WALLS
5. PROVIDE ENGINEERED STEEL STUD FRAMING ABOVE ENCLOSED OP CEILING TO SUPPORT MECHANICAL AND ELECTRICAL FIXTURES.
6. LIGHT FIXTURES AND CEILING TILE LAYOUT IN ENCLOSED OPERATORIES SHALL BE CENTERED ABOVE THE CENTERLINE OF THE DENTAL CHAIR.

RCP TYPICAL DIMENSIONS



1. ALIGN ELECTRICAL AND MECHANICAL CEILING MOUNTED ELEMENTS AND CEILING ACCESS PANELS TO CENTRELINE OF ACOUSTIC CEILING TILE, UNLESS OTHERWISE NOTED.

2. EXIT SIGN CENTERED AT DOOR OF ASSOCIATED ROOM.

RENOVATION KEYNOTES

#	DESCRIPTION
R12	NEW GWB CEILING UNDER STAIR.
R13	NEW LED STRIP LIGHT. REFER TO ELEC.
R14	NEW DIFFUSER IN SAME LOCATION AS EXISTING. REFER TO MECH.
R15	NEW LINEAR LIGHT FIXTURE. REFER TO ELEC.
R16	EXISTING BULKHEAD TO REMAIN. PROTECT FROM DAMAGE.

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kahlerslater.com Tel. 414.272.2000
Kahler Slater

PROJECT NORTH
TRUE NORTH

#	DATE:	REVISION:	BY:
10	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
9	MAY 29 2026	ISSUED FOR TENDER	MSAKS
8	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
7	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
6	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS
5	SEPT 12 2025	ISSUED FOR CLINIC 1 CEILING 100% DD	MSAKS
4	AUGUST 15 2025	ISSUED FOR CLINIC 1 CEILING 100% SD	MSAKS
3	MAY 30 2025	ISSUED FOR 100% DD	MSAKS
2	MAY 2 2025	DD PROGRESS SET	MSAKS
1	FEB 28 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSAKS

REVISIONS

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UNIVERSITY OF TORONTO DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

LEVEL 1 REFLECTED CEILING PLAN

SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 10/17/22

DRAWING NUMBER:
A1502

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1 LEVEL 2 - REFLECTED CEILING PLAN
1 : 100

REFLECTED CEILING PLAN LEGEND

ACT-1	ACOUSTIC CEILING TILE - 610 x 610mm
ACT-1A	ACOUSTIC CEILING TILE - 610 x 610mm W/ 50mm ACOUSTIC INSULATION ABOVE
ACT-2	ACOUSTIC CEILING TILE - 610 x 1220mm
X-ACT-1	EXISTING CLIP-IN METAL ACOUSTIC CEILING TILES. TYP. PANEL SIZE 610 x 305mm OR 915 X 305mm, SIZE VARIES.
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GWB-1	GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD
GWB-1A	GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD 50mm ACOUSTIC INSULATION ABOVE
GWB-2	GYPSUM BOARD CEILING THREE LAYERS 16mm TYPE X GWB ON STEEL STUD. ULC S101
X-GWB-1	EXISTING GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
X-GWB-2	EXISTING 305 X 305mm ACOUSTIC TILE LAMINATED TO GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
WDP-1	WOOD VENEER PANEL
EXP	EXPOSED CEILING REFER TO FINISH SCHEDULE FOR PAINT
	AREA NOT IN SCOPE, EXISTING TO REMAIN
	SQUARE DIFFUSER - REFER TO MECHANICAL
	CIRCULAR DIFFUSER - REFER TO MECHANICAL
	LINEAR DIFFUSER/RETURN - REFER TO MECHANICAL
	RETURN GRILLE - REFER TO MECHANICAL
	EXHAUST GRILLE - REFER TO MECHANICAL
	SPRINKLER HEAD - REFER TO MECHANICAL
	SHAFT OPENING
	ACCESS PANEL - COORDINATE WITH MECHANICAL
	EXIT SIGN - REFER TO ELECTRICAL
	SMOKE DETECTOR - REFER TO ELECTRICAL
	DUCT SMOKE DETECTOR - REFER TO ELECTRICAL
	HEAT DETECTOR - REFER TO ELECTRICAL
	STROBE LIGHT - REFER TO ELECTRICAL
	FIRE ALARM SPEAKER - REFER TO ELECTRICAL
	PAGING SPEAKER - REFER TO ELECTRICAL
	OCCUPANCY SENSOR - REFER TO ELECTRICAL
	DAYLIGHT SENSOR - REFER TO ELECTRICAL
	RECESSED LED - REFER TO ELECTRICAL
	PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL
	2'x2' LIGHT FIXTURE - REFER TO ELECTRICAL
	LINEAR LIGHT FIXTURE - REFER TO ELECTRICAL
	1'X4' LIGHT FIXTURE - REFER TO ELECTRICAL
	2'X4' LIGHT FIXTURE - REFER TO ELECTRICAL
	CEILING MOUNTED EXAM LIGHT - REFER TO ELECTRICAL
	CCTV CAMERA
	AUTOMATIC ROLLER SHADE, BLACK-OUT

REFLECTED CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL FIXTURE TYPES, QUANTITIES AND LOCATIONS, AND COORDINATE THE WORK WITH THESE PLANS.

2. ALL EXPOSED ROUTING OF ELECTRICAL SERVICES ON CEILINGS/LEVELS ABOVE TO BE REVIEWED ONSITE WITH ARCHITECT PRIOR TO INSTALLATION

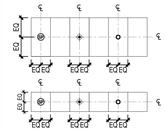
3. UNLESS OTHERWISE NOTED, CEILING MOUNTED DEVICES IN ACT TILES TO BE LOCATED IN CENTRE OF TILE

4. PROVIDE CONCEALED BRACING TO LATERALLY STABILIZE SUSPENDED CEILINGS WHERE CEILINGS ARE NOT FASTENED TO WALLS

5. PROVIDE ENGINEERED STEEL STUD FRAMING ABOVE ENCLOSED OP CEILING TO SUPPORT MECHANICAL AND ELECTRICAL FIXTURES.

6. LIGHT FIXTURES AND CEILING TILE LAYOUT IN ENCLOSED OPERATORIES SHALL BE CENTERED ABOVE THE CENTERLINE OF THE DENTAL CHAIR.

RCP TYPICAL DIMENSIONS



1. ALIGN ELECTRICAL AND MECHANICAL CEILING MOUNTED ELEMENTS AND CEILING ACCESS PANELS TO CENTRELINE OF ACOUSTIC CEILING TILE, UNLESS OTHERWISE NOTED.

2. EXIT SIGN CENTERED AT DOOR OF ASSOCIATED ROOM.

RENOVATION KEYNOTES

#	DESCRIPTION
R17	INSTALL NEW SECONDARY STUD FRAMING ABOVE NEW ACT CEILING FOR ANCHORAGE AND SUSPENSION OF ALL NEW M&E SERVICES AND ACT CEILINGS. MIN. STUD SIZE 152mm. SPACING OF STUDS AS REQUIRED FOR INSTALLATION OF ALL REQUIRED M&E SERVICES.

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PROJECT NORTH / TRUE NORTH

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4	SEPT 26 2025	ISSUED FOR 90% CD	MSAKS
3	MAY 30 2025	ISSUED FOR 100% DD	MSAKS
2	MAY 2 2025	DD PROGRESS SET	MSAKS
1	FEB 28 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSAKS

REVISIONS

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UNIVERSITY OF TORONTO DENTISTRY BUILDING - CLINIC 2 RENOVATION

24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

LEVEL 2 REFLECTED CEILING PLAN

SCALE:	1 : 100
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	10/17/22

DRAWING NUMBER:
A1503

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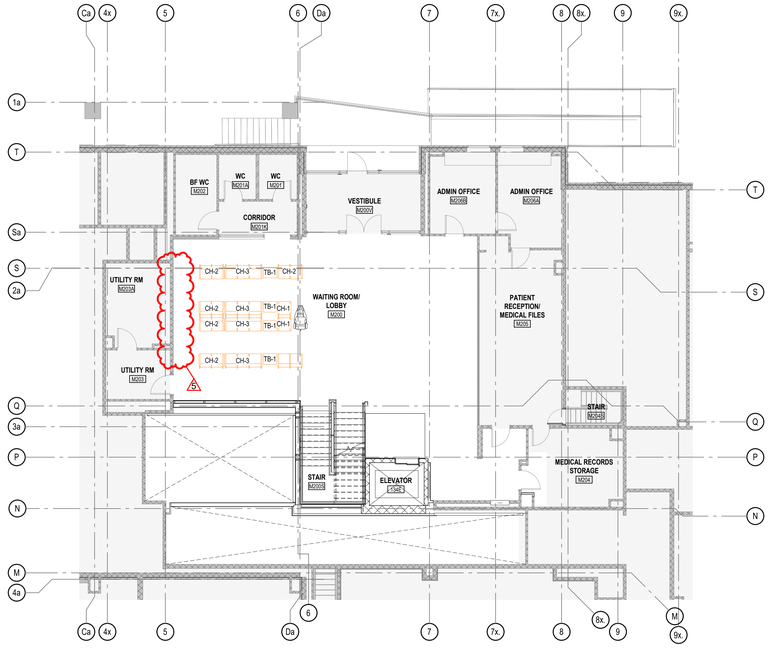
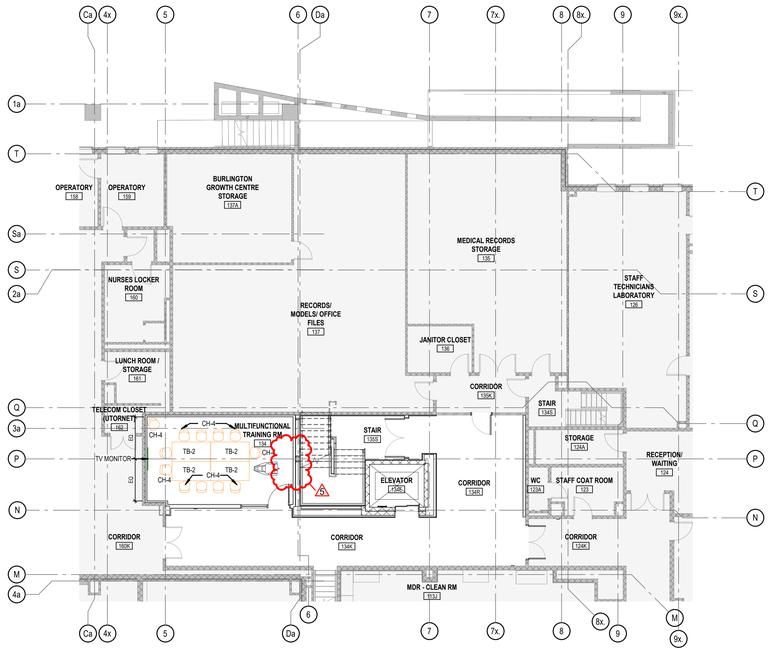


2 PATIENT LOBBY - FF&E PLANS
1 : 100



1 LEVEL 1 - FF&E PLANS
1 : 100

FF&E PLANS LEGEND

- DENTAL EQUIPMENT (GC PROVIDED)
- EQUIPMENT (OWNER PROVIDED)
- FURNITURE (OWNER PROVIDED)
- AREA NOT IN SCOPE

DENTAL EQUIPMENT SCHEDULE (GC PROVIDED)
NOTES: REFER TO SPECIFICATION FOR EQUIPMENT INFORMATION

EQUIP ID	TAG & DESCRIPTION
CHAID06	DEN - 1: DENTAL CHAIR (QTY: 73)
DENSM06	DEN - 2: SINK STATION (QTY: 29)
DENSM32	DEN - 3: DENTAL REAR CASEWORK (QTY: 16)
CARTD76	DEN - 4: MOBILE DENTAL DELIVERY CART (QTY: 2)
CARTD75	DEN - 5: ALABAMA CART (QTY: 73)
CHAID27	DEN - 6: DENTAL CHAIR, REPOSITIONABLE (QTY: 2)
LIGHDN07	DEN - 7: EXAM LIGHT (QTY: 2)
CHAID06C	DEN - 8: COUNTOURED FLOOR BOX FOR DENTAL CHAIR (QTY: 73)
CHAID06H	DEN - 9: STANDARD TRADITIONAL DELIVERY SYSTEM (QTY: 73)
CHAID06M	DEN - 10: ASSISTANT'S INSTRUMENTATION (QTY: 73)
RADDE16	RAD - 1: INTRAORAL X-RAY (QTY: 25)
RADDIE16A	RAD - 2: 16" WALL PLATE FOR INTRAORAL X-RAY (QTY: 25)
RADDIE16B	RAD - 3: OPERATOR WALL REMOTE EXPOSURE SWITCH (QTY: 25)
	RAD - 4: S - II PLUS FULLY MOTORIZED CHAIR
STODE03	DEN - 11: DENTAL DOCTOR'S STOOL (QTY: 75)
STODE04	DEN - 12: DENTAL ASSISTANT'S STOOL(QTY: 75)

EQUIPMENT SCHEDULE (OWNER PROVIDED)

MM - 1: DENTAL CAD CAM MILLING MACHINE

SC - 1: INTRAORAL X-RAY 3D SCANNER ON CART

UC - 1: ULTRASONIC SCANNER

FURNITURE SCHEDULE (OWNER PROVIDED)

TAG	TYPE	QTY	MANUFACTURER	DESCRIPTION
CH-1	WAITING ROOM CHAIR	9	Global Furniture Group	GC3620 PRIMACARE HT WAITING ROOM CHAIR (SINGLE), TEXTILE: GRADE 03, NOMAD 1-GRAY NM04, FRAME FINISH: WHITE, ARMCAP FINISH: M-MOCHA
CH-2	WAITING ROOM CHAIR	8	Global Furniture Group	GC3622 PRIMACARE HT WAITING ROOM CHAIR (DOUBLE), TEXTILE: GRADE 03, NOMAD 1-GRAY NM04, FRAME FINISH: WHITE, ARMCAP FINISH: M-MOCHA
CH-3	WAITING ROOM CHAIR	13	Global Furniture Group	GC3626 PRIMACARE HT WAITING ROOM CHAIR (TRIPLE), TEXTILE: GRADE 03, NOMAD 1-GRAY NM04, FRAME FINISH: WHITE, ARMCAP FINISH: M-MOCHA
CH-4	TASK CHAIR	16	Global Furniture Group	6321-3 MECH HIGH BACK MULTI-TILTER, MESH FINISH: M-VION BLOCK M988, TEXTILE: GRADE 03, NOMAD, 1-GRAY NM04, FRAME FINISH: F-FOG, SEAT: M-REGULAR WITH STANDARD FOAM, M-LUMBER LSP, CYLINDER TYPE: M-5
CH-5	STOOLS	5		
TB-1	SIDE TABLE	12	Global Furniture Group	GC3661-HP PRIMACARE HT WAITING ROOM TABLE
TB-2	CONFERENCE TABLE	4	Global Furniture Group	83672REF BUNGEE TABLE, 72"Wx30"D, MATERIAL: WOOD LAMINATE, LEG FINISH: TUNGSTEN WITH CASTERS

Montgomery Sisam Architects Inc.

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790 N. Water Street, Suite 1700, Milwaukee WI 53202
kahlerslater.com Tel. 414.272.2000

Kahler Slater

PROJECT NORTH / TRUE NORTH

#	DATE:	REVISION:	BY:
5	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
4	MAY 29 2026	ISSUED FOR TENDER	MSAKS
3	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
2	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
1	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS

REVISIONS

ALL DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND INFORMATION ON SITE AND REPORT ANY DISCREPANCY TO ARCHITECT BEFORE PROCEEDING.

UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2
RENOVATION

24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

FF&E PLANS - LEVEL 1 &
PATIENT LOBBY

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	10/17/22

DRAWING NUMBER:

A1701

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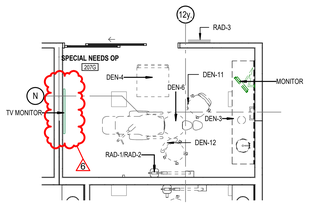

5 SPECIAL NEEDS OP - TYP FF&E
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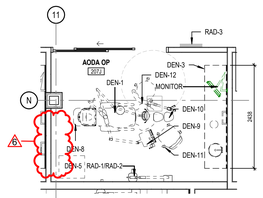

4 ENCLOSED & AODA OP - TYP FF&E
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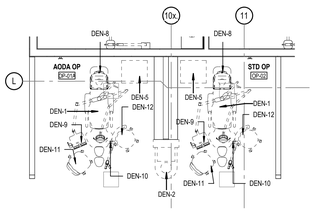

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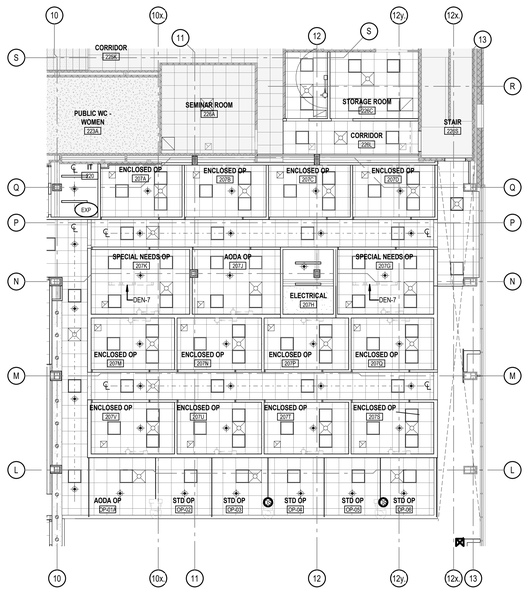

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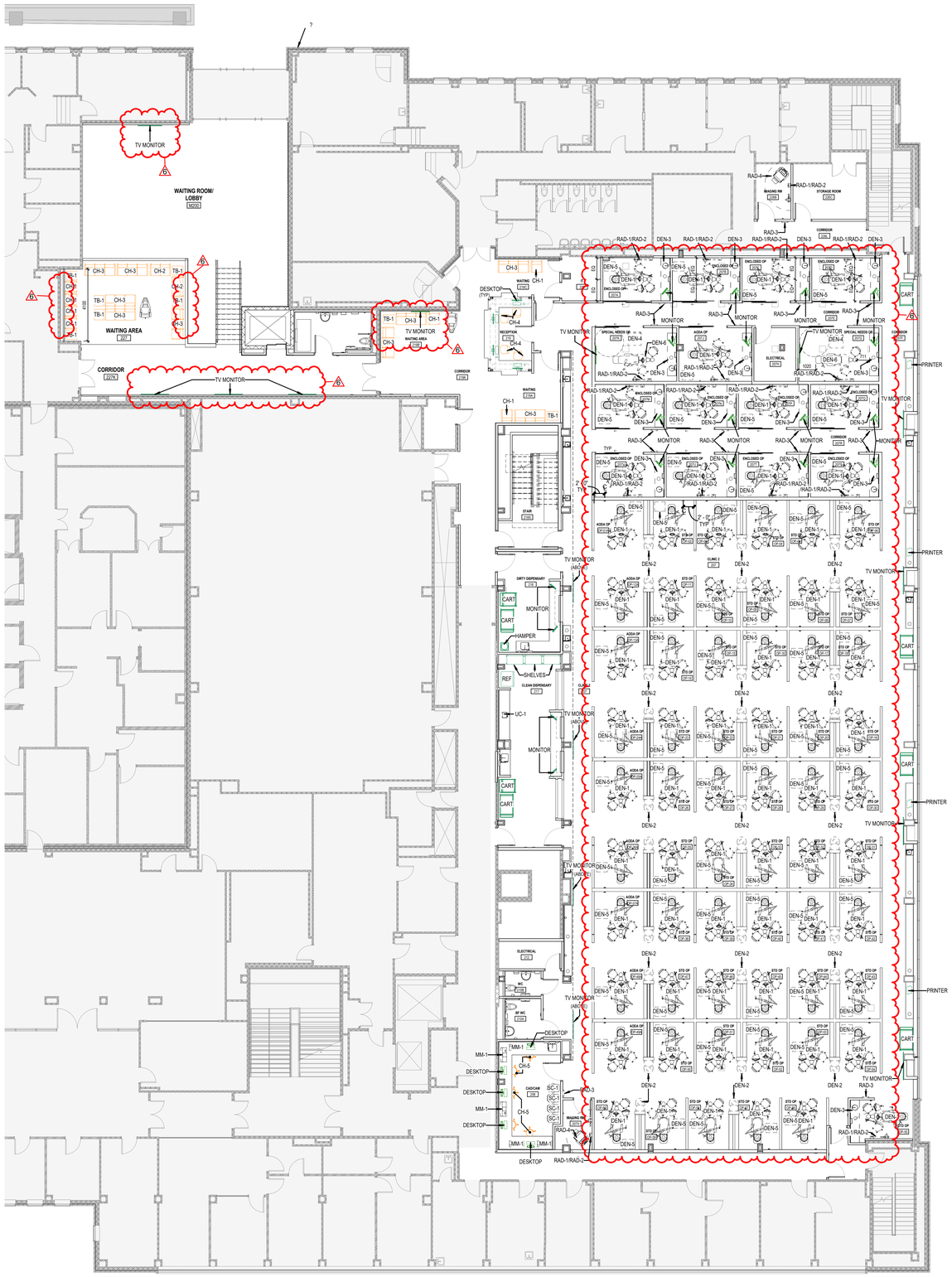

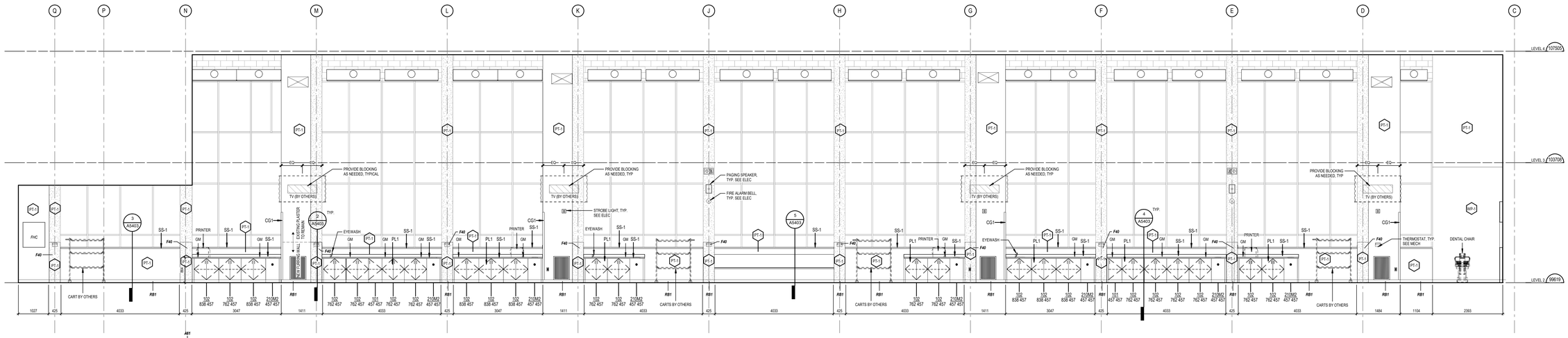

16 CLINIC 2 - EAST ELEVATION
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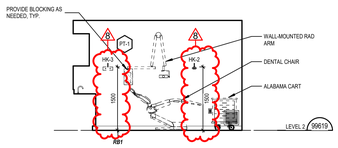

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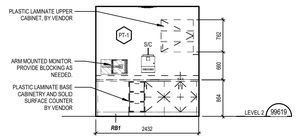

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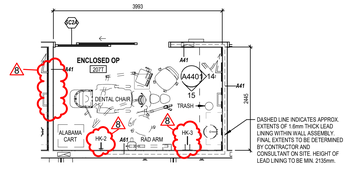

13 ENLARGED PLAN - TYP. ENCLOSED OP
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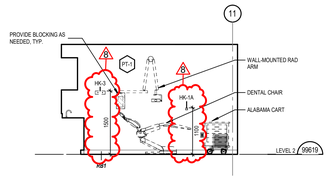

12 AODA OP - SOUTH
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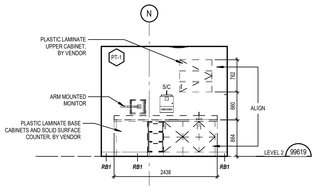

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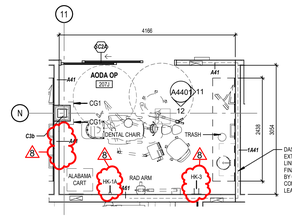

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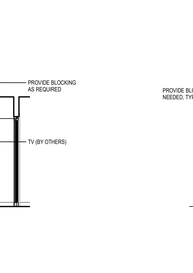

9 TYPICAL MONITOR ELEVATION
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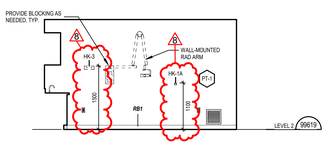

8 TYP. SPECIAL NEEDS OP - SOUTH
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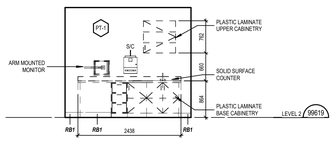

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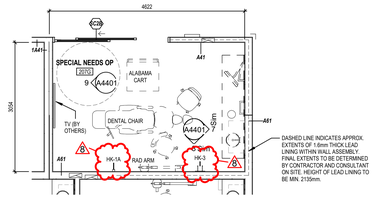

6 ENLARGED PLAN - TYP. SPECIAL NEEDS OP
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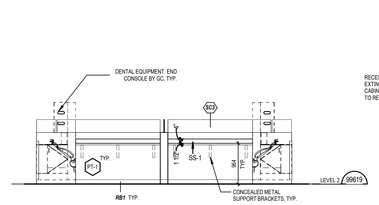

5 TYP. OPEN OPS - EAST
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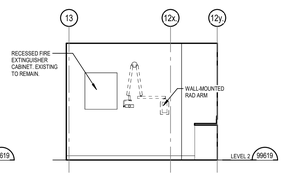
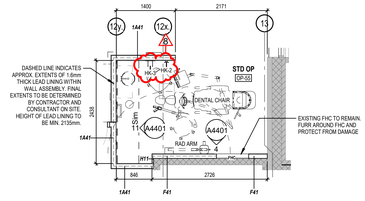


4 SEMI-ENCLOSED OP - S
1 : 50



3 ENLARGED PLAN - SEMI-ENCLOSED OP
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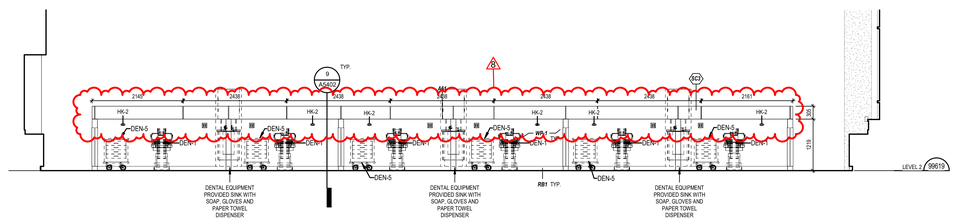

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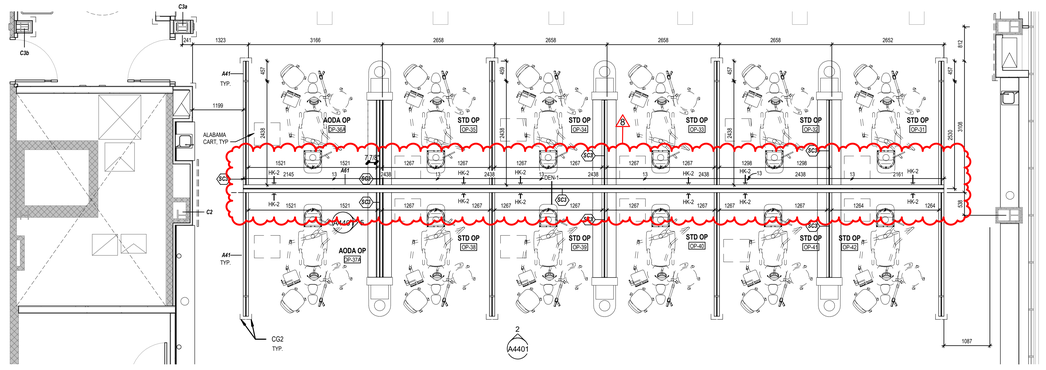

1 ENLARGED PLAN - TYP. CLINIC 2 OPEN OPS
1 : 50

#	DATE:	REVISION:	BY:
8	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
7	MAY 29 2026	ISSUED FOR TENDER	MSAKS
6	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
5	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
4	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS
3	MAY 30 2025	ISSUED FOR 100% DD	MSAKS
2	MAY 2 2025	DD PROGRESS SET	MSAKS
1	FEB 28 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSAKS

REVISIONS

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UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

ENLARGED VIEWS-PLANS, ELEVATIONS

SCALE: 1 : 50
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 02/19/2025

DRAWING NUMBER:
A4401

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Kahler Slater

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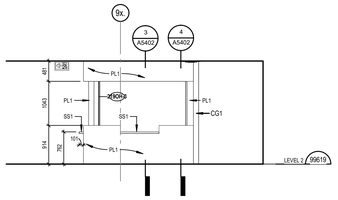
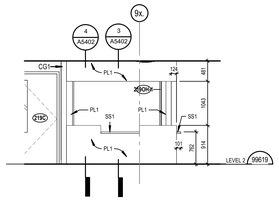


21 02 - RECEPTION SOUTH
1 : 50



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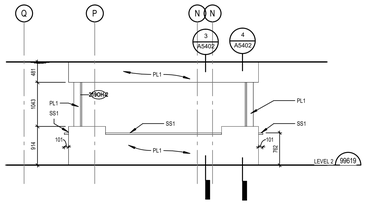

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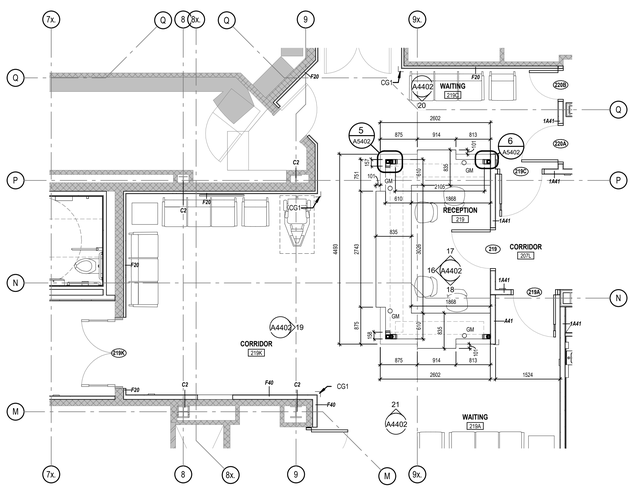

