

ABBREVIATIONS	
@	- AT
&	- AND
C	- WASHROOM CURTAINS
A.C.	- ACOUSTIC
ALUM.	- ALUMINUM
APPROX.	- APPROXIMATE(LY)
AT	- ACOUSTIC TILE
BARR.	- BARRIER
BD.	- BOARD
C.J.	- CONTROL JOINT
C/W	- COMPLETE WITH
CAR.	- CARPET
CH	- CEILING HEIGHT
CL	- CENTRE LINE
DB	- DISPOSAL BAG UNITS
DN	- DOWN
ELEC.	- ELECTRICAL
FIN.	- FINISH(ED)
FL.	- FLOOR
GL	- GLAZING
GR.	- GRADE
GY.	- GYPSIUM
HD	- ELECTRIC HAND DRYER
H.M.	- HOT DIPPED GALVANIZED
H.S.S.	- HOLLOW METAL
H.W.	- HOLLOW STRUCTURAL SECTION
H.W.	- HOT WATER
MAX.	- MAXIMUM
MECH.	- MECHANICAL
MIN.	- MINIMUM
NBC	- NATIONAL BUILDING CODE
(N.I.C.)	- NOT IN CONTRACT
OBC	- ONTARIO BUILDING CODE
O.C.	- ON CENTRE
O.W.S.J.	- OPEN WEB STEEL JOISTS
PT	- PAPER TOWEL DISPENSER
P.V.C.	- POLY VINYL CHLORIDE
PLY.	- PLYWOOD
POLY.	- POLYETHYLENE
RBC	- RUBBER COVE BASE
R.D.	- ROOF DRAIN
R.W.L.	- RAIN WATER LEADER
REV.	- REVERSED
SD	- SOAP DISPENSER
SIM.	- SIMILAR
TYP.	- TYPICAL
U/S	- UNDERSIDE
VAT	- VINYL ASBESTOS TILE
VCT	- VINYL COMPOSITE TILE
VRT	- VINYL REINFORCED TILE

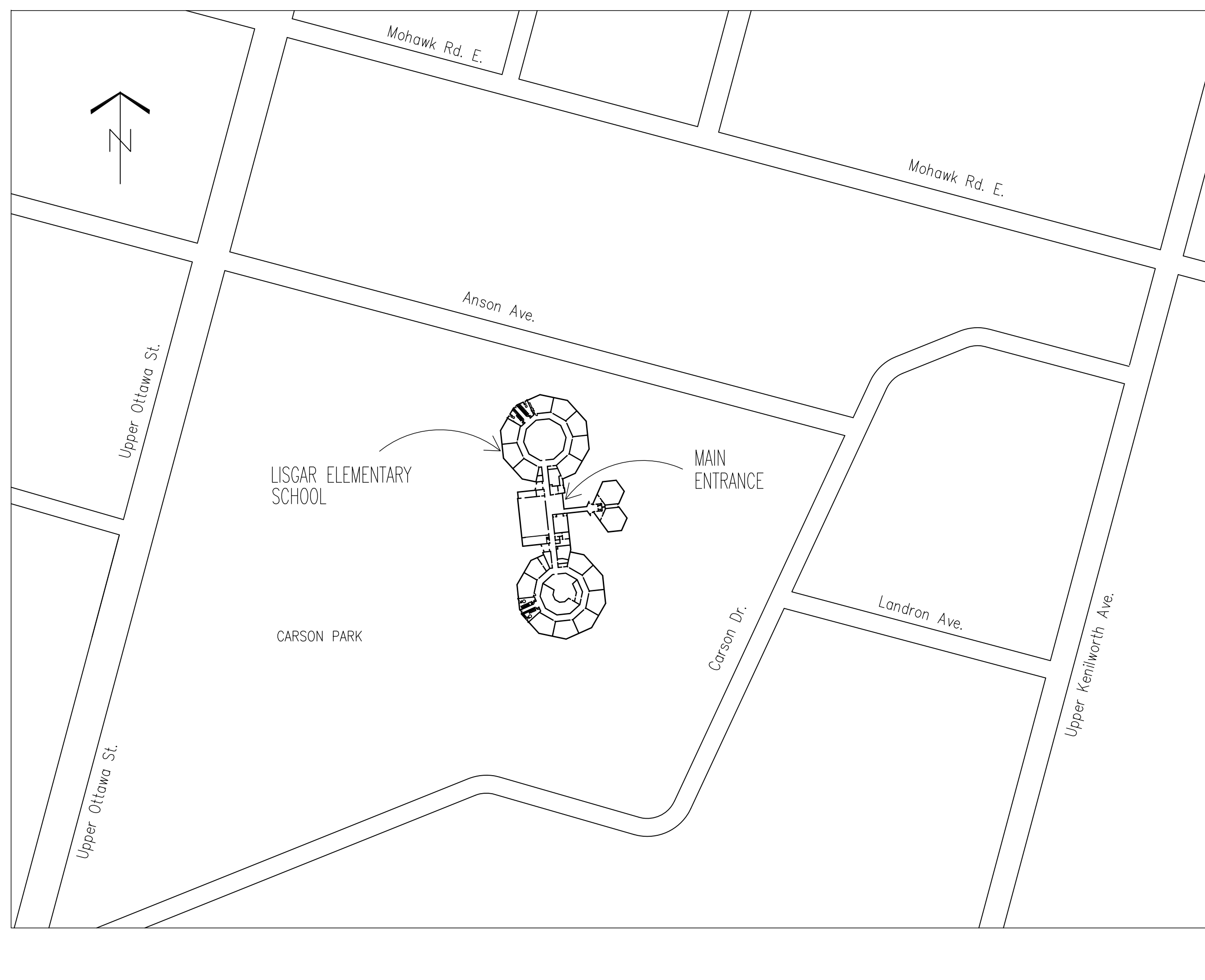
RICHARD G BUTTERWORTH ARCHITECT INC.
127 JUDITH CRESCENT, ANCASTER, ONTARIO L9G 1L3
TEL: 905-304-0241

CERTIFICATE OF PRACTICE NUMBER: 1409
THE CERTIFICATE OF PRACTICE NUMBER
OF THE HOLDER IS THE HOLDER'S BCIN.

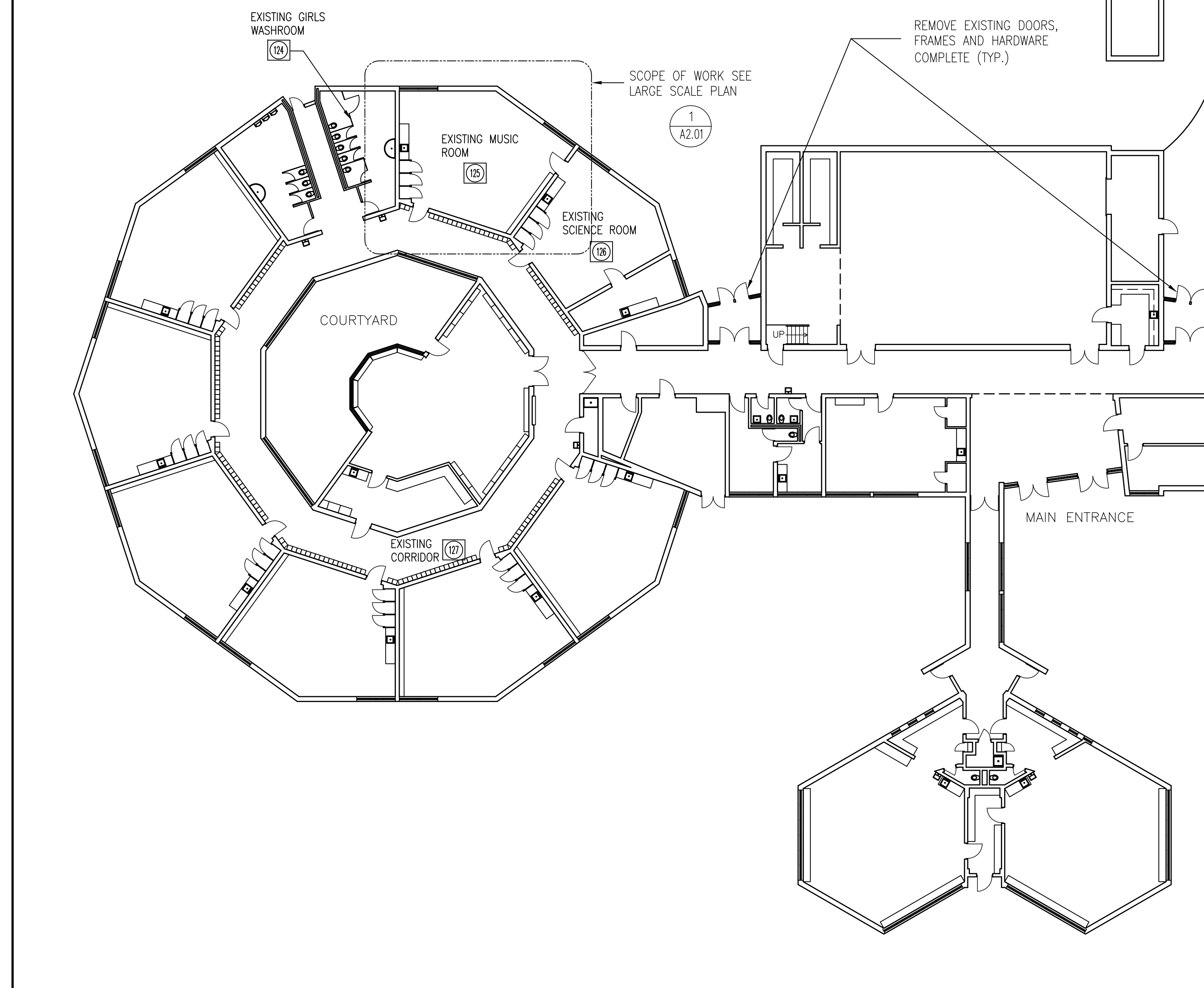
NAME OF PROJECT:
LISGAR ELEMENTARY SCHOOL
HAMILTON – WENTWORTH DISTRICT SCHOOL BOARD
LOCATION: 110 ANSON AVENUE HAMILTON, ONTARIO

ONTARIO BUILDING CODE PART 11 REVIEW MATRIX

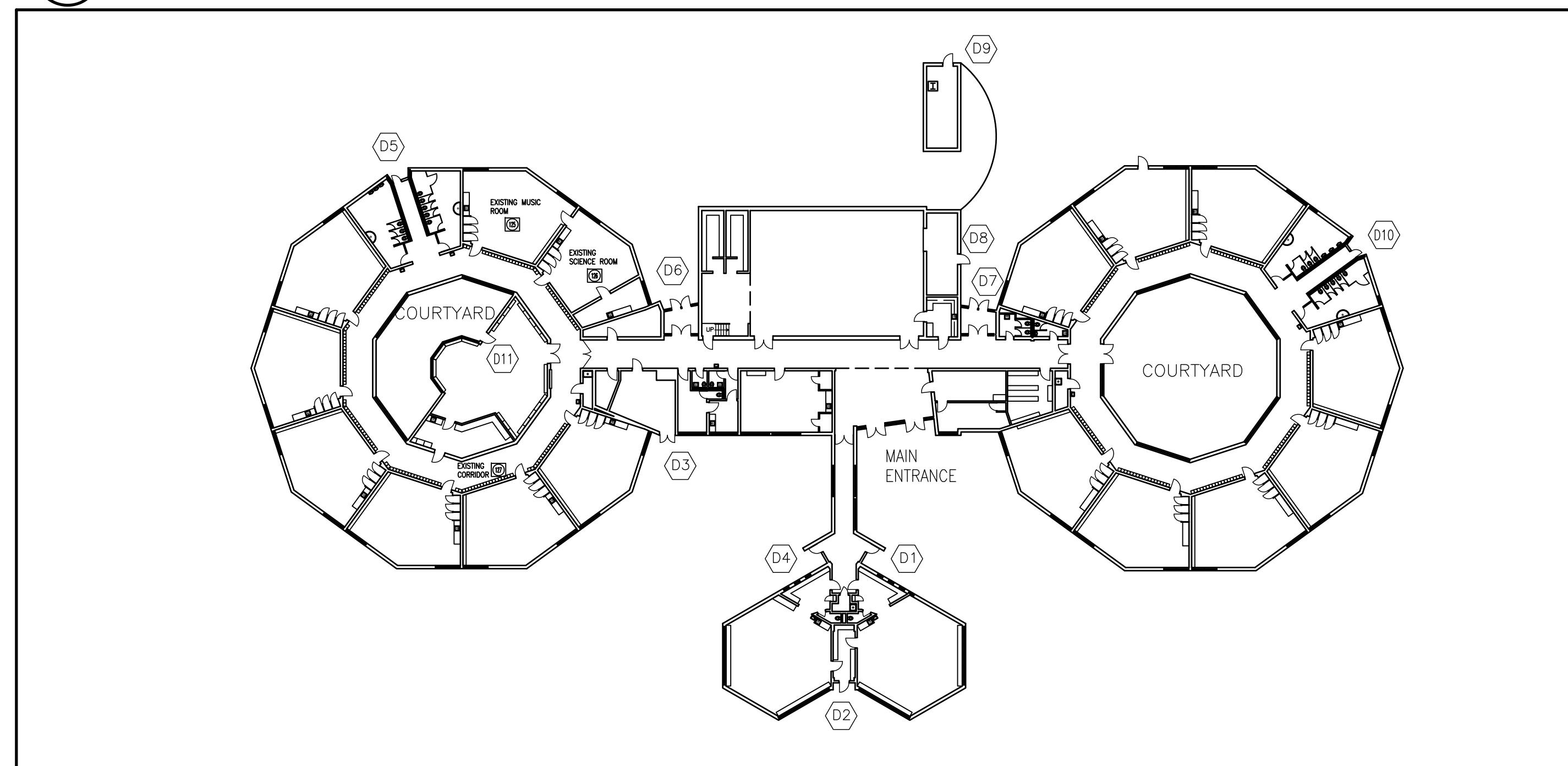
PROJECT DESCRIPTION: BASIC RENOVATION TO LISGAR ELEMENTARY SCHOOL			
AGE OF BUILDING (YEARS):	61	ANY ADDITION:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
AGE OF ADDITION (YEARS):	N/A	WILL ADDITION BE AFFECTED:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CONSTRUCTION INDEX: TABLE 11.2.1.1. A.	N/A	HAZARD INDEX (OLD): TABLE 11.2.1.1.	N/A
NUMBER OF STOREYS:	1	HAZARD INDEX (NEW): TABLE 11.2.1.1.	N/A
HEIGHT OF BUILDING (m):	4±	HAZARD INDEX CREDIT APPLICABLE: TABLE 11.2.1.1. (2)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NUMBER OF STREETS:	4	FARM BUILDING: TABLE 11.4.2.3. (1)(c)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
STRUCTURAL UPGRADING REQUIRED: TABLE 11.4.2.1.1.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	COMPLIANCE ALTERNATIVE NUMBER: TABLE 11.5.1.1.	N/A
TYPE OF CONSTRUCTION:	<input type="checkbox"/> COMBUSTABLE <input checked="" type="checkbox"/> NON-COMBUSTABLE	<input type="checkbox"/> HEAVY TIMBER	
EARLY WARMING AND EVACUATION SYSTEM UPGRADE REQUIRED: TABLE 11.3.3.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
BUILDING DETAILS		EXISTING	PROPOSED
MAJOR OCCUPANCY CLASSIFICATIONS: TABLE 3.1.2.1.		GROUP A DIVISION 2	GROUP A DIVISION 2
OCCUPANCY LOAD DETERMINATION: TABLE 3.1.16.1 (3.1.17.1 CORRECTED)		300	300
FRR FLOORS OVER BASEMENT (HOURS):		N/A	N/A
FRR OTHER FLOORS (HOURS):		N/A	N/A
FRR ROOF (HOURS):		N/A	N/A
NUMBER OF SUITES OF GROUP C: OCCUPANCY 11.4.2.3. (1)(b)		N/A	N/A
AREA OF BUILDING (SQ.FT.):		778 SQ.FT ±	778 SQ.FT ±
BUILDING SPRINKLERED:		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
FIRE ALARM SYSTEM REQUIRED:		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO



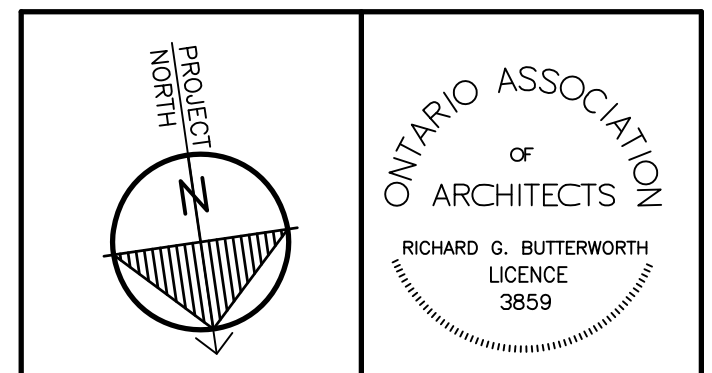
1 SITE KEY PLAN, O.B.C. MATRIX AND FIXTURE CALCULATIONS
A0.01 N.T.S.



2 GROUND FLOOR KEY PLAN
A0.01 N.T.S.



3 DOOR KEY PLAN
A0.01 N.T.S.

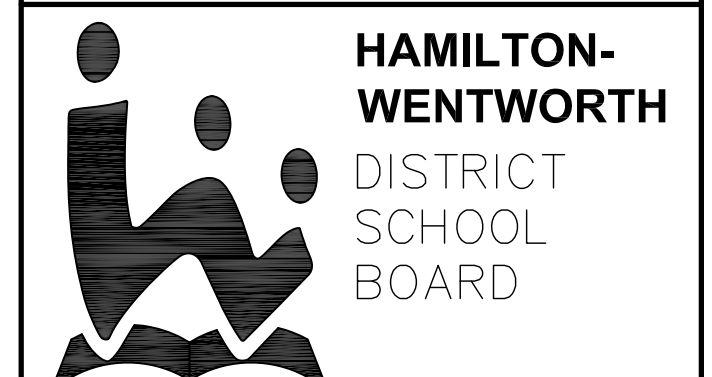


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Richard G. Butterworth, Architect

GENERAL NOTES

- BEFORE TENDERING, EXAMINE ALL CONDITIONS AFFECTING THE SITE AND WORK TO BE DONE THEREON. THE DOCUMENTS ARE FURNISHED IN GOOD FAITH FOR THE GUIDANCE OF THE CONTRACTOR, BUT SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ASCERTAINING, TO THEIR OWN SATISFACTION, THE NATURE OF ALL CONDITIONS ON THE SITE.
- REPORT TO THE OWNER ALL DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM ALL APPLICABLE CODES, BY-LAWS AND REGULATIONS, GOOD PRACTICE AND ANY POINTS CONSIDERED TO BE OF DUBIOUS INTENT PRIOR TO THE QUESTION PERIOD DEADLINE, SO THAT THE OWNER MAY IF CONSIDERED DESIRABLE, ISSUE INSTRUCTIONS BY ADDENDA. THE OWNER AND ARCHITECT WILL NOT BE RESPONSIBLE FOR ORAL INSTRUCTIONS.
- ALL DIMENSIONS AND INFORMATION SHOWN ON THE CONTRACT DRAWINGS MUST BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION AND FABRICATION OF ITS COMPONENTS, SHOULD EXISTING CONDITIONS OR SERVICES BE FOUND TO VARY FOR THAT INDICATED ON THE CONTRACT DRAWINGS, THE ARCHITECT MUST BE NOTIFIED IMMEDIATELY.
- ALL CUTTING AND PATCHING BY GENERAL CONTRACTOR, PERFORM FULL ELECTROMAGNETIC SCANNING OF ALL FLOORS TO DETECT ANY PIPING, CONDUIT OR LIVE WIRES BEFORE CUTTING OR CORE DRILLING. MAKE GOOD ALL SURFACES TO MATCH EXISTING FLUSH.
- REMOVE ALL EXISTING ITEMS SHOWN DOTTED AS INDICATED ON DRAWINGS. MAKE GOOD ALL SURFACES TO MATCH EXISTING. PATCH ALL HOLES FLUSH WITH EXISTING SURFACES AND PAINT TO MATCH.
- PAINT ALL NEW AND EXISTING SURFACES AND ITEMS WITH SPECIAL COLOUR BLOCK PRIMER FOR ALL BASED PAINT AND 2 FINISHED COATS (TYP.)
- DO NOT SCALE THE DRAWINGS.



