

SW247, SW526, SW545 & SW546

INTERIOR RENOVATION-SCIENCE WING

UNIVERSITY OF TORONTO SCARBOROUGH

DRAWING LIST

ARCHITECTURAL:
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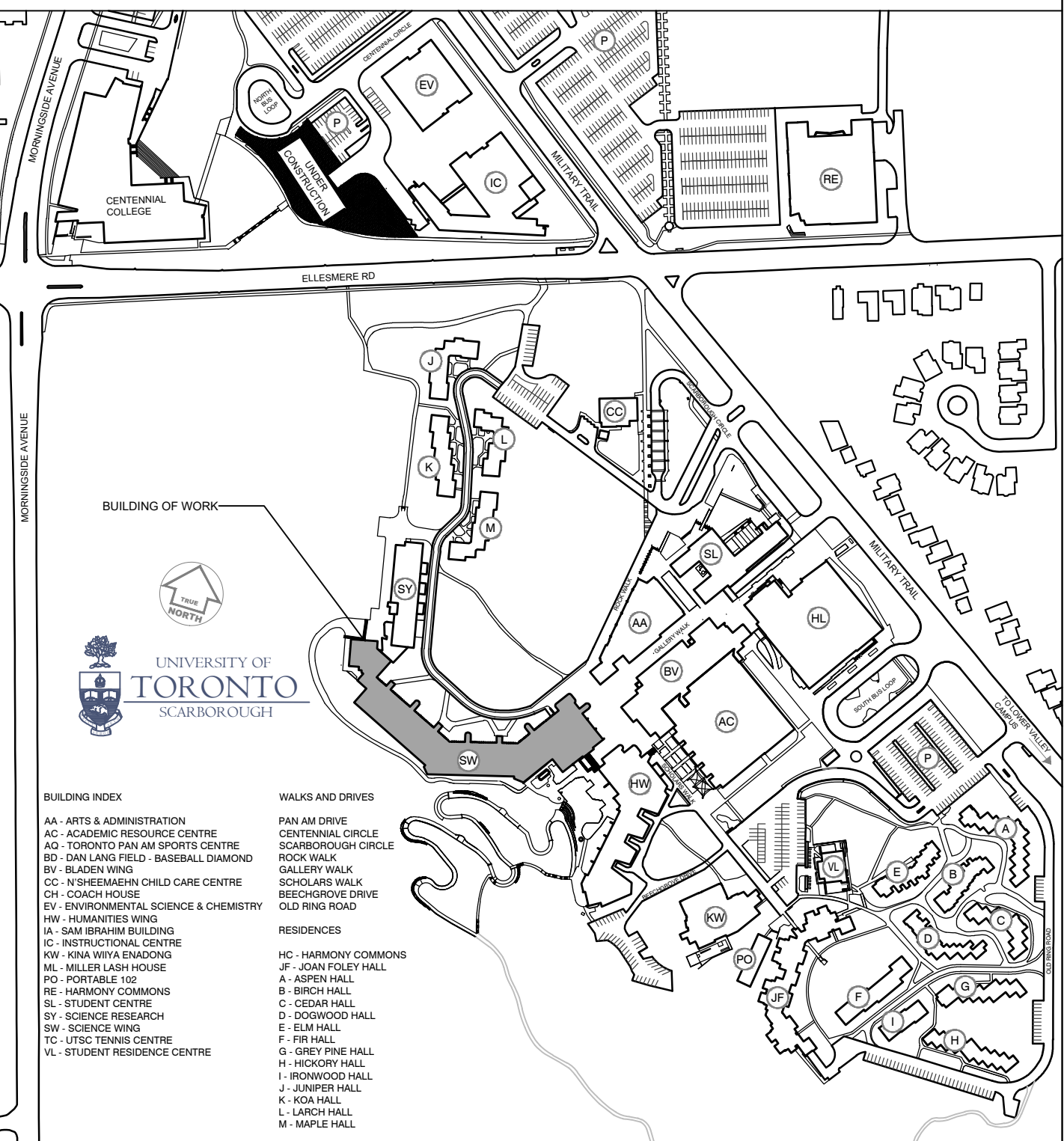
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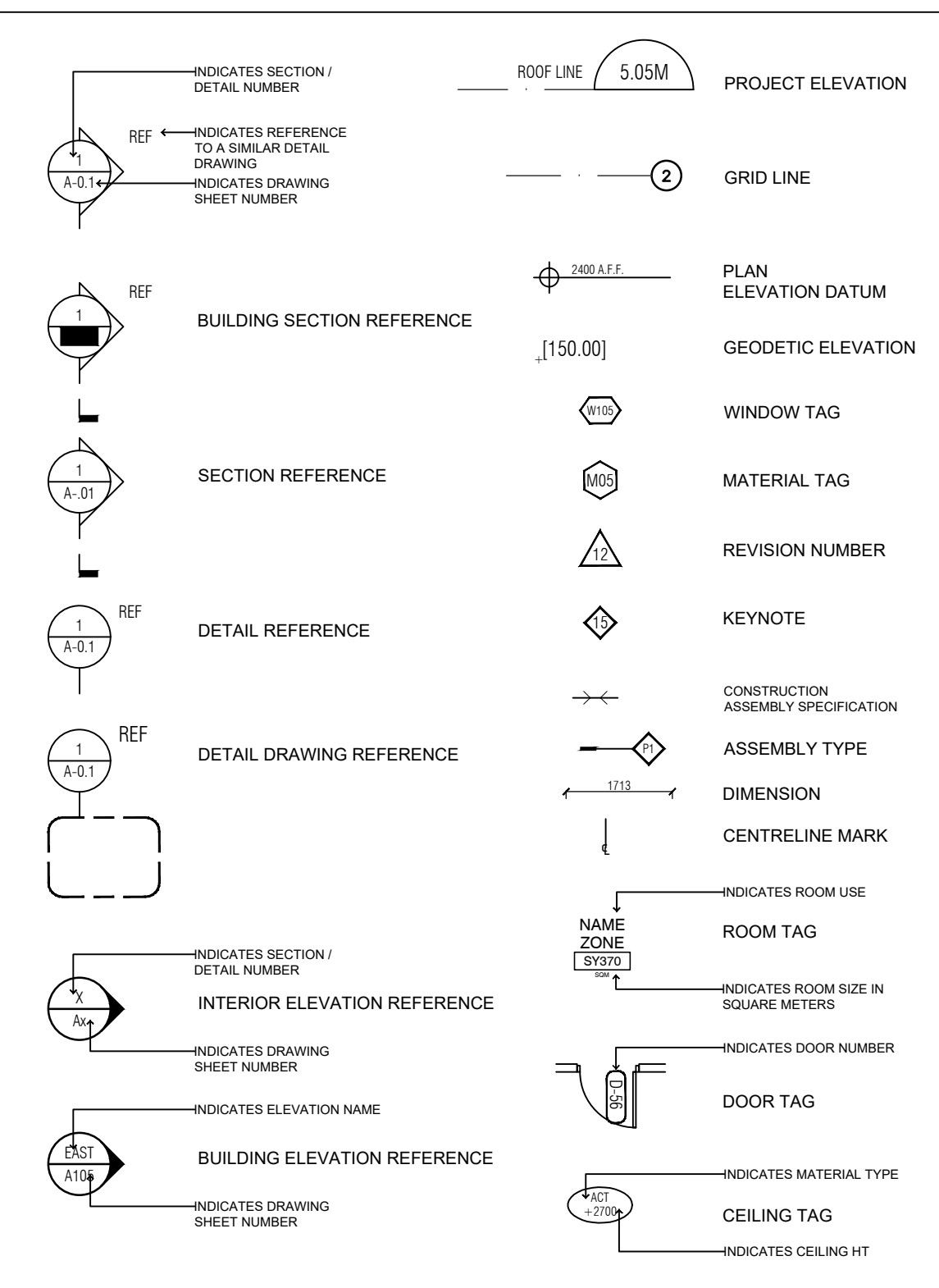
TYPICAL ABBREVIATIONS

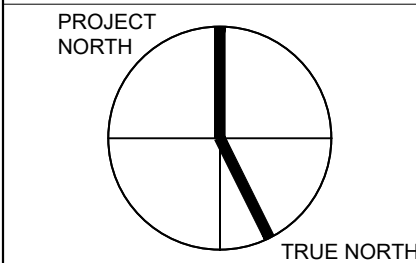
ACP	ACOUSTIC PANEL	FXTR	FIXTURE	PCC	ARCHITECTURAL PRECAST
ACPL	ACOUSTIC PLASTER	FL	FLOOR	CONCRETE	
ACT	ACOUSTIC CEILING TILE	FD	FLOOR DRAIN	PC	TERR PRECAST TERRAZZO
AC	AIR CONDITIONING	FS	FLOOR SUMP	PCFAB	PREFABRICATED
AD	ACCESS DOOR	FSJ	FOOTING	PREFIN	PREFINISHED
ADR	AREA DRAIN	FSJR	FOOT GRILLE	PS	PROJECTION SCREEN
ADD	ADDENDUM	FB	FLOOR BOX	PROT BD	PROTECTION BOARD
ADJ	ADJUSTABLE	FDN	FOUNDATION	PA	PUBLIC ADDRESS
ADO	AUTOMATIC DOOR OPERATOR			PP	POWER PANEL
AES	ARCHITECTURAL EXPOSED	GALV	GALVANIZED	PB	PUSH BUTTON (DOOR OPERATOR)
STEEL	ARCHITECTURAL EXPOSED	GALV STL	GALVANIZED STEEL		
AGG	AGGREGATE	GA	GAUGE		
AL	ALUMINUM	GL	GLASS / GLAZING (SEE GLASS TYPES)	RAD	RADIUS
ANOD	ANODIZED	GL BLK	GLASS BLOCK	RWL	RAIN WATER LEADER
AP	ACCESS PANEL	GR	GRADE	PCPT	RECEPTACLE
APPROX	APPROXIMATE(LY)	GRD	GROUND	REC	RECESS(ED)
ARA	AREA OF RESCUE ASSISTANCE	GYP	GYPSPUM BOARD	REINFD	REINFORCED
ARCH	ARCHITECTURE(AL)	GYP	GYPSPUM BOARD	RST	REINFORCING STEEL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GWB	GYPSPUM BOARD	RS	RESILIENT BASE
A.T.A.A.	AIR TERMINAL (LIGHTNING ROD)	GYP	LATH GYPSPUM LATH	REQD	REQUIRED
AUX	AUXILIARY	GB	GRAB BAR	RFL	RESILIENT FLOORING
AV	AIR & VAPOUR BARRIER	G/L	GROSS FLOOR AREA	RFG	REFRIGERATOR
AVM	AIR, VAPOUR, & MOISTURE BARRIER	GR	GRID LINE	RN	RESILIENT NOSING
@		H.O.CNC	HARDENED CONCRETE	RR	RESILIENT RISER
BD	BOARD	HDR	HARDENER	RH	RIGHT-HAND
BF	BARRIER FREE	HDW	HARDWARE	RHR	RIGHT-HAND REVERSE
BH	BORE HOLE	HT	HEIGHT	R	RISER
BLDG	BUILDING	HO	HOLD OPEN	RSH	ROLLING SHUTTER DOOR
BLKG	BLOCKING	HM	HOLLOW METAL	RM	ROOM
BLKHD	BULKHEAD	HSS	HOLLOW STRUCTURAL STEEL	(SEE RFL)	RUBBER TILE
BM	BEAM	HORZ	HORIZONTAL	RA	ROOF ANCHOR
B.M.	BENCHMARK	HB	HOSE BIB	RD	ROOF DRAIN
BRK	BRICK	HW	HOT WATER	RCP	REFLECTED CEILING PLAN
BSMT	BASEMENT	HWH	HOT WATER HEATER	RJ	REVEAL JOINT
BTM	BOTTOM	HR	HOUR	RM	ROOM
BUR	BUILT-UP ROOFING (BY DIMENSION)	HS	HAND SINK	RO	ROUGH OPENING
X		HDPE	HIGH-DENSITY POLYETHYLENE	R/A	RETURN AIR
		HP	HIGH POINT	RN	RADIANT CEILING PANEL
CA	CARD ACCESS	INCL	INCLUDING	RWS	ROLLER WINDOW SHADE
CR	CARD READER	INFO	INFORMATION	SAN	SANITARY
CGSB	CANADIAN GENERAL STANDARDS BOARD	ID	INSIDE DIAMETER	SLR	SEALER
CSA	CANADIAN STANDARDS ASSOCIATION	INS	INSULATION (SEE INSULATION TYPES)	(SEE EPFL)	SEAMLESS RESIN FLOOR
CPT	CARPET / CARPET TILE	INSUL	INSULATION	SECT	SECTION
CB	CAST IRON	INSULR	INSULATION RENDERED	SA	SECURITY ACCESS
CB	CATCH BASIN	INT	INTERIOR	UPPLY AIA	SUPPLY AIR
CLG	CEILING	IFC	INTUMESCENT FIREPROOF COATING	SH	SHEET
CEM	CEMENT	INV	INVERT	(SEE RFL)	SHEET RESILIENT FLOORING
CEMBD	CEMENT BOARD	IC	INTERCOM	SIM	SIMILAR
CEMPL	CEMENT PLASTER	JC	JANITOR'S CLOSET	SLOP SINK	SLOP SINK
CEMR	CEMENT RENDERING	JT	JOINT	SOFF	SOFFIT
C/L	CENTRE LINE	JNR	JOINER	SP	SOLID POLYMER
C/C	CENTRE TO CENTRE	JST	JOIST	SSM	SOLID SURFACING MATERIAL
CT	CERAMIC TILE / PORCELAIN TILE	JR	JUNIOR	S	SOUTH
CLF	CHAIN LINK FENCING	JS	JANITOR'S SINK	SPEC	SPECIFICATION
CHBD	CHALKBOARD	KO	KNOCK-OUT (PANEL)	SQ	SQUARE
CO	CLEAN OUT	KP	KITCHEN(ETTE)	SIB	STANDARD IRON BAR
CLR	CLEAR FINISH	KITCH	KITCHEN(ETTE)	SS	STAINLESS STEEL
CLO	CLOSET	LAB	LABORATORY	STL	STEEL
CRS	COLD-ROLLED STEEL	LAV	LAVATORY	STO	STONE
CW	COLD WATER	LH	LEFT-HAND(ED)	STOR	STORAGE
CP	CONTROL PANEL	LHR	LEFT-HAND REVERSE	STR	STRUCTURAL
CONV	CONVECTOR	LEV	LEVEL	SWBD	SWITCHBOARD
CORR	CORRIDOR	LS	LIGHT STANDARD	SSG	STRUCTURAL SILICONE GLAZING
CG	CORNER GUARD	LIN	LINEAR	SD	SUB-DRAINAGE
CU	CUBIC	LIN MET	LINEAR METAL	SDI	SUB-DRAINAGE INVERT
CUPBD	CUPBOARD	LSSJ	LONG SPAN STEEL JOIST	SN	STAIR NOSING
CURT	CURTAIN TRACK	LEC	LECTERN	SPF	SPORTS FLOORING
COL	COLUMN	LVR	LOUVER	SAFB	SOUND ATTENUATION FIRE BLANKETS
CW	COMPLETE WITH CURTAIN WALL (#)	LB	LIGHT BOLLARD	TB	TACK BOARD
CONC	CONCRETE	L.D.	LIMITING DISTANCE	TEL	TELEPHONE
CBLK	CONCRETE BLOCK	LP	LOW POINT	TEL P.	TELEPHONE PANEL
CONST	CONSTRUCTION	MAINT	MAINTENANCE	TEMP	TEMPERATURE
CONT	CONTINUOUS	MH	MANHOLE	TERR	TERRAZZO
CJ	CONTROL JOINT	MO	MASONRY OPENING	(SEE EPC)	TEXTURED COATING
		MAT S	MAT SINKAGE	(SEE EPCX)	TEXTURED COATING EXTERIOR
DPC	DAMP-PROOF COURSE	MAX	MAXIMUM	(SEE EPFL)	THIN SET TERRAZZO
DPM	DAMP-PROOF MEMBRANE	MECH	MECHANICAL	TWF	THROUGH WALL FLASHING
DEG.C	DEGREES CELSIUS	MED	MEDIUM	T&G	TONGUE & GROOVE
DEPT	DEPARTMENT	MEM	MEMBRANE	T/O	TOP OF
DET	DETAIL	MEM AS	MEMBRANE AIR SEAL	TCB	TOP OF CATCH BASIN
DIA	DIAMETER	MET	METAL	TOP OF CURB	TC
Ø	DIAMETER	MET AS	METAL AIR SEAL	TR	TREAD
DIM	DIMENSION	MET CLG	METAL PANEL CEILING	SJL	TRIPLE GLAZING
DIST	DISTANCE	MEZ	MEZZANINE	TYP	TYPICAL
DIV	DIVISION	MM	MILLIMETER	TT	TRAFFIC TOPPING
DGL	DOUBLE GLAZING (INSULATED) (SEE DGL TYPES)	MIN	MINIMUM	TBHM	THERMALLY BROKEN HOLLOW METAL
DN	DOWN	MISC	MISCELLANEOUS	THK	THICK
DWG	DRAWING	MSJ	MOUNTING	T	TREAD(S)
DF	DRINKING FOUNTAIN	MDF	MEDIUM DENSITY FIBREBOARD	TPD	TOILET PAPER DISPENSER
DW	DISHWASHER	MIR	MIRROR	TRANS	TRANSITION
E	EAST	MOP STRIP	MOP STRIP	U/C	UNDERCUT
ELEC	ELECTRICAL	MANUF	MANUFACTURE(R)	ULC	UNDERWRITERS' LABORATORIES CANADA
ELEV	ELEVATION (DATUM)	MW	MILLWORK (#)	UL	UNDERWRITERS' LABORATORIES USA
ENCL	ENCLOSURE	MOD-BIT	MODIFIED BITUMEN	U/G	UNDER GROUND
EQ	EQUAL	NBC	NATIONAL BUILDING CODE	U/S	UNDERSIDE
EPC	EPOXY COATING (INTERIOR WALLS & CEILINGS)	NFC	NATIONAL FIRE CODE	(SEE RFL)	URETHANE RESILIENT FLOORING
EPFL	EPOXY COATING (EXTERIOR WALLS & SOFFITS)	NOM	NOMINAL	UR	URINAL
EXCAV	EXCAVATE	N	NORTH	U/P	UTILITY (HYDRO) POLE
EXCL	EXCLUDING	NIC	NOT IN CONTRACT	VB	VAPOR BARRIER
EX	EXISTING	NTS	NOT TO SCALE	VERT	VERTICAL
EXIST	EXISTING	NO	NUMBER	VEST	VESTIBULE
EXP JT	EXPANSION JOINT	NFHB	NON-FREEZE HOSE BIB	VCT	VINYL COMPOSITE TILE
EXP	EXPOSED	ND	NAPKIN DISPOSAL (SANITARY)	N	VINYL FABRIC
EXP AGGR	EXPOSED AGGREGATE	O/C	ON CENTRE	VWC	VINYL WALL COVERING
EXT	EXTERIOR	OBC	ONTARIO BUILDING CODE	V.I.F.A.	VERIFY IN FIELD
EIFS	EXTERIOR INSULATING FINISHING SYSTEM	OP	OPENING	W	WINDOW
EW	EMERGENCY EYE WASH	OWSJ	OPEN WEB STEEL JOIST	WR	WASHROOM
EO	ELECTRICAL OUTLET	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EP	EMERGENCY PHONE	OH	OVERHEAD	WPM	WATERPROOF MEMBRANE
EOS	EDGE OF SLAB	OFC	OFFICE	WS	WEATHERSTRIP
EBF	EXPOSED BUILDING FACE	PT	PAINT(ED)	WMM	WELDED WIRE MESH
		PR	PAIR	WB	WHITE BOARD
FAB	FABRIC (CLOTH, VINYL)	PTN	PARTITION	WF	WIDE FLANGE
FM	FACTORY MUTUAL	PVG	PAVING	WD	WOOD
FIN	FINISH(ED)	%	PERCENT(AGE)	WD FL	WOOD FLOORING
FIN FL	FINISHED FLOOR	PLAS	PLASTER	WI	WROUGHT IRON
FFE	FINISHED FLOOR ELEVATION	PLAM	PLASTIC LAMINATE	W	WITH
FDR	FIRE DOOR	PL	PLATE (STEEL)	WP	WATERPROOFING
FA	FIRE ALARM PULL STATION	PV	PLUMBING VENT		
FAP	FIRE ALARM ANUNCIATOR PANEL	PLWD	PLYWOOD		
FE	FIRE EXTINGUISHER	POL	POLISHED		
PEC	FIRE EXTINGUISHER CABINET	PVC	POLYVINYL CHLORIDE		
PHC	FIRE HOSE CABINET	PE	PORCELAIN ENAMEL		
FR	FIRE RATED				
FRR	FIRE RESISTANCE RATING				

UNIVERSITY OF TORONTO SCARBOROUGH KEY PLAN

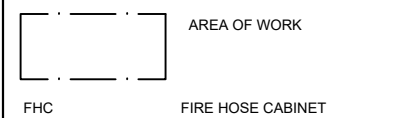


SYMBOL & LEGEND





LEGEND:



01 2025-05-01 ISSUED FOR TENDER NF

NO. DATE REVISION NO. BY

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SCARBOROUGH
1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #
DCM2024-09

PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

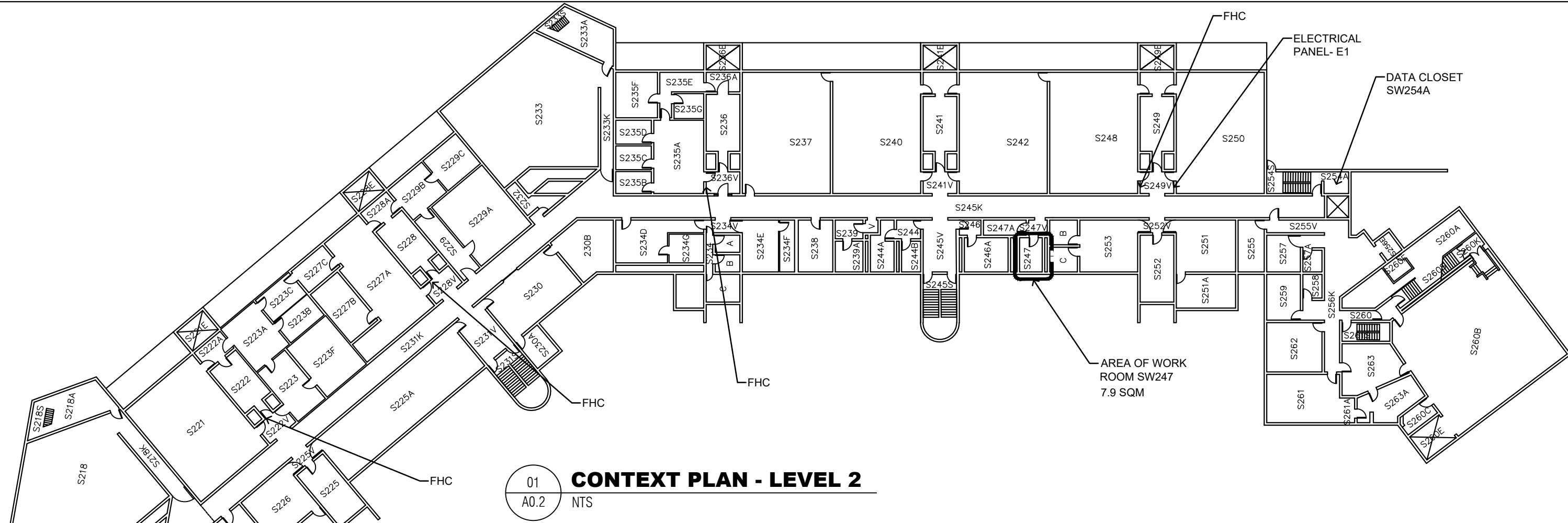
HUMANITIES WING, 1265 MILITARY TRAIL

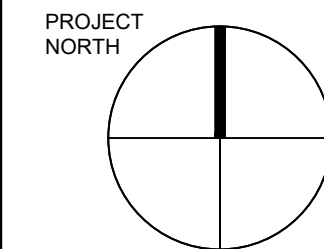
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CONTEXT PLANS

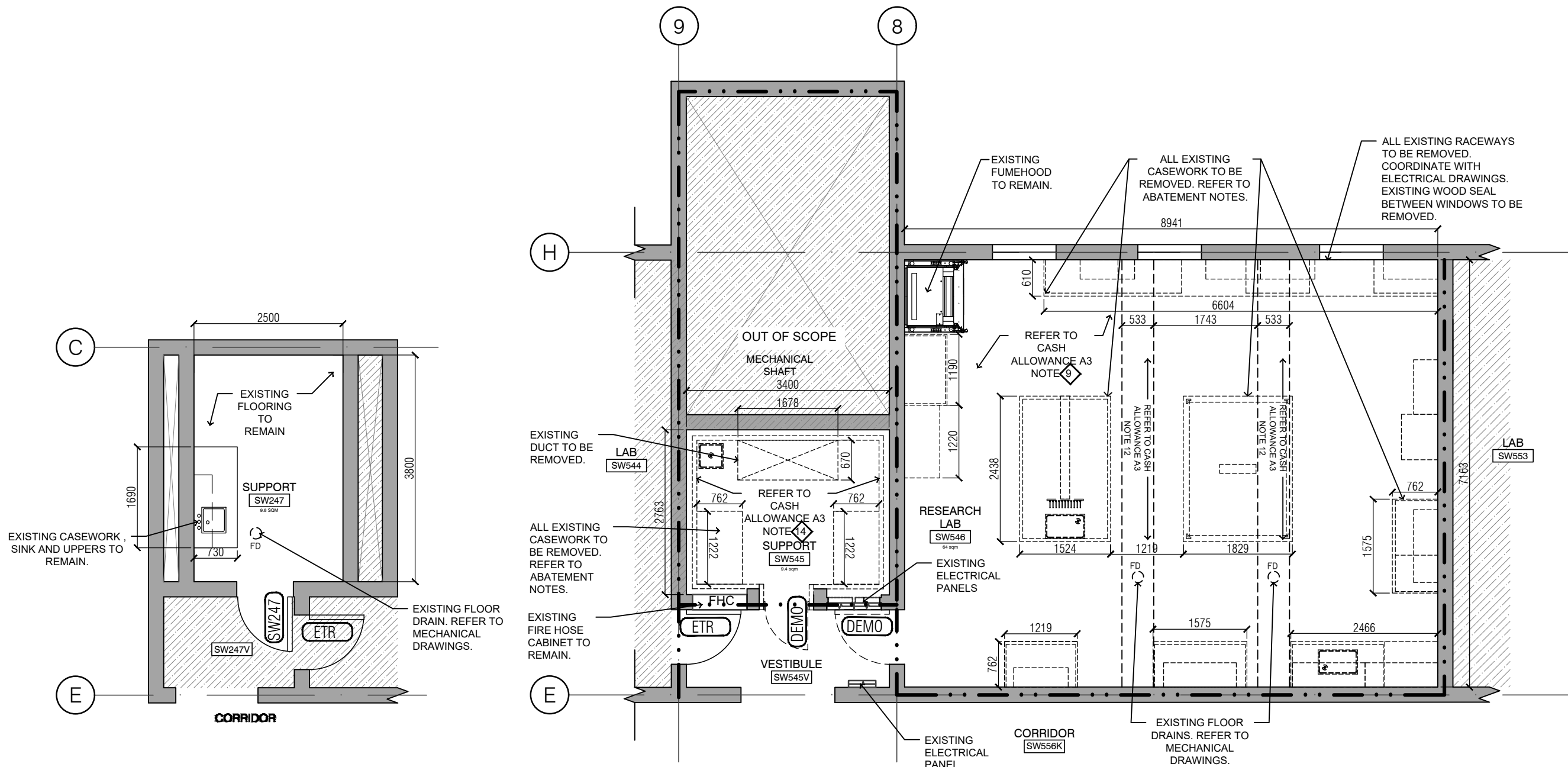
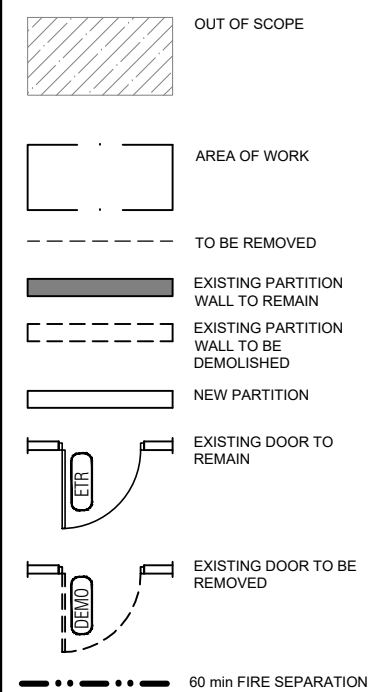
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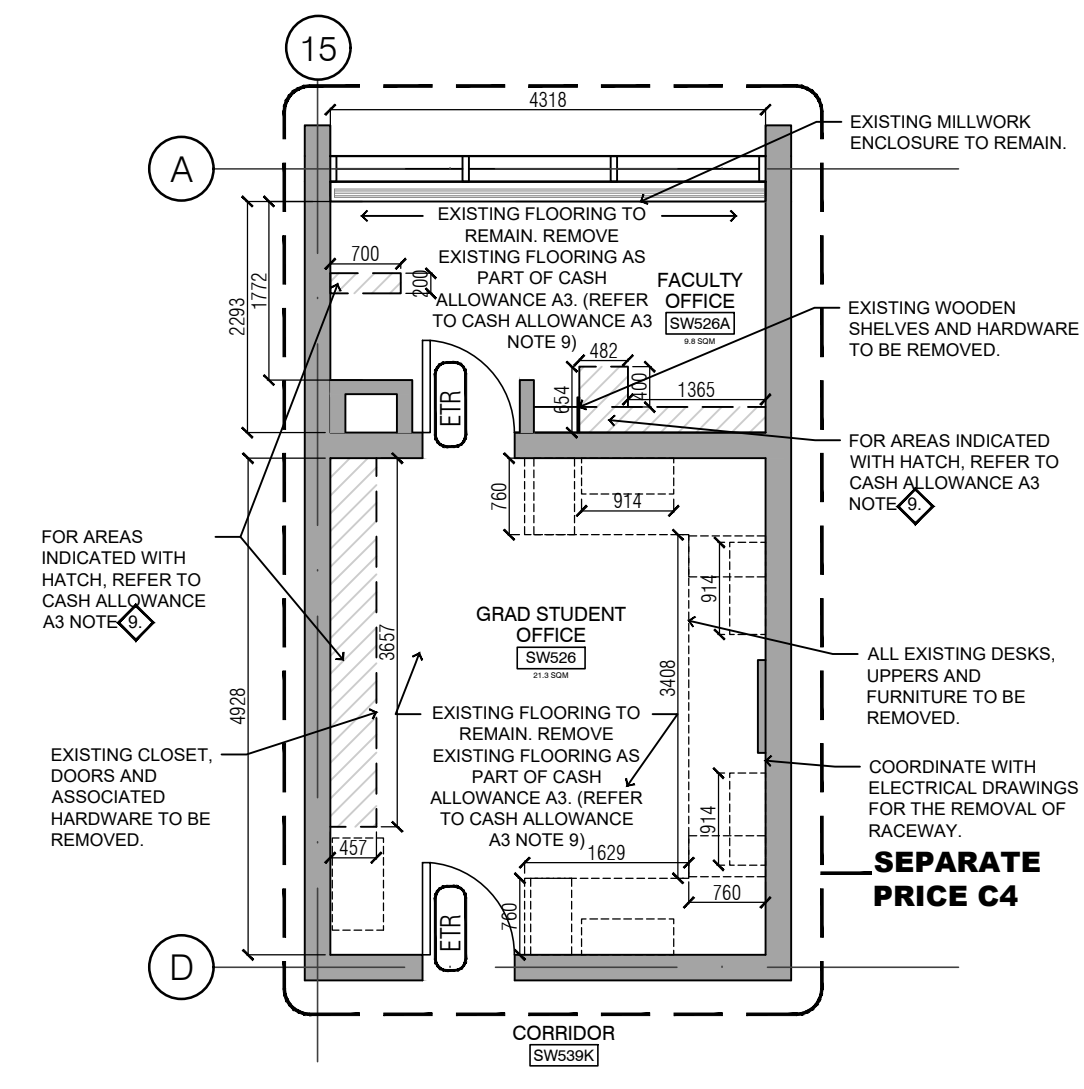


LEGEND:



01 **SW247 EXISTING FLOOR PLAN**
A1.1 1:75

02 **SW545 & SW546 EXISTING FLOOR PLAN**
A1.1 1:75



03 **SW526 & SW526A EXISTING FLOOR PLAN**
A1.1 1:75

GENERAL NOTES APPLY TO ALL DRAWINGS:

- THE DRAWINGS ARE NOT STANDALONE AND ARE TO BE READ IN CONJUNCTION WITH THE COMPLETE SET OF CONTRACT DOCUMENTS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING (PROVINCIAL & MUNICIPAL) AUTHORITIES.
- EXISTING CONSTRUCTION SHOWN HAS BEEN TAKEN FROM AVAILABLE INFORMATION, WHEN SPECIFIC DETAILS ARE UNAVAILABLE, ASSUMPTIONS HAVE BEEN MADE REGARDING PROBABLE CONSTRUCTION. ANY VARIANCE FROM CONSTRUCTION AS SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO ATTENTION OF UTSC PM.
- FILL ALL EXISTING HOLES LEFT FROM MECHANICAL AND ELECTRICAL SERVICES REMOVED OR RELOCATED TO MAINTAIN REQUIRED FIRE SEPARATIONS.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED BY CONSTRUCTION TO MATCH EXISTING ADJACENT.
- CLEAN UP DEBRIS ON A DAILY BASIS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY OFFSITE ON A REGULAR BASIS. BUILDING PREMISES ARE TO BE THOROUGHLY CLEANED PRIOR TO TAKEOVER BY THE OWNER.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND TIDY MANNER.
- ADEQUATELY PROTECT THE WORK AT ALL STAGES OF CONSTRUCTION AND MAINTAIN THE PROTECTION UNTIL WORK IS COMPLETED. REMOVE AND REPLACE AT NO EXPENSE TO THE OWNER ANY DAMAGED WORK AND MATERIALS THAT CANNOT BE REPAIRED OR RESTORED TO OWNER'S SATISFACTION.
- CONTRACTOR TO INCLUDE FOR REMOVAL, TEMPORARY STORAGE ON SITE OR HANDING OVER TO OWNER AS DETERMINED BY OWNER AND REINSTALLATION WHERE NOTED OF EXISTING EQUIPMENT, LIGHT FIXTURES, DOORS, HARDWARE, ETC. THAT ARE REQUIRED TO BE REMOVED, RELOCATED AND/OR REINSTALLED TO COMPLETE THE WORKS. ALL REMOVED MATERIALS REQUIRED TO BE REINSTALLED SHALL BE REINSTALLED IN UN DAMAGED CONDITION.
- EXISTING FURNITURE TO BE RELOCATED & STORED FOR FUTURE USE BY OTHRES (TYP).

DEMOLITION DRAWING NOTES:

- THE UTSC DEMOLITION DRAWINGS ARE TO BE READ WITH THE MECHANICAL, ELECTRICAL DEMOLITION DRAWINGS AND SPECIFICATIONS.
- THE DIMENSIONS SHOWN IN THIS DRAWING ARE FROM EXISTING ELEMENTS, SUCH AS THE FINISHED FACE OF WALLS AND CEILINGS TO THE FACE OF NEW WORK.
- IN AREAS OF RENOVATION, REMOVE ALL ITEMS THAT HAVE BECOME OBSOLETE OR DORMANT OR ARE NO LONGER NEEDED OR CONNECTED TO NEW WORK.
- BEFORE THE RENOVATION, CONSULT WITH UTSC PROJECT MANAGER AS TO WHICH ITEMS ARE TO BE REMOVED, REFURBISHED AND/OR STORED FOR REUSE.

- IN SITUATIONS WHERE THE EXISTING CONFIGURATION DIFFERS FROM THE DRAWINGS, CONSULT WITH THE UTSC PM BEFORE DEMOLITION.
- PROVIDE DUST REDUCTION MEANS AT EXITS TO PUBLIC HALLWAY DURING CONSTRUCTION.

DEMOLITION & ABATEMENT – AS PART OF CASH ALLOWANCE A3

IT IS REQUESTED THAT THE SUCCESSFUL PROPONENT CARRY A CASH ALLOWANCE NOTED IN THE RFP DOCUMENT, SCHEDULE D – PRICE FORM, FOR ALL DEMOLITION AND ABATEMENT WORK IN SW247, SW526, SW526A, SW545, AND SW546. REFER TO WSP PRE-RENOVATION HAZARDOUS MATERIALS ASSESSMENT REPORT, DATED APRIL 28, 2025 AND ABATEMENT NOTES.

- REMOVE AND DISPOSE OF INDICATED DOORS AND FRAMES.
- RETURN ALL UNUSED MEDECO CYLINDERS TO UTSC PROJECT MANAGER.
- REMOVE AND DISPOSE OF INDICATED FLOORING AND BASE, INCLUDING MASTIC ADHESIVE FLOOR SURFACE TO BE FREE FROM ALL DEBRIS, BARBS AND ANY OTHER OBSTRUCTION THAT WOULD OTHERWISE COMPROMISE INSTALLATION OF NEW FLOOR FINISH.
- CAREFULLY REMOVE AND DISPOSE OF INDICATED METAL CASEWORK, EPOXY COUNTERTOPS AND SUPPORTS IN SW526, SW545 & SW546.
- REMOVE AND DISPOSE OF ALL EXISTING FIXED SHELVING, UPPER CABINETS, GLASS DISPLAY CASES, WHITE BOARDS / MESSAGE BOARDS AND COAT HOOKS IN SW526, SW545 & SW546.
- REMOVE AND DISPOSE OF EXISTING TRENCH COVER AND ALL ASSOCIATED HARDWARE.
- REMOVE AND DISPOSE OF ALL SINKS AND FAUCETS IN SW545 AND SW546. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PLUMBING AND ELECTRICAL DISCONNECTS.
- REMOVE AND DISPOSE OF EXISTING COLD ROOM AND ALL ASSOCIATED COMPONENTS.