15 CLINIC 2 RECEPTION
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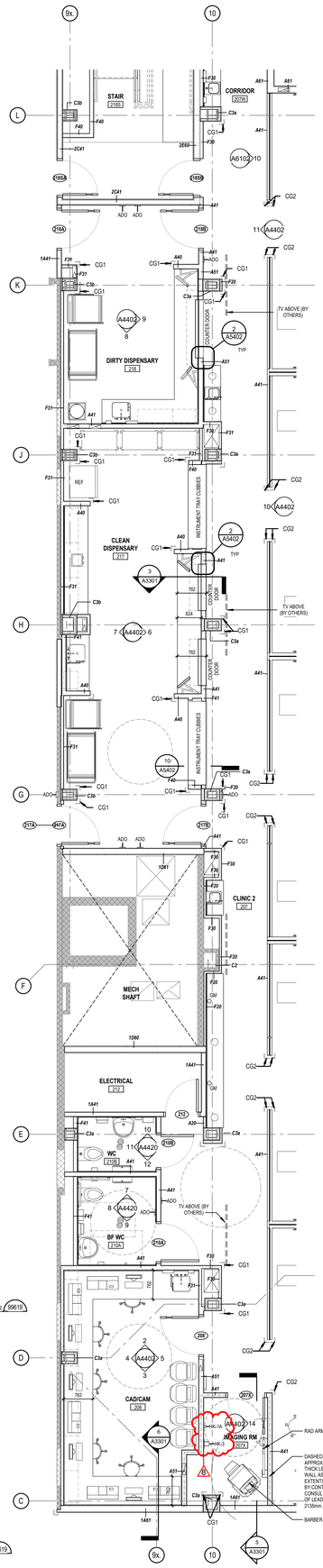

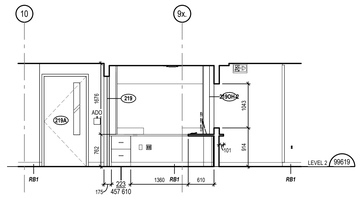

18 02 - RECEPTION DESK SOUTH
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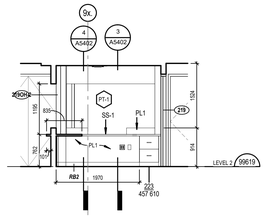

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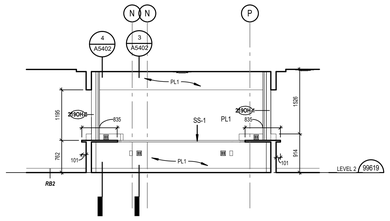

16 02 - RECEPTION DESK WEST
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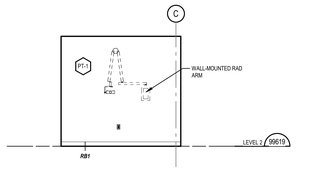

14 IMAGING ROOM 207X - E
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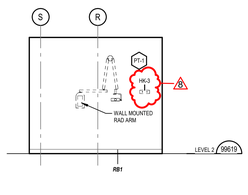

13 IMAGING ROOM 226B - E
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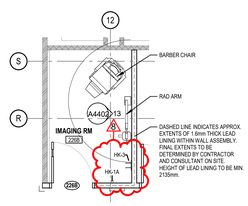

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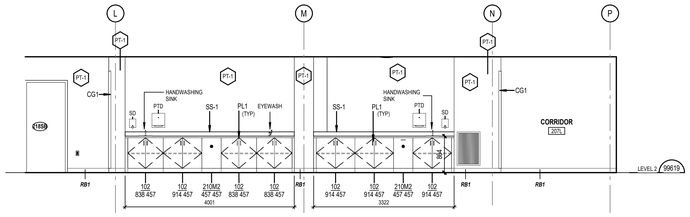

11 CLINIC 2 - WEST CORRIDOR CASEWORK
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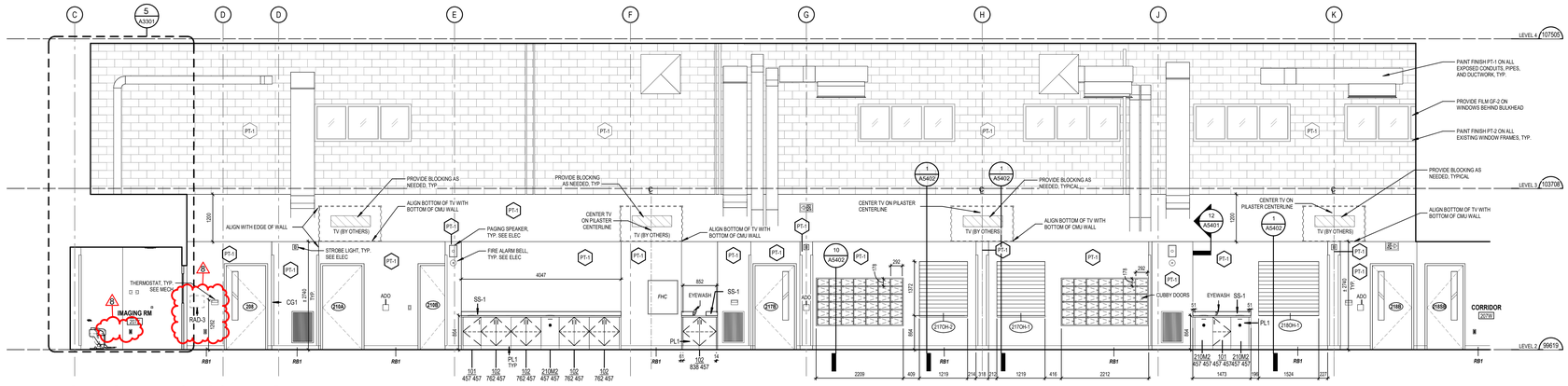

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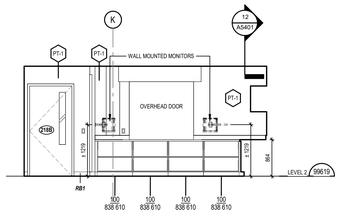

9 DIRTY DISPENSARY - EAST
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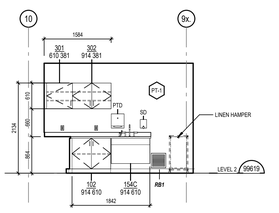

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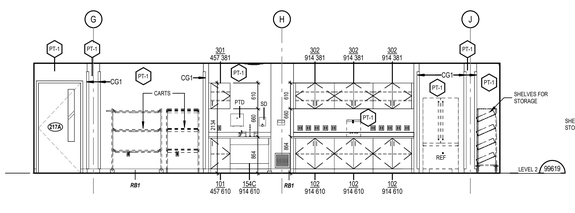

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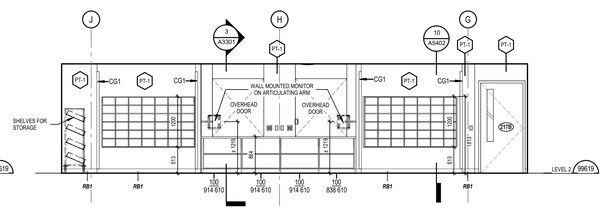

6 CLEAN DISPENSARY - EAST
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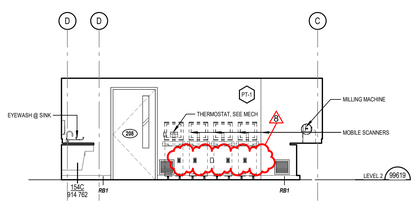

5 CAD/CAM - E
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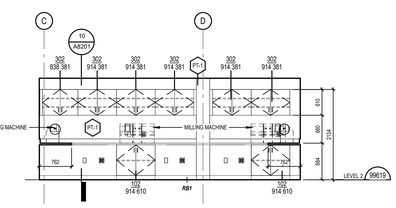

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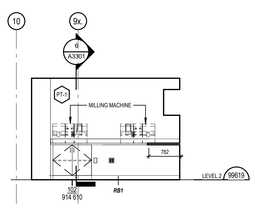

3 CAD/CAM - S
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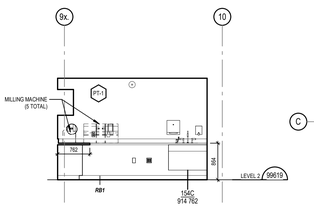

2 CAD/CAM - N
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1 CLINIC 2 - SUPPORT SPACES
1 : 50

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PROJECT NORTH

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8	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
7	MAY 29 2026	ISSUED FOR TENDER	MSAKS
6	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
5	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
4	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS
3	MAY 30 2025	ISSUED FOR 100% DD	MSAKS
2	MAY 2 2025	DD PROGRESS SET	MSAKS
1	FEB 28 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSAKS

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DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

124 EDWARD STREET
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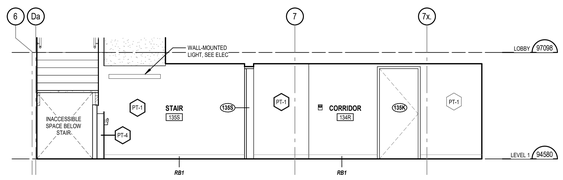
ENLARGED VIEWS-PLANS, ELEVATIONS

SCALE: 1 : 50
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 11/08/22

DRAWING NUMBER:
A4402

2026-06-18 2:19:28 PM Autodesk Docs://24082_UofT_DC_2_R24/24082_UofT DC2_ARA_MAIN_R24.rvt



10 CORRIDOR 134R - NORTH ELEVATION
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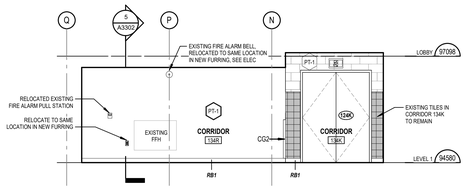

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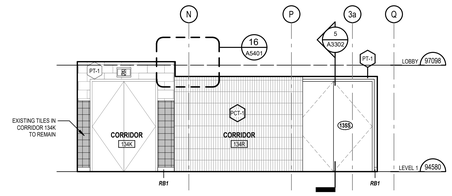

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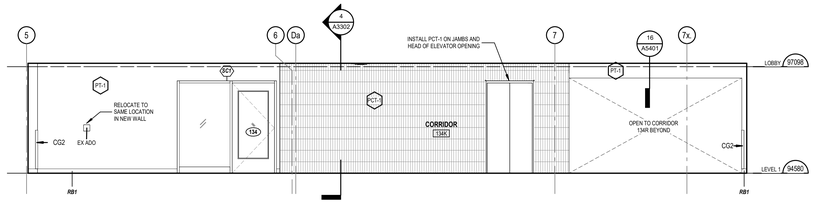

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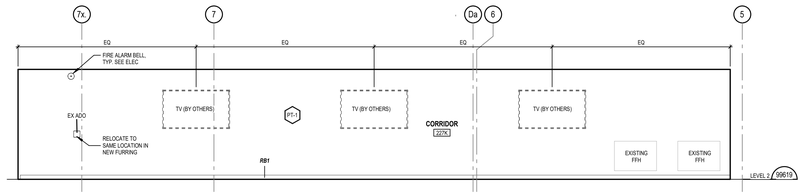

6 CORRIDOR 227K - SOUTH ELEVATION
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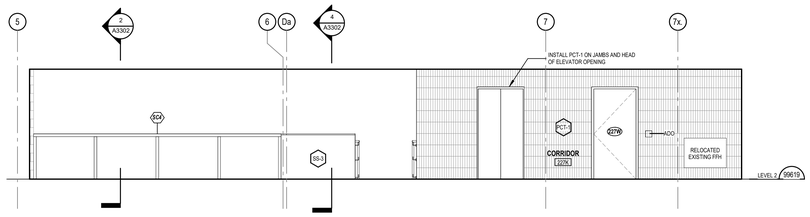

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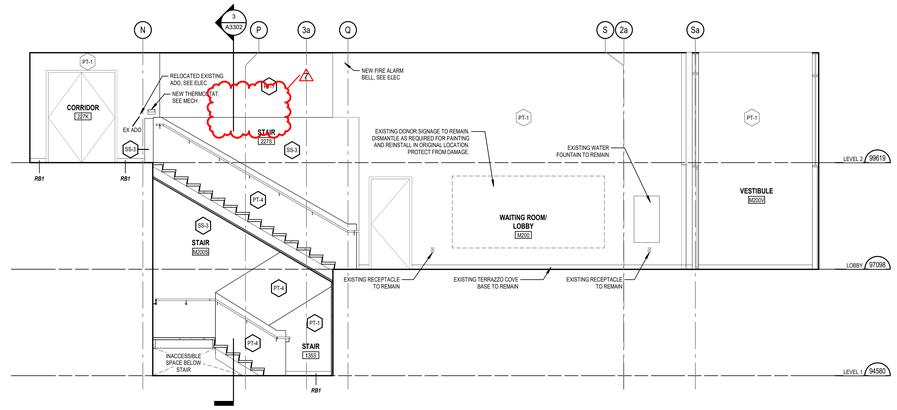

4 PATIENT LOBBY - WEST ELEVATION
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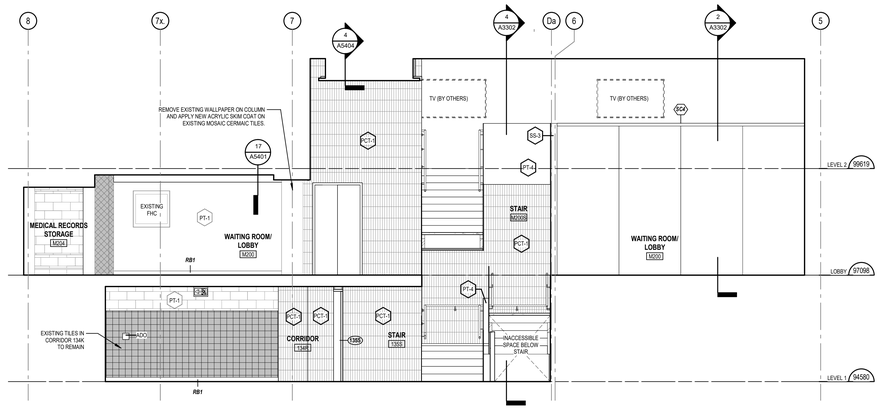

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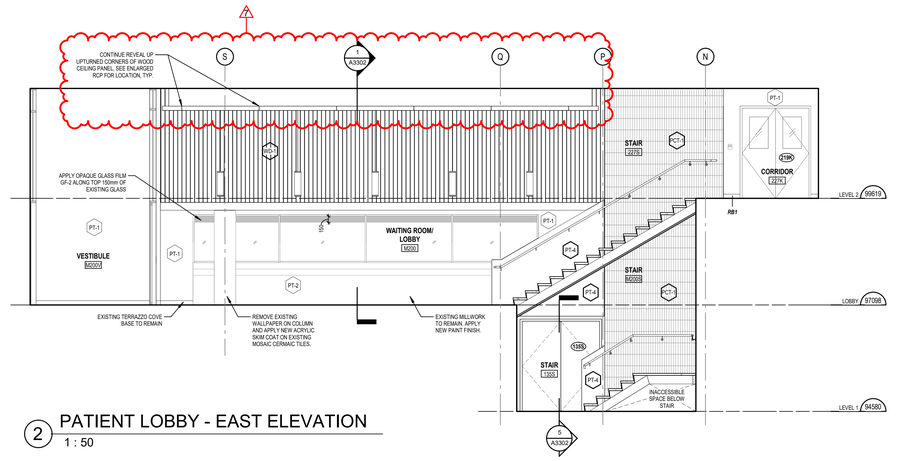

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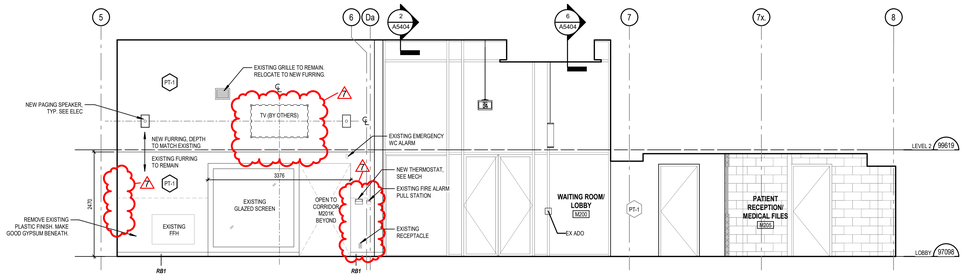

1 PATIENT LOBBY - NORTH ELEVATION
1 : 50

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1	MAY 2 2025	DD PROGRESS SET	MSAKS

REVISIONS

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DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

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INTERIOR ELEVATIONS - PATIENT LOBBY

SCALE:	1 : 50
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	04/29/25

DRAWING NUMBER:
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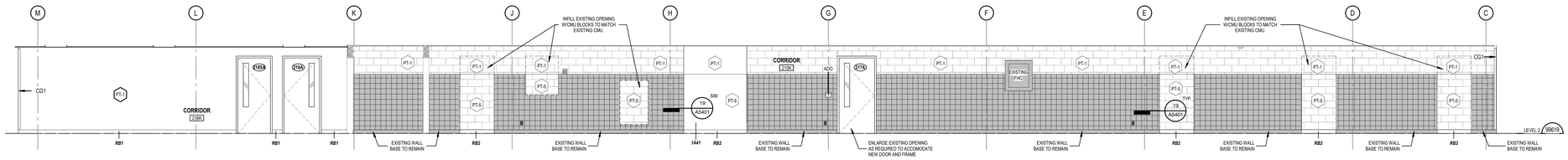

13 EAST ELEVATION - CORRIDOR 216K AND 210K
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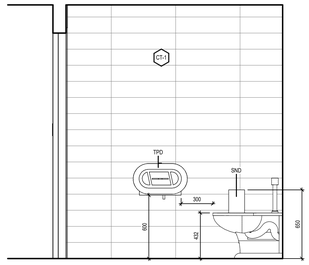

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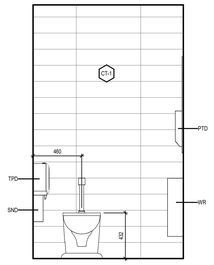

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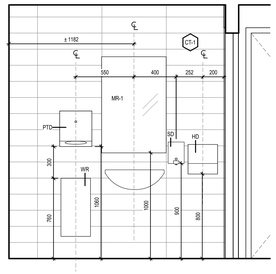
1 : 20



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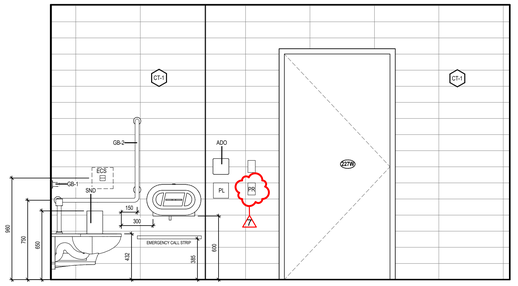

5 UNIVERSAL WC - SOUTH ELEVATION
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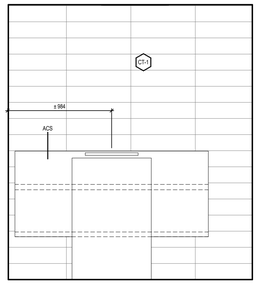

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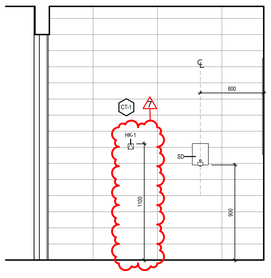

9 BF WC 210A - SOUTH
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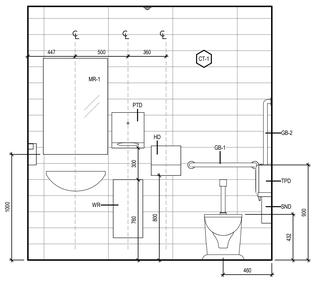

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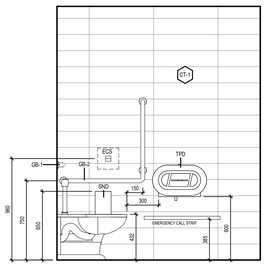

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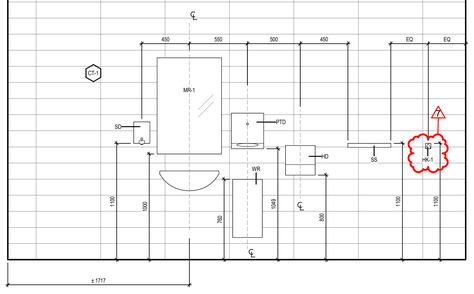

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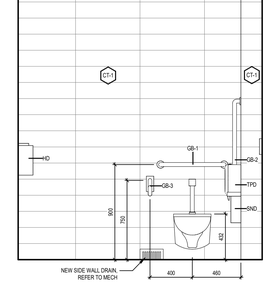

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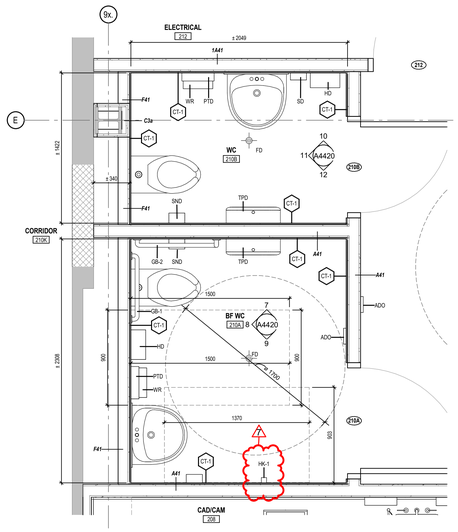

6 CLINIC WASHROOMS PLAN
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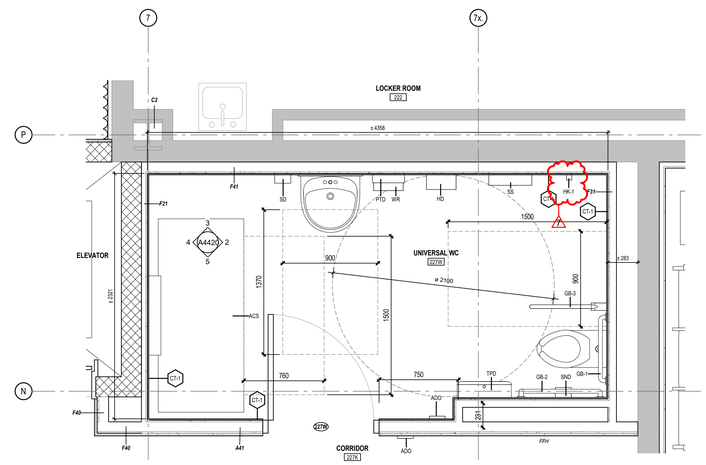

1 UNIVERSAL WASHROOM PLAN
1 : 20

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REVISIONS

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UNIVERSITY OF TORONTO DENTISTRY BUILDING - CLINIC 2 RENOVATION

24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

WASHROOM & CORRIDOR PLANS, ELEVATIONS & SECTIONS

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	04/29/25

DRAWING NUMBER:
A4420

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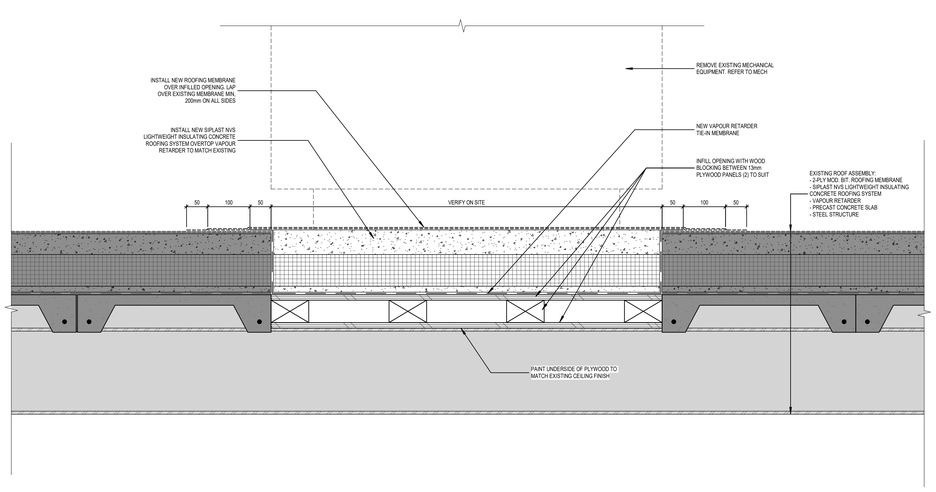
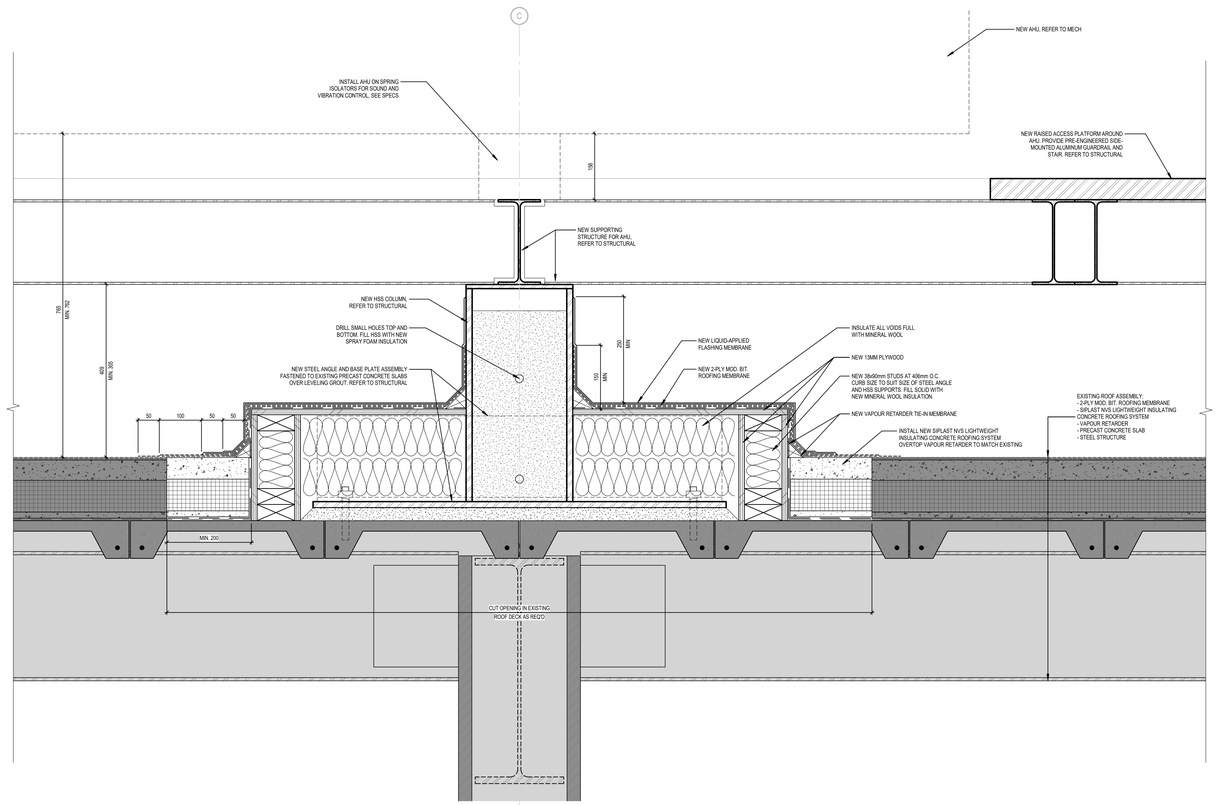
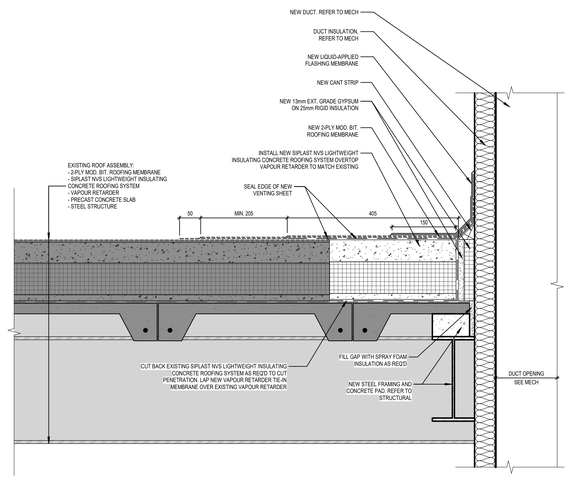


4 SECTION DETAIL - PENETRATION INFILL @ THIRD FLOOR ROOF, TYP.
1 : 5



3 SECTION DETAIL - NEW AHU @ THIRD FLOOR ROOF
1 : 5

5



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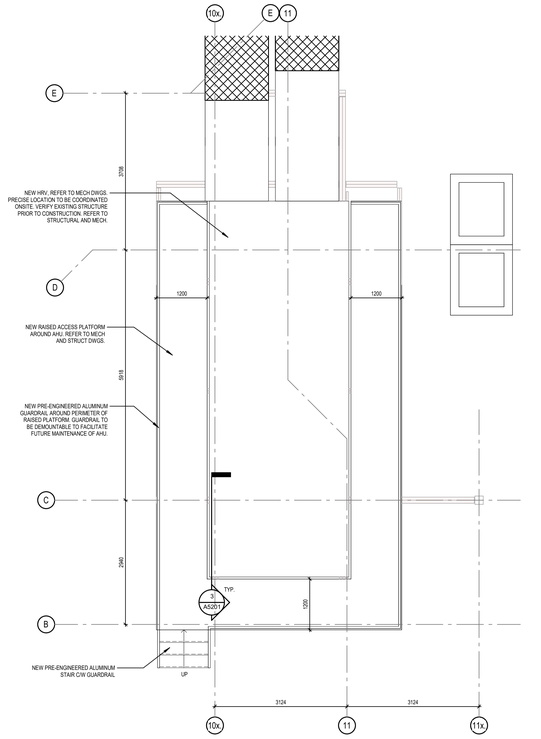

1 PARTIAL THIRD FLOOR ROOF PLAN - NEW HRV UNIT
1 : 50

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ROOF DETAILS

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	09/05/25

DRAWING NUMBER:
A5201

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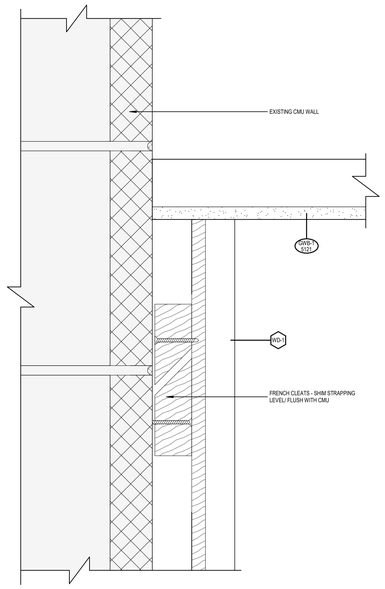

10 SECTION DETAIL - HEADER
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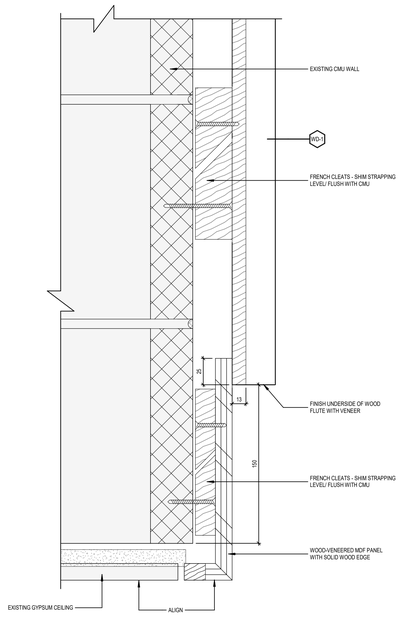

9 SECTION DETAIL - BASE
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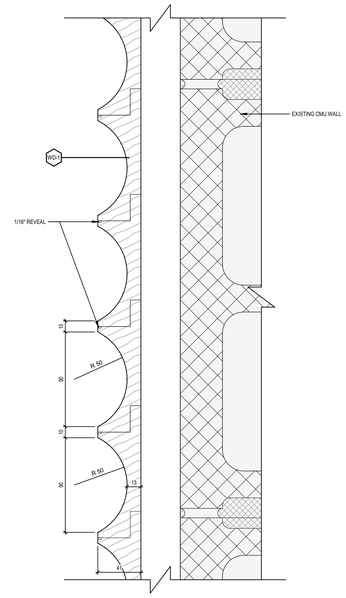
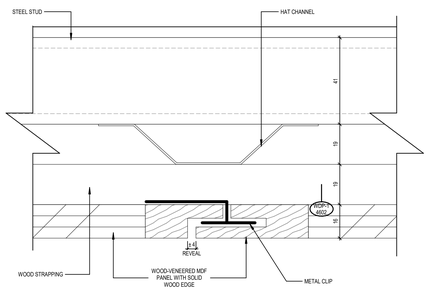