2.	ISSUED FOR TENDER	FEB. 6, 2025
1.	ISSUED FOR REVIEW	NOV. 14, 2024
No.	REVISIONS	DATE

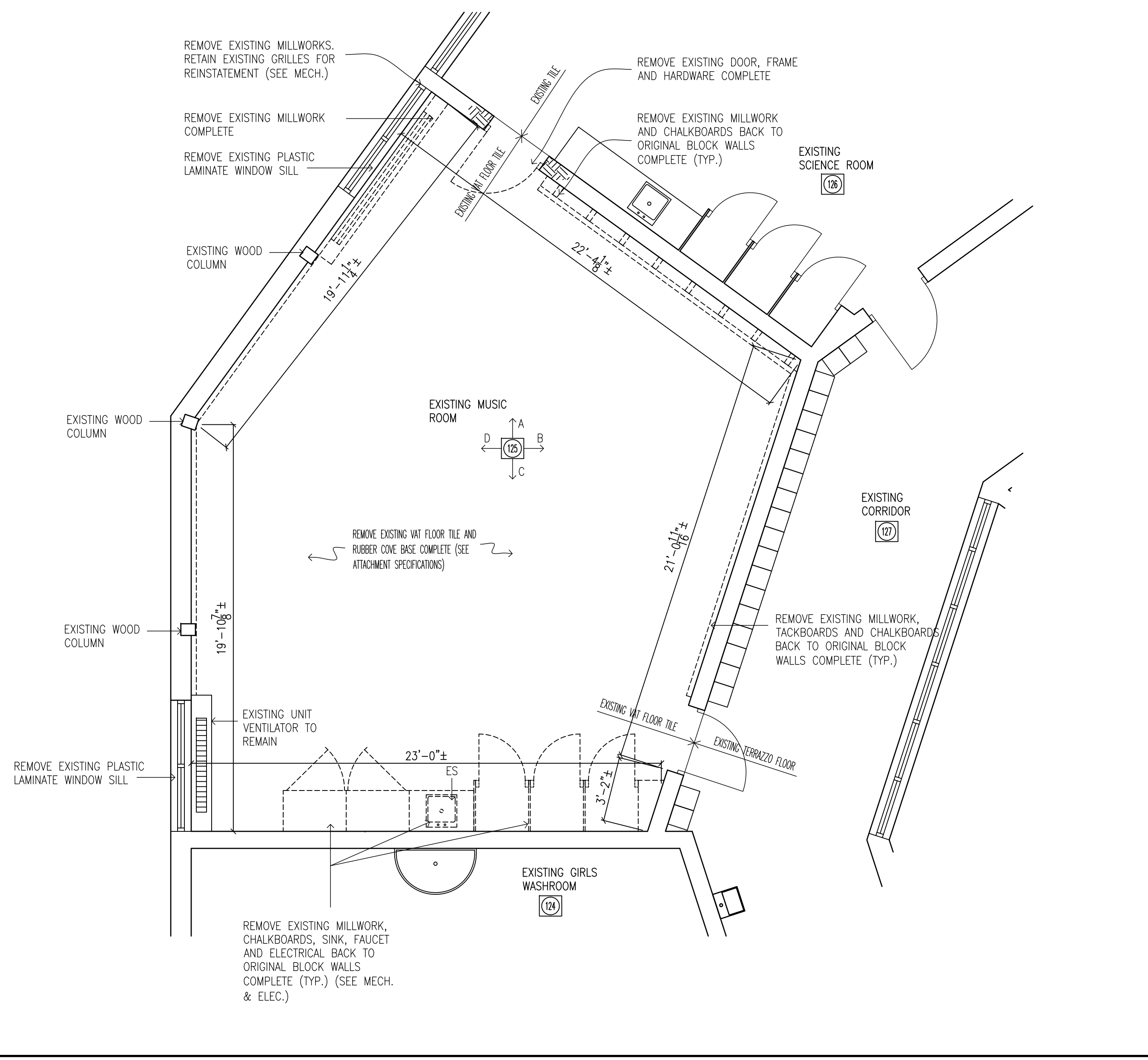
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ARCHITECT INC.
Architecture
Interior
Urban Planning
Ancaster Ontario

LISGAR ELEMENTARY SCHOOL
HAMILTON – WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

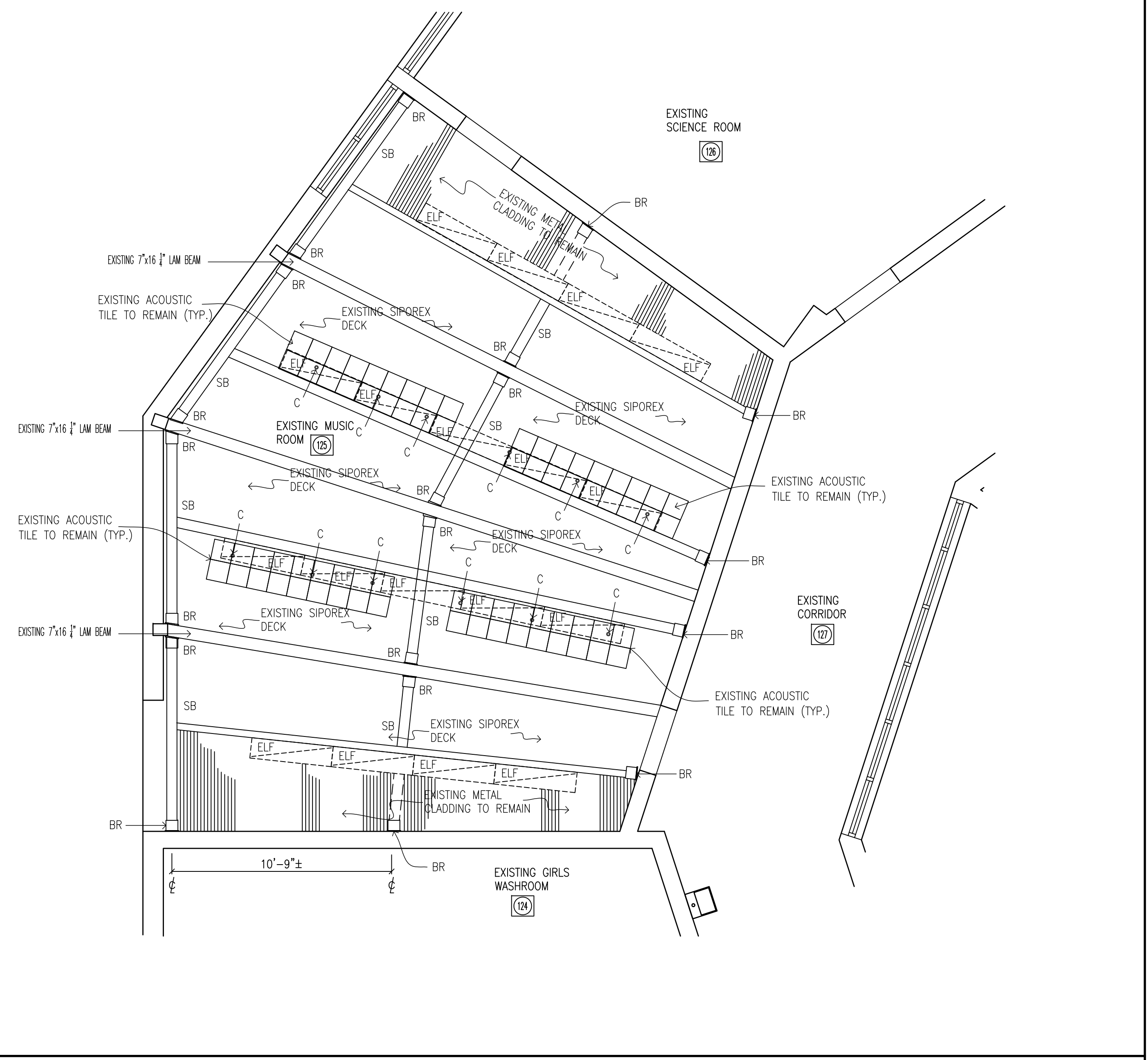
KEY PLANS AND ONTARIO BUILDING CODE MATRIX AND GENERAL NOTES

DRAWN BY:	CHECKED BY:
MS	RGB
DATE:	JOB No.:
FEBRUARY 2025	24-105
SCALE:	SHEET No.:
AS SHOWN	A0.01

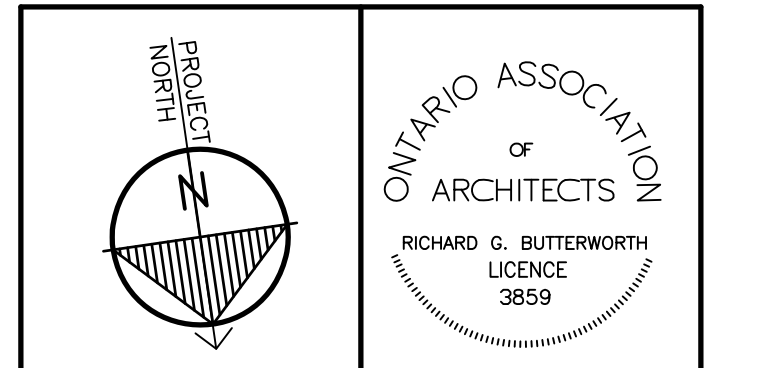
PLOT SCALE: 1/4" = 1'-0"



1 PARTIAL GROUND FLOOR PLAN - DEMOLITION
A1.01 1/4"=1'-0"

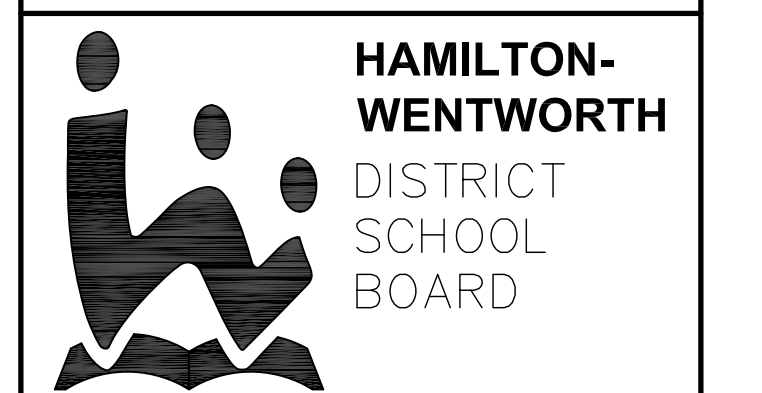


2 PARTIAL GROUND FLOOR REFLECTED CEILING PLAN - DEMOLITION
A1.01 1/4"=1'-0"



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- DEMOLITION LEGEND**
- ACP - EXISTING 24"x48" ACOUSTIC PANEL TO REMAIN
 - BR - EXISTING STEEL STRUCTURAL BRACKET TO REMAIN
 - C - EXISTING CONDUITS TO REMAIN (SEE ELEC.)
 - ELF - REMOVE EXISTING 1"x4" FLUORESCENT LIGHT FIXTURES (SEE ELEC.)
 - ES - REMOVE EXISTING SINK AND FAUCET (SEE MECH.)
 - HS - EXISTING HORN/STROBE TO REMAIN (SEE ELEC.)
 - JB - EXISTING JUNCTION BOX TO REMAIN (SEE ELEC.)
 - RFPB - REMOVE EXISTING FLAG POLE BRACKET
 - SB - EXISTING STEEL SUPPORT HSS TO REMAIN
 - T - EXISTING THERMOSTAT (SEE MECH.)
 - VH - REMOVE EXISTING UNIT HEATER (SEE MECH.)
 - VAT - EXISTING VINYL ACOUSTIC TILE
 - WFI - EXISTING WIFI TO REMAIN (SEE ELEC.)
 - [Hatched Box] EXISTING METAL CLADDING TO REMAIN
 - [Square Box] EXISTING ACOUSTIC TILE TO REMAIN
 - ER - EXISTING RECEPTACLE TO REMAIN (SEE ELEC.)
 - SW - EXISTING SWITCH TO REMAIN (SEE ELEC.)



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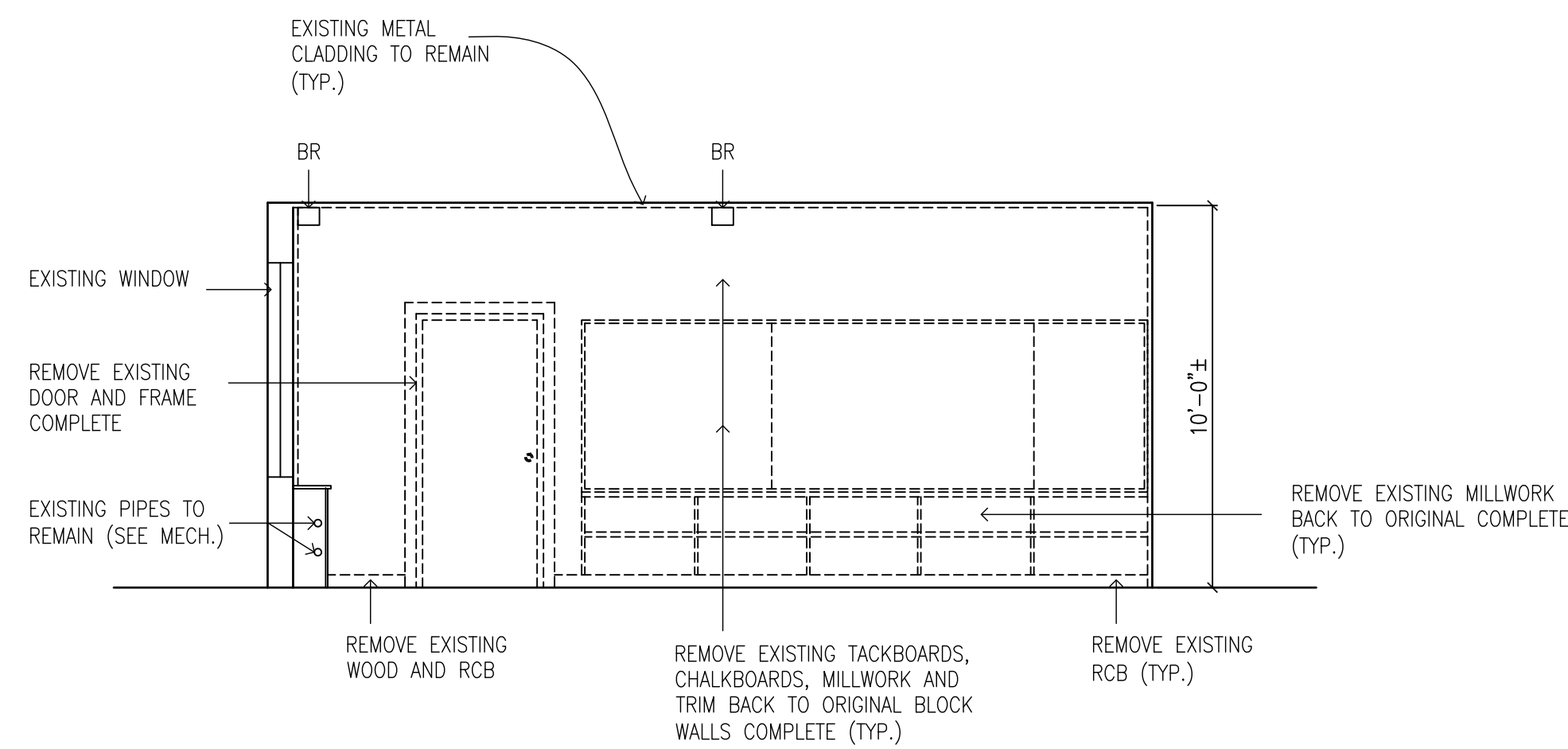
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ARCHITECTURE
INTERIORS
URBAN PLANNING
Ancaster Ontario

LISGAR ELEMENTARY SCHOOL
HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

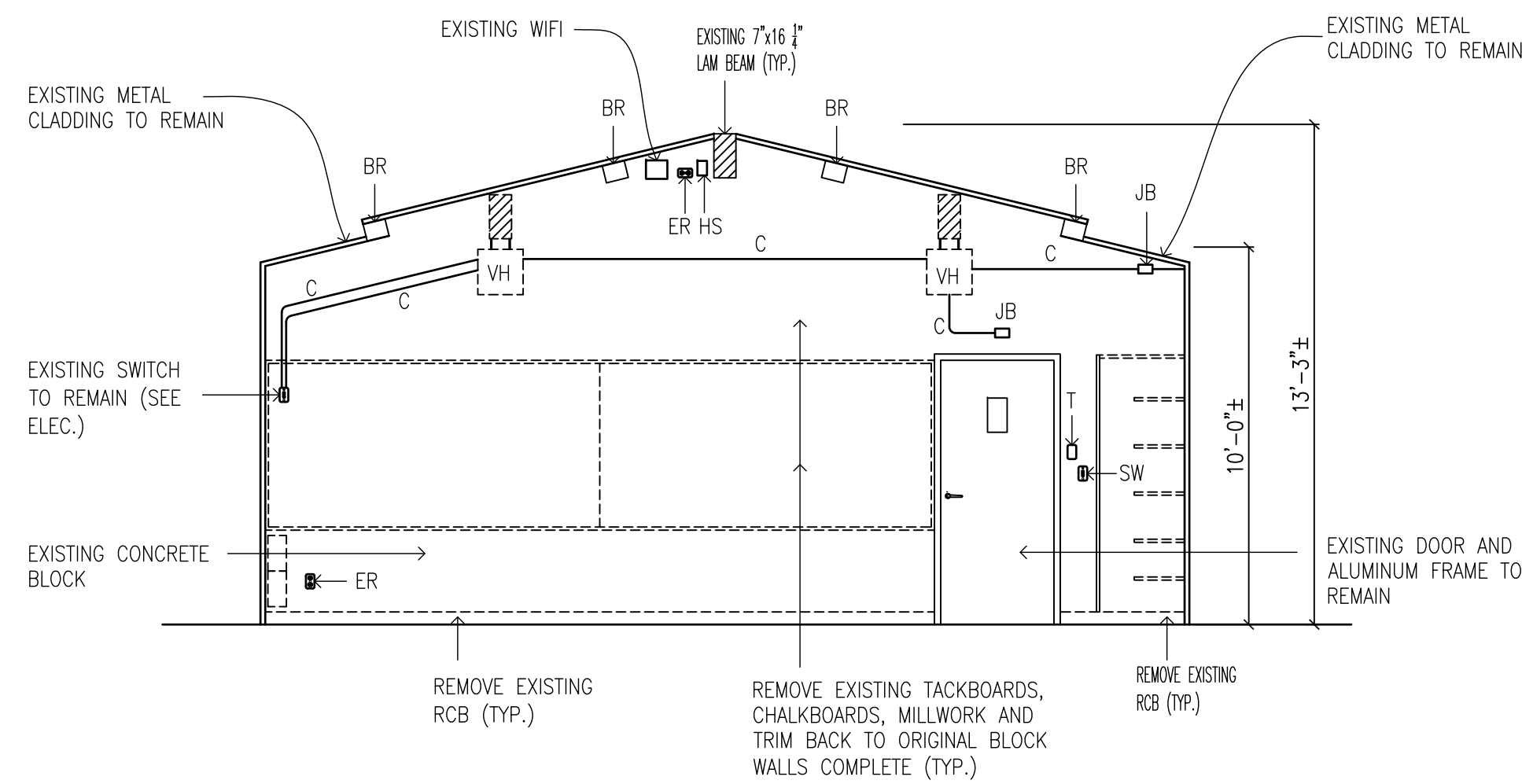
PARTIAL GROUND FLOOR AND REFLECTED CEILING PLAN DEMOLITION

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MS	RGB
DATE:	JOB No.:
FEBRUARY 2025	24-105
SCALE:	SHEET No.:
1/4"=1'-0"	A1.01

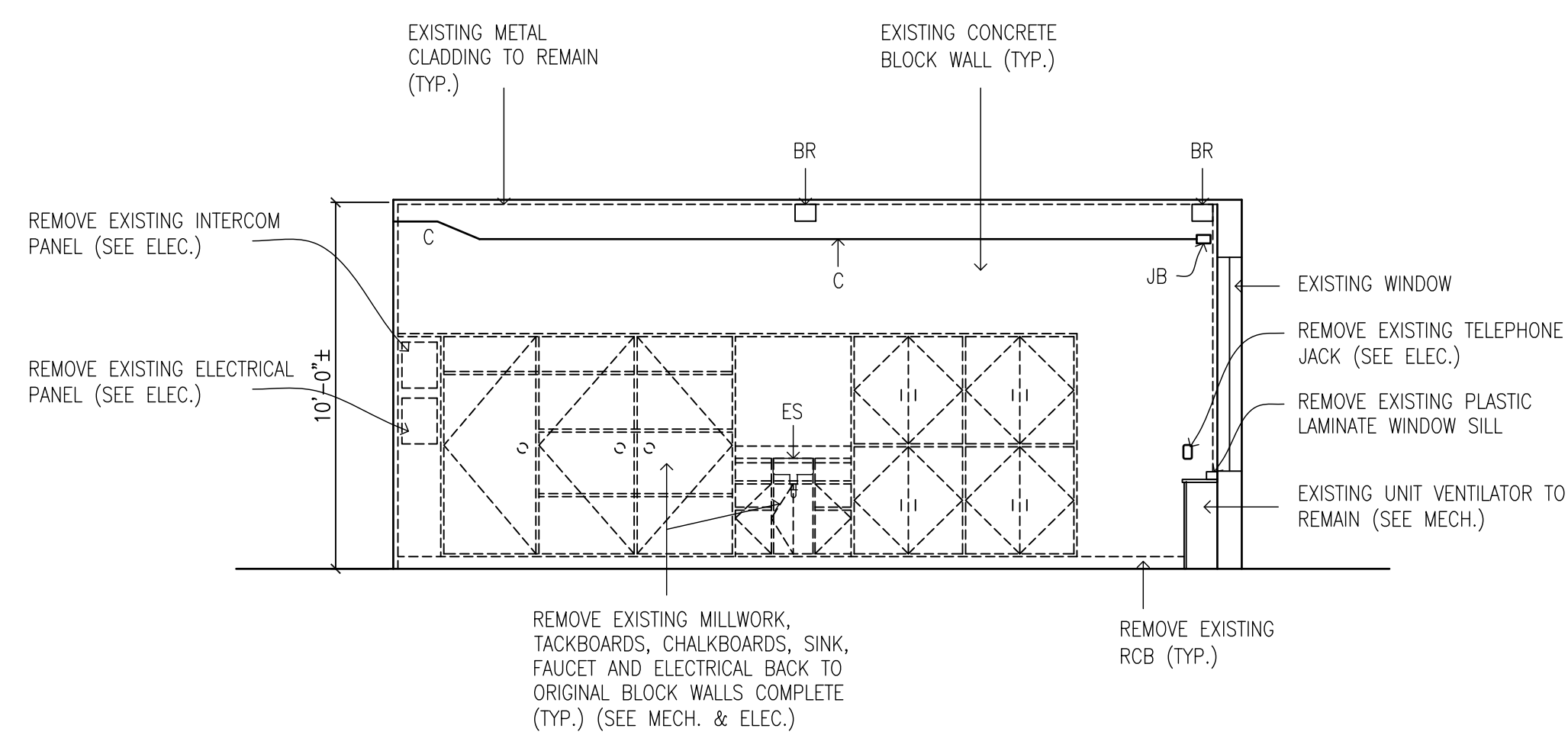
PLOT SCALE 1:1



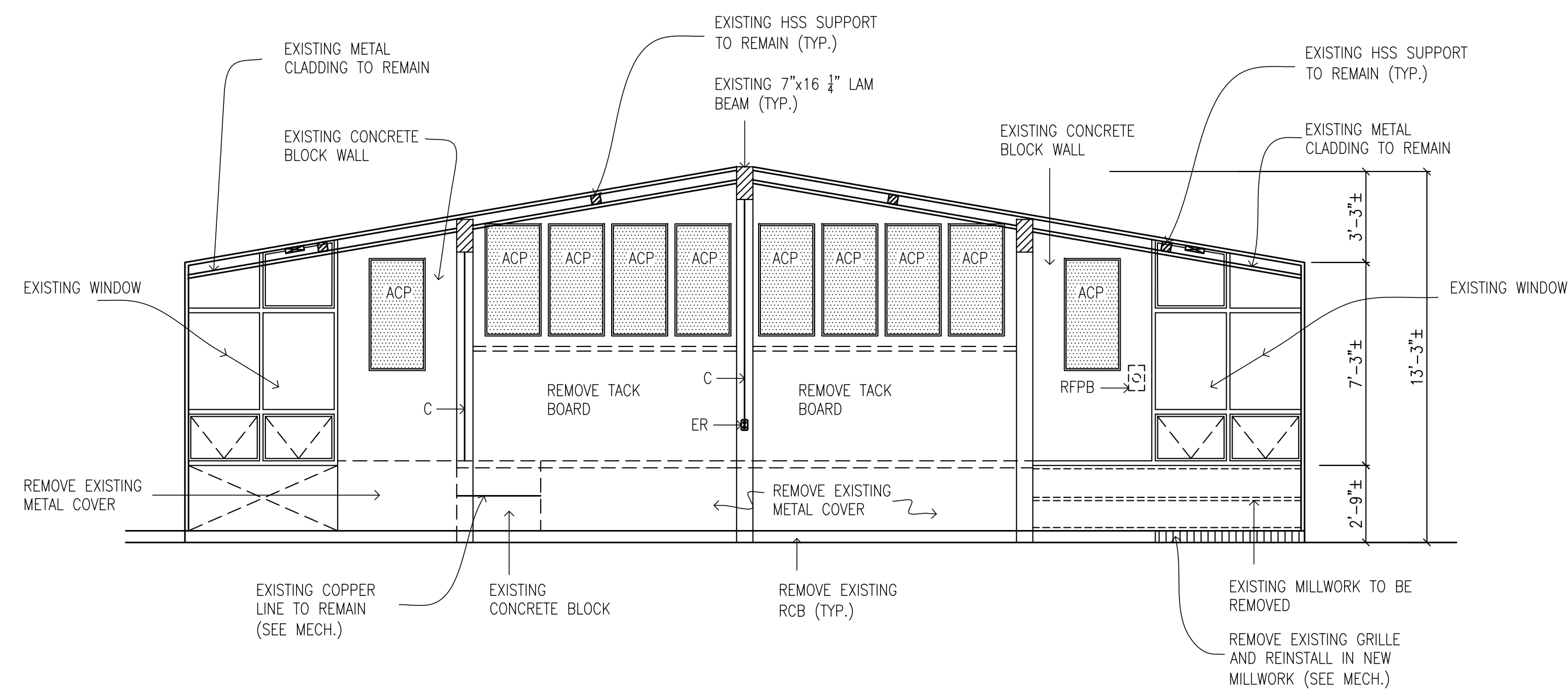
125 EXISTING MUSIC ROOM - ELEVATION "A"