ABATEMENT NOTES:

- ALL MATERIALS WITHIN SCOPE OF WORK THAT ARE IDENTIFIED AS ASBESTOS CONTAINING MATERIAL (ACM) ARE TO BE REMOVED.
- REMOVAL OF ACM TO BE CARRIED OUT IN CONFORMANCE WITH THE MINISTRY OF LABOUR'S PROCEDURES AS DESCRIBED IN THE ONTARIO REGULATION 278/05 DESIGNATED SUBSTANCE —ASBESTOS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS, SERVING AS PART OF THE OCCUPATIONAL HEALTH & SAFETY ACT & UNIVERSITY OF TORONTO PROCEDURES.
- ABATEMENT CONTRACTOR TO ENSURE ALL REMOVAL PROCEDURES ARE ADHERED TO INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- THE GENERAL CONTRACTOR AND ABATEMENT CONTRACTOR ARE REQUIRED TO MEET WITH UNIVERSITY OF TORONTO PROJECT MANAGER AND ENVIRONMENTAL HEALTH & SAFETY OFFICER A MINIMUM OF 5 DAYS IN ADVANCE OF WORK TO OCCUR FOR A PRE-ABATEMENT SITE MEETING TO COORDINATE SITE SPECIFIC ABATEMENT CONTAINMENT STRATEGIES AND PROCEDURE.
- GENERAL CONTRACTOR AND ABATEMENT SUBCONTRACTOR TO COORDINATE HVAC SHUT DOWN WITH UNIVERSITY OF TORONTO, DESIGN & CONSTRUCTION MANAGEMENT PROJECT MANAGER A MINIMUM 5 DAYS IN ADVANCE OF WORK TO OCCUR.
- ABATEMENT WORK MUST BE COMPLETED AFTER HOURS BETWEEN 10:00 PM AND 6:00 AM. PREPARATION CAN OCCUR DURING REGULAR WORKING HOURS.
- PROPER ABATEMENT NOTIFICATION TO BE POSTED IN VISIBLE AREAS OF AREA OF WORK.
- AREA OF REMOVAL TO BE FULLY TENTED AND UNDER NEGATIVE PRESSURE BY MEANS OF EXHAUST FAN COMPLETE WITH HEPA FILTER.

<https://ehs.utoronto.ca/our-services/occupational-hygiene-safety/asbestos-management-program/>

SEPARATE PRICES:

FOR ALL SEPARATE PRICES REFER TO SCHEDULE-D.

01	2025-05-01	ISSUED FOR TENDER	NF
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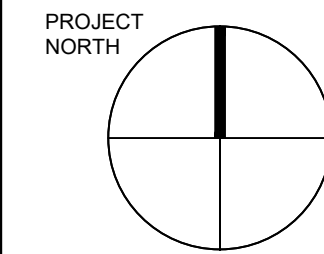
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PROJECT #:
DCM2024-09

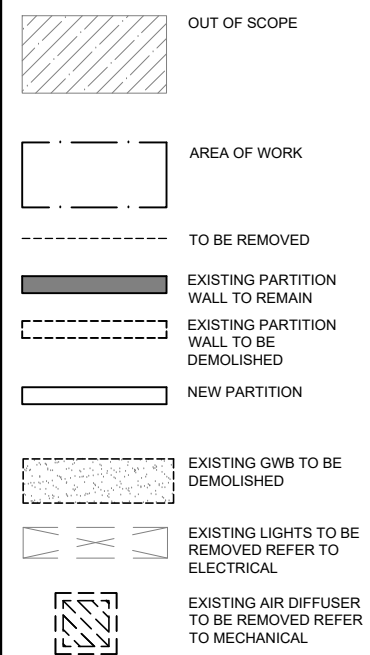
PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY:
NF
CHECKED BY:
-
DRAWING TITLE:
EXISTING FLOOR PLANS

DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO:
A1.1



LEGEND:



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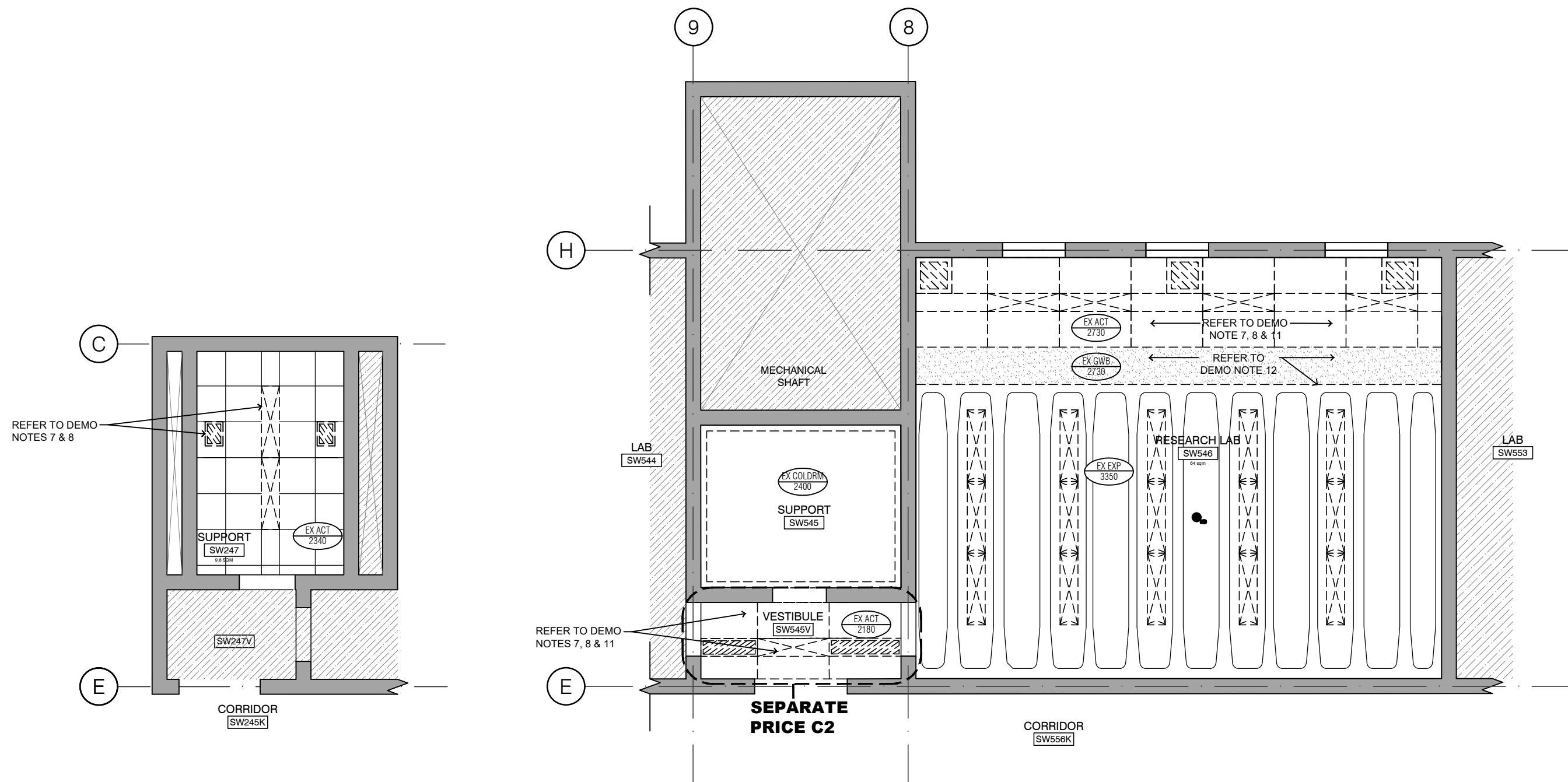
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**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

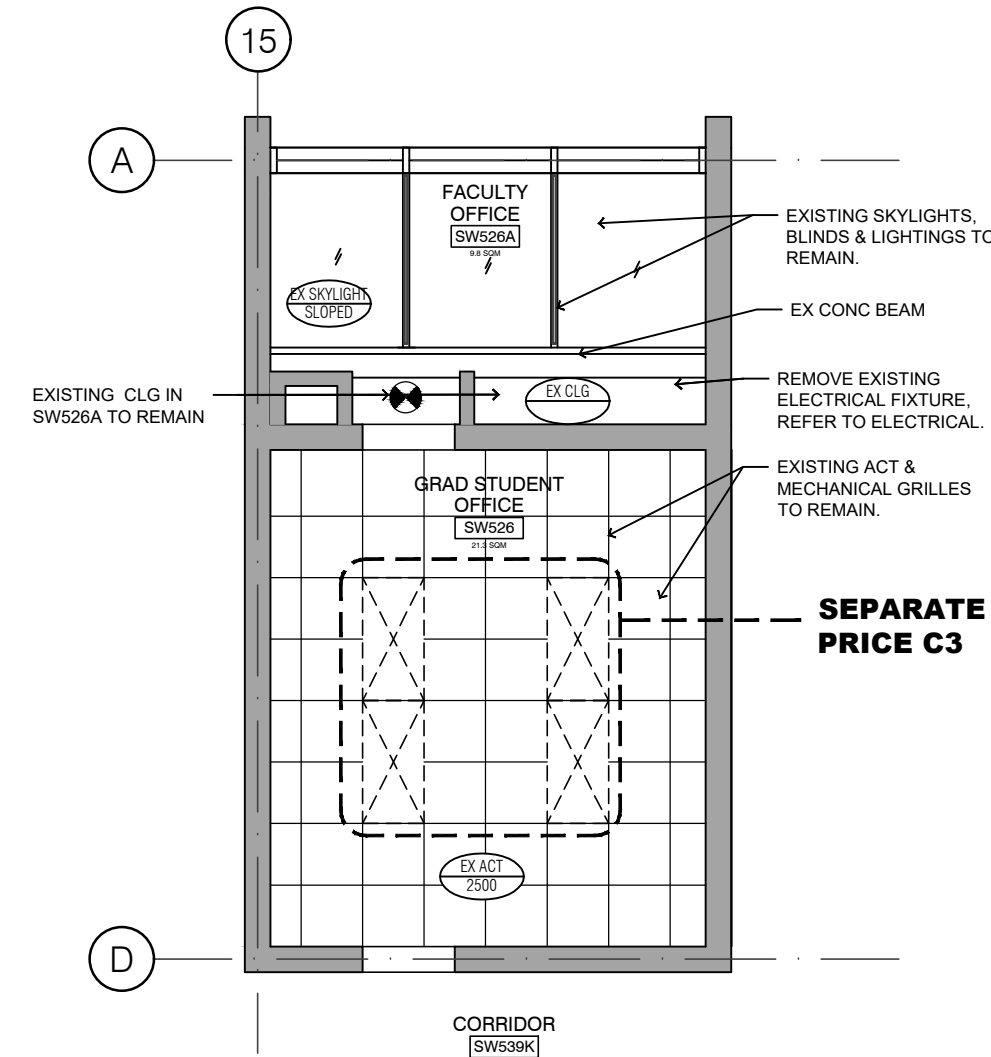
HUMANITIES WING, 1265 MILITARY TRAIL
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NF
CHECKED BY:
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DRAWING TITLE:
**EXISTING REFLECTED CEILING
PLANS**

DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO:
A1.2



01 **SW247 EXISTING RCP**
A1.2 1:75

FOR SEPARATE PRICE C1, REFER TO 04/A1.2



03 **SW526 & SW526A EXISTING RCP**
A1.2 1:75

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- THE DRAWINGS ARE NOT STANDALONE AND ARE TO BE READ IN CONJUNCTION WITH THE COMPLETE SET OF CONTRACT DOCUMENTS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING (PROVINCIAL & MUNICIPAL) AUTHORITIES.
- EXISTING CONSTRUCTION SHOWN HAS BEEN TAKEN FROM AVAILABLE INFORMATION, WHEN SPECIFIC DETAILS ARE UNAVAILABLE, ASSUMPTIONS HAVE BEEN MADE REGARDING PROBABLE CONSTRUCTION. ANY VARIANCE FROM CONSTRUCTION AS SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO ATTENTION OF UTSC PM.
- FILL ALL EXISTING HOLES LEFT FROM MECHANICAL AND ELECTRICAL SERVICES REMOVED OR RELOCATED TO MAINTAIN REQUIRED FIRE SEPARATIONS.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED BY CONSTRUCTION TO MATCH EXISTING ADJACENT.
- CLEAN UP DEBRIS ON A DAILY BASIS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY OFFSITE ON A REGULAR BASIS. BUILDING PREMISES ARE TO BE THOROUGHLY CLEANED PRIOR TO TAKEOVER BY THE OWNER.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND TIDY MANNER.
- ADEQUATELY PROTECT THE WORK AT ALL STAGES OF CONSTRUCTION AND MAINTAIN THE PROTECTION UNTIL WORK IS COMPLETED. REMOVE AND REPLACE AT NO EXPENSE TO THE OWNER ANY DAMAGED WORK AND MATERIALS THAT CANNOT BE REPAIRED OR RESTORED TO OWNER'S SATISFACTION.
- CONTRACTOR TO INCLUDE FOR REMOVAL, TEMPORARY STORAGE ON SITE OR HANDING OVER TO OWNER AS DETERMINED BY OWNER AND REINSTALLATION WHERE NOTED OF EXISTING EQUIPMENT, LIGHT FIXTURES, DOORS, HARDWARE, ETC. THAT ARE REQUIRED TO BE REMOVED, RELOCATED AND/OR REINSTALLED TO COMPLETE THE WORKS. ALL REMOVED MATERIALS REQUIRED TO BE REINSTALLED SHALL BE REINSTALLED IN UN DAMAGED CONDITION.

DEMOLITION DRAWING NOTES:

- THE UTSC DEMOLITION DRAWINGS ARE TO BE READ WITH THE MECHANICAL, ELECTRICAL DEMOLITION DRAWINGS AND SPECIFICATIONS.
- THE DIMENSIONS SHOWN IN THIS DRAWING ARE FROM EXISTING ELEMENTS, SUCH AS THE FINISHED FACE OF WALLS AND CEILINGS TO THE FACE OF NEW WORK.
- IN AREAS OF RENOVATION, REMOVE ALL ITEMS THAT HAVE BECOME OBSOLETE OR DORMANT OR ARE NO LONGER NEEDED OR CONNECTED TO NEW WORK.
- BEFORE THE RENOVATION, CONSULT WITH UTSC PROJECT MANAGER AS TO WHICH ITEMS ARE TO BE REMOVED, REFURBISHED AND/OR STORED FOR REUSE.
- IN SITUATIONS WHERE THE EXISTING CONFIGURATION DIFFERS FROM THE DRAWINGS, CONSULT WITH THE UTSC PM BEFORE DEMOLITION.
- CAREFULLY REMOVE RED BLOCK ABOVE NEW CEILING LEVEL TO ALLOW FOR MECHANICAL ROUTING WHERE REQUIRED IN MECHANICAL SHAFT. CONTRACTOR TO COORDINATE REMOVING AS FEW AS REQUIRED. COORDINATE WITH MECHANICAL DRAWINGS.

- CONTRACTOR TO COORDINATE CAREFUL REMOVAL OF ELECTRICAL, AUDIO VISUAL AND COMMUNICATION FIXTURES AND STORE FOR REUSE OR RETURN TO UTSC WHERE REQUIRED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO COORDINATE CAREFUL REMOVAL OF MECHANICAL FIXTURES AND STORE FOR REUSE OR RETURN TO UTSC WHERE REQUIRED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- COORDINATE DEMOLITION OF CONCRETE FOR NEW OPENINGS WITH MECHANICAL AND ELECTRICAL DRAWINGS. PRIOR TO CUTTING OR CORING ANY CONCRETE SLAB, SUSPENDED OR ON GRADE, OR ANY CONCRETE BEAM, INVESTIGATE BY TELEMETRICALLY SCANNING THE ELEMENT FOR PRESENCE OF EMBEDDED SERVICES (PIPING, CABLING, CONDUIT, ETC.) AND FOR LOCATIONS OF REINFORCING STEEL IN SUSPENDED CONCRETE SLABS AND BEAMS. COORDINATE LOCATIONS WITH UTSC PM.

DEMOLITION & ABATEMENT – AS PART OF CASH ALLOWANCE A3

IT IS REQUESTED THAT THE SUCCESSFUL PROPONENT CARRY A CASH ALLOWANCE NOTED IN THE RFP DOCUMENT, SCHEDULE D – PRICE FORM, FOR ALL DEMOLITION AND ABATEMENT WORK IN SW247, SW526, SW526A, SW545, AND SW546. REFER TO WSP PRE-RENOVATION HAZARDOUS MATERIALS ASSESSMENT REPORT, DATED APRIL 28, 2025 AND ABATEMENT NOTES.

- REMEDiate ALL ITEMS OUTLINED IN WSP PRE-RENOVATION HAZARDOUS MATERIALS ASSESSMENT REPORT DATED APRIL 28, 2025, AND REFER TO ABATEMENT NOTES.
- REMOVE AND DISPOSE OF ACT AND T-BAR GRID, CEILING TILES AND ALL ASSOCIATED FRAMING.
- REMOVE AND DISPOSE OF GWB CEILING AND ALL ASSOCIATED FRAMING.

ABATEMENT NOTES:

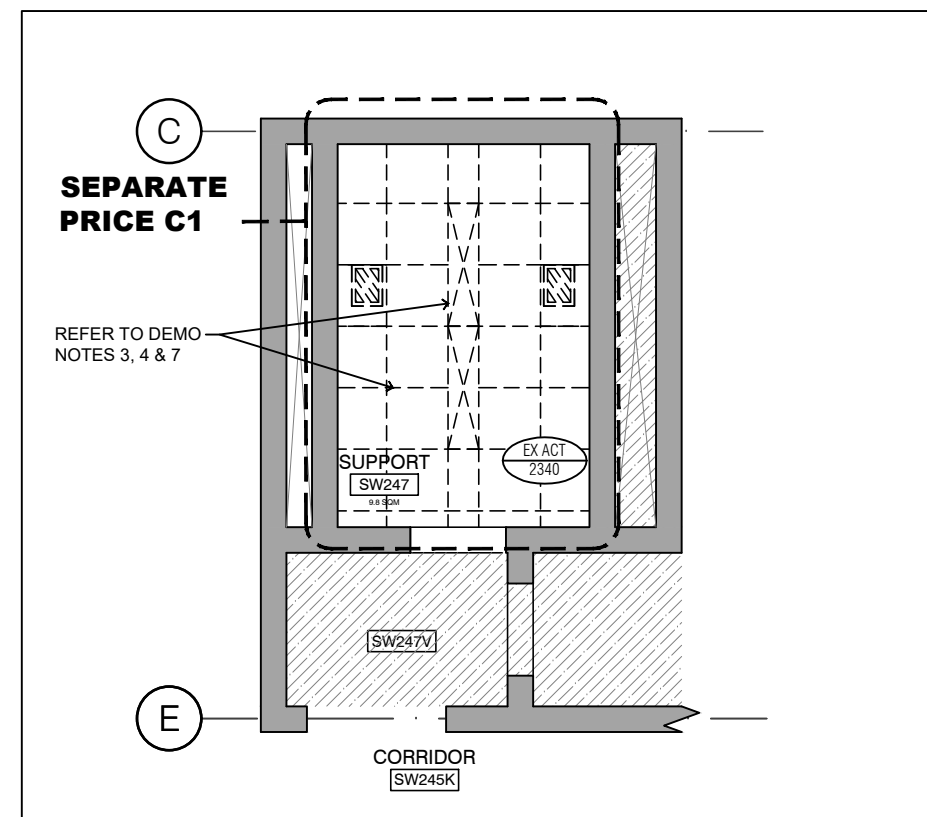
- ALL MATERIALS WITHIN SCOPE OF WORK THAT ARE IDENTIFIED AS ASBESTOS CONTAINING MATERIAL (ACM) ARE TO BE REMOVED.
- REMOVAL OF ACM TO BE CARRIED OUT IN CONFORMANCE WITH THE MINISTRY OF LABOUR'S PROCEDURES AS DESCRIBED IN THE ONTARIO REGULATION 278/05 DESIGNATED SUBSTANCE —ASBESTOS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS, SERVING AS PART OF THE OCCUPATIONAL HEALTH & SAFETY ACT & UNIVERSITY OF TORONTO PROCEDURES.
- ABATEMENT CONTRACTOR TO ENSURE ALL REMOVAL PROCEDURES ARE ADHERED TO INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - THE GENERAL CONTRACTOR AND ABATEMENT CONTRACTOR ARE REQUIRED TO MEET WITH UNIVERSITY OF TORONTO PROJECT MANAGER AND ENVIRONMENTAL HEALTH & SAFETY OFFICER A MINIMUM OF 5 DAYS IN ADVANCE OF WORK TO OCCUR FOR A PRE-ABATEMENT SITE MEETING TO COORDINATE SITE SPECIFIC ABATEMENT CONTAINMENT STRATEGIES AND PROCEDURE.
 - GENERAL CONTRACTOR AND ABATEMENT SUBCONTRACTOR TO COORDINATE HVAC SHUT DOWN WITH UNIVERSITY OF TORONTO, DESIGN & CONSTRUCTION MANAGEMENT PROJECT MANAGER A MINIMUM 5 DAYS IN ADVANCE OF WORK TO OCCUR.
 - ABATEMENT WORK MUST BE COMPLETED AFTER HOURS BETWEEN 10:00 PM AND 6:00 AM. PREPARATION CAN OCCUR DURING REGULAR WORKING HOURS.
 - PROPER ABATEMENT NOTIFICATION TO BE POSTED IN VISIBLE AREAS OF AREA OF WORK.

- AREA OF REMOVAL TO BE FULLY TENTED AND UNDER NEGATIVE PRESSURE BY MEANS OF EXHAUST FAN COMPLETE WITH HEPA FILTER.
- REFER TO WSP PRE-RENOVATION HAZARDOUS MATERIALS ASSESSMENT REPORT DATED APRIL 28, 2025, INCLUDED AS AN APPENDIX IN THE INVITATION TO QUOTE DOCUMENTS, AND

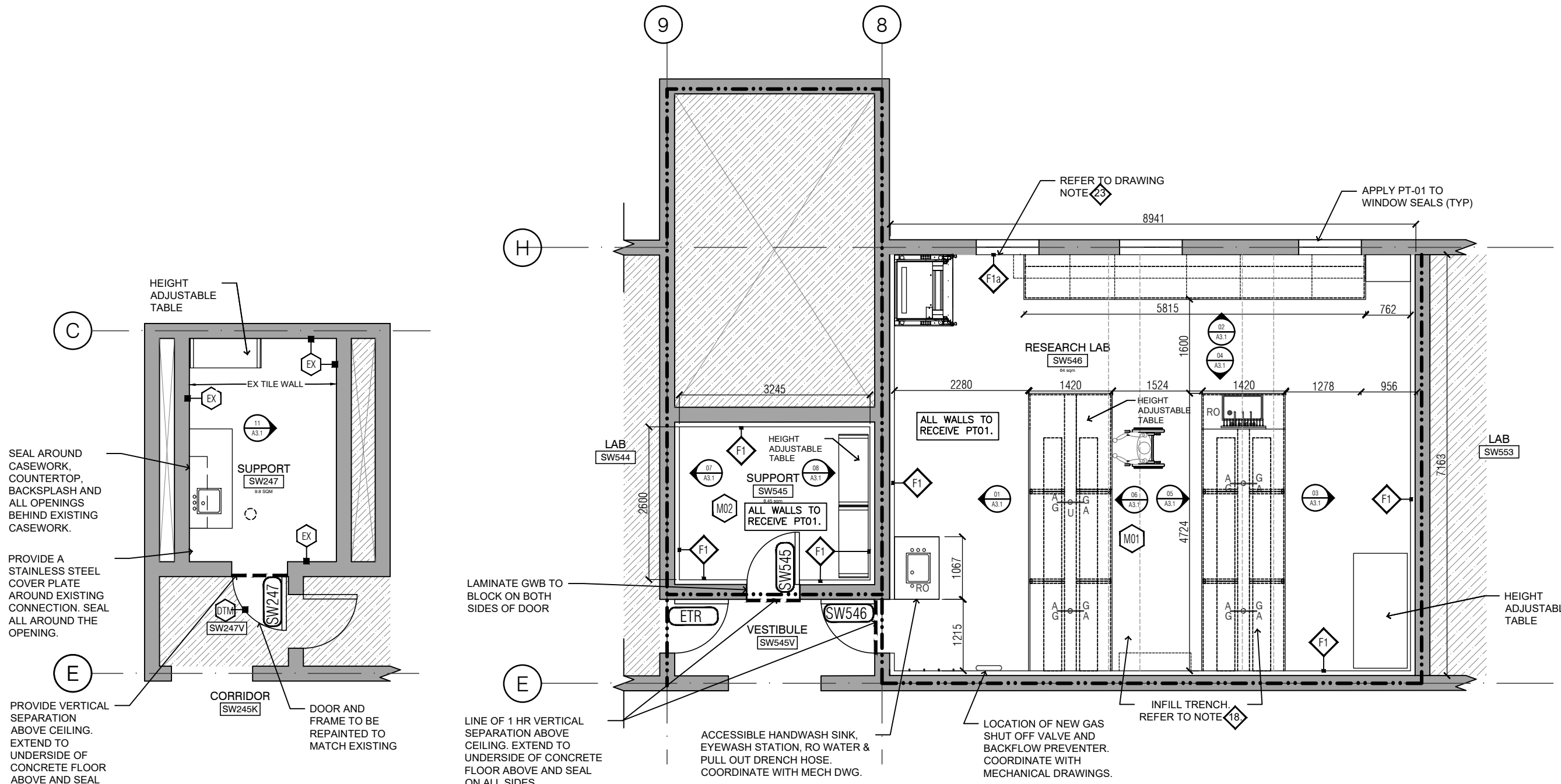
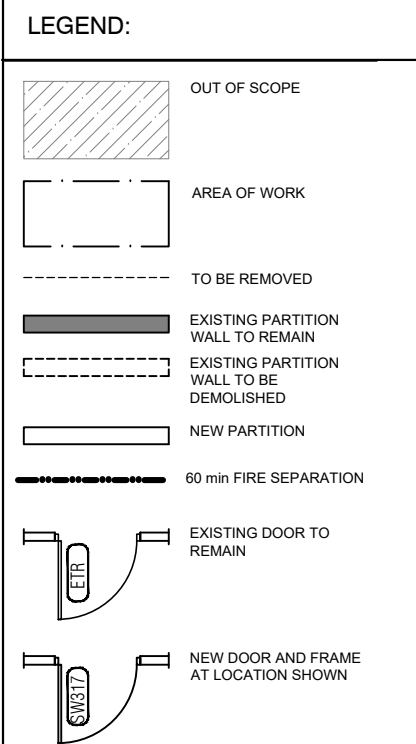
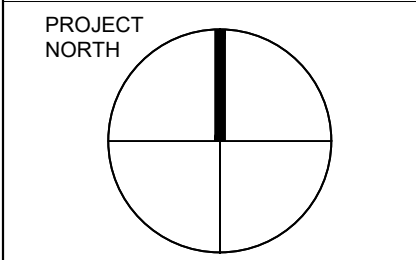
<https://ehs.utoronto.ca/our-services/occupational-hygiene-safety/asbestos-management-program/>

SEPARATE PRICES:

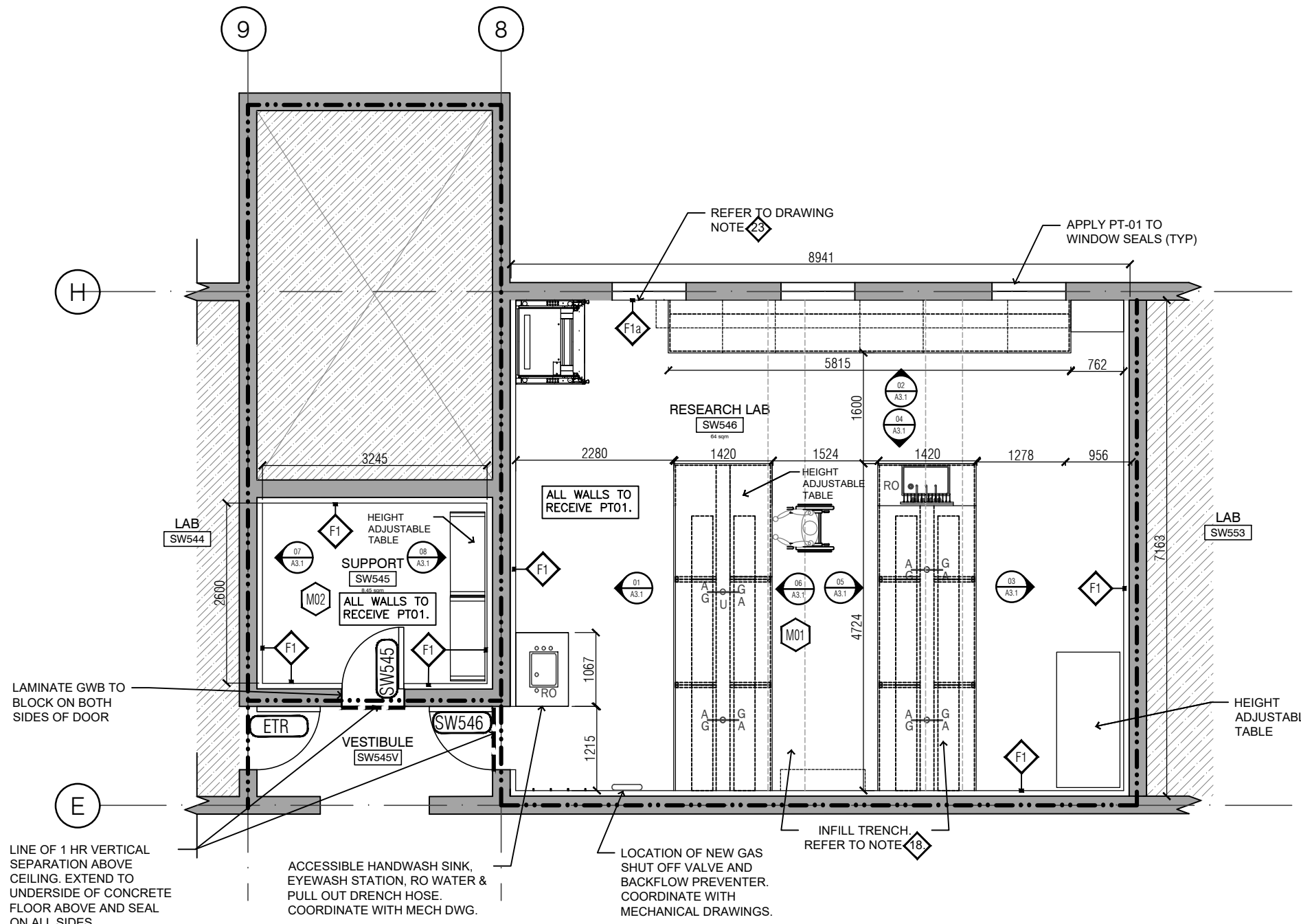
FOR ALL SEPARATE PRICES REFER TO SCHEDULE-D.



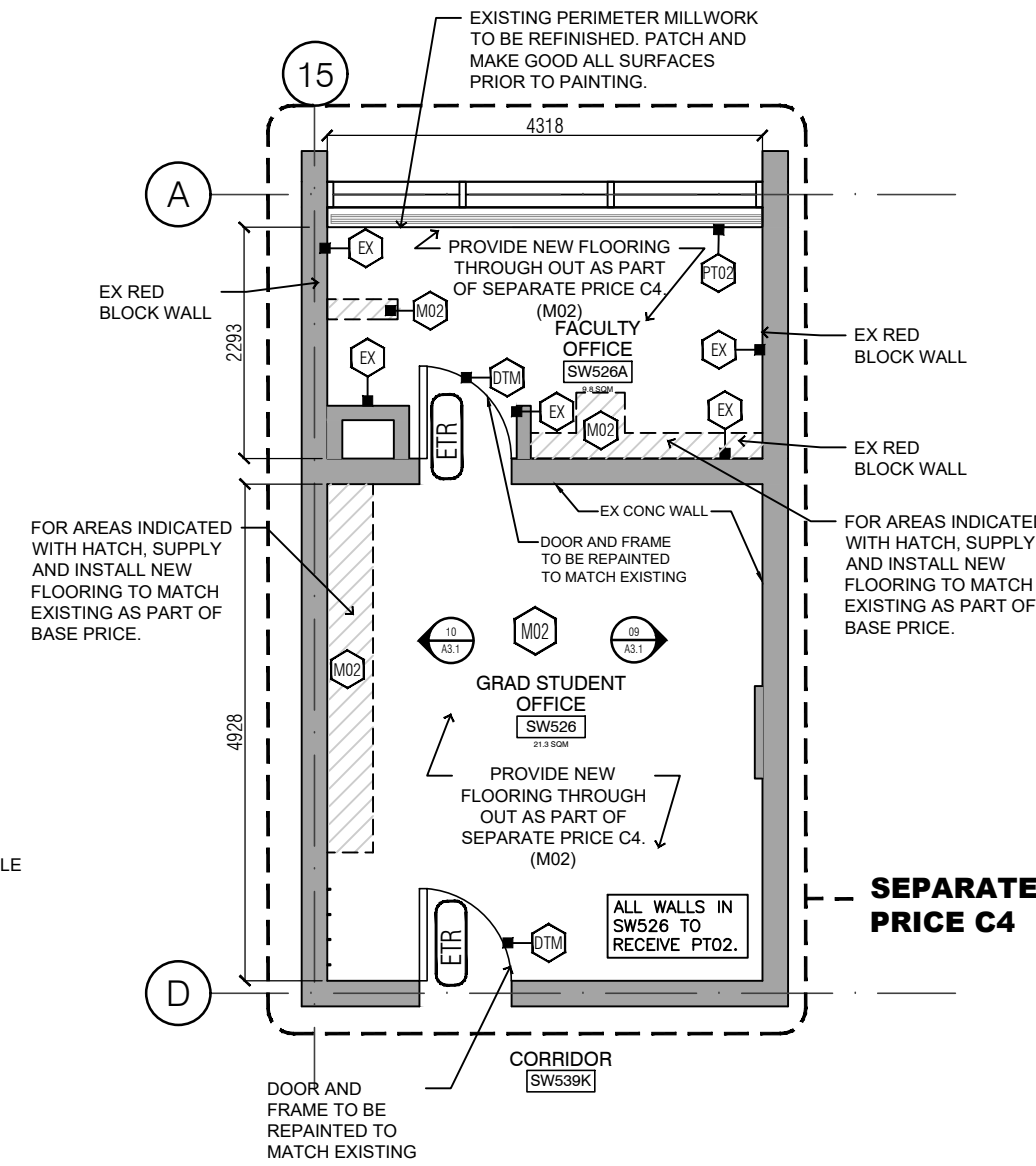
04 **SW247 EXISTING RCP**
A1.2 1:75 - SEPARATE PRICE C1



01
A2.1 1:75
SW247 PROPOSED FLOOR PLAN



02
A2.1 1:75
SW545 & SW546 PROPOSED FLOOR PLAN



03
A2.1 1:75
SW526 & SW526A PROPOSED FLOOR PLAN

GENERAL NOTES APPLY TO ALL DRAWINGS:

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- FILL ALL EXISTING HOLES LEFT FROM MECHANICAL AND ELECTRICAL SERVICES REMOVED OR RELOCATED TO MAINTAIN REQUIRED FIRE SEPARATIONS.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED IN PROCESS OF DEMOLITION OR REMOVED BY CONSTRUCTION TO MATCH EXISTING ADJACENT.
- CLEAN UP DEBRIS ON A DAILY BASIS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY OFFSITE ON A REGULAR BASIS. BUILDING PREMISES ARE TO BE THOROUGHLY CLEANED PRIOR TO TAKEOVER BY THE OWNER.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND TIDY MANNER.
- ADEQUATELY PROTECT THE WORK AT ALL STAGES OF CONSTRUCTION AND MAINTAIN THE PROTECTION UNTIL WORK IS COMPLETED. REMOVE AND REPLACE AT NO EXPENSE TO THE OWNER ANY DAMAGED WORK AND MATERIALS THAT CANNOT BE REPAIRED OR RESTORED TO OWNER'S SATISFACTION.
- CONTRACTOR TO INCLUDE FOR REMOVAL, TEMPORARY STORAGE ON SITE OR HANDING OVER TO OWNER AS DETERMINED BY OWNER AND REINSTALLATION WHERE NOTED OF EXISTING EQUIPMENT, LIGHT FIXTURES, DOORS, HARDWARE, ETC. THAT ARE REQUIRED TO BE REMOVED, RELOCATED AND/OR REINSTALLED TO COMPLETE THE WORKS. ALL REMOVED MATERIALS REQUIRED TO BE REINSTALLED SHALL BE REINSTALLED IN UN DAMAGED CONDITION.
- SUPPLY AND INSTALL FIRESTOPPING MATERIAL TO MAINTAIN EXISTING FIRE SEPARATIONS AT ALL ELECTRICAL AND MECHANICAL SERVICE PENETRATIONS. PROVIDE MATERIAL SUBMITTAL.

DRAWING NOTES:

- COORDINATE NEW CONCRETE OPENINGS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. PRIOR TO CUTTING OR CORING ANY CONCRETE SLAB, SUSPENDED OR ON GRADE, OR ANY CONCRETE BEAM, INVESTIGATE BY TELEMETRICALLY SCANNING THE ELEMENT FOR PRESENCE OF EMBEDDED SERVICES (PIPING, CABLING, CONDUIT, ETC.) AND FOR LOCATIONS OF REINFORCING STEEL IN SUSPENDED CONCRETE SLABS AND BEAMS. COORDINATE LOCATIONS WITH UTSC PM.
- SUPPLY AND INSTALL NEW PARTITION TYPES AS PER PARTITION SCHEDULE DETAIL 02 ON A2.4. FIRE

RATED PARTITIONS ARE TO BE COMPLETE WITH HILT CFS-BL FIRESTOP. BLOCK AROUND PENETRATING SERVICES. COORDINATE INSTALL OF WITH NEW AND EXISTING MECHANICAL, ELECTRICAL AND FFE.