8 PLAN DETAIL - FLUTED WOOD WALL
1 : 2



7 SECTION DETAIL - WOOD PANEL JOINT
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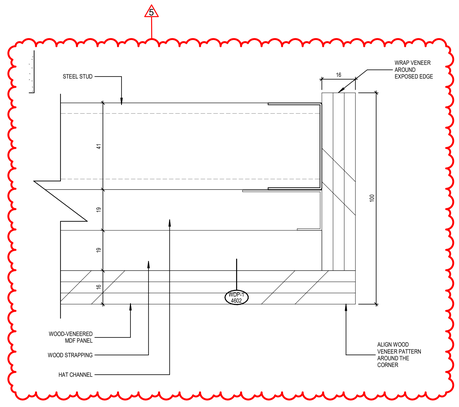

5 SECTION DETAIL - WOOD PANEL CORNER
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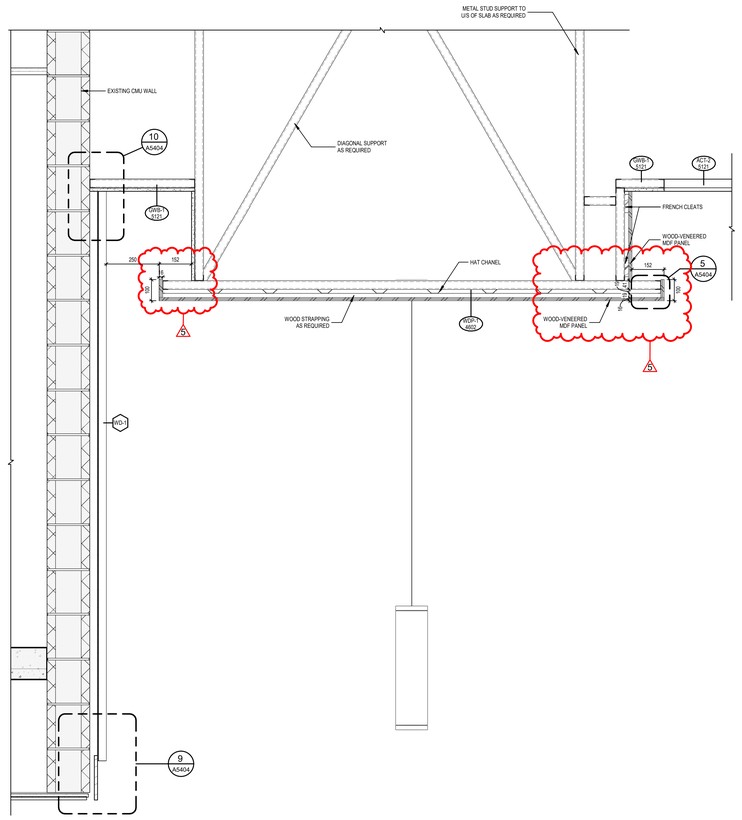

3 SECTION DETAIL - WOOD CEILING BULKHEAD
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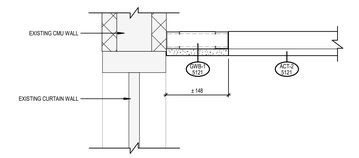
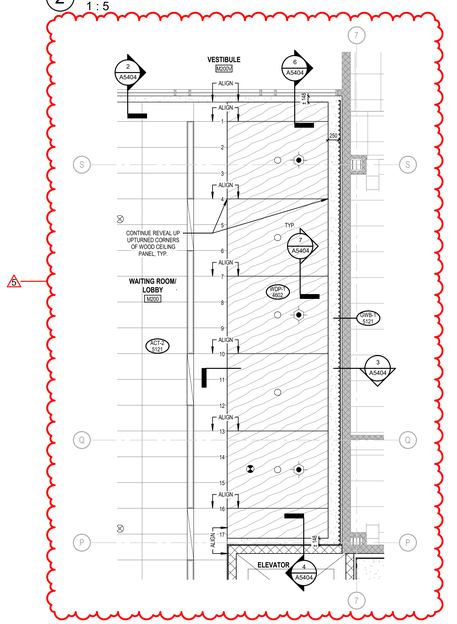


2 SECTION DETAIL - GWB AT CURTAIN WALL
1 : 5



1 ENLARGED PLAN - WOOD CEILING
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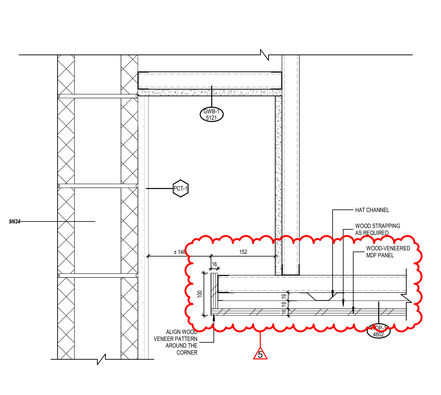

6 SECTION DETAIL - WOOD CEILING AT CURTAIN WALL
1 : 5

4 SECTION DETAIL - WOOD CEILING AT TILE
1 : 5

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#	DATE:	REVISION:	BY:
5	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
4	MAY 29 2026	ISSUED FOR TENDER	MSAKS
3	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
2	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
1	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS

REVISIONS

ALL DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND INFORMATION ON SITE AND REPORT ANY DISCREPANCY TO ARCHITECT BEFORE PROCEEDING.

UNIVERSITY OF TORONTO DENTISTRY BUILDING - CLINIC 2 RENOVATION

24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

INTERIOR DETAILS - PLANS & SECTIONS

SCALE: As indicated
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 09/24/25

DRAWING NUMBER:
A5404

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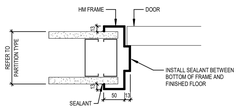
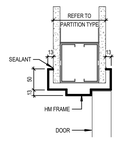
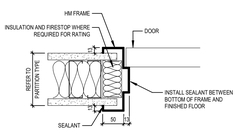
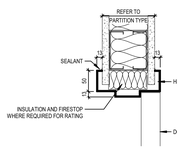
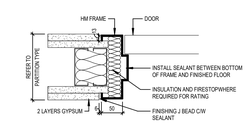
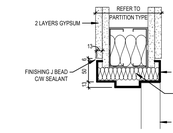
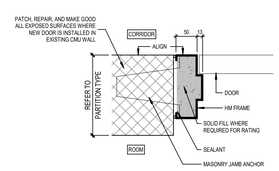
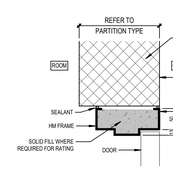
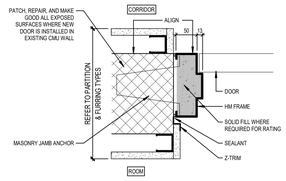
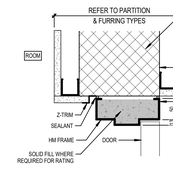
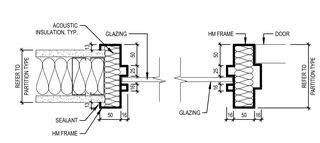
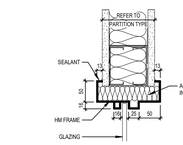
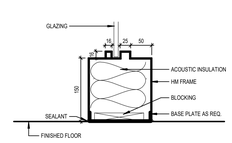
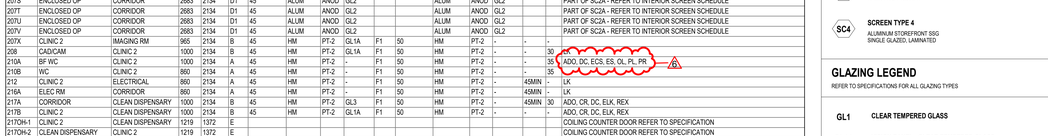
TYP. DOOR AND FRAME DETAILS

	JAMB DETAILS	HEADER DETAILS	SILL DETAILS
HM FRAME DOOR @ GWB (NON-RATED)			
HM FRAME DOOR @ GWB (1HR FRR WALL OR LESS)			
HM FRAME DOOR @ GWB (1.5HR FRR WALL OR MORE)			
HM FRAME DOOR @ CMU (RATED OR NON-RATED)			
HM FRAME DOOR @ CMU W/FURRING (RATED OR NON-RATED)			
HM FRAME SIDELITE @ GWB (ACOUSTIC) SCREEN TYPE SC1			

DOOR SCHEDULE

DOOR NUMBER	FROM ROOM	TO ROOM	PANEL WIDTH	PANEL HEIGHT	PANEL TYPE	PANEL THICKNESS	PANEL MATERIAL	PANEL FINISH	PANEL GLAZING	FRAME TYPE	FRAME THICKNESS	FRAME MATERIAL	FRAME FINISH	FRAME GLAZING	FRR	STC	COMMENTS
LEVEL 1																	
124K	CORRIDOR	CORRIDOR	1580	2134	BB	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	-	ADO ON BOTH LEAFS, EPH
134	CORRIDOR	MULTIFUNCTIONAL TRAINING RM	1000	2134	C	45	HM	PT-2	GL1A	-	50	HM	PT-2	GL1	-	35	LK, PART OF SC1 - REFER TO INTERIOR SCREEN SCHEDULE
135K	CORRIDOR	CORRIDOR	915	2134	A	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	-	NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
135S	STAIR	CORRIDOR	1830	2134	BB	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	1.5HR	-	HO
LEVEL 2																	
202K	CORRIDOR	VESTIBULE	915	2134	A	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	-	ADO, ES
202V	CLINIC 2	VESTIBULE	915	2134	A	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	-	ADO, CR, DC, EPH, REX
207A	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207B	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207C	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207D	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207G	SPECIAL NEEDS OP	CORRIDOR	2683	2134	D2	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2		35	PART OF SC2B - REFER TO INTERIOR SCREEN SCHEDULE
207H	CORRIDOR	ELECTRICAL	915	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	1HR	-	LK
207J	AODA OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207K	SPECIAL NEEDS OP	CORRIDOR	2683	2134	D2	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2		35	PART OF SC2B - REFER TO INTERIOR SCREEN SCHEDULE
207M	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207N	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207P	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207Q	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207S	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207T	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207U	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207V	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2			ALUM	ANOD	GL2			PART OF SC2A - REFER TO INTERIOR SCREEN SCHEDULE
207X	CLINIC 2	IMAGING RM	965	2134	B	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	-	
208	CAD/CAM	CLINIC 2	1000	2134	B	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	30	
210A	BF WC	CLINIC 2	1000	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	-	35	ADO, DC, ECS, ES, OL, PL, PR
210B	WC	CLINIC 2	860	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	-	35	PT-2
212	CLINIC 2	ELECTRICAL	860	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	45MIN	-	LK
216A	ELEC RM	CORRIDOR	860	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	45MIN	-	LK
217A	CORRIDOR	CLEAN DISPENSARY	1000	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	30	ADO, CR, DC, ELK, REX
217B	CLINIC 2	CLEAN DISPENSARY	1000	2134	B	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	-	ADO, CR, DC, ELK, REX
217OH-1	CLINIC 2	CLEAN DISPENSARY	1219	1372	E												COILING COUNTER DOOR REFER TO SPECIFICATION
217OH-2	CLEAN DISPENSARY	CLINIC 2	1219	1372	E												COILING COUNTER DOOR REFER TO SPECIFICATION
218A	CORRIDOR	DIRTY DISPENSARY	1000	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	30	ADO, CR, DC, ELK, REX
218B	CLINIC 2	DIRTY DISPENSARY	1000	2134	B	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	-	ADO, CR, DC, ELK, REX
218OH-1	DIRTY DISPENSARY	CLINIC 2	1524	1372	E												OVERHEAD DOOR REFER TO SPECIFICATION
218SA	CORRIDOR	STAIR	915	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	1.5HR	-	
218SB	STAIR	CORRIDOR	915	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	1.5HR	30	LK
219	CORRIDOR	RECEPTION	915	2134	A	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	30	LK
219A	CORRIDOR	WAITING	1000	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	30	ADO, CR, DC, EPH, REX
219C	WAITING	CORRIDOR	1000	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	45MIN	30	ADO, CR, DC, ELK, REX
219K	CORRIDOR	CORRIDOR	1580	2134	BB	45	HM	PT-2	EX	F1	50	HM	PT-2	-	45MIN	-	EXISTING DOOR AND FRAME TO REMAIN, APPLY NEW PAINT FINISH. EXISTING ADO TO REMAIN. RECERTIFY FRR
219OH-1	RECEPTION	WAITING	2092	1702	E												OVERHEAD DOOR REFER TO SPECIFICATION
219OH-2	CORRIDOR	RECEPTION	3930	1702	E												OVERHEAD DOOR REFER TO SPECIFICATION
219OH-3	WAITING	RECEPTION	2092	1702	E												OVERHEAD DOOR REFER TO SPECIFICATION
220A	WAITING	IT	860	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
220B	WAITING	IT	680	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
226B	CORRIDOR	IMAGING RM	965	2134	B	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	-	
226C	CORRIDOR	STORAGE ROOM	915	2134	A	45	HM	PT-2	GL1A	F1	50	HM	PT-2	-	-	-	LK
226L	CORRIDOR	STAIR	864	2134	B	45	HM			EX	EX	EX					CR, DC, EPH, REX. NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
226S	CORRIDOR	STAIR	864	2134	B	45	HM	PT-2	-	EX	EX	EX	PT-2	-	1.5HR	-	CR, DC, EPH, REX. NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
227W	CORRIDOR	UNIVERSAL WC	1000	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	-	-	ADO, DC, ECS, ES, OL, PL, PR
LEVEL 3																	
319	WAITING AREA	STAIR	915	2134	B	45	HM	PT-2	GL3	F1	50	HM	PT-2	-	1.5HR	-	
319A	STORAGE	WAITING AREA	860	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	-	-	
LOBBY																	
M204S	STAIR	PATIENT RECEPTION/ MEDICAL FILES	714	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	1.5HR	-	NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
PARKING GARAGE																	
021E	PARKING GARAGE	ELEVATOR MACHINE RM	915	2134	A	45	HM	PT-2	-	F1	50	HM	PT-2	-	1HR	-	

DOOR PANEL TYPE ELEVATIONS SCALE 1:50



TYPE A

TYPE AA

TYPE B

TYPE BB

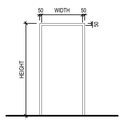
TYPE C
GLASS DOOR

TYPE D1
SINGLE SLIDING GLASS DOOR
REFER TO SCREEN TYPE SC2A/B

TYPE D2
SINGLE SLIDING GLASS DOOR
REFER TO SCREEN TYPE SC2A/B

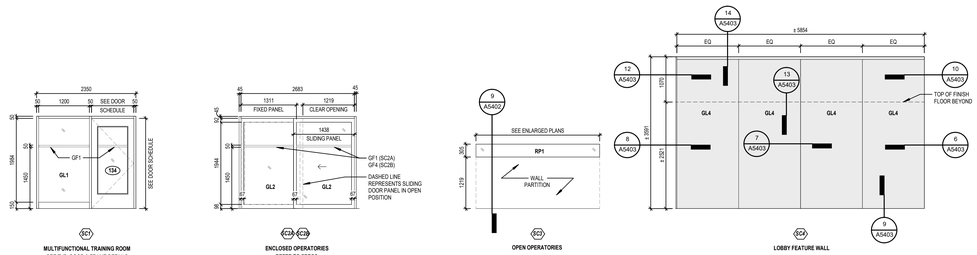
TYPE E
OVERHEAD COILING DOOR

FRAME TYPE ELEVATIONS SCALE 1:50



TYPE F1

INTERIOR SCREEN ELEVATIONS SCALE 1:50



MULTIFUNCTIONAL TRAINING ROOM
SEE TYP. DOOR & FRAME DETAILS

ENCLOSED OPERATORIES
REFER TO SPECS

OPEN OPERATORIES

LOBBY FEATURE WALL

INTERIOR SCREEN GENERAL NOTES

1. COORDINATE DOOR JAMB WIDTHS IN SCREENS DURING SHOP DRAWINGS.
2. PROVIDE SUPPORTS AND ANCHORS AT SCREEN HEAD, SILL, AND JAMB AS REQUIRED

INTERIOR SCREEN LEGEND

REFER TO SPECIFICATIONS FOR ALL INTERIOR SCREEN TYPES

- **SC1** — **SCREEN TYPE 1**: HOLLOW METAL DOORS & FRAMES; SINGLE GLAZED; ACOUSTIC
- **SC2A** — **SCREEN TYPE 2A**: ALUMINUM SLIDING DOOR; SINGLE GLAZED
- **SC2B** — **SCREEN TYPE 2B**: ALUMINUM SLIDING DOOR; SINGLE/DOUBLE GLAZED; ACOUSTIC
- **SC3** — **SCREEN TYPE 3**: RESIN PANEL DIVIDER
- **SC4** — **SCREEN TYPE 4**: ALUMINUM STOREFRONT SSG; SINGLE GLAZED, LAMINATED

GLAZING LEGEND

REFER TO SPECIFICATIONS FOR ALL GLAZING TYPES

- **GL1** — **CLEAR TEMPERED GLASS**
- **GL1A** — **VISION PANEL - CLEAR TEMPERED GLASS**
- **GL2** — **CLEAR LAMINATED GLASS**
- **GL3** — **CLEAR FIRE-RATED GLASS**
- **GL4** — **CLEAR GUARDRAIL GLASS**: 6mm TEMPERED & LAMINATED GLASS PANEL; GRADIENT FILM INTERLAYER; 6mm TEMPERED & LAMINATED GLASS PANEL
- **RP1** — **RESIN PANEL**

GLAZING FILM LEGEND

REFER TO SPECIFICATIONS FOR ALL GLAZING FILM TYPES

- **GF1** — **GLASS FILM TYPE 1**: OPAQUE SAFETY VISUAL CUES
- **GF2** — **GLASS FILM TYPE 2**: SOLID OPAQUE FILM ON INTERIOR WINDOWS
- **GF3** — **GLASS FILM TYPE 3**: TRANSLUCENT FILM ON EXTERIOR WINDOWS
- **GF4** — **GLASS FILM TYPE 4**: OPAQUE SAFETY VISUAL CUES

INTERIOR GLAZING GENERAL NOTES

1. PROVIDE SAFETY VISUAL CUES IN ALL TRANSPARENT GLASS PANELS. EXCEPTIONS ARE INSTANCES WHERE: THE GLAZING BEGINS AT 915 FROM FINISHED FLOOR; OPAQUE GLAZING FILM IS ALREADY PROVIDED; OR PROVISION OF GLAZING FILM WITH PATTERN WHICH CLEARLY INDICATES PRESENCE OF A SOLID SURFACE. PATTERN OF SAFETY INDICATORS TO BE CHOSEN BY CONSULTANT
2. IF GLAZING TYPE IS NOT NOTED, ASSUME GF-1

DOOR SCHEDULE ABBREVIATIONS

DOOR

ALUM	ALUMINUM
HM	HOLLOW METAL
PT	PAINT
EX	EXISTING

SECURITY

ADO	AUTOMATIC DOOR OPERATOR
CR	CREDENTIAL READER
DC	DOOR CONTACT
ECS	EMERGENCY CALL SYSTEM
ELK	ELECTRONIC LOCKSET
EPH	ELECTRIFIED PANIC HARDWARE
ES	ELECTRIC STRIKE
HO	HOLD OPEN DEVICE
LK	INTEGRATED ELECTRONIC LOCKSET & CARD READER
OL	OCCUPIED INDICATOR
PL	PUSH TO LOCK
PR	PRESS TO RESET
RX	REQUEST TO EXIT

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Kahler Slater

#	DATE:	REVISION:	BY:
6	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
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UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

SCHEDULE - DOORS AND SCREENS

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	10/17/22

DRAWING NUMBER:
A6102

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Design Discipline

Documents prepared by the respective Consultants are designated by the following discipline symbols:

- Owner (O)
- Architect (A)
- Electrical Consultant (E)
- Elevator Consultant (ELEV)
- Hardware Consultant (H)
- Mechanical Consultant (M)
- Structural Consultant (S)
- Sustainability Consultant (SUS)

VOLUME 1
(Divisions 0-14)

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

Document	Title	Discipline	Pages
	Cover Page	A	1
00 01 05	List of Consultants	A	2
00 01 10	Table of Contents (Volume 1)	A	4
00 31 00	Available Project Information	A	2
Refer to Owner's Document 0 Bidding Sections under separate cover.		O	

DIVISION 01 - GENERAL REQUIREMENTS

Section	Title	Discipline	Pages
Refer to Owner's Division 1 Sections under separate cover.		O	

DIVISION 02 - EXISTING CONDITIONS

Section	Title	Discipline	Pages
02 40 00	Demolition and Removals	A	9

DIVISION 03 - CONCRETE

Section	Title	Discipline	Pages
Refer to Structural Drawings for Structural Specifications.		S	
03 51 13	Cementitious Topping	A	3

DIVISION 04 - MASONRY

Section	Title	Discipline	Pages
04 22 00	Concrete Block Masonry	A	9

DIVISION 05 - METALS

Section	Title	Discipline	Pages
Refer to Structural Drawings for Structural Specifications.		S	
05 50 00	Miscellaneous and Metal Fabrications	A	12
05 59 00	Non-Penetrating Stairs and Guards	A	4

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

Section	Title	Discipline	Pages
06 10 00	Rough Carpentry	A	4
06 20 00	Finish Carpentry	A	10

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section	Title	Discipline	Pages
07 01 10	Existing Waterproofing Alterations	A	2
07 16 00	Cementitious Waterproofing	A	6
07 19 00	Water Repellent Sealer	A	4
07 21 00	Thermal Insulation	A	2
07 50 00	Roof Repair Work	A	***12***
07 81 16	Fireproofing	A	7
07 81 23	Intumescent Fireproof Coating	A	5
07 85 00	Firestopping and Smoke Seals	A	10
07 92 00	Sealants	A	5

DIVISION 08 - OPENINGS

Section	Title	Discipline	Pages
08 11 13	Metal Doors and Frames	A	7
08 11 16	Interior Glazed Aluminum Doors and Partitions	A	5
08 11 18	Interior Glazed Aluminum Screen/Guard	A	5
08 33 13	Coiling Counter Doors	A	4
08 71 00	Door Hardware	H	20
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08 80 00	Glazing	A	8

DIVISION 09 - FINISHES

Section	Title	Discipline	Pages
09 01 62	Terrazzo Restoration	A	6
09 21 16	Gypsum Board	A	16
09 27 00	Decorative Trowelled Finishes	A	4
09 30 00	Tile	A	7
09 30 27	Detectable/Tactile Indicators	A	4
09 51 00	Acoustical Ceilings	A	6
09 65 13	Resilient Base	A	3
09 65 16	Resilient Sheet Flooring	A	6
09 65 19	Resilient Tile Flooring	A	5
09 66 23	Epoxy Terrazzo Flooring	A	5
09 66 24	Precast Terrazzo Stair Units	A	5
09 67 23	Resinous Flooring	A	5
09 67 70	Waterproof Flooring	A	5
09 67 72	Concrete Floor Sealer	A	4
09 81 00	***Acoustical Materials***	***A***	***2***
09 91 00	Painting	A	9

DIVISION 10 - SPECIALTIES

Section	Title	Discipline	Pages
10 28 13	Washroom Accessories	A	5
10 80 00	Miscellaneous Specialties	A	5

DIVISION 11 - EQUIPMENT

Section	Title	Discipline	Pages
11 32 00	Owner Supplied and Contractor Installed Items	A	4

DIVISION 12 - FURNISHINGS

Section	Title	Discipline	Pages
12 21 13	Windows Coverings	A	4

DIVISION 13 - SPECIAL CONSTRUCTION

Section	Title	Discipline	Pages
13 49 00	Radiation Protection	A	8

DIVISION 14 - CONVEYING SYSTEMS

Section	Title	Discipline	Pages
14 20 00	Hydraulic Elevators	ELEV	18

VOLUME 2

Refer to Volume 2 package for Divisions 20 - 33.

VOLUME 3

Refer to Volume 3 package for reports and reference documents.

END OF DOCUMENT

1 General

1.1 **SECTION INCLUDES**

.1 Provide work of this Section including but not limited to the following:
.1 Cut openings through existing roofing to accommodate new penetrations.
.2 Make good roofing around new penetrations.

1.2 **REFERENCES**

.1 ***ASTM A653/A653M, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.***

.2 ***ASTM C150, Standard Specification for Portland Cement.***

.3 ***ASTM C332, Standard Specification for Lightweight Aggregates for Insulating Concrete.***

.4 ASTM C920, Specification for Elastomeric Joint Sealants.

.5 CGSB 37-GP-15M, Application of Asphalt Primer for Asphalt Roofing, Dampproofing and Waterproofing.

.6 ***CGSB 37-GP-56M, Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing.***

~~.3 CAN/ULC S704, Standard for Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced.~~

.7 CAN/ULC S107, Methods of Fire Tests of Roof Coverings.

.8 ***CAN/ULC-S710.1, Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Material Specification.***

.9 ***CAN/ULC-S710.2, Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 2: Installation.***

.10 FM (Factory Mutual), Roof Assembly Classifications.

.11 OIRCA, Ontario Industrial Roofing Contractors Association.

.12 ULC (Underwriters Laboratories of Canada), List of Equipment and Materials for Building Materials, Fire Resistance, and Fire-stop Systems and Components.

1.3 **DESIGN REQUIREMENTS**

.1 Conform to applicable local code for roof assembly fire hazard requirements.

.2 UL: Class B Fire Hazard Classification.

.3 FM: Roof Assembly Classification, of Class 1 Construction, wind uplift requirement of I-90, in accordance with FM 128.

.4 Design roof system to meet local Wind Uplift Requirements.

1.4 **SPECIAL SITE CONSTRUCTION**

.1 No bitumen kettles, torches or open flames are allowed on site. All roof components to be mechanically fastened or adhered in adhesive.

.2 Interior protection for work to be provided by Contractor.

.3 Minimize disruptions to regular building activities. Noisy work to be performed outside of regular office/operating hours. Arrange special access and times to project site with the Owner’s designee.

.4 Staging area to be determined on site with the Consultant and Owner.

.5 All salvaged flashings, cleats, and hook strips from the designated roof replacement areas to be recycled and subsequent value credited to the Owner.

1.5 **SUBMITTALS**

.1 Provide initial schedule within five (5) working days after Contract award, showing anticipated progress stages and final completion of work. Work shall not commence before work schedule is provided.

.2 Product data: Submit manufacturer's Product data in accordance with the Conditions of the Contract indicating systems, materials, and methods of installation proposed for use, showing system and each component. Certify compliance of each component with applicable standards.

.3 Shop drawings: Submit shop drawings in accordance with the Conditions of the Contract indicating details of roof system, flashings, control joints, method of tying in existing vapour retarder with new vapour retarder, insulation, roofing membranes, ***grouting*** and similar items.

.4 Sample copy of Contractor's warranty.

1.6 **QUALITY ASSURANCE**

.1 Qualification: Perform work of this Section by a company that is a member in good standing of the Ontario Industrial Roofing Contractors Association (OIRCA) and has a minimum of 5 years proven acceptable roofing experience on installations of similar complexity and scope.

.2 Perform NVS system roofing work by contractors pre-approved by University of Toronto in accordance with existing roof warranty.

.3 Perform roofing work in accordance with the CRCA Roofing Specifications Manual and in accordance with membrane manufacturer's printed installation instructions.

1.7 **DELIVERY, STORAGE, AND HANDLING**

.1 All work to be conducted from the exterior using swing-stage, hoist, etc. If cranes or boom-trucks are required, written approval and permits are required from the Owner prior to arrival of any vehicle used for this purpose.

.2 Site storage is limited. Location of storage to be coordinated with ***and approved by*** Owner.

.3 All materials shall be delivered and stored in their original packaging bearing the manufacturers label, grade and product weight, including all other related standards, specifications, and the like.

.4 All materials shall be adequately protected from inclement weather conditions and stored in a dry, well ventilated and weather protected location.

.5 Only materials to be installed on the same day shall be removed from the protected location to the work site.

.6 During extreme temperature, materials shall be stored in a heated location with a 4.4 deg. C minimum temperature and removed only as needed.

.7 Modified bitumen rolls shall be kept clear of all flame and/or spark’s when not being applied directly to the roof structure.

.8 All materials in a rolled configuration shall be stored on end, elevated off the ground on a pallet or skid, to protect the bottom surface from foreign debris and moisture.

.9 When possible, the Contractor should restrict stock piling of material in one location on the roof surface to prevent exceeding the specified deck live load capacity.

.10 Handle and store products in a manner to prevent damage and deterioration.

.11 Remove and replace damaged products at own expense and to the satisfaction of the Consultant.

1.8 **SITE CONDITIONS**

.1 Interruptions to Owners operations will not be permitted.

.2 Do not remove existing roofing system when weather conditions threaten the integrity of the building contents or intended continued occupancy.

1.9 **EXTENDED WARRANTY**

.1 At completion of this work, provide a signed OIRCA warranty to the Owner covering defects of workmanship for a period of 2 years commencing from Ready-for-Takeover. Agree to make good promptly any defects which occur or become apparent within the warranty period in conjunction with the membrane manufacture***r***'s warranty. Defects shall include but not be limited to leakage, failure to stay in place, lifting, and deformation.

.2 ***The existing roofing system is covered by a roofing warranty. Notify the warrantor and obtain necessary information regarding warranty requirements, to keep the warranty safe from breach of contract.***

.1 Warrant against failure to meet design criteria and requirements.

2 Products

2.1 **MATERIALS**

.1 General:

.1 The existing roofing is a lightweight insulated concrete system with 2-ply modified bitumen in a conventional assembly.

.2 Verify actual system in the field by means of a simple cut test and report to the Consultant result of test. Make good cut areas.

.2 Roofing system components:

.1 Vapour retarder/base sheet: Adhesive grade modified bitumen, minimum thickness 3.0 mm, with minimum 180 g/m^2, random fibre glass mat or non-woven polyester, impregnated and coated with SBS modified bitumen, and conforming to CGSB 37-GP-56M; 'Paradiene 20 HV' by Siplast or 'Colply Base 410' by Soprema.

.2 Vapour retarder/base flashing: Self-adhering grade modified bitumen, minimum 3.0 mm thick, with random fibre glass mat impregnated and coated with SBS modified bitumen, and coated with self-adhesive bitumen layer and polyolefin release film on bottom surface, and conforming to CGSB 37- GP-56M; 'Paradiene 20 EG SA' by Siplast or 'Sopralene Stick Adhesive' by Soprema.