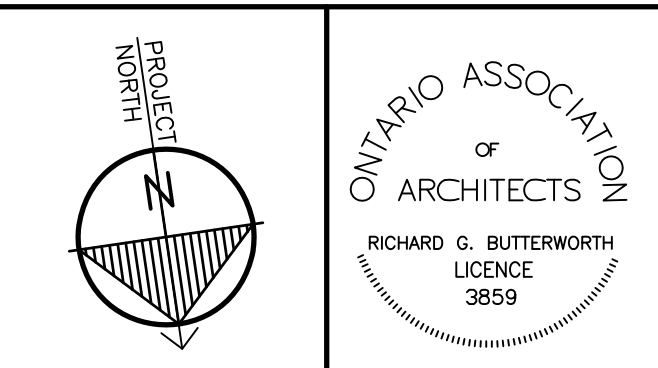
125 EXISTING MUSIC ROOM - ELEVATION "B"



125 EXISTING MUSIC ROOM - ELEVATION "C"



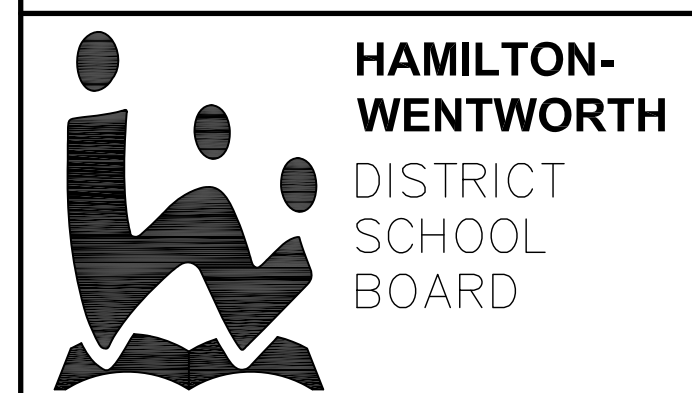
125 EXISTING MUSIC ROOM - ELEVATION "D"



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DEMOLITION LEGEND

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- C - EXISTING CONDUITS TO REMAIN (SEE ELEC.)
- ELF - REMOVE EXISTING 1'x4' FLUORESCENT LIGHT FIXTURES (SEE ELEC.)
- ES - REMOVE EXISTING SINK AND FAUCET (SEE MECH.)
- HS - EXISTING HORN/STROBE TO REMAIN (SEE ELEC.)
- JB - EXISTING JUNCTION BOX TO REMAIN (SEE ELEC.)
- RFPB - REMOVE EXISTING FLAG POLE BRACKET
- SB - EXISTING STEEL SUPPORT HSS TO REMAIN
- T - EXISTING THERMOSTAT (SEE MECH.)
- VH - REMOVE EXISTING UNIT HEATER (SEE MECH.)
- VAT - EXISTING VINYL ACOUSTIC TILE
- WIFI - EXISTING WIFI TO REMAIN (SEE ELEC.)
- EXISTING METAL CLADDING TO REMAIN (hatched pattern)
- EXISTING ACOUSTIC TILE TO REMAIN (square pattern)
- ER - EXISTING RECEPTACLE TO REMAIN (SEE ELEC.)
- SW - EXISTING SWITCH TO REMAIN (SEE ELEC.)



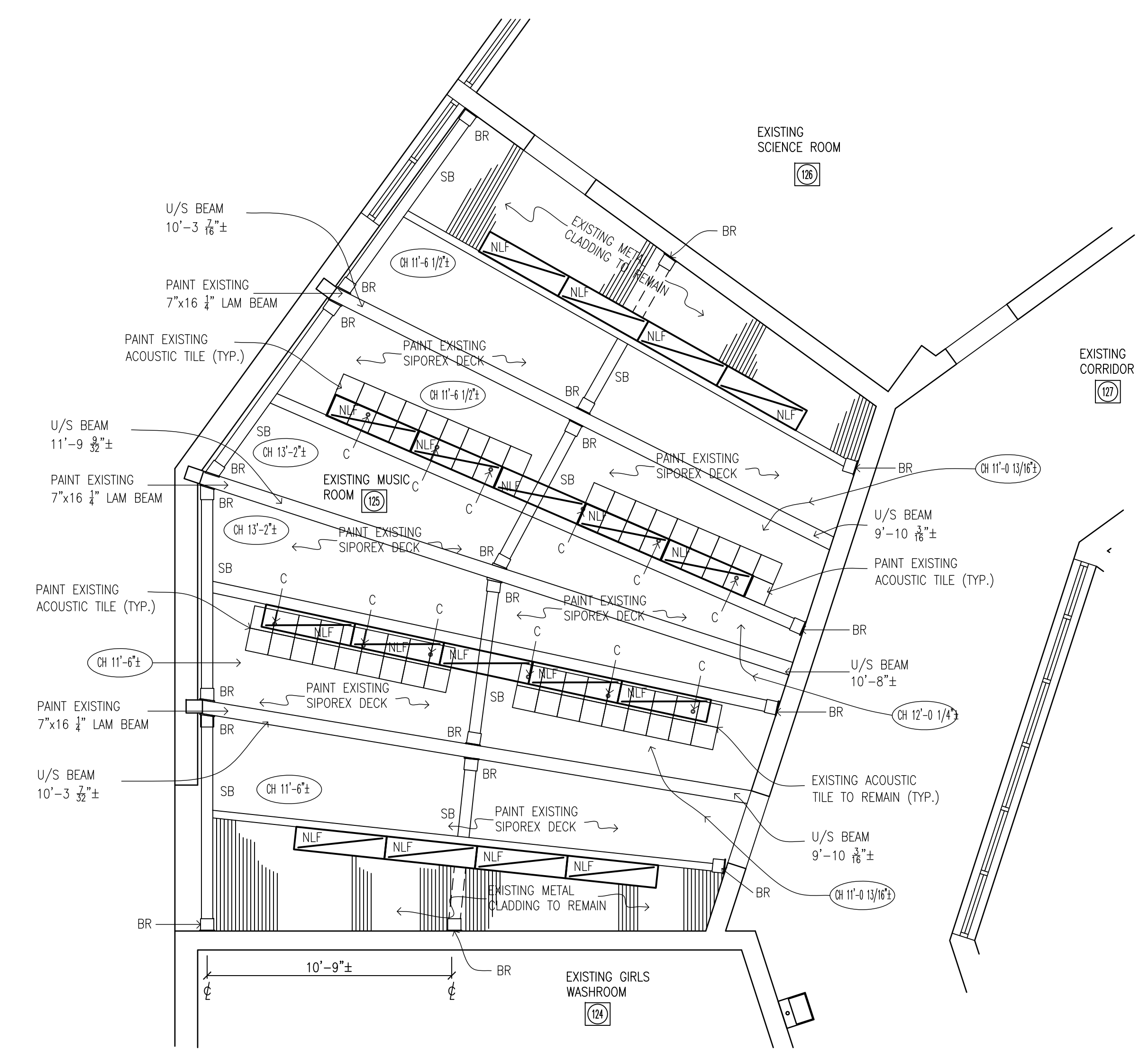
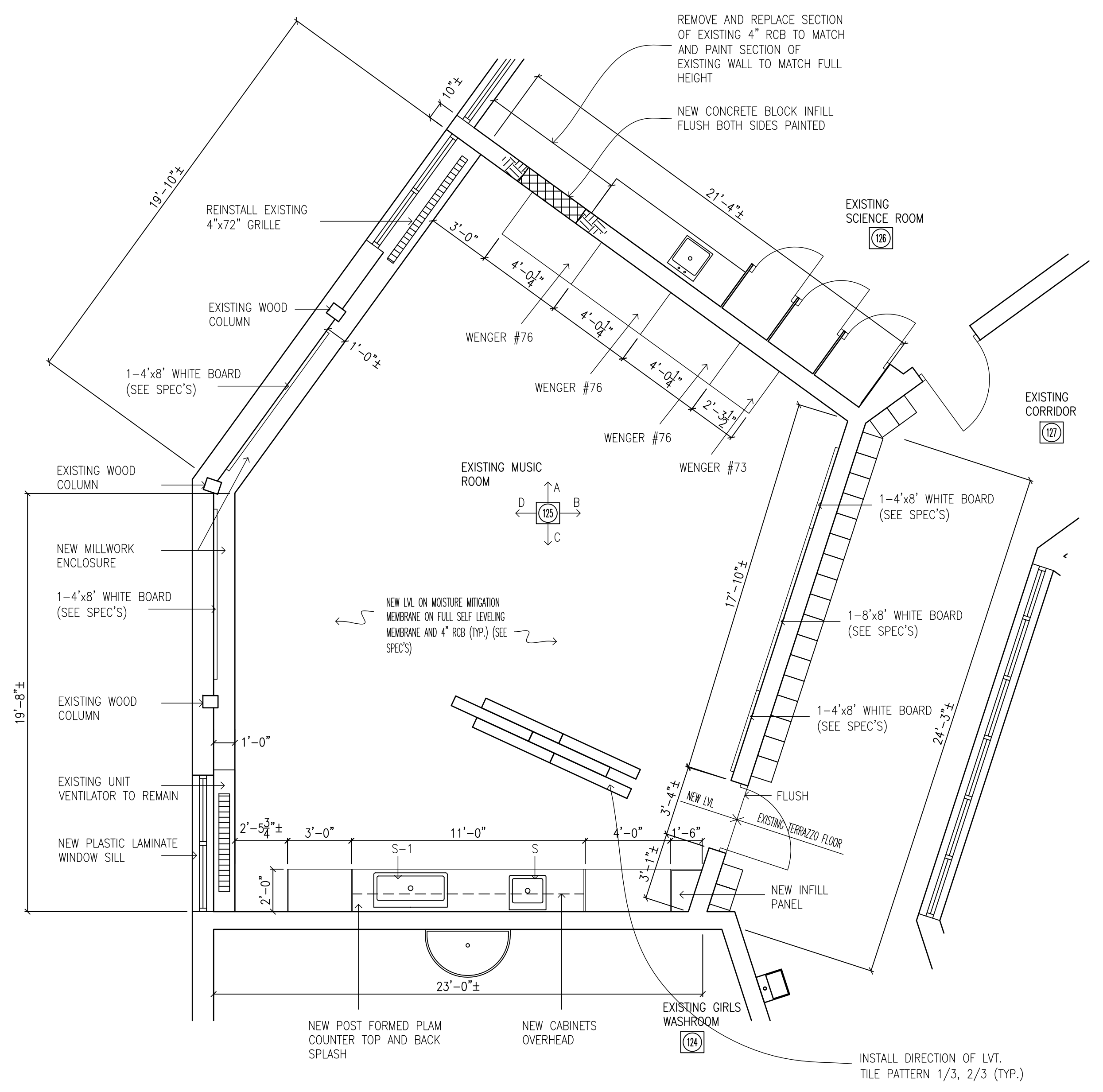
2.	ISSUED FOR TENDER	FEB. 6, 2025
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No.	REVISIONS	DATE

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 HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
 110 ANSON AVENUE
 HAMILTON, ONTARIO

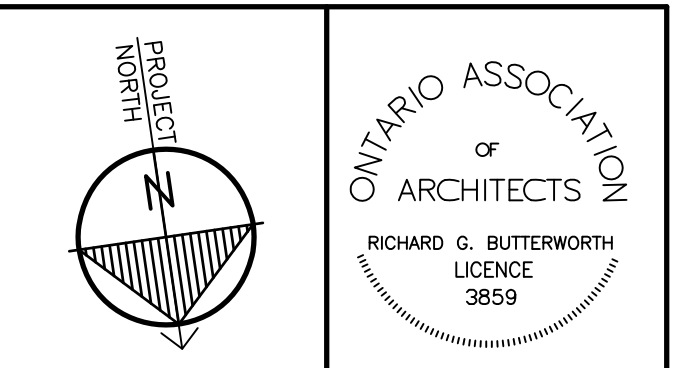
ROOM ELEVATIONS - DEMOLITION

DRAWN BY:	CHECKED BY:
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FEBRUARY 2025	24-105
SCALE:	SHEET No.:
1/4"=1'-0"	A1.02



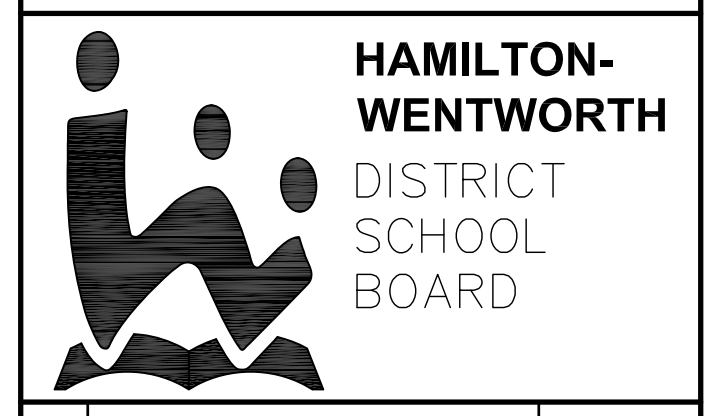
1 PARTIAL GROUND FLOOR PLAN - PROPOSED
1/4"=1'-0"

2 PARTIAL GROUND FLOOR REFLECTED CEILING PLAN - PROPOSED
1/4"=1'-0"



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 - BR - EXISTING STEEL STRUCTURAL BRACKET TO REMAIN
 - C - EXISTING CONDUITS TO REMAIN (SEE ELEC.)
 - NLF - NEW LED LIGHT FIXTURES (SEE ELEC.)
 - S - NEW SINK AND FAUCET (SEE MECH.)
 - S-1 - NEW SINK AND FAUCET (SEE MECH.)
 - HS - EXISTING HORN/STROBE TO REMAIN (SEE ELEC.)
 - JB - EXISTING JUNCTION BOX TO REMAIN (SEE ELEC.)
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 - [Square Box] - EXISTING ACOUSTIC TILE TO REMAIN
 - ER - EXISTING RECEPTACLE TO REMAIN (SEE ELEC.)
 - R - NEW RECEPTACLE (SEE ELEC.)
 - SW - EXISTING SWITCH TO REMAIN (SEE ELEC.)
 - DR - NEW 2-HDMI AND 1-RECEPTACLE (SEE ELEC.)
 - WM - NEW WIRE MOLD SURFACE MOUNT (SEE ELEC.)
 - WB - NEW WHITE BOARD (SEE SPEC'S)
 - TB - NEW TACK BOARD (SEE SPEC'S)



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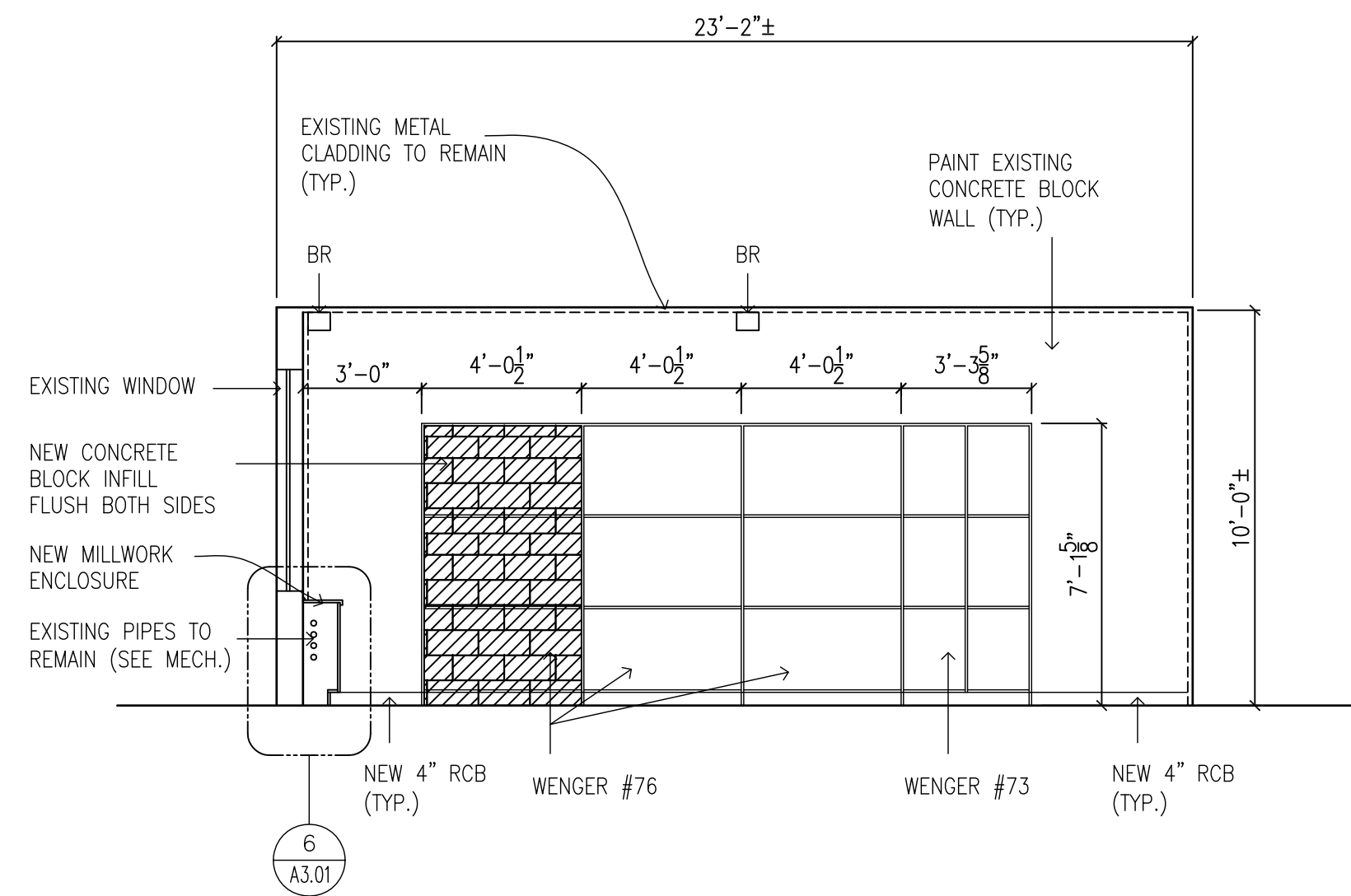
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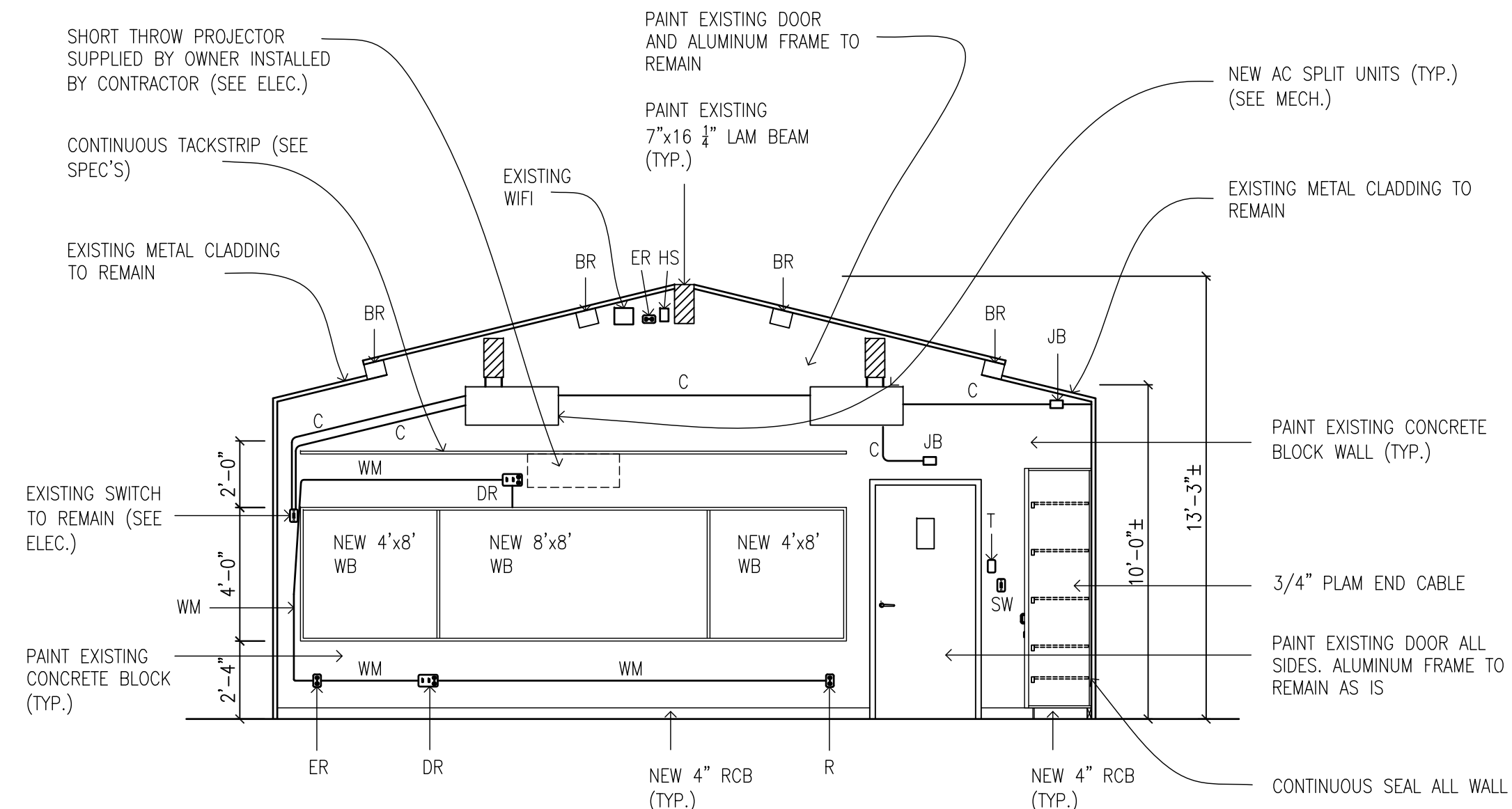
PARTIAL GROUND FLOOR AND REFLECTED CEILING PLAN PROPOSED