- SUPPLY AND INSTALL FIRE STOPPING MATERIAL BY HILTI WITH PAINTABLE FINISH IN ANY OR ALL EXISTING PENETRATIONS OVER 6" Ø OR 6X6 THROUGH FIRE RATED ASSEMBLIES. FIRE STOP ALL CONCEALED SPACES BETWEEN STORIES AT FLOORS .
- PROVIDE NEW FINISHES AS PER PROPOSED FLOOR PLAN AND FINISH SCHEDULE. TRADES TO COORDINATE INSTALLATION OF CAULKING ON MATERIAL TRANSITIONS AND ALL LOCATIONS WHERE MATERIAL CHANGES FROM HORIZONTAL TO VERTICAL DIRECTION.
- PROVIDE ADEQUATE SUPPORTS FOR WALL MOUNTED CABINETS, EQUIPMENTS, SHELVES, WHITE BOARDS , COAT HOOKS, ETC. REFER TO FF&E PLAN ON A2.3.
- SUPPLY AND INSTALL DOORS, FRAMES AND HARDWARE. REFER TO DOOR SCHEDULE AND DOOR HARDWARE SCHEDULE. SUBMIT SHOP DRAWINGS FOR ALL DOORS, FRAMES AND HARDWARE.
- SUPPLY AND INSTALL SHEET FLOOR AND WALL BASE. REFER TO PROPOSED FINISH SCHEDULE DETAIL 03 ON A2.4.
- ALL METAL CASEWORK AND SHELVING AS PER CASH ALLOWANCE A2 TO BE PURCHASED AND INSTALLED BY CONTRACTOR. CONTRACTOR RESPONSIBLE FOR RECEIVING AT UTSC LOADING DOCK, CARRYING AND INSTALL.
- SUPPLY AND INSTALL NEW EPOXY COUNTERTOP AND 4" RETURN IN SW546. REFER TO CASH ALLOWANCE A2.
- SUPPLY AND INSTALL NEW MECHANICAL SERVICES, FIXTURES AND FAUCETS AS INDICATED IN MECHANICAL DRAWINGS.
- SUPPLY AND INSTALL NEW ELECTRICAL OUTLETS AS INDICATED IN ELECTRICAL DRAWINGS.
- INSTALL SEALANT AT ALL JOINTS INCLUDING THE PERIMETER OF DOOR AND WINDOW FRAMES. ALL SEAMS AND JOINTS TO BE CAULKED.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED BY CONSTRUCTION TO MATCH ADJACENT.
- PROVIDE NEW CONTINUOUS RUBBER BASE AROUND CASEWORK BASE AND WALLS AS INDICATED ON ROOM FINISH SCHEDULE.
- PROVIDE CONTINUOUS SEALANT AROUND ALL EXISTING AND NEW SERVICES PENETRATIONS. PROVIDE CONTINUOUS SEALANT AT ALL COUNTERTOP SEAMS, VERTICAL AND HORIZONTAL TRANSITIONS. BUTT JOINTS, SURFACE PENETRATIONS, ELECTRICAL AND MECHANICAL SERVICES.

- DO NOT FUR OUT ANY EXISTING RED BLOCK WALLS.
- PAINT ALL WALLS, CEILINGS AND ANY EXPOSED ELEMENTS ACCORDING TO FINISH SCHEDULE. ALL EXPOSED MECHANICAL ELEMENTS TO RECEIVE SAME FINISH AS THE CEILING.
- SUPPLY AND INSTALL NEW TRENCH SUPPORT ALONG ACCESSIBLE TRENCH WHERE MECHANICAL DEMOLITION OCCURS. REFER TO DETAIL 05 ON A3.2.
- FOR FIRE RATED PARTITIONS, SEAL PARTITIONS AT TOP, BOTTOM, SIDE AND ALL OPENINGS & PENETRATIONS WITH FIRE RATED SEALANT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED FOR PENETRATIONS FIRE SYSTEM AND FIRE RESISTIVE JOINTS SYSTEM.
- REPLACE BATT INSULATION IN EXISTING PENETRATIONS WITH LISTED FIRE STOPPING MATERIAL WHICH BEARS LABEL OF C.S.A AND U.L.C. WITH PINTABLES FINISH AND MAINTAIN SAME FIRE RATING AS THAT OF BUILDING COMPONENT PENETRATED.
- GENERAL CONTRACTOR TO SUPPLY AND INSTALL ALL EQUIPMENT AND FURNISHINGS WHERE APPLICABLE ON PROPOSED FF&E SCHEDULE, DETAIL 04 ON DRAWING A2.3. PROVIDE ADEQUATE BLOCKING FOR EQUIPMENT WHERE REQUIRED. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
- SUPPLY AND INSTALL [8] COAT HOOKS IN SW546 AND [4] COAT HOOKS IN SW526. COORDINATE LOCATIONS WITH UTSC PM. REFER TO EQUIPMENT SCHEDULE DETAIL 04 ON A2.3.
- INSTALL DRYWALL WALL AT ALL OPENINGS RESULTING FROM DEMOLITION OF RACEWAY, WINDOW WOOD SEALS AND AT EXPOSED CONCRETE WALL LOCATIONS. EXTEND DRYWALL TO FLOOR. SITE VERIFY ALL LOCATIONS.

SEPARATE PRICES:

FOR ALL SEPARATE PRICES REFER TO SCHEDULE-D.

CASH ALLOWANCE A2: CASEWORK

IT IS REQUESTED FROM THE SUCCESSFUL PROPONENT TO CARRY A CASH ALLOWANCE DETAILED IN SCHEDULE-D – PRICE FORM, FOR THE SUPPLY AND INSTALLATION OF METAL CASEWORK, SHELVING AND EPOXY BENCHTOPS IN SW247, SW545 & SW546.

Notes:
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UNIVERSITY OF TORONTO
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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #:
DCM2024-09

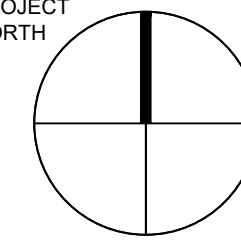
PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: NF CHECKED BY: -

DRAWING TITLE:
PROPOSED FLOOR PLANS

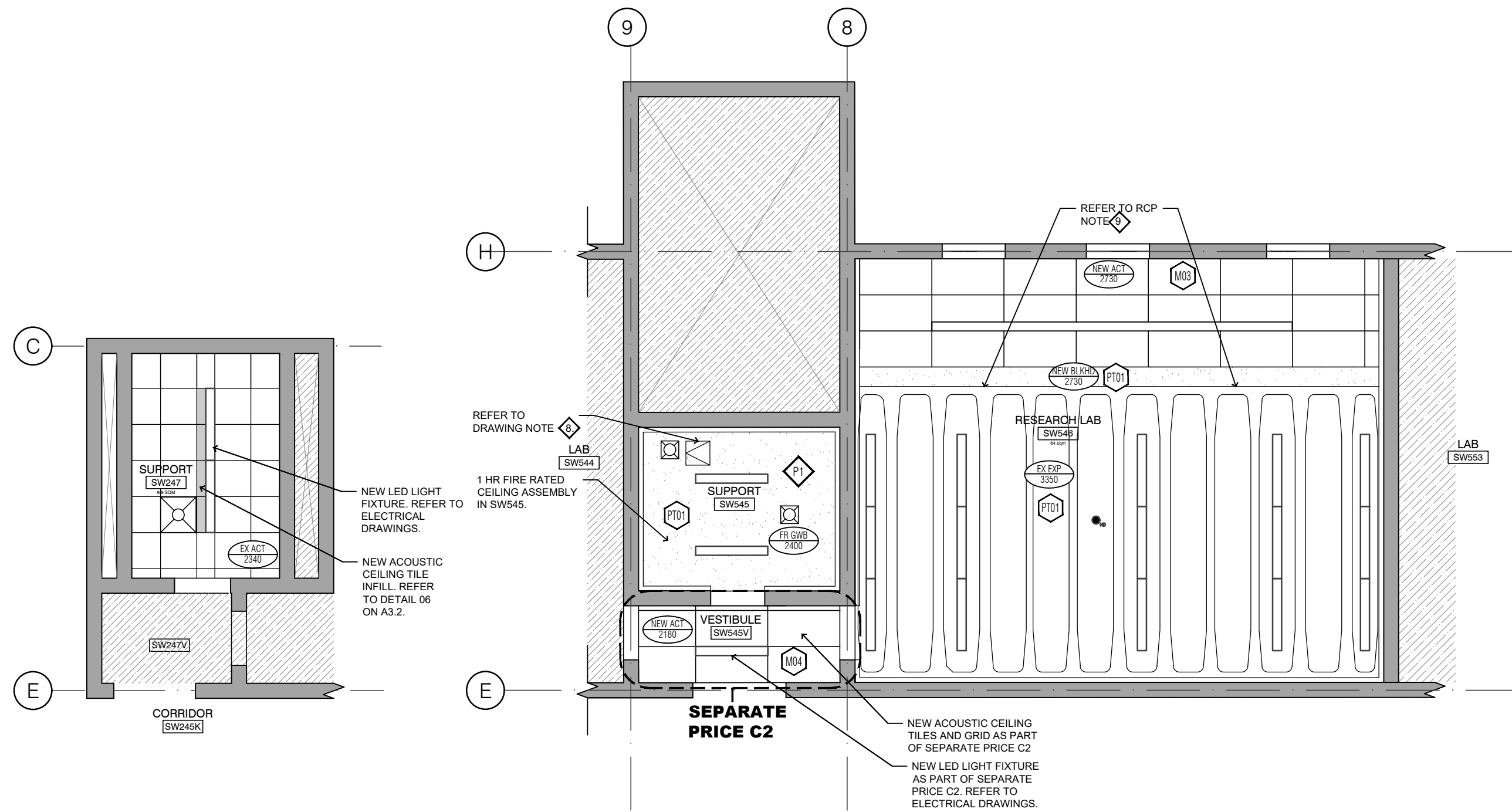
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NORTH



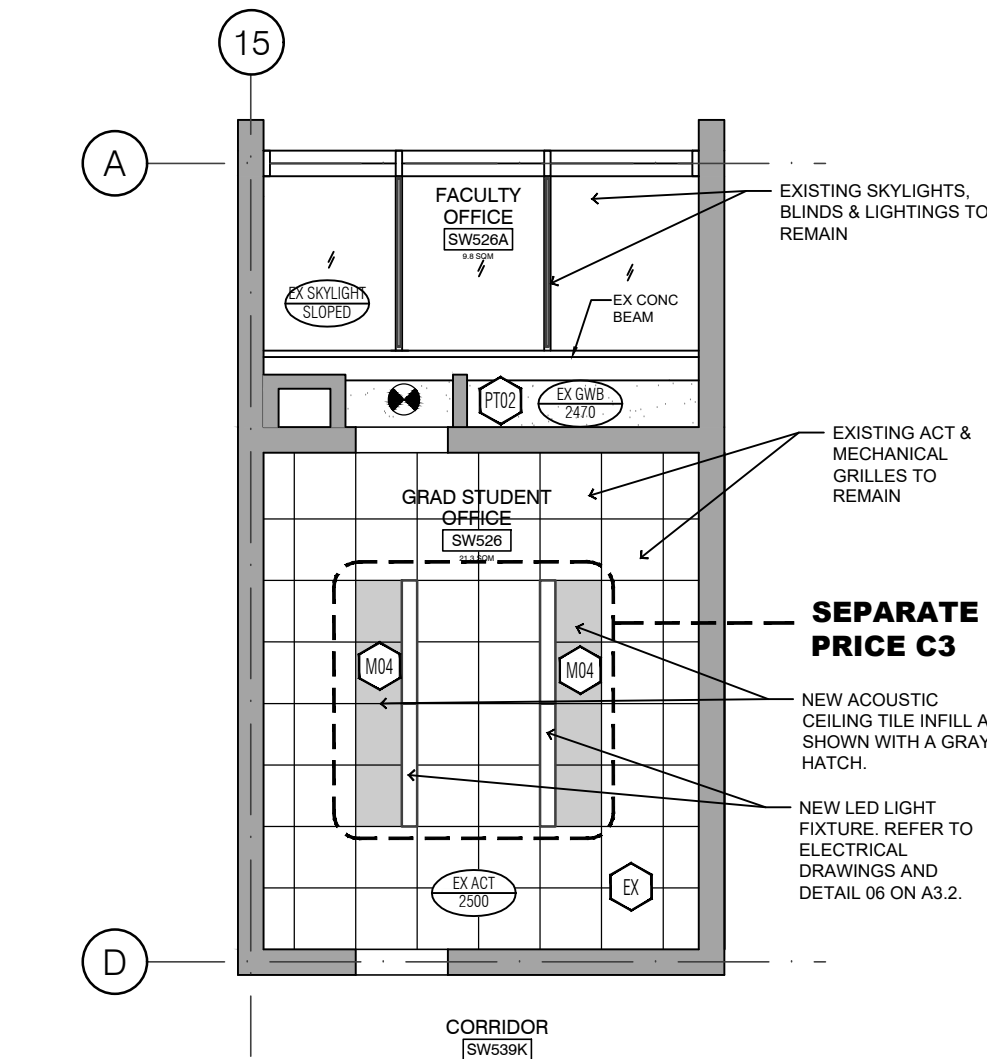
LEGEND:

- OUT OF SCOPE
- AREA OF WORK
- TO BE REMOVED
- NEW GWB
- NEW MECHANICAL, DIFFUSERS AND GRILLES. REFER TO MECHANICAL
- NEW ELECTRICAL DEVICES AND FIXTURES. REFER TO ELECTRICAL



01
A2.2 1:75
SW247 PROPOSED RCP

FOR SEPARATE PRICE C1, REFER TO 04/A1.2



03
A2.2 1:75
SW526 & SW526A PROPOSED RCP

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- FILL ALL EXISTING HOLES LEFT FROM MECHANICAL AND ELECTRICAL SERVICES REMOVED OR RELOCATED TO MAINTAIN REQUIRED FIRE SEPARATIONS.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED IN PROCESS OF DEMOLITION OR REMOVED BY CONSTRUCTION TO MATCH EXISTING ADJACENT.
- CLEAN UP DEBRIS ON A DAILY BASIS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY OFFSITE ON A REGULAR BASIS. BUILDING PREMISES ARE TO BE THOROUGHLY CLEANED PRIOR TO TAKEOVER BY THE OWNER.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND TIDY MANNER.
- ADEQUATELY PROTECT THE WORK AT ALL STAGES OF CONSTRUCTION AND MAINTAIN THE PROTECTION UNTIL WORK IS COMPLETED, REMOVE AND REPLACE AT NO EXPENSE TO THE OWNER ANY DAMAGED WORK AND MATERIALS THAT CANNOT BE REPAIRED OR RESTORED TO OWNER'S SATISFACTION.
- CONTRACTOR TO INCLUDE FOR REMOVAL, TEMPORARY STORAGE ON SITE OR HANDING OVER TO OWNER AS DETERMINED BY OWNER AND REINSTALLATION WHERE NOTED OF EXISTING EQUIPMENT, LIGHT FIXTURES, DOORS, HARDWARE, ETC. THAT ARE REQUIRED TO BE REMOVED, RELOCATED AND/OR REINSTALLED TO COMPLETE THE WORKS. ALL REMOVED MATERIALS REQUIRED TO BE REINSTALLED SHALL BE REINSTALLED IN UN DAMAGED CONDITION.
- SUPPLY AND INSTALL FIRESTOPPING MATERIAL TO MAINTAIN EXISTING FIRE SEPARATIONS AT ALL ELECTRICAL AND MECHANICAL SERVICE PENETRATIONS. PROVIDE MATERIAL SUBMITTAL.

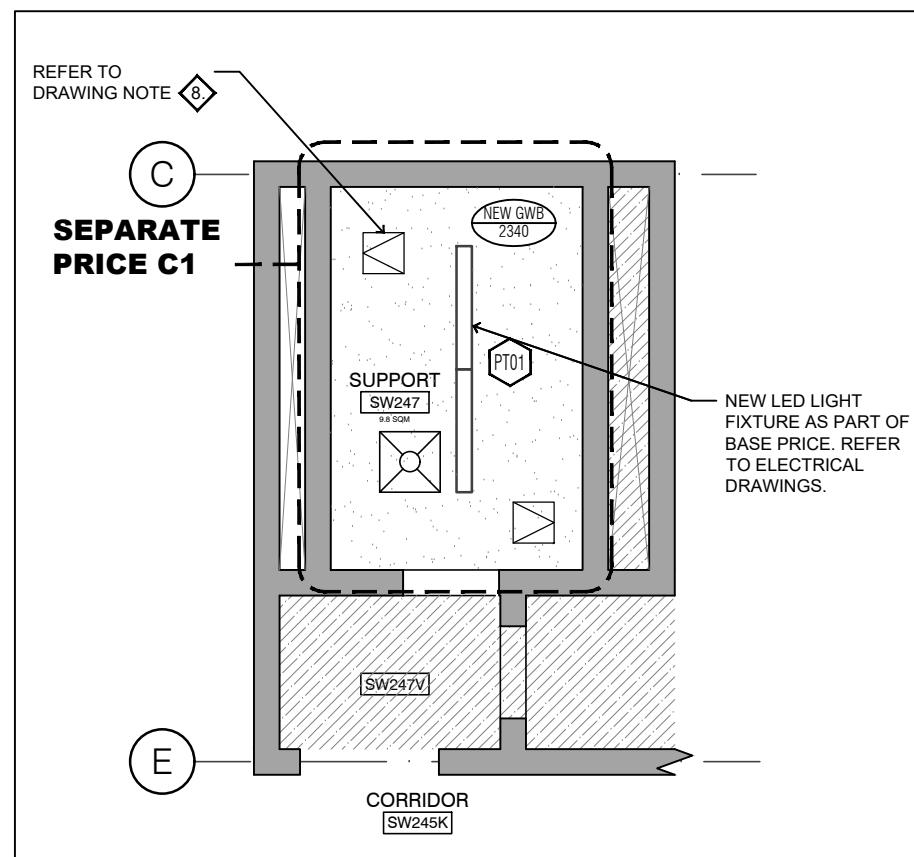
DRAWING NOTES:

- PRIOR TO CUTTING OR CORING ANY CONCRETE SLAB, SUSPENDED OR ON GRADE, OR ANY CONCRETE BEAM, INVESTIGATE BY TELEMETRICALLY SCANNING THE ELEMENT FOR PRESENCE OF EMBEDDED SERVICES (PIPING, CABLING, CONDUIT, ETC.) AND FOR LOCATIONS OF REINFORCING STEEL IN SUSPENDED CONCRETE SLABS AND BEAMS. COORDINATE LOCATIONS WITH UTSC PM.
- PROVIDE NEW FINISHES AS NOTED. REFER TO PROPOSED FINISH SCHEDULE DETAIL 03 ON A2.4.
- TRADES TO COORDINATE INSTALLATION OF CAULKING ON MATERIAL TRANSITIONS AND ALL LOCATIONS WHERE MATERIAL CHANGES FROM HORIZONTAL TO VERTICAL DIRECTION.
- MECHANICAL UNITS, DUCT AND ELECTRICAL DEVICES ARE SHOWN FOR INFORMATION ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AS REQUIRED.

- ALL STRUCTURAL, MECHANICAL & ELECTRICAL ELEMENTS EXPOSED TO VIEW IN CEILING INCLUDING DECK, BEAM, DUCT WORK, CONDUITS, ETC. TO BE PAINTED UNLESS NOTED OTHERWISE. COLOR TBD.
- SUPPLY AND INSTALL FIRE STOPPING MATERIAL BY HILTI WITH PAINTABLE FINISH IN ANY OR ALL EXISTING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- PATCH AND REPAIR GWB AS A RESULT OF NEW LIGHT FIXTURES AND MECHANICAL ACCESS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- SUPPLY AND INSTALL [1] 1 HR FIRE-RATED METAL ACCESS HATCH IN GWB CEILING IN SW545 AS PART OF BASE PRICE AND [2] METAL ACCESS HATCHES IN SW247 AS PART OF SEPARATE PRICE C1. REFER TO MECHANICAL FOR REQUIRED OPENING SIZE.
- INFILL QUANTITY [3] EXISTING MECHANICAL OPENINGS AT CEILING IN SW546 WITH TYPE X GYPSUM BOARD. PROVIDE WIRE MESH, PATCH, CAULK ALL SEAMS AND PAINT TO MATCH EXISTING CEILING COLOR. COORDINATE LOCATIONS ON SITE.

SEPARATE PRICES:

FOR ALL SEPARATE PRICES REFER TO SCHEDULE-D.



04
A2.2 1:75 - SEPARATE PRICE C1
SW247 PROPOSED RCP

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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #:
DCM2024-09

PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

HUMANITIES WING, 1265 MILITARY TRAIL

DRAWN BY: NF CHECKED BY: -

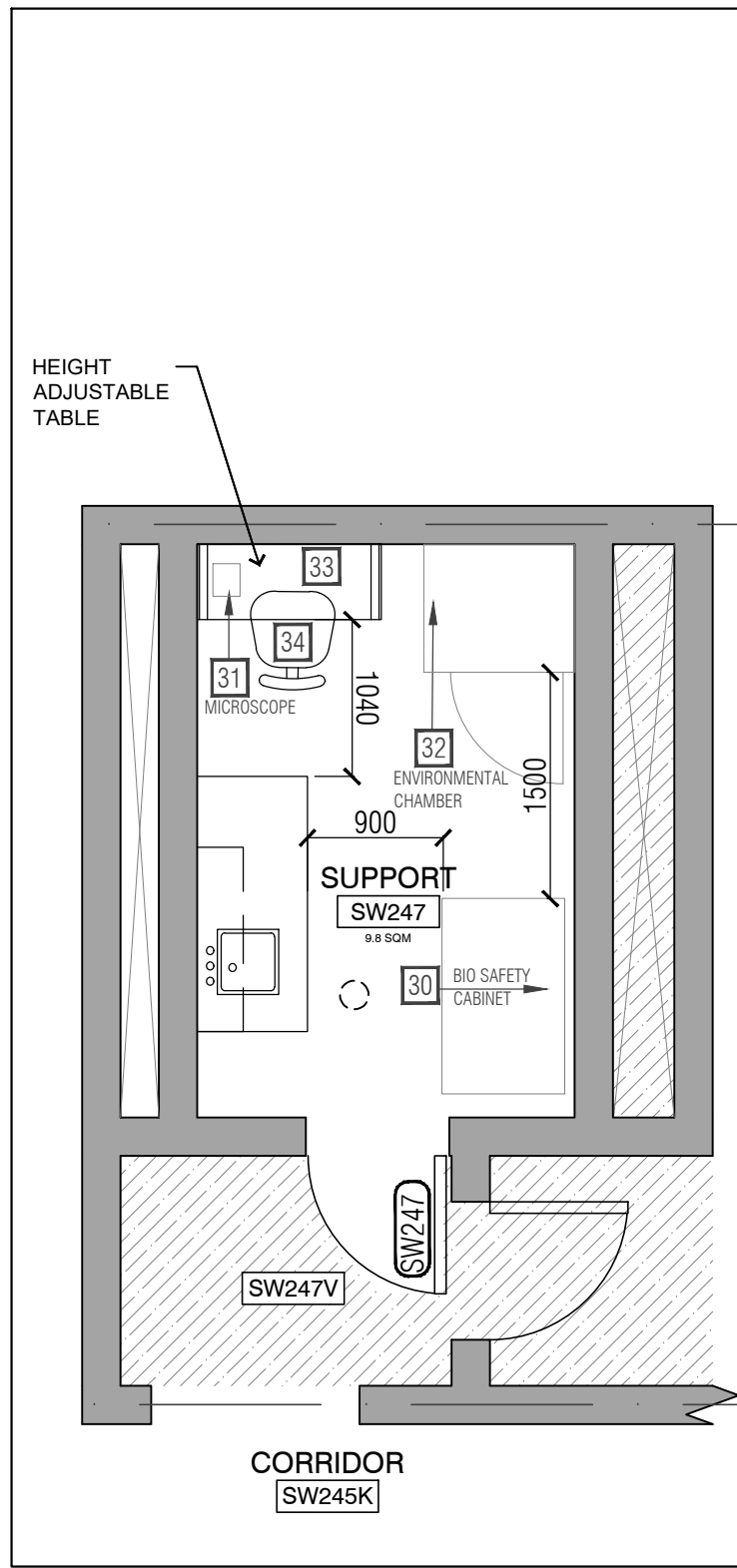
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PLANS

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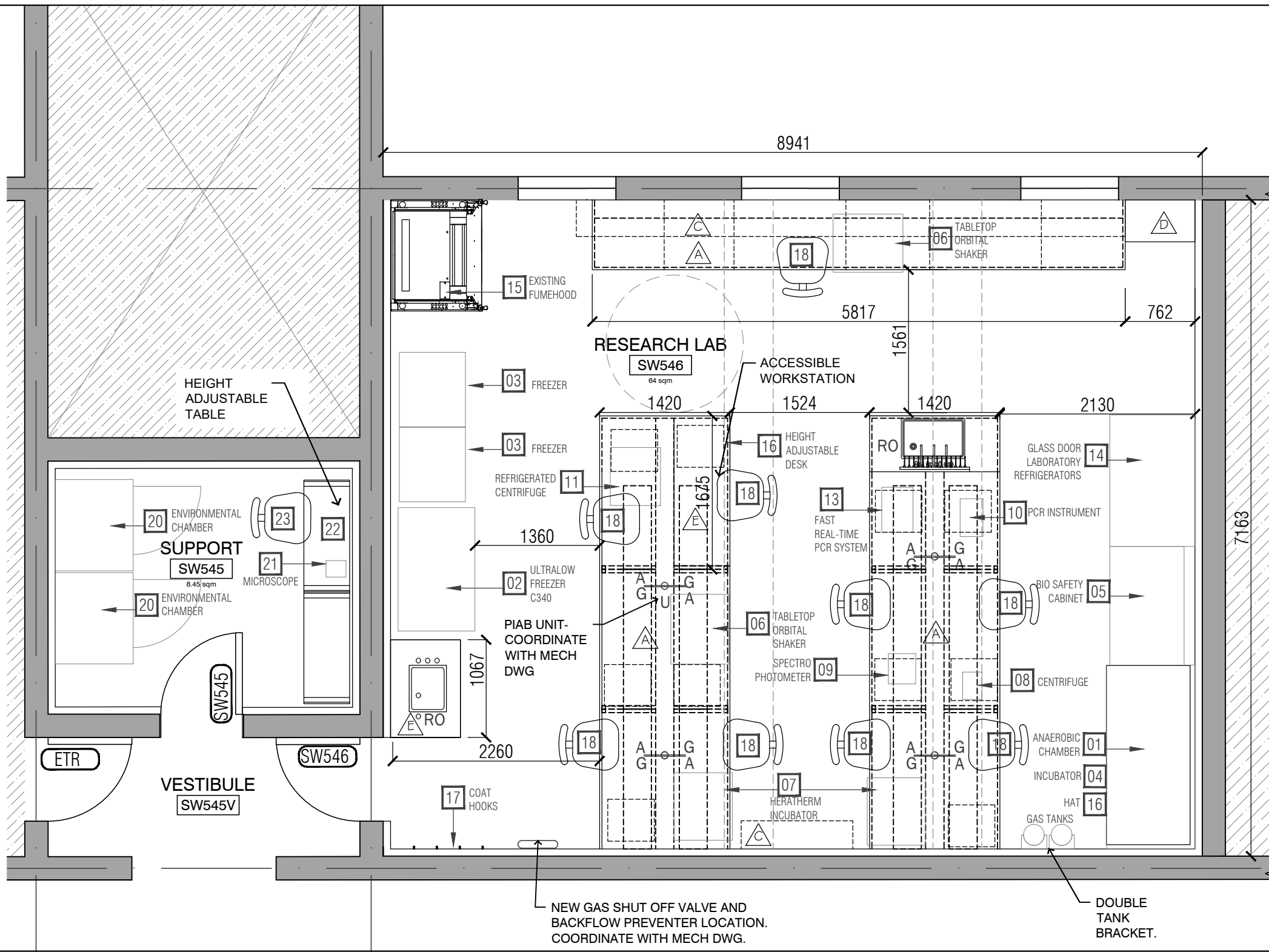
A2.2



01
A2.3
SW247 PROPOSED FFE LAYOUT
1:50

MAJOR EQUIPMENT LIST - SW546				
EQUIPMENT NUMBER	EQUIPMENT TYPE/FUNCTION	MANUFACTURER / MODEL NUMBER	SUPPLIER	QUANTITY
1	Anaerobic chamber workstation	Coy - Type A vinyl chamber	Owner	1
2	Ultralow freezer	Eppendorf New Brunswick Premium -80C Freezers - model C340	Owner	1
3	Freezer	GE	Owner	2
4	Anaerobic chamber incubator	Coy	Owner	1
5	Bio Safety Cabinets/Laminar flow cabinet	Thermo Fisher 1305, 1300 Series A2 Class II, Type A2 Bio Safety Cabinets	Owner	1
6	Tabletop orbital shaker	Thermo Fisher	Owner	2
7	Heratherm Tabletop Incubator	Thermo Fisher IMH150 Advanced Protocol Incubators / IMH150-S Advanced Protocol Security Incubators	Owner	2
8	Centrifuge	Eppendorf Centrifuge 5418R (Looks like 5418 is discontinued, I assumed using 5418R)	Owner	1
9	Spectrophotometer	Thermo Scientific Genesys 20	Owner	1
10	PCR thermal cycler	Eppendorf Mastercycler Nexus X2 / GX2	Owner	1
11	Refrigerated centrifuge	Eppendorf Centrifuge refrigerated 5804R (rotor & adaptors), Fisher 05-401-204	Owner	1
12	Gel Documentation Systems	Avogen Gel Documentation System GD-1000 - Fisher	Owner	1
13	PCR System laptop	Thermo Fisher Applied Biosystems 7500 Real-time PCT System, laptop	Owner	1
14	Glass door laboratory refrigerator	Fisherbrand™ Isolamp™ FBG Series Glass double door Laboratory Refrigerators - model FBG4505GA	Owner	1
15	Existing Fume Hood	-	Existing	1
16	Height adjustable desk	Casework Supplier	Casework Supplier	2
17	Coat Hooks	Richelleu Triple Coat Hook CTWSLHKSC1	Contractor	8
18	Lab chairs	TBD	Owner	9

MAJOR EQUIPMENT LIST - SW545 "Dirty" room				
REFERENCE NUMBER	EQUIPMENT TYPE/FUNCTION	MANUFACTURER / MODEL NUMBER	SUPPLIER	QUANTITY
20	Environmental chamber	Percival® model environmental chamber TE-30VL	Owner	2
21	Nikon SMZ-745 Stereo Microscope	Nikon	Owner	1
22	Height adjustable desk	Casework Supplier	Casework Supplier	1
23	Lab chairs	TBD	Owner	1



02
A2.3
SW545 & SW546 PROPOSED FFE LAYOUT
1:50

MAJOR EQUIPMENT LIST - SW247 "Clean" Room				
REFERENCE NUMBER	EQUIPMENT TYPE/FUNCTION	MANUFACTURER / MODEL NUMBER	SUPPLIER	QUANTITY
30	Bio Safety Cabinets/Laminar flow cabinet	Thermo Fisher 1305, 1300 Series A2 Class II, Type A2 Bio Safety Cabinets	Owner	1
31	Nikon SMZ-745 Stereo Microscope	Nikon	Owner	1
32	Environmental chamber	Percival® model environmental chamber TE-30VL	Owner	1
33	Height adjustable desk	Casework Supplier	Casework Supplier	1
34	Lab chairs	TBD	Owner	1

MAJOR EQUIPMENT LIST - SW526				
REFERENCE NUMBER	EQUIPMENT TYPE/FUNCTION	MANUFACTURER / MODEL NUMBER	SUPPLIER	QUANTITY
40	Computer monitor	TBD	Owner	6
41	iMac	TBD	Owner	5
42	Height Adjustable desk	TBD	Owner	6
43	Coat Hooks	Richelleu Triple Coat Hook CTWSLHKSC1	Contractor	4
44	Printer	TBD	Owner	1
45	36" x 48" White Boards	TBD	Owner	1

04
A2.3
PROPOSED EQUIPMENT SCHEDULE
NTS

MAJOR FURNITURE LIST - SW526 & SW526A				
REFERENCE NUMBER	EQUIPMENT TYPE/FUNCTION	MANUFACTURER / MODEL NUMBER	SUPPLIER	QUANTITY
50	Office Chair	TBD	Owner	6
51	Pedestal	TBD	Owner	5
52	Storage	TBD	Owner	2
53	Sofa	TBD	Owner	1
54	Small Table	TBD	Owner	1
55	Lateral File Cabinet with Upper Shelf	TBD	Owner	2

05
A2.3
LOOSE FURNITURE SCHEDULE
NTS

- △ COUNTERS AT STANDING HEIGHT (36")
- △ COUNTERS AT SEATED HEIGHT (30")
- △ OPEN SHELVES
- △ WALL CABINET WITH GLASS DOORS (18" D)
- △ COUNTER AT ACCESSIBLE HEIGHT

GENERAL NOTES APPLY TO ALL DRAWINGS:

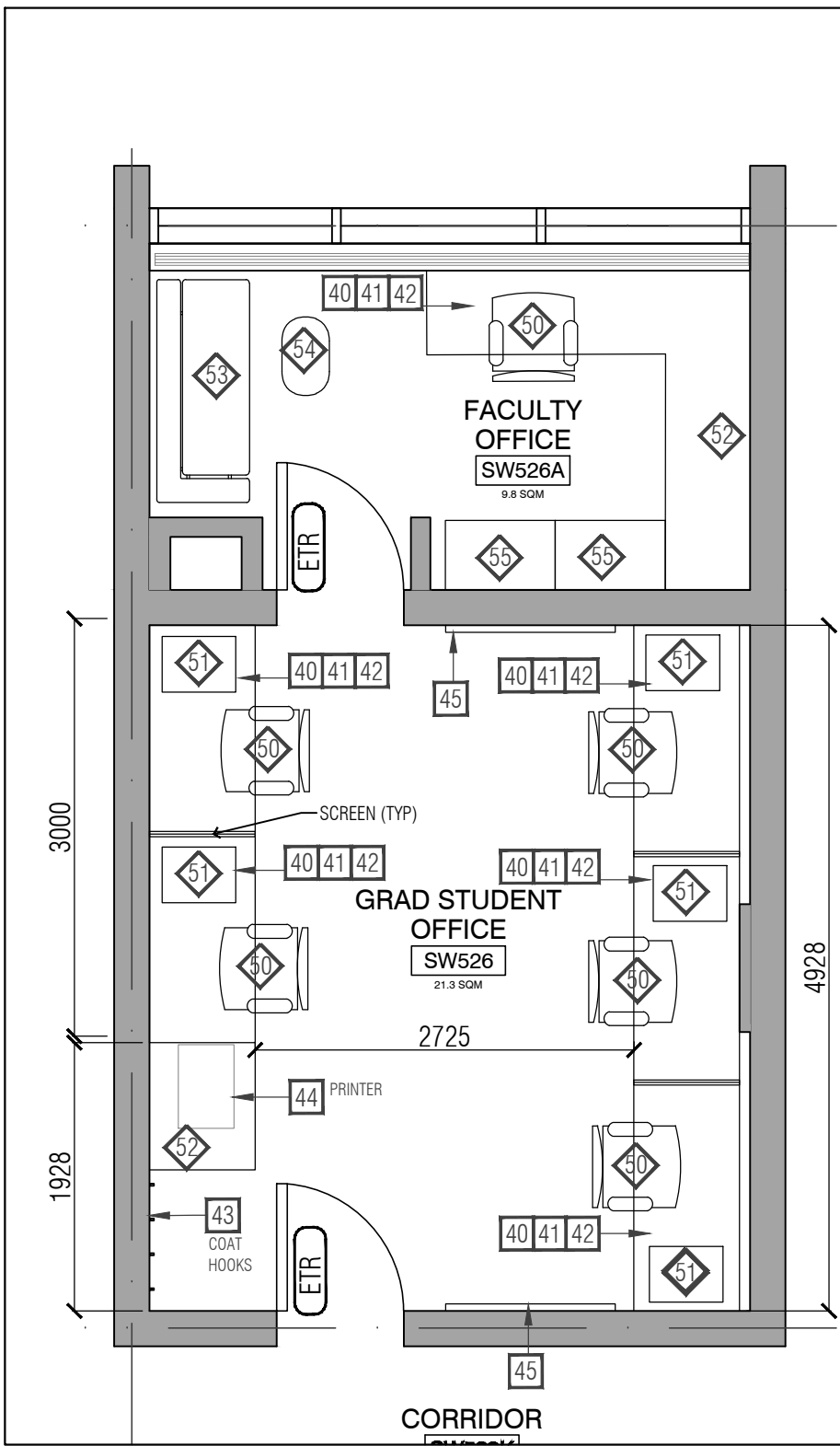
- THE DRAWINGS ARE NOT STANDALONE AND ARE TO BE READ IN CONJUNCTION WITH THE COMPLETE SET OF CONTRACT DOCUMENTS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING (PROVINCIAL & MUNICIPAL) AUTHORITIES.
- EXISTING CONSTRUCTION SHOWN HAS BEEN TAKEN FROM AVAILABLE INFORMATION, WHEN SPECIFIC DETAILS ARE UNAVAILABLE, ASSUMPTIONS HAVE BEEN MADE REGARDING PROBABLE CONSTRUCTION. ANY VARIANCE FROM CONSTRUCTION AS SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO ATTENTION OF UTSC PM.
- FILL ALL EXISTING HOLES LEFT FROM MECHANICAL AND ELECTRICAL SERVICES REMOVED OR RELOCATED TO MAINTAIN REQUIRED FIRE SEPARATIONS.
- PATCH AND MAKE GOOD ALL EXISTING FLOOR, WALL AND CEILING MATERIALS AND FINISHES DESTROYED IN PROCESS OF DEMOLITION OR REMOVED BY CONSTRUCTION TO MATCH EXISTING ADJACENT.
- CLEAN UP DEBRIS ON A DAILY BASIS AND DISPOSE OF IN AN APPROVED DISPOSAL FACILITY OFFSITE ON A REGULAR BASIS. BUILDING PREMISES ARE TO BE THOROUGHLY CLEANED PRIOR TO TAKEOVER BY THE OWNER.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND TIDY MANNER.
- ADEQUATELY PROTECT THE WORK AT ALL STAGES OF CONSTRUCTION AND MAINTAIN THE PROTECTION UNTIL WORK IS COMPLETED. REMOVE AND REPLACE AT NO EXPENSE TO THE OWNER ANY DAMAGED WORK AND MATERIALS THAT CANNOT BE REPAIRED OR RESTORED TO OWNER'S SATISFACTION.
- CONTRACTOR TO INCLUDE FOR REMOVAL, TEMPORARY STORAGE ON SITE OR HANDING OVER TO OWNER AS DETERMINED BY OWNER AND REINSTALLATION WHERE NOTED OF EXISTING EQUIPMENT, LIGHT FIXTURES, DOORS, HARDWARE, ETC. THAT ARE REQUIRED TO BE REMOVED, RELOCATED AND/OR REINSTALLED TO COMPLETE THE WORKS. ALL REMOVED MATERIALS REQUIRED TO BE REINSTALLED SHALL BE REINSTALLED IN UN DAMAGED CONDITION.
- SUPPLY AND INSTALL [8] COAT HOOKS IN SW546 AND [4] COAT HOOKS IN SW526. COORDINATE LOCATIONS WITH UTSC PM.