.3 Cap sheet: Adhesive grade modified bitumen, minimum thickness 3.6 mm, with minimum 250 g/m^2, fibreglass scrim/polyester composite impregnated and coated with SBS modified bitumen, and conforming to CGSB 37-GP-56M; 'Paradiene 30' by Siplast or 'Colply Traffic Cap 460' by Soprema.

.4 Cap flashing: Adhesive grade modified bitumen, minimum thickness 3.6 mm, with minimum 250 g/m^2, fibreglass scrim/polyester composite impregnated and coated with SBS modified bitumen, and conforming to CGSB 37-GP-56M; 'Parafor 30' by Siplast or 'Colply Traffic Cap 460' by Soprema.

.5 Membrane primer: Solvent based primer to prepare surfaces before the installation of membranes, 'PA-1125 Primer' by Siplast or 'Elastocol Stick' by Soprema.

.6 Membrane adhesive: Solvent based adhesive; 'PA-311 Adhesive' by Siplast or 'Colply Adhesive Brush' for horizontal surfaces and 'Colply Adhesive Trowel Grade' for sloped surfaces by Soprema.

.3 NVS insulating system:

.1 Insulation boards: Type I expanded polystyrene, minimum 25 mm in thickness, with thirty 25 mm diameter holes and thirty slots, or thirty hole-slot combinations per board. Individual boards to no more than 1.2 m x 1.2 m in size. Boards to be factory cut and mitred by Plasti-Fab Inc., Everest Supply Inc., Beacon or approved equivalent. Where possible thermal resistance of a minimum of R-25. Where possible, a minimum roof slope of 1% is required.

.2 Portland cement: Portland cement conforming to Type I, II or III as defined by ASTM C150.

.3 Vermiculite aggregate: Vermiculite concrete aggregate conforming to ASTM C332 with a ratio of 1:3.5 by volume.

.4 Water purity: Potable water containing no more than 250 ppm of free chloride ions.

~~.2 Roofing system components:~~

~~.1 Roofing and flashing membrane: 2-ply SBS modified bitumen, mopping grade, with granulated cap sheet.~~

~~.2 Bitumen: Asphalt conforming to CSA A123.4-M, Type 2 for roofing and Type 3 for base flashings and installation of insulation.~~

~~.3 Insulation: CAN/ULC-S704, Type 3; closed cell polyisocyanurate. Provide appropriate cover board.~~

~~.4 Vapour barrier: To match existing.~~

~~.5 Miscellaneous components: To match existing.~~

.4 Prepainted sheet steel: ASTM A653/A653M; Classification LFQ, Grade A, Z275 zinc coating designation, 0.60 mm minimum base steel thickness, commercial quality, prefinished with 'Perspectra Series' coating system by ArcelorMittal Dofasco or 'WeatherXL' by Vicwest Steel. Colour: To match existing.

.5 Fasteners: Of same material as sheet metal secured, of type, length and size suitable for the particular conditions. ***Types as recommended by manufacturer.***

.6 Dimension lumber: Grade stamped, dressed, kiln dried lumber having a maximum moisture content at time of installation, of 15% for 50 mm or less in thickness, and 19% for stock over 50 mm thick in accordance with NLGA.

.7 Roof lumber: NLGA, 122b-Construction Light Framing Grade Jack Pine, S4S, pressure treated to CAN/CSA O80-M using CCA waterborne preservative treatment, impregnated to a net retention of 0.25 lbs/cu.ft. Treated lumber shall bear quality assurance grade stamp of certifying agency.

.8 Sealant: In accordance with ASTM C920 and compatible with roofing system components.

.9 Spray foam insulation: CAN/ULC-S710.1, closed cell, polyurethane foam-in-place moisture cured sealant insulation, CFC free, 16 kg per m^3 to 32 kg per m^3 density; injected from prepackaged pressurized containers.

.10 Stack flashing units and roof drains: By Division 22.

.11 Liquid applied resin membrane flashing:

.1 Flexible, reinforced, monolithic waterproof flashing membrane constructed on site using minimum two coats of polyurethane and bitumen blended resin or modified polymer based resin, complete with polyester or fleece mesh reinforcement.

.2 Acceptable system: 'Alsan Flashing and Reinforcement' by Soprema Inc. or approved alternative.

2.2 FABRICATION

.1 Fabricate and install metal flashings to detail shown on reviewed shop drawings and in accordance with CRCA.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of Work means acceptance of existing conditions.

3.2 **WORKMANSHIP**

.1 Execute roofing work which is not specifically covered by these Specifications, is in accordance with applicable standards in Canadian Roofing Contractors Association (CRCA), the Canadian Modified Bitumen Manufacturer's Association's recommendations, manufacturer's preprinted and published specifications and to ULC S107, to FM 1-28 and 1.49 criteria, compliance with local fire insurance requirements and/or local building codes, except where specified otherwise.

.2 Do priming for asphalt roofing in accordance with CAN/CGSB 37-GP-15M and as recommended by membrane manufacturer.

.3 Adhesives or sealants and liquid primers will not be applied until surfaces are dry.

.4 Inspect the underside of roof deck when installing fasteners, where possible, to avoid accidental damage.

.5 While work is in progress, all steps must be taken to safeguard the building from damage due to the elements.

.6 Advise the Consultant of adjustments to specified roofing procedures recommended by the manufacturer or due to site conditions. Written approval is needed to make any adjustments to the specified procedures.

3.3 **PROTECTION**

.1 Existing roofing: Do not use existing roof areas as storage or work staging area, except to extent required in accomplishing work. Provide temporary protection boards as previously specified, and protect areas of work from precipitation while existing construction is open.

.2 Provide adequate protection to materials and Work of this Section from damage.

.3 Provide protection covering of 19 mm thick plywood underlaid with 25 mm thick polystyrene board adhered to plywood sheathing. Place protection covering over all roofed areas when working from, or over, such roof surfaces where the roofing membrane is exposed to potential damage.

.4 Cover walls and adjacent work where materials are hoisted and used.

.5 Use warning signs and barriers. Maintain in good order until completion of work.

.6 Protect roof from traffic and damage by placing suitable runways over all new membrane work. Comply with precautions deemed necessary by Consultant.

.7 At end of each day's work, or when stoppage occurs due to inclement weather, provide protection for completed work and materials out of storage.

.8 Contractor is to take care as not to damage any previously performed work, any closely located buildings and all grounds in the vicinity during roofing operations. Contractor shall protect against dust infiltration and other such occurrences. Garbage chutes are to be located as to minimize their exposure to the building and its occupants. Protect walls by means of tarpaulins where garbage chutes and hoisting equipment are located. Cover dumpsters and bins so that debris does not blow away.

.9 Only equipment that will not adversely affect the deck (damage or alter) is to be used.

.10 Roof access is to be unobstructed. Doorways and fire routes are to be kept clear of any obstacles.

.11 All non-used materials are to be removed and stored at a location that will prevent any damage (moisture, ultraviolet breakdown, etc.).

.12 Protect rolls from flattening by storing on ends on skids.

.13 Moisture sensitive products and exposed building substrates are to be protected with all work being halted during inclement weather including but not limited to rain fall, snow, drizzle, fog and hail.

.14 Protect all openings and safeguard all vents, stacks, and drains from weather and contamination from debris.

3.4 REMOVAL OF EXISTING ROOF

.1 Verify that existing roof surface is clear and ready for Work of this Section.

.2 Coordinate Work with removal and reinstallation of affected mechanical and electrical equipment and associated roof penetrations.

.3 At all locations where new openings are required in the existing roofing system, carefully cut and remove portions of existing roofing as required for remedial work required by this Section, including but not limited to cants, blocking and metal flashings. Seal all open roof edges to prevent damage to unfinished and undisturbed roof areas.

.4 Remove only enough existing roofing system materials that can be replaced with new roof system the same day of as the weather will permit in a day.

.5 Where sections of roof are removed or where new roofing are required. Cut back minimum of 230 mm outside line of opening or removal area to facilitate future flashing.

.6 Remove roofing system over area to be demolished. Cut roof decking with power tools to ensure straight edges. Leave free ends 300 mm maximum in length, unless adequately supported.

.7 Cut out damaged and deteriorated existing membrane sections in logical rectangular segments as required. Dispose of all debris and dirt to an appropriate site.

.8 Supply and install plywood catchboard immediately under areas to be cut, to protect structure interior from falling debris. Install catchboard in combination with dust/weather protection.

.9 Provide temporary protective sheeting over uncovered deck surfaces. Turn sheeting up and over parapets and curbing. Retain sheeting in position with weights or temporary fasteners. Provide for surface drainage from sheeting to existing drains.

.10 Do not permit traffic over unprotected or repaired deck surface.

3.5 **PREPARATION AND INSTALLATION**

.1 Clean roof back a sufficient distance to perform the cutting of openings and other work on the roof. Clean overlap area free from dirt and loose material with compressed air before proceeding with roofing work.

.2 After installation of new work, reinstate roofing system and provide sheet metal flashings as shown.

.3 Vapour retarder:

- ***.1 Install new modified bituminous vapour retarder and flashings* over *prepared substrate to provide a continuous vapour barrier.***
- ***.2 Apply cold adhesive using notched squeegee at rate recommended by manufacturer. Adhesive to be applied evenly, without skips, voids, or excessive amounts at any location.***
- ***.3 Lap vapour retarder sheets 76 mm for side laps and a minimum 152 mm for end laps ensuring that the polyethylene top film is properly hot air welded to form a watertight seal.***
- ***.4 Lap membrane flashing onto field membrane a minimum 152mm. Side laps between adjacent sheets to be a minimum of 127 mm wide.***
- ***.5 All side and end laps of the base sheet and base sheet flashing shall be hot air welded to the satisfaction of the Consultant.***
- ***.6 Application to be free of blisters, wrinkles and fish-mouths.***

~~.3 Vapour retarder:~~

~~.1 Lap vapour retarder ends and edges 50 mm minimum. Roll vapour retarder and laps for continuous adhesion over entire substrate area; use manufacturer's recommended roller.~~

~~.2 Cut and fit vapour retarder as required for passage of protrusions, ensuring continuous adherence to substrate and continuity with existing roof vapour barrier.~~

.4 Rough carpentry:

.1 ***Install cut cant strips on curbs as shown on Contract Drawings.***

.2 Install continuous wood nailers around roof openings at edges of insulation.

.3 Use ***manufacturer recommended*** ~~specified~~ fasteners for securing wood to deck.

.4 Pressure treated wood cut on the job shall have cut ends coated with a concentrated solution of wood preservative.

.5 NVS insulating system:

.1 ***Install NVS insulating system over prepared surface consisting of bottom pour of light weight concrete, expanded polystyrene insulation boards and a top pour of light weight insulating concrete in accordance with manufacturer's written instructions.***

.2 ***Areas with damaged concrete substrate must be repaired before any further work can take place on that particular roof section.***

.3 ***Dry out any areas of the existing lightweight concrete surfaces that are damp or wet. Repair any sections of the concrete substrates that are spalled or flaking with specified compound.***

.4 ***At the repair section, remove the existing lightweight concrete to a minimum depth of 25 mm or to sound concrete, whichever is greater.***

.5 ***Prior to application of patching compound, remove debris from the repair area and remove deteriorated concrete material down to a sound substrate.***

.6 ***Moisten the surface of the repair area with water.***

.7 ***Following the manufacturer's instructions for mixing product preparation and application.***

.8 ***Finish the surface of the patch area to a smooth surface.***

.9 ***Trowel finish any edges to provide a smooth transition to the surface of the existing substrate.***

~~.5 Insulation: Place insulation in tight contact with abutting surfaces. Cut insulation board through the board thickness and trim to provide plain butt joints; do not break or tear insulation board to fit detail. Verify method of existing insulation securement.~~

.6 Modified bitumen membrane repairs and installation:

.1 ***Patch and i***nstall modified bitumen membrane with new materials using the same type of membrane and bitumen already installed in the existing membrane system. All supplied roof materials to be compatible with the existing roof system components.

.2 ~~Cut out damaged and deteriorated existing membrane sections in logical rectangular segments as required. Dispose of all debris and dirt to an appropriate site.~~

.2 Use two (2) plies of new specified modified bitumen base sheet and cap sheet membrane with an attachment method appropriate for existing building and installation.

.3 Cap sheet membrane to have granulated surface where left exposed. Colour to match existing as close as possible.

.4 Install new modified bitumen base sheet across repair area and extend minimum ***150*** ~~102~~ mm past edge, onto existing modified bitumen membrane. Ensure a good bond to existing membrane. Self-adhering base sheet flashings to be installed with membrane primer as specified.

.5 Carry new modified bitumen cap sheet over new base sheet and extend a minimum of ***150*** ~~102~~ mm past edge, onto existing modified bitumen membrane. Ensure a good bond to existing membrane.

.6 All side and end laps of the base sheet and cap sheet shall be heat welded with hot air gun to the satisfaction of the Consultant.

.7 Modified bitumen flashing membrane repairs and installation:

.1 All modified bitumen membrane flashing repairs to be carried out with new modified bitumen flashings. All new roof materials to be compatible with the existing roof system components.

.2 Modified bitumen membrane flashing repairs are to consist of two (2) plies of new specified modified bitumen membrane using attachment method appropriate for existing building and installation.

.3 ***Extend new base sheet flashing onto flat roof surface approximately 250 mm from curb wall, over cant and past existing repair area as shown on drawings***. ~~Extend new base sheet flashings a minimum 102 mm past the existing repair area.~~ Self-adhering base sheet flashings to be installed with membrane primer as specified.

.4 ***Extend new base sheet flashing minimum 150 mm from flat roof surface, over cant and up curb wall surface as shown on drawings***.

.5 Carry new cap sheet flashing a minimum of 102 mm past the base sheet flashing. Ensure a good bond between the modified bitumen flashings.

.6 All side and end laps of the base sheet flashing and cap sheet flashing shall be heat welded with hot air gun to the satisfaction of the Consultant.

.8 Sheet metal flashings: Flash penetrations passing through the membrane.

.9 Sealant: Apply sealant where required to form weathertight seal between flashing and adjoining surfaces and between flashing and other work of this Section. Use primers and joint filler recommended by sealant manufacturer. Work shall consist of bedding between members where possible and with neatly formed bead where exposed.

.10 ***Fill voids and spaces as required at new roof penetrations with foam insulation in accordance with manufacturer's written instructions and to CAN/ULC-S710.2.***

.11 Liquid applied resin membrane flashings:

.1 Where specifically indicated in detail drawings and at any junctions where conventional installation of membrane flashings are not feasible, install new liquid applied resin flashing system.

.2 Resin system to be a layered application consisting of two coats of liquid resin encapsulating a layer of polyester or fleece mesh reinforcement.

.3 Tape off all areas to receive liquid applied resins in square or rectangular shapes. Finish installation to be neat and clean.

.4 Liquid applied resin flashing system to follow in accordance with manufacturer's written instructions and specifications.

.12 Make all repairs to existing roof as necessary in accordance with OIRCA requirements, best standard practice and to complete satisfaction of the Consultant.

3.6 ROOF ACCESSORIES

.1 Prior to application of membrane, set stack flashing units, and other roof penetration accessory units in accordance with manufacturer's Product data. Install removable cap per accessory manufacturer's Product data as applicable.

.2 Seal joints at items projecting through membrane watertight to acceptance of Consultant.

3.7 CLEAN-UP

.1 Clean up and remove from job site on a daily basis, all rubbish and surplus materials resulting from this work.

END OF SECTION

Changes Legend :

Change Type	Font Style	Font Color
Added/Changed	Bold-Underline	Green
~~Deleted~~	~~Bold-Strikethrough~~	~~Red~~

Legend:
Link to catalog cut sheet
Electrified Opening

Hardware Group No. 01

For use on Door #(s):
021E

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 114X102MM		652	IVE
1	EA	STOREROOM LOCK	L9080L 03B		626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED		626	UNK
1	EA	SURFACE CLOSER	4040XP REG		689	LCN
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)		BK	ZER

Hardware Group No. 02 DOOR OPERATOR

For use on Door #(s):
124K

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 114X114MM			652	IVE
2	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	ELEC FIRE EXIT HARDWARE	QEL-9849-L-BE-F-03-LBL 24 VDC		✓	626	VON
1	EA	ELEC FIRE EXIT HARDWARE	QEL-9849-L-BE-F-03-LBLAFL 24 VDC		✓	626	VON
2	EA	OH STOP	100S ADJ			630	GLY
2	EA	AUTO OPERATOR	4100LE DOUBLE OPERATOR CONTINUOUS HEADER. MOUNT PUSH SIDE		✓	689	HOR
2	EA	ACTUATOR	CM-60/2		✓	630	CAM
2	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
2	EA	MEETING STILE	8192AA X DR HT			AA	ZER
2	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)		✓		SCH
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	POWER SUPPLY	PS904 900-4RL KL900 120/240 VAC		✓	LGR	SCE

Hardware Group No. 03 SALTO

For use on Door #(s):
134

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 127X114MM		652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		626	SAL
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)		AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL		AA	ZER

NOTE: U OF T LOCK SHOP WILL SUPPLY SALTO HARDWARE FOR CONTRACTOR TO INSTALL AND LOCK SHOP WILL DO FINAL COMMISSIONING. TYPICAL

Hardware Group No. 03.1

For use on Door #(s):
207X 226B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 127X114MM		652	IVE
1	EA	CLASSROOM LOCK	L9070L 03B		626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED		626	UNK
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)		AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL		AA	ZER

Hardware Group No. 04

For use on Door #(s):
135K

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 114X114MM			652	IVE
1	EA	PASSAGE SET	L9010 03B			626	SCH
1	EA	OH STOP	100S			630	GLY
1	EA	SURFACE CLOSER	4040XP EDA ST-3068			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER

Hardware Group No. 05

For use on Door #(s):
135S

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 114X102MM			652	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP2			626	IVE
1	EA	CLASSROOM LOCK	L9070L 03B			626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	COORDINATOR	COR X FL			628	IVE
2	EA	SURFACE CLOSER	4040XP REG			689	LCN
2	EA	KICK PLATE	8400 205MM X LDW			630	IVE
2	EA	MAGNET	SEM7850 12V/24V/120V CONNECT TO FIRE PANEL		✓	689	LCN
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
1	EA	MEETING STILE	383AA X DR HT			AA	ZER

Hardware Group No. 06 DOOR OPERATOR

For use on Door #(s):
202K

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 114X114MM			652	IVE
1	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	ELEC FIRE EXIT HARDWARE	QEL-98-L-BE-F-03-CON 24 VDC		✓	626	VON
1	EA	AUTO OPERATOR	4100LE		✓	689	HOR
2	EA	ACTUATOR	CM-60/2		✓	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
1	EA	POWER SUPPLY	PS902 900-4RL KL900 120/240 VAC		✓	LGR	SCE

Hardware Group No. 07 CARD ACCESS/DOOR OPERATOR

For use on Door #(s):
202V

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 114X114MM NRP			652	IVE
1	EA	POWER TRANSFER	EPT10 CON			689	VON
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-98-L-NL-F-03-CON 24 VDC			626	VON
1	EA	RIM CYLINDER	U OF T SUPPLIED			626	UNK
1	EA	AUTO OPERATOR	4100LE			689	HOR
2	EA	ACTUATOR	CM-60/2			630	CAM
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
1	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)				SCH
1	EA	WIRE HARNESS	CON-6W				SCH
1	EA	SALTO CREDENTIAL READER	U OF T SUPPLIED			BLK	SAL
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL			BLK	SCE
1	EA	POWER SUPPLY	PS902 900-4RL KL900 120/240 VAC			LGR	SCE

OPERATIONAL DESCRIPTION:DOOR IS NORMALLY CLOSED AND LOCKED. OUTSIDE TRIM IS ALWAYS LOCKED AGAINST ENTRY.AUTHORIZED CREDENTIAL MOMENTARILY RELEASES ELECTRIC LATCH ALLOWING ENTRY. MECHANICAL KEY ALSO RETRACTS LATCHES ALLOWING ENTRY.OUTER ACTUATOR IS ENABLE/DISABLED BY ACCESS CONTROL TIME CLOCK. RX SWITCH (INTEGRAL TO LOCKING HARDWARE) MONITORS AUTHORIZED EGRESS.DOORCONTACT MONITORS WHEN DOOR OPENS AND CLOSES.FREE EGRESS AT ALL TIMES.WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 08

For use on Door #(s):

207A	207B	207C	207D	207G	207J
207K	207M	207N	207P	207Q	207S
207T	207U	207V			

Provide each SL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	HARDWARE	ALL HARDWARE BY DOOR SUPPLIER		UNK

Hardware Group No. 09 SALTO

For use on Door #(s):
207H 212

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 114X102MM			652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		✓	626	SAL
1	EA	SURFACE CLOSER	1461 REG STD			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER

Hardware Group No. 10 SALTO

For use on Door #(s):
226C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 114X102MM			652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		✓	626	SAL
1	EA	SURFACE CLOSER	1461 REG STD			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE

NOTE: U OF T LOCK SHOP WILL SUPPLY SALTO HARDWARE FOR CONTRACTOR TO INSTALL AND LOCK SHOP WILL DO FINAL COMMISSIONING. TYPICAL

Hardware Group No. 11 SALTO

For use on Door #(s):
208 219

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 127X114MM		652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		626	SAL
1	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4040XP REG ST-1630		689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ		689	LCN
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)		AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL		AA	ZER

Hardware Group No. 12 DOOR OPERATOR

For use on Door #(s):
210A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 127X114MM			652	IVE
1	EA	STOREROOM LOCK	L9080L 03B			626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	ELECTRIC STRIKE	6211 FS CON 12/16/24/28 VAC/VDC		✓	630	VON
1	EA	AUTO OPERATOR	7100 MOUNT PUSH SIDE		✓	689	HOR
1	EA	AURA PUSH TO LOCK PUSH TO OPEN COMBO SWITCH	CM-2520/4854SE1		✓		CAM
1	EA	AURA ILLUMINATED ACTUATOR	CM-45/455SE1		✓	630	CAM
3	EA	EMERGENCY STRIP 3' 0" LONG	NEXGEN(TAPESWITCH) TO READ: "EMERGENCY ALARM - PRESS FOR ASSISTANCE"(BLACK LETTERING ON YELLOW BACKGROUND)		✓		UNK
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL		✓	BLK	SCE
1	EA	LED OCCUPIED INDICATOR	CM-AF500		✓		CAM
1	**EA**	**PRESS TO RESET PUSH BUTTON**	**CM-8010/13**		✓	**630**	**CAM**
1	EA	ADVANCED LOGIC RELAY	CX-33		✓		CAM
1	EA	EMERG CALL KIT UNIV RESTRMS	CX-WEC10K2		✓		CAM
1	EA	POWER SUPPLY	PS902 KL900 120/240 VAC		✓	LGR	SCE

NOTE: REFER TO U OF T DRAWING DOC WR-04 FOR MOUNTING LOCATIONS OF TAPESWITCH

OPERATIONAL DESCRIPTION: DOOR NORMALLY CLOSED AND UNLOCKED. ON INGRESS, PRESS OUTSIDE ACTUATOR TO ACTIVATE DOOR OPERATOR OR PUSH/PULL ON LOCKSET LEVER. ONCE DOOR IS CLOSED AND LATCHED OCCUPANT DEPRESSES “PUSH TO LOCK” BUTTON TO SECURE OUTSIDE OF DOOR; DISABLING OUTSIDE ACTUATOR AND ELECTRIC STRIKE. MECHANICAL KEY OVERRIDE PROVIDES ACCESS. IF OCCUPANT IS IN DISTRESS, ACTIVATING THE EMERGENCY CALL SYSTEM DEVICE ACTIVATES AN AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE AND OUTSIDE THE WASHROOM.
EGRESS IS FREE AT ALL TIMES BY PRESSING ON INSIDE ACTUATOR TO ACTIVATE OPERATOR OR BY DEPRESSING ON INSIDE LOCKSET LEVER. UPON EGRESS DOOR IS UNLOCKED, OUTSIDE ACTUATOR IS ENABLED AND ELECTRIC STRIKE IS UNSECURE.
WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 13

For use on Door #(s):
210B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 114X102MM		652	IVE
1	EA	PRIVACY W DB & INDICATOR	L9456L 03B L583-363 OS-OCC		626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED		626	UNK
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)		AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL		AA	ZER

Hardware Group No. 14

For use on Door #(s):
220A 220B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 114X102MM NRP		652	IVE
1	EA	STOREROOM LOCK	L9080L 03B		626	SCH
1	EA	MORTISE CYLINDER	U OF T SUPPLIED - MEDECO CYL		626	MED
1	EA	SURFACE CLOSER	1461 CUSH STD		689	LCN
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)		BK	ZER

Hardware Group No. 15 SALTO

For use on Door #(s):
216A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 114X102MM NRP		652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED	✓	626	SAL
1	EA	SURFACE CLOSER	1461 CUSH STD		689	LCN
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)		BK	ZER

Hardware Group No. 16 CARD ACCESS/DOOR OPERATOR

For use on Door #(s):
217A 217B 218A 218B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 127X114MM			652	IVE
1	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	EU ELR MORTISE LOCK	L9692LEU 03B RX CON 12/24 VDC		✓	626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	AUTO OPERATOR	4100LE MOUNT PULL SIDE		✓	689	HOR
2	EA	ACTUATOR	CM-60/2		✓	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER
1	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)		✓		SCH
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	SALTO CREDENTIAL READER	U OF T SUPPLIED		✓	BLK	SAL
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL		✓	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-4RL KL900 120/240 VAC		✓	LGR	SCE

OPERATIONAL DESCRIPTION:DOOR IS NORMALLY CLOSED AND LOCKED. OUTSIDE TRIM IS ALWAYS LOCKED AGAINST ENTRY.AUTHORIZED CREDENTIAL MOMENTARILY RETRACTS LATCHBOLT ALLOWING ENTRY.DOOR OPERATOR ACTIVATED BY USING CREDENTIAL AND PRESSING OUTSIDE ACTUATOR. MECHANICAL KEY ALSO RETRACTS LATCH ALLOWING ENTRY.INSIDE ACTUATOR ALWAYS ACTIVE. RX SWITCH (INTEGRAL TO LOCKING HARDWARE) MONITORS AUTHORIZED EGRESS.DOOR CONTACT MONITORS WHEN DOOR OPENS AND CLOSES.FREE EGRESS AT ALL TIMES WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 17

For use on Door #(s):
217OH-1 217OH-2 218OH-1 219OH-1 219OH-2 219OH-3

Provide each RU door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	HARDWARE	ALL HARDWARE BY DOOR SUPPLIER			UNK

Hardware Group No. 18

For use on Door #(s):
218SA 319

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 114X114MM		652	IVE
1	EA	PASSAGE SET	L9010 03B		626	SCH
1	EA	SURFACE CLOSER	4040XP REG		689	LCN
1	EA	KICK PLATE	8400 205MM X LDW		630	IVE
1	EA	WALL STOP	WS401/402CVX		626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)		BK	ZER

Hardware Group No. 19 SALTO

For use on Door #(s):
218SB

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 114X114MM NRP			652	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		✓	626	SAL
1	EA	SURFACE CLOSER	4040XP REG			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER

Hardware Group No. 20 CARD ACCESS/DOOR OPERATOR

For use on Door #(s):
219A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 127X114MM NRP			652	IVE
1	EA	POWER TRANSFER	EPT10 CON			689	VON
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-9875-L-BE-F-03-CON 24 VDC			626	VON
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	AUTO OPERATOR	4100LE MOUNT PUSH SIDE			689	HOR
2	EA	ACTUATOR	CM-60/2			630	CAM
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER
1	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)				SCH
1	EA	WIRE HARNESS	CON-6W				SCH
1	EA	SALTO CREDENTIAL READER	U OF T SUPPLIED			BLK	SAL
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL			BLK	SCE
1	EA	POWER SUPPLY	PS902 900-4RL KL900 120/240 VAC			LGR	SCE

OPERATIONAL DESCRIPTION:DOOR IS NORMALLY CLOSED AND LOCKED. OUTSIDE TRIM IS ALWAYS LOCKED AGAINST ENTRY.AUTHORIZED CREDENTIAL MOMENTARILY RETRACTS LATCHBOLT ALLOWING ENTRY.DOOR OPERATOR ACTIVATED BY USING CREDENTIAL AND PRESSING OUTSIDE ACTUATOR. MECHANICAL KEY ALSO RETRACTS LATCH ALLOWING ENTRY.INSIDE ACTUATOR ALWAYS ACTIVE. RX SWITCH (INTEGRAL TO LOCKING HARDWARE) MONITORS AUTHORIZED EGRESS.DOOR CONTACT MONITORS WHEN DOOR OPENS AND CLOSES.FREE EGRESS AT ALL TIMES WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 21 CARD ACCESS/DOOR OPERATOR

For use on Door #(s):
219C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 127X114MM NRP			652	IVE
1	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	EU ELR MORTISE LOCK	L9692LEU 03B RX CON 12/24 VDC		✓	626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	AUTO OPERATOR	4100LE MOUNT PUSH SIDE		✓	689	HOR
2	EA	ACTUATOR	CM-60/2		✓	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER
1	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)		✓		SCH
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	SALTO CREDENTIAL READER	U OF T SUPPLIED		✓	BLK	SAL
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL		✓	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-4RL KL900 120/240 VAC		✓	LGR	SCE

OPERATIONAL DESCRIPTION:DOOR IS NORMALLY CLOSED AND LOCKED. OUTSIDE TRIM IS ALWAYS LOCKED AGAINST ENTRY.AUTHORIZED CREDENTIAL MOMENTARILY RETRACTS LATCHBOLT ALLOWING ENTRY.DOOR OPERATOR ACTIVATED BY USING CREDENTIAL AND PRESSING OUTSIDE ACTUATOR. MECHANICAL KEY ALSO RETRACTS LATCH ALLOWING ENTRY.INSIDE ACTUATOR ALWAYS ACTIVE. RX SWITCH (INTEGRAL TO LOCKING HARDWARE) MONITORS AUTHORIZED EGRESS.DOOR CONTACT MONITORS WHEN DOOR OPENS AND CLOSES.FREE EGRESS AT ALL TIMES WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 22 DOOR OPERATOR

For use on Door #(s):
227W

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 127X114MM			652	IVE
1	EA	STOREROOM LOCK	L9080L 03B			626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	ELECTRIC STRIKE	6211 FS CON 12/16/24/28 VAC/VDC		✓	630	VON
1	EA	OH STOP	100S ADJ			630	GLY
1	EA	AUTO OPERATOR	7100 MOUNT PULL SIDE		✓	689	HOR
1	EA	AURA PUSH TO LOCK PUSH TO OPEN COMBO SWITCH	CM-2520/4854SE1		✓		CAM
1	EA	AURA ILLUMINATED ACTUATOR	CM-45/455SE1		✓	630	CAM
3	EA	EMERGENCY STRIP 3' 0" LONG	NEXGEN(TAPESWITCH) TO READ: "EMERGENCY ALARM - PRESS FOR ASSISTANCE"(BLACK LETTERING ON YELLOW BACKGROUND)		✓		UNK
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	SET	SOUND GASKETING	475AA-S (1XW 2XH)			AA	ZER
1	EA	DOOR BOTTOM(MORTISE)	355AA X DR WIDTH UNDERCUT HM DOOR BOTTOMFOR ENGAGEMENT OF DOOR BOTTOM TO FLOOR MATERIAL			AA	ZER
1		LED OCCUPIED INDICATOR					
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL		✓	BLK	SCE
1	EA	LED OCCUPIED INDICATOR	CM-AF500		✓		CAM
1	**EA**	**PRESS TO RESET PUSH BUTTON**	**CM-8010/13**		✓	**630**	**CAM**
1	EA	ADVANCED LOGIC RELAY	CX-33		✓		CAM
1	EA	EMERG CALL KIT UNIV RESTRMS	CX-WEC10K2		✓		CAM
1	EA	POWER SUPPLY	PS902 KL900 120/240 VAC		✓	LGR	SCE

NOTE: REFER TO U OF T DRAWING DOC WR-04 FOR MOUNTING LOCATIONS OF TAPESWITCH

OPERATIONAL DESCRIPTION: DOOR NORMALLY CLOSED AND UNLOCKED. ON INGRESS, PRESS OUTSIDE ACTUATOR TO ACTIVATE DOOR OPERATOR OR PUSH/PULL ON LOCKSET LEVER. ONCE DOOR IS CLOSED AND LATCHED OCCUPANT DEPRESSES “PUSH TO LOCK” BUTTON TO SECURE OUTSIDE OF DOOR; DISABLING OUTSIDE ACTUATOR AND ELECTRIC STRIKE. MECHANICAL KEY OVERRIDE PROVIDES ACCESS. IF OCCUPANT IS IN DISTRESS, ACTIVATING THE EMERGENCY CALL SYSTEM DEVICE ACTIVATES AN AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE AND OUTSIDE THE WASHROOM.
EGRESS IS FREE AT ALL TIMES BY PRESSING ON INSIDE ACTUATOR TO ACTIVATE OPERATOR OR BY DEPRESSING ON INSIDE LOCKSET LEVER. UPON EGRESS DOOR IS UNLOCKED, OUTSIDE ACTUATOR IS ENABLED AND ELECTRIC STRIKE IS UNSECURE.
WITH LOSS OF POWER DOOR REMAINS LOCKED.