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DATE:	JOB No.:
FEBRUARY 2025	24-105
SCALE:	SHEET No.:
1/4"=1'-0"	A2.01

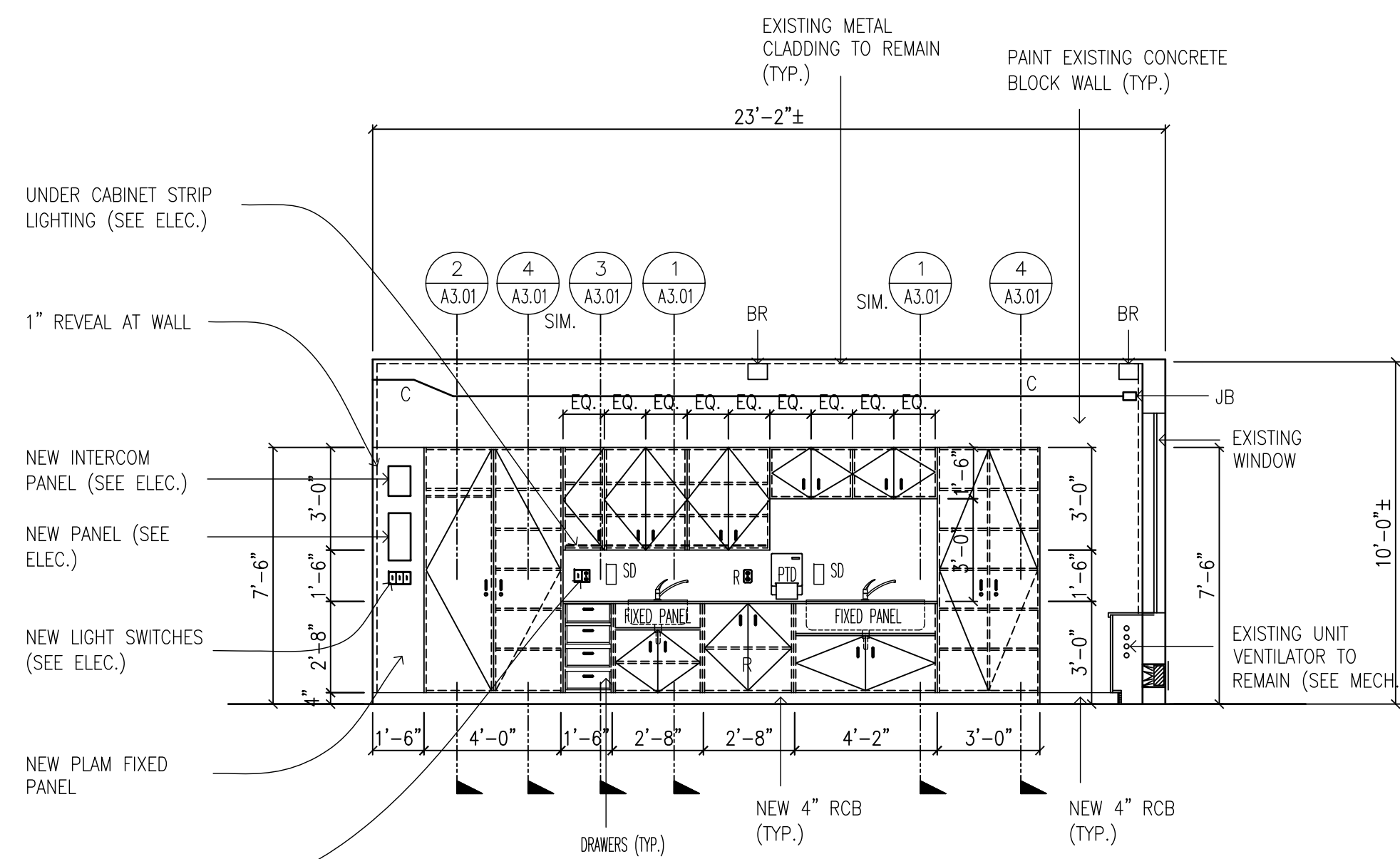
PLOT SCALE: 1/4"=1'-0"



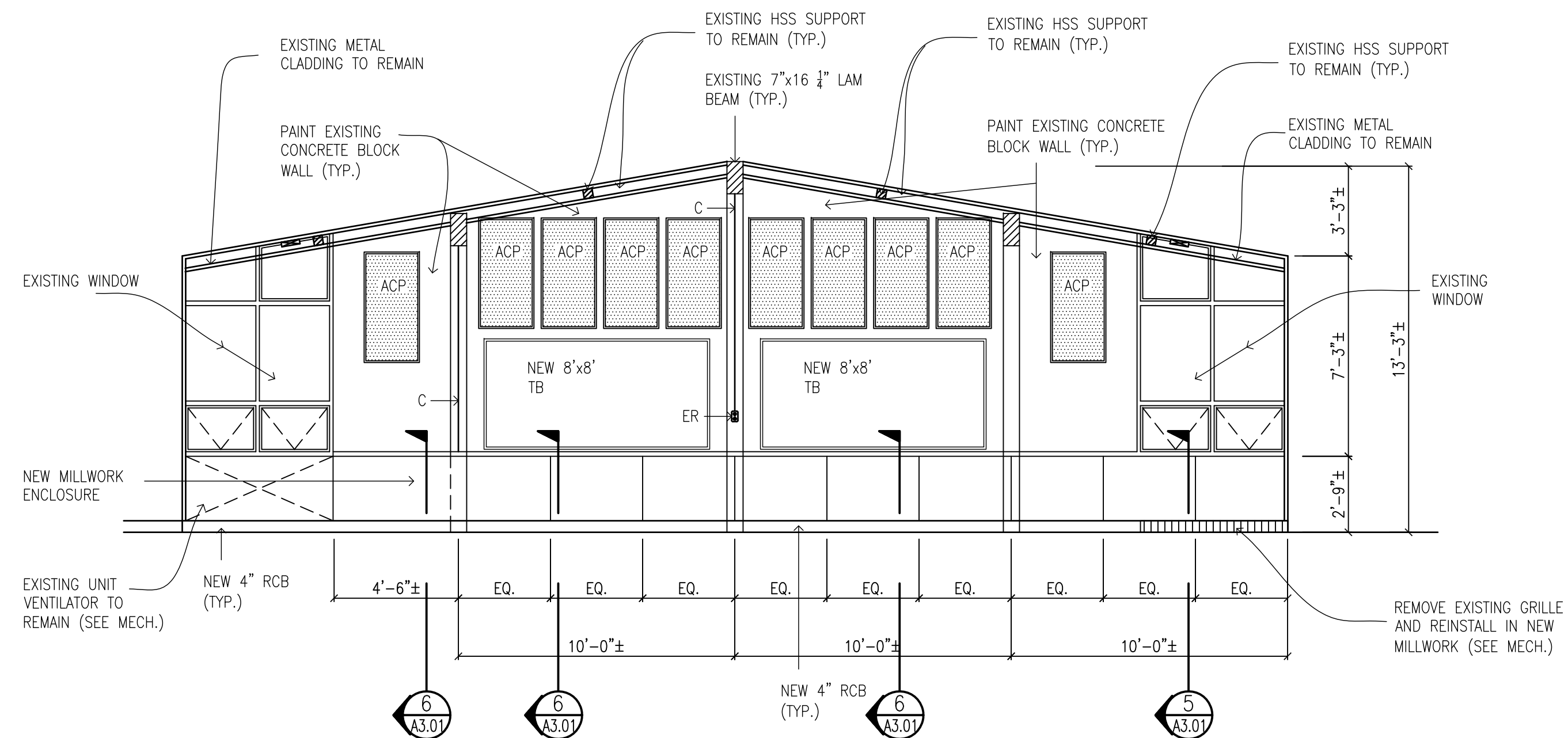
125 MUSIC ROOM - ELEVATION "A"



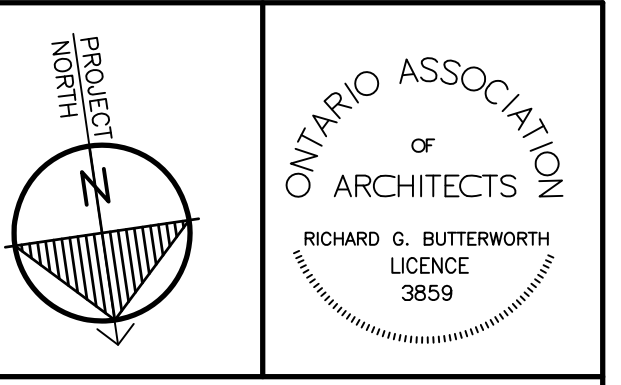
125 MUSIC ROOM - ELEVATION "B"



125 MUSIC ROOM - ELEVATION "C"



125 MUSIC ROOM - ELEVATION "D"



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- SB - EXISTING STEEL SUPPORT HSS TO REMAIN
- T - EXISTING THERMOSTAT (SEE MECH.)
- WIFI - EXISTING WIFI TO REMAIN (SEE ELEC.)
- [Hatched Box] - EXISTING METAL CLADDING TO REMAIN
- [White Box] - EXISTING ACOUSTIC TILE TO REMAIN
- ER - EXISTING RECEPTACLE TO REMAIN (SEE ELEC.)
- R - NEW RECEPTACLE (SEE ELEC.)
- SW - EXISTING SWITCH TO REMAIN (SEE ELEC.)
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- WM - NEW WIRE MOLD SURFACE MOUNT (SEE ELEC.)
- WB - NEW WHITE BOARD (SEE SPEC'S)
- TB - NEW TACK BOARD (SEE SPEC'S)



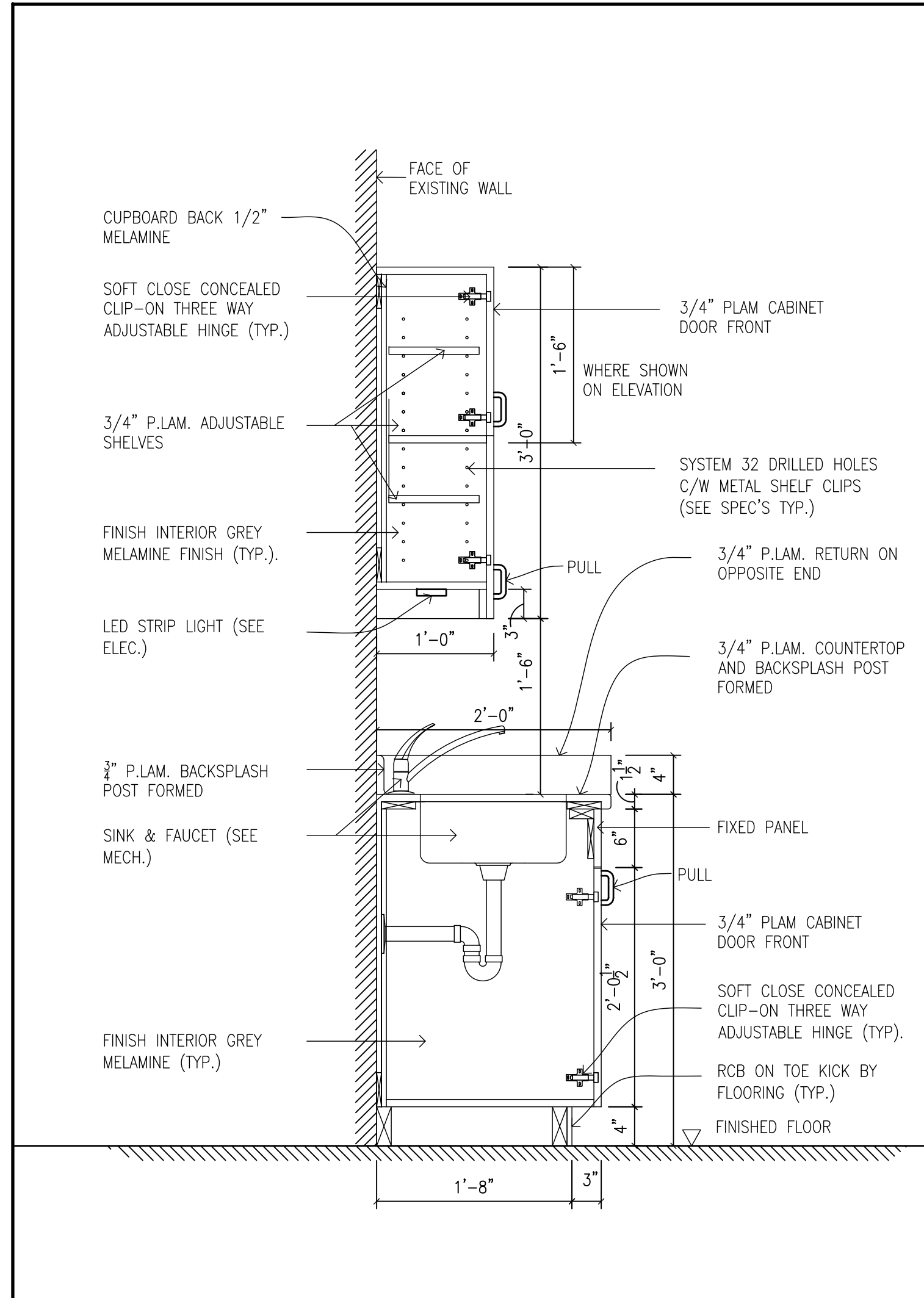
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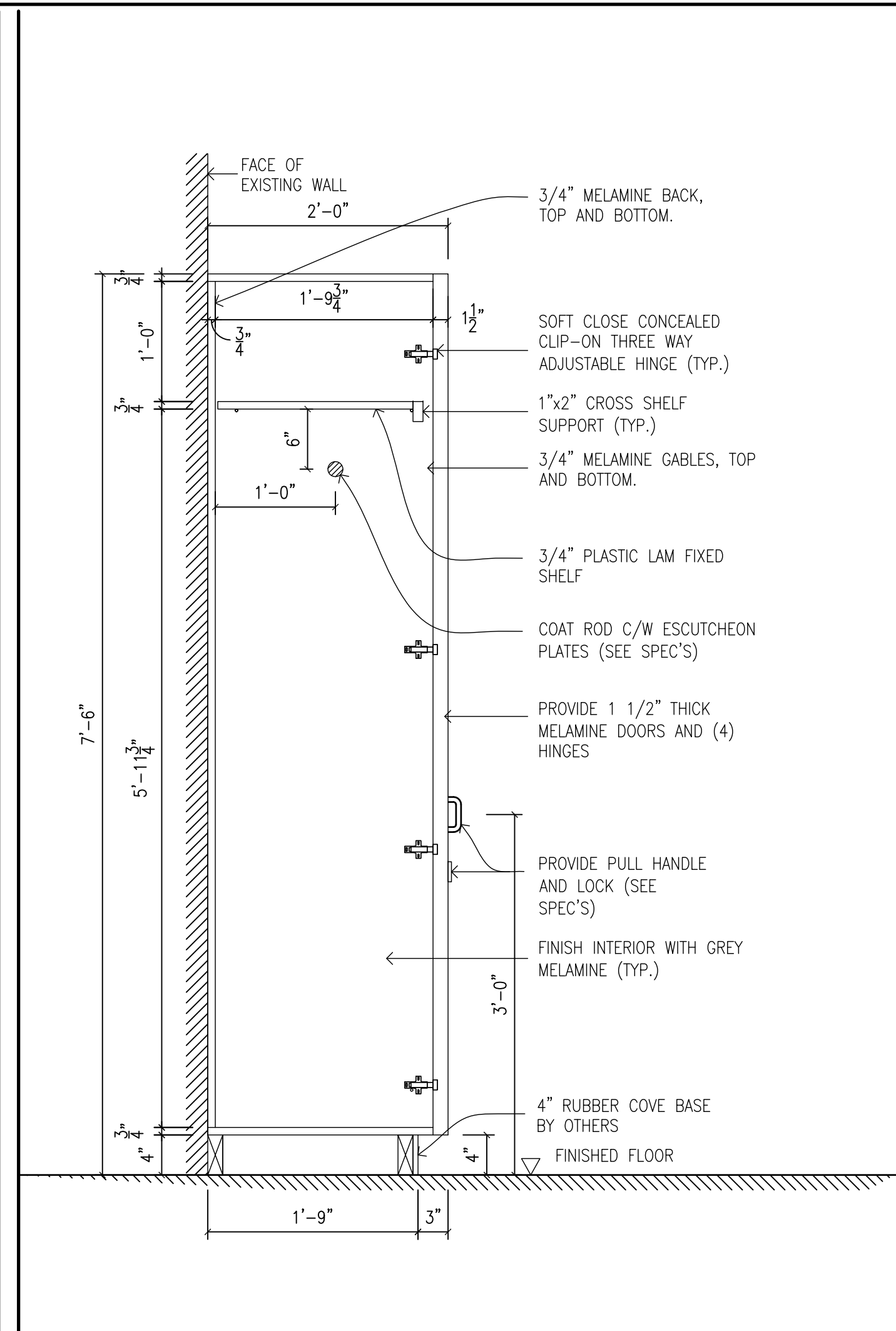
LISGAR ELEMENTARY SCHOOL
HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

ROOM ELEVATIONS - PROPOSED

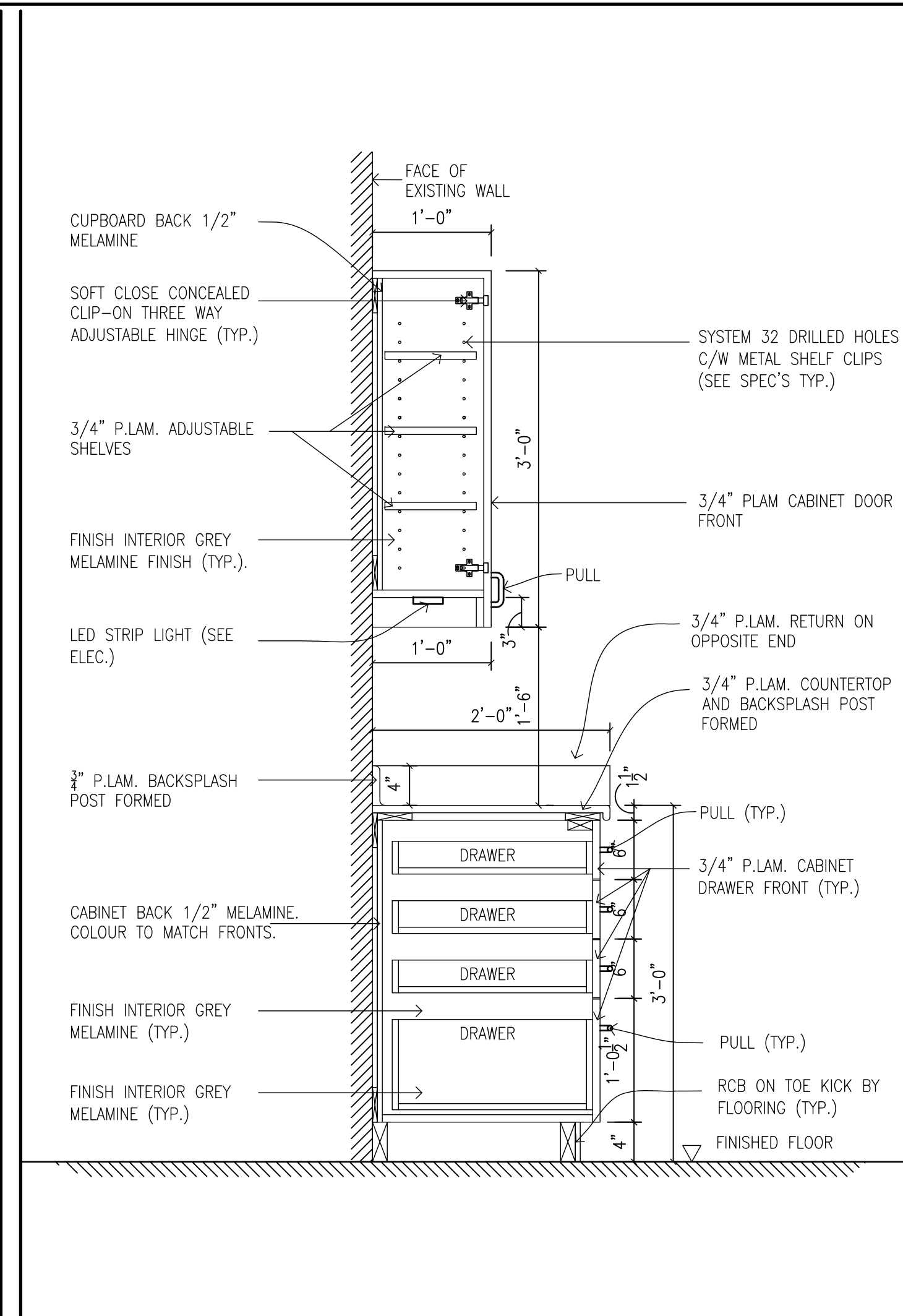
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DATE:	JOB No.:
FEBRUARY 2025	24-105
SCALE:	SHEET No.:
1/4"=1'-0"	A2.02