DRAWING NOTES:

- ALL EQUIPMENT AND FURNITURE ITEMS TO BE PROVIDED BY THE OWNER EXCEPT FOR ITEM 17 & 43 ON THE EQUIPMENT LIST.
- GENERAL CONTRACTOR TO SUPPLY AND INSTALL ALL EQUIPMENT AND FURNISHINGS WHERE APPLICABLE ON FFE SCHEDULE, ON THIS DRAWING PAGE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
- GENERAL CONTRACTOR TO ALLOW FOR RECEIVING OF ALL EQUIPMENT AND FURNITURE AT LOADING DOCK AND COORDINATING INSTALL INCLUDING FOR ITEMS PURCHASED BY OWNER (UTSC). COORDINATE WITH UTSC PM FOR ACCEPTABLE ROUTES.
- GENERAL CONTRACTOR TO PROVIDE ADEQUATE BLOCKING FOR WALL MOUNTED EQUIPMENTS WHERE INDICATED.

CASH ALLOWANCE A2: CASEWORK

IT IS REQUESTED FROM THE SUCCESSFUL PROPONENT TO CARRY A CASH ALLOWANCE DETAILED IN SCHEDULE D – PRICE FORM, FOR THE SUPPLY AND INSTALLATION OF METAL CASEWORK, SHELVING AND EPOXY BENCHTOPS IN SW247, SW545 & SW546.

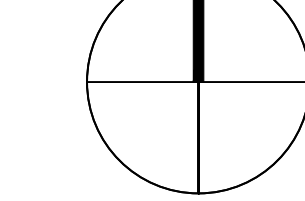


03
A2.3
SW526 & 526A PROPOSED FFE LAYOUT
1:50



DESIGN & CONSTRUCTION MANAGEMENT
1265 Military Trail
Toronto Ontario
M1C 1A4

PROJECT
NORTH



LEGEND:

- OUT OF SCOPE
- AREA OF WORK
- EXISTING PARTITION WALL TO REMAIN
- NEW PARTITION
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME AT LOCATION SHOWN

02 2025-05-01 ISSUED FOR TENDER NF
01 2025-04-15 ISSUED FOR RFQ NF

NO. DATE REVISION NO BY

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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #:
DCM2024-09

PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

HUMANITIES WING, 1265 MILITARY TRAIL

DRAWN BY: NF CHECKED BY: -

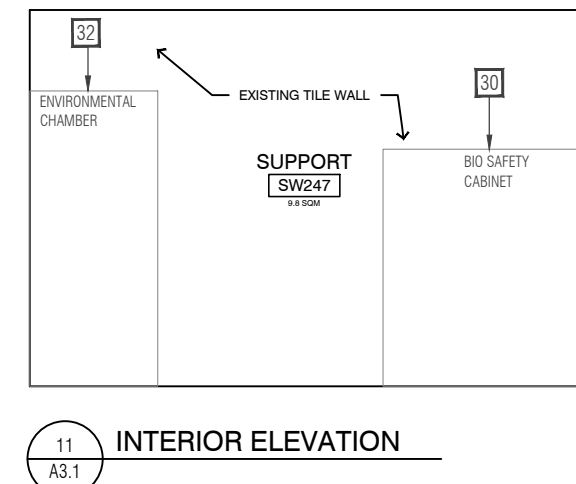
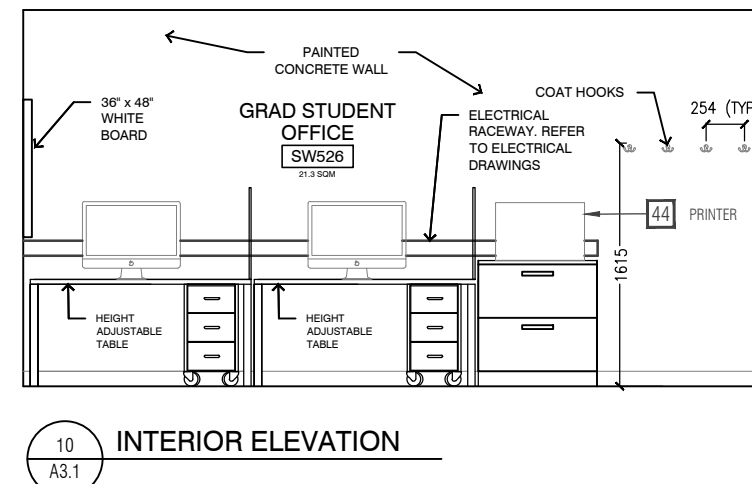
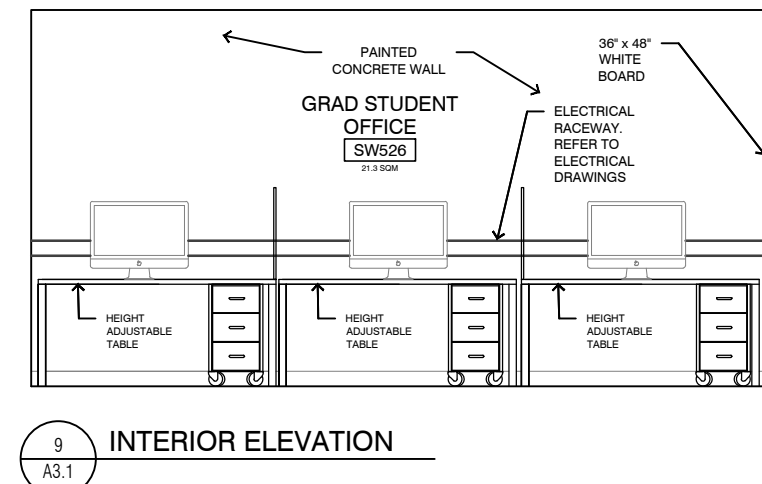
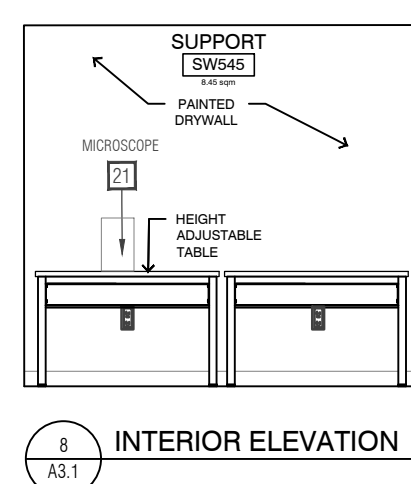
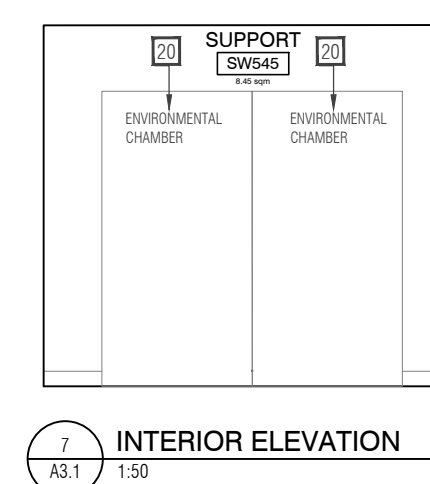
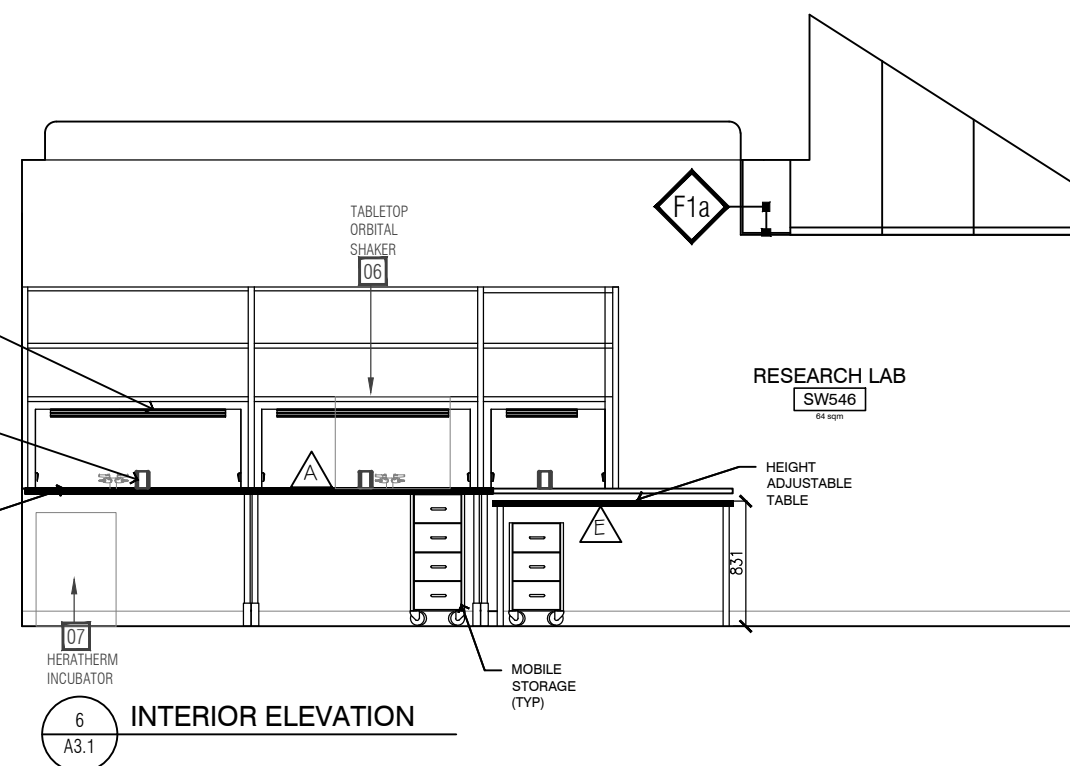
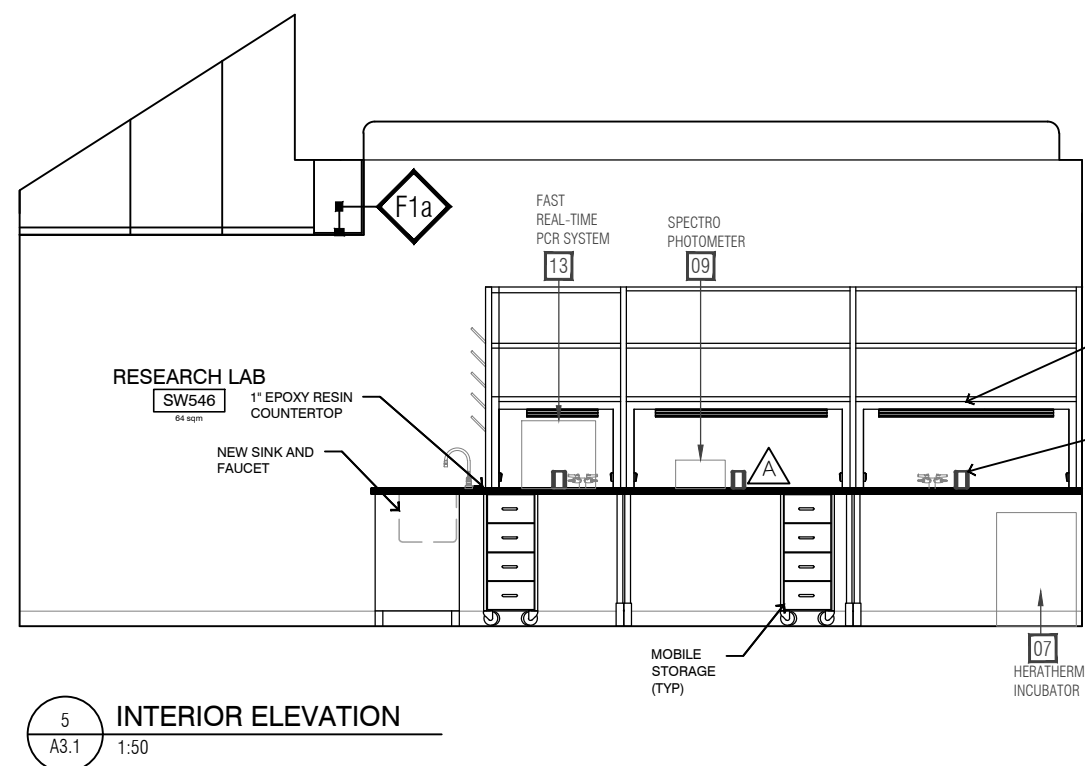
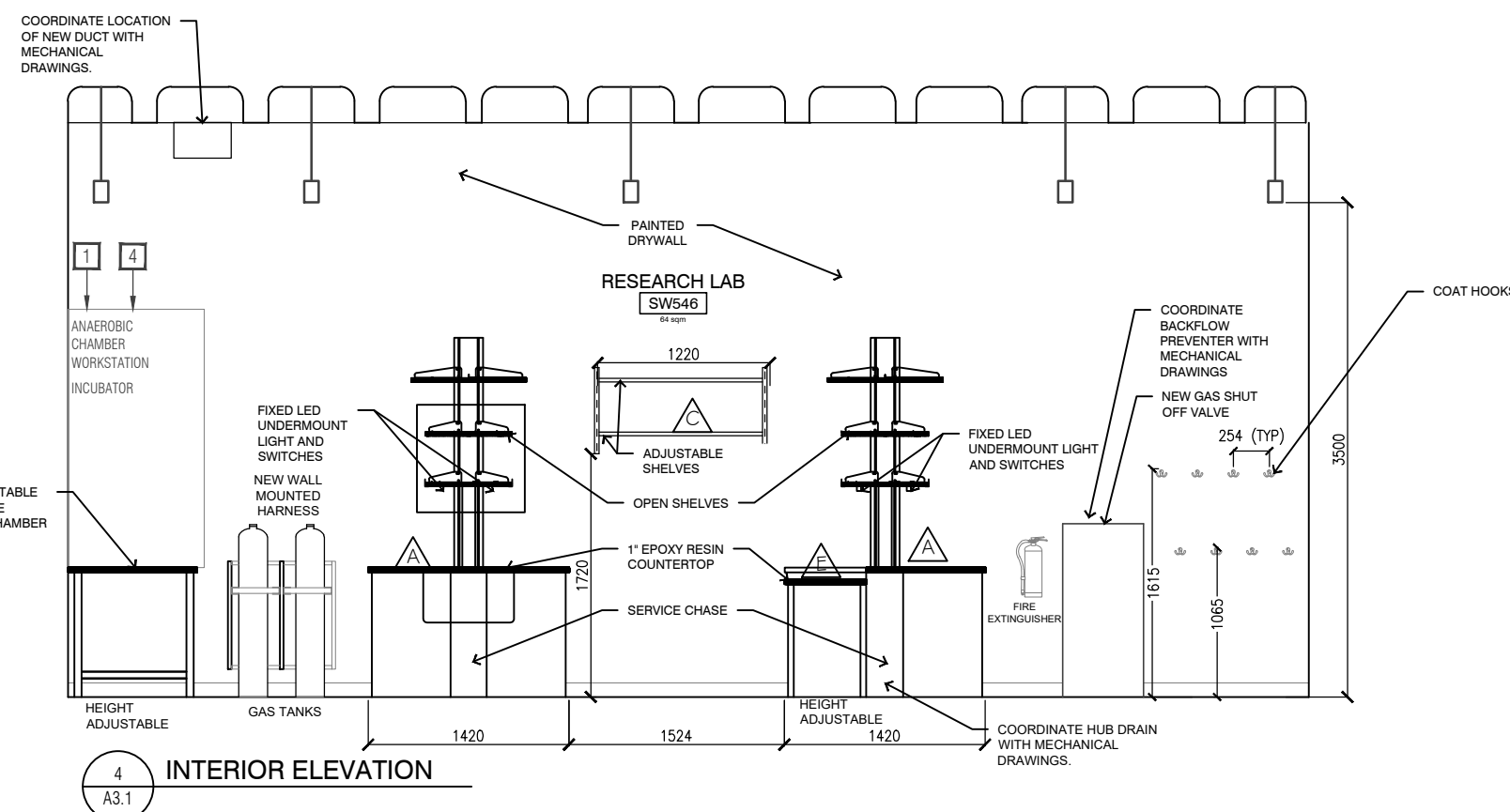
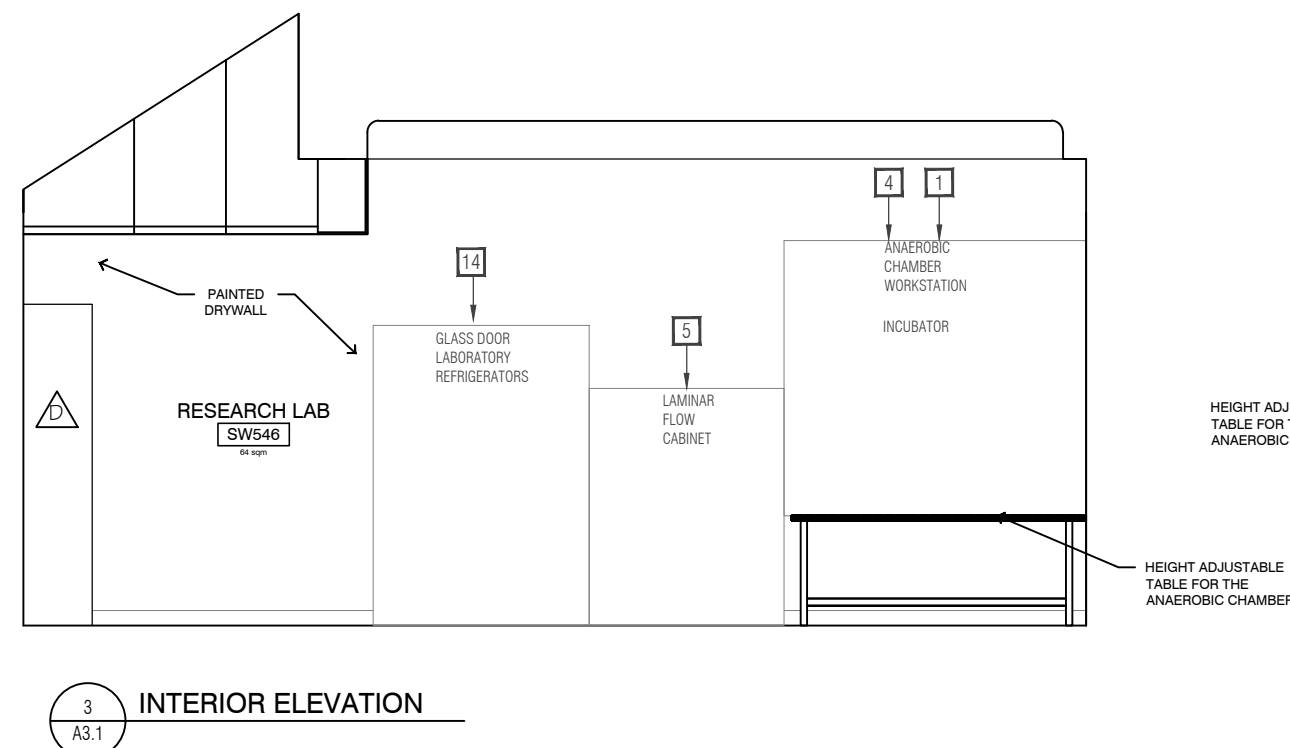
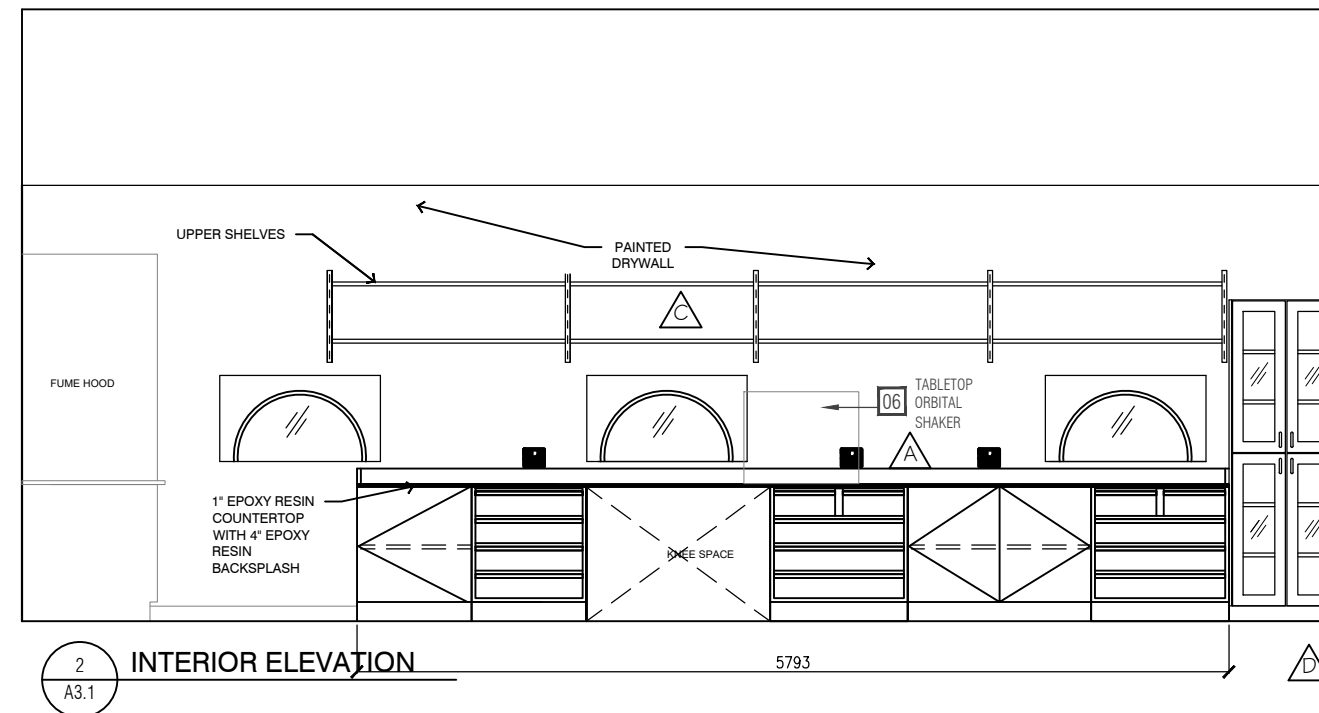
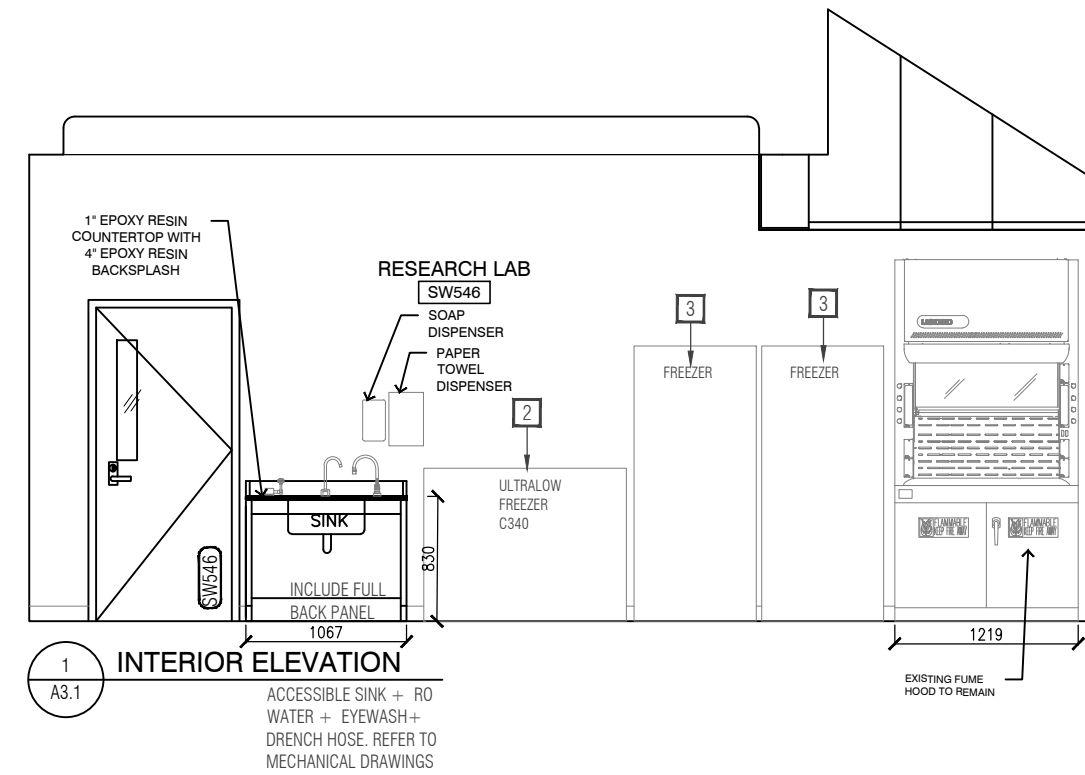
DRAWING TITLE:
**PROPOSED FF&E PLANS,
EQUIPMENT SCHEDULE &
LOOSE FURNITURE SCHEDULE**

DATE:
2025-05-01
SCALE:
AS NOTED

DRAWING No:
A2.3

02
A2.4

03
A2.4 NTS



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PROJECT #:
DCM2024-09

PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

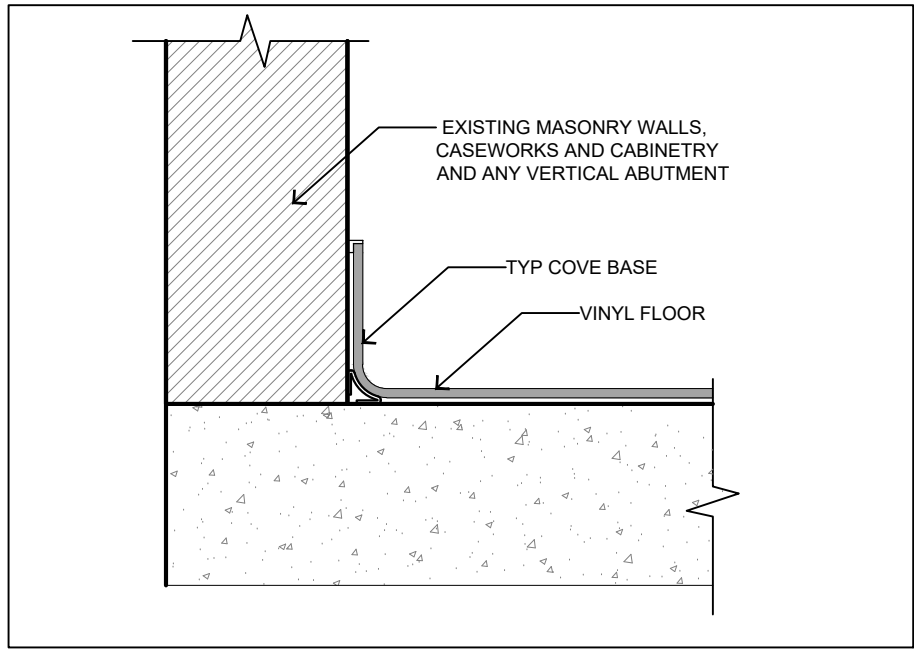
HUMANITIES WING, 1265 MILITARY TRAIL

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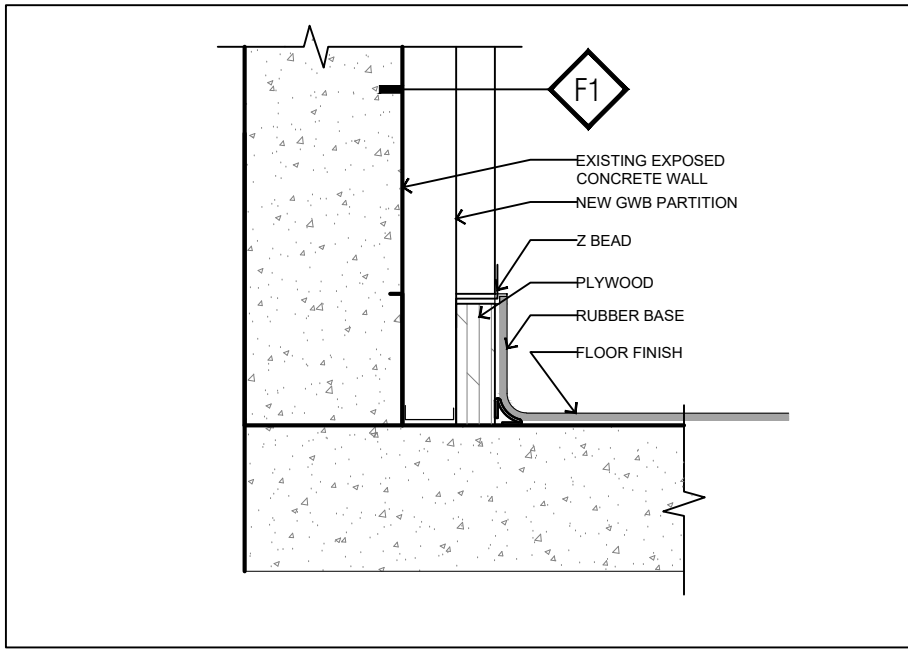
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INTERIOR ELEVATIONS

DATE:
2025-05-01
SCALE:
AS NOTED

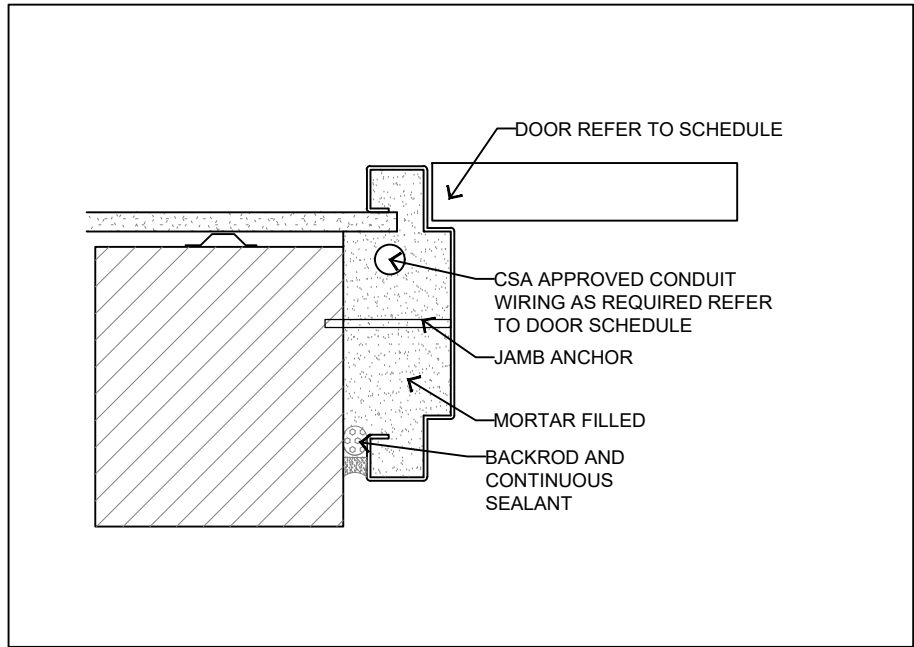
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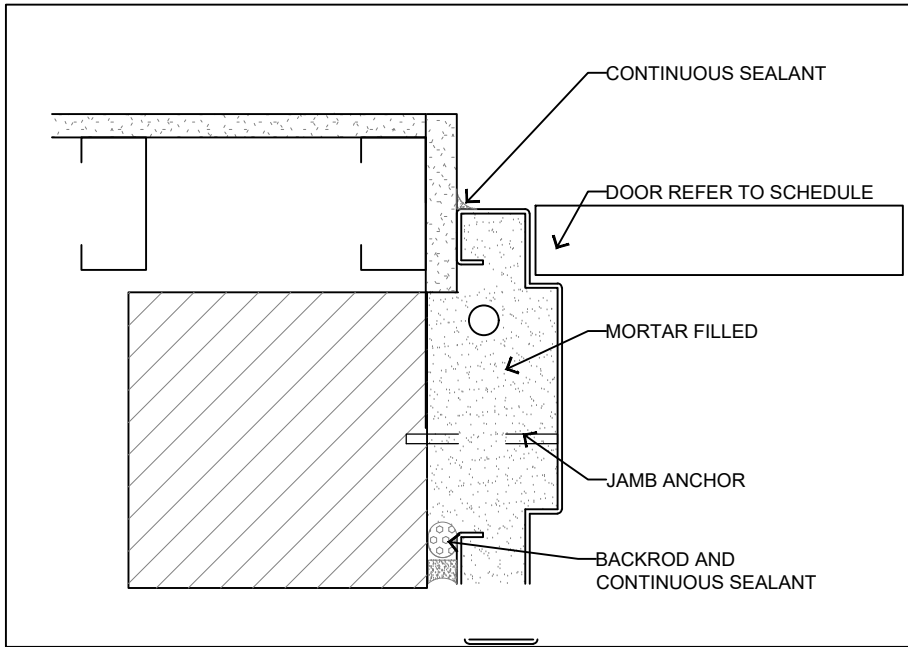
01
A3.2
COVE BASE DETAIL
NTS



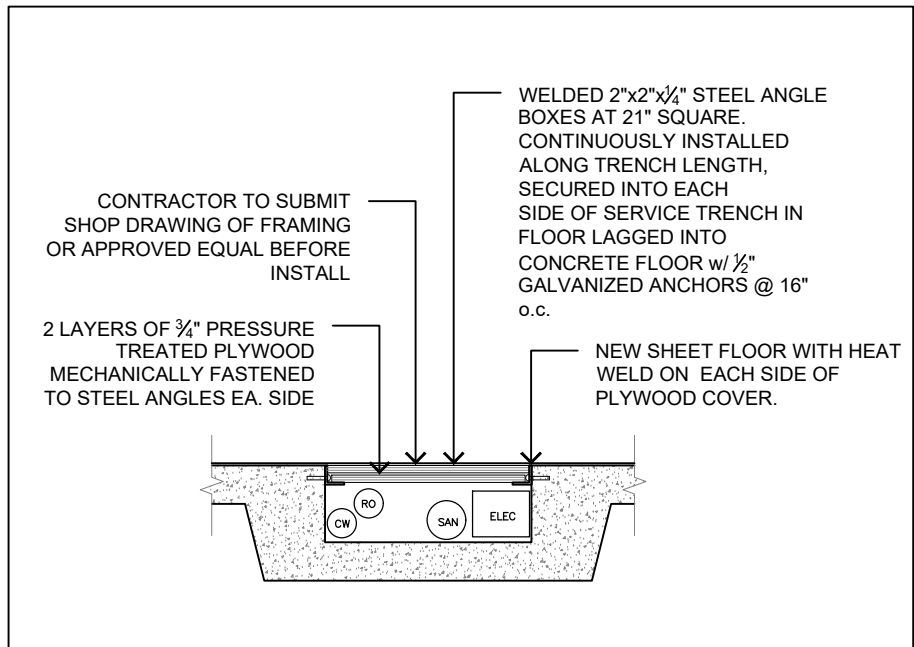
02
A3.2
COVE BASE DETAIL AT NEW WALL
NTS



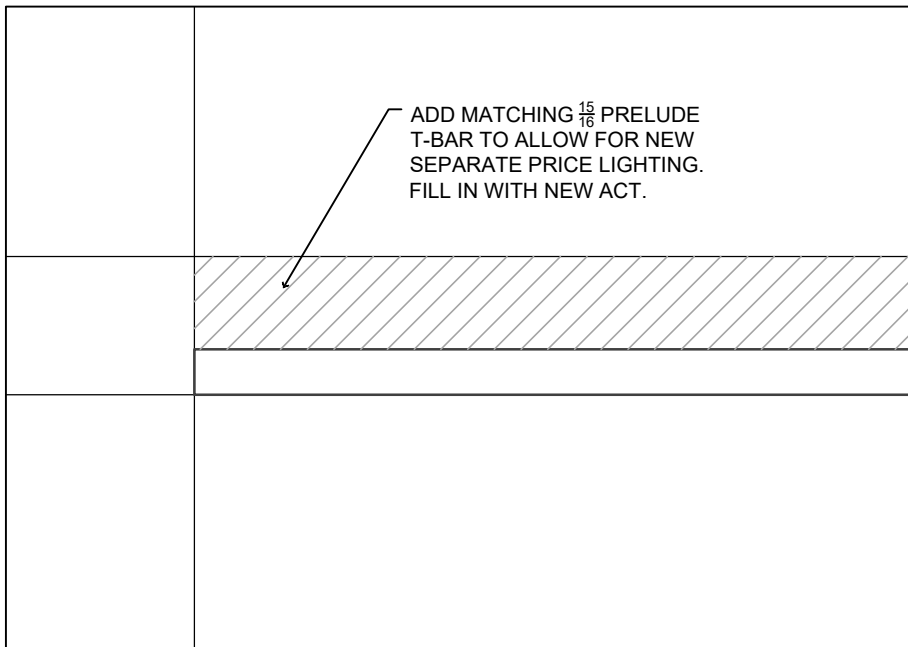
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A3.2
TYPICAL DOOR FRAME DETAIL
NTS