Hardware Group No. 23**- Not Used**

For use on Door #(s):

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 127X114MM NRP			652	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP2			626	IVE
1	EA	SALTO ELECTRONIC LOCK	U OF T SUPPLIED		✓	626	SAL
1	EA	COORDINATOR	COR X FL			628	IVE
2	EA	MOUNTING BRACKET	MB1/MB2 X SIZE TO SUIT			689	IVE
2	EA	SURFACE CLOSER	1461 CUSH STD			689	LCN
2	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
1	EA	MEETING STILE	383AA X DR HT			AA	ZER

Hardware Group No. 24

For use on Door #(s):
M204S

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 114X102MM NRP			652	IVE
1	EA	PASSAGE SET	L9010 03B			626	SCH
1	EA	SURFACE CLOSER	4040XP EDA ST-3068			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER

Hardware Group No. 25

For use on Door #(s):
219K

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	MORTISE CYLINDER	U OF T SUPPLIED - MEDECO CYL KEY SWITCH			626	MED
1	EA	HARDWARE	ALL HARDWARE TO REMAIN				UNK
1	EA	KEY SWITCH	653-1415 L2 ATS 12/24 VDC TO CONTROL ADO		✓	630	SCE

NOTE: USE ADO TO KEEP DOORS HELD OPEN. CONNECT ADO TO FIRE PANEL.

Hardware Group No. 26

For use on Door #(s):
319A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 114X102MM NRP			652	IVE
1	EA	STOREROOM LOCK	L9080L 03B			626	SCH
1	EA	MORTISE CYLINDER	U OF T LOCK SHOP SUPPLIED			626	UNK
1	EA	OH STOP	90S			630	GLY
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE

Hardware Group No. 27 CARD ACCESS

For use on Door #(s):
226L 226S

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
2	EA	HINGE	5BB1 114X102MM CONFIRM HINZE SIZE AND TYPE			652	IVE
1	EA	ELECTRIC HINGE	5BB1 114X102MM CON TW8		✓	652	IVE
1	EA	ELEC FIRE EXIT HARDWARE	RX-98-L-F-M996-03-FS-CON		✓	626	VON
1	EA	MORTISE CYLINDER	U OF T SUPPLIED - MEDECO CYL			626	MED
1	EA	SURFACE CLOSER	4040XP REG			689	LCN
1	EA	KICK PLATE	8400 205MM X LDW			630	IVE
1	EA	WALL STOP	WS401/402CVX			626	IVE
1	EA	GASKETING	188S-BK (1XW 2XH)			BK	ZER
1	EA	WIRE HARNESS	CON-____ (SIZE TO SUIT)		✓		SCH
1	EA	WIRE HARNESS	CON-6W		✓		SCH
1	EA	SALTO CREDENTIAL READER	U OF T SUPPLIED		✓	BLK	SAL
1	EA	DOOR CONTACT	679-05 __TO SUIT DOOR MATL		✓	BLK	SCE
1	EA	POWER SUPPLY	PS902 KL900 120/240 VAC		✓	LGR	SCE

OPERATIONAL DESCRIPTION:DOOR IS NORMALLY CLOSED AND LOCKED. OUTSIDE TRIM IS ALWAYS LOCKED AGAINST ENTRY.AUTHORIZED CREDENTIAL MOMENTARILY UNLOCKS TRIM ALLOWING ENTRY. MECHANICAL KEY ALSO RETRACTS LATCH ALLOWING ENTRY. RX SWITCH (INTEGRAL TO LOCKING HARDWARE) MONITORS AUTHORIZED EGRESS.DOOR CONTACT MONITORS WHEN DOOR OPENS AND CLOSES.FREE EGRESS AT ALL TIMES WITH LOSS OF POWER DOOR REMAINS UNLOCKED.

1 General

1.1 **SECTION INCLUDES**

.1 Design, labour, Products, equipment, tools, and services necessary for glass and glazing work in accordance with the Contract Documents.

1.2 **REFERENCES**

.1 ASTM C920, Specification for Elastomeric Joint Sealants.

.2 ASTM D2240, Test Method for Rubber Property - Durometer Hardness.

.3 ASTM E84, Test Method for Surface Burning Characteristics of Building Materials.

.4 CAN/CGSB-12.1-M, Tempered or Laminated Safety Glass.

.5 CAN/CGSB-12.3-M, Flat, Clear Float Glass.

.6 Glass Association of North America (GANA) Glazing Manual.

.7 NFPA 80, Standard for Fire Doors and Other Opening Protectives.

.8 ULC CAN4 S104-M, Standard Method for Fire Tests of Door Assemblies.

.9 ULC CAN4 S106-M, Standard Method for Fire Tests of Window and Glass Block Assemblies.

1.3 **DESIGN REQUIREMENTS**

.1 Design glazing work to accommodate live, dead, lateral, seismic, handling, transportation, and erection loads.

1.4 **SUBMITTALS**

.1 Shop drawings:
  .1 Submit shop drawings in accordance with the Conditions of the Contract indicating as a minimum:
    .1 Fabrication and erection of glazing elements indicating materials, thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

.2 Samples:
.1 Submit following samples in accordance with the Conditions of the Contract.
.2 Submit one sample of each type of glass.
.1 300 x 300 mm of laminated glass, clear and gradient pattern.
.2 300 x 300 mm of fire rated glass.
.3 300 x 300 mm of resin panels.
.4 300 x 300 mm of each glass film.

.3 Certificates: Submit manufacturer's certification that glass and glazing materials are compatible.

.4 Extended warranty: Submit extended warranty signed and registered by the manufacturer providing the warranty in the name of the Owner for the timeframe and coverage specified in this Section.

1.5 **QUALITY ASSURANCE**

.1 Installers qualifications: Perform work of this Section by a company that has a minimum of five years proven experience in the installation of glazing units of a similar size and nature.

.2 Fire Protective Rated Glass: Each lite shall bear permanent, nonremovable label of ULC certifying it for use in tested and rated fire protective assemblies.

1.6 **SITE CONDITIONS**

.1 Glaze with compounds, sealants, or tapes only when glazing surfaces are at temperatures over 4°C, and when positive that no moisture is accumulating on them from rain, mist, or condensation.

.2 When temperature of glazing surfaces is below 4°C, obtain from Consultant and material manufacturer approval of glazing methods and protective measures which will be used during glazing operations.

2 Products

2.1 **ACCEPTABLE MANUFACTURERS**

.1 Glass manufacturers:
.1 Cardinal Glass Industries.
.2 Guardian Industries.
.3 Vitro Architectural Glass.

2.2 **MATERIALS**

.1 General:
- .1 All materials under work of this Section, including but not limited to, primers, coatings, sealers, sealants, adhesives and cleaners are to have low VOC content limits.
- .2 All coatings of a similar type shall be applied in a single production run to ensure colour match.
- .3 Edges of glass shall be free from spalls, flake chips or rough chips which would be either visible or compromise the adhesion of the exterior weather seal or reduce the strength of glass when subjected to temperature differentials.

.2 Tempered glass **(TGL)**: CAN/CGSB-12.1-M, Type 2, Class B, Category II, clear, minimum 6 mm thick.

.3 Low iron glass, float and tempered **(LIFGL & LITGL)**:
- .1 CAN/CGSB-12.3-M or CAN/CGSB-12.1-M, clear low iron float or tempered glass as specified and scheduled, glazing quality, minimum thickness as specified, low iron content, colourless.
- .2 Acceptable Products: 'Ultra White Low Iron' by Guardian Industries or 'Starphire Ultra Clear Glass' by Vitro Architectural Glass.

.4 Low iron laminated glass, clear and patterned interlayers **(LGL)**:
- .1 Clear low iron laminated glass **(LGL1):** Clear low iron laminated glass to CAN/CGSB-12.1, Category II, consisting of two layers of 5 mm thick clear low iron float glass (LIFGL) as specified, sandwiching a 0.8 mm thick clear PVB interlayer. Nominal thickness of 11 mm.
- .2 Clear low iron tempered/laminated glass with gradient pattern **(LGL2):** Clear tempered/laminated glass to CAN/CGSB-12.1, Category II, consisting of two layers of 6 mm thick clear low iron tempered glass (LITGL) as specified, sandwiching a 0.8 mm thick PVB interlayer having a gradient pattern with white to clear colouring and matching Consultant approved samples. Nominal thickness of 13 mm.
- .3 PVB interlayer to be 'Butacite PVB' film by Dupont or approved alternative.

.5 Fire rated glass **(FRGL)**: 20 min. to 3 hr. fire rating tested to ULC CAN4 S104-M and ULC CAN4 S106-M, 8 mm thick or as otherwise noted on Door Schedule with appropriate labelling stating fire rating and approval, clear polished glass. Firelite Plus by Technical Glass Products or approved alternative.

.6 Decorative resin panels **(RP-1)**:
- .1 Minimum 12.7 mm thick, unless otherwise indicated, specially-formulated polyester resin, fire testing to ASTM E84, Class C with a flame spread of 95 and smoke density of 450.
- .2 Panels to be impact resistant and shatter proof.
- .3 Colour: To be selected by the Consultant from manufacturer's full colour range.
- .4 Acceptable Product: 'Chroma' by 3form Inc. or approved alternative.

.7 Glass films **(GF)**:
- .1 Vision strip/safety visual cues **(GF-1)**:
  - .1 Provide 50 mm wide opaque safety vision strips where indicated. For use on interior sliding glass doors as indicated.
  - .2 Opaque vision strip as selected by Consultant and manufactured by 3M or approved alternative.
- .2 Opaque film **(GF-2)**: Opaque glass film as selected by Consultant and manufactured by 3M or approved alternative. For use on interior windows.
- .3 Translucent film **(GF-3)**: Translucent glass film as selected by Consultant and manufactured by 3M or approved alternative. For use on exterior windows.
- .4 ***Opaque*** ~~Frosted~~ film **(GF-4)**: ***Opaque*** ~~Frosted~~ glass film selected by Consultant and manufactured by 3M or approved alternative. For use on interior sliding glass doors as indicated.
- .5 Application patterns as indicated on drawings.

.8 Glazing and rebate primers, sealants, sealers, and cleaners: Compatible with each other. Type as recommended by sealant, spline, and glass manufacturer.

.9 Glazing sealant (structural glazing - interior):
- .1 Silicone, One Part in accordance with ASTM C920, Type S or M, Grade NS, Class 25, clear for vertical joints.
- .2 Structural glazing tensile bead: 'Proglaze SSG' by Tremco or 'Dowsil 795' by Dow Consumers Solution.

.10 Glazing tape: 'Polyshim II' glazing tape EPDM shim.

.11 Glazing tape (fire rated glass): Closed cell polyvinyl chloride (PVC) foam, coiled on release paper over adhesive on two sides, maximum water absorption by volume of 2 percent. Glass panels that exceed 1,393 sq. inches for 90-minute ratings must be glazed with fire-rated glazing tape supplied by manufacturer.

.12 Setting Block: Silicone setting blocks with Shore A durometer hardness of 85, plus or minus 5 to ASTM D2240, sized to suit glazing method, glass unit weight and area.

.13 Edge blocks: Silicone, 75-80 Shore A durometer hardness to ASTM D2240, self adhesive on face, sized with 3 mm clearance from glass edge and spanning glass thickness(es).

.14 Glass presence markers: Easily removable, non-residue depositing.

.15 Screws, bolts and fasteners: Type 304 stainless steel.

.16 Channel: Extruded aluminum channel with powder coat finish, in colour as selected by the Consultant. Manufactured by C.R. Laurence or Inkan Limited.

2.3 **INTERIOR GLAZING AND FILM SCHEDULE**

.1 General: Professional Engineer of relevant framing system to confirm glazing composition and thickness of glazing used at partition and screen applications serving as a guard.

.2 **Glazing Type GL-1**: Minimum 9.5 mm thick clear tempered glass (TGL) used for glass sidelights and screens.

.3 **Glazing Type GL-1A**: Minimum 6 mm thick clear tempered glass (TGL) used for vision panels of non-rated interior doors.

.4 **Glazing Type GL-2**: Nominal 11 mm thick clear low iron laminated glass (LGL1) where indicated.

.5 **Glazing Type GL-3**: Minimum 8 mm thick fire rated ceramic glass (FRGL) used at interior glass lites in fire-rated doors and partitions.

.6 **Glazing Type GL-4**: Nominal 13 mm thick, clear low iron tempered/laminated glass with gradient pattern (LGL2), for use at feature wall/guard.

.7 **Glazing Type RP**: Minimum 9.5 mm thick resin panels (RP), for use in millwork divider screens as shown.

.8 **Film Type 1**: Opaque safety vision strip film (GF-1) for interior sliding glass doors as indicated.

.9 **Film Type 2**: Opaque film (GF-2) for interior windows as indicated.

.10 **Film Type 3**: Translucent film (GF-3) for exterior windows as indicated.

.11 **Film Type 4**: ***Opaque*** ~~Frosted~~ film (GF-4) for interior sliding glass doors as indicated.

2.4 **FABRICATION**

.1 Verify glazing dimensions on Site.

.2 Clearly label each glass lite with maker's name and glass type. Ensure labels are easily removable, non-residue depositing type. Do not remove labels until after Work is accepted by Consultant.

.3 Fabricate glazing not less than 3 mm smaller than rebate size in either dimension; allow for edge spacers, shims, and setting blocks as necessary.

.4 Work shall have smooth finished surfaces free from distortion and defects detrimental to appearance and performance.

.5 Carefully make and fit details. Take special care with exposed finished work to produce a neat and correct appearance to the Consultant's acceptance.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition and dimensions of previously installed work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

.2 Verify that openings for glazing are correctly sized and within tolerance.

.3 Verify that surfaces of glazing channels or recesses are clean, free of obstructions, and ready to receive glazing.

.4 Laminated glass edges shall be completely covered by tape to protect against sealants and water if required by manufacturer.

3.2 **PREPARATION**

.1 Clean contact surfaces with solvent and wipe dry.

.2 Seal porous glazing channels or recesses with substrate compatible primer or sealer.

.3 Prime surfaces scheduled to receive sealant.

3.3 **INSTALLATION**

.1 Provide glazing in accordance with FGIA recommendations. Provide continuous contact between glazing tapes and gasket to the glazing.

.2 Install glazing to the work of Sections 06 20 00, 08 11 13, 08 11 16 and 08 11 18.

.3 Provide neat, straight sight lines. Trim excess glazing tape flush with top of stops and fixed leg of frames.

.4 Remove protective coatings, glazing stops, clean rebate and glass contact surfaces with solvent, wipe dry.

.5 Apply primer/sealer to contact surfaces, prior to glazing.

.6 Apply glazing tape as per manufacturer's instructions including recommended corner sealant.

.7 Edge of setting blocks to be a minimum of 150 mm from corners in accordance with IGMA requirements.

.8 Install glazing in accordance with reviewed shop drawings and manufacturer's written instructions. Install glazing with full contact and adhesion at perimeter. Maintain edge clearance recommended by glass manufacturer.

.9 Apply a continuous heel bead of sealant around perimeter of inboard lite of the sealed unit and the metal framing.

.10 Re-install glazing stops ensuring continuous contact and rattle-free installation. Do not distort glass. Trim tape protruding more than 2 mm above stop.

.11 Do not cut or abrade tempered, heat treated, or coated glass.

.12 Install glass presence markers in two cross stripes extending from diagonal corners. Maintain markers until final clean-up.

.13 Remove, dispose of, and replace broken, cut, abraded glass, and defective glass including but not limited to production dimples, roller wave or marks, tong marks, chips, cracks, etc.

.14 Interior glass: Glaze interior glass using glazing gasket glazing tape.

.15 Structural glazing, general:
- .1 Glaze units in accordance with reviewed shop drawings and in accordance with manufacturer's written instructions.
- .2 Balustrade glazing: Mount glass rigidly in base pocket to proper spacing, level, alignment and plumb.

.16 Fire rated glass:
- .1 Install fire rated glass in accordance with ULC and NFPA 80 requirements
- .2 Place setting blocks located at quarter points of glass with edge block no more than 150 mm from corners.
- .3 Cut glazing tape to length and set against permanent stops, flush with sight lines to fit openings exactly, with stretch allowance during installation.
- .4 Glaze vertically into labeled fire-rated metal frames or partition walls with same fire rating as glass and push against tape for full contact at perimeter of pane or unit.
- .5 Place glazing tape on free perimeter of glazing in same manner described above.
- .6 Install removable stop and secure without displacement of tape.
- .7 Install so that appropriate ULC markings remain permanently visible.

.17 Resin panel material:
- .1 Install resin panel materials in accordance with manufacturer's written instructions.
- .2 Coordinate with Section 06 20 00 as required for sizing and installation of resin panel material for intended millwork items.
- .3 Provide aluminum channels for resin panels and all cut-outs and holes for fastenings required.
- .4 Ensure resin panel materials are installed level, secure and plumb installation.

.18 Glass film
- .1 Install glass film with adhesive, applied in accordance with film manufacturer's instructions.
- .2 Place without air bubbles, creases or visible distortion.
- .3 Fit tight to glass perimeter with razor cut edge.

3.4 CLEANING

.1 Immediately remove sealant and compound droppings from finished surfaces.

.2 Remove labels, protective material, and glass presence markers from prefinished surfaces.

.3 Clean glass surfaces with cleaning agents and methods in accordance with manufacturer's written instructions.

.4 Do not wash glass film for 30 days after installation.

.5 Do not use bristle brushes on glass film.

END OF SECTION

1 General

1.1 **SECTION INCLUDES**

.1 Labour, Products, equipment and services necessary for precast terrazzo stair unit work in accordance with the Contract Drawings.

1.2 **REFERENCES**

.1 TTMAC Specification Guide 09 30 00 Tile Installation Manual.

.2 TTMAC, Maintenance Guide.

1.3 **SUBMITTALS**

.1 Product data: Submit manufacturer's Product data in accordance with the Conditions of the Contract indicating:
.1 Characteristics, performance criteria, and limitations.
.2 Preparation, installation requirements and techniques, Product storage, and handling criteria.

.2 Shop drawings:
.1 Submit shop drawings in accordance with the Conditions of the Contract indicating:
.1 Thicknesses, perimeter conditions, junctions with dissimilar materials, and setting details.
.2 Details, sizes and attachment of precast epoxy terrazzo stair tread, riser, ***nosings and non-slip strips*** and landing units.
.3 Connection details and erection procedure.

.3 Samples:
.1 Submit samples in accordance with the Conditions of the Contract as follows:
.1 Submit two samples sized at 300 mm long of each type of precast terrazzo stair tread and riser demonstrating colour, pattern and finish for the Consultant's approval. Precast tread to be complete with ***nosing and*** non-slip nosing strips demonstrating material, non-slip texture and colour ***contrasts***.

.4 Close-out submittals: Submit maintenance data for incorporation into Operations and Maintenance manuals in accordance with the Conditions of the Contract.

1.4 **QUALITY ASSURANCE**

.1 Perform work of this Section by a company that is a member in good standing of the Terrazzo Tile and Marble Association of Canada, has a minimum of five years proven experience in installations of a similar size and nature and that is approved by manufacturer. Submit to Consultant, installer's current certificate of approval by the material manufacturer as proof of compliance.

.2 Mock-up:

.1 Construct three full stair treads and risers, complete with nosing***s and non-slip*** strips in location acceptable to Consultant.

.2 ***Demonstrate colours, slip resistance, installation and anchorage procedures and workmanship.***

.3 Arrange for Consultant's review and acceptance, allow 48 hours after acceptance before proceeding with work.

.4 Mock-up may remain as part of Work if accepted by Consultant. Remove and dispose of mock-ups which do not form part of Work.

.5 Upon acceptance, mock-up shall serve as a minimum standard of quality for the balance of the work of this Section.

.3 Pre-installation meetings: Arrange with manufacturer's representative and Consultant to inspect substrates, and to review installation procedures 48 hours in advance of installation.

1.5 **EXTENDED WARRANTY**

.1 Submit an extended warranty for work of this Section in accordance with General Conditions, except that warranty period is extended to five (5) years from date of Ready-for-Takeover.

.1 Warrant against excessive wear, chipping, cracking, or similar defects.

.2 Coverage: Complete replacement including effected adjacent parts.

2 Products

2.1 **ACCEPTABLE PRODUCTS AND MANUFACTURERS**

.1 Precast epoxy terrazzo stair units:

.1 Precast Terrazzo Enterprises, Inc.

.2 Wausau Tile.

.3 Or approved alternative.

.2 Epoxy terrazzo material:

.1 DRE Industries.

.2 Sika Canada Inc.

2.2 MATERIALS, GENERAL

.1 General:
- .1 All materials under work of this Section, including but not limited to, applicable materials are to have low VOC content limits.
- .2 Each material used in the installation of each precast stair unit shall be as recommended or manufactured by the supplier of the precast system.

2.3 PRECAST EPOXY TERRAZZO STAIR UNITS

1. Precast epoxy terrazzo (TER-C):
   - .1 Provide precast epoxy terrazzo stair treads, risers and landings in thicknesses as indicated.
   - .2 All precast components to utilize epoxy terrazzo resin products as specified for fabrication to ensure colour consistency with the poured in place terrazzo flooring.
   - .3 Comply with precast manufacturer's written instructions for fabricating precast terrazzo units in sizes and profiles indicated.
   - .4 Reinforce units as required by unit sizes, profiles, and thicknesses and as recommended by precast manufacturer.
   - .5 Finish exposed-to-view edges and reveals to match face finish.
   - .6 Ensure precast terrazzo stair units are pinhole free and have pit free surface of the material.

2. Epoxy terrazzo material:
   - .1 Epoxy terrazzo material consisting of two component solvent-free epoxy resin binder, aggregate filled topping, grout coat(s) and impregnating sealer/finish coat(s).
   - .2 Mixes and colours: Provide two custom mixes with colours and aggregates of precast units to match adjacent existing terrazzo floor and Consultant approved samples.
   - .3 Acceptable Products:
     - .1 'Terroxy' by DRE Industries.
     - .2 'Sikafloor Terrazzo' by Sika Canada Inc.

.3 Precast terrazzo unit setting materials: Thick-bed mortar in type as recommended by precast terrazzo manufacturer to suit intended application.

.4 Non-slip nosings and strips:

.1 Provide precast epoxy terrazzo stair nosings with two embedded 10 mm wide non-slip carborundum strips within the 50 mm wide darker colour contrasted nosing as shown on Contract Drawings.

.2 Colours:

.1 Nosing: Colour contrasting darker terrazzo colour for nosing, that is compatible with main mix and to match Consultant approved samples.

.2 Nosing strip: Black/dark contrasting coloured strip embedded in nosing and to match Consultant approved samples.

~~.4 Non-slip nosings:~~

~~.1 Provide adhesive applied, 0.79 mm thick, heavy duty, anti-slip carborundum strips for application to precast terrazzo stairs, 64 mm wide.~~

~~.2 Colour: Black/darker contrasting colour that is compatible with main mix.~~

~~.3 Acceptable Product: 'Carborundum Strips' by American Biltrite Flooring or approved alternative.~~

.5 Divider strips: "L" shape to required tread thickness and conforming to TTMAC requirements; bronze material.

.6 Sealant: Low VOC adhesive, type as recommended by flooring manufacturer, for use at adjacent and adjoining conditions. Colour: To match the colour of terrazzo tread.

2.4 **FABRICATION**

.1 Verify dimensions of existing work before commencing fabrications and report discrepancies to Consultant.

.2 Fabricate precast terrazzo stair units in accordance with reviewed shop drawings and manufacturer's written instructions.

.3 Fabricate work free from defects impairing function, appearance, strength and durability.

.4 Fabricate precast terrazzo tread complete with ***nosing and embedded*** non-slip nosing ***strip*** insert***s***.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition of previously installed work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **PREPARATION**

.1 Prepare intended substrates in accordance with manufacturer's written instructions.

.2 Project adjacent surfaces from damage resulting from this work. Mask and/or cover adjacent surfaces, fixtures, and equipment as necessary.

3.3 **PRECAST EPOXY TERRAZZO STAIR UNIT INSTALLATION**

.1 Install precast epoxy terrazzo stair units in accordance with reviewed shop drawings, manufacturer's written instructions and the TTMAC Installation Manual, with manufacturer recommended thick-bed mortar to suit intended conditions. Manufacturer's installation instructions govern over TTMAC Installation Manual.

.2 Ensure 100% mortar contact coverage to back of precast units. Contact must be evenly distributed to give full support of the precast units.

.3 Apply full mortar bed to substrate as shown with flat trowel and press firmly into surface, apply additional mortar using notched trowel.

.4 Set units in place and rap or beat with a beating block as necessary to ensure a proper bond and to level surface. Align units for uniform joints and allow to set until firm. Clean excess mortar from surface of precast units with a wet cloth or sponge while mortar is fresh.

.5 Divider strips: Provide divider strips in accordance with reviewed shop drawings demonstrating Consultant approved location plans indicating proposed divider strip locations to divide tread colours, submitted prior to start of installation.

.6 Installation of the finished precast terrazzo stair units must be done during late stages of construction to avoid damage to precast units.

.7 Install precast stair units without damage to shape or finish. Replace damaged units.

.8 Fit and align precast epoxy terrazzo stair units straight, plumb, level, and square.

.9 Do not install chipped, cracked, blemished, stained, or otherwise defective units.

.10 Sealant work:
- .1 Seal joints in accordance with manufacturer's written instructions and to meet general requirements of Section 07 92 00.
- .2 Seal joints between precast terrazzo units and adjoining construction, such as but not limited guard juncture and tread/stringer juncture.

~~.11 Nosing strips:~~
~~.1 Provide nosing strips with adhesive in accordance with manufacturer's written instructions.~~
~~.2 Remove adhesive seepage from surface of treads.~~
~~.3 Ensure full adhesion of nosing strips.~~

3.4 CLEANING

.1 Clean precast epoxy terrazzo stair units in accordance with manufacturer's written instructions.

3.5 PROTECTION

.1 Protect precast terrazzo stair units from damage throughout the course of the construction period.

.2 Stairs with precast epoxy terrazzo cannot be used for construction.

END OF SECTION

1 General

1.1 **SECTION INCLUDES**

.1 Design, Labour, Products, equipment and services necessary for acoustical material work in accordance with the Contract Documents.

1.2 **SUBMITTALS**

.1 Product data:
  .1 Submit manufacturer's Product data in accordance with Section 01 33 00 indicating:
    .1 Performance criteria, compliance with appropriate reference standard(s), characteristics, limitations, and trouble-shooting protocol.
    .2 Product transportation, storage, handling and installation requirements.

2 Products

2.1 **MATERIALS**

.1 All materials under work of this Section, including but not limited to, sealants and adhesives are to have low VOC content limits.

.2 Vibration isolation spring mounts: Unit shall consist of a steel spring in series with a neoprene isolating element encased in ferrous housing. ‘Housed Spring Mount Type C’ as manufactured by Mason Industries Inc. or approved alternative by PAC International.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition and dimensions of previously installed work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **PREPARATION**

.1 Ensure that surfaces to which spring isolator is to be applied, are dry, clean, reasonably straight and free of grease, oil and other deleterious substances.

3.3 **INSTALLATION**

.1 Install vibration isolation springs at rooftop air handling units and where otherwise indicated on Drawings in strict accordance with manufacturer's printed instructions.

END OF SECTION

1 General

1.1 **SECTION INCLUDES**

.1 Labour, Products, equipment and services for washroom accessories work in accordance with the Contract Documents.

1.2 **REFERENCES**

.1 ASTM A167, Specification for Stainless Steel and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.

.2 ASTM A312, Specification for Seamless and Welded Austenitic Stainless Steel Pipes.

.3 ASTM A653/A653M, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.

.4 CAN/CSA B651-M, Accessible Design for the Built Environment.

1.3 **SUBMITTALS**

.1 Product data: Submit Product data to requirements of the Conditions of the Contract indicating each washroom accessory describing size, finish, details of function, attachment methods, hardware and locks, description of rough-in frame, and building-in details of anchors for grab bars.

.2 Certifications: Provide manufacturer's certification that grab bars can meet Project grab bar loading requirements.

.3 Closeout submittals:

.1 Submit for each Product operation and maintenance instructions for incorporating into the Operations and Maintenance Manuals in accordance with the Conditions of the Contract.

.1 Supply 2 keys for each lockable washroom accessory to Consultant.

.2 Master key washroom accessories which are keyed.

.4 Extended warranty: Submit extended warranty signed and registered by the manufacturer providing the warranty in the name of the Owner for the timeframe and coverage specified in this Section.

1.4 **DELIVERY, STORAGE AND HANDLING**

.1 Deliver materials in sealed cartons and containers with manufacturer's name and product description clearly marked.

1.5 **EXTENDED WARRANTY**

.1 Submit an extended warranty for washroom accessories work in accordance with the General Conditions, except that the warranty period is extended to 10 years from the date of Ready-for-Takeover.
- .1 Against cracked or scratched mirrors, spoiling or deterioration of silvering or backing, loosening of fastenings or adhesive
- .2 Coverage: complete replacement including effected adjacent work.

1.6 **MAINTENANCE**

1. Maintenance tools: Provide special tools necessary for accessing, assembly/disassembly or removal of toilet, bath and cleaning accessories in accordance with the Conditions of the Contract.

2 Products

2.1 **MATERIALS**

.1 Stainless steel:
- .1 Sheet metal: ASTM A167, Type 304.
- .2 Tubing: ASTM A312, Type 304.

.2 Sheet steel: ASTM A653M, Z275; Cold rolled, commercial quality, surface preparation and pretreatment as required for applied finish.

.3 Fasteners, screws and bolts: ASTM A167, Type 304 stainless steel, tamper-proof.

2.2 **ACCESSORIES**

.1 Refer to drawings for quantity and location of washroom accessories.