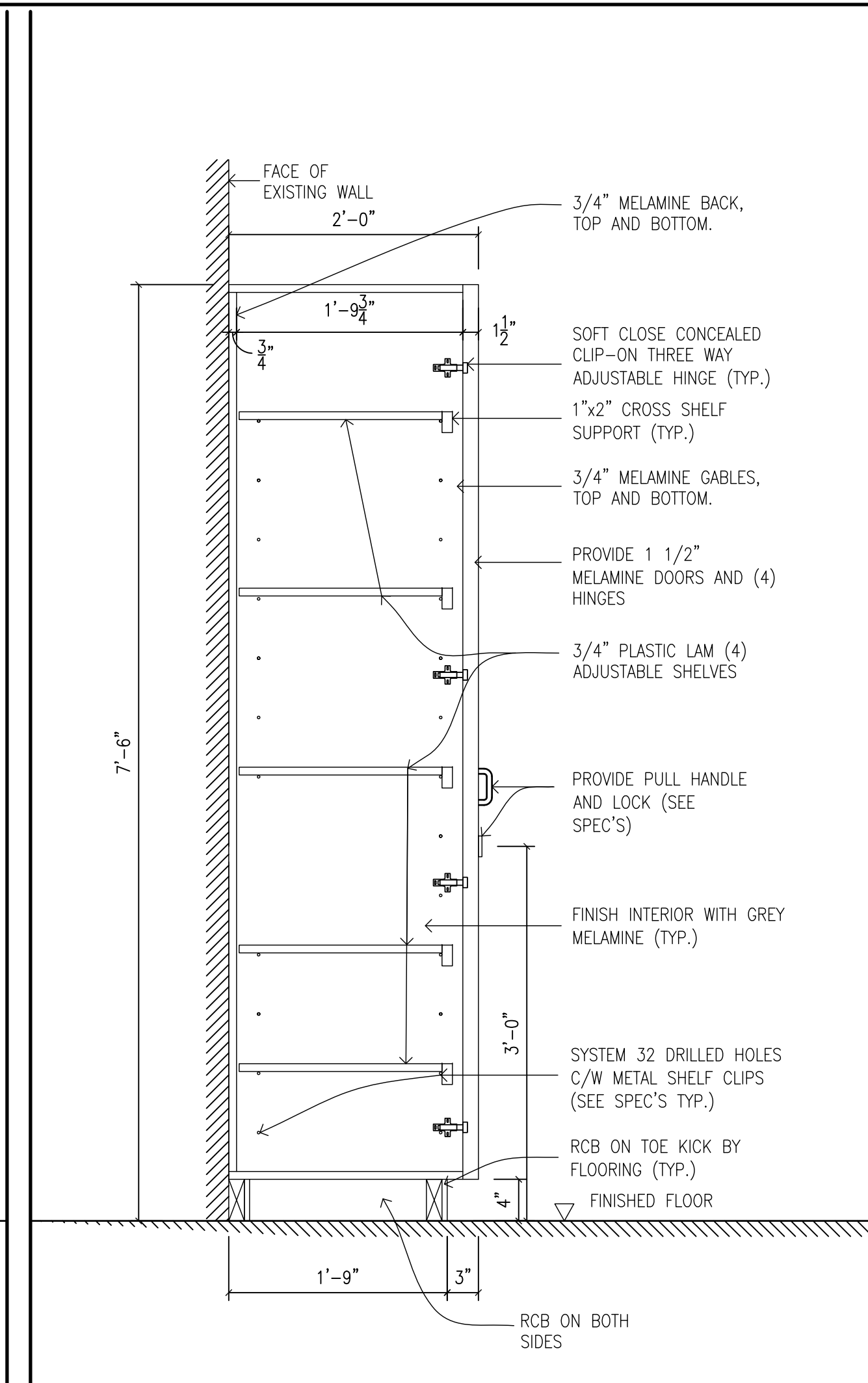
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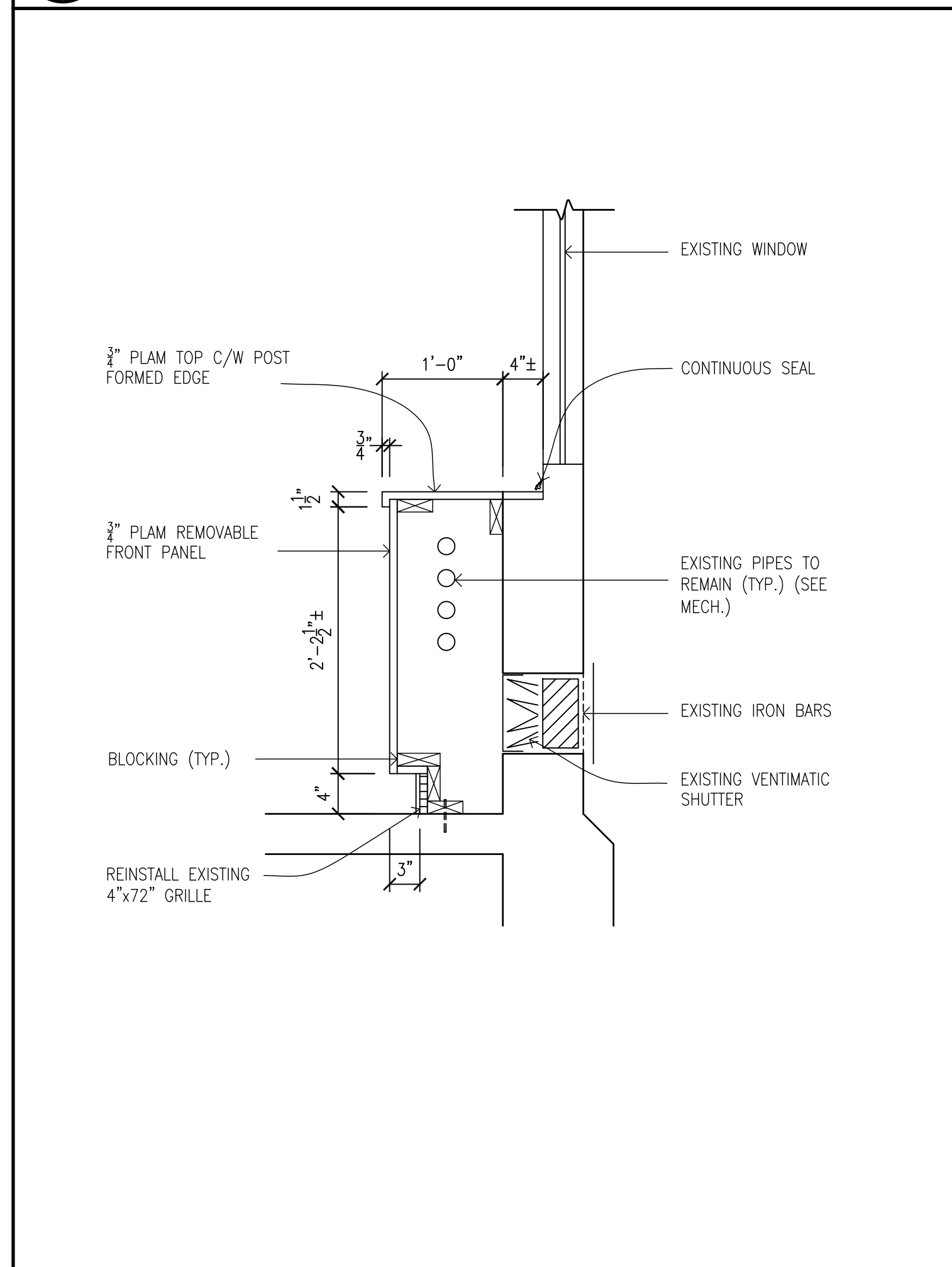
2 MILLWORK SECTION
A3.01 1"=1'-0"



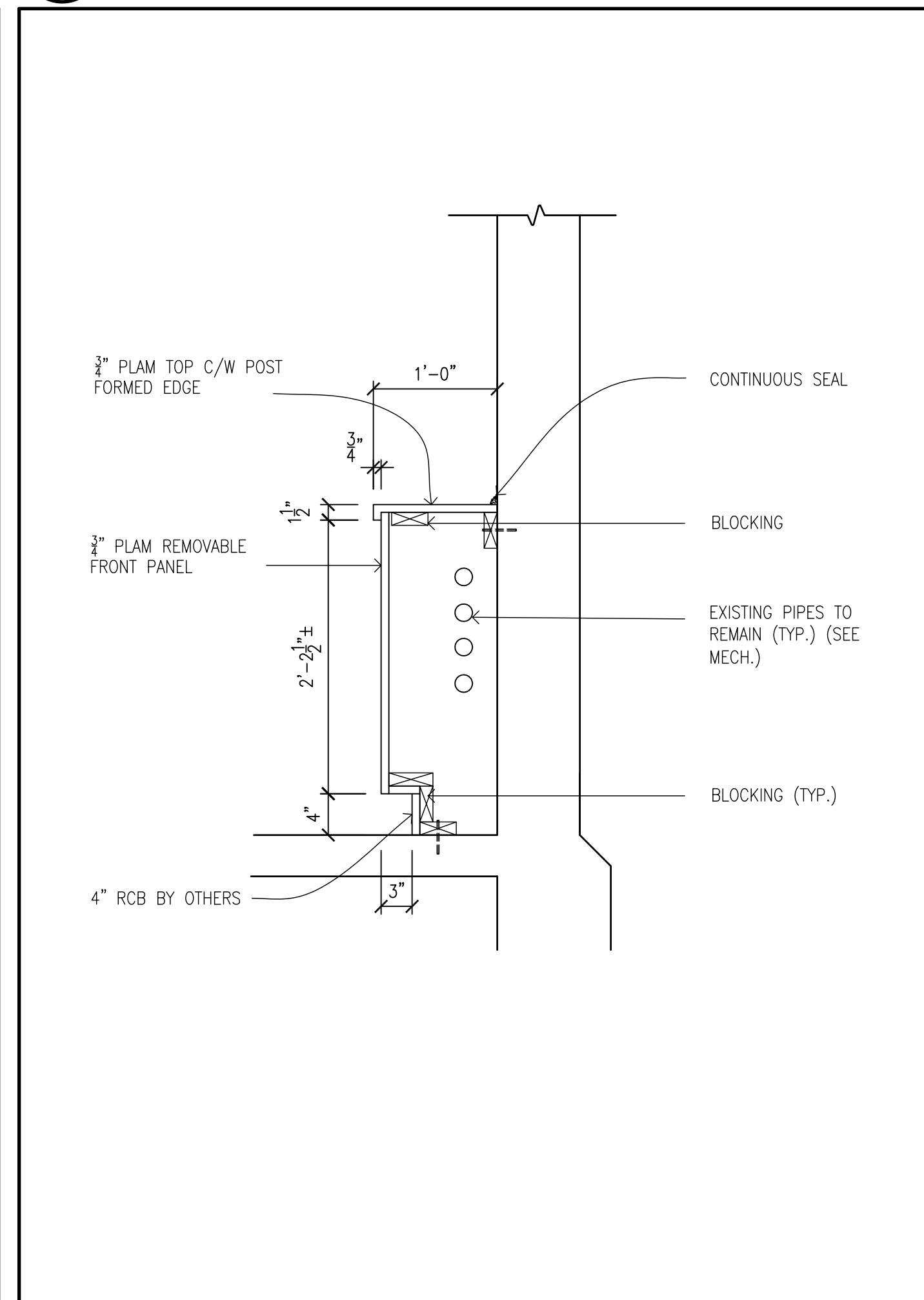
3 MILLWORK SECTION
A3.01 1"=1'-0"



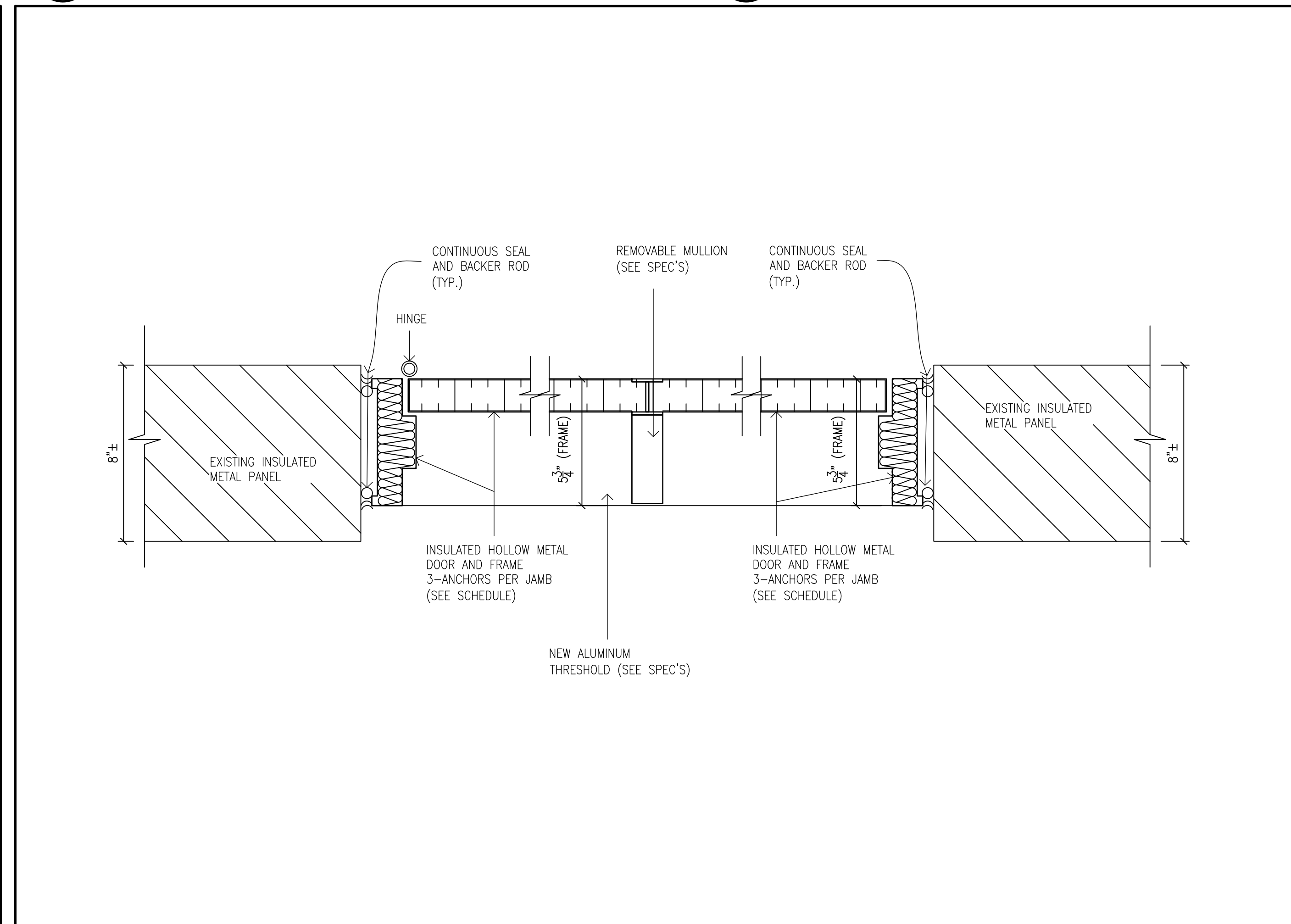
4 MILLWORK SECTION
A3.01 1"=1'-0"



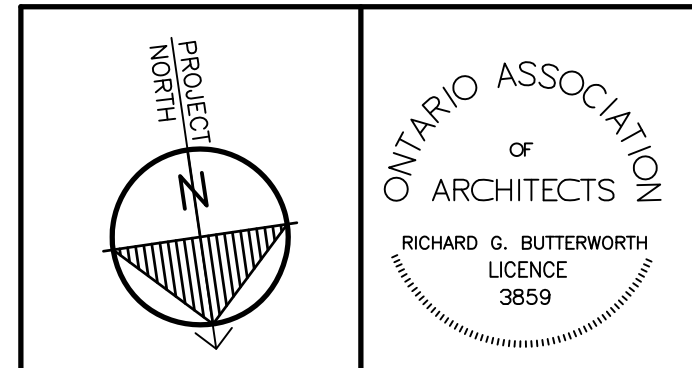
5 MILLWORK SECTION
A3.01 1"=1'-0"



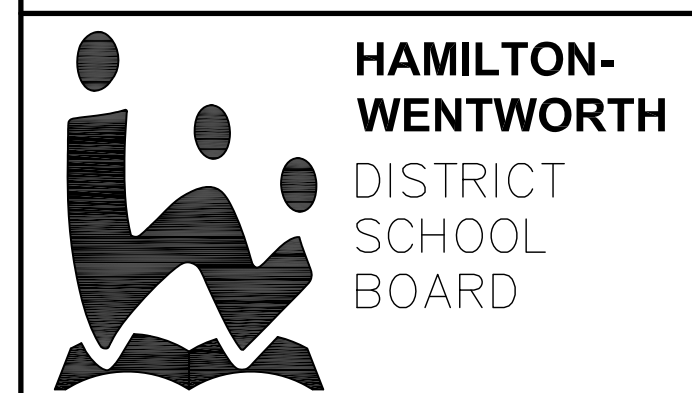
6 MILLWORK SECTION
A3.01 1"=1'-0"



7 DOOR DETAIL
A3.01 3"=1'-0"



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No.	REVISIONS	DATE

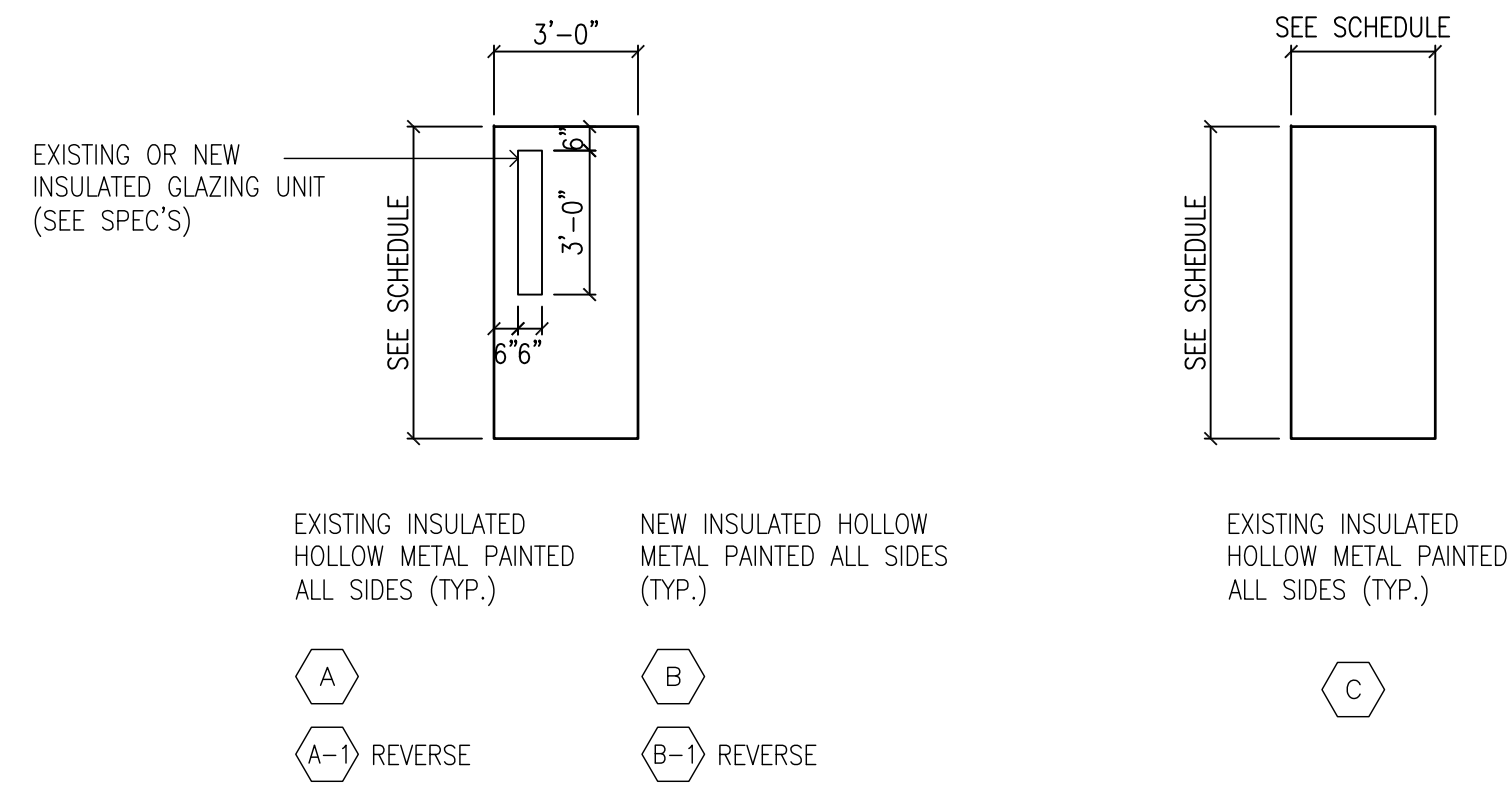
RICHARD G. BUTTERWORTH
ARCHITECT INC.
Architecture
Interior
Urban Planning
Ancaster Ontario