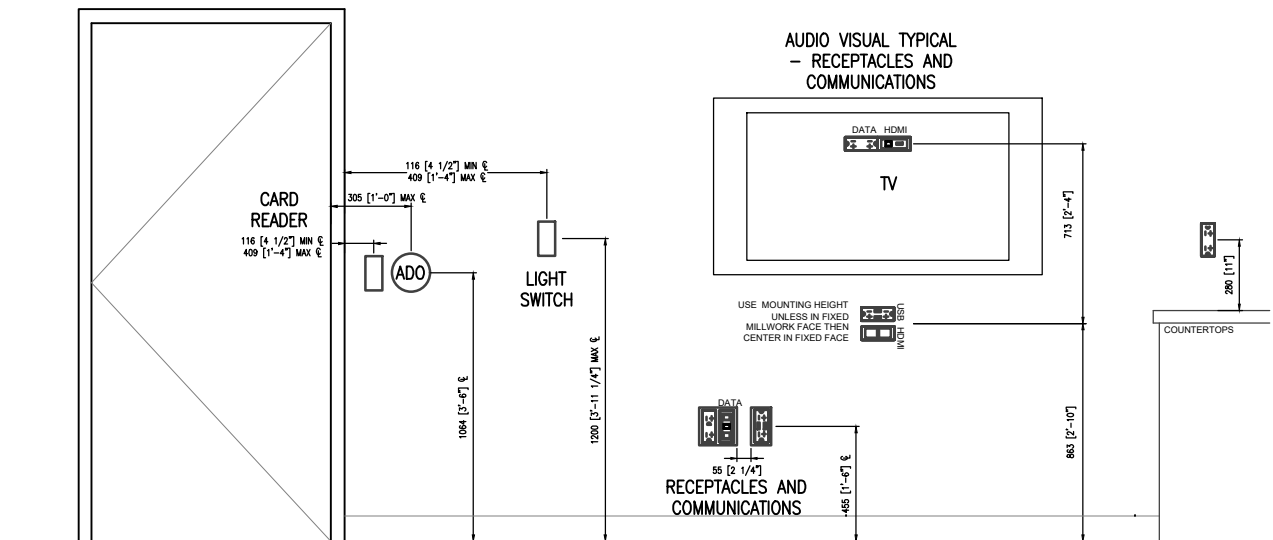
04
A3.2
TYPICAL DOOR FRAME DETAIL
NTS



05
A3.2
TRENCH COVER DETAIL
NTS



06
A3.2
TYPICAL ACT DETAIL- SEPARATE PRICE C3
NTS



07
A3.2
TYPICAL MOUNTING HEIGHTS
NTS

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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #
DCM2024-09

PROJECT TITLE
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

HUMANITIES WING, 1265 MILITARY TRAIL

DRAWN BY: NF CHECKED BY: -

DRAWING TITLE
MISCELLANEOUS DETAILS

SW247, SW526, SW545 & SW546

INTERIOR RENOVATION-SCIENCE WING

UNIVERSITY OF TORONTO SCARBOROUGH

DRAWING LIST

- M0.1 DRAWING LIST, KEY PLAN, SYMBOLS AND LEGENDS
- M1.1 - PLUMBING DEMOLITION PLAN SW247, SW545 & SW546
- M1.2 - PLUMBING DEMOLITION PLAN SW245K AND SW431K
- M1.3 - HVAC DEMOLITION PLAN SW247, SW545 & SW546
- M2.1 - PROPOSED PLUMBING PLAN SW247, SW545 & SW546
- M2.2 - PROPOSED PLUMBING PLAN SW245K AND SW431K
- M3.1 - PROPOSED HVAC PLAN SW247, SW545 & SW546

LINE TYPE LEGEND

	EXISTING TO REMAIN
	HIDDEN
	TO BE REMOVED

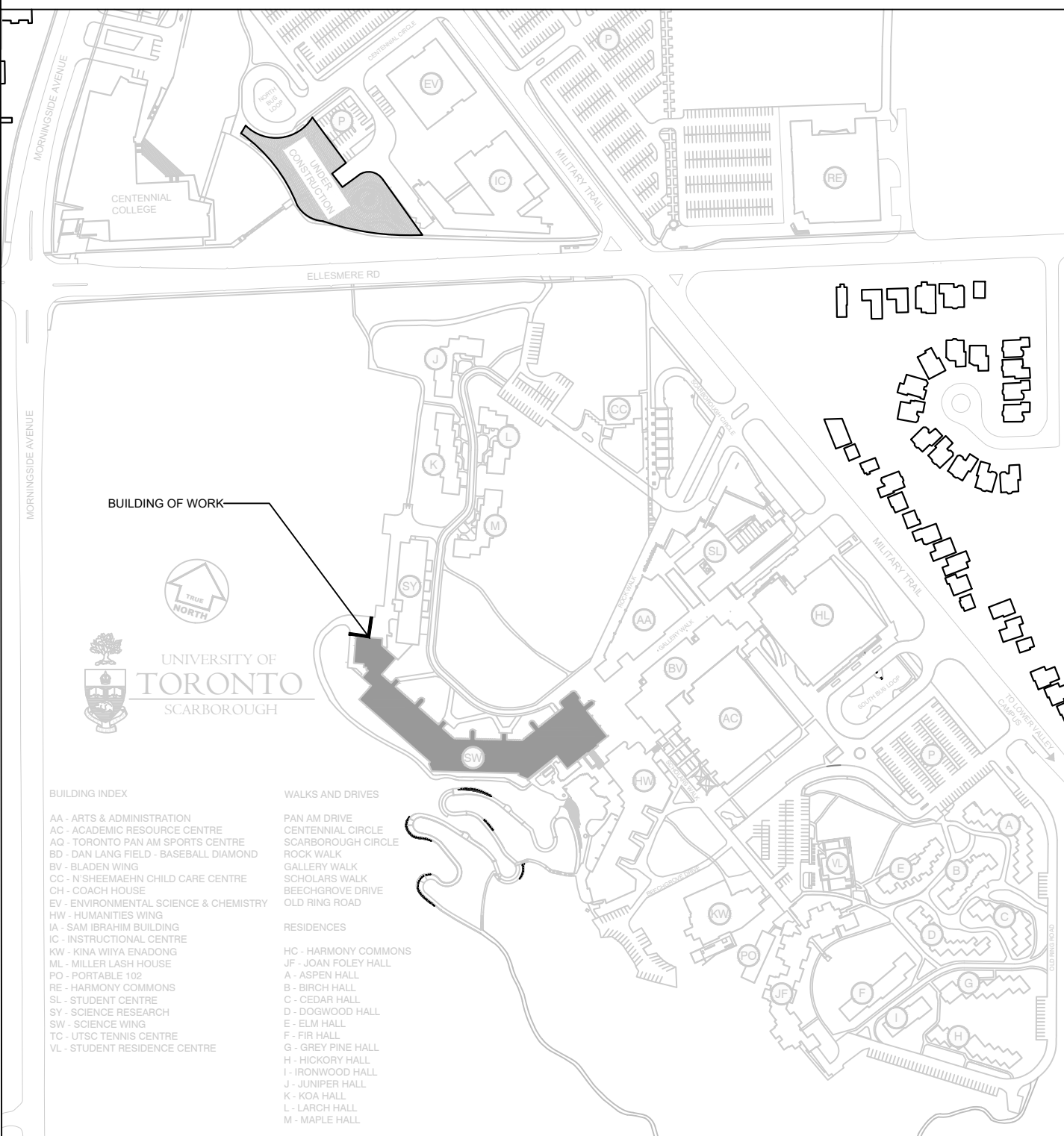
02
M0.1
LINE TYPE LEGEND
N.T.S.

PLUMBING LEGEND

	ELBOWS		SANITARY WASTE VENT		DUCTED RETURN OR EXHAUST REGISTER OR GRILLE
	TEE		STEAM		SQUARE OR RECTANGULAR SUPPLY DIFFUSER
	BRANCH OFF BOTTOM OF MAIN.		CONDENSATE		NON DUCTED ROUND RETURN OR EXHAUST GRILLE
	BRANCH OFF TOP OF MAIN.		FLOOR DRAIN		SUPPLY FAN
	PIPE DROP OR FROM BELOW		BACK FLOW PREVENTOR		EXHAUST FAN
	PIPE UP OR FROM ABOVE		SINK		FIRE DAMPER
	CAPPED CONNECTION		PIAB VACUUM		RETURN FAN
	COMPLETE WITH	HVAC LEGEND			DOWN
	CONTROL VALVE		SUPPLY DUCT UP OR FROM ABOVE		CONNECT TO EXISTING
	GATE VALVE		SUPPLY DUCT DOWN OR FROM BELOW		THERMOSTAT
	BALL VALVE		RETURN OR EXHAUST DUCT UP OR FROM ABOVE		VENTURI VALVE
	THERMOSTATIC MIXING VALVE		RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		HUMIDITY SENSOR
	TEMPERED WATER		REHEAT COIL IN DUCT		THERMOSTAT CONTROL LINE
	NON POTABLE COLD WATER		ELECTRIC REHEAT COIL IN DUCT		FOR SUPPLY AIR GRILLES: "A" DENOTES TYPE, 300 DENOTES AIR QUANTITY IN CFM
	NON POTABLE HOT WATER		ROUND DUCT UP OR FROM ABOVE		FOR RETURN AIR GRILLES: "A" DENOTES TYPE, 300 DENOTES AIR QUANTITY IN CFM
	CHILLED WATER SUPPLY		ROUND DUCT DOWN OR FROM BELOW		FOR SUPPLY AIR DIFFUSERS: "A" DENOTES TYPE, 300 DENOTES AIR QUANTITY IN CFM
	CHILLED WATER RETURN		DUAL DUCT TERMINAL UNIT	FIRE PROTECTION LEGEND	
	GLYCOL CHILLED SUPPLY		HOT DUCT		UPRIGHT SPRINKLER HEAD
	GLYCOL CHILLED RETURN		COLD DUCT		PENDANT SPRINKLER HEAD
	DOMESTIC COLD WATER		V.A.V. BOX		CONCEALED PENDANT SPRINKLER HEAD
	DOMESTIC HOT WATER		V.A.V. BOX WITH SOUND ATTENUATOR		SIDEWALL SPRINKLER HEAD
	NATURAL GAS		DUCT FIRE WRAP		SPRINKLER LINE
	COMPRESSED AIR		VARIABLE FREQUENCY DRIVE	NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.	
	REVERSE OSMOSIS		DUCTED SUPPLY REGISTER		
	LABORATORY WASTE DRAIN		DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		
	UNDERGROUND LAB WASTE DRAIN		ROUND SUPPLY DIFFUSER		

01
M0.1
MECHANICAL LEGEND
N.T.S.

UNIVERSITY OF TORONTO SCARBOROUGH KEY PLAN



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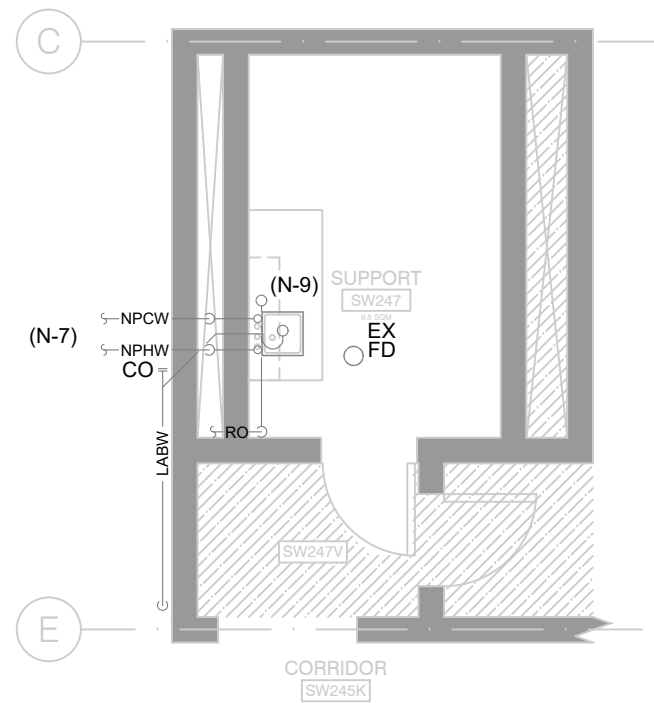
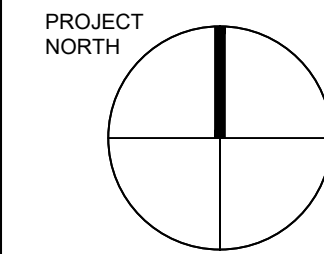
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PROJECT #:
DCM2024-09

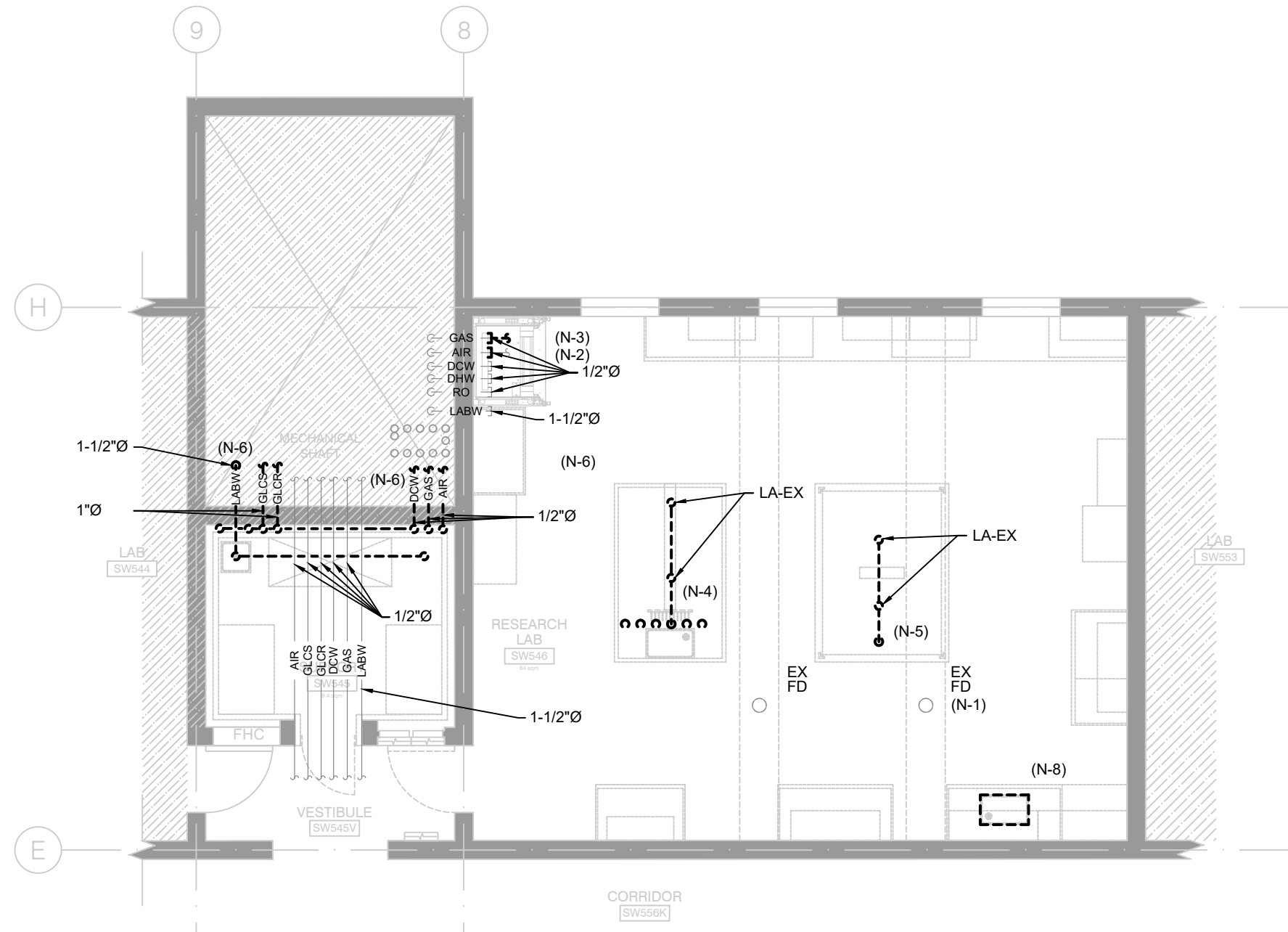
PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC
DRAWING TITLE:
DRAWING LIST, KEY PLAN,
SYMBOLS, LEGENDS
AND SCHEDULES

DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO:
M0.1



01
M1.1
SW247 EXISTING FLOOR PLAN
1:75



02
M1.1
SW545 & SW546 EXISTING FLOOR PLAN
1:75

DRAWING NOTES:

1. ALL EXISTING MECHANICAL SERVICES ARE SHOWN IN THEIR APPROXIMATE/BEST ESTIMATED LOCATION. EXACT LOCATION AND CONDITION OF THE SERVICES AND EQUIPMENT TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITION TO THE UNIVERSITY PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL WORK MUST BE PERFORMED WITH MINIMAL DISTURBANCES TO THE OPERATION OF THE FACILITY. COORDINATE WITH THE UNIVERSITY TO SCHEDULE WORK. CONTRACTOR TO ALLOW FOR AFTER-HOURS WORK AS REQUIRED FOR SHUTDOWNS TO SERVICES.
3. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY AND TAKE INTO CONSIDERATION ANY DESIGNATED SUBSTANCE MATERIAL ABATEMENT REQUIREMENTS PRIOR AND DURING PROJECT CONSTRUCTION.
4. CONTRACTOR TO COORDINATE EXACT LOCATION OF EXISTING DUCTS AND PIPES AND COORDINATE WITH OTHER SERVICES TO AVOID CONFLICT WITH EXISTING MECHANICAL, ELECTRICAL, AND LIFE SAFETY SERVICES (HVAC, PIPING, LIGHTING FIXTURES, PIPE HANGERS, ETC.). INFORM THE UNIVERSITY OF ANY RELOCATION OR DOWNTIME OF EXISTING SERVICES PRIOR TO WORK.

DEMOLITION NOTES:

- (N-1) EXISTING FLOOR DRAIN TO BE CAPPED WITH CLEANOUT COVER. SNAKE LINE PRIOR TO COVERING.
- (N-2) TEMPORARILY DISCONNECT AND CAP FUME HOOD COMPRESSED AIR LINE TO ALLOW FUME HOOD TO BE MOVED. COMPRESSED AIR SERVICE TO BE REINSTATED PER M2.1.
- (N-3) DISCONNECT AND CAP FUME HOOD GAS LINE TO ALLOW FUME HOOD TO BE MOVED. GAS SERVICE TO BE SUPPLIED FROM NEW SHUT OFF PER M2.1.
- (N-4) REMOVE EXISTING SINK AND ASSOCIATED FIXTURES. CUT BACK AND CAP DHW, DCW, RO, CA, GAS AND LABW PIPING IN CEILING SPACE OF SW429.
- (N-5) CUT BACK AND CAP CA PIPING IN CEILING SPACE OF SW429.
- (N-6) REMOVE EXISTING SINK AND ASSOCIATED FIXTURES WITHIN COLD ROOM. CUT BACK AND CAP DHW, DCW, LABW, GLCS, GLCR, AIR AND GAS PIPING AT MAINS IN SERVICE SHAFT. ALLOW FOR LINE FREEZING ON GLS, GLR, DCW AND DHW LINES.
- (N-7) 1/2" NPHW AND NPCW FED FROM EXISTING BFP IN SW253.
- (N-8) REMOVE EXISTING SINK AND ASSOCIATED FIXTURES. CUT BACK AND CAP DHW, DCW, RO AND LABW PIPING IN CEILING SPACE OF SW431K.
- (N-9) EXISTING SINK AND FIXTURES TO REMAIN.

01 2025-05-01 ISSUED FOR TENDER & PERMIT CD/JC

NO. DATE REVISION NO. BY



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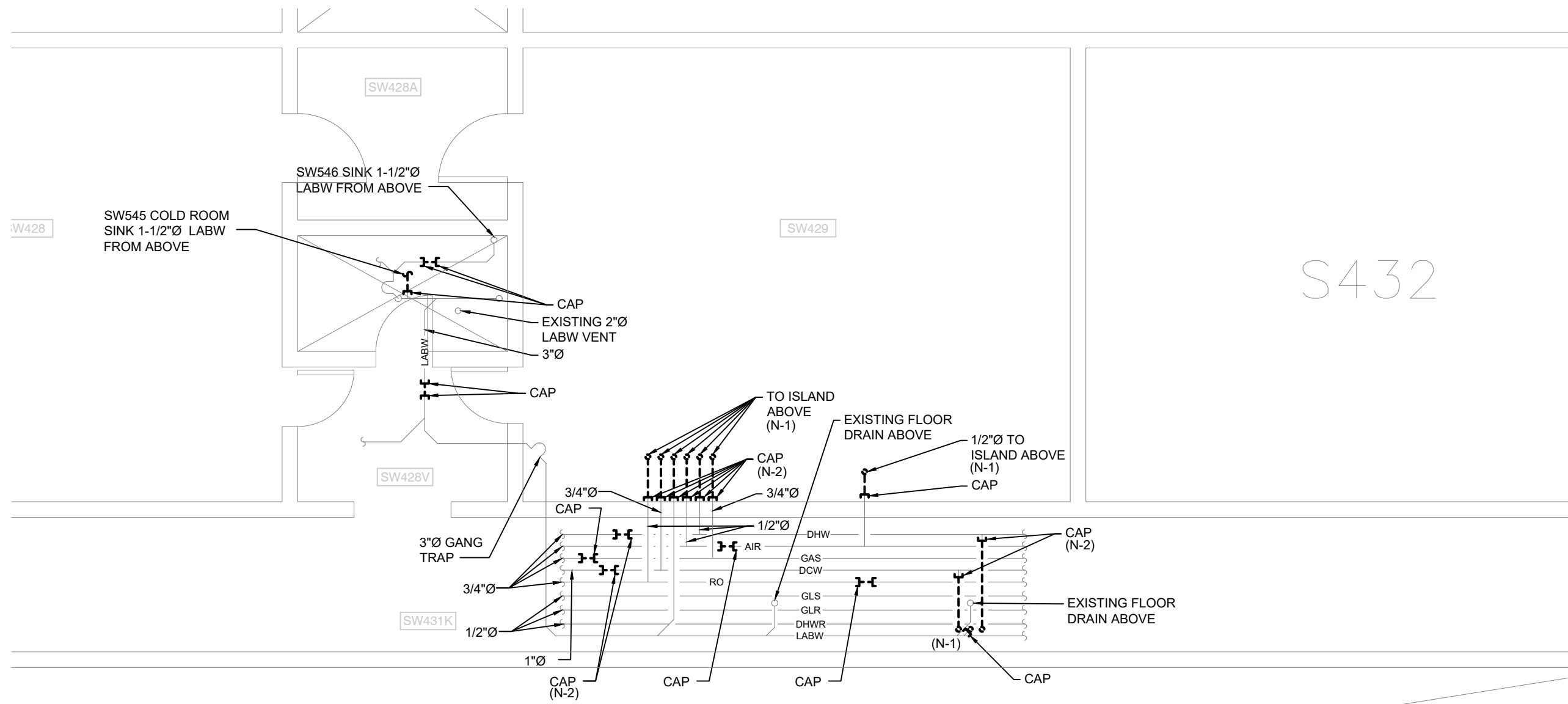
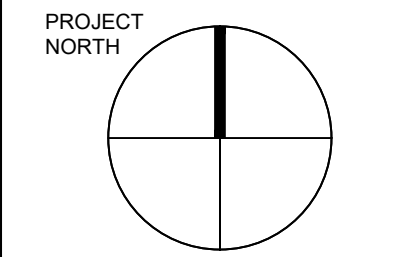
PROJECT #:
DCM2024-09

PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC

DRAWING TITLE:
**PLUMBING DEMOLITION PLAN
SW247, SW545 & SW546**

DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO.:
M1.1



01
M1.2
SW431K EXISTING FLOOR PLAN
1:75

DRAWING NOTES:

1. ALL EXISTING MECHANICAL SERVICES ARE SHOWN IN THEIR APPROXIMATE/BEST ESTIMATED LOCATION. EXACT LOCATION AND CONDITION OF THE SERVICES AND EQUIPMENT TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITION TO THE UNIVERSITY PRIOR TO THE COMMENCEMENT OF WORK.
2. ALL WORK MUST BE PERFORMED WITH MINIMAL DISTURBANCES TO THE OPERATION OF THE FACILITY. COORDINATE WITH THE UNIVERSITY TO SCHEDULE WORK. CONTRACTOR TO ALLOW FOR AFTER-HOURS WORK AS REQUIRED FOR SHUTDOWNS TO SERVICES.
3. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY AND TAKE INTO CONSIDERATION ANY DESIGNATED SUBSTANCE MATERIAL ABATEMENT REQUIREMENTS PRIOR AND DURING PROJECT CONSTRUCTION.
4. CONTRACTOR TO COORDINATE EXACT LOCATION OF EXISTING DUCTS AND PIPES AND COORDINATE WITH OTHER SERVICES TO AVOID CONFLICT WITH EXISTING MECHANICAL, ELECTRICAL, AND LIFE SAFETY SERVICES (HVAC, PIPING, LIGHTING FIXTURES, PIPE HANGERS, ETC.). INFORM THE UNIVERSITY OF ANY RELOCATION OR DOWNTIME OF EXISTING SERVICES PRIOR TO WORK.

DEMOLITION NOTES:

- (N-1) EXISTING SERVICE CORES TO BE FILLED PER ARCHITECTURAL PLANS.
- (N-2) CONTRACTOR TO ALLOW FOR PIPE FREEZING. TOTAL OF 6 DIFFERENT SERVICES.

01 2025-05-01 ISSUED FOR TENDER & PERMIT CD/JC

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PROJECT #:
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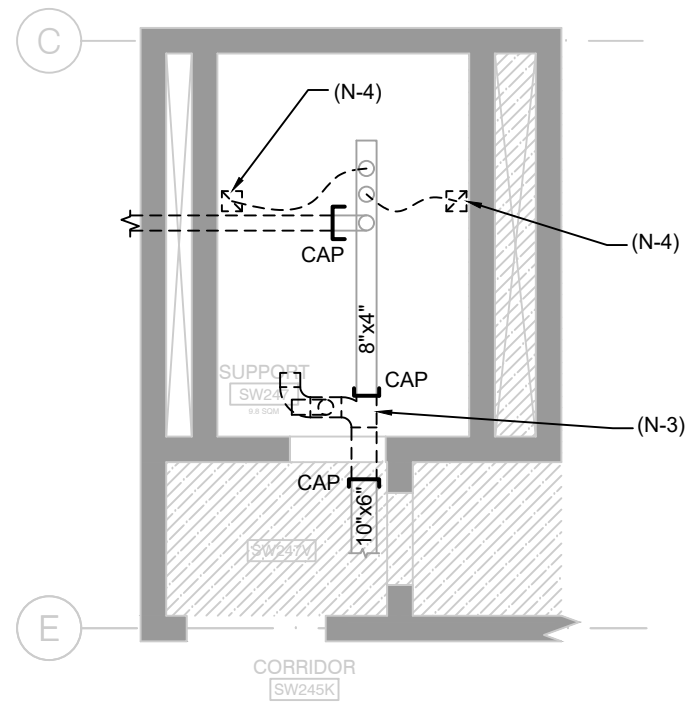
PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC

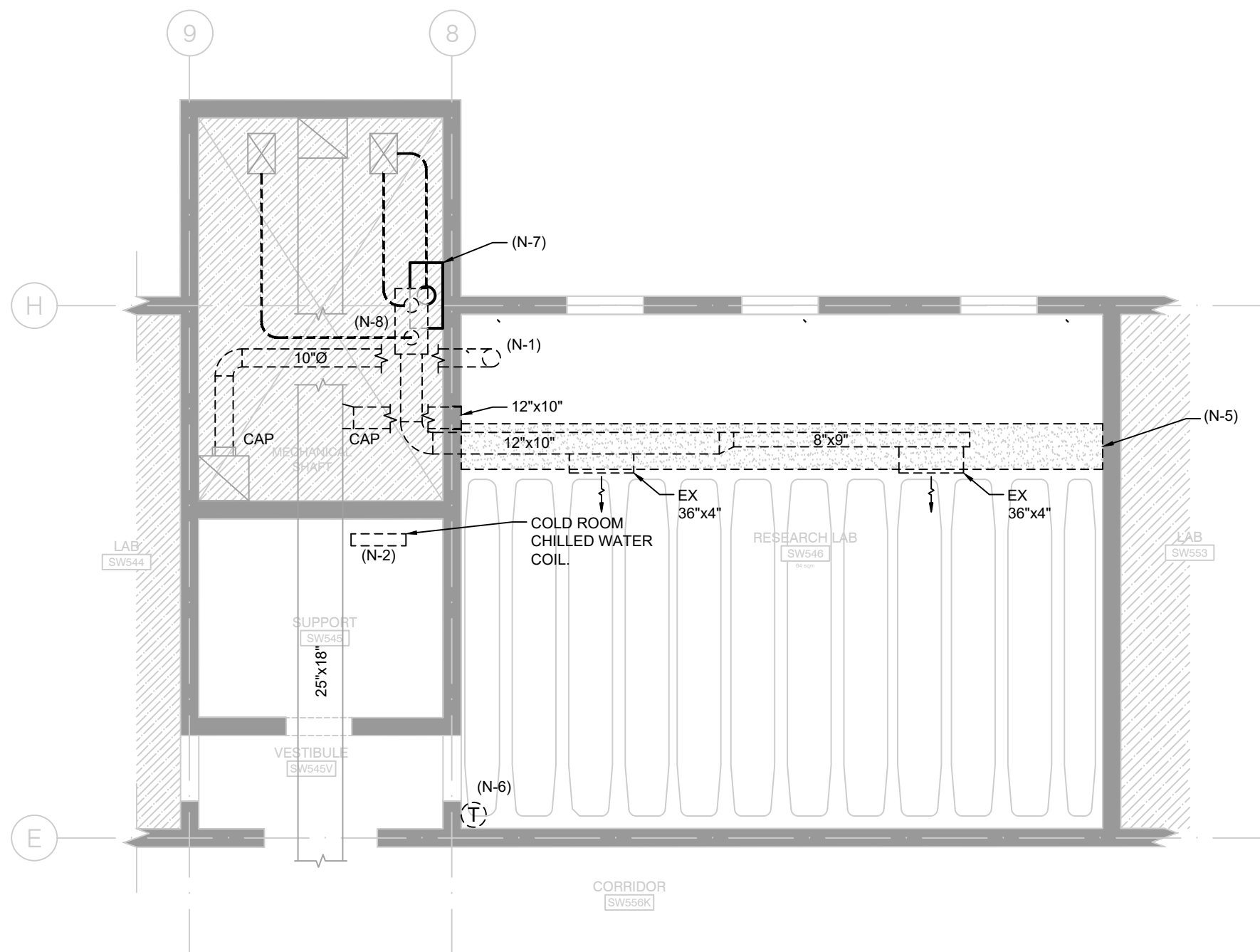
DRAWING TITLE:
**PLUMBING DEMOLITION PLAN
SW245K AND SW431K**

DATE:
2025-04-30
SCALE:
AS NOTED

DRAWING NO.:
M1.2



01 **SW247 EXISTING RCP**
M1.2 1:75



02 **SW545 & SW546 EXISTING REFLECTED CEILING PLAN**
M1.2 1:75

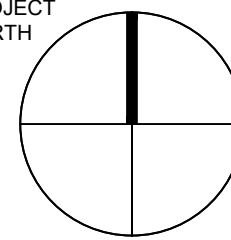
DRAWING NOTES:

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2. ALL WORK MUST BE PERFORMED WITH MINIMAL DISTURBANCES TO THE OPERATION OF THE FACILITY. COORDINATE WITH THE UNIVERSITY TO SCHEDULE WORK. CONTRACTOR TO ALLOW FOR AFTER-HOURS WORK AS REQUIRED FOR SHUTDOWNS TO SERVICES.
3. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY AND TAKE INTO CONSIDERATION ANY DESIGNATED SUBSTANCE MATERIAL ABATEMENT REQUIREMENTS PRIOR AND DURING PROJECT CONSTRUCTION.
4. CONTRACTOR TO COORDINATE EXACT LOCATION OF EXISTING DUCTS AND PIPES AND COORDINATE WITH OTHER SERVICES TO AVOID CONFLICT WITH EXISTING MECHANICAL, ELECTRICAL, AND LIFE SAFETY SERVICES (HVAC, PIPING, LIGHTING FIXTURES, PIPE HANGERS, ETC.). INFORM THE UNIVERSITY OF ANY RELOCATION OR DOWNTIME OF EXISTING SERVICES PRIOR TO WORK.

DEMOLITION NOTES:

- (N-1) DISCONNECT AND REMOVE EXISTING FUME HOOD DUCT.
 - (N-2) REMOVE AND DISPOSE OF EXISTING CHILLED WATER COIL AND ALL ASSOCIATED CONNECTIONS.
 - (N-3) REMOVE EXISTING PORTION OF EXHAUST DUCT FOR INSTALLATION OF FIRE DAMPER. REFER TO M3.1 FOR FIRE DAMPER REQUIREMENTS.
 - (N-4) REMOVE EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK. REFER TO DRAWING M3.1 FOR PROPOSED RETURN AIR GRILLE LOCATION.
 - (N-5) EXISTING RETURN AIR PLENUM TO BE DEMOLISHED. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
- IDENTIFIED PRICE B1**
- (N-6) REMOVE EXISTING PNEUMATIC THERMOSTAT COMPLETE WITH PNEUMATIC LINES. REMOVE AND CAP PNEUMATIC LINE BACK AT MAIN.
 - (N-7) EXISTING 10"Ø SINGLE DUCT TERMINAL UNIT LOCATED BELOW MIXING BOX TO BE TEMPORARILY REMOVED. DISCONNECT AND REMOVE COLD DECK FLEX DUCTING FOR TEMPORARY MIXING BOX REMOVAL. REFER TO M3.1 FOR MIXING BOX RECONNECTION. COORDINATE UNIT SHUTDOWN WITH UTSC PROJECT MANAGER.
 - (N-8) REMOVE EXISTING MIXING BOX C/W DUCTWORK TO HOT AND COLD DECK, THERMOSTAT AND PNEUMATIC PIPING / CONTROL WIRING. REMOVE AND CAP HOT AND COLD DECK FLEXIBLE DUCTING. REFER TO DRAWING M3.1. COORDINATE UNIT SHUTDOWN WITH UTSC PROJECT MANAGER.