.2 Grab bar (GB1):
- .1 Series B-6806-99 by Bobrick or #3800-P Series by ASI Group Canada; 38 mm diameter, 1.2 mm thick, concealed mounting with snap flange, complete with escutcheons.
- .2 Lengths and configurations as indicated on drawings.
- .3 Finish: Type 304 stainless steel with a satin finish and peened grip.

.3 L-shaped grab bar (GB2):
- .1 'Series 6898-99 - L30x30' by Bobrick Washroom Equipment or approved alternative; 38 mm diameter, 1.2 mm thick, concealed mounting with snap flange, complete with escutcheons.
- .2 Length and configuration: 762 x 762 mm, in L-shaped configuration as shown on Contract Drawings.
- .3 Finish: Type 304 stainless steel with a satin finish and peened grip.

.4 Swing up/fold down grab bar (GB3):
- .1 #3513 Swing-Up Grab Bar by ASI Group Canada or approved alternative; 38 mm diameter, 1.2 mm thick, 762 mm long in location as indicated. Installation to include anchor plate or blocking as required.
- .2 Finish: Type 304 stainless steel with a satin finish and peened grip.

.5 Mirror (MR): 6 mm thick, mirror quality float glass
- .1 #B-290 Series by Bobrick or #20650 series by ASI Group Canada; mitred corners welded, and polished smooth.
- .2 Dimensions: Sizes and locations as indicated on the Contract Drawings.
- .3 Frame finish: Type 304 stainless steel satin finish.

.6 Collapsible safety coat hooks (***HK-1*** ~~CH~~):
- .1 Provide single collapsible spring loaded security coat hook where indicated.
- .2 Hook to consist of stainless steel base and epoxy coated stainless steel hook in white colour with smooth burr free edge.
- .3 Safety hook shall snap down when load exceeds 25 lb (11 kg) limit.
- .4 Provide hooks with manufactured recommended tamperproof stainless steel screws.
- .5 Acceptable Product:
  - .1 'Safety Coat Hook, Model No. 1150' by Frost Products Ltd.
  - .2 Or approved alternative.

.7 Soap dispenser (SD):
- .1 Touch-free, automatic soap dispenser fabricated from high impact ABS plastic, with locking mechanism and having a 1200 mL soap capacity. Colour: To be selected by the Consultant.
- .2 Acceptable Product: 'Purell ES8 Soap Dispenser' by Gojo Industries, LLC or approved alternative.

.8 Stainless steel shelf (SSS):
- .1 #0692 Series by ASI Group Canada or approved alternative; shelf fabricated from 1.2 mm thick stainless steel with 13 mm return edge and front edge hemmed for safety.
- .2 Shelf complete with brackets fabricated from 1.2 mm thick stainless steel.
- .3 Size: 100 mm wide x 914 mm length.
- .4 Finish: Type 304 stainless steel, satin finish.

.9 Sanitary napkin disposal (SND):
- .1 #B-254 by Bobrick or #0473-1A by ASI Group Canada; Surface mounted, top hung upper door with multi-staked piano hinge, surface mounted stainless steel wall box and waste receptacle, full length stainless steel hinge. Receptacle capacity: 5.7 L.
- .2 Finish: All exposed edges Type 304 stainless steel with satin finish.

.10 Paper towel dispenser (PTD-2):
- .1 Touch and jam free, slim design, automatic paper towel dispenser fabricated from high impact plastic material. Colour: To be selected by the Consultant.
- .2 Acceptable Product: 'PeakServe' by Tork or approved alternative.

.11 Waste receptacle (WR-2):
- .1 #B-277 by Bobrick or #0826 by ASI Group Canada; Surface mounted receptacle, drawn and beveled, one-piece, seamless front. Waste receptacle to be equipped with interior clips for securing furnished reusable vinyl liner. Minimum capacity: 45.4 L.
- .2 Finish: Type 304 stainless steel with satin finish.

.12 Toilet tissue dispenser (TPD):
- .1 #B-2892 by Bobrick or approved alternative by ASI Group Canada; surface mounted, jumbo multi roll dispenser, with side by side rolls enclosed in cabinet above.
- .2 Finish: Type 304 stainless steel with satin finish.

.13 Adult changing station (ACS):
- .1 Wall-mounted folding table with water containment system to direct fluids to drain, capable of withstanding 200 kg (440 lbs), complete with reversible padded comfort support.
- .2 Table shall be fabricated from heavy duty aluminium frame with removable polyurethane foam mattress and be mounted on powder-lacquered stainless steel brackets.
- .3 Table height to be adjustable, with range from 300 mm to 1000 mm above floor finish.
- .4 Acceptable Product: Pressalit Care 3000 by Max-Ability or approved alternative.

.14 Hand dryer (HD):
- .1 Surface mounted, lightweight automatic impact resistant hand dryer in silver colour with touch-free infra-red activation, 12 second drying time and HEPA filter with anti-microbial coating.
- .2 Electrical supply: 120-127 V AC, single phase, 60 Hz.
- .3 Acceptable Product: 'Airblade V' by Dyson or approved alternative.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition and dimensions of previously installed work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **INSTALLATION**

.1 Verify and coordinate templates, inserts, and rough-in frames and verify exact location of washroom accessories for installation.

.2 Verify there is adequate supports and/or blocking in gypsum wall assemblies prior to installation of washroom accessories and as required to meet intended loading of wall mounted grab bars and any additional accessories as shown on Contract Drawings.

.3 Verify adequate blocking has been installed in gypsum wall assemblies for future adult change tables.

.4 Provide fastening and mounting kits for washroom accessories.

.5 Locate washroom accessories where indicated on Drawings and where directed by Consultant.

.6 Install washroom accessory fixtures, accessories, and items in accordance with manufacturer's instructions and CAN/CSA B651-M. Provide exposed tamper-proof screws of stainless steel to match units.

.7 Install washroom accessories plumb, level, and securely and rigidly anchored to substrate surfaces and framing. Adjust accessories for proper operation and verify mechanisms function smoothly.

.8 Grab bar loads:
- .1 Install grab bars to withstand minimum downward pull requirements as specified herein and as required by authorities having jurisdiction. Provide necessary blocking, supports and reinforcements as required.
- .2 Straight and L-shaped grab bars (typical applications): Minimum 1.3 kN (132 kg/290 lbs).

.9 Clean and polish exposed surfaces and fill accessories with necessary supplies prior to acceptance by Consultant.

END OF SECTION

1 General

1.1 **SECTION INCLUDES**

.1 Labour, Products, equipment and services necessary for miscellaneous specialties work in accordance with the Contract Documents.

1.2 **REFERENCES**

.1 NFPA 30, Flammable and Combustible Liquids Code.

.2 NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals.

.3 UL1275, Flammable Liquid Storage Cabinets.

1.3 **SUBMITTALS**

.1 Product data:
- .1 Submit manufacturer's Product data for each Product specified in accordance with the Conditions of the Contract indicating:
  - .1 Performance criteria, compliance with appropriate reference standard(s), characteristics, and limitations.
  - .2 Product transportation, storage, handling and installation requirements.

.2 Shop drawings: Submit shop drawings in accordance with the Conditions of the Contract indicating elevations, sections, details, dimensions, materials, gauges, and finishes.

.3 Samples:
- .1 Submit samples in accordance with the Conditions of the Contract of the following:
  - .1 Duplicate 300 x 300 samples of wall protection demonstrating material, colour and finish.
  - .2 Duplicate 300 mm long samples of cord cover demonstrating material and colour.

.4 Closeout submittals: Submit cleaning and maintenance instructions for miscellaneous specialties for incorporation into Operations and Maintenance Manuals in accordance with the Conditions of the Contract.

1.4 **DELIVERY, STORAGE, AND HANDLING**

.1 Package or crate, and brace products to prevent distortion in shipment and handling. Label packages and crates, and protect finish surfaces by sturdy wrappings.

2 Products

2.1 **MANUFACTURED UNITS**

.1 Corner guards (CG):
- .1 38 mm x 38 mm x 90^0, 2 mm thick, tape on vinyl corner guards, complete with accessories as recommended by guard manufacturer, such as tape and adhesive.
- .2 Colour: Solid colour, to match colour of adjacent wall paint for each guard type.
- .1 Types as follows:
  - .1 Corner guard (CG-1): Full height guard.
  - .2 Corner guard (CG-2): 914 mm high guard.
- .2 Acceptable Product: 'Tape-On Corner Guards' by InPro Corporation or approved alternative by C/S Group.

.3 Whiteboard (WB):
- .1 Porcelain on steel laminated to 8 mm impregnated core with zinc coated backing sheet, with recessed tray and clear anodized aluminum perimeter trim with squared corners.
- .2 Colour and finish: Low gloss finish in white, 'Porcelain Surface' by ASI Visual Display Products or approved alternative.
- .3 Sizes and layout: As shown on Contract Drawings.

.4 Wall protection (WP-1):
- .1 High impact, rigid wall cladding, 1.0 mm thick, height as shown on Drawings. Cladding shall be applied to wall with odourless adhesive.
- .2 Accessories: Provide colour matched wall covering accessory trim pieces: outside edge caps, joint covers, inside corner and outside corners, to suit application.
- .3 Colour: Solid colour, in colour to match wall paint and Consultant approved samples.
- .4 Acceptable Product:
  - .1 'Acroyvn Wall Covering' by Construction Specialties Ltd.
  - .2 Or approved alternative by Inpro Corporation, Kleerdex Company or McGill Architectural Products.

.5 Glove dispenser: Wall mounted, stainless steel glove dispenser, 'Glove Dispenser - Double Stainless Steel' by Uline or approved alternative.

.6 Sharps disposal unit:
- .1 Heavy-duty, vandal resistant, wall mounted, sharps disposal stainless steel system including a steel recessed tube inlet to prevent unauthorized access, complete with a plastic disposal sharps container. Capacity: Minimum 4 L.
- .2 Acceptable Product: 'Stainless Steel Biomedical Sharp Disposal, Model 878' by Frost Products Ltd. or approved alternative.

.7 Safety storage (solvent) cabinets:

.1 Construct storage cabinets of double wall, welded sheet steel construction with double panel door with insulation core. Cabinets shall have four adjustable levelling devices to compensate for approximately 25 mm base building floor differential. Door sill shall extend 50 mm above bottom of cabinet to form a liquid-tight well. Overlap cabinet frame with hinged doors having continuous piano type hinges with three-point locking mechanism ship lapped at opening stile. Shiplap shall be provided with braided fibreglass gasket.

.2 Insulate walls, back, side and top of cabinet with 50 mm thick mineral fibre insulation.

.3 Cabinet shall have adjustable galvanized sheet steel shelves with four edges turned down 25 mm and additionally returned under 16 mm on all edges. Provide 13 mm incremental shelf adjustment.

.4 Provide 50 mm vents, complete with fire baffle covers on each vent, with 50 mm diameter fine metal filter.

.5 Provide overlaid red warning letters 50 mm high on doors reading "FLAMMABLE -- KEEP FIRE AWAY".

.6 Cabinets shall comply with NFPA 30 and NFPA 45 for flammable and combustible liquids. Provide grounding screw lug in accordance with Codes.

.7 Construct safety storage cabinets sized for under-counter and configurations as required by Drawings.

.8 Cabinet shall be listed and labelled to the UL1275 standard.

.9 Acceptable product and manufacturer: ‘Insulated Solvent Storage Cabinet’ by Mott Manufacturing Ltd., or approved alternative.

.8 Paper towel dispenser (PTD-1):

.1 #B-262 by Bobrick; surface mounted 275 x 355 x 100 mm dispenser, equipped to dispense C-fold or multifold towels. Full length stainless steel hinge to allow door to swing down for refilling.

.2 Finish: Type 304 stainless steel with satin finish.

.9 Waste receptacle (WR-1):

.1 #B-277 by Bobrick or #0826 by ASI Group Canada; Surface mounted receptacle, drawn and beveled, one-piece, seamless front. Waste receptacle to be equipped with interior clips for securing furnished reusable vinyl liner. Minimum capacity: 45.4 L.

.2 Finish: Type 304 stainless steel with satin finish.

.10 Cord covers:

.1 Provide cord covers to protect and organize cords and cabling as shown on Contract Drawings.

.2 Two-part, rubber cord cover device, in size and type to suit intended use. Colour: To be selected by the Consultant.

.3 Acceptable Product: ‘ChordSaver Cord Cover’ by ChordSavers or approved alternative.

.11 Coat hooks (HK):

.1 Collapsible safety coat hooks (HK-1A): To match HK-1 collapsible coat hook as specified in Section 10 28 13, for use in locations as shown on Contract Drawings.

.2 Standard coat hooks (HK-2):

.1 Type 304 stainless steel single coat hook with a satin finish, consisting of cap, flange, support arm and concealed wall plate, with a projection of 40 mm.

.2 Acceptable Product: 'Surface-Mounted Robe Hook, #B-76717' by Bobrick or approved alternative by ASI Group Canada.

.3 Lead vest coat hooks (HK-3):

.1 Provide one capacity wall apron hook for lead vests in locations as shown on Contract Drawings, fabricated from heavy duty aluminum with manufacturer's standard powder coat enamel finish in white colour.

.2 Acceptable Product: 'AliMed Wall Apron Rack (One Apron Capacity)' by AliMed or approved alternative.

3 Execution

3.1 **EXAMINATION**

.1 Verify condition and dimensions of previously installed work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **PREPARATION**

.1 Verify substrate surfaces are solid, free from surface water, dust, oil, grease, projections and other foreign matter detrimental to performance.

.2 Items to be built-in: Provide information and templates required for installation of work of this Section, and assist or supervise, or both, the setting of anchorage devices, and construction of other work incorporated with products specified in this Section in order that they function as intended.

.3 Verify there is adequate supports and/or blocking in gypsum wall assemblies prior to installation of miscellaneous specialty items as required.

3.3 **INSTALLATION**

.1 Install miscellaneous specialties level and securely and rigidly anchored to substrate in accordance with authorities having jurisdiction, reviewed shop drawings, and manufacturer's written instructions.

.2 Wall protection:
- .1 Apply wall protection covering and manufacturer recommended adhesive to face of walls as indicated in accordance with manufacturer’s written instructions.
- .2 Ensure intended wall surfaces are clean and free from deleterious matter.
- .3 Install wall protection covering with textured surface as the exposed finish.
- .4 Install wall protection material with maximum 1.6 mm space between sheets and at abutting internal corners. All joints must be in alignment. No horizontal joints permitted.
- .5 Seal joints, exposed side edges and top of wall protection in accordance with Section 07 92 00.
- .6 Provide a continuous bead of caulking at adjoining integral resilient flooring base.

.3 Cord covers: Ensure cover does not serve as a tripping hazard.

.4 After installation, adjust miscellaneous specialties in accordance with manufacturer’s written instructions.

3.4 **CLEANING**

.1 Clean and polish exposed surfaces prior to acceptance by Consultant.

END OF SECTION

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Facsimile: 905.695.0167

Mechanical
Addendum No. 1

Reference: Coordination and Clarification

Issue Date: June 19, 2026

Project: U of T, Faculty of Dentistry
Clinic 2 Renovation

This addendum shall form an integral part of the Bid Documents for the above project and shall be read in conjunction therewith. This addendum shall, however, take precedence over all requirements of the previously issued Drawings and Specifications with which it may prove to be at variance, unless otherwise clarified by the Consultant.

This addendum must be signed by the Bidder in the appropriate space and must be attached to the back of the Bid Form for submission at the time of bidding. Bids not including this addendum signed as requested may be rejected as informal.

Revisions / Clarifications

The following changes and clarifications shall be considered when submitting your bid.

1. MECHANICAL DRAWINGS

1.1. M-200: BASEMENT & LEVEL 1 PLUMBING AND DRAINAGE

1.1.1. Additional Shut off valves are added on OV, DA, DCW, DHW, DHWR supply pipe main branch serving clinic 2 above.

1.2. M-201D: PATIENT LOBBY & LEVEL 2 DEMOLITION HVAC

1.2.1. Test & air balancing note added.

1.3. M-404: LEVEL 4 HVAC

1.3.1. HRV commissioning note added.

1.4. M-700: SCHEDULE#1

1.4.1. Eye-wash station schedule changed. Both EW-1 and EW-2 use the same deck mount model.

---------- END OF MECHANICAL ADDENDUM No. 1 ----------

1 1ST FLOOR-PD
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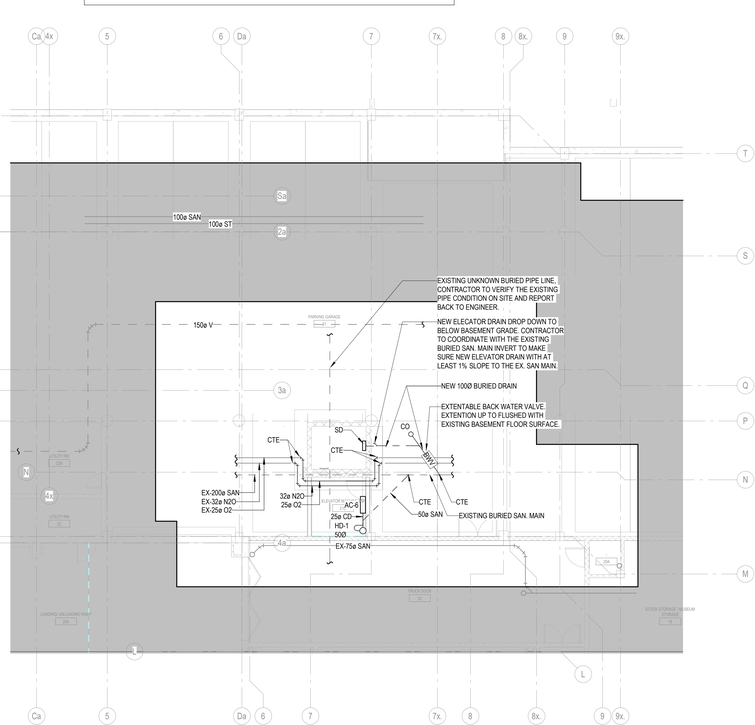

2 BASEMENT -PD
1 : 100

GENERAL NOTES

1. REMOVE ABANDONED PIPING/DUCTWORK TO NEAREST ACTIVE CONNECTION UNLESS NOTED OTHERWISE. IF EXISTING VALVE IS NOT PRESENT ALLOW FOR NEW VALVE TO BE INSTALLED WITH ASSOCIATED PIPE FREEZING MEASURES. CONTRACTOR TO MAKE AN ALLOWANCE FOR 50 NEW SHUT OFF VALVES, 10XS4"-10X1"-10X1-1/4"-10X1-1/2"-10X2" VALVES.
2. EXISTING SANITARY DRAINAGE SYSTEMS SHALL BE WATER-TESTED AND VIDEO-INSPECTED WHERE REQUIRED. ALLOW FOR 50 FT VIDEO SCOOPING OF ALL EXISTING MAINS BEING CONNECTED TO.
3. CONTRACTOR TO ALLOW FOR AFTER HOURS PIPE FREEZING FOR ALL PLUMBING/PIPING TIE-INS TO EXISTING. WHERE EXISTING VALVES MAY NOT EXIST ON PIPING, PROVIDE NEW AND MATCH TO EXISTING PIPE SIZES.
4. PRIOR TO COMMENCING INDIVIDUAL PROCUREMENT, FABRICATION AND CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY, AT THE PLACE OF THE WORK, ALL RELEVANT MEASUREMENT AND LEVELS NECESSARY FOR PROPER AND COMPLETE FABRICATION, ASSEMBLY AND INSTALLATION OF THE WORK AND SHALL FURTHER CAREFULLY COMPARE SUCH FIELD MEASUREMENT AND CONDITIONS WITH THE REQUIREMENT OF THE CONTRACT DOCUMENTS. WHERE DIMENSIONS ARE NOT INCLUDED OR EXACT LOCATIONS ARE NOT APPARENT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSULTANT IN WRITING AND OBTAIN WRITTEN INSTRUCTIONS FROM THE CONSULTANT BEFORE PROCEEING WITH ANY PART OF THE AFFECTED WORK.
5. PREPARE COORDINATION AND INTERFERENCE DRAWINGS OF ALL CEILING MECHANICAL AND ELECTRICAL SYSTEM FOR EFFICENT USE OF AVAILABLE SPACE, FOR PROPER SEQUENCE OF INSTALLATION OF ALL SERVICES, DEVICES, FIXTURES AND FITMENTS, AND RO RESOLVE CONFLICTS BETWEEN TRADES. IDENTIFY ON DRAWINGS LOCATIONS WHERE CONFLICTS MAY OCCUR.
6. SUBMIT COORDIANTION AND INTERFERENCE DRAWINGS TO THE CONSULTANT FOR REVIEW BEFORE BEGINNING WORK.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, THE MUNICIPALITY AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.
8. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES BEFORE THE COMMENCEMENT OF ANY WORK. CONTRACTOR TO NOTIFY CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN AS-BUILT CONDITIONS AND THE DRAWINGS.
9. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
10. CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.
11. PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.
12. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
13. PROVIDE CORING OF FLOOR SLAB. SCAN OR X-RAY SLAB BEFORE CORING TO INVESTIGATE EXISTING REBAR LOCATION (TOP & BOTTOM). SOME CUTTING OF EXISTING REBAR IN THE SLAB MAY BE ALLOWED/ NECESSARY
14. THE DRAWINGS AND SPECIFICATIONS ARE PROVIDING THE MINIMUM PERFORMANCE REQUIREMENTS. FIRE PROTECTION SYSTEM SHALL BE PREPARED, COMPLETE, STAMPED, SIGNED AND APPROVED BY A LICENSED FIRE PROTECTION CONTRACTOR.
15. FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH AND SUBJECT TO NFPA AND OBC REGULATIONS.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE CURRENT FLOW TEST INFORMATION PRIOR TO PREPARATION OF DRAWINGS AND HYDRAULIC CALCULATIONS.
17. REFER TO ARCHITECTURAL CODE COMPLIANCE PLANS FOR ALL FIRE RATED WALL PARTITIONS. PROVIDE "FIRE WRAP" TO ALL VERTICAL AND HORIZONTAL STANDPIPE THAT IS "NOT" ENCLOSED IN 2HR RATED ASSEMBLY AS PER NFPA REQUIREMENTS.
18. CONTRACTOR TO PROVIDE FIRE WATCH AS REQUIRED TO MAINTAIN FIRE SAFETY OF THE CONSTRUCTION SITE SCOPE AREA.
19. COORDINATE WITH BUILDING SUPERVISOR FOR APPROVAL TO SWITCH OFF VALVES FEEDING THE AREA PRIOR TO DEMOLISHING WORK.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH FACILITY. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON FACILITY OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.
21. CONTRACTOR SHALL CUT BACK AND CAP ALL INACTIVE/DECOMMISSIONED PIPING BRANCHES TO THE NEAREST ACTIVE MAIN ON THIS FLOOR/BELOW SLAB. REPAIR/INFILL FLOOR SLAB PENETRATION AND MAKE GOOD. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
22. SEE DRAWINGS M0-01 FOR GENERAL NOTES AND SYMBOL LEGEND.
23.CONTRACTOR TO ALLOW FOR 20 ADDITIONAL PIPE HANGERS AND SUPPORTS FOR EXISTING DOMESTIC WATER PIPING ,COMPRESSED WATER PIPING AND SPRINKLER PIPING. PROVIDE ADDITIONAL SUPPORT AND HANGARS WHERE IT IS FOUND TO BE INADEQUATE.
24.RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.

KEY NOTES

1. PROVIDE NEW SANITARY DRAIN WITHIN CEILING SPACE TO SERVE LEVEL 2 DENTAL WALL SINK, DENTAL LAVATORY AND PLUMBING FIXTURES. TIE SANITARY MAIN BRANCH BACK TO EXISTING SANITARY RISER AS INDICATED ON THE PLAN. TYPICAL
2. PROVIDE NEW ORAL VACUUM (OV)PIPING WITHIN CEILING SPACE TO SERVE LEVEL 2 DENTAL WALL SINK, AND DENTAL CHAIRS. TIE OV MAIN BRANCH BACK TO EXISTING OV RISER AS INDICATED ON THE PLAN. TYPICAL
3. PROVIDE NEW DENTAL COMPRESSED AIR (DA) WITHIN CEILING SPACE TO SERVE LEVEL 2 DENTAL WALL SINK, DENTAL CHAIRS AND TIE DA MAIN BRANCH BACK TO EXISTING DA AT SHUT-OFF VALVE AS INDICATED ON THE PLAN. TYPICAL
4. PROVIDE NEW DCW,DHW DHWR PIPING WITHIN CEILING SPACE TO SERVE LEVEL 2 DENTAL WALL SINK, DENTAL LAVATORY AND TIE MAIN BRANCH BACK TO EXISTING PLUMBING SYSTEM AT SHUT-OFF VALVE AS INDICATED ON THE PLAN. PROVIDE NEW SHUT OFF VALVE AT NEW BRANCH. TYPICAL
5. QUANTITY OF EXISTING VENT RISERS ARE DIAGRAMMATIC ONLY AND MUST BE VERIFIED ON SITE. EXISTING RISERS TO REMAIN IN THE WALL ENCLOSURE PROVIDED. CONTRACTOR TO PROVIDE NEW VENT PIPE FROM NEW PLUMBING FIXTURE PER OBC PART 7 AND TIE BACK THE REMAINED VENT RISER AT WALL ENCLOSURE.
6. CONTRACTOR TO VERIFY ALL THE EXISTING SHUT OFF VALVES CONDITION ON SITE . ALLOW FOR THE REMOVAL AND REPLACEMENT OF THE VALVES NOT HOLDING PER THE FOLLOWING: 20Ø 6 VALVES; 25Ø 6 VALVES; 32Ø 10 VALVES ; 50Ø 5 VALVES. ALLOW FOR PIPE FREEZING FOR THE INSTALLATION OF THE NEW VALVES.
7. CONTRACTOR TO VERIFY THE EXISTING VACUUM RISER LOCATION ON SITE AND REPORT BACK TO ENGINEER. TIE NEW VACUUM PIPING BACK TO EXISTING. CONTRACTOR SHOULD CARRY THE ALLOWANCE TO EXTEND OR RE-ROUTE THE NEW VACCUM PIPE TO CONNECT TO THE EXISTING AVAILABLE VACUUM SYSTEM AS FOLLOWS: 150Ø 20M; 100Ø 20M; 75Ø 20M.
8. CONTRACTOR TO PROVIDE VENT PIPE FOR PLUMBING FIXTURE PER OBC PART 7. NEW VENT PIPE TO RUN WITHIN LEVEL 1 CEILING SPACE AND TIE BACK TO CAPPED EXISTING VENT RISER AT PERIMETER COLUMN AND UP THROUGH ROOF. TYPICAL
9. REFER TO DRAWING M600 FOR PIPING DETAIL AND SIZING.
10. PROVIDE NEW VENT PIPE MAIN BRANCHES FROM THE LEVEL 1 CEILING LEVEL AND CONNECT TO MAIN HORIZONTAL COLLECTION WITHIN LEVEL 1 CEILING SPACE AND ROUTE UP WITHIN EXISTING PIPE CHASE IN LEVEL 2. ROUTE AS CLOSE AS POSSIBLE TO THE EXTERIOR WALL WITHIN THE CHASE TO ALLOW FOR THE ARCHITECTURAL REWORK. RECONNECT THIS NEW VENT MAIN PIPE TO THE EXISTING VERTICAL MAIN PIPE SIZE TO MATCH EXISTING. COORDINATE WITH ALL EXISTING SERVICES WITHIN THIS CHASE AND ALLOW FOR THE REWORK. ROUTING OF EXISTING SERVICES INCLUDING; WIRING, CONDUITS, JUNCTION BOXES ETC. CONTRACTOR TO REPORT BACK TO THE ENGINEER IF THERE ARE ANY DISCREPANCIES ON SITE. ALLOW AND INCLUDE FOR NEW PIPE SUPPORTS.

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www.exp.com

#	DATE:	REVISION:	BY:
14	2026-06-19	ISSUED FOR ADDENDUM NO. 1	EXP
13	2026-06-09	ISSUED FOR TENDER	EXP
12	2026-01-15	Revision 12	EXP
11	2026-01-09	ISSUED FOR 100% CD	EXP
10	2025-12-19	ISSUED FOR 100% CD DRAFT	EXP
9	2025-12-05	ISSUED FOR PERMIT	EXP
8	2025-11-26	RE-ISSUED FOR F&S REVIEW	EXP
7	2025-09-26	ISSUED FOR 80%CD	EXP
6	2025-09-12	ISSUED FOR CLINIC 1 CEILING 100% DD	EXP
5	2025-08-15	ISSUED FOR CLINIC 1 CEILING 100% SD	EXP
4	2025-05-30	ISSUED FOR 100%DD	EXP
3	2025-05-02	ISSUED FOR 50%DD PROGRESS	EXP
2	2025-03-14	REISSUED FOR 100% SCHEMATIC DESIGN	EXP
1	2025-02-28	ISSUED FOR 100% SCHEMATIC DESIGN	EXP

REVISIONS

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
24082

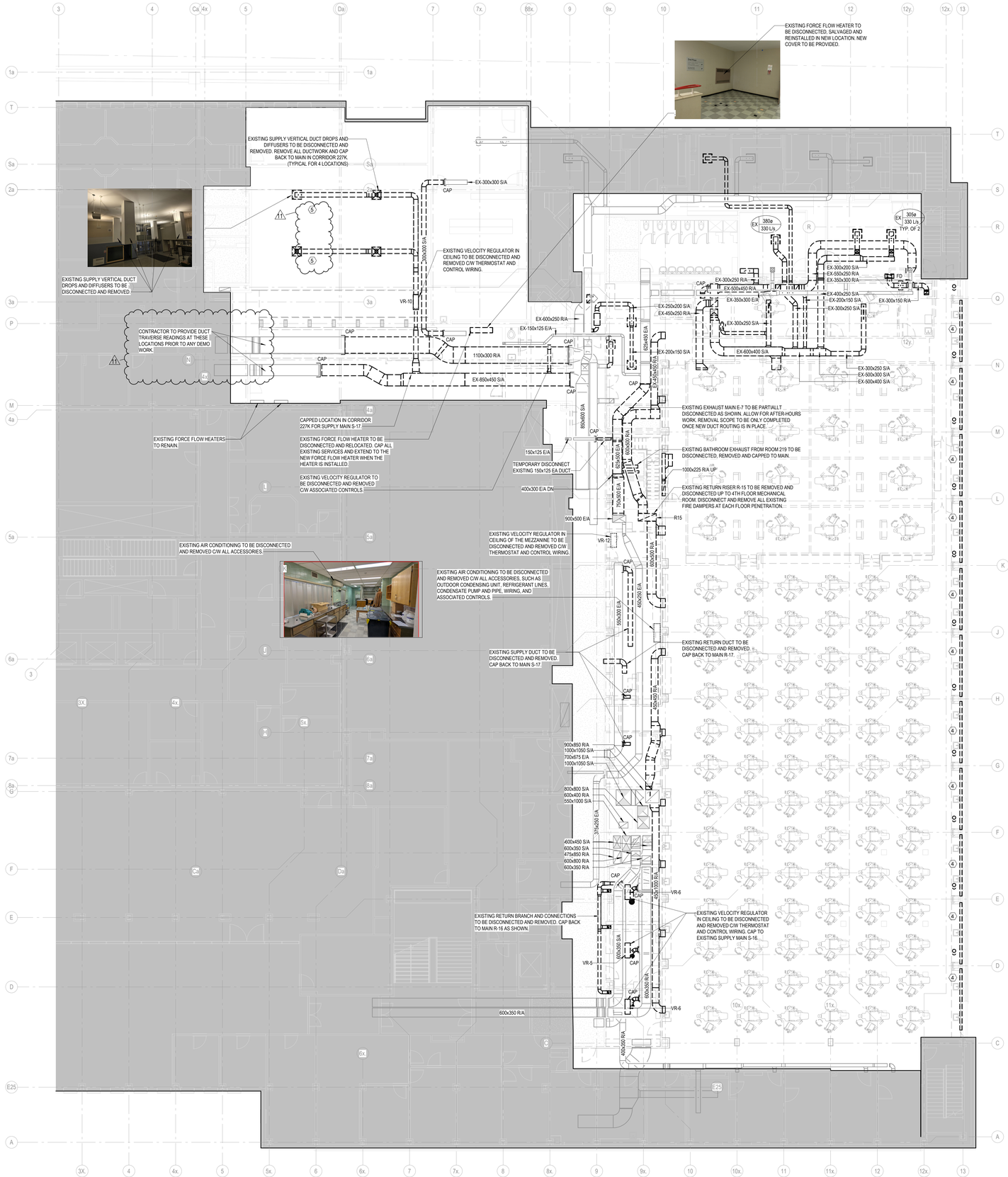
124 EDWARD STREET
TORONTO, ON, M5G 1G6

BASEMENT & LEVEL 1
PLUMBING AND DRAINAGE

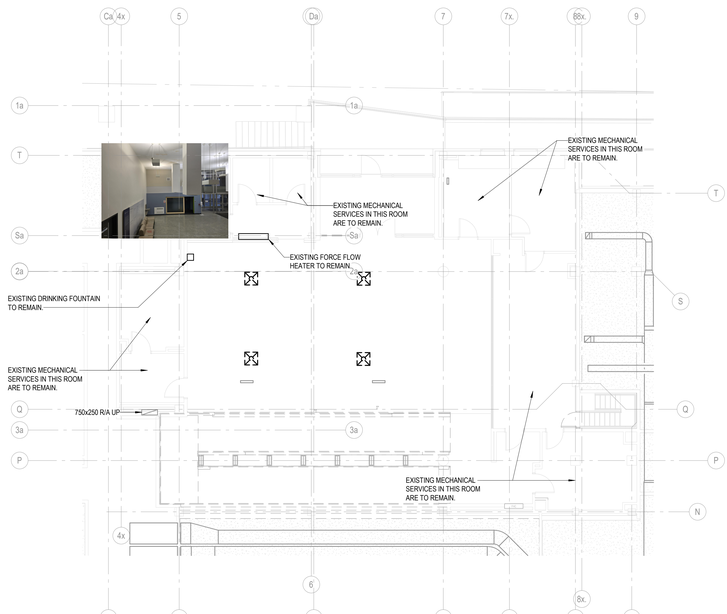
SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	02/04/25

DRAWING NUMBER:
M-200

Autodesk Docs://24082_UoT_DC_2_R24/24082_UoT DC_2_EXP_MECH_R24.rvt
6/18/2026 5:08:58 PM



1 2ND FLOOR-DEMO
1 : 100



2 PATIENT LOBBY-DEMO
1 : 100

HVAC GENERAL DEMOLITION NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOR, MUNICIPAL REQUIREMENTS AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.

2. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES BEFORE THE COMMENCEMENT OF ANY WORK.

3. CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.

4. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.

5. FOR DUST CONTROL, CAP EXISTING DUCTS IN THE CONSTRUCTION AREA. CONNECTION TO EXISTING AIR DUCTS TO DE DONE AFTER COMPLETION OF ALL DUST PRODUCING TASKS.

6. RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.

7. PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.

8. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.

9. PROVIDE CORING OF FLOOR SLAB. SCAN OR X-RAY SLAB BEFORE CORING TO INVESTIGATE EXISTING REBAR LOCATION (TOP & BOTTOM). CUTTING EXISTING DEBARS IN THE SLAB IS NOT PERMITTED.

10. THE VENTILATION LAYOUT HAS BEEN TAKEN FROM ALL AVAILABLE INFORMATION AND SHALL BE ACCURATELY CHECKED ON THE SITE AND AN DISCREPANCY REPORTED BEFORE WORK IS COMMENCED.

11. EXISTING PIPES SERVING AREAS REMAINING IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS A TEMPORARY INTERRUPTION IS COORDINATED WITH THE OWNER.

12. DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECTURAL DRAWINGS.

13. THE CONTRACTOR SHALL COORDINATE THE DEMOLITION WORK WITH PROJECTS PHASING SCHEDULE PRIOR TO THE COMMENCEMENT OF THE WORK.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH LANDLORD. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON SCHOOL OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LANDLORD TO MINIMIZE SERVICE INTERRUPTION FOR RUNNING SYSTEM, INCLUDING CAP PIPE OPENING, PROVIDING TEMPORARY PIPE CONNECTION, PROVIDE NECESSARY METHOD TO AVOID PIPE FREEZING WHEN SYSTEM IS OFF.

16. NOT ALL FIRE DAMPERS SHOWN TYPICAL ON ALL LEVELS.

KEY NOTES

1. REMOVE SUPPLY DUCT, VR10 AND ALL THE SUPPLY DIFFUSERS AS SHOWN. CAP AND SEAL SUPPLY DUCT BACK TO MAIN.
2. REMOVE RETURN DUCT AND RETURN GRILLES AS SHOWN. CAP AND SEAL RETURN DUCT BACK TO MAIN.
3. REMOVE EXHAUST DUCT AND GRILLES AS SHOWN. CAP AND SEAL EXHAUST DUCT BACK TO MAIN.
4. REMOVE EXISTING HYDRONIC RADIATORS, SHUT-OFF VALVES, BALANCING & CONTROL VALVES AND RELATIVE ACCESSORIES. CAP AND CUT BACK PIPE CLOSE TO MAIN.
5. CONTRACTOR TO PROVIDE PRE-TEST FOR AHU-17 SYSTEM INCLUDING RETURN AND SUPPLY FANS THAT SERVES THE AREA IN SCOPE. CONTRACTOR TO PROVIDE TRAVERSE READINGS AT THE LOCATIONS SHOWN ON PLAN PRIOR TO ANY DEMO WORK. WHEN NEW WORK HAS BEEN COMPLETED, CONTRACTOR TO RE-BALANCE THE SUPPLY AND RETURN MAINS BASED ON THE READINGS RECORDED USING THE NEW VAV INSTALLED FOR PATIENT LOBBY SPACE.

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10	2026-05-29	ISSUED FOR TENDER	EXP
9	2026-01-09	ISSUED FOR 100% CD	EXP
8	2025-12-19	ISSUED FOR 100% CD DRAFT	EXP
7	2025-12-05	ISSUED FOR PERMIT	EXP
6	2025-11-26	RE-ISSUED FOR F&S REVIEW	EXP
5	2025-09-26	ISSUED FOR 80%CD	EXP
4	2025-06-30	ISSUED FOR 100%DD	EXP
3	2025-06-02	ISSUED FOR 50%DD PROGRESS	EXP
2	2025-03-14	REISSUED FOR 100% SCHEMATIC DESIGN	EXP
1	2025-02-28	ISSUED FOR 100% SCHEMATIC DESIGN	EXP

REVISIONS

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
24082

124 EDWARD STREET
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PATIENT LOBBY & LEVEL 2
DEMOLITION HVAC

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	24082
PLOT DATE:	02/04/25

DRAWING NUMBER:
M-201D

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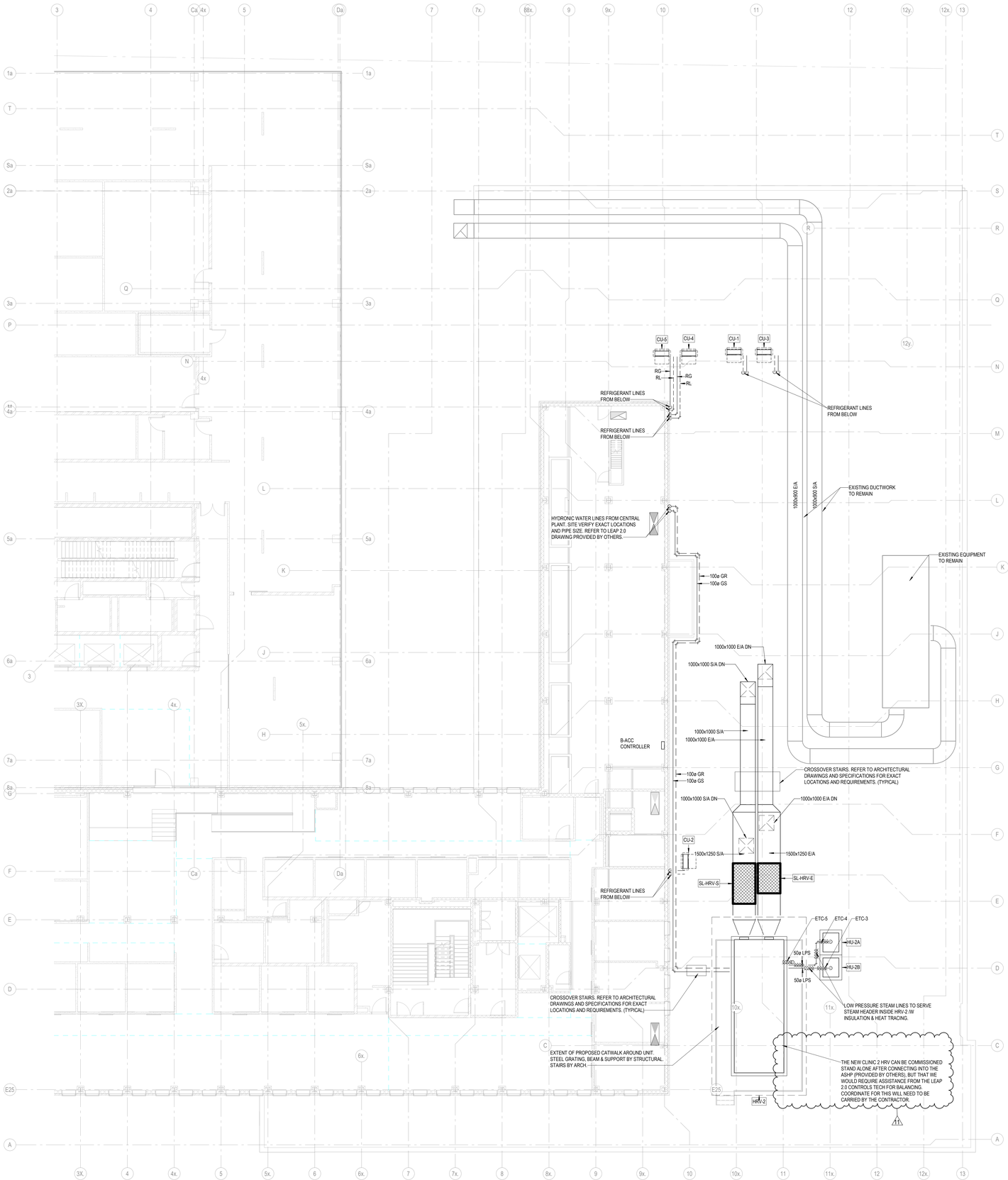

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, THE MUNICIPALITY AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.
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3. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
4. CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.
5. FOR DUST CONTROL, CAP EXISTING DUCTS IN THE CONSTRUCTION AREA. CONNECTION TO EXISTING AIR DUCTS TO BE DONE AFTER COMPLETION OF ALL DUST PRODUCING TASKS.
6. PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.
7. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
8. PROVIDE CORING OF FLOOR SLAB. SCAN OR X-RAY SLAB BEFORE CORING TO INVESTIGATE EXISTING REBAR LOCATION (TOP & BOTTOM). CUTTING EXISTING REBARS IN THE SLAB IS NOT PERMITTED.
9. THE DRAWINGS AND SPECIFICATIONS ARE PROVIDING THE MINIMUM PERFORMANCE REQUIREMENTS. FIRE PROTECTION SYSTEM SHALL BE PREPARED, COMPLETE, STAMPED, SIGNED AND APPROVED BY A LICENSED FIRE PROTECTION CONTRACTOR.
10. FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH AND SUBJECT TO NFPA AND OBC REGULATIONS.
11. PROVIDE GUARDS ON ALL UPRIGHT SPRINKLERS SUBJECT TO DAMAGE, AND ON SPRINKLER HEADS IN STORAGE ROOMS, ELECTRICAL ROOMS, IT ROOMS.
12. CONTRACTOR TO PROVIDE FIRE WATCH AS REQUIRED TO MAINTAIN FIRE SAFETY OF THE CONSTRUCTION SITE SCOPE AREA.
13. COORDINATE WITH BUILDING SUPERVISOR FOR APPROVAL TO SWITCH OFF VALVES FEEDING THE AREA PRIOR TO DEMOLISHING WORK.
14. DRAIN THE FIRE PIPE LINE PRIOR TO COMMENCING WORK, COORDINATE ON SITE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH FACILITY. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON FACILITY OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.
16. CONTRACTOR SHALL CUT BACK AND CAP ALL INACTIVE/DECOMMISSIONED PIPING BRANCHES TO THE NEXT ACTIVE MAIN ON THIS FLOOR/BELOW SLAB. REPAIR/INFILL FLOOR SLAB PENETRATION AND MAKE GOOD. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
17. NOT ALL FIRE DAMPERS SHOWN. TYPICAL ON ALL LEVELS.

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HEAT RECOVERY UNIT SCHEDULE

REFERENCE TAG	MANUFACTURER	MODEL	LOCATION	SUPPLY AIR					EXHAUST AIR						HEAT RECOVERY (HEAT PIPE)				COIL SECTION (COOLING MODE)					COIL SECTION (HEATING MODE)					HUMIDIFICATION (KG/HR)	EMERGENCY POWER (Y/N)	ELECTRICAL			OCTAVE BAND CENTER FREQUENCY (Hz)								WEIGHT (KG)
				TOTAL AIRFLOW (L/S)	EACH FAN				NO. OF FANS	TOTAL AIRFLOW (L/S)	EACH FAN				NO. OF FANS	SUMMER		WINTER		COOLING CAPACITY (KW)	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)	WATER FLOW (L/S)	E.W.T / L.W.T. (°C)	HEATING CAPACITY (KW)	E.A.T DB (°C)	L.A.T DB (°C)	WATER FLOW (L/S)	E.W.T / L.W.T. (°C)			VOLTAGE V/PH/HZ	FLA	MCA	LOCATION	63	125	250	500	1000	2000	4000	8000	
					AIR FLOW (L/S)	T.S.P (PA)	POWER (KW)	RPM			AIR FLOW (L/S)	T.S.P (PA)	POWER (KW)	RPM		E.A.T DB/WB (°C)	L.A.T DB/WB (°C)	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)																					
HRV-2	ANNEXAIR	ERU-E-20-SL-HP-D-SL-SS-CA-6-M-T	LEVEL 3 ROOF	9,906	3301.0	1674.0	8.2	2125	3	9,906	3,301	844.00	4.3	1698	3	-	30.9/21.6	-	-5.4/-8.8	314	30.9/21.6	12.8/12.8	12.9	5.6/12.2	445	-5.4	31.1	21.5	48.9/43.3	172.8	N	575/3/60	53	56	RA / INLET	-	-	-	-	-	-	-	-	8,255

NOTES:
- REFER TO SEPERATE SCHEDULES FOR REMOTE ELECTRICAL HUMIDIFIER.
- ACOUSTICLY LINED FAN SECTIONS AND INTERNAL SILENCERS AT AIR INLET AND EXHAUST AIR OUTLET, E.A. ACOUSTICAL LOUVER AND PERFORATED O.A. HOOD.
- FACE & BYPASS OUTDOOR AIR FOR FROST CONTROL
- INTERFACE WITH BAS.
- C/W VFDS FOR SUPPLY FANS & EXHAUST FANS
- PROVIDE EYE BOLT SUITABLE FOR RIGGING REQUIRED FOR REMOVAL OF FAN ASSEMBLIES, INCLUDING MOTORS FROM THE UNIT
- MERV 13 FOR FINAL -FILTER
- PROVIDE VIBRATION ISOLATOR TYPE C-E (MASON INDUSTRIES) AS RECOMMENDED BY ACOUSTIC ENGINEER

DIFFUSER & GRILLE SCHEDULE

REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE	NECK SIZE	DAMPER	REMARKS
A1	E.H. PRICE	RCD	ROUND SUPPLY AIR DIFFUSER	AS PER DRAWING	AS PER DRAWING	Y	
A2	E.H. PRICE	SCD	SQUARE SUPPLY AIR DIFFUSER	600(W)x600(H)	ON PLAN	Y	
A3	E.H. PRICE	SCD	RECESSED DIFFUSER (LOW LEVEL SUPPLY AIR)	300(W) x 300(H)	300(W) x 300(H)	N	SURFACE MOUNTED
A4	E.H. PRICE	SCD	RECESSED DIFFUSER (LOW LEVEL SUPPLY AIR)	500(W) x 750(H)	500(W) x 750(H)	N	SURFACE MOUNTED
A5	E.H. PRICE	SDS 100	LINEAR DIFFUSER	1800 LONG	250Ø	Y	2 SLOT, 25 SLOT WIDTH C/W SDA PLENUM
A6	E.H. PRICE	SDS 100	LINEAR DIFFUSER	1500 LONG	250Ø	Y	2 SLOT, 25 SLOT WIDTH C/W SDA PLENUM
A7	E.H. PRICE	TBD7	LINEAR DIFFUSER	1220 LONG	250Ø	Y	4 SLOT, 1 WAY, 6" WIDTH C/W SDA PLENUM
A8	E.H. PRICE	SDS 100	LINEAR DIFFUSER	910 LONG	250Ø	Y	4 SLOT, 1 WAY, 6" WIDTH C/W SDA PLENUM
B1	E.H. PRICE	10	PERFORATED RETURN GRILLE	AS PER DRAWING	AS PER DRAWING	N	SURFACE MOUNTED
B2	E.H. PRICE	80	EGG CRATE GRILLE	600(W) x 600(H)	611 x 610	N	SURFACE MOUNTED
B3	E.H. PRICE	TBR7	LINEAR RETURN	1220 LONG	-	N	4 SLOT, 1 WAY, 6" WIDTH
C1	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE	300(W)x300(H)	ON PLAN	N	SURFACE MOUNTED
C2	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE (LOW LEVEL EXHAUST AIR)	300(W)x300(H)	ON PLAN	N	SURFACE MOUNTED
C3	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE (LOW LEVEL EXHAUST AIR)	500(W)x750(H)	500(W) x 750(H)	N	SURFACE MOUNTED

NOTES:
1. GRILLE / DIFFUSER AND LOUVER TO BE PAINTED AS PER ARCHITECTURAL REQUIREMENT. FINISH TO BE CLARIFIED PRIOR TO ORDERING
2. PROVIDE VOLUME DAMPER FOR RETURN GRILLE DUCTED BACK TO THE UNIT.

VAV BOXES SCHEDULE

TAG	AREA SERVED	MODEL	UNIT SIZE	MIN. AIRFLOW (L/S)	AIRFLOW (L/S)	DIFFERENTITAL PD (Pa)	ELECTRICAL REHEAT COIL CAPACITY (KW)	EAT (°C)	LAT (°C)	COIL AMPS	VOLTAGE	MAX DIS NC	MAX RAD NC	REMARKS
VAV-1	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/3/60	--	--	
VAV-2	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/3/60	--	--	
VAV-3	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/3/60	--	--	
VAV-4	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/3/60	--	--	
VAV-5	CLINIC (LINEAR DIFFUSERS)	SDV	14	203	700	2.5	4.50	29.40	35.00	12.49	208/3/60	--	--	
VAV-6	CLINIC (LINEAR DIFFUSERS)	SDV	12	142	600	2.5	3.90	29.40	35.00	18.75	208/1/60	--	--	
VAV-7	CLINIC (LINEAR DIFFUSERS)	SDV	12	142	600	2.5	3.90	29.40	35.00	18.75	208/1/60	--	--	
VAV-8	CLINIC (HIGH LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/3/60	--	--	
VAV-9	CLINIC (HIGH LEVEL SUPPLY)	SDV	12	142	472	2.5	3.00	29.40	35.00	14.42	208/1/60	--	--	
VAV-10	CLINIC (HIGH LEVEL SUPPLY)	SDV	12	142	472	2.5	3.00	29.40	35.00	14.42	208/1/60	--	--	
VAV-11	AODA ROOM	SDV	4	31	56	2.5	0.50	29.40	35.00	2.40	208/1/60	--	--	
VAV-12	CLEAN DISPENSARY ROOMS	SDV	8	59	283	2.5	1.50	29.40	35.00	7.21	208/1/60	--	--	
VAV-13	AODA OP ROOMS	SDV	10	99	368	2.5	2.40	29.40	35.00	11.54	208/1/60	--	--	
VAV-14	AODA OP ROOMS	SDV	10	126	419	2.5	2.20	29.40	35.00	10.58	208/1/60	--	--	
VAV-15	HALLWAY	SDV	10	99	444	2.5	3.00	29.40	35.00	14.42	208/1/60	--	--	
VAV-16	WAITING AREA	SDV	10	99	444	2.5	3.00	29.40	35.00	14.42	208/1/60	--	-	
VAV-17	AODA OP ROOMS	SDV	8	59	235	2.5	1.50	29.40	35.00	7.21	208/1/60	--	--	
VAV-18	CORRIDOR	SDV	6	62	112	2.5	0.50	29.40	35.00	2.40	208/1/60	-	-	
VAV-19	DIRTY DISPENSARY ROOMS	SDV	8	59	189	2.5	1.50	29.40	35.00	7.21	208/1/60	--	--	
VAV-20	SEMINAR ROOMS	SDV	14	243	811	2.5	4.50	29.40	35.00	12.49	208/1/60	--	--	
VAV-21	LAB	SDV	8	35	95	2.5	1.00	29.40	35.00	5.50	208/1/59	--	--	
VAV-22	CLINIC 2	SDV	10	108	361	2.5	2.20	29.40	35.00	10.58	208/1/60	--	--	

Notes:
- DASHES (--) INDICATE NC VALUES LESS THAN 20.
- NC VALUES ARE CALCULATED BASED ON PROCEDURES OUTLINED IN AHRI STANDARD 885-2008, "A PROCEDURE FOR ESTIMATING OCCUPIED SPACE SOUNE LEVELS IN THE APPLICATION OF AIR TERMINALS AND AIR OUTLETS."
- SOUND POWER LEVELS ARE GIVEN IN DECIBELS (dB).
- DASHES (--) INDICATE SOUND POWER LEVELS BELOW 36-29-26-22-19-17 FOR EACH OCTAVE BAND; VALUES BELOW THESE SOUND POWER LEVELS ARE CONSIDERED BELOW SIGNIFICANCE PER AHRI 880.
- MINIMUM OPERATING PRESSURE IS THE MINIMUM STATIC PRESSURE REQUIRED TO OPERATE THE TERMINAL ITEM ASSEMBLY AT MAXIMUM PRIMARY FLOW WITH A WIDE OPEN DAMPER.
- NC VALUES ARE DERIVED FROM SOUND POWER LEVELS OBTAINED IN ACCORDANCE WITH ASHRAE STANDARD 130-2016 AND AHRI STANDARD 880-2017, WHICH INCLUDE DUCT END REFLECTION CORRECTIONS.
- C/W 3 FT ATTENUATOR.
- CONTROLLERS, TEMPERATURE SENSORS ETC. SHALL COMPLY WITH UOT BAS DESIGN.
- SDR CONTROL FOR ELECTRICAL REHEAT COIL.
- INTERFACE WITH BAS.

SILENCER SCHEDULE (PRICE INDUSTRIES)

REFERENCE TAG	SYSTEM	DIMENSIONS (mm)			AIR FLOW (L/S)	VELOCITY (M/S)	PD (Pa)	P.D. /W SE (Pa)	DYNAMIC INSERTION LOSS								MODEL NO.	REMARKS
		WIDTH OR DIA.	HEIGHT	LENGTH					OCTAVE BAND CENTER FREQUENCY, HZ									
									63	125	250	500	1000	2000	4000	8000		
SL-HRV-S	AIR VENTILATION SYSTEM	1500	1250	2700	9435	4	35	63	11	18	26	28	29	17	12	9	750 KCRS-F-TF/3	
SL-HRV-E	AIR VENTILATION SYSTEM	1500	1250	1500	9435	-4	50	60	3	10	23	26	29	25	16	9	375 KCRS-F-TF/2	

NOTES:
VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-13
- PRESSURE DROP, DYNAMIC INSERTION LOSS AND SELF GENERATED NOISE PER ASTM E477-13
- MAXIMUM PRESSURE DROP WITH SYSTEM EFFECTS = SILENCER PRESSURE DROP PER ASTM E477-13 + SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS

ELECTRICAL HUMIDIFIER SCHEDULE

REFERENCE TAG	AREA SERVED	LOCATION	MANUFACTURER	MODEL NO.	MODULE	STEAM CAPACITY (KG/HR)	ELECTRICAL DATA		EMERGENCY POWER (Y/N)	WEIGHT (KG)	REMARKS
							VOLTAGE V/Hz/PH	POWER (KW)			
HU-2A	CLINIC 2	3RD FLOOR ROOF	STEAMOVAP	IER 88	1	118	575/60/3	86.6	N	222	
HU-2B	CLINIC 2	3RD FLOOR ROOF	STEAMOVAP	IER 44	1	59	575/60/3	43.3	N	107	

NOTES:
1. FULLY MODULATING HUMIDIFIER. 2. DRAIN AUTOMATICALLY COOLED DOWN AT 60°C. 3. INTERFACE WITH BAS. 4. STEAM DISTRIBUTION TUBE WILL DELIVERY LOOSE AND INSTALL ON SITE. 5. EQUIPMENT INSTALLED ON ROOF CURB WHICH PROVIDED BY SUPPLIER.

SPLIT AIR CONDITIONING SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE

REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	RATED COOLING CAPACITY (KW)	SENSIBLE COOLING CAPACITY (KW)	RATED HEATING CAPACITY (KW)	ELECTRICAL DATA			WEIGHT (KG)	REMARKS
								MCA (AMPS)	V/PH/HZ	EMERGENCY POWER (Y/N)		
CU-1	DAIKIN	RKF24AXVJU	CONDENSING UNIT	ROOF	6.57	-	-	14.2	208-230/1/60	N	101	SEE NOTES AND SPECIFICATIONS
CU-2	DAIKIN	RKF18AXVJU	CONDENSING UNIT	ROOF	5.30	-	-	14.2	208-230/1/60	N	101	SEE NOTES AND SPECIFICATIONS
CU-3	DAIKIN	RKF18AXVJU	CONDENSING UNIT	ROOF	5.30	-	-	14.2	208-230/1/60	N	101	SEE NOTES AND SPECIFICATIONS
CU-4	DAIKIN	RKF24AXVJU	CONDENSING UNIT	ROOF	6.57	-	-	14.2	208-230/1/60	N	101	SEE NOTES AND SPECIFICATIONS
CU-5	DAIKIN	RKF18AXVJU	CONDENSING UNIT	ROOF	5.30	-	-	14.2	208-230/1/60	N	101	SEE NOTES AND SPECIFICATIONS

NOTES:
1. UNITS COMPLETE WITH LOW-AMBIENT KIT FOR -40deg C AND SNOW/WIND GUARD.
2. REFRIGERANT SHALL BE R32.
3. COOLING CAPACITY BASED ON INDOOR: 27deg C D.B. / 19deg F W.B./ OUTDOOR: 35deg C D.B. / 24deg C W.B.
4. HEATING CAPACITY BASED ON INDOOR: 21deg C D.B./ OUTDOOR: 8.3deg C D.B. / 6.1deg C W.B.
5. SUPPORT STAND TO ELEVATE UNIT MINIMUM 450mm ABOVE GRADE OR ROOF LEVEL. SUPPORT STAND PROVIDED BY SUPPLIER.

SPLIT AIR CONDITIONING SYSTEM INDOOR UNIT SCHEDULE

REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	LOCATION	RATED COOLING CAPACITY (KW)	SENSIBLE COOLING CAPACITY (KW)	RATED HEATING CAPACITY (KW)	SUPPLY AIR (LOW-MID-HIGH) (L/S)	MCA (AMPS)	POWER SUPPLY (V/PH/HZ)	EMERGENCY POWER (Y/N)	WEIGHT (KG)	REMARKS
AC-1	DAIKIN	FTKF24AXVJU	WALL MOUNTED DUCTLESS	IT ROOM - 220	6.57	-	-	186/285/356	1.30	208-230/1/60	N	31	SEE NOTES AND SPECIFICATIONS
AC-2	DAIKIN	FTKF18AXVJU	WALL MOUNTED DUCTLESS	ELECTRICAL ROOM - 212	5.30	-	-	186/285/356	1.30	208-230/1/60	N	31	SEE NOTES AND SPECIFICATIONS
AC-3	DAIKIN	FTKF18AXVJU	WALL MOUNTED DUCTLESS	ELECTRICAL ROOM - 207H	5.30	-	-	186/285/356	1.30	208-230/1/60	N	31	SEE NOTES AND SPECIFICATIONS
AC-4	DAIKIN	FTKF24AXVJU	WALL MOUNTED DUCTLESS	ELECTRICAL ROOM - 216A	6.57	-	-	186/285/356	1.30	208-230/1/60	N	31	SEE NOTES AND SPECIFICATIONS
AC-5	DAIKIN	FTKF18AXVJU	WALL MOUNTED DUCTLESS	ELEVATOR MACHINE ROOM - 21E	5.30	-	-	186/285/356	1.30	208-230/1/60	N	31	SEE NOTES AND SPECIFICATIONS

NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL INDOOR UNITS.
2. COOLING CAPACITY BASED ON INDOOR: 80deg F (27C) D.B. / 67deg F (19C) W.B./ OUTDOOR: 95deg F (35C) D.B. / 75deg F(24C) W.B.
3. HEATING CAPACITY BASED ON INDOOR: 70deg F (21C) D.B./ OUTDOOR: 47deg F (8.3C) D.B. / 43deg F (6C) W.B.
4. C/W WIRED REMOTE PROGRAMMABLE T'STAT.
5. CAPABLE FOR BAS INTERFACE.

FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER / MODEL	TYPE	AREA SERVED	LOCATION	AIR FLOW (L/S)	E.S.P. (PA)	FAN SPEED (RPM)	ELECTRICAL				EMERGENCY POWER (Y/N)	WEIGHT (KG)	REMARKS
								VOLTAGE (V/PH/HZ)	POWER (KW)	FLA (A)	MOTOR (KW)			
EF-1	PENN BARRY / Z10S-INLINE-SC	IN-LINE EXHAUST FAN	DARTY DISPENSARY ROOM	CEILING	236	62	1007	115/1/60	0.04	2.5	0.25	N	10	1, 2, 3, 4,
	1. PROVIDE DIRECT DRIVE WITH EC MOTOR. 2. PROVIDE SPRING ISOLATORS AND BACKDRAFT DAMPER FOR ALL FANS. 3. INTERLOCK WITH AIR INTAKE VAV(S).' 4..C/W 50MM MERV-8 PLEATED FILTER AND FILTER BOX.'													