LISGAR ELEMENTARY SCHOOL
HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

CABINET ELEVATIONS AND MILLWORK SECTIONS PROPOSED

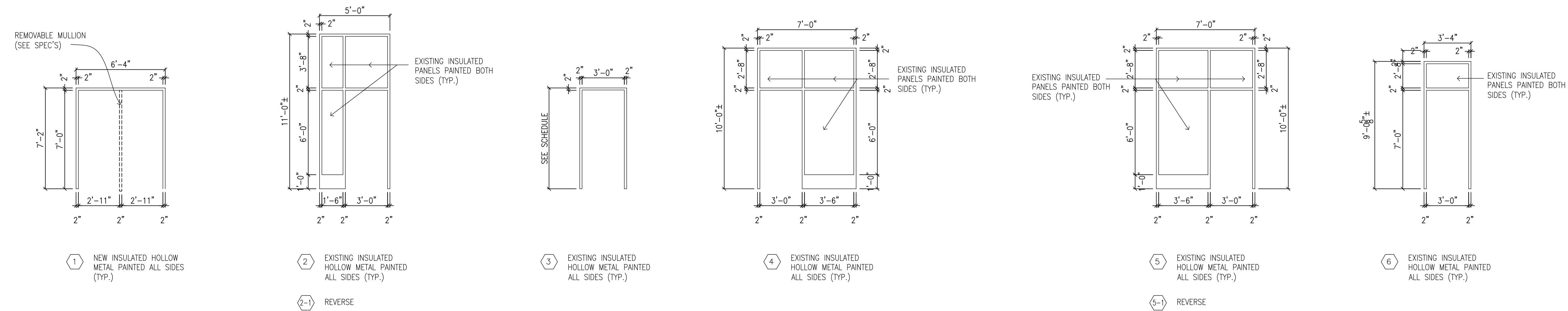
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FEBRUARY 2025	24-105
SCALE:	SHEET No.:
AS SHOWN	A3.01

PLOT SCALE: 1/4"

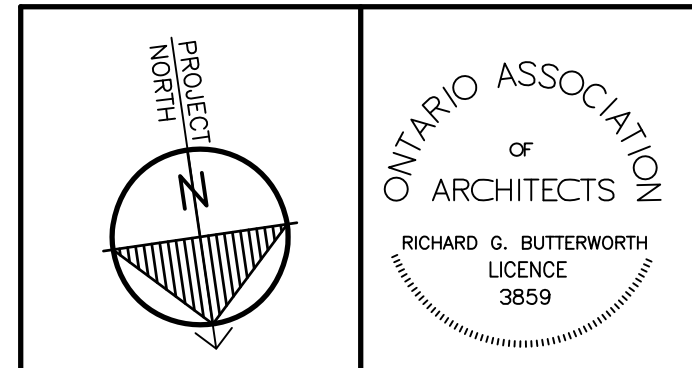


DOOR										FRAME					THRES.	REMARKS
No.	QUANTITY	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLASS	LABEL	TYPE	MATERIAL	FINISH	GLASS	LABEL		
D1	1	3'-0"	7'-0"	1 3/4"	A-1	HM	PAINT	EXISTING	-	5	HM	PAINT	-	-	EXISTING	
D2	1	3'-0"	7'-0"	1 3/4"	C	HM	PAINT	-	-	3	HM	PAINT	-	-		
D3	2	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING S.S.	EXISTING	-	-	EXISTING	EXISTING	EXISTING	-	-		
D4	1	3'-0"	7'-0"	1 3/4"	A-1	HM	PAINT	EXISTING	-	5-1	HM	PAINT	-	-		
D5	1	3'-0"	7'-0"		A			EXISTING	-	2	HM		-	-		
D6	2	3'-0"	7'-0"		B/B-1			INSULATED UNIT	-	1	INSULATED HM		-	-	ALUMINUM	SEE DETAIL 7/A3.01 HARDWARE (SEE SPEC'S)
D7	2	3'-0"	7'-0"		B/B-1			INSULATED UNIT	-	1	INSULATED HM		-	-	ALUMINUM	SEE DETAIL 7/A3.01 HARDWARE (SEE SPEC'S). NEW ELECTRIC STRIKE AND REMOVE AND REINSTALL EXISTING CARD READER
D8	1	3'-0"	7'-0"		C			-	-	3	HM		-	-	EXISTING	
D9	1	3'-0"	6'-6"		C			-	-	3			-	-		
D10	1	3'-0"	7'-0"		A-1			EXISTING	-	2-1			-	-		
D11	1	3'-0"	6'-6"		C			-	-	6			-	-		

DOOR TYPES



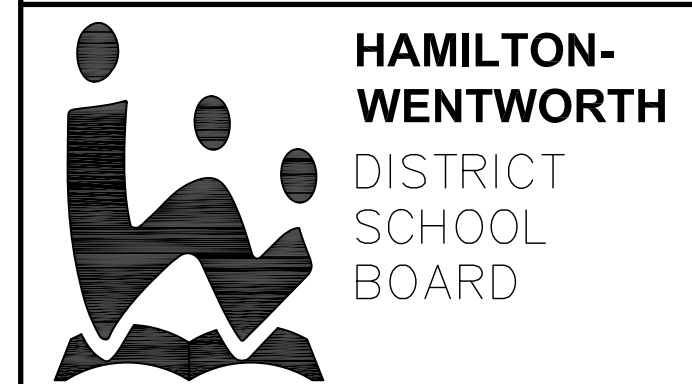
FRAME TYPES



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DOOR AND FRAME TYPES SCHEDULE

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MECHANICAL LEGEND	
HEATING, VENTILATION AND AIR CONDITIONING (HVAC)	
	RIGID DUCTWORK
	ACOUSTICALLY LINED DUCTWORK
	FLEXIBLE ROUND DUCTWORK
	SUPPLY DUCTWORK RISER UP
	EXHAUST/RETURN DUCTWORK RISER UP
	SUPPLY DUCTWORK RISER DOWN
	EXHAUST/RETURN DUCTWORK RISER DOWN
	BALANCING DAMPER
	SPLITTER DAMPER
	DOOR UNDERCUT
	DOOR GRILLE
	CAPPED DUCTWORK
	SPIN-ON FITTING WITH BALANCING DAMPER
	SUPPLY AIR DIFFUSER
	RETURN/EXHAUST AIR GRILLE
	FLEXIBLE CONNECTION
	SUPPLY AIR GRILLE - WALL-MOUNTED
	RETURN AIR GRILLE - WALL-MOUNTED
	FLEXIBLE DUCT CONNECTION TO RIGID DUCTWORK
	SQUARE ELBOW WITH AIR TURNING VANES
	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR IN DUCT
	MOTORIZED DAMPER
	BACK DRAFT DAMPER
	BALANCING DAMPER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH INLET
	AIR HANDLING UNIT SILENCER AS PER SILENCER SCHEDULE
	A-84 DENOTES DIFFUSER TYPE - DENOTES AIRFLOW (IN L/S) 25 DENOTES NECK SIZE. DUCTWORK TO MATCH.
	LOCAL ELECTRONIC THERMOSTAT
	STANDALONE THERMOSTAT
	PUMP
	HOT WATER SUPPLY - HEATING
	HOT WATER RETURN - HEATING
	HOT WATER REVERSE RETURN - HEATING
	REFRIGERATION LINE - LIQUID
	REFRIGERATION LINE - GAS
	CONDENSATE LINE
	NATURAL GAS LINE
	NATURAL GAS VENT LINE
	COMPRESSED AIR LINE
	ISOLATION VALVE. TYPE AS PER SPECIFICATION
	BALANCING VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	CHECK VALVE
	UNION
	MANUAL AIR VENT
	DENOTES EXISTING PIPING TO BE REMOVED
	DENOTES EXISTING PIPING TO REMAIN
	DENOTES NEW PIPING
	GAS METER
	PROPANE METER
	ELECTRIC HEAT TRACING; DIVISION 15 UNLESS OTHERWISE NOTED
	PRESSURE GAUGE
	THERMOMETER
	PIPE UP
	PIPE DOWN

MECHANICAL LEGEND	
HEATING, VENTILATION AND AIR CONDITIONING (HVAC)	
	WALL FIN HEATER CV-A DENOTES TYPE 7000 DENOTES HEAT OUTPUT IN WATTS 0.15 DENOTES FLOW RATE IN L/S
	FORCED FLOW HEATER FFH-A DENOTES TYPE REFER TO FORCED FLOW HEATER SCHEDULE FOR HEAT OUTPUT AND FLOW RATE
	VAV BOX 1-101 4 125 75
PLUMBING AND DRAINAGE	
	ABOVE-GROUND STORM
	UNDERGROUND STORM
	ABOVE-GROUND SANITARY
	UNDERGROUND SANITARY
	PUMPED SANITARY
	RUNNING TRAP
	PLUMBING TRAP
	SANITARY VENT
	SANITARY CLEANOUT IN ACCESSIBLE CEILING SPACE
	SANITARY CLEANOUT IN SLAB
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	BACKFLOW PREVENTER - SUITABLE FOR SERVICE INTENDED
	WATER METER
	HOSE BIBB
	NON-FREEZE HOSE BIBB
	VENT THROUGH ROOF
	RAIN WATER LEADER
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	ROOF DRAIN
CONTROLS	
	BAS - TEMPERATURE SENSOR - IN PIPING
	BAS - CURRENT SENSOR
	BAS - PRESSURE SWITCH
	BAS - FLOW SWITCH
	BAS - ANALOG INPUT
	BAS - ANALOG OUTPUT
	BAS - DIGITAL INPUT
	BAS - DIGITAL OUTPUT
FIRE PROTECTION	
	FIRE EXTINGUISHER IN ENCLOSURE C/W MOUNTING BRACKET
	FIRE EXTINGUISHER C/W MOUNTING BRACKET
	FIRE BLANKET
ACRONYMS	
LABEL	DESCRIPTION
AD	ACCESS DOOR
AC	AIR CONDITIONER
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
CAP	CAP EXISTING SERVICE
CD	CONDENSATE
CTE	CONNECT TO EXISTING CUT POINT
CUT	CUT POINT
DF	DRINKING FOUNTAIN
EA	EXHAUST AIR
EX	EXISTING
FD	FIRE DAMPER
FE	FIRE EXTINGUISHER
FS	FLOW SWITCH
HHS	HAND-HELD SHOWER
LV	LAVATORY
MD	MOTORIZED DAMPER
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTDOOR AIR
PG	PRESSURE GAUGE
RWL	RAIN WATER LEADER
REM	REMOVE
RP	REPLACE
RA	RETURN AIR
SA	SUPPLY AIR
SV	SUPERVISED VALVE
TYP	TYPICAL
UV	UNIT VENTILATOR
VTR	VENT THROUGH ROOF
WD	WASHER-DRYER UNIT
WC	WATER CLOSET

- GENERAL NOTES:**
- ALL DEMOLITION AND NEW WORK SHALL BE COORDINATED WITH ALL TRADES PRESENT ON SITE. CONSTRUCT NEW SERVICES AND LOCATE NEW EQUIPMENT IN SUCH A WAY THAT IT DOES NOT CONFLICT WITH WORK OF OTHER DIVISIONS AND/OR THE OPERATION/MAINTENANCE OF WORK/MATERIAL SUPPLIED BY THE OTHER DIVISIONS.
 - IT IS HIGHLY SUGGESTED AND RECOMMENDED FOR THE MECHANICAL CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL, ELECTRICAL, STRUCTURAL AND MECHANICAL SITE CONDITIONS, DRAWINGS, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY SUCH ERROR, OMISSION AND/OR OVERSIGHT FOR NOT HAVING MADE A THOROUGH INSPECTION OF THE GROUNDS, EXISTING CONDITIONS, DRAWINGS, SPECIFICATION AND DESIGN INTENT. THE MECHANICAL CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN OPERATION THROUGHOUT DEMOLITION/CONSTRUCTION. ALLOW FOR ANY WORK REQUIRED TO BE DONE WHICH MAY AFFECT POWER SUPPLY AND OPERATION OF THE BUILDING TO BE CARRIED OUT AFTER HOURS OR AT A TIME CONVENIENT TO THE BUILDING MANAGEMENT. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
 - CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO STARTING ANY WORK.
 - THESE DRAWINGS SHALL BE READ & PRICED IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS FORMING THE CONTRACT AS WELL AS ALL OTHER DOCUMENTS FORMING THIS BID. NO EXTRA COST WILL BE ACCEPTED IN FAILURE TO OBTAINING AND/OR REVIEW OF SUCH DOCUMENTS. REFER TO ARCHITECTURAL, ELECTRICAL, FIRE PROTECTION STRUCTURAL AND MECHANICAL LAYOUTS IN CONJUNCTION FOR EXACT LOCATION OF ALL EQUIPMENT. REPORT ANY DISCREPANCIES TO THE MECHANICAL ENGINEER PRIOR TO COMMENCING WORK. NO EXTRA WILL BE PROVIDED AS A RESULT OF A FAILURE TO DO SO.
 - IT IS MANDATORY THAT ALL WORK COMPLY WITH ALL APPLICABLE CODES AND, BASE BUILDING (BOARD) STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
 - ARRANGE FOR ALL INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION AS MANDATED BY CODES OR THE REQUIREMENTS OF THE AUTHORITIES. ATTEND ALL INSPECTIONS AND FURNISH ALL MATERIALS AND LABOUR REQUIRED TO COMPLETE THE INSPECTIONS TO THE SATISFACTION OF THE AUTHORITIES.
 - IN THE EVENT OF ANY DISCREPANCY BETWEEN THE MECHANICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
 - ALL EQUIPMENT AND SERVICES SHALL BE STARTED-UP BY THE CONTRACTOR AND BY THE APPROPRIATE AGENCIES REQUIRED FOR CONDUCTING SUCH START-UPS. PROVIDE A MINIMUM OF 10 BUSINESS DAYS NOTICE TO THE MECHANICAL ENGINEER OF NEW EQUIPMENT/SERVICES START-UPS.
 - FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE SPECIAL APPROVAL FOR SUBSTITUTION IS GIVEN IN WRITING BY THE TENANT.
 - PROVIDE FIRESTOPPING OF ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS OR ROOF ASSEMBLIES.

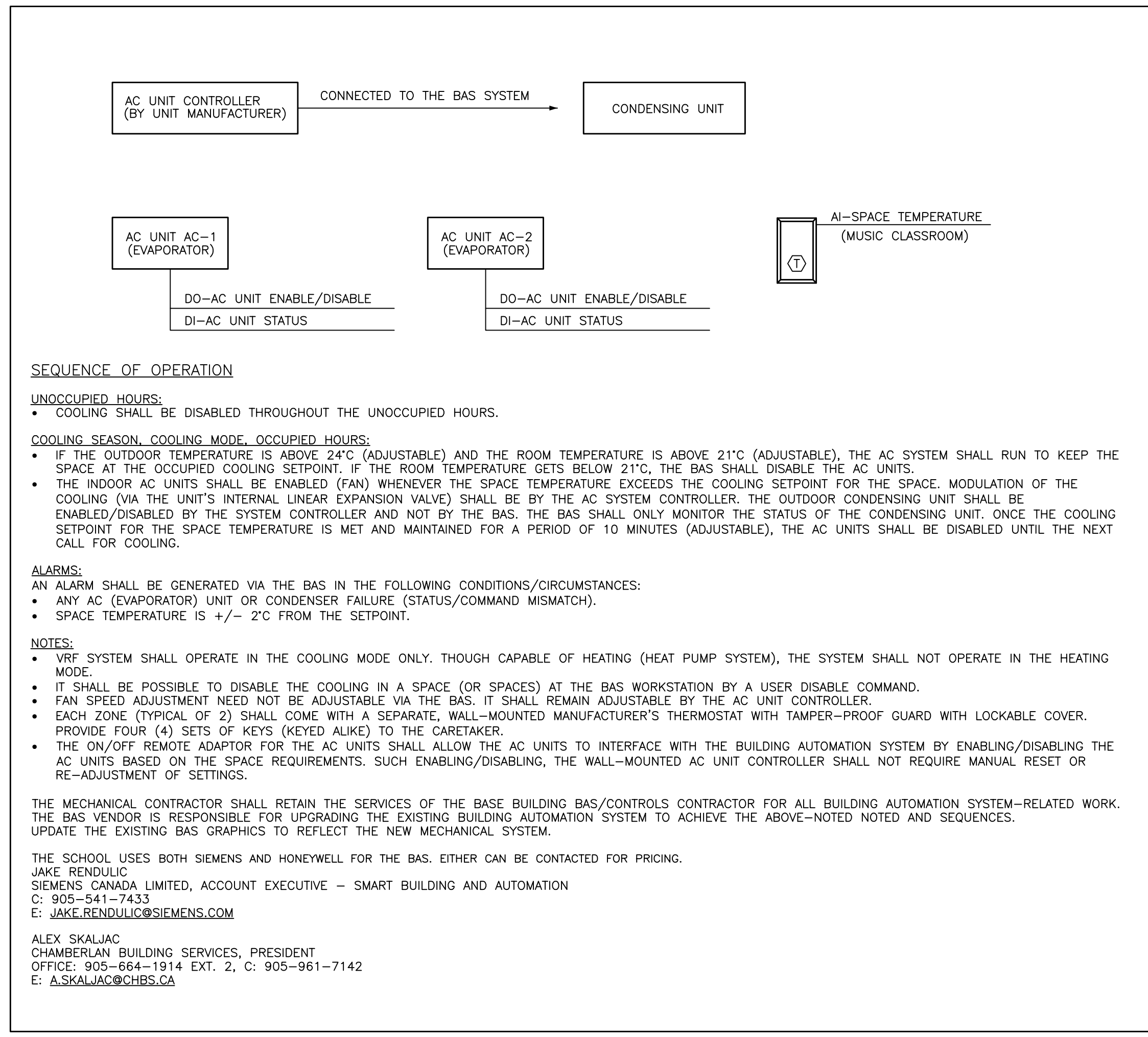
DRAWING LIST	
DRAWING NUMBER	DESCRIPTION
M1	MECHANICAL LEGEND, NOTES AND SCHEDULES
M2	FIRST FLOOR KEY PLAN
M3	PLUMBING & DRAINAGE PLANS
M4	HVAC PLANS

INDOOR A/C UNIT SCHEDULE													
TAG	SERVES	MAKE/MODEL	COOLING CAP.	AIR FLOW (CFM)	POWER SUPPLY (V/PH/Hz)	MCA (A)	FUSE (A)	WEIGHT (KG)	EQUIPMENT SIZE (HxWxD; MM)	RG (MM)	RL (MM)	DRAIN (MM)	REMARKS
AC-1	MUSIC CLASSROOM	MITSUBISHI PKFY-P18NLMU-E-TH	18,000 BTU/HR	240-438	208/1ø/60	0.3	15	13	299x898x237	-	-	16	OPERATES WITH CDU-1
AC-2	MUSIC CLASSROOM	MITSUBISHI PKFY-P18NLMU-E-TH	18,000 BTU/HR	240-438	208/1ø/60	0.3	15	13	299x898x237	-	-	16	OPERATES WITH CDU-1

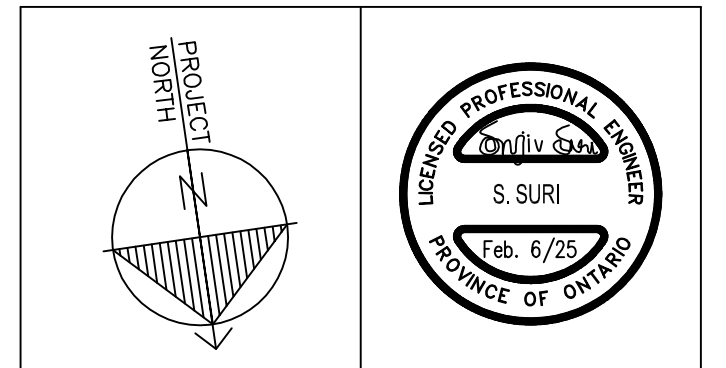
AC UNITS SHALL COME COMPLETE WITH CONDENSATE PUMP.
AC UNITS SHALL COME COMPLETE WITH MITSUBISHI PAC-SE55RA-E REMOTE ON/OFF ADAPTOR TO INTERFACE WITH THE BUILDING AUTOMATION SYSTEM FOR ON/OFF (ENABLE/DISABLE) CONTROL.

OUTDOOR CONDENSING UNIT SCHEDULE									
TAG	MAKE/MODEL	REFRIGERANT	CONNECTION SIZES RL (MM) RG (MM)	EQUIPMENT SIZE (HxWxD; MM)	POWER SUPPLY (V/PH/Hz)	MCA (A)	FUSE (A)	WEIGHT (KG)	REMARKS
CDU-1	MITSUBISHI PUMY-P48NKMU4	R-410A	-	1338x1050x330	208/1ø/60	36	75	123	OPERATES WITH AC-1/2; C/W NON-PENETRATING 450mm HIGH SUPPORT

CONDENSING UNIT NON-PENETRATING ROOFTOP SUPPORT STAND SHALL BE 'ECOFOOT SUPPORT FRAME' OR APPROVED EQUAL.