PROJECT
NORTH



01 2025-05-01 ISSUED FOR TENDER & PERMIT CD/UC

NO. DATE REVISION NO. BY



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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

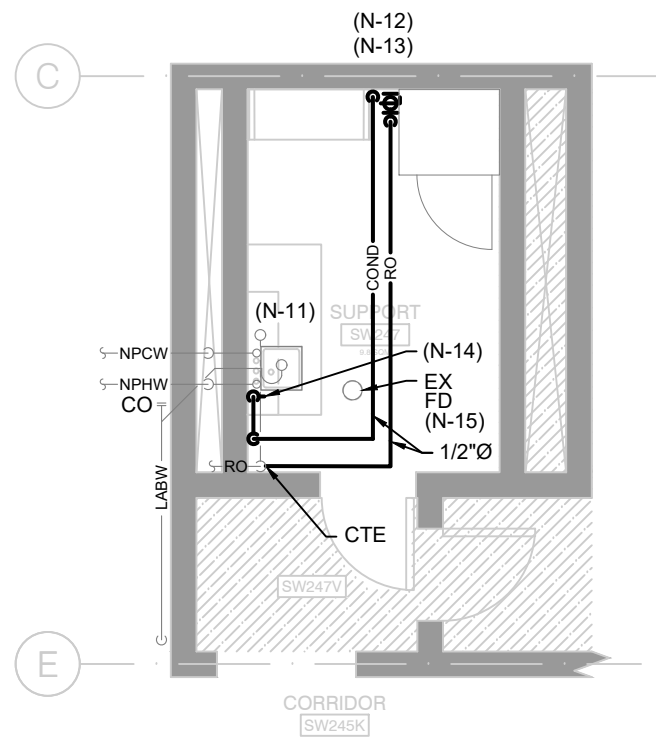
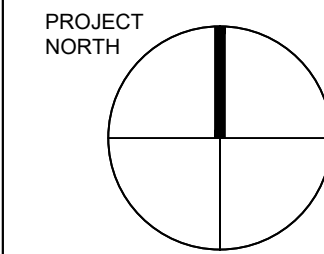
PROJECT #:
DCM2024-09

PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

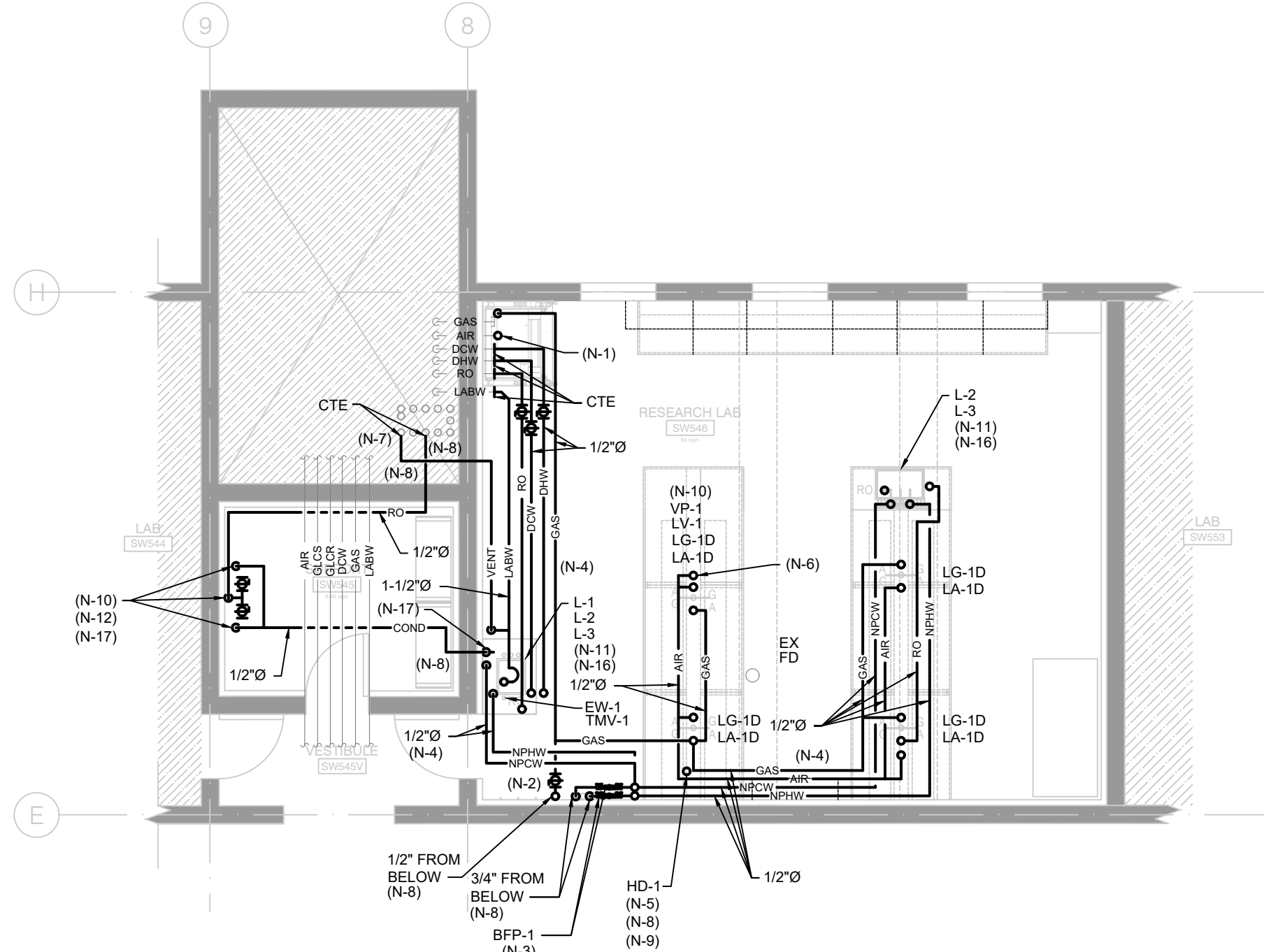
HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC
DRAWING TITLE:

**HVAC DEMOLITION PLAN
SW247, SW526, SW545 & SW546**

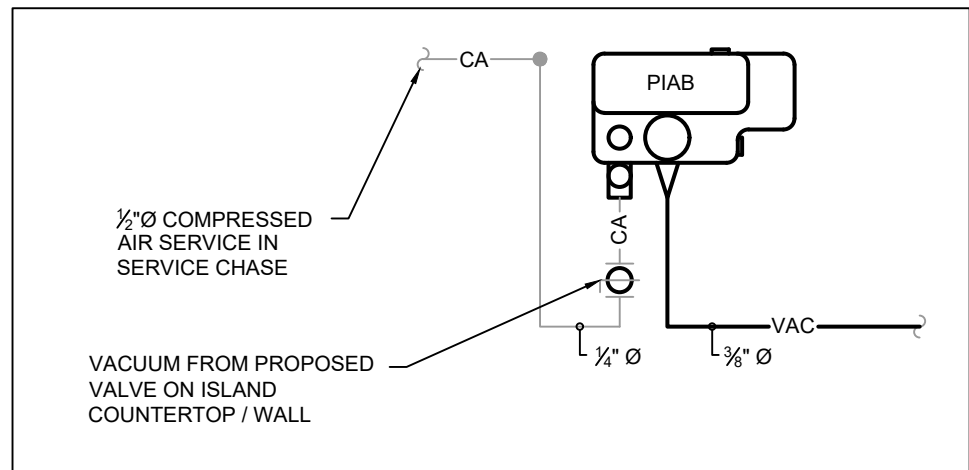
DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO.:
M1.3



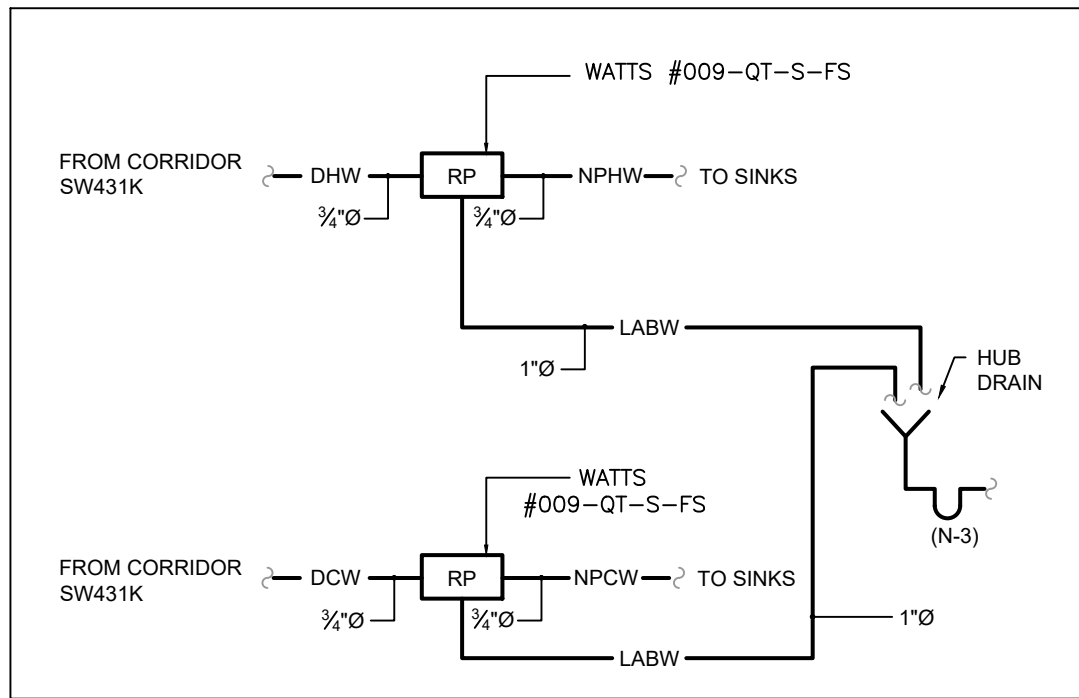
01 **SW247 PROPOSED FLOOR PLAN**
M2.1 1:75



02 **SW545 & SW546 PROPOSED FLOOR PLAN**
M2.1 1:75



03 **PIAB CONNECTION DETAIL**
M2.1 N.T.S.



04 **BACK FLOW PREVENTOR (DCVA) SCHEMATIC**
M2.1 N.T.S.

PLUMBING FIXTURE SCHEDULE			
REF. #	MANUFACTURER	MODEL	TYPE
L-1	WATSAVER	LS100	SENSOR ACTIVATED HAND FAUCET (NPHW & NPCW) C/W MIXING VALVE
L-2	WATSAVER	L2224	LABORATORY FAUCET (NPHW & NPCW)
L-3	WATSAVER	L691VB-BH	FAUCET (RO)
EW-1	WATSAVER	EW1022	EMERGENCY EYEWASH/DRENCH HOSE UNIT, DECK MOUNTED
TMV-1	WATSAVER	TM6020	EYEWASH MIXING VALVE
BFP-1	WATTS	009-QT-S-FS	REDUCED PRESSURE ZONE BACK FLOW PREVENTER EYEWASH MIXING VALVE
LA-1D	WATSAVER	L4200-132SWA	DECK MOUNTED LABORATORY AIR VALVE, DOUBLE OUTLET
LV-1	WATSAVER	L2870-131WSA C/W B0188	DECK MOUNTED LABORATORY VACUUM VALVE C/W QUICK DISCONNECT B0188
LG-1D	WATSAVER	L4200-132SWA	DECK MOUNTED LABORATORY GAS VALVE, DOUBLE OUTLET
VP-1	PIAB	LVH406K6-EK	WALL MOUNTED VACUUM PUMP C/W PISAVE 01.18.100
FD-1	WATTS	FD-202P-FC7-1	FLOOR DRAIN
HD-1	WATTS	FD-100-C-EG	HUB DRAIN
NOTES: (1) MECHANICAL CONTRACTOR TO SUPPLY AND INSTALL FIXTURES AND FITTINGS AS PER ATTACHED UNIVERSITY AND MANUFACTURER SPECIFICATION UNLESS STATED OTHERWISE. (2) REFER TO FLOOR PLANS AND PROVIDE FOR THE QUANTITY SHOWN.			

05 **PLUMBING FIXTURE SCHEDULE**
M2.1 N.T.S.

DRAWING NOTES:

- ALL EXISTING MECHANICAL SERVICES ARE SHOWN IN THEIR APPROXIMATE/BEST ESTIMATED LOCATION. EXACT LOCATION AND CONDITION OF THE SERVICES AND EQUIPMENT TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITION TO THE UNIVERSITY PRIOR TO THE COMMENCEMENT OF WORK.
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- SUPPLY AND INSTALL INSULATION AND JACKETING ON ALL PROPOSED HOT AND COLD WATER SERVICES.
- ALL PROPOSED SERVICES TO BE LABELLED. ALL PROPOSED GAS SERVICES TO BE PAINTED YELLOW.

- ALL PROPOSED CORES ARE TO BE COMPLETE WITH FIRE STOPPING. 3M PLASTIC PIPE DEVICE OR 3M WATER TIGHT FIRE BARRIER SEALANT.
- SUPPLY AND INSTALL BACK FLOW PREVENTERS AT INDICATED POINT. COORDINATED INSTALLATION WITH GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO PROVIDE CONNECTION POINTS TO/FROM WORK BY OTHERS.
- SYSTEM PRESSURES AS FOLLOWS:
GAS: 5-9" W.C.
COMPRESSED AIR: 90 PSI
- ALL EYEWASH MIXING VALVES TO BE COMPLETE WITH CHECK VALVES ON INCOMING NPCW & NPHW SERVICES.
- SUPPLY AND INSTALL ISOLATION BALL VALVES UPSTREAM OF ALL CONNECTIONS TO EXISTING MAIN BRANCHES ASSOCIATED WITH NPCW, NPHW, DCW, DHW AND RO SERVICES.
- CONTRACTOR TO ALLOW FOR PIPE FREEZING IF SHUT OFF VALVES CANNOT BE LOCATED TO ISOLATE AND MAKE FINAL TIE-IN. ALTERNATIVELY, IF SYSTEM IS TO BE SHUT DOWN, CONTRACTOR SHALL ALLOW FOR AFTER-HOURS TO DRAIN SYSTEM (IF REQUIRED) AND TO MAKE FINAL TIE-IN.
- CONTRACTOR SHALL MAKE GOOD INSULATION DAMAGED DURING CONSTRUCTION AND INSULATE ALL EXISTING EXPOSED PIPING (REQUIRING INSULATION) WITHIN PROJECT BOUNDARIES.

NEW WORK NOTES:

- RECONNECT EXISTING 1/2" COMPRESSED AIR LINE TO EXISTING FUME HOOD COMPETE WITH SHUTOFF VALVE.
- SUPPLY AND INSTALL 1/2" EMERGENCY GAS SHUTOFF. LABEL SERVICE. COORDINATE LOCATION WITH BFP STATIONS. ENSURE PROPER CLEARANCES.
- SUPPLY AND INSTALL HUB DRAIN FOR BACKFLOW PREVENTER BYPASS VENTS.
- NON POTABLE, DCW & DHW, RO, GAS, COMPRESSED AIR, LABW AND VENT SERVICES TO BE INSTALLED WITHIN WALL FURRING.
- PROVIDE PRESSURE ACTUATED TRAP PRIMING DEVICE (PRECISION PLUMBING PRODUCTS MODEL P2-500 OR EQUIVALENT TO SERVE HUB DRAIN, HD-1. PROVIDE ISOLATION VALVE AND CONNECT TO NPCW AT SINK.
- CONNECT 1/4" COMPRESSED AIR TO PIAB VACUUM ON COUNTERTOP. REFER TO DETAIL 3 ON DRAWING M2.1.
- CONNECT VENT PIPING TO EXISTING PIPE RISER.
- PROVIDE SCAN AND CORE.
- HUB DRAIN TO BE INSTALLED WITHIN PENINSULA CHASE C/W MESH SCREEN. COORDINATE ACCESS DOOR WITH CASEWORK CONTRACTOR.

- 1/2" RO WATER LINE FOR GROWTH CHAMBERS TO BE RUN WITHIN FURRED OUT WALL APPROXIMATELY 3FT (1M) ABOVE FLOOR. PROVIDE CONNECTION TO EACH PIECE OF EQUIPMENT.
- PROVIDE TIGHT FITTING SINK STRAINER FOR LABORATORY SINK - SIZED TO MATCH.
- PROVIDE ASPEN PUMPS MAXI LIME (OR EQUIVALENT) TO BE LOCATED WITHIN DRAIN PAN OF EACH INCUBATOR. ROUTE COPPER PIPING WITHIN CEILING SPACE TO NEAREST SINK OR FUNNEL FLOOR DRAIN AS SHOWN.
- RUN 1/2" RO PIPING DOWN TO EQUIPMENT TIGHT TO WALL APPROXIMATELY 3FT (1M) ABOVE FLOOR. PROVIDE CONNECTION TO EACH PIECE OF EQUIPMENT.
- RUN 1/2" CONDENSATE PIPING DOWN TIGHT TO WALL TERMINATING WITH INDIRECT CONNECTION AT EXISTING SINK. ROUTE FROM CEILING SPACE AROUND CABINETS. COORDINATE ROUTING WITH UTSC PM.
- PROVIDE BUG SCREEN (CUT TO SIZE) ON THE UNDERSIDE OF EXISTING FLOOR DRAIN COVER.
- CONTRACTOR TO PROVIDE FINAL CONNECTIONS INCLUDING SINK STRAINER TO EPOXY SINKS PROVIDED BY CASEWORK CONTRACTOR.
- RUN 1/2" CONDENSATE PIPING DOWN IN WALL FURRING TERMINATING WITH INDIRECT CONNECTION AT EXISTING SINK. COORDINATE ROUTING WITH UTSC PM.

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PROJECT #:
DCM2024-09

PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

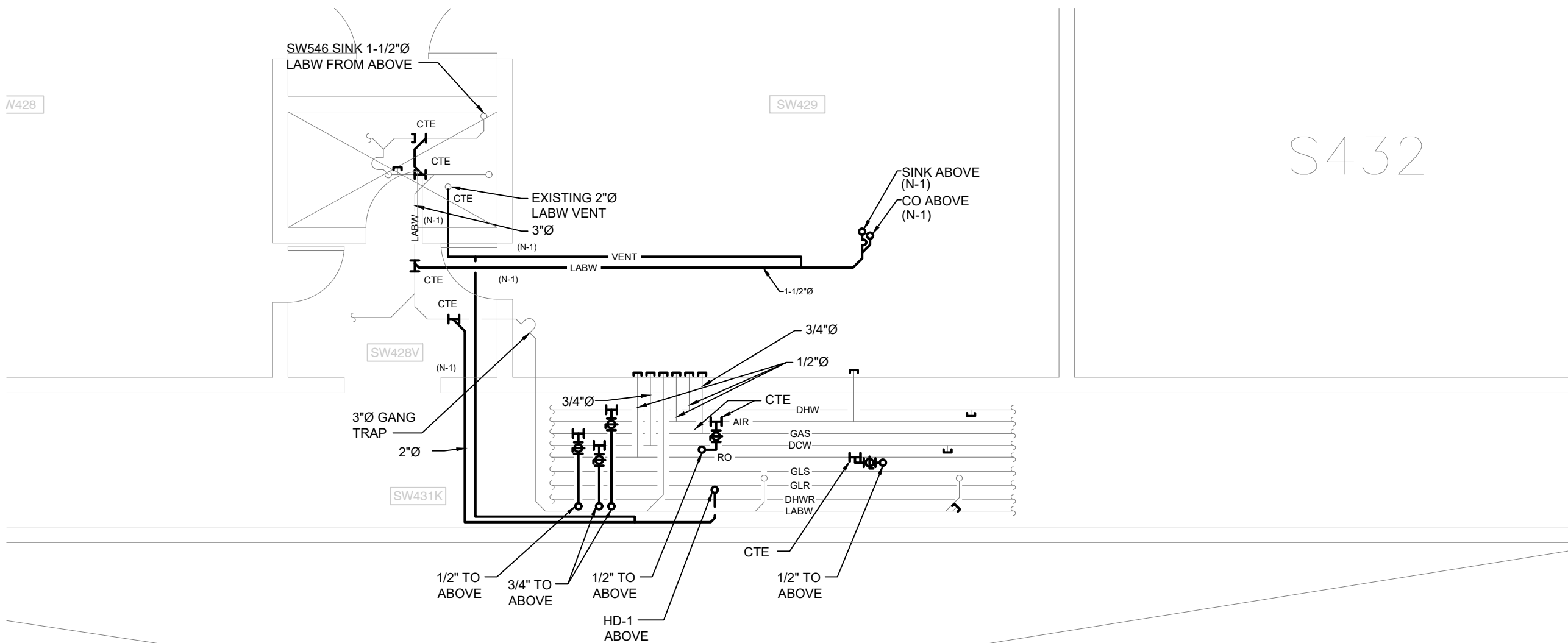
HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC

DRAWING TITLE:
PROPOSED PLUMBING PLAN
SW247, SW545 & SW546

DATE: 2025-04-30
SCALE: AS NOTED

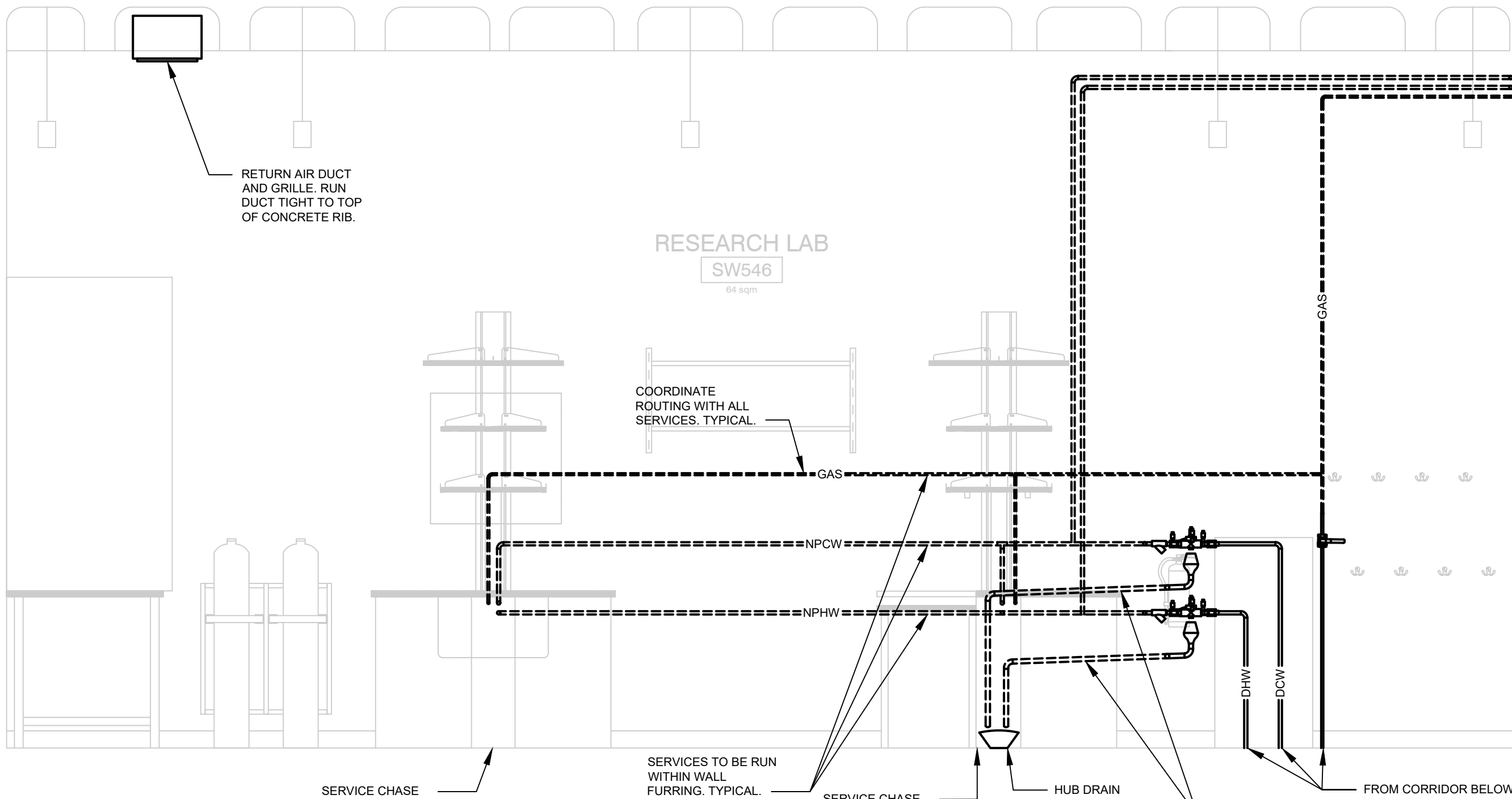
DRAWING NO:
M2.1

N428



S432

01 M2.2 1:75 **SW431K PROPOSED FLOOR PLAN**



02 M2.2 1:75 **SW546 PROPOSED ELEVATION**

DRAWING NOTES:

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- SUPPLY AND INSTALL BACK FLOW PREVENTERS AT INDICATED POINT. COORDINATED INSTALLATION WITH GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO PROVIDE CONNECTION POINTS TO/FROM WORK BY OTHERS.
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GAS: 5-9" W.C.
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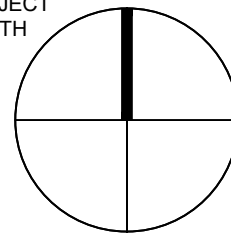
NEW WORK NOTES:

(N-1) SCAN AND CORE.



DESIGN & CONSTRUCTION MANAGEMENT
1265 Military Trail
Toronto Ontario
M1C 1A4

PROJECT
NORTH



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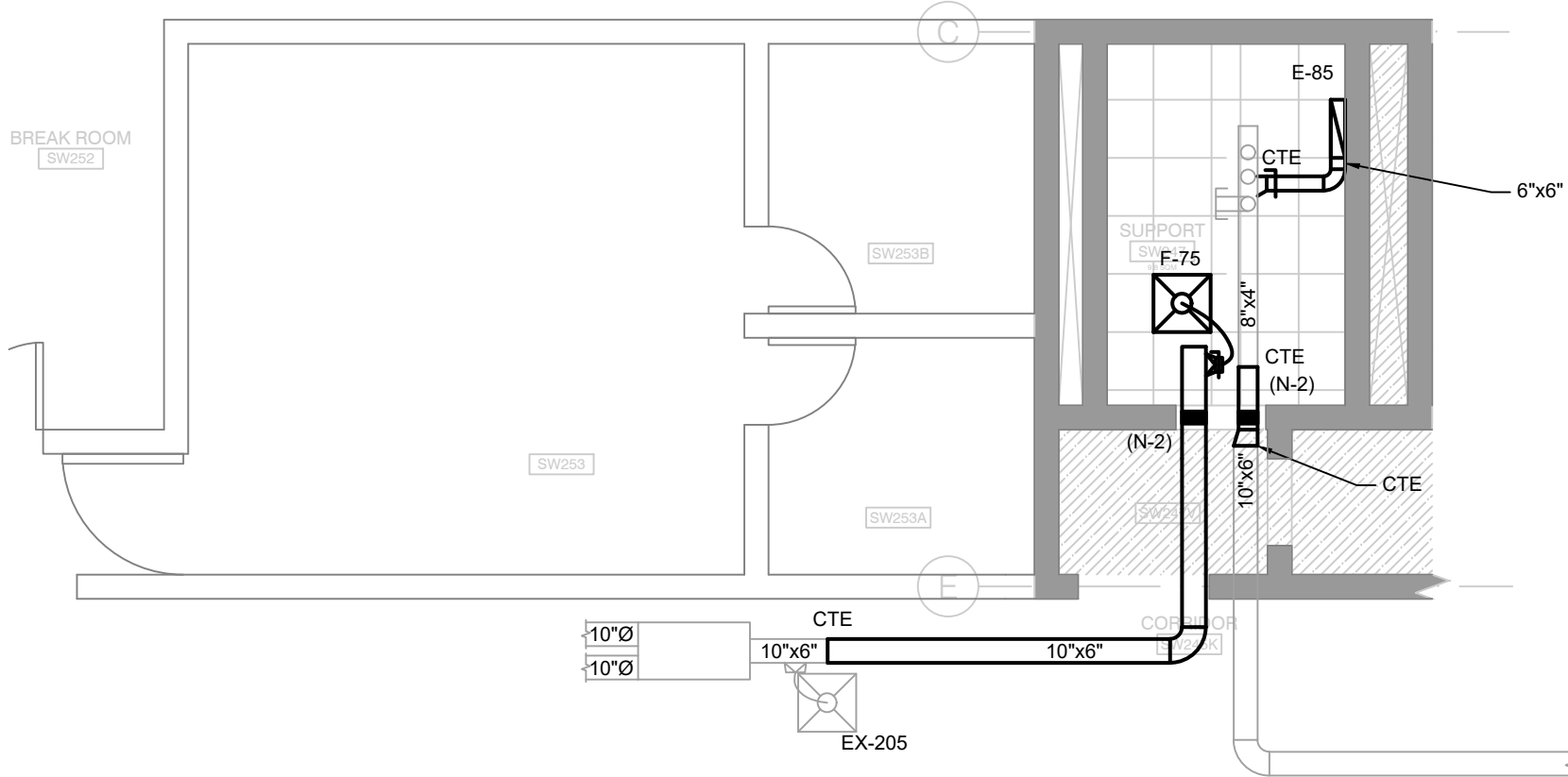
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HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC

DRAWING TITLE:
PROPOSED PLUMBING PLAN
SW245K AND SW431K

DATE:
2025-04-30
SCALE:
AS NOTED
DRAWING NO:
M2.2



01 **SW247 PROPOSED RCP**
M3.1 1:75

DRAWING NOTES:

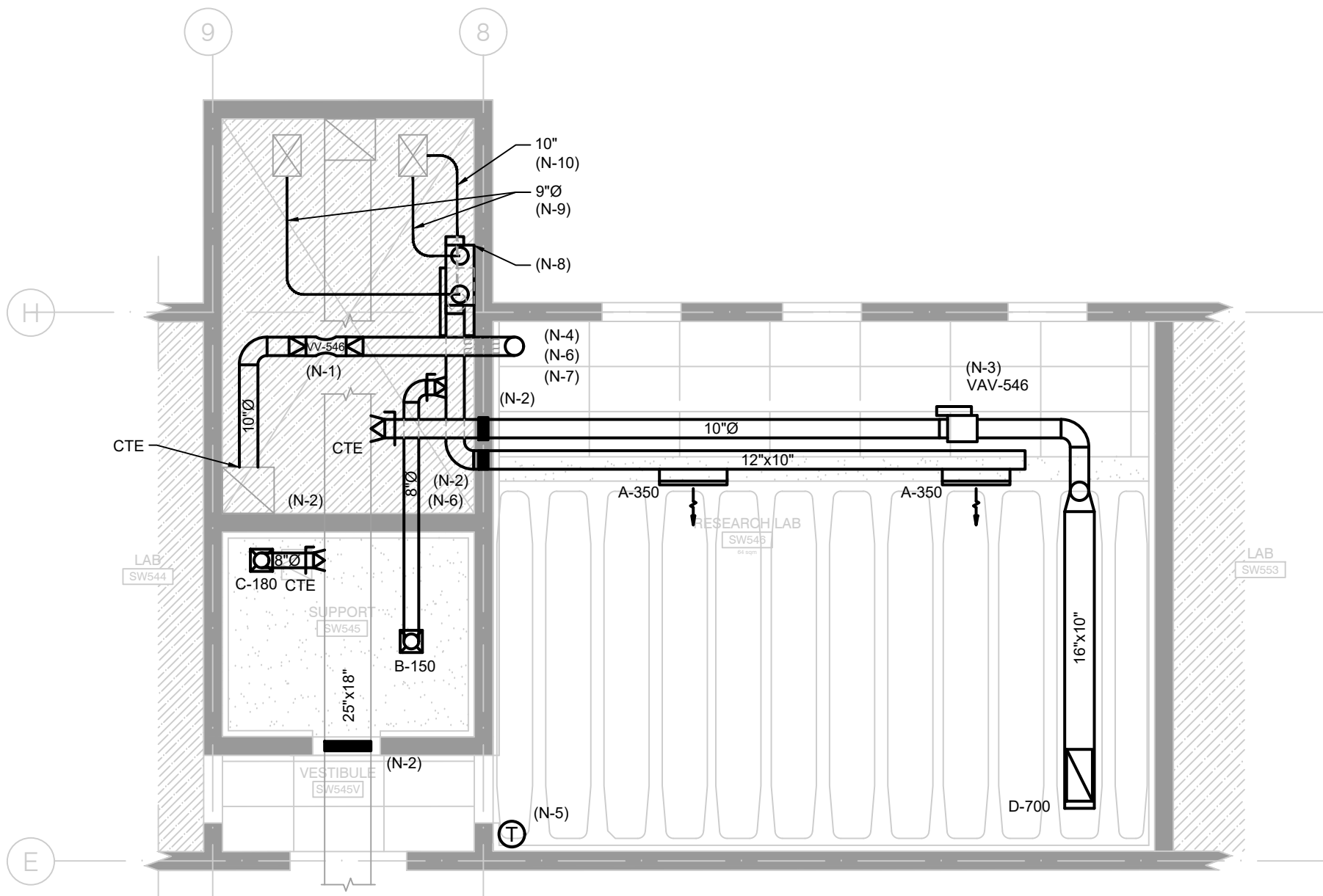
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- SUPPLY AND INSTALL INDICATED SUPPLY AND EXHAUST DUCTS AS PER UNIVERSITY SPECIFICATIONS. CONNECT TO EXISTING SERVICES AND ASSOCIATED EXHAUST FANS. ALLOW 3 DAYS NOTICE FOR SHUTDOWN OF ASSOCIATED AIR HANDLING UNIT.
- ALL PROPOSED CONTROL WIRING BY SIEMENS. ALLOW FOR CONDUIT AS PER ELECTRICAL SPECIFICATION.
- ALL PROPOSED CORES ARE TO BE COMPLETE WITH FIRE STOPPING. 3M PLASTIC PIPE DEVICE OR 3M WATER TIGHT FIRE BARRIER SEALANT.
- ENTIRE PROPOSED HVAC SYSTEM INCLUDING FUME HOOD EXHAUST AND ALL ASSOCIATED FUME HOODS DOWNSTREAM IS TO BE BALANCED BY A CERTIFIED TESTING ADJUSTING AND BALANCING CONTRACTOR:
i) FLOW DIRECTION - MAMOON ALSWAITI (MAMOONS@FLOWDIRECTION.CA/647-629-0605)
ii) COMPLETE SYSTEMS BALANCING - TREVOR KELLY (TREVOR@CSBALANCING.COM/705-760-0390)
A REPORT IS TO BE PROVIDED TO THE OWNER VERIFYING THE PERFORMANCE.

NEW WORK NOTES:

- (N-1) SUPPLY AND INSTALL SIEMENS VENTURI VALVE MODEL # AV-V-110-M-H-ASO AS PER UNIVERSITY AND MANUFACTURER SPECIFICATIONS. SIEMENS TO PROVIDE VENTURI VALVE AND ASSOCIATED TEC BOX. ALL LOW VOLTAGE WIRING BY SIEMENS. ALLOW FOR GRAPHIC AT BAS. REFER TO CONTROLS SPECIFICATION FOR SEQUENCE OF OPERATIONS.
- (N-2) SUPPLY AND INSTALL 1 HOUR RATED FIRE DAMPER.
- (N-3) PROVIDE NEW VAV BOX VAV-546 (EH PRICE MODEL SDV SIZE 10) SIZED FOR 700 CFM COMPLETE WITH CONTROL WIRING. REFER TO CONTROLS SPECIFICATION FOR SEQUENCE OF OPERATION.
- (N-4) PROVIDE 3" FIRE WRAP AND OVERLAP 4". FILL GAP BETWEEN FIRE WRAP AND DRYWALL WITH FIRE RATED CAULKING. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION DETAILS.
- (N-5) CONTRACTOR TO MOUNT NEW DIGITAL THERMOSTAT 4" (1200mm) AFF.
- (N-6) ALLOW FOR SCANNING AND CORING FOR PROPOSED DUCT PENETRATION.
- (N-7) RETROFIT EXISTING FUME HOOD TO ALLOW FOR OPERATION WITH PROPOSED VV546. REFER TO SPECIFICATION FOR CONTROL SEQUENCE.

IDENTIFIED PRICE B1

- (N-8) PROVIDE NEW MIXING BOX EH PRICE MODEL DDM SIZE 9 OR EQUIVALENT DESIGNED FOR 700 CFM. PROVIDE NECESSARY CONTROLS TO OBTAIN TEMPERATURE AND AIRFLOW OUTPUTS AT THE EXISTING BAS (SIEMENS) FOR THE COLD DECK INLET, HOT DECK INLET AND SUPPLY OUTLET. PROVIDE NEW DIGITAL THERMOSTAT COMPLETE WITH WIRING. ALLOW FOR TRANSITIONS AT INLET AND DISCHARGE OF THE MIXING BOX AND INSULATE ANY AFFECTED SUPPLY DUCTWORK. COORDINATE NEW MIXING BOX MOUNTING LACTATION WITH UTSC PROJECT MANAGER.
- (N-9) PROVIDE NEW HOT AND COLD DECK CONNECTION C/W FLEXMASTER 9"Ø INSULATED DUCTS TO SERVE PROPOSED MIXING BOX. COORDINATE UNIT SHUTDOWN WITH UTSC PROJECT MANAGER.
- (N-10) PROVIDE NEW FLEXMASTER 10"Ø INSULATED FLEX DUCT TO REINSTATE EXISTING 10"Ø SINGLE DUCT TERMINAL UNIT.



02 **SW545 & SW546 PROPOSED REFLECTED CEILING PLAN**
M3.1 1:75

GRILLES & DIFFUSERS SCHEDULE

REF. #	MODEL	NECK (INØ)	UNIT SIZE	CORE AREA (sq. ft)	SIZE INXIN	SUPPLY/RETURN
A	510D/IS/F/D/B12	8	—	—	6X38	SUPPLY
B	NAILOR 4070 TYP S(AV)	8	—	—	12x12	SUPPLY
C	NAILOR 4070R TYP S(AV)	8	—	—	12x12	RETURN
D	535D/IS/F/D/B12	—	—	—	28x14	GRILLE
E	80FF-T-BAR	—	—	—	6x24	RETURN
F	LFD/B12/T-BAR/VCR8E	6	—	—	24x24	SUPPLY

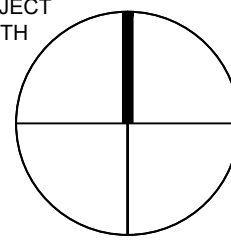
NOTES:

- REFER TO FLOOR PLANS AND PROVIDE FOR THE QUANTITY SHOWN
- ALL 510/535 MODELS TO BE COMPLETE WITH OPPOSED BLADE DAMPER
- ALL MODELS BASED ON EH PRICE UNLESS OTHERWISE NOTED.
- ALL DIFFUSERS AND GRILLES SHALL SUIT THE CEILING CONSTRUCTION.
- PROVIDE MERV 8 FILTER FOR GRILLE MODEL 80FF.

GRILLE & DIFFUSER SCHEDULE

N.T.S.