ELECTRIC HEAT TRACING SCHEDULE

TAG	SERVICE	PIPE		INSULATION (mm)	TENTATIVE OUTPUT (W/FT)	ELECTRICAL	EMERGENCY POWER (Y/N)	COMMENTS
		DIAMETER (mm)	LENGTH (m)			V/Ph/Hz		
ETC-1	WATER/DRAIN LINE HRV-01 HUMIDIFIER	20 &40	7.X2	50.0	5	208/1/60	Y	
ETC-2	WATER/DRAIN LINE HRV-02 HUMIDIFIER	20 &40	7X2	50.0	5	208/1/60	Y	
ETC-3	ROOF LOW PRESSURE STEAM LINE FROM...	50	8.0	50.0	5	208/1/60	Y	
ETC-4	ROOF LOW PRESSURE STEAM LINE FROM...	50	5.0	50.0	5	208/1/60	Y	
ETC-5	ROOF CONDENSATE DRAIN FROM HRV-2	32	5.0	50.0	5	208/1/60	Y	
NOTES:	1. PROVIDE CABLE SEGMENTS AS REQUIRED TO COMPLETELY TRACE PIPING RUN AS INDICATED ON DRAWINGS. 2. PROVIDE RAYCLIC (OR EQUIVALENT) POWERED AND UN-POWERED CONNECTIONS AND SUPPORTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM. 3. COMMUNICATIONS CABLE IS REQUIRED TO BE EXTENDED FROM PIPE MOUNTED RTD BACK TO CONTROLLER. ALLOW FOR SUFFICENT CONTROLS CABLING AND CONDUIT. 4. CONTROLS CABLE TO BE IN CONDUIT 5. HEAT TRACING AND PIPE SYSTEMS ARE DESIGNED FOR -10F AMBIENT TEMPERATURE. 6. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH SPECIFICATION(22 05 33 AND 23 07 19) REGARDING STANDARDS FOR PIPE INSULATION....							

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	LOCATION	MANUFACTURER	MODEL	TRIM AND ACCESSORIES						
					FAUCET/VALVE	FIXTURE DRAIN AND P-TRAP	VALVES AND SUPPLIES	CARRIER	SEAT	MISC	NOTES
LAV-2	UNIVERSAL ACCESS COUNTERTOP BARRIER FREE SINK	PUBLIC WASHROOM	AMERICAN STANDARD	MEZZO SEMI-COUNTERTOP SINK 9960.403	AMERICAN STANDARD MONTERREY 5500.0175	OS&B 3737 STRAINER DRAIN,LESS OVERFLOW MCGUIRE 155WC FIXTURE DRAIN	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFBV170	-	-		
WC-1	AFWALL MILLENNIUM FLOWISE TOILET WALL HUNG , FLUSH VALVE TYPE,	PUBLIC WASHROOM	AMERICAN STANDARD	AFWALL MILLENNIUM FLOWISE 3352.101	SLOAN 111 ESS-1.28-YG-OR-HW	MCGUIRE	SUPPLY MCGUIRE LFH166LK	WATTS ISCA-101-L/R	CENTOCO SLOW CLOSE FRONT SEAT 820STSS-001 WITH COVER	24VAC POWER KIT SL-EL-154	-
WC-2	RIGHT WIDTH FLOWISE TOILET FLOOR MOUNTED , FLUSH VALVE TYPE,	PUBLIC WASHROOM	AMERICAN STANDARD	RIGHT WIDTH FLOWISE 3641001.020	SLOAN 111 ESS-1.28-YG-OR-HW	MCGUIRE	SUPPLY MCGUIRE LFH166LK	-	CENTOCO SLOW CLOSE FRONT SEAT 820STSS-001 WITH COVER	24VAC POWER KIT SL-EL-154	-
S-1	STAINLESS STEEL UNDER COUNTER MOUNTED SINK	PHARMACY LAB	ELKAY	ELKAY ELUH2115	ZURN Z831B3-XL	MCGUIREPW2150WC	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCK165LK	-	-	-	-
S-2	COUNTER MOUNTED	DENTAL OPERATORY	ADEC	ADEC 592	ADEC	MCGUIRE 155WC MCGUIRE 8872CB	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCK165LK	ADEC			OWNER PROVIDE COMBINED UINT SINK AND FAUCET. VALVES AND ALL RELATED TRIM PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
S-3	T- WALL SINK	DENTAL CHAIROPEN SPACE	ADEC	ADEC 593	ADEC	MCGUIRE 155WC MCGUIRE 8872CB.	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCK165LK	ADEC		LOOP VENT BY ADEC	OWNER PROVIDE COMBINED UINT SINK AND FAUCET. VALVES AND ALL RELATED TRIM PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
S-4	COUNTER MOUNTED SINK FOR EYE WASH SPRAY	DENTAL CLINIC	ELKAY	ELKAY LUSTERTONE LR1918	NO FAUCET	MCGUIREPW2150WC	-	-	-	ONE HOLE TO SUIT EYE WASH SPRAY	
EW-1	COUNTER MOUNTED EYE WASH SPRAY	DENTAL CLINIC	ULINE	GRENCH HOSE DECK MOUNT H-9459	-	-	MIXING VALVE AXION 9201EW, SUPPLY MCGUIRE LFBV169	-	-	-	
EW-2	SINK MOUNTED	PHARMACY LAB	ULINE	GRENCH HOSE DECK MOUNT H-9460	-	-	MIXING VALVE AXION 9201EW, SUPPLY MCGUIRE LFBV170	-	-	-	
FD-1	FLOOR DRAIN	PUBLIC WASHROOM , UNIVERSAL , CLEAN UTILITY,	WATTS	WATTS FD-100-C-FC9-1	-	100MM DRAIN	-	-	-	-	FOR VINYL OR TILE AREA FLOORING AREA AND RELSILENT SAFETY SHEET OR SAFETY SHEET...
HD-1	HUB DRAIN	AS INDICATED	WATTS	FD-100-C-F	-	75/50MM DRAIN	-				
TSP	ELECTRIC TRAP SEAL PRIMER	AS INDICATED	PPP	PT-4 TO PT-2130	-	-	-	-	-	-	TSP SERVICES FRROM 4 TRAPS UP TO 30 TRAPS, FINAL MODEL SHOULD BASED ON SERVICES TRAP NUMBER
NOTES:	1. COLOUR OF ALL FIXTURES (EXCEPT STAINLESS STEEL) & WATER CLOSET SEATS SHOULD BE WHITE OR PER ARCHOTECT REQUIREMENT. 2. QUANTITY OF FIXTURES AS INDICATED IN THE DRAWINGS. 3. FIXTURES IN DENTAL OPERATIRY SERVERY AREAS ARE SUPPLIED BY DENTAL CHAIR MANUFACTUROR.										

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#	DATE:	REVISION:	BY:
11	2026-06-19	ISSUED FOR ADDENDUM NO. 1	EXP
10	2026-05-29	ISSUED FOR TENDER	EXP
9	2026-01-09	ISSUED FOR 100% CD	EXP
8	2025-12-19	ISSUED FOR 100% CD DRAFT	EXP
7	2025-12-05	ISSUED FOR PERMIT	EXP
6	2025-11-26	RE-ISSUED FOR F&S REVIEW	EXP
5	2025-09-26	ISSUED FOR 80%CD	EXP
4	2025-05-30	ISSUED FOR 100%DD	EXP
3	2025-04-02	ISSUED FOR 50%DD PROGRESS	EXP
2	2025-03-14	REISSUED FOR 100% SCHEMATIC DESIGN	EXP
1	2025-02-28	ISSUED FOR 100% SCHEMATIC DESIGN	EXP

REVISIONS

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G6

SCHEDULES#1

SCALE:
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 02/04/25

DRAWING NUMBER:
M-700

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exp Services Inc.
220 Commerce Valley Drive West, Suite 110
Markham, Ontario
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Telephone: 905.695.3217
Facsimile: 905.695.0167

Electrical Addendum No. 1

Reference: Coordination and Clarification

Issue Date: June 19, 2026

Project: U of T, Faculty of Dentistry
Clinic 2 Renovation

This addendum shall form an integral part of the Bid Documents for the above project and shall be read in conjunction therewith. This addendum shall, however, take precedence over all requirements of the previously issued Drawings and Specifications with which it may prove to be at variance, unless otherwise clarified by the Consultant.

This addendum must be signed by the Bidder in the appropriate space and must be attached to the back of the Bid Form for submission at the time of bidding. Bids not including this addendum signed as requested may be rejected as informal.

Revisions / Clarifications

The following changes and clarifications shall be considered when submitting your bid.

1. ELECTRICAL DRAWINGS

1.1. E-001: ELECTRICAL DRAWING LIST, LEGENDS & GENERAL NOTES

1.1.1. Add legend for “Press to Reset” button PR. Drawing is not re-issued.

1.2. E-203: PARTIAL LEVEL 2 – POWER & SYSTEMS

1.2.1. For Universal WC 227W & BF WC 210A, replace request to exit button with “Press to Reset” button.

1.2.2. Relocate one housekeeping receptacle at new waiting areas.

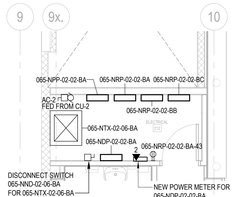
1.3. E-702: ELECTRICAL DETAILS

1.3.1. Typical Universal Washroom Wiring Diagram - replace request to exit button with “Press to Reset” button. Two device descriptions are revised.

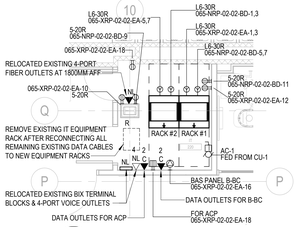
2. **ELECTRICAL SPECIFICATIONS**

N/A

---------- END OF ELECTRICAL ADDENDUM No. 1 ----------



6 E-203 ENLARGED PLAN - LEVEL 2 ELEC ROOM 212
SCALE: 1 : 50



2 E-203 ENLARGED PLAN - LEVEL 2 IT ROOM 220
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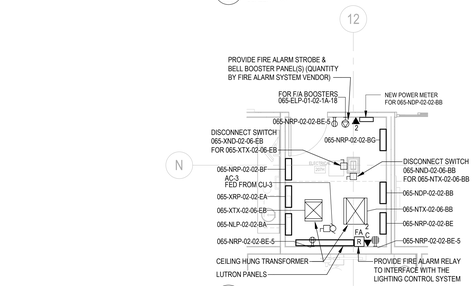

7 E-203 ENLARGED PLAN - LEVEL 2 ELEC ROOM 207H
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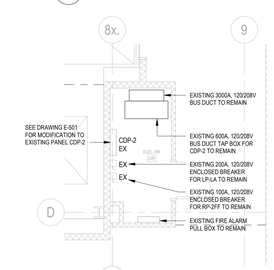

3 E-203 ENLARGED PLAN - LEVEL 2 ELEC ROOM 209
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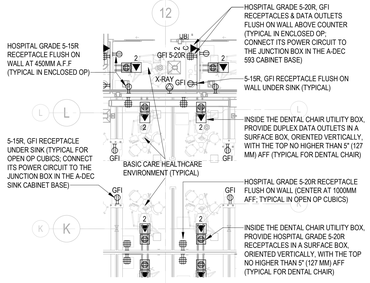
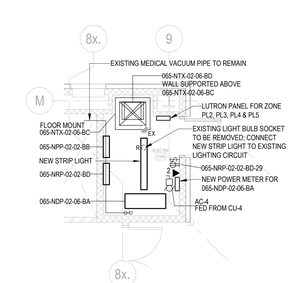
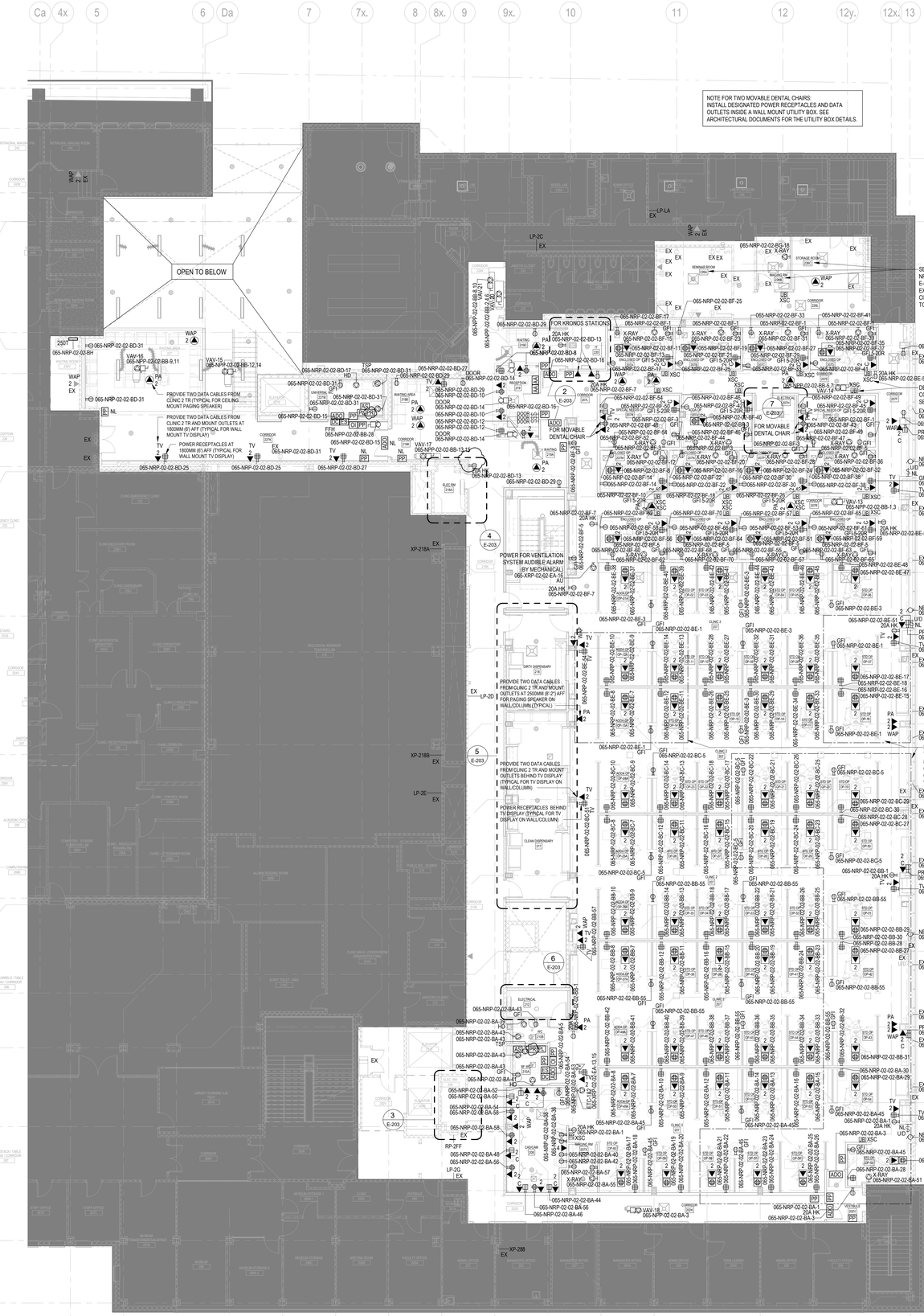


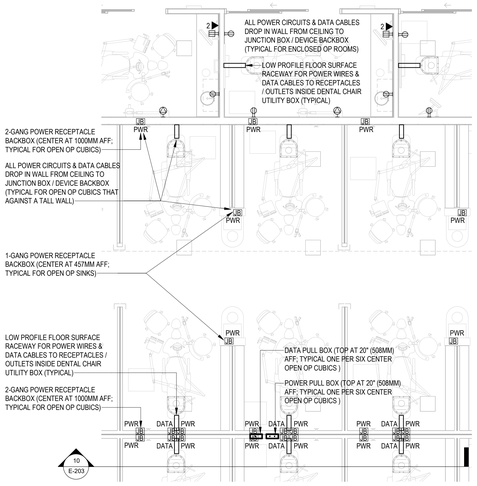
8 E-203 TYPICAL CLINIC 2 OP - ELECTRICAL
SCALE: 1 : 100



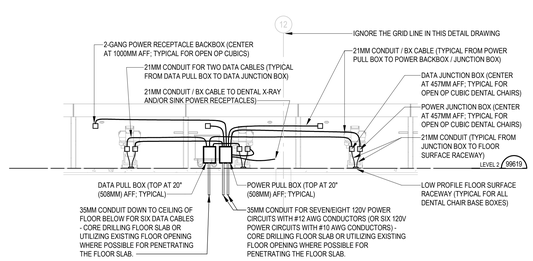
4 E-203 ENLARGED PLAN - LEVEL 2 ELEC ROOM 216A
SCALE: 1 : 50



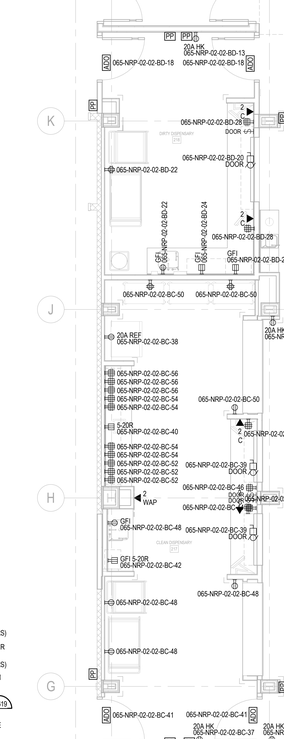
1 E-203 PARTIAL LEVEL 2 - POWER & SYSTEMS
SCALE: 1 : 100



9 E-203 TYPICAL CLINIC 2 OP - ELECTRICAL ROUGH-IN
SCALE: 1 : 50



10 E-203 TYPICAL CLINIC 2 OP ELEVATION - ELECTRICAL ROUGH-IN
SCALE: 1 : 50



5 E-203 ENLARGED PLAN - LEVEL 2 DISPENSARY ROOMS 217 & 218
SCALE: 1 : 50

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#	DATE:	REVISION:	BY:
8	19 JUN 2026	ADDENDUM No.1	EXP
7	29 MAY 2026	ISSUED FOR TENDER	EXP
6	09 JAN 2026	ISSUED FOR 100% CD	EXP
5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	30 MAY 2025	ISSUED FOR 100% DD	EXP
1	02 MAY 2025	ISSUED FOR DD PROGRESS SET	EXP

REVISIONS

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DENTISTRY BUILDING
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MRK-21019389-A0

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PARTIAL LEVEL 2 - POWER & SYSTEMS

SCALE:	As indicated
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	MRK-21019389-A0
PLOT DATE:	05/12/25

DRAWING NUMBER:
E-203

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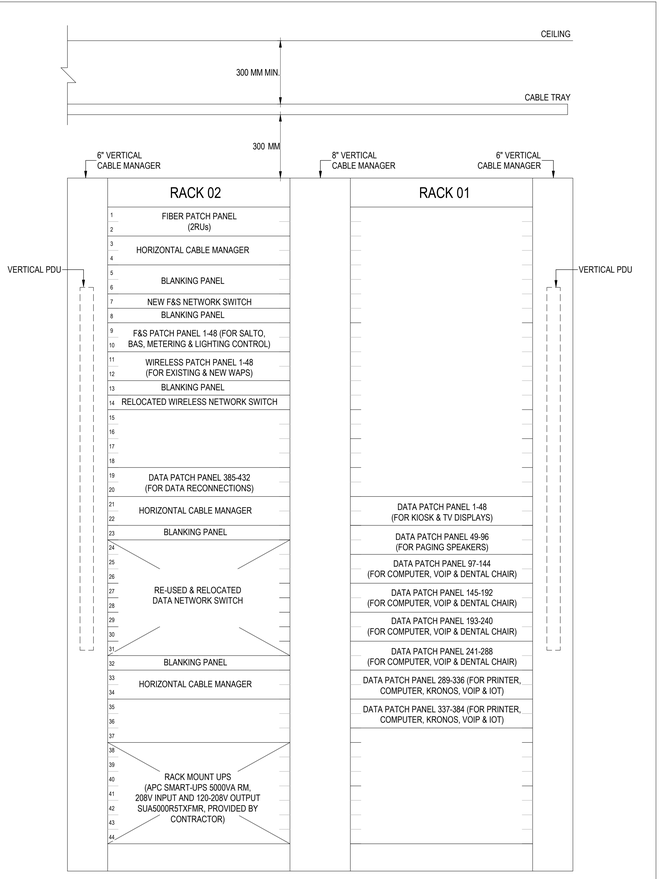
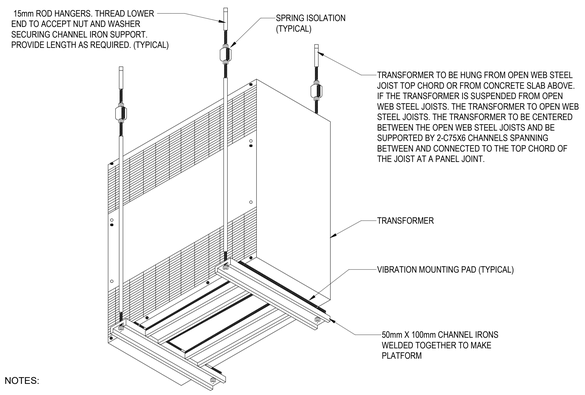


NOTES:

1. PROVIDE 44 RU 4-POST RACKS AS SPECIFIED.
2. PROVIDE RACK MOUNT UPS, PDUs, PATCH PANELS, CABLE MANAGERS, ETC., AS SPECIFIED AND AS INDICATED.
3. EXISTING DATA NETWORK SWITCH AND WIRELESS NETWORK SWITCHE WILL BE RE-USED AND RELOCATED INTO THE NEW RACK AS INDICATED. NEW F&S NETWORK SWITCH WILL BE PROVIDED BY THE OWNER.
4. PROVIDE DEDICATED PATCH PANEL(S) FOR DIFFERENT DATA DROPS AS INDICATED. FOLLOW SPECIFICATIONS FOR JACK COLORS ON PATCH PANELS.
5. FOR EXISTING FIBRE CABLE AND LIVE UTP DATA CABLES, DISCONNECT, RE-ROUTE AND RE-CONNECT IT TO NEW PATCH PANELS DESIGNATED FOR THE SYSTEM.
6. COORDINATE THE NETWORK INSTALLATION WITH THE OWNER.

7 / E-702 RACK ELEVATION
SCALE: NTS



NOTES:

1. SPACE CHANNEL IRONS SO THAT TRANSFORMER IS PROPERLY SUPPORTED.
2. ALLOW ADEQUATE ACCESS SPACE BETWEEN RODS AND TRANSFORMER FOR REMOVAL OF FRONT COVER.
3. COORDINATE TRANSFORMER LOCATION AND MOUNTING WITH STRUCTURAL ENGINEER PRIOR TO START OF WORK.
4. PROVIDE FLEXIBLE CONDUIT FOR PRIMARY AND SECONDARY CONNECTIONS TO THE TRANSFORMER.
5. PROVIDE SEISMIC RESTRAINTS WHERE REQUIRED BY LOCAL BUILDING CODE. A COMPLETE SET OF SHOP DRAWINGS ARE TO BE SUBMITTED BY THIS CONTRACTOR ALONG WITH CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE FIELD.
6. THE XO POINT OF THE SECONDARY SIDE OF TRANSFORMER MUST BE GROUNDED TO MEET ESA REQUIREMENTS.

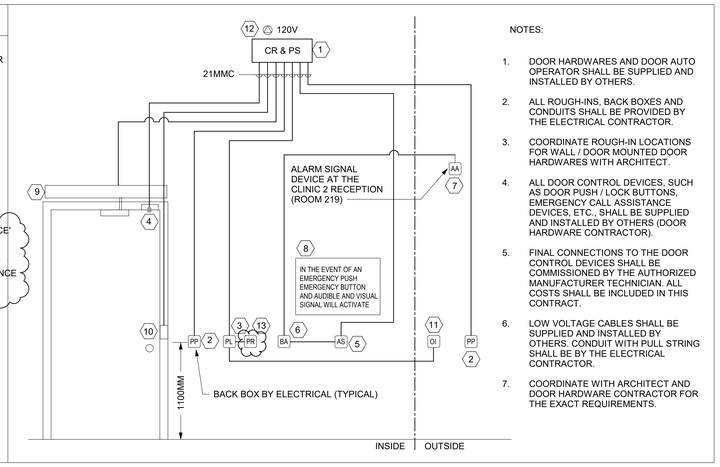
8 / E-702 TYPICAL TRANSFORMER SUSPENSION DETAIL
SCALE: NTS

DESCRIPTION

12 120V POWER FEED BY ELECTRICAL CONTRACTOR FOR DOOR OPERATOR & WASHROOM EMERGENCY CALL

OTHER EQUIPMENT SUPPLIED BY DOOR HARDWARE CONTRACTOR:

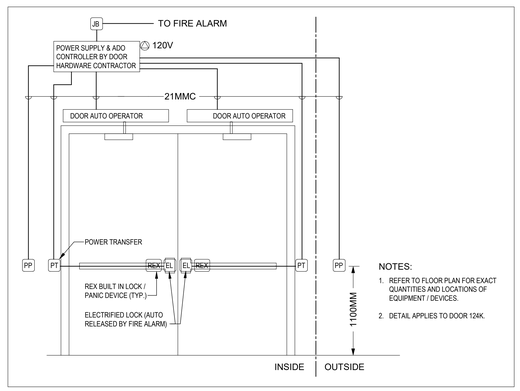
1. MULTI-FUNCTION CONTROL RELAY AND POWER SUPPLY
2. ILLUMINATED PUSH TO OPEN PLATE WITH ENCLOSURE AND SIGN
3. ILLUMINATED PUSH TO LOCK PLATE WITH ENCLOSURE AND SIGN
4. DOOR CONTACT
5. 'PRESS FOR EMERGENCY ASSISTANCE' STRIP / BUTTON (IF REQUIRED)
6. COMBINED 'PRESS FOR EMERGENCY ASSISTANCE' BUTTON AND 'ASSISTANCE REQUESTED' LED ANNUNCIATOR & SOUNDER (IF REQUIRED)
7. 'ASSISTANCE REQUESTED' SINGLE GANG DOME LIGHT WITH SOUNDER
8. EMERGENCY ASSISTANCE SIGN
9. DOOR AUTO OPERATOR
10. ELECTRIC STRIKE
11. LED OCCUPIED INDICATOR
13. 'PRESS TO RESET' BUTTON



NOTES:

1. DOOR HARDWARES AND DOOR AUTO OPERATOR SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
2. ALL ROUGH-INS, BACK BOXES AND CONDUITS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
3. COORDINATE ROUGH-IN LOCATIONS FOR WALL / DOOR MOUNTED DOOR HARDWARES WITH ARCHITECT.
4. ALL DOOR CONTROL DEVICES, SUCH AS DOOR PUSH / LOCK BUTTONS, EMERGENCY CALL ASSISTANCE DEVICES, ETC., SHALL BE SUPPLIED AND INSTALLED BY OTHERS (DOOR HARDWARE CONTRACTOR).
5. FINAL CONNECTIONS TO THE DOOR CONTROL DEVICES SHALL BE COMMISSIONED BY THE AUTHORIZED MANUFACTURER TECHNICIAN. ALL COSTS SHALL BE INCLUDED IN THIS CONTRACT.
6. LOW VOLTAGE CABLES SHALL BE SUPPLIED AND INSTALLED BY OTHERS. CONDUIT WITH PULL STRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
7. COORDINATE WITH ARCHITECT AND DOOR HARDWARE CONTRACTOR FOR THE EXACT REQUIREMENTS.

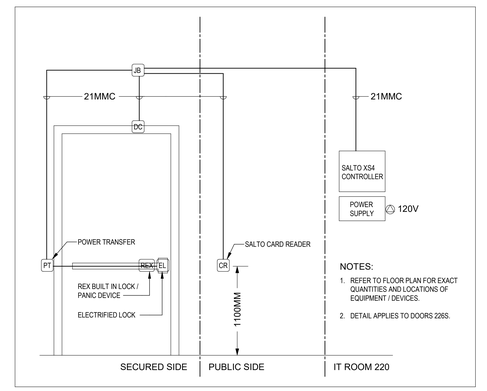
1 / E-702 TYPICAL UNIVERSAL WASHROOM WIRING DIAGRAM
SCALE: N.T.S



NOTES:

1. REFER TO FLOOR PLAN FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT / DEVICES.
2. DETAIL APPLIES TO DOOR 124K.

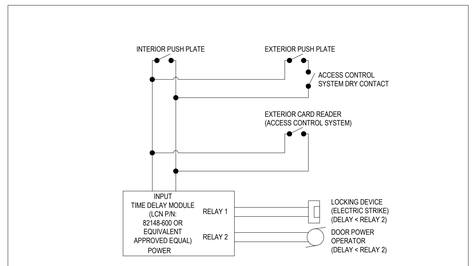
5 / E-702 CORRIDOR DOOR CONTROL WIRING DIAGRAM
SCALE: 1 : 1



NOTES:

1. REFER TO FLOOR PLAN FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT / DEVICES.
2. DETAIL APPLIES TO DOORS 226S.

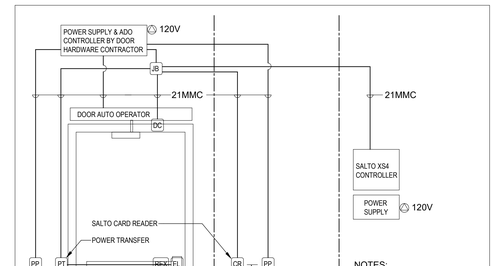
2 / E-702 ACCESS CONTROL WIRING DIAGRAM 1
SCALE: 1 : 1



NOTES:

1. THE EXTERIOR PUSH PLATE SHALL ACTUATE THE POWER OPERATOR WHEN THE DOOR IS IN AN UNLOCKED STATE.
2. ACCESS CONTROL SYSTEMS SHALL DISABLE EXTERIOR PUSH PLATE WHILE THE DOOR IS IN A LOCKED STATE. THE CARD READER SHALL ACTUATE THE POWER OPERATOR IN THE LOCKED STATE.
3. THE INTERIOR PUSH PLATE SHALL ALWAYS ACTUATE THE POWER OPERATOR.
4. THE TIME DELAY MODULE SHALL RELEASE THE LOCKING DEVICE PRIOR TO ACTUATING THE POWER OPERATOR. FIELD COORDINATE REQUIRED DELAY TIMES.
5. COORDINATE THE DOOR'S SCHEDULE WITH THE OWNER.

6 / E-702 DOOR POWER OPERATOR INTERFACE DETAIL
SCALE: NTS



NOTES:

1. REFER TO FLOOR PLAN FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT / DEVICES.
2. DETAIL APPLIES TO DOORS 217A, 217B, 218A, 218B, 219A & 219C.

4 / E-702 ACCESS CONTROL WIRING DIAGRAM 3
SCALE: 1 : 1

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#	DATE:	REVISION:	BY:
6	19 JUN 2026	ADDENDUM No.1	EXP
5	29 MAY 2026	ISSUED FOR TENDER	EXP
4	09 JAN 2026	ISSUED FOR 100% CD	EXP
3	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
2	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
1	26 SEPT 2025	ISSUED FOR 80% CD	EXP

REVISIONS

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON, M5G 1G6

ELECTRICAL DETAILS

SCALE:	NTS
DRAWN BY:	Author
REVIEWED BY:	Checker
JOB NUMBER:	MRK-21019389-A0
PLOT DATE:	05/12/25

DRAWING NUMBER:
E-702

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