1 MUSIC CLASSROOM AIR CONDITIONING BAS CONTROL SEQUENCE & SCHEMATIC
M1 SCALE: N.T.S.



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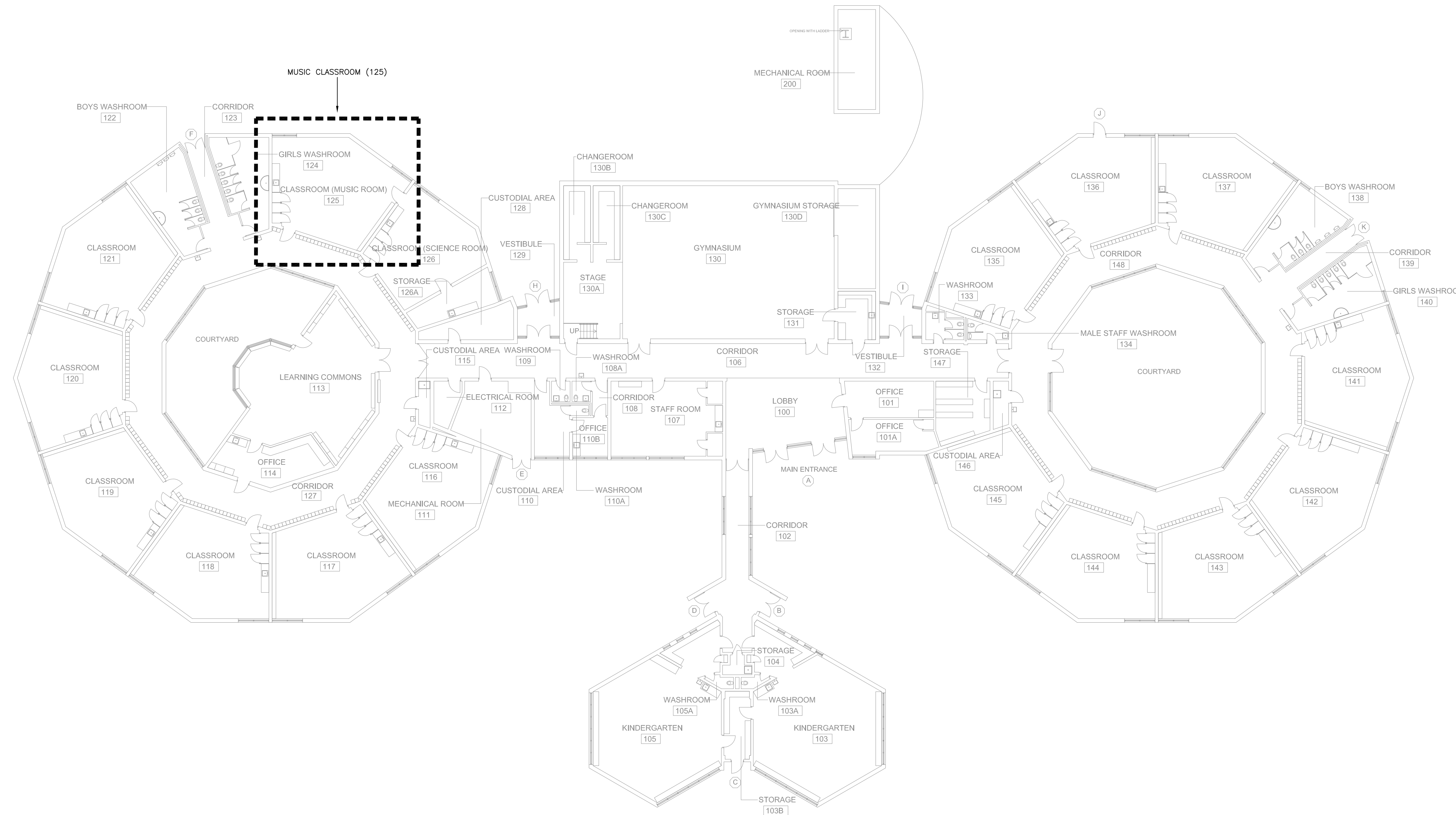
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MISSISSAUGA, ONTARIO
L5H 4L1
T (905)-290-7861
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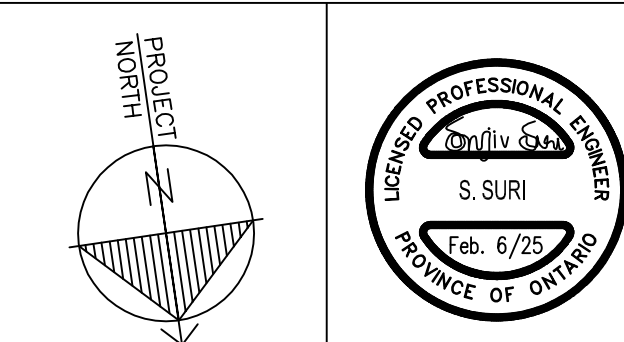
4.	RE-ISSUED FOR TENDER	FEB. 6, 2025
3.	RE-ISSUED FOR TENDER	JAN. 17, 2025
2.	ISSUED FOR TENDER	NOV. 20, 2024
1.	ISSUED FOR 100% REVIEW	OCT. 30, 2024
No.	REVISIONS	DATE

LISGAR ELEMENTARY SCHOOL
HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

MECHANICAL LEGEND, NOTES AND SCHEDULES	
DRAWN BY:	CHECKED BY:
RS	SS
DATE:	JOB No.:
NOVEMBER 2024	24-244
SCALE:	SHEET No.:
AS SHOWN	M1



1 FIRST FLOOR KEY PLAN
 M2 SCALE: 1/16" = 1'-0"



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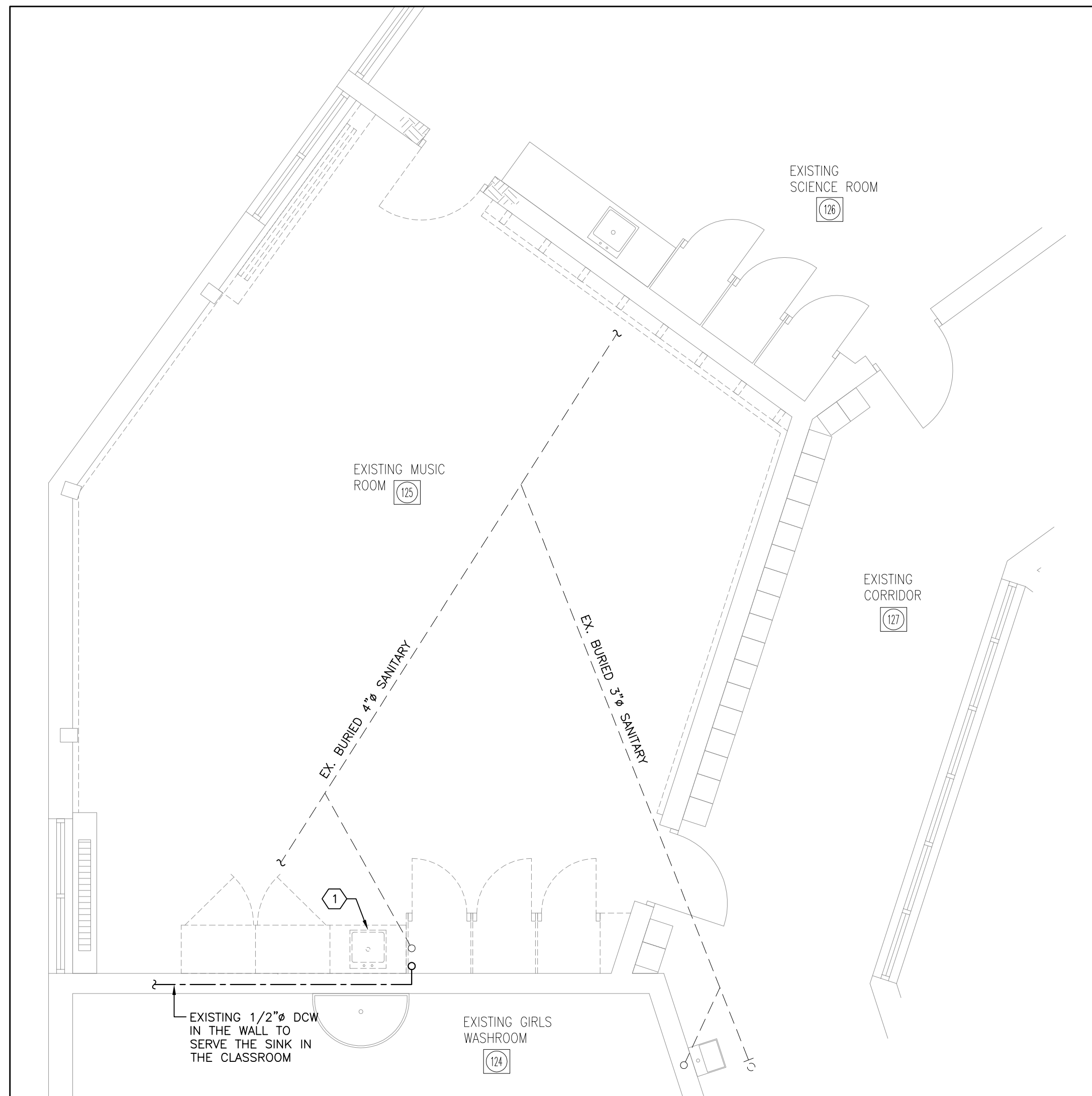


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FIRST FLOOR KEY PLAN

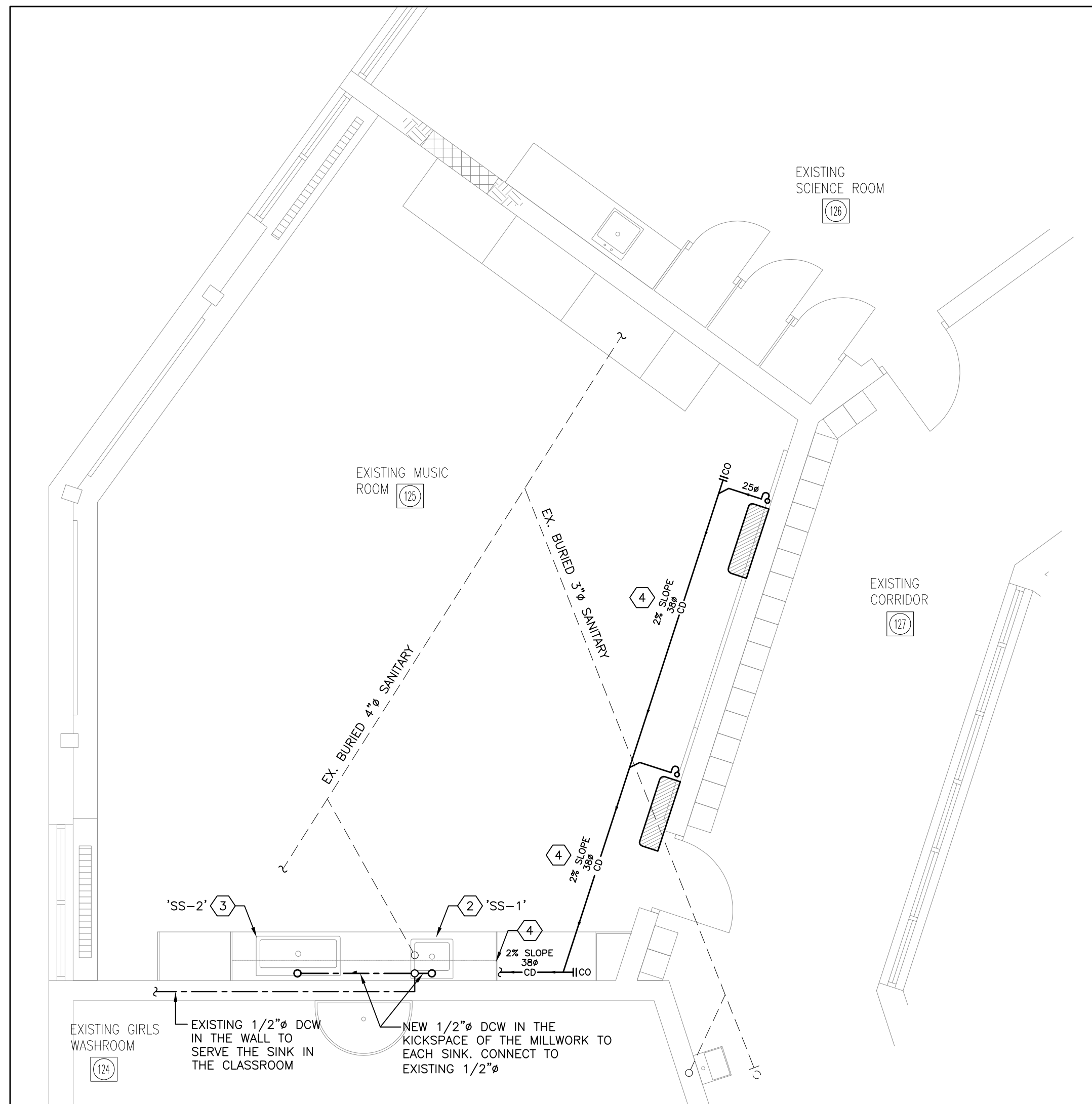
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SCALE: AS SHOWN	SHEET No.: M2



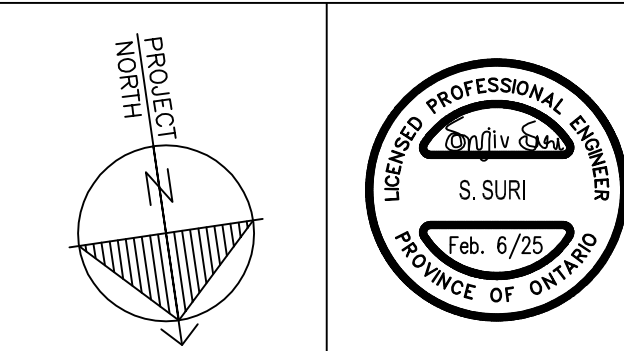
1 EXISTING PLUMBING & DRAINAGE PLAN
M3 SCALE: 1/4" = 1'-0"

DRAWING NOTES:

- 1 REMOVE THE EXISTING COUNTERTOP SINK. DISCONNECT FROM THE EXISTING DCW, SANITARY AND VENT PIPING. DISPOSE OF THE SINK OFFSITE.
- 2 PROVIDE A NEW COUNTERTOP SINK 'SS-1' AS SPECIFIED. PROVIDE 1/2" DCW, 1-1/2" SANITARY AND 1-1/4" VENT TO THE SINK. CONNECT TO THE EXISTING 1/2" DCW STUBBING THROUGH THE WALL. CONNECT TO THE EXISTING SANITARY STUB-UP FROM THE FLOOR. PROVIDE NEW VENT AS PER OBC. CONNECT TO THE VENT OF SUFFICIENT SIZE IN THE ADJACENT WASHROOM.
- 3 PROVIDE A NEW COUNTERTOP SINK 'SS-2' AS SPECIFIED. PROVIDE 1/2" DCW, 1-1/2" SANITARY AND 1-1/4" VENT TO THE SINK. CONNECT TO THE EXISTING 1/2" DCW STUBBING THROUGH THE WALL. CONNECT TO THE EXISTING SANITARY STUB-UP FROM THE FLOOR. PROVIDE NEW VENT AS PER OBC. CONNECT TO THE VENT OF SUFFICIENT SIZE IN THE ADJACENT WASHROOM.
- 4 CONNECT THE NEW CONDENSATE DRAIN FROM THE AC UNITS INDIRECTLY TO THE WASTE OF THE SINK PER OBC.



2 NEW PLUMBING & DRAINAGE PLAN
M3 SCALE: 1/4" = 1'-0"



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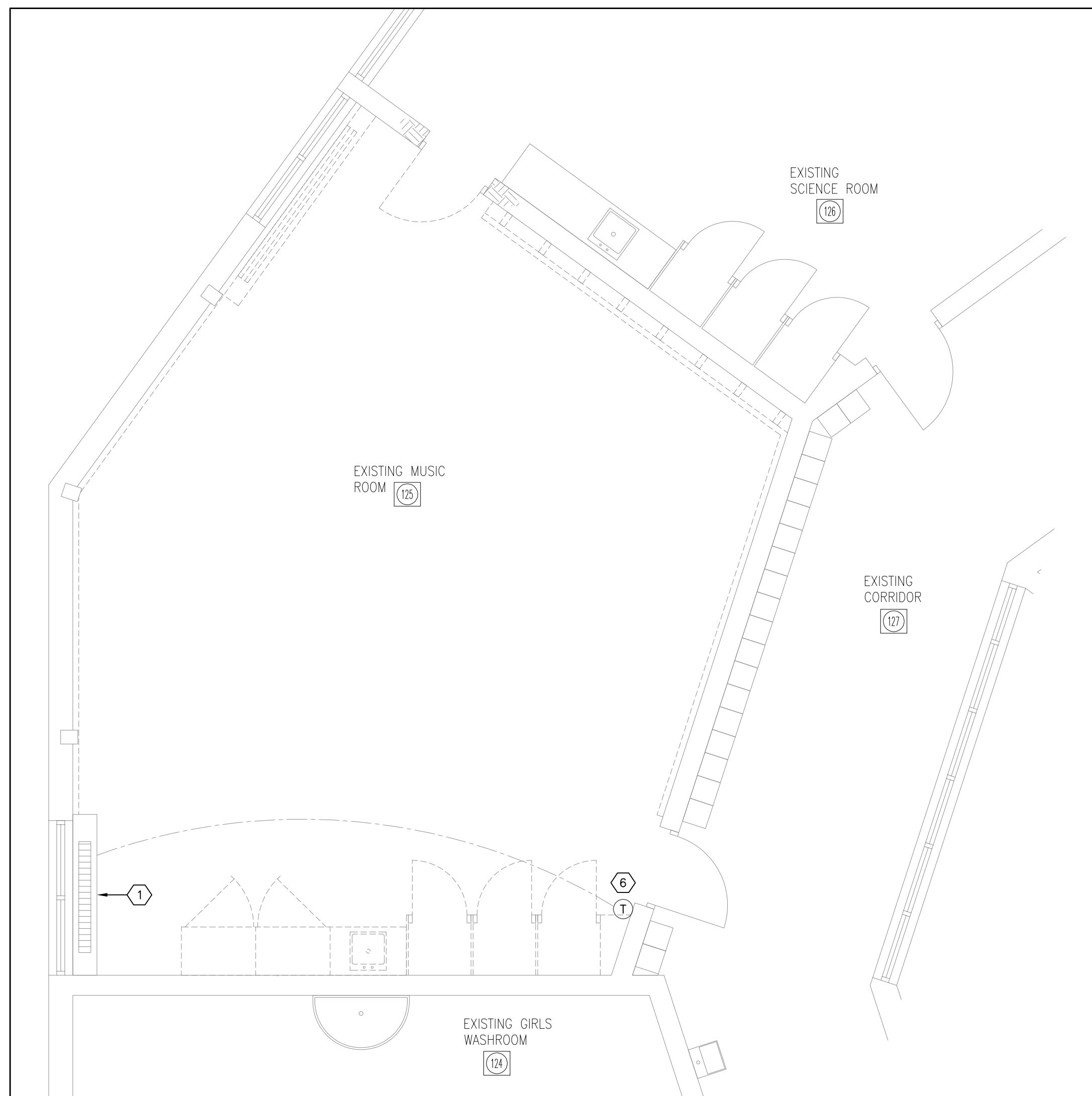


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PLUMBING & DRAINAGE PLANS

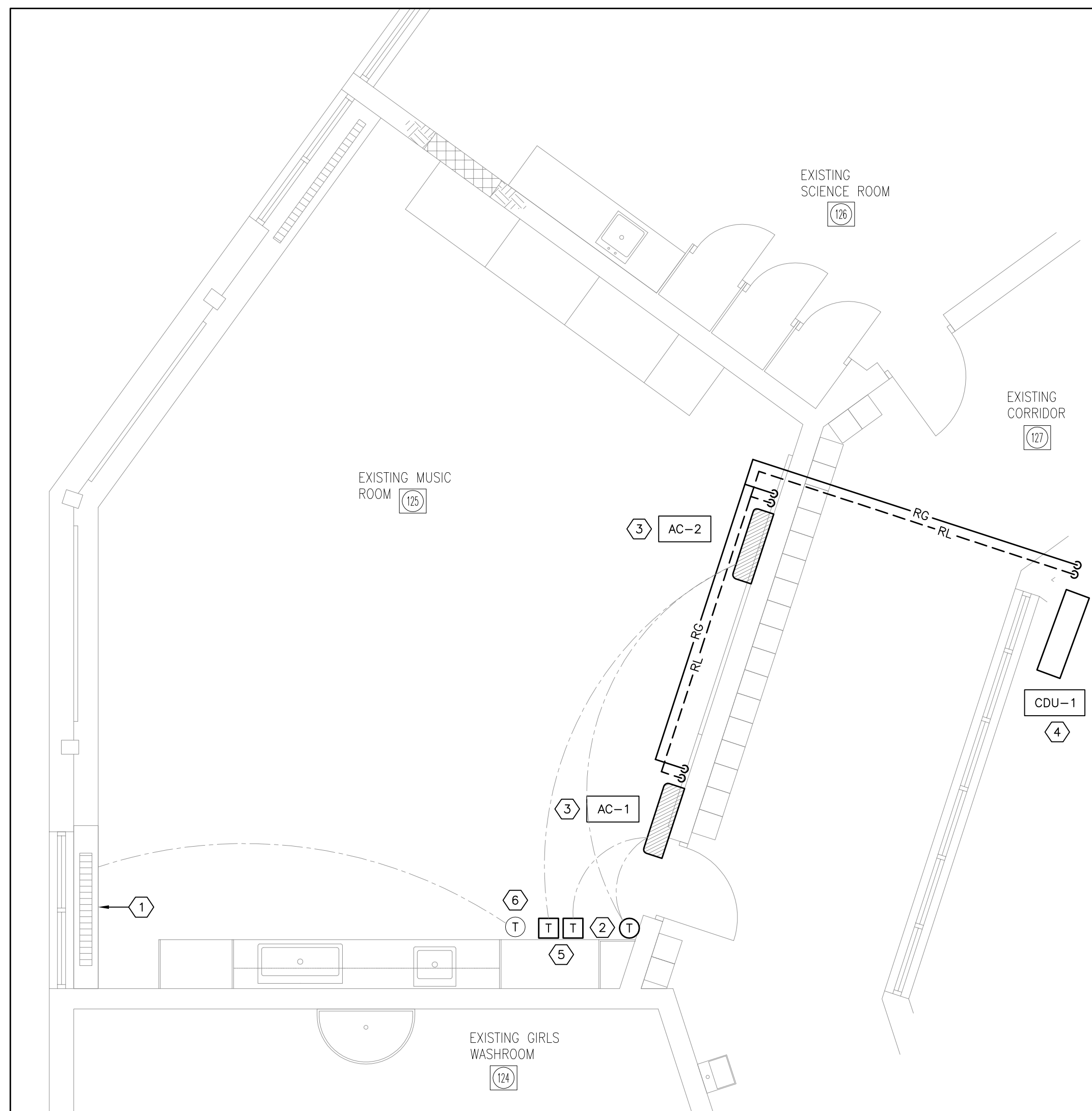
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DATE:	JOB No.:
NOVEMBER 2024	24-244
SCALE:	SHEET No.:
AS SHOWN	M3