PROJECT
NORTH



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**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**





























HUMANITIES WING, 1265 MILITARY TRAIL
DRAWN BY: CD CHECKED BY: JC

























DRAWING TITLE:
**PROPOSED HVAC PLAN
SW247, SW545 & SW546**































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

































DRAWING No:
M3.1

SW247, SW526, SW545 & SW546
INTERIOR RENOVATION-SCIENCE WING
UNIVERSITY OF TORONTO SCARBOROUGH

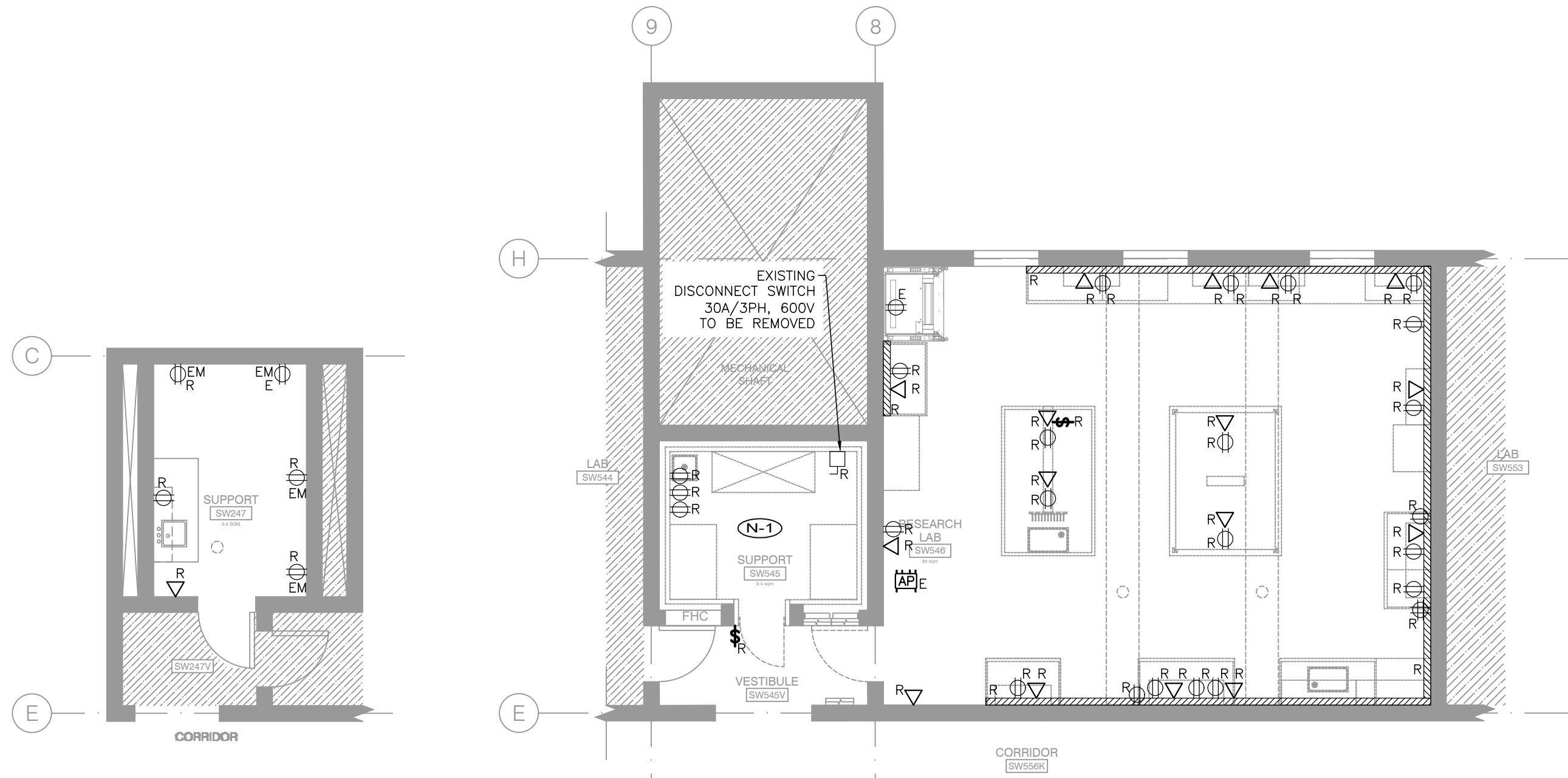
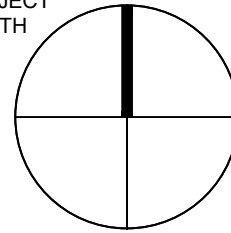
FIRE ALARM LEGEND	
ALARM INITIATING DEVICES	
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR.
	WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR.
	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR.
	COMBINATION CARBON DIOXIDE, CARBON MONOXIDE, AND SMOKE DETECTOR
	BEAM DETECTOR TRANSMITTER.
	BEAM DETECTOR RECEIVER.
	MANUAL PULL STATION
	DOUBLE THROW FIRE ALARM PULLSTATION
	CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR.
	CEILING MOUNTED FIXED TEMPRATURE HEAT DETECTOR.
SUPERVISORY INITIATING DEVICES	
	SUPERVISORY LOW PRESSURE SWITCH. TAMPER SWITCH TO ANNUNCIATE TROUBLE WITH OUT EFFECTING THE INTEGRITY OF THE SUPERVISORY SWITCH.
	SPRINKLER SUPERVISED VALVE. TAMPER SWITCH TO ANNUNCIATE TROUBLE WITH OUT EFFECTING THE INTEGRITY OF THE SUPERVISORY SWITCH.
	INDICATES SMOKE DAMPER. TO BE USED IN CONJUNCTION WITH THE MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE.
ANCILLARY DEVICES	
	WALL MOUNTED DOOR HOLDER
	FLOOR MOUNTED DOOR HOLDER
	'FIRE' DO NOT ENTER SIGN
	VIDEO DISPLAY TERMINAL
	MAIN FIRE ALARM CONTROL PANEL.
	FIRE ALARM ANNUNCIATOR PANEL.
	END OF LINE DEVICE.
SIGNALLARY DEVICES	
	WALL MOUNTED BELL (4", 6", OR 10") USE 4" UNLESS INDICATED OTHERWISE
	WALL MOUNTED HORN, CENTRE TAP SET ON SITE TO MEET OBC 2006
	WALL MOUNTED SPEAKER, CENTRE TAP SET ON SITE TO MEET OBC 2006
	CEILING MOUNTED SPEAKER, CENTRE TAP SET ON SITE TO MEET OBC 2006
	CEILING MOUNTED STROBE LIGHT, CANDELA VALUE SPECIFIED CAN/ULC-S526-06
	WALL MOUNTED STROBE LIGHT, CANDELA VALUE SPECIFIED CAN/ULC-S526-06
	WALL MOUNTED HORN/STROBE, CENTRE TAP SET ON SITE TO MEET OBC 2006
	CEILING MOUNTED SPEAKER/STROBE, CENTRE TAP SET ON SITE TO MEET OBC 2006
NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.	

LIGHTING LEGEND	
	EXISTING CEILING MOUNTED LUMINAIRE TO REMAIN
	NEW CEILING MOUNTED LUMINAIRE OR IN RELOCATED POSITION
	EMERGENCY CEILING MOUNTED LUMINAIRE ON EMERGENCY POWER
	EXISTING CEILING MOUNTED LUMINAIRE TO BE REMOVED
	NEW WALL MOUNTED LUMINAIRE
	TRACK LIGHT C/W NUMBER OF FIXTURES AND/OR PENDANTS AS SHOWN
	CEILING MOUNTED LUMINAIRE
	WALL SCONCE
	LIGHT STANDARD - NUMBER OF HEADS AS SHOWN
	SINGLE POLE 120V LIGHT SWITCH
	GANGED LIGHT SWITCHES UNDER A SINGLE COVERPLATE
	3 WAY OR 4 WAY LINE VOLTAGE LIGHT SWITCH AS SHOWN
	LOW VOLTAGE LIGHT SWITCH
	LOW VOLTAGE KEYED LIGHT SWITCH
	DIMMER TYPE TO SUIT LOAD
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL SWITCH OCCUPANCY SENSOR (WALL MOUNTED) 'X'=IR(INFRARED), US(ULTRA SONIC), DT(DUAL TECHNOLOGY)
	WALL MOUNTED EMERGENCY SINGLE OR DOUBLE HEAD AS SHOWN
	CEILING MOUNTED EMERGENCY SINGLE OR DOUBLE HEAD AS SHOWN
	RECESSED CEILING MOUNTED REMOTE SINGLE HEAD EMERGENCY LIGHT.
	EMERGENCY LIGHTING BATTERY UNIT
	EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN
	EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED
FIXTURE SCHEDULE	
'A'	AXIS BEAM 4 RECESSED T-BAR BBRLD-1000-90-35-FL-120-DP-1-TB15 LENGTH AS SHOWN ON DRAWINGS
'B'	AXIS BEAM 4 PENDANT TB4DLED-750-90-35-SO-120-DP LENGTH AS SHOWN ON DRAWINGS
'C'	AXIS BEAM 4 SURFACE MOUNT TB4SLED-1200-90-35-SO-120-DP-1-S LENGTH AS SHOWN ON DRAWINGS
NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.	

POWER LEGEND	
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED QUAD RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP CSA 5-20R
	FLUSH SURFACE MOUNTED QUAD RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R
	CEILING MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
	FLOOR MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP CSA 5-15R
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP CSA 5-20R
	FLOOR MOUNTED COMBINATION POWER/COMMUNICATION RECEPTACLE
	FLOOR POKE THROUGH COMBINATION POWER/COMMUNICATION RECEPTACLE
	ELECTRICAL RACEWAY C/W NUMBER OF RECEPTACLES AS SHOWN
	FLUSH SURFACE MOUNTED SINGLE RECEPTACLE, TYPE AS SPECIFIED
	FLUSH MOUNTED SINGLE TUB PANEL(RATING AS NOTED ON PANEL SCHEDULE)
	SURFACE MOUNTED SINGLE TUB PANEL(RATING AS NOTED ON PANEL SCHEDULE)
	METERING CABINET, 1200x1200x300mm
	SINGLE PHASE DIRECT CONNECTION
	SINGLE PHASE DIRECT CONNECTION C/W DISCONNECT
	THREE PHASE DIRECT CONNECTION
	THREE PHASE DIRECT CONNECTION C/W DISCONNECT
	DISCONNECT
	COMBINATION MANUAL STARTER WITH INTERGAL DISCONNECT
	COMBINATION STARTER WITH INTEGRAL DISCONNECT
	TRANSFORMER (SIZE NOTED ON DRAWING)
	GROUND BAR
	JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	CLOCK WALL MOUNTED
	PUSH BUTTON
	AUTOMATIC DOOR OPENER
	USB OUTLET
	DENOTES: 'E' EXISTING TO REMAIN 'RR' REMOVE AND RELOCATE 'R' REMOVE 'WP' WEATHER PROOF
NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.	

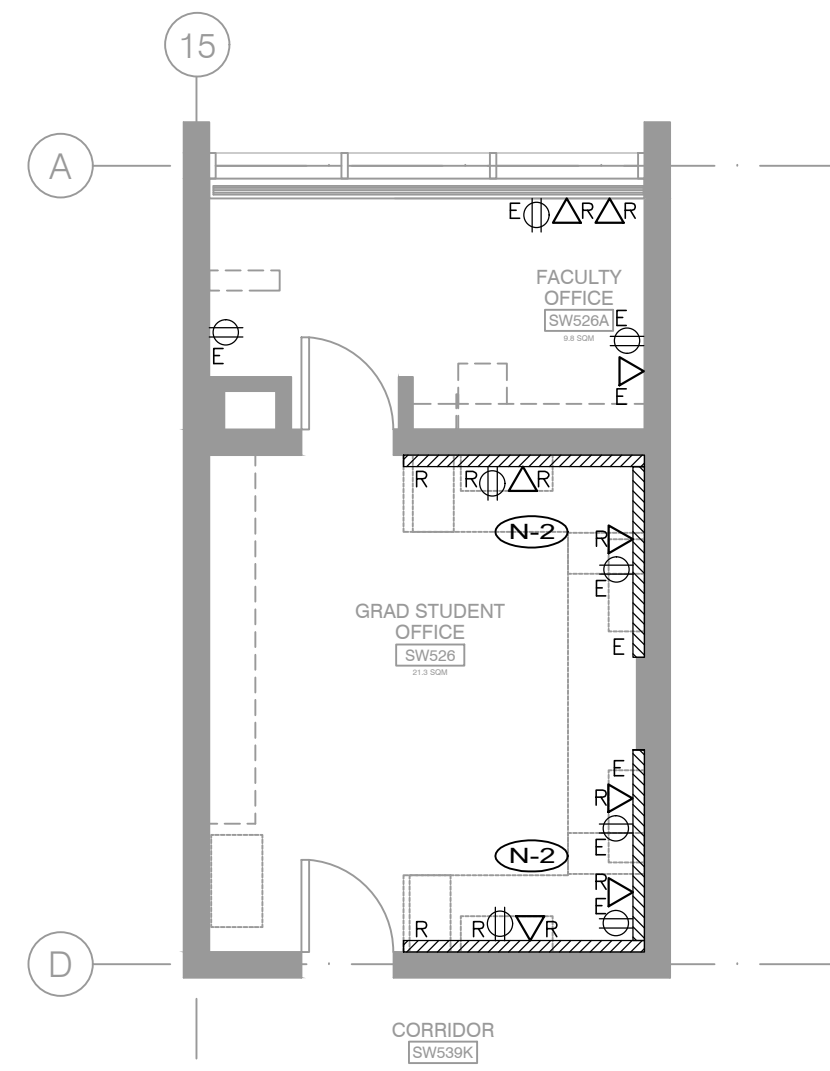
SECURITY LEGEND	
	MAGNETIC LOCK
	ELECTRIC STRIKE
	DOOR ALARM CONTACT
	CARD READER
	INTERCOM
	REQUEST TO EXIT MOTION
	MOTION SENSOR
	WALL MOUNTED SECURITY MOTION SENSOR
	CEILING MOUNTED SECURITY 360° MOTION SENSOR
	'PTZ' - Pan Tilt Zoom 'CCTV' - Closed Circuit TV DENOTES: 'IPCAM' - Network Cam
	BREAK GLASS SENSOR CEILING
	BREAK GLASS SENSOR WALL
	PANIC BUTTON, TO BE FIXED WITHIN MILLWORK
	SECURITY KEY PAD
	CODE BLUE - AREA OF ASSISTANCE PANEL
	SUITE SECURITY PANEL
	ELECTRIC LOCKSET 'TYPICAL' AS PER DOOR SCHEDULE
	ELECTRIC STRIKE 'TYPICAL' AS PER DOOR SCHEDULE
COMMUNICATIONS LEGEND	
	WALL MOUNTED DATA NETWORKING OUTLET
	FLOOR MOUNTED DATA NETWORKING OUTLET
	CEILING MOUNTED DATA NETWORKING OUTLET
	WALL MOUNTED VOICE OUTLET
	FLOOR MOUNTED VOICE OUTLET
	CEILING MOUNTED VOICE OUTLET
	WALL MOUNTED DATA & VOICE OUTLET
	ONE WIREMOLD MOUNTED COMMUNICATIONS OUTLET. CABLE TYPE AS PER SPECIFICATION.
	VGA CABLE OUTLET
	COAXIAL CATV OUTLET
	HDMI CABLE OUTLET
	NETWORK SWITCH BY 'OWNER'
	WIRELESS ACCESS POINT (PROVIDE TWO DATA DROPS IN CEILING SPACE)
	PULL BOX (SIZE SPECIFIED ON DRAWING)
	MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	CABLE TRAY
NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.	

PROJECT
NORTH



01
E1.1 1:75
SW247 EXISTING FLOOR PLAN

02
E1.1 1:75
SW545 & SW546 EXISTING FLOOR PLAN



03
E1.1 1:75
SW526 & SW526A EXISTING FLOOR PLAN

GENERAL NOTES:

- FOLLOW ALL HEALTH AND SAFETY PROCEDURES AS MANDATED BY UNIVERSITY OF TORONTO EHS DEPARTMENT WHILE WORKING ON SITE (I.E. CONFINED SPACES, FALL PROTECTION, PORTABLE LADDERS, ETC) REFER TO <http://www.ehs.utoronto.ca/resources/mainindex.htm> FOR ADDITIONAL INFORMATION.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILS, FINISHES AND COLOURS.
- REMOVE ALL EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, WIRING AND EQUIPMENT TO SUIT NEW CONSTRUCTION. CUT BACK AND CAP CONDUITS AND ELECTRICAL OUTLETS NOT BEING USED, SO THAT FINISHED WORK PRESENTS A NEAT AND CLEAN APPEARANCE. DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WIRING AND CONDUITS, AND MAKE EXISTING SYSTEM SAFE. BLANK OFF OPENINGS IN PANELS OR BOXES FROM REMOVED CONDUITS OR DUCTS.
- ALL BALLASTS ARE TO BE REMOVED FROM THE FIXTURE PRIOR TO DISPOSAL AND BE CHECKED FOR PCB CONTAINING MATERIALS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEPARATION AND DISMANTLING OF ALL EXISTING FLUORESCENT LIGHTING CONTAINING PCB BALLASTS. THE ELECTRICAL CONTRACTOR SHALL PUT THE PCB BALLASTS IN THE DEDICATED BIN IN SW200P.
- AS PART OF DEMOLITION CONTRACT, THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LIGHTING, SWITCHES AND ASSOCIATED WIRING NOT REQUIRED BACK TO ELECTRICAL PANEL. VISIT SITE TO DETERMINE THE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LIGHT LOCATIONS IN REFERENCE TO THE PROPOSED DUCTING AS SHOWN ON MECHANICAL DRAWINGS.
- ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM LIGHTING PANEL FOR ALL LIGHTING FIXTURES ON NORMAL POWER. ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM EMERGENCY PANEL FOR ALL LIGHTING FIXTURES ON EMERGENCY POWER.
- ALL EMERGENCY LOADS TO BE FED FROM EMERGENCY PANEL, AND ALL NORMAL LOADS TO BE FED FROM NORMAL PANEL.
- AS PART OF THE DEMOLITION CONTRACT, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL FLOOR, COLUMN, CEILING, ISLAND AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT THE NEW LAYOUT AND MAKE SAFE. THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL COMMUNICATIONS/FIRE ALARM AND SECURITY DEVICES, CABLING AND CONDUIT NOT REQUIRED AND MAKE SAFE. REMOVE ASSOCIATED WIRING BACK TO THE ELECTRICAL PANEL OR IT RACK. VISIT SITE TO DETERMINE THE EXACT REQUIREMENTS.
- ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN AND RELOCATE EXISTING SERVICES WHICH PASS THROUGH THE AREA OF RENOVATION OR DEMOLITION, BUT FEEDS ITEMS LOCATED OUTSIDE OF THESE AREAS. REWIRE DEVICES TO ORIGINAL CIRCUITS.
- PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES AND OTHER ITEMS NECESSARY FOR COMPLETE RELOCATION OF DEVICES, FIXTURES AND EQUIPMENT.
- CONNECTIONS TO EXISTING SYSTEMS TO BE MADE AT APPROVED TIMES. OBTAIN WRITTEN APPROVAL RECORDING TIMES WHEN CONNECTIONS CAN BE MADE. ARRANGE WORK SO THAT PHYSICAL ACCESS TO EXISTING BUILDINGS IS NOT UNDULY INTERRUPTED. REQUEST FOR SHUT-DOWNS TO BE SUBMITTED IN WRITING BY THE CONTRACTOR WITH A MINIMUM OF TWO-WEEK NOTICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING SYSTEMS WHEN MAKING CONNECTIONS.
- ALL ELECTRICAL CONDUITS THROUGH WALLS MUST BE COMPLETELY SEALED TO ELIMINATE THEIR POTENTIAL USE AS ROUTES FOR VERMIN OR AEROSOLS.
- COORDINATE ELECTRICAL CONNECTION REQUIREMENTS FOR THE EQUIPMENT ON SITE WITH SHOP DRAWINGS, PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR TO REVISE AND UPDATE PANELBOARD SCHEDULES AFFECTED BY WORK.
- WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOOR, PROVIDE LISTED FIRE STOPPING MATERIAL WHICH BEARS LABEL OF CSA AND ULC AND MAINTAIN SAME FIRE RATING AS THAT OF THE PENETRATED BUILDING COMPONENT.

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND EXAMINING ALL CONDITIONS AFFECTING THE PROPOSED INSTALLATION. NO CONSIDERATION WILL BE GIVEN FOR EXTRA COSTS ARISING FROM FAILURE TO VISIT SITE.
- USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTOR OR VIBRATING EQUIPMENT IN DRY AREAS, CONNECTION TO RECESSED LIGHTING FIXTURES WITHOUT A PREWIRED OUTLET BOX, CONNECTION TO SURFACE OR RECESSED LIGHTING FIXTURES AND WORK IN MOVABLE METAL PARTITIONS.
- USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT IN DAMP, WET OR CORROSIVE LOCATIONS. USE ONLY LIQUID TIGHT FITTINGS WHEN USING LIQUID TIGHT FLEXIBLE METAL CONDUIT. LIQUID TIGHT FLEXIBLE CONDUIT TO HAVE A JACKET WITH AN FT6 RATING WHEN USED IN PLENUMS OTHERWISE PROVIDE A MINIMUM FT4 RATING.
- ELECTRICAL CONTRACTOR TO RE-INSTALL EXISTING ITEM IN ROOM. COORDINATE EXACT REQUIREMENTS WITH UTSC PROJECT MANAGER AND MECHANICAL DESIGNER.
- REUSE CIRCUITS THAT BECOME AVAILABLE AS A RESULT OF DEMOLITION.
- THE SECURITY SYSTEM INSTALLED MUST MATCH THE EXISTING BUILDING SYSTEM. SUPPLY AND INSTALL HONEYWELL SECURITY DEVICES THAT ARE POE (POWER OVER ETHERNET). ALL POE DEVICES RUN BACK TO IT ROOM. PROVIDE PLENUM RATED CABLES TO RUN THROUGH THE CABLE TRAY. FOR ANY OWNER APPROVED NOT POE DEVICES, RUN CABLES BACK TO MAIN SECURITY PANEL. CONDUIT TO BE INSTALLED FROM DEVICE TO CABLE TRAY.
- ALL FIRE ALARM CIRCUITS TO RUN BACK TO THE SIEMENS PANEL.
- EXISTING FIRE ALARM EVAC SPEAKER IN RELOCATED POSITION TO BE RECONNECTED TO EXISTING SIGNAL CIRCUIT, MODIFY EXISTING CONDUIT & WIRE AS REQUIRED TO SUIT RELOCATED POSITION.
- FIRE DEPARTMENT SHALL BE NOTIFIED PRIOR TO SHUTTING DOWN ANY FIRE PROTECTION SYSTEM AND NOTIFIED AGAIN WHEN THE SYSTEM IS RETURNED TO NORMAL OPERATION. TO BE COORDINATED WITH DCM PROJECT MANAGER 5 DAYS PRIOR TO SHUT DOWN.
- ELECTRICAL CONTRACTOR TO ALLOW FOR FIRE ALARM PANEL SUPERVISION DURING TIME OF FIRE ALARM BYPASS DURING INSTALLATION.
- ALL FIRE DETECTION DEVICES TO BE SUPPLIED AND VERIFIED BY SIEMENS CANADA LTD, BUILDING TECHNOLOGIES DIVISION CONTACT GERRY THIBEAULT MOBILE: 416-617-3786 gerry.thibault@siemens.com.
- ABATEMENT NOTES (SECTION REQUIRED BY ASBESTOS REMOVAL OR SIMILAR SUBSTANCE):
- ALL MATERIALS IDENTIFIED AS ASBESTOS CONTAINING MATERIAL (ACM) TO BE REMOVED. REMOVAL OF ACM TO BE CARRIED OUT IN CONFORMANCE WITH THE MINISTRY OF LABOUR'S PROCEDURES AS DESCRIBED IN THE ONTARIO REGULATION 278/05 DESIGNATED SUBSTANCE - ASBESTOS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS, SERVING AS PART OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND UNIVERSITY OF TORONTO PROCEDURES.
- ABATEMENT CONTRACTOR TO ENSURE ALL TYPE II REMOVAL PROCEDURES ARE ADHERED TO INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- GENERAL CONTRACTOR, ABATEMENT SUBCONTRACTOR TO COORDINATE ABATEMENT PLAN AND PROCEDURES WITH UNIVERSITY OF TORONTO, DESIGN AND CONSTRUCTION MANAGEMENT PROJECT MANAGER AND UNIVERSITY OF TORONTO ENVIRONMENTAL HEALTH AND SAFETY OFFICER MINIMUM 5 DAYS IN ADVANCE OF WORK TO OCCUR.
- GENERAL CONTRACTOR, ABATEMENT SUBCONTRACTOR TO COORDINATE HVAC SHUT DOWN WITH UNIVERSITY OF TORONTO, DESIGN AND CONSTRUCTION MANAGEMENT PROJECT MANAGER MINIMUM 5 DAYS IN ADVANCE OF WORK TO OCCUR.
- ABATEMENT REMOVAL TO OCCUR FROM 10:00 PM-6:00 AM, MONDAY - FRIDAY. SITE PREPARATION CAN OCCUR DURING REGULAR WORKING HOURS.
- AREA OF REMOVAL TO BE FULLY TENTED AND UNDER NEGATIVE PRESSURE BY MEANS OF EXHAUST FAN COMPLETE WITH HEPA FILTER.
- PROPER ABATEMENT NOTIFICATION TO BE POSTED IN VISIBLE AREAS OF AREA OF WORK.
- THE CONSTRUCTOR IS REQUIRED TO MEET WITH UNIVERSITY OF TORONTO PROJECT MANAGER AND ENVIRONMENTAL HEALTH AND SAFETY OFFICER PRE-ABATEMENT SITE MEETING TO COORDINATE SITE SPECIFIC ABATEMENT CONTAINMENT STRATEGIES AND PROCEDURE.
- FOR FURTHER INFORMATION REFER TO:
<https://ehs.utoronto.ca/our-services/occupational-hygiene-safety/asbestos-management-program/>

DRAWING NOTES:

- N-1** EXISTING COLD ROOM TO BE REMOVED. DISCONNECT ALL EXISTING POWER CONNECTIONS AND REMOVE ALL ASSOCIATED CONDUITS AND WIRING BACK TO SOURCE AND MAKE SAFE. ALLOW FOR ALL ASSOCIATED COSTS.
- N-2** PARTIAL RACEWAY TO BE REMOVED. ELECTRICAL CONTRACTOR SHALL UTILIZE AND REWORK EXISTING RACEWAY, AND PROVIDE NEW OUTLET C/W STAINLESS STEEL COVER PLATE TO SUIT NEW DESIGN. REFER TO DRAWING E2.1. BANK COVERS TO BE PROVIDED TO REPLACE OPENING FOR REMOVED DATA OUTLET.

Notes:
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SCARBOROUGH**
1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

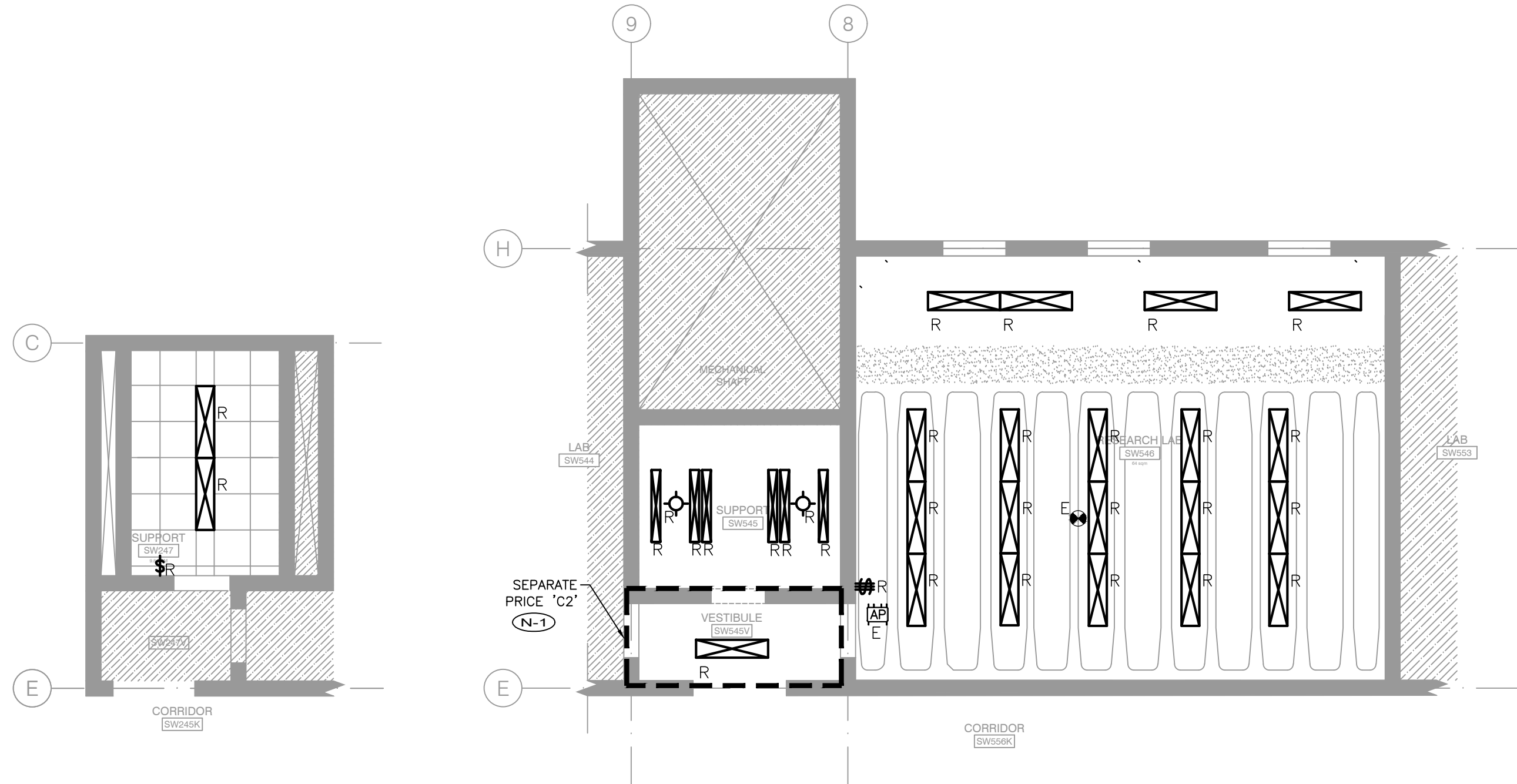
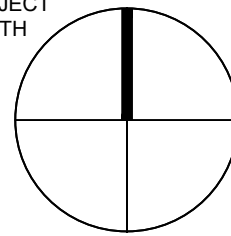
PROJECT #:
DCM2024-09

PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

SCIENCE WING, 1265 MILITARY TRAIL
DRAWN BY: SE CHECKED BY: HY
DRAWING TITLE:
**2ND & 5TH FLOORS-
EXISTING FLOOR PLAN**

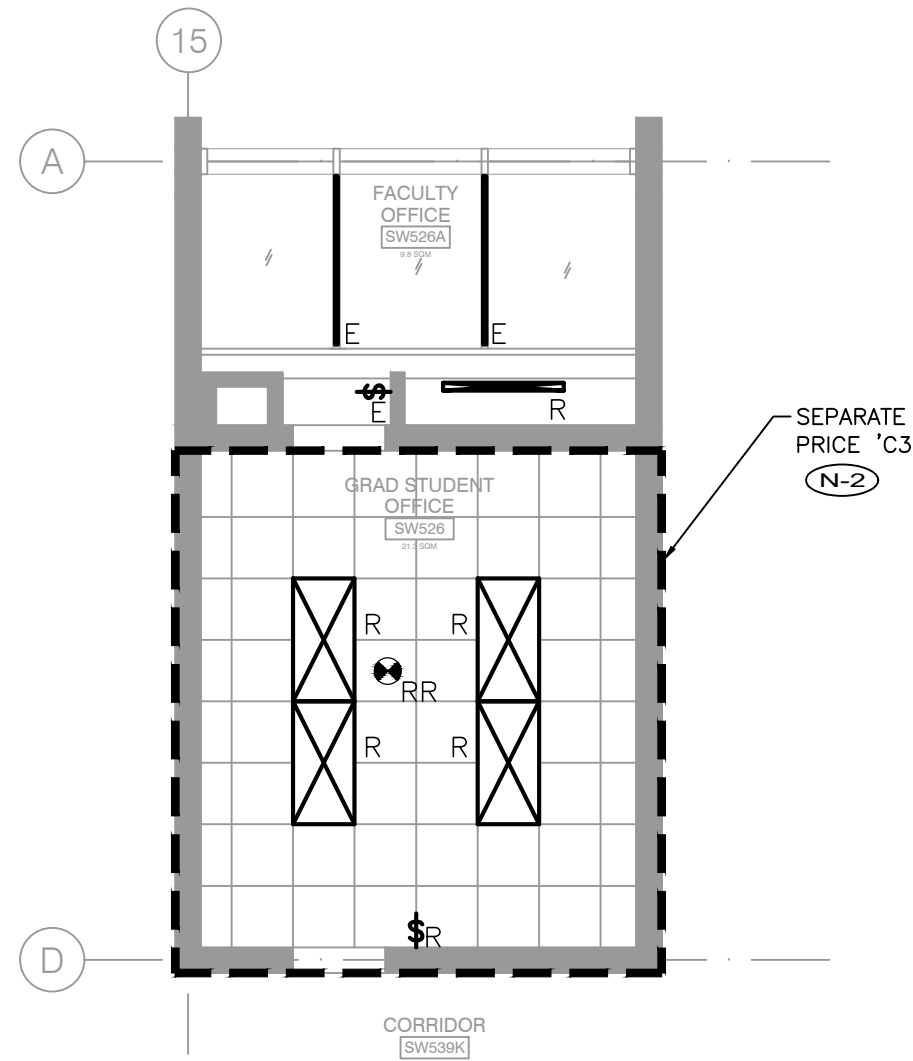
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PROJECT
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01
E1.2 1:75 **SW247 EXISTING RCP PLAN**

02
E1.2 1:75 **SW545 & SW546 EXISTING RCP PLAN**



03
E1.2 1:75 **SW526 & SW526A EXISTING RCP PLAN**

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- EXISTING FIRE ALARM EVAC SPEAKER IN RELOCATED POSITION TO BE RECONNECTED TO EXISTING SIGNAL CIRCUIT, MODIFY EXISTING CONDUIT & WIRE AS REQUIRED TO SUIT RELOCATED POSITION
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- FOR FURTHER INFORMATION REFER TO:
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DRAWING NOTES:

- N-1** SEPARATE PRICE C2: FOR REMOVAL OF EXISTING LIGHT FIXTURE, AND INSTALLATION OF NEW LIGHT FIXTURE (TYPE 'A').
- N-2** SEPARATE PRICE C3: FOR 1- REMOVAL OF EXISTING LIGHT FIXTURES, AND INSTALLATION OF NEW LIGHT FIXTURES (TYPE 'A'). 2- REMOVAL AND INSTALLATION OF FIRE ALARM SMOKE DETECTOR AND PROVIDE VERIFICATION REPORT. 3- ALLOCATE FOR NEW 0-10V WIRING TO THE LIGHT SWITCH LOCATION. THE NEW LIGHT SWITCH TO BE LUTRON DIVA 0-10V CONTROL (CAT.# DVSTV- 8A) C/W STAINLESS STEEL (SS) COVER PLATE. PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY OPERATIONAL SYSTEM.

Notes:

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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #:
DCM2024-09

PROJECT TITLE:
SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

SCIENCE WING, 1265 MILITARY TRAIL

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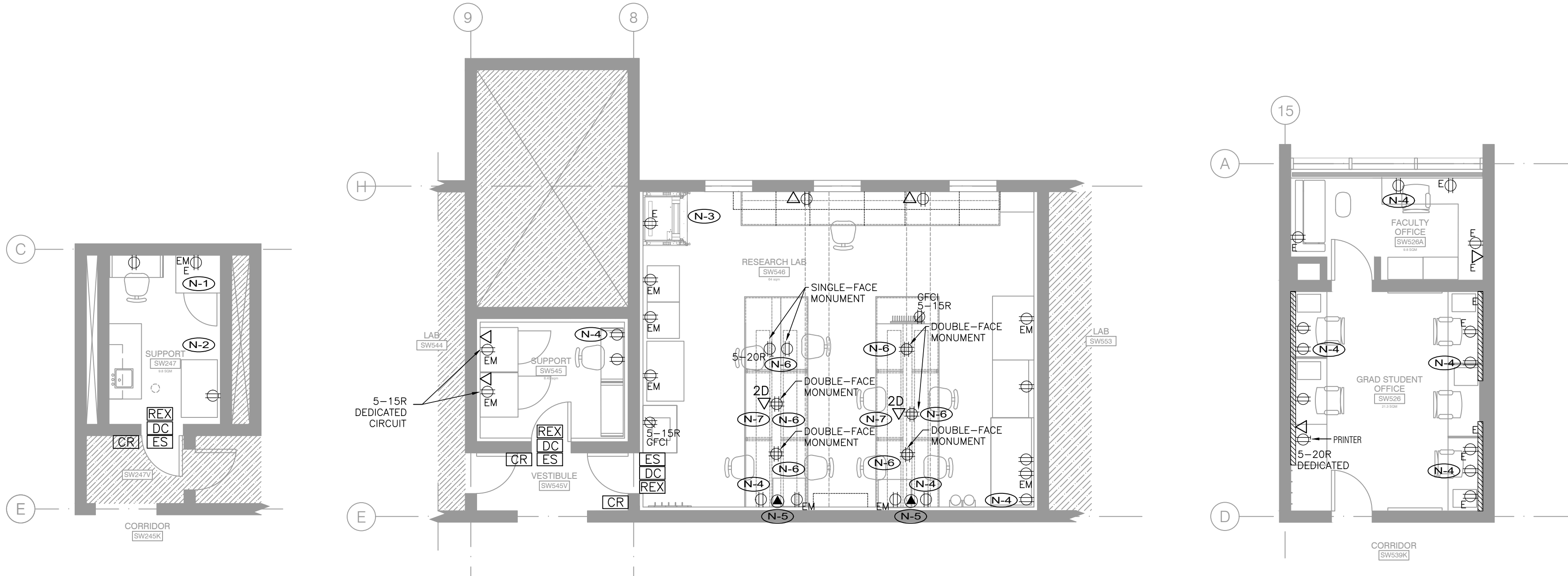
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DRAWING TITLE:

2ND & 5TH FLOORS-
EXISTING RCP PLAN

DATE:
2025-05-01
SCALE:
AS NOTED

DRAWING NO:
E1.2



01
E2.1
SW247 PROPOSED FLOOR PLAN
1:75

02
E2.1
SW545 & SW546 PROPOSED FLOOR PLAN
1:75

03
E2.1
SW526 & SW526A PROPOSED FLOOR PLAN
1:75

GENERAL NOTES:

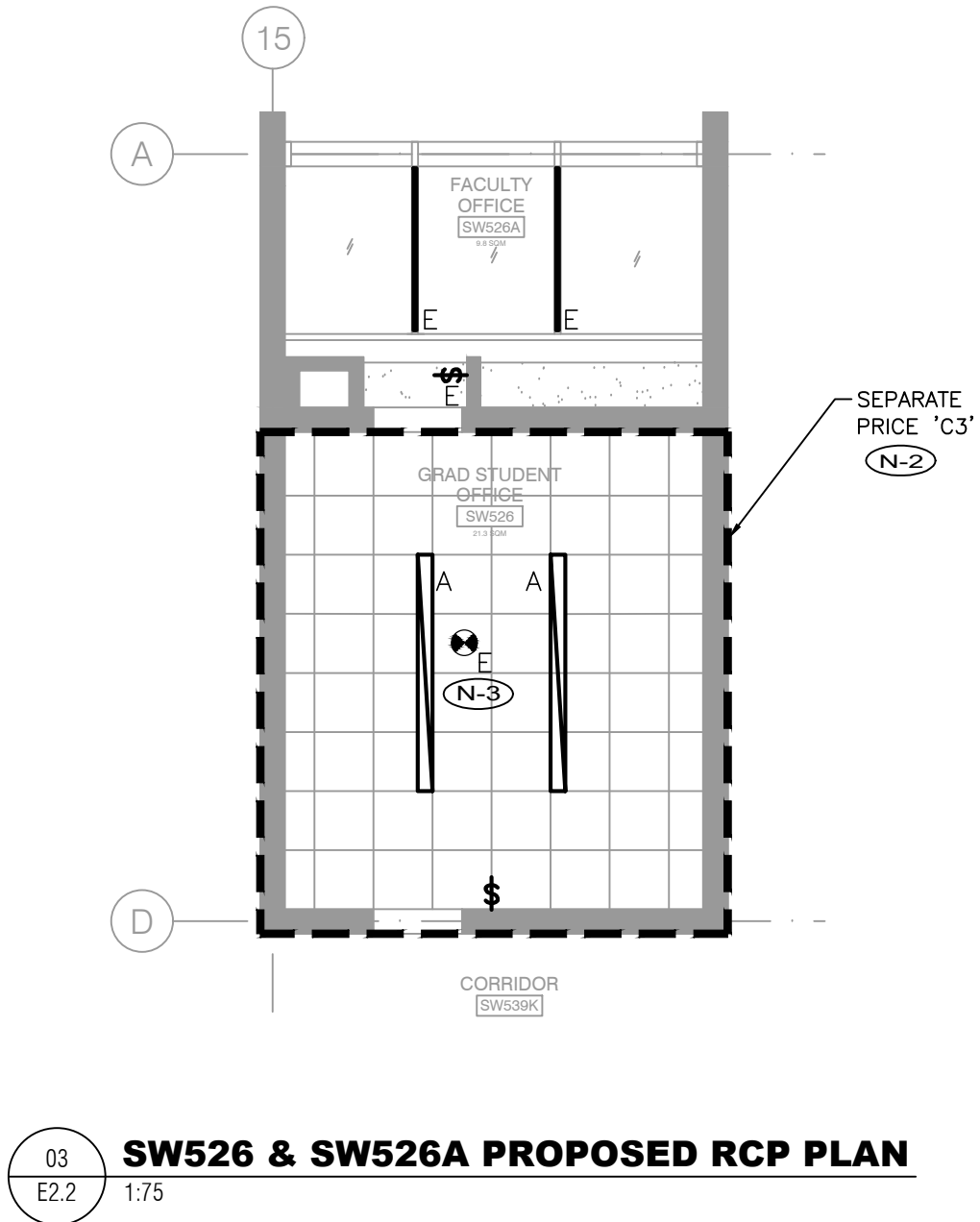
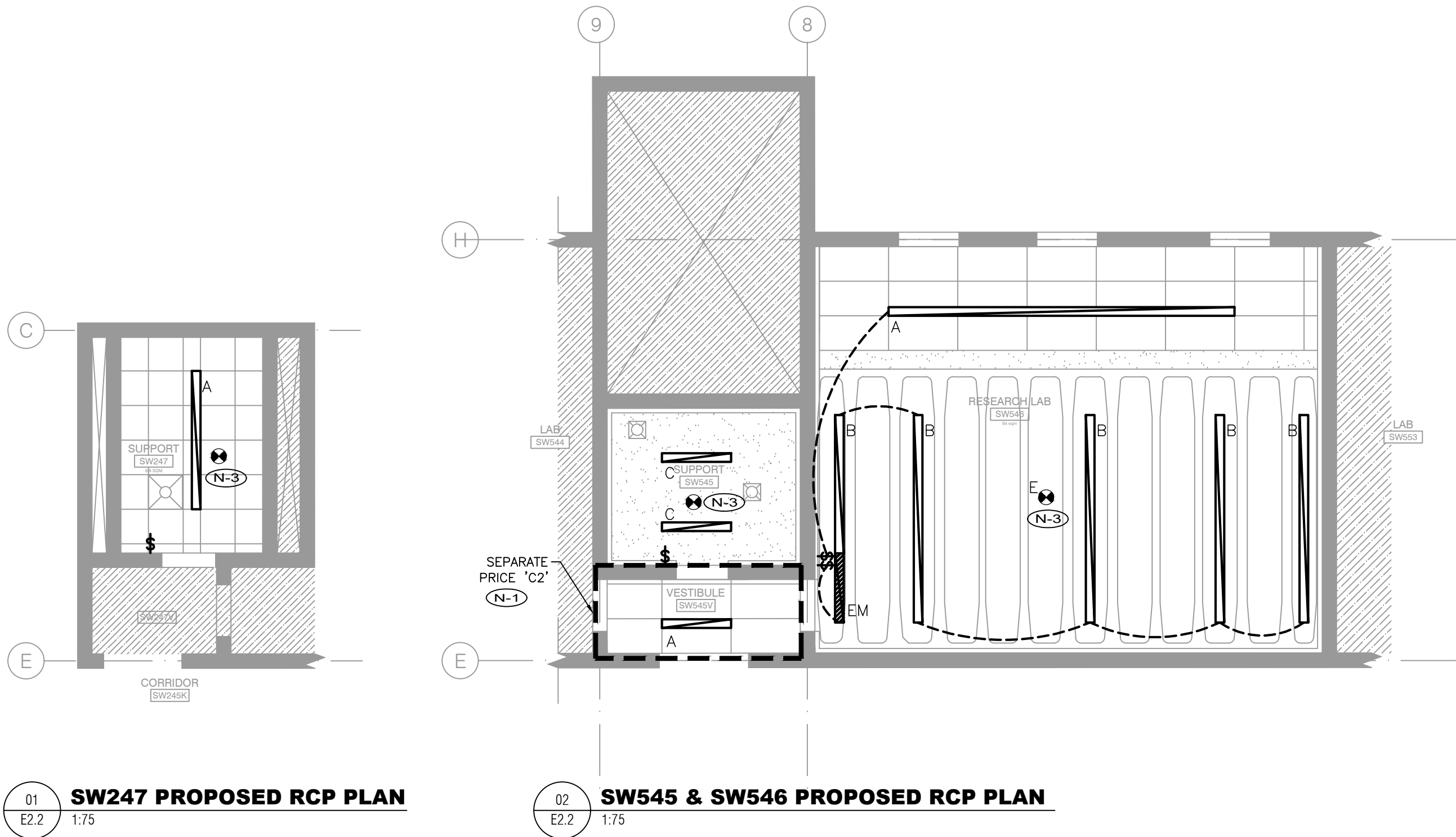
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- SUPPLY AND INSTALL NEW LED LIGHTS COMPLETE WITH CABLE MOUNTING KITS AS PER UTSC SPECIFICATIONS AND ATTACHED LIGHTING LEGEND WHERE INDICATED.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LIGHT LOCATIONS IN REFERENCE TO THE PROPOSED DUCTING AS SHOWN ON MECHANICAL DRAWINGS.
- ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM LIGHTING PANEL FOR ALL LIGHTING FIXTURES ON NORMAL POWER. ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM EMERGENCY PANEL FOR ALL LIGHTING FIXTURES ON EMERGENCY POWER.
- NEW EXIT SIGNS TO BE EDGELIT PICTOGRAM RUNNING MAN EXIT SIGNS AND TO BE CONNECTED TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD CIRCUIT.
- ALL EMERGENCY LOADS TO BE FED FROM EMERGENCY PANEL, AND ALL NORMAL LOADS TO BE FED FROM NORMAL PANEL.
- ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.
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- ALL ELECTRICAL CONDUITS THROUGH WALLS MUST BE COMPLETELY SEALED TO ELIMINATE THEIR POTENTIAL USE AS ROUTES FOR VERMIN OR AEROSOLS.
- MAXIMUM 6 RECEPTACLES PER CIRCUIT FOR GENERAL USE RECEPTACLES, AND MAXIMUM 4 RECEPTACLES PER CIRCUIT FOR COMPUTER WORK STATION RECEPTACLES. EXACT LOCATION OF ALL NEW AND RELOCATED RECEPTACLES TO BE CONFIRMED ON SITE WITH ARCHITECT.
- ALL RECEPTACLES IN OTHER AREAS WHERE THEY MAY BE EXPOSED TO WATER MUST BE GROUND FAULT PROTECTED (GFCI) AND HAVE A WHILE-IN-USE ALL-WEATHER COVER. THIS INCLUDES ALL EXISTING RECEPTACLES WITHIN 2 METERS OF SINKS.
- COORDINATE ELECTRICAL CONNECTION REQUIREMENTS FOR THE EQUIPMENT ON SITE WITH SHOP DRAWINGS, PRIOR TO INSTALLATION.
- THE POWER FOR SPECIALIZED EQUIPMENT MUST BE SIZED AND INSTALLED ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE EQUIPMENT. VERIFY THE EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
- COORDINATE FINAL ELECTRICAL CONNECTION REQUIREMENTS FOR THE EQUIPMENT ON SITE, WITH SHOP DRAWINGS, PRIOR TO INSTALLATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW FOR ALL ELECTRICAL COMPONENTS.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL SUITABLE LABELS ON ALL RECEPTACLES. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION.
- ELECTRICAL CONTRACTOR TO REVISE AND UPDATE PANELBOARD SCHEDULES AFFECTED BY WORK.
- WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOOR, PROVIDE LISTED FIRE STOPPING MATERIAL WHICH BEARS LABEL OF CSA AND ULC AND MAINTAIN SAME FIRE RATING AS THAT OF THE PENETRATED BUILDING COMPONENT.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND EXAMINING ALL CONDITIONS AFFECTING THE PROPOSED INSTALLATION. NO CONSIDERATION WILL BE GIVEN FOR EXTRA COSTS ARISING FROM FAILURE TO VISIT SITE.
- SUPPLY AND INSTALL NEW RECEPTACLES AS SHOWN. RECEPTACLE COVER PLATES TO BE STAINLESS STEEL. MOUNTING HEIGHTS TO BE CONFIRMED ON SITE. ELECTRICAL CONTRACTOR TO MARK UP OUTLET LOCATIONS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.

- ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL RACEWAY ON CONCRETE AND GLAZED WALLS, WITH PHYSICAL DIVIDER TO ACCOMMODATE BOTH DATA AND POWER WIRING WHERE APPLICABLE. ENSURE RACEWAY IS COMPLETELY SEALED.
- ALL WIRING TO RUN IN CONDUITS AND ALL CONDUITS TO BE ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFIED.
- PROVIDE CONNECTORS WITH WATERPROOF BUSHINGS AND "O" RINGS WHEN ENTERING OR EXITING FROM TOP OR SIDE OF ELECTRICAL EQUIPMENT.
- EXPOSED CONDUITS SHALL BE INSTALLED TO CONSERVE HEADROOM AND CAUSE MINIMUM INTERFERENCE IN SPACES THROUGH WHICH THEY PASS.
- USE RIGID GALVANIZED STEEL CONDUIT WHERE EXPOSED INDOORS IN WET LOCATIONS, AND IN-SERVICE AREAS WHERE SUBJECTED TO MECHANICAL INJURY.
- USE RIGID PVC CONDUIT UNDERGROUND AND IN EXPOSED INDOOR CORROSIVE AREAS.
- BEND CONDUIT WITHOUT HEATING. REPLACE CONDUIT IF KINKED OR FLATTENED MORE THAN 1/10TH OF ITS ORIGINAL DIAMETER. A MAXIMUM OF 2 (TWO), 90 DEG. BENDS. OR EQUIVALENT UP TO 180 DEG., WILL BE PERMITTED WITHOUT INSTALLATION OF A PULL BOX. PULL BOXES FOR ELECTRICAL CONDUCTORS SHALL BE INSTALLED AS PER OESC: THE RUN OF CONDUIT OR TUBING BETWEEN DRAW-IN POINTS DOES NOT HAVE MORE THAN THE EQUIVALENT OF TWO 90° BENDS WITH MINIMUM RADII OF NOT LESS THAN 0.944M FOR CABLE RATED 1000V OR LESS, AND IS LIMITED TO A MAXIMUM OF 15M FOR A THREE-CONDUCTOR COPPER CABLE; 45M FOR A SINGLE-CONDUCTOR COPPER CABLE; 35M FOR A THREE-CONDUCTOR ALUMINUM CABLE; OR 100M FOR A SINGLE-CONDUCTOR ALUMINUM CABLE.
- CONDUIT MUST BE INSTALLED SO THAT CONDUCTORS CAN BE DRAWN IN WITHOUT STRAIN OR DAMAGE TO THE CONDUCTORS.
- WHERE VERTICALLY RUN CONDUITS PASS THROUGH A SLAB, CONTRACTOR TO PROVIDE 100MM HIGH CONCRETE PAD WITH THE PAD EXTENDING 100MM ON ALL SIDES OF THE CONDUIT.
- USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTOR OR VIBRATING EQUIPMENT IN DRY AREAS, CONNECTION TO RECESSED LIGHTING FIXTURES WITHOUT A PREWIRED OUTLET BOX, CONNECTION TO SURFACE OR RECESSED LIGHTING FIXTURES AND WORK IN MOVABLE METAL PARTITIONS.
- USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT IN DAMP, WET OR CORROSIVE LOCATIONS. USE ONLY LIQUID TIGHT FITTINGS WHEN USING LIQUID TIGHT FLEXIBLE METAL CONDUIT. LIQUID TIGHT FLEXIBLE CONDUIT TO HAVE A JACKET WITH AN FT6 RATING WHEN USED IN PLENUMS OTHERWISE PROVIDE A MINIMUM FT4 RATING.
- PROVIDE JUNCTION BOXES, CO-ORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN
- SUPPLY AND INSTALL PLENUM RATED FT6 (BELDEN 4813) CABLES FOR COMMUNICATIONS. CABLE TO RUN FROM DATA DROPS, IN CABLE TRAY, TO MAIN IT ROOM. CONDUIT TO BE INSTALLED FROM DEVICE TO CABLE TRAY.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH DOOR SCHEDULE, HARDWARE SCHEDULE, WIRING DIAGRAM AND SHOP DRAWINGS FOR CARD READERS.
- THE SECURITY SYSTEM INSTALLED MUST MATCH THE EXISTING BUILDING SYSTEM. SUPPLY AND INSTALL HONEYWELL SECURITY DEVICES THAT ARE POE (POWER OVER ETHERNET). ALL POE DEVICES RUN BACK TO IT ROOM. PROVIDE PLENUM RATED CABLES TO RUN THROUGH THE CABLE TRAY. FOR ANY OWNER APPROVED NOT POE DEVICES, RUN CABLES BACK TO MAIN SECURITY PANEL. CONDUIT TO BE INSTALLED FROM DEVICE TO CABLE TRAY.
- ALL FIRE ALARM CIRCUITS TO RUN BACK TO THE SIEMENS PANEL. INCLUDE FOR NEW ADDRESSABLE LOOP RUNNING FROM PROJECT AREA TO SW208 FOR ALL NEW ADDRESSABLE FIRE DETECTION DEVICES.
- ALL NEW INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE ULC LISTED AND FM APPROVED.
- FIRE DEPARTMENT SHALL BE NOTIFIED PRIOR TO SHUTTING DOWN ANY FIRE PROTECTION SYSTEM AND NOTIFIED AGAIN WHEN THE SYSTEM IS RETURNED TO NORMAL OPERATION. TO BE COORDINATED WITH DCM PROJECT MANAGER 5 DAYS PRIOR TO SHUT DOWN.
- ELECTRICAL CONTRACTOR TO ALLOW FOR FIRE ALARM PANEL SUPERVISION DURING TIME OF FIRE ALARM BYPASS DURING INSTALLATION.
- ALL FIRE DETECTION DEVICES TO BE SUPPLIED AND VERIFIED BY SIEMENS CANADA LTD, BUILDING TECHNOLOGIES DIVISION CONTACT GERRY THIBEAULT MOBILE: 416-617-3786 GERRY.THIBEAULT@SIEMENS.COM.
- ELECTRICAL CONTRACTOR TO ALLOW FOR THE CONFIRMATION OF CAPACITY OF LOOPS, THE PARTS, PROGRAMMING OF DEVICES, PROGRAMMING OF PANEL, ADDITION OF DEVICES TO SOFTWARE SYSTEM AND VERIFICATION BY SIEMENS.
- SUPPLY AND INSTALL CARD READERS, DOOR ALARM CONTACTS, ELECTRIC STRIKES, AND REQUEST TO EXIT ON THE DOORS AS SHOWN AND CONNECT TO OVERRIDE SWITCH WITH 18/4 SHIELDED FT-6 PLENUM RATED. CONTRACTOR TO LABEL THE SWITCH WITH WRITING APPROVED BY UTSC. COORDINATE ALL REQUIREMENTS WITH HONEYWELL AND UTSC SECURITY.
- ELECTRICAL CONTRACTOR TO CARRY HONEYWELL TO TERMINATE WIRING AT CONTROLLER 26 IN SW254A PANEL. COMPLETE PROGRAMMING, UPDATE GRAPHIC AND COMMISSION WORK.

- ELECTRICAL CONTRACTOR TO CARRY COMMUNICATIONS SCOPE. COORDINATE ALL COMMUNICATIONS REQUIREMENTS WITH IITS PRIOR TO INSTALLATION AND
- THE FIBER CABLE MUST NOT BE FREE AIR AND MUST BE INSIDE AN ORANGE INNER DUCT FOR THE WHOLE LENGTH OF THE CABLE.
- LOCATE EXISTING CONDUIT INTERFERING WITH MECHANICAL SYSTEMS AND RELOCATE TO MAKE SPACE FOR DUCTS DURING AFTER HOURS
- PROVIDE OVERRIDE SWITCHES FOR CARD READERS.
- NEW DATA ON 5TH FLOOR TO RUN TO SW539.

DRAWING NOTES:

- (N-1) REUSE EXISTING POWER OUTLET FOR ENVIRONMENTAL CHAMBER. ENVIRONMENTAL CHAMBER OUTLET TO BE 120V, 15A/1P DEDICATED EMERGENCY CIRCUIT. ELECTRICAL CONTRACTOR TO VERIFY ON SITE AND PROVIDE A NEW 15A DEDICATED CIRCUIT C/W WIRING AND CONDUIT IF REQUIRED.
- (N-2) ALL NORMAL POWER RECEPTACLES IN LAB SW247 SHALL BE FED FROM EXISTING PANEL 'E1' LOCATED IN VESTIBULE 249V.
- (N-3) TEMPORARILY DISCONNECT POWER CONNECTION TO EXISTING FUME HOOD AND RECONNECT AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
- (N-4) ELECTRICAL CONTRACTOR TO PROVIDE 120V, 15A/1P POWER CONNECTIONS TO HEIGHT-ADJUSTABLE DESKS AS REQUIRED.
- (N-5) ELECTRICAL CONTRACTOR TO PROVIDE 120V, 15A/1P POWER CONNECTION TO CASEWORK'S LIGHTING AS REQUIRED.
- (N-6) OUTLET MONUMENTS ABOVE THE COUNTERS TO MEET ELECTRICAL SPECIFICATIONS AND TO BE TWO GANG "LEGRAND WIREMOLD MULTI-SERVICE PEDESTAL TABLE BOXES FOR LAB APPLICATIONS" C/W DECORA RECEPTACLE AND STAINLESS STEEL COVER PLATE. SINGLE FACE OR DOUBLE FACE MONUMENT AS INDICATED ON DRAWING.
- (N-7) OUTLET MONUMENTS ABOVE THE COUNTERS TO MEET ELECTRICAL SPECIFICATIONS AND TO BE DOUBLE-FACE (ONE DATA DROP ON EACH SIDE) "LEGRAND WIREMOLD MULTI-SERVICE PEDESTAL TABLE BOXES FOR LAB APPLICATIONS" C/W STAINLESS STEEL COVER PLATE.



GENERAL NOTES:

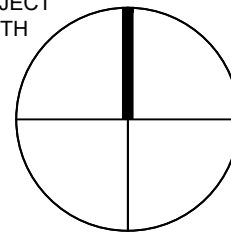
- FOLLOW ALL HEALTH AND SAFETY PROCEDURES AS MANDATED BY UNIVERSITY OF TORONTO EHS DEPARTMENT WHILE WORKING ON SITE (I.E CONFINED SPACES, FALL PROTECTION, PORTABLE LADDERS, ETC) REFER TO <http://www.ehs.utoronto.ca/resources/mainindex.htm> FOR ADDITIONAL INFORMATION.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILS, FINISHES AND COLOURS.
- SUPPLY AND INSTALL NEW LED LIGHTS COMPLETE WITH CABLE MOUNTING KITS AS PER UTSC SPECIFICATIONS AND ATTACHED LIGHTING LEGEND WHERE INDICATED.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR LIGHT LOCATIONS IN REFERENCE TO THE PROPOSED DUCTING AS SHOWN ON MECHANICAL DRAWINGS.
- ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM LIGHTING PANEL FOR ALL LIGHTING FIXTURES ON NORMAL POWER. ELECTRICAL CONTRACTOR TO USE CIRCUITS FROM EMERGENCY PANEL FOR ALL LIGHTING FIXTURES ON EMERGENCY POWER.
- NEW EXIT SIGNS TO BE EDELIT PICTOGRAM RUNNING MAN EXIT SIGNS AND TO BE CONNECTED TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD CIRCUIT.
- ALL EMERGENCY LOADS TO BE FED FROM EMERGENCY PANEL, AND ALL NORMAL LOADS TO BE FED FROM NORMAL PANEL.
- ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN AND RELOCATE EXISTING SERVICES WHICH PASS THROUGH THE AREA OF RENOVATION OR DEMOLITION, BUT FEEDS ITEMS LOCATED OUTSIDE OF THESE AREAS. REWIRE DEVICES TO ORIGINAL CIRCUITS.
- PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES AND OTHER ITEMS NECESSARY FOR COMPLETE RELOCATION OF DEVICES, FIXTURES AND EQUIPMENT.
- CONNECTIONS TO EXISTING SYSTEMS TO BE MADE AT APPROVED TIMES. OBTAIN WRITTEN APPROVAL RECORDING TIMES WHEN CONNECTIONS CAN BE MADE. ARRANGE WORK SO THAT PHYSICAL ACCESS TO EXISTING BUILDINGS IS NOT UNDULY INTERRUPTED. REQUEST FOR SHUT-DOWNS TO BE SUBMITTED IN WRITING BY THE CONTRACTOR WITH A MINIMUM OF TWO-WEEK NOTICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING SYSTEMS WHEN MAKING CONNECTIONS.
- ALL ELECTRICAL CONDUITS THROUGH WALLS MUST BE COMPLETELY SEALED TO ELIMINATE THEIR POTENTIAL USE AS ROUTES FOR VERMIN OR AEROSOLS.
- MAXIMUM 6 RECEPTACLES PER CIRCUIT FOR GENERAL USE RECEPTACLES, AND MAXIMUM 4 RECEPTACLES PER CIRCUIT FOR COMPUTER WORK STATION RECEPTACLES. EXACT LOCATION OF ALL NEW AND RELOCATED RECEPTACLES TO BE CONFIRMED ON SITE WITH ARCHITECT.
- ALL RECEPTACLES IN OTHER AREAS WHERE THEY MAY BE EXPOSED TO WATER MUST BE GROUND FAULT PROTECTED (GFCI) AND HAVE A WHILE-IN-USE ALL-WEATHER COVER. THIS INCLUDES ALL EXISTING RECEPTACLES WITHIN 2 METERS OF SINKS.
- COORDINATE ELECTRICAL CONNECTION REQUIREMENTS FOR THE EQUIPMENT ON SITE WITH SHOP DRAWINGS, PRIOR TO INSTALLATION.
- THE POWER FOR SPECIALIZED EQUIPMENT MUST BE SIZED AND INSTALLED ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE EQUIPMENT. VERIFY THE EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
- COORDINATE FINAL ELECTRICAL CONNECTION REQUIREMENTS FOR THE EQUIPMENT ON SITE, WITH SHOP DRAWINGS, PRIOR TO INSTALLATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW FOR ALL ELECTRICAL COMPONENTS.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL SUITABLE LABELS ON ALL RECEPTACLES. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION.
- ELECTRICAL CONTRACTOR TO REVISE AND UPDATE PANELBOARD SCHEDULES AFFECTED BY WORK.
- WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOOR, PROVIDE LISTED FIRE STOPPING MATERIAL WHICH BEARS LABEL OF CSA AND ULC AND MAINTAIN SAME FIRE RATING AS THAT OF THE PENETRATED BUILDING COMPONENT.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND EXAMINING ALL CONDITIONS AFFECTING THE PROPOSED INSTALLATION. NO CONSIDERATION WILL BE GIVEN FOR EXTRA COSTS

- ARISING FROM FAILURE TO VISIT SITE.
- SUPPLY AND INSTALL NEW RECEPTACLES AS SHOWN. RECEPTACLE COVER PLATES TO BE STAINLESS STEEL. MOUNTING HEIGHTS TO BE CONFIRMED ON SITE. ELECTRICAL CONTRACTOR TO MARK UP OUTLET LOCATIONS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
 - ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL RACEWAY ON CONCRETE AND GLAZED WALLS, WITH PHYSICAL DIVIDER TO ACCOMMODATE BOTH DATA AND POWER WIRING WHERE APPLICABLE. ENSURE RACEWAY IS COMPLETELY SEALED.
 - ALL WIRING TO RUN IN CONDUITS AND ALL CONDUITS TO BE ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFIED.
 - PROVIDE CONNECTORS WITH WATERPROOF BUSHINGS AND "O" RINGS WHEN ENTERING OR EXITING FROM TOP OR SIDE OF ELECTRICAL EQUIPMENT.
 - EXPOSED CONDUITS SHALL BE INSTALLED TO CONSERVE HEADROOM AND CAUSE MINIMUM INTERFERENCE IN SPACES THROUGH WHICH THEY PASS.
 - USE RIGID GALVANIZED STEEL CONDUIT WHERE EXPOSED INDOORS IN WET LOCATIONS, AND IN-SERVICE AREAS WHERE SUBJECTED TO MECHANICAL INJURY.
 - USE RIGID PVC CONDUIT UNDERGROUND AND IN EXPOSED INDOOR CORROSIVE AREAS.
 - BEND CONDUIT WITHOUT HEATING. REPLACE CONDUIT IF KINKED OR FLATTENED MORE THAN 1/10TH OF ITS ORIGINAL DIAMETER. A MAXIMUM OF 2 (TWO), 90 DEG. BENDS. OR EQUIVALENT UP TO 180 DEG., WILL BE PERMITTED WITHOUT INSTALLATION OF A PULL BOX. PULL BOXES FOR ELECTRICAL CONDUCTORS SHALL BE INSTALLED AS PER OESC: THE RUN OF CONDUIT OR TUBING BETWEEN DRAW-IN POINTS DOES NOT HAVE MORE THAN THE EQUIVALENT OF TWO 90° BENDS WITH MINIMUM RADIUS OF NOT LESS THAN 0.944M FOR CABLE RATED 1000V OR LESS, AND IS LIMITED TO A MAXIMUM OF 15M FOR A THREE-CONDUCTOR COPPER CABLE; 45M FOR A SINGLE-CONDUCTOR COPPER CABLE; 35M FOR A THREE-CONDUCTOR ALUMINUM CABLE; OR 100M FOR A SINGLE-CONDUCTOR ALUMINUM CABLE.
 - CONDUIT MUST BE INSTALLED SO THAT CONDUCTORS CAN BE DRAWN IN WITHOUT STRAIN OR DAMAGE TO THE CONDUCTORS.
 - WHERE VERTICALLY RUN CONDUITS PASS THROUGH A SLAB, CONTRACTOR TO PROVIDE 100MM HIGH CONCRETE PAD WITH THE PAD EXTENDING 100MM ON ALL SIDES OF THE CONDUIT.
 - USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTOR OR VIBRATING EQUIPMENT IN DRY AREAS. CONNECTION TO RECESSED LIGHTING FIXTURES WITHOUT A PREWIRED OUTLET BOX. CONNECTION TO SURFACE OR RECESSED LIGHTING FIXTURES AND WORK IN MOVABLE METAL PARTITIONS.
 - USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT IN DAMP, WET OR CORROSIVE LOCATIONS. USE ONLY LIQUID TIGHT FITTINGS WHEN USING LIQUID TIGHT FLEXIBLE METAL CONDUIT. LIQUID TIGHT FLEXIBLE CONDUIT TO HAVE A JACKET WITH AN FT6 RATING WHEN USED IN PLENUMS OTHERWISE PROVIDE A MINIMUM FT4 RATING.
 - PROVIDE JUNCTION BOXES, CO-ORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - SUPPLY AND INSTALL PLENUM RATED FT6 (BELDEN 4813) CABLES FOR COMMUNICATIONS. CABLE TO RUN FROM DATA DROPS, IN CABLE TRAY, TO MAIN IT ROOM. CONDUIT TO BE INSTALLED FROM DEVICE TO CABLE TRAY.
 - THE SECURITY SYSTEM INSTALLED MUST MATCH THE EXISTING BUILDING SYSTEM. SUPPLY AND INSTALL HONEYWELL SECURITY DEVICES THAT ARE POE (POWER OVER ETHERNET). ALL POE DEVICES RUN BACK TO IT ROOM. PROVIDE PLENUM RATED CABLES TO RUN THROUGH THE CABLE TRAY. FOR ANY OWNER APPROVED NOT POE DEVICES, RUN CABLES BACK TO MAIN SECURITY PANEL. CONDUIT TO BE INSTALLED FROM DEVICE TO CABLE TRAY.
 - ALL FIRE ALARM CIRCUITS TO RUN BACK TO THE SIEMENS PANEL.
 - ALL NEW INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE ULC LISTED AND FM APPROVED.
 - FIRE DEPARTMENT SHALL BE NOTIFIED PRIOR TO SHUTTING DOWN ANY FIRE PROTECTION SYSTEM AND NOTIFIED AGAIN WHEN THE SYSTEM IS RETURNED TO NORMAL OPERATION. TO BE COORDINATED WITH DCM PROJECT MANAGER 5 DAYS PRIOR TO SHUT DOWN.
 - ELECTRICAL CONTRACTOR TO ALLOW FOR FIRE ALARM PANEL SUPERVISION DURING TIME OF FIRE ALARM BYPASS DURING INSTALLATION.
 - ALL FIRE DETECTION DEVICES TO BE SUPPLIED AND VERIFIED BY SIEMENS CANADA LTD, BUILDING TECHNOLOGIES DIVISION CONTACT GERRY THIBEAULT MOBILE: 416-617-3786 gerry.thibault@siemens.com.

DRAWING NOTES:

- N-1** SEPARATE PRICE C2: FOR REMOVAL OF EXISTING LIGHT FIXTURE, AND INSTALLATION OF NEW LIGHT FIXTURE (TYPE 'A').
- N-2** SEPARATE PRICE C3: FOR 1- REMOVAL OF EXISTING LIGHT FIXTURES, AND INSTALLATION OF NEW LIGHT FIXTURES (TYPE 'A'). 2- REMOVAL AND INSTALLATION OF FIRE ALARM SMOKE DETECTOR AND PROVIDE VERIFICATION REPORT. 3- ALLOCATE FOR NEW 0-10V WIRING TO THE LIGHT SWITCH LOCATION. THE NEW LIGHT SWITCH TO BE LUTRON DIVA 0-10V CONTROL (CAT.# DVSTV- 8A) C/W STAINLESS STEEL (SS) COVER PLATE. PROVIDE ALL NECESSARY EQUIPMENT FOR A FULLY OPERATIONAL SYSTEM.
- N-3** FIRE ALARM DETECTORS IN THE SPACE TO BE ADDRESSABLE. ELECTRICAL CONTRACTOR TO VERIFY ON SITE AND PROVIDE NEW ADDRESSABLE FIRE ALARM DETECTORS AS REQUIRED. CONNECT NEW DETECTORS TO THE NEAREST ADDRESSABLE LOOP. ALLOW FOR ALL ASSOCIATED COSTS, INCLUDING BUT NOT LIMITED TO PROGRAMMING AND TESTING.
- N-4** THE NEW LIGHT SWITCHES TO BE LUTRON DIVA 0-10V CONTROLS (CAT.# DVSTV- 8A) C/W STAINLESS STEEL (SS) COVER PLATES. PROVIDE ALL NECESSARY EQUIPMENT, INCLUDING BUT NOT LIMITED TO ELCU-200, TO ENSURE A FULLY OPERATIONAL AND CODE-COMPLIANT SYSTEM.

PROJECT
NORTH



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SCARBOROUGH
1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #
DCM2024-09

PROJECT TITLE:

SW247, SW526, SW545 & SW546
INTERIOR RENOVATION

SCIENCE WING, 1265 MILITARY TRAIL

DRAWN BY: SE CHECKED BY: HY

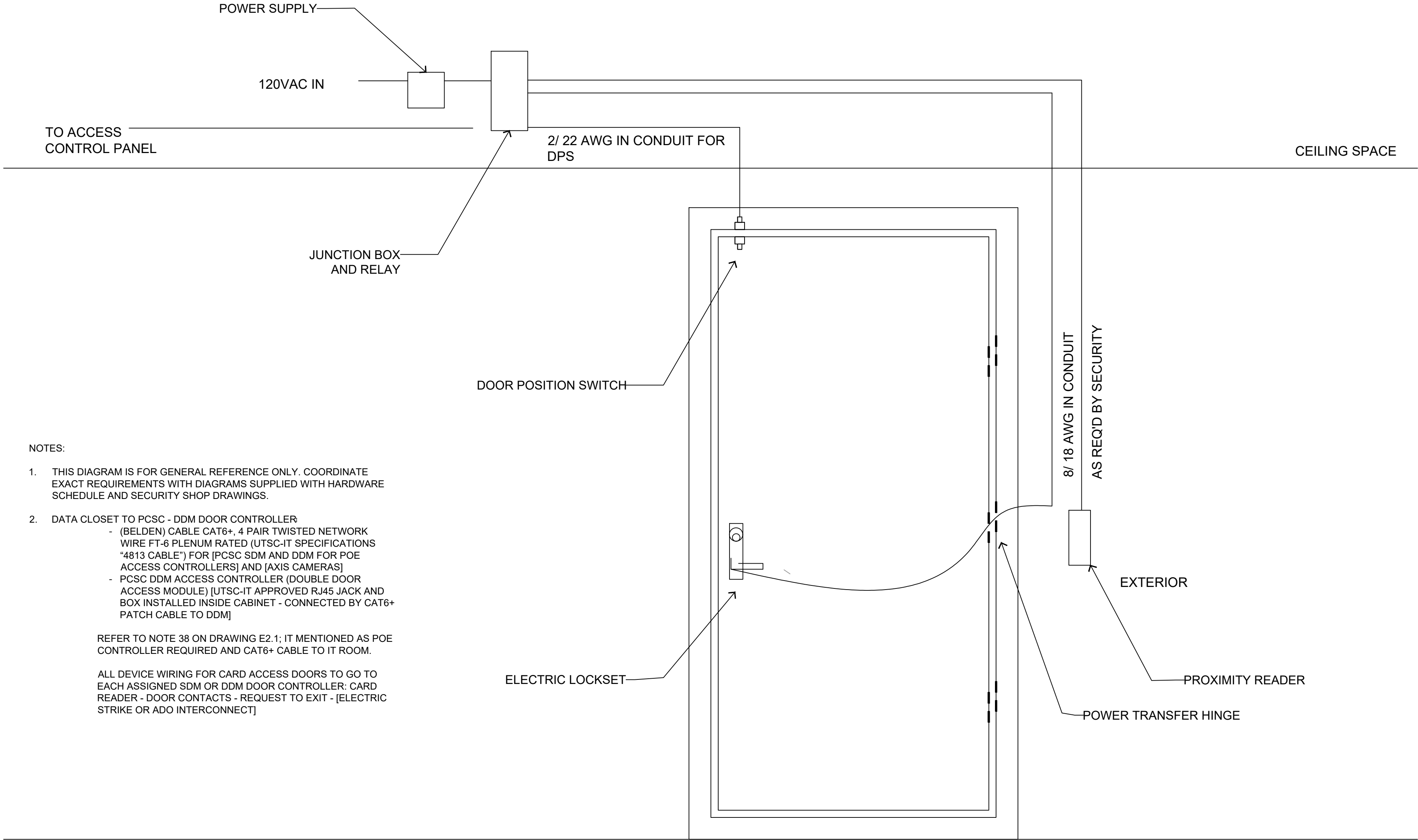
DRAWING TITLE:
2ND & 5TH FLOORS-
PROPOSED RCP PLAN

DATE:
2025-05-01

SCALE:
AS NOTED

DRAWING NO.:

E2.2

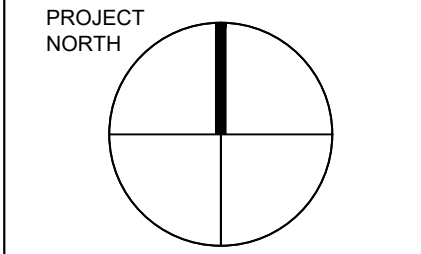


NOTES:

- THIS DIAGRAM IS FOR GENERAL REFERENCE ONLY. COORDINATE EXACT REQUIREMENTS WITH DIAGRAMS SUPPLIED WITH HARDWARE SCHEDULE AND SECURITY SHOP DRAWINGS.
- DATA CLOSET TO PCSC - DDM DOOR CONTROLLER
 - (BELDEN) CABLE CAT6+, 4 PAIR TWISTED NETWORK WIRE FT-6 PLENUM RATED (UTSC-IT SPECIFICATIONS "4813 CABLE") FOR [PCSC SDM AND DDM FOR POE ACCESS CONTROLLERS] AND [AXIS CAMERAS]
 - PCSC DDM ACCESS CONTROLLER (DOUBLE DOOR ACCESS MODULE) [UTSC-IT APPROVED RJ45 JACK AND BOX INSTALLED INSIDE CABINET - CONNECTED BY CAT6+ PATCH CABLE TO DDM]

REFER TO NOTE 38 ON DRAWING E2.1; IT MENTIONED AS POE CONTROLLER REQUIRED AND CAT6+ CABLE TO IT ROOM.

ALL DEVICE WIRING FOR CARD ACCESS DOORS TO GO TO EACH ASSIGNED SDM OR DDM DOOR CONTROLLER: CARD READER - DOOR CONTACTS - REQUEST TO EXIT - [ELECTRIC STRIKE OR ADO INTERCONNECT]



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1265 MILITARY TRAIL, TORONTO ONTARIO, M1C1A4

PROJECT #:
DCM2024-09

PROJECT TITLE:
**SW247, SW526, SW545 & SW546
INTERIOR RENOVATION**

SCIENCE WING, 1265 MILITARY TRAIL
DRAWN BY: SE
CHECKED BY: HY

DRAWING TITLE:
ELECTRICAL DETAILS