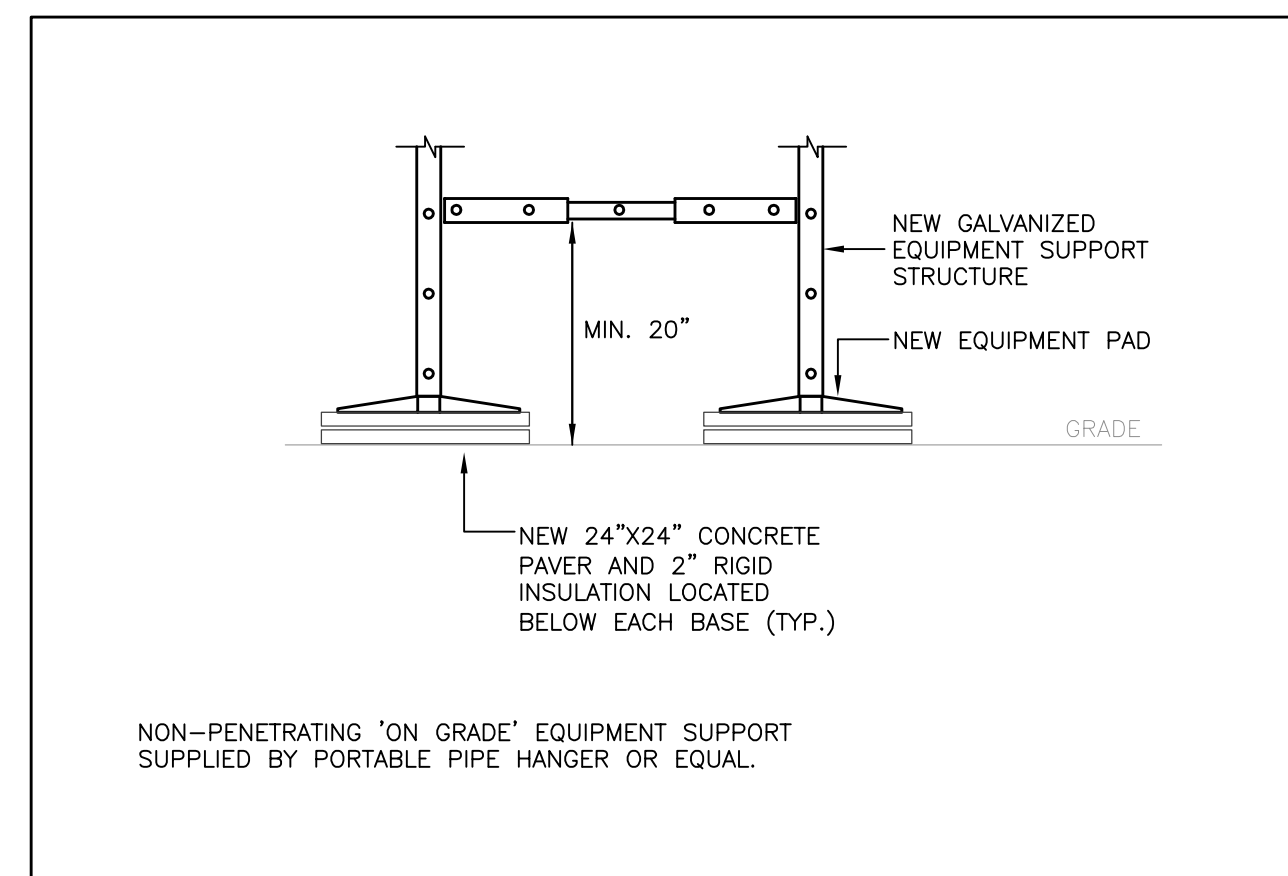
1 EXISTING HVAC PLAN
M4 SCALE: 1/4" = 1'-0"

DRAWING NOTES:

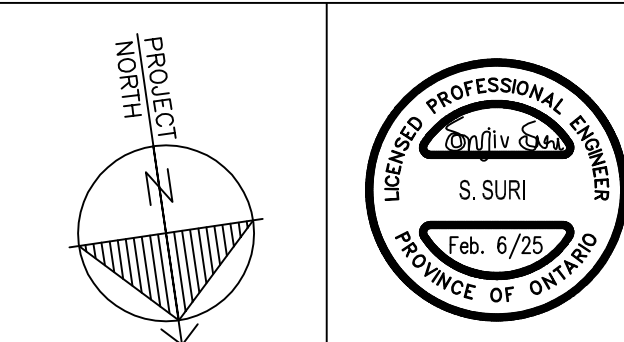
- 1 EXISTING HOT WATER UNIT VENTILATOR (SERVING THE VENTILATION AND HEATING FOR THE CLASSROOM) IS TO REMAIN AS IS.
- 2 PROVIDE A NEW BAS TEMPERATURE SENSOR TIED TO THE BAS IN THE RENOVATED CLASSROOM. SENSOR SHALL CONTROL THE NEW AC UNITS.
- 3 PROVIDE NEW HI-WALL AC UNITS. PROVIDE NEW REFRIGERANT AND CONDENSATE PIPING AS SHOWN. ALL REFRIGERANT PIPING SHALL BE INSULATED WITH PVC JACKETING INDOORS AND ALUMINUM JACKETING OUTDOORS. EXTERNALLY INSULATE ALL CONDENSATE PIPING
- 4 PROVIDE A NEW CONDENSING UNIT ON A 600mm HIGH NON-PENETRATING GRADE SUPPORT. RUN NEW REFRIGERANT PIPING ALONG THE EXTERIOR WALL TO THE CONDENSING UNIT. INSTALL ADHERING TO ALL MAINTENANCE CLEARANCES.
- 5 PROVIDE NEW MANUFACTURER SUPPLIED AC UNIT CONTROLLERS ON THE WALL C/W POLYCARBONATE LOCKABLE COVERS. PROVIDE LOW-VOLTAGE WIRING/CONDUIT FROM THE CONTROLLERS TO THE AC UNITS.
- 6 EXISTING LOCAL THERMOSTAT SERVING THE UNIT VENTILATOR IS TO REMAIN AS IS.
7. WHERE PIPES PASS THROUGH FIRE SEPARATIONS (WALLS, FLOORS, CEILINGS, PARTITIONS, ETC.), PROVIDE ULC-LISTED AND/OR APPROVED FIRESTOPPING OF ALL PENETRATIONS.



2 NEW HVAC PLAN
M4 SCALE: 1/4" = 1'-0"



3 CONDENSING UNIT SUPPORT DETAIL
M4 SCALE: 1/4" = 1'-0"



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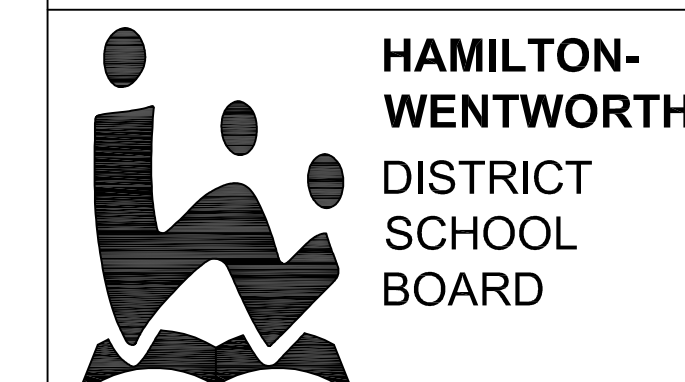
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MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



No.	REVISIONS	DATE
4.	RE-ISSUED FOR TENDER	FEB. 6, 2025
3.	RE-ISSUED FOR TENDER	JAN. 17, 2025
2.	ISSUED FOR TENDER	NOV. 20, 2024
1.	ISSUED FOR 100% REVIEW	OCT. 30, 2024

LISGAR ELEMENTARY
SCHOOL
HAMILTON - WENTWORTH
DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

HVAC PLANS

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RS	SS
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NOVEMBER 2024	24-244
SCALE:	SHEET No.:
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LIGHTING LEGEND	
A1	STANDARD TYPE 'A1' LIGHT FIXTURE AS SCHEDULED
A1	TYPE 'A1' LIGHT FIXTURE AS SCHEDULED, CONNECTED TO THE EMERGENCY POWER SOURCE (INVERTER OR GENERATOR)
B1	WALL-MOUNTED TYPE 'B1' LIGHT FIXTURE AS SCHEDULED
	LOW-VOLTAGE, TOGGLE LIGHT SWITCH, AS SPECIFIED.
\$D	LOW-VOLTAGE, TOGGLE & DIMMER LIGHT SWITCH, AS SPECIFIED.
\$K	LOW-VOLTAGE, KEY-SWITCH TYPE LIGHT SWITCH, AS SPECIFIED.
\$MS	LOW-VOLTAGE, KEY-SWITCH TYPE, MASTER LIGHT SWITCH, AS SPECIFIED. CONTROLS ALL CORRIDOR, WASHROOM AND VESTIBULE LIGHTING
\$OS	LOW-VOLTAGE LIGHT SWITCH COMPLETE WITH INTEGRAL OCCUPANCY SENSOR, AS SPECIFIED.
OS	CORNER/WALL-MOUNTED, LOW-VOLTAGE OCCUPANCY SENSOR, AS SCHEDULED
OS	CEILING-MOUNTED, LOW-VOLTAGE OCCUPANCY SENSOR, AS SCHEDULED
○	EXTERIOR-GRADE, WALL-MOUNTED LIGHT FIXTURE
○	EXTERIOR-GRADE, LIGHT STANDARD COMPLETE WITH CONCRETE BASE
	EMERGENCY LIGHTING BATTERY UNIT C/W NO REMOTE HEADS
	EMERGENCY LIGHTING BATTERY UNIT C/W DUAL-HEAD REMOTE HEADS
	EMERGENCY LIGHTING DUAL-HEAD REMOTE HEAD
	EMERGENCY LIGHTING, WALL-MOUNTED EXIT SIGN
	EMERGENCY LIGHTING, CEILING-MOUNTED EXIT SIGN

POWER DEVICES & EQUIPMENT LEGEND	
○	SINGLE RECEPTACLE MOUNTED AT STANDARD HEIGHT; USE AND RATING FOR THE PURPOSE INTENDED
○	SINGLE RECEPTACLE MOUNTED AT HIGH LEVEL; USE AND RATING FOR THE PURPOSE INTENDED
○	15A, 120V DUPLEX RECEPTACLE MOUNTED AT STANDARD HEIGHT. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
○	15A, 120V DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
○	15A, 120V, GFI DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
●	DIRECT POWER CONNECTION
□	UNFUSED DISCONNECT SWITCH
□	FUSED DISCONNECT SWITCH
□	DIRECT POWER CONNECTION COMPLETE UNFUSED DISCONNECT SWITCH
□	BLANK COVERPLATE COMPLETE WITH WIRING, CONDUIT, AND BACKBOX
○	ROUND JUNCTION BOX COMPLETE WITH COVERPLATE
○	SQUARE JUNCTION BOX COMPLETE WITH COVERPLATE
■	RECESSED ELECTRICAL PANEL, AS SCHEDULED
■	SURFACE-MOUNTED ELECTRICAL PANEL, AS SCHEDULED
□	MANUAL STARTER
CC-1	DEVICE/EQUIPMENT CONNECTED TO CIRCUIT #1 IN PANEL 'CC'

COMMUNICATIONS (VOICE/DATA) LEGEND	
▽	DATA OUTLET MOUNTED AT STANDARD HEIGHT COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB ROOM
▼	TELEPHONE OUTLET MOUNTED AT STANDARD HEIGHT COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB ROOM
▽	DATA OUTLET MOUNTED AT HIGH LEVEL COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB ROOM
▼	TELEPHONE OUTLET MOUNTED AT HIGH LEVEL COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB ROOM
WAP	WIRELESS ACCESS POINT COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB ROOM

MECHANICAL EQUIPMENT WIRING SCHEDULE										
EQUIPMENT DESCRIPTION	STARTER LOCATION	STARTER TYPE	MCA/HP/KW	VOLTS/PH./FREQUENCY	BREAKER SIZE OR FUSE SIZE	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS	FIRE ALARM FAN SHUTDOWN [AHU/EF ONLY]	TIED TO BAS SYSTEM?
WALL-MOUNTED AC UNIT, AC-1	INTEGRAL TO UNIT	INTEGRAL	-	208V/1PH/60Hz	15A-2P	2#12 RW90+G IN 19mmC	PANEL 'MR'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	NO	YES
WALL-MOUNTED AC UNIT, AC-2	INTEGRAL TO UNIT	INTEGRAL	-	208V/1PH/60Hz	15A-2P	2#12 RW90+G IN 19mmC	PANEL 'MR'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	NO	YES
CONDENSING UNIT, CDU-1	INTEGRAL TO UNIT	INTEGRAL	-	208V/1PH/60Hz	75A-2P	2#4 RW90+G IN 27mmC	PANEL 'MR'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	NO	YES

1. PROVIDE POWER CONNECTION TO ALL MECHANICAL EQUIPMENT LISTED IN THE SCHEDULE FOR A FULL OPERATIONAL SYSTEM. REFER TO MECHANICAL LAYOUTS AND SCHEDULES FOR EXACT LOCATION OF EQUIPMENT. PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPMENT. SIZE AS INDICATED IN THE SCHEDULE.

2. PROVIDE A LOCAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT IN THIS SCHEDULE, UNLESS IT IS NOTED THAT THE DISCONNECT SWITCH IS TO BE PROVIDED BY THE EQUIPMENT MANUFACTURER. DISCONNECT SWITCH SHALL BE SEPARATE FROM THE STARTER SERVING THE RESPECTIVE EQUIPMENT. NOTE THAT DISCONNECT SWITCHES ARE NOT ILLUSTRATED ON THE FLOOR PLAN (FOR CLARITY), HOWEVER MUST BE SUPPLIED AND INSTALLED BY DIVISION 26 FOR ALL MECHANICAL EQUIPMENT LISTED IN THE ABOVE SCHEDULE.

3. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ALL MECHANICAL SHOP DRAWINGS WITH RESPECT TO RELEVANT ELECTRICAL INFORMATION PRIOR TO THE SHOP DRAWINGS BEING SUBMITTED TO THE MECHANICAL AND ELECTRICAL ENGINEER FOR REVIEW. NO EQUIPMENT SHALL BE ORDERED PRIOR TO SUBMITTING SHOP DRAWINGS AND RECEIVING BACK APPROVED BY BOTH THE MECHANICAL AND ELECTRICAL ENGINEER. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH EACH MANUFACTURER OR MECHANICAL EQUIPMENT AND GATHERING THE 'MCA' AND 'MOP' OF ALL EQUIPMENT AND LISTING IT ON THE SHOP DRAWING FOR EACH MECHANICAL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS FOR REVIEW.

NEW PANEL 'A'					
120V/208V, 3PH, 4W		TYPE: MAINS: MAIN BKR:		MOUNTING: LOCATION:	
		1 60A -		RECESSED MUSIC CLASSROOM	
WATTS	DESCRIPTION	PROT.	CIRCUITS	PROT.	DESCRIPTION
	EXISTING LOAD	15A	1	2	15A EXISTING LOAD
	EXISTING LOAD	15A	3	4	15A EXISTING LOAD
	SPARE	15A	5	6	15A SPARE
	SPARE	15A	7	8	15A SPARE

NOTES:
 1. PROVIDE PANELBOARD C/W COVERS AND FULL NEUTRAL COPPER BUS.
 2. VERIFY IF THE EXISTING PANEL IS A 120/208V, 3ø, 4W PANEL OR A 120/240V, 1ø, 3W PANEL. PROVIDE NEW TO MATCH EXISTING VOLTAGE (1ø VS. 3ø). MODIFY AND RECONNECT THE EXISTING FEEDER TO THE NEW PANEL.

SYSTEMS DEVICE & EQUIPMENT LEGEND	
	MODULAR CONTROL PANEL, SUPPLIED AND INSTALLED BY DIVISION 26
	DOOR OPERATOR ACTUATOR BUTTON
KS	KEY SWITCH, TIED TO THE DOOR OPERATOR SYSTEM
HD	HAND DRYER, SUPPLIED AND INSTALLED BY DIVISION 26
PL	PUSH-TO-LOCK BUTTON TIED TO THE WASHROOM DOOR OPERATOR SYSTEM
OH	'OCCUPIED-WHEN-LIT' LED ANNUNCIATOR TIED TO THE WASHROOM DOOR OPERATOR SYSTEM
EH	VISUAL INDICATOR TIED TO THE CALL-FOR-ASSISTANCE SYSTEM
E	EMERGENCY PUSH-BUTTON TIED TO THE CALL-FOR-ASSISTANCE SYSTEM
EH	AUDIBLE/VISUAL INDICATOR TIED TO THE CALL-FOR-ASSISTANCE SYSTEM

FIRE ALARM SYSTEM LEGEND	
○	RATE-OF-RISE HEAT DETECTOR
○	FIXED TEMPERATURE HEAT DETECTOR
○	SMOKE DETECTOR
■	PULL STATION C/W TAMPERPROOF, POLYCARBONATE COVER
■	FIRE ALARM SPEAKER
■	FIRE ALARM SPEAKER/STROBE
○	DUCT SMOKE DETECTOR
TL	REMOTE TROUBLE INDICATOR
FS	SPRINKLER/STANDPIPE FLOW SWITCH
SV	SPRINKLER/STANDPIPE SUPERVISED VALVE
■	FIRE ALARM ANNUNCIATOR
■	FIRE ALARM CONTROL PANEL

ACCESS CONTROL SYSTEM LEGEND	
CR	CARD READER
ES	ELECTRIC STRIKE
MS	AIPHONE MASTER STATION
SMS	AIPHONE SUB-MASTER STATION
DS	AIPHONE DOOR STATION
LC	LOCAL DOOR CONTACT SUPPLIED AND INSTALLED BY DIVISION 16; TIED TO THE LOCAL DOOR ALARM SYSTEM
EH	AUDIBLE/VISUAL ANNUNCIATOR TIED TO THE LOCAL DOOR ALARM SYSTEM

SECURITY SYSTEM LEGEND	
M	MOTION DETECTOR
DC	MAGNETIC DOOR CONTACT
KP	KEYPAD
ES	ELECTRIC STRIKE

CLOCK SYSTEM LEGEND	
○	ANALOG CLOCK, 120V PLUG-IN TYPE COMPLETE WITH SINGLE RECEPTACLE - WALL-MOUNTED
○	ANALOG CLOCK, 120V PLUG-IN TYPE COMPLETE WITH SINGLE RECEPTACLE - WALL-MOUNTED
MC	ANALOG CLOCK TIED TO THE MASTER CLOCK SYSTEM - WALL-MOUNTED
MC	DUAL-FACE ANALOG CLOCK TIED TO THE MASTER CLOCK SYSTEM - WALL-MOUNTED
BO	ANALOG CLOCK, BATTERY OPERATED - WALL-MOUNTED
BO	DUAL-FACE ANALOG CLOCK, BATTERY OPERATED - WALL-MOUNTED
MC	MASTER CLOCK SYSTEM CONTROLLER

AUDIO/VISUAL SYSTEM LEGEND	
AV	2-HDMI OUTLET

PUBLIC ADDRESS (P.A.) SYSTEM LEGEND	
S	P.A. SPEAKER - FLUSH CEILING-MOUNTED
SH	P.A. SPEAKER - WALL-MOUNTED
SH	P.A. SPEAKER, DUAL-FACE TYPE - WALL-MOUNTED
SH	P.A. EXTERIOR HORN - WALL-MOUNTED
SH	WEATHERPROOF PROGRAM BELL C/W ENCLOSURE
HS	P.A. HANDSET - WALL-MOUNTED
HS	P.A. HANDSET - DESK-MOUNTED
\$PC	P.A. PRIVACY CALL SWITCH
\$HS	P.A. HANDSET C/W INTEGRAL PRIVACY CALL SWITCH
ACC	P.A. ADMINISTRATIVE HANDSET
NR	P.A. NIGHT RINGER
A	P.A. LOCKDOWN 'AMBER' STROBE
B	P.A. INCOMING CALL 'BLUE' STROBE
VC	P.A. WALL-MOUNTED VOLUME CONTROL SWITCH
H	P.A. RED LOCKDOWN BUTTON C/W POLYCARBONATE LIFT-ABLE COVER
CH	P.A. SPEAKER C/W INTEGRATED CALL SWITCH
SHS	P.A. COMBINATION SPEAKER AND CLOCK UNIT - WALL-MOUNTED
PA	P.A. HEAD-END EQUIPMENT RACK
SR	P.A. SATELLITE EQUIPMENT RACK

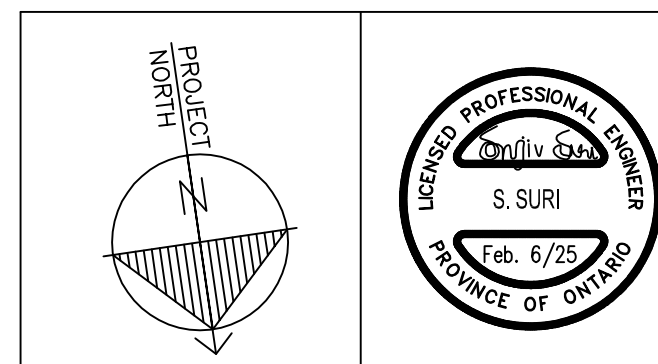
ACRONYM LEGEND	
ACRONYM	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
CTE	CONNECT TO EXISTING
ER	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE RELOCATED
EX	DENOTE EXISTING DEVICE OR EQUIPMENT TO REMAIN
GFI	DENOTE DEVICE OR EQUIPMENT WITH GFI PROTECTION
HL	DENOTES DEVICE OR EQUIPMENT AT HIGH LEVEL
LV	LOW VOLTAGE
N	DENOTES NEW DEVICE OR EQUIPMENT
NL	DENOTES NIGHT LIGHT FIXTURE
R	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED
RE	DENOTES RELOCATED POSITION OF AN EXISTING DEVICE OR EQUIPMENT
RP	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REPLACED
RT	DENOTES ROOFTOP DEVICE OR EQUIPMENT
T	T-SLOT, 20A, DEVICE
TP	DENOTES TAMPERPROOF DEVICE OR EQUIPMENT
WG	DENOTES DEVICE OR EQUIPMENT WITH A WIREGUARD
WP	DENOTES WEATHERPROOF TYPE DEVICE OR EQUIPMENT

GENERAL NOTES	
1.	IT IS HIGHLY SUGGESTED AND RECOMMENDED FOR THE ELECTRICAL CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL, STRUCTURAL AND MECHANICAL SITE CONDITIONS, DRAWINGS, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY SUCH ERROR, OMISSION AND/OR OVERSIGHT FOR NOT HAVING MADE A THOROUGH INSPECTION OF THE GROUNDS, EXISTING CONDITIONS, DRAWINGS, SPECIFICATION AND DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN OPERATION THROUGHOUT DEMOLITION/CONSTRUCTION. ALLOW FOR ANY WORK REQUIRED TO BE DONE WHICH MAY AFFECT POWER SUPPLY AND OPERATION OF THE BUILDING TO BE CARRIED OUT AFTER HOURS OR AT A TIME CONVENIENT TO THE BUILDING MANAGEMENT. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
2.	CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO START THE ELECTRICAL CONSTRUCTION WORKS AND COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCY PRIOR TO PROCEEDING.
3.	IT IS MANDATORY THAT ELECTRICAL WORK CONFORM TO ALL APPLICABLE CODES (INCLUDING THE ONTARIO BUILDING, FIRE, AND ONTARIO ELECTRICAL SAFETY CODE), BASE BUILDING (BOARD) STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
4.	ALL ELECTRICAL WORK SHALL BE INSPECTED BY THE ELECTRICAL SAFETY AUTHORITY (ESA). ARRANGE AND PAY FOR ALL INSPECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
5.	THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR HIRING A FIRE WATCH AS REQUIRED BY CODE, LOCAL AUTHORITIES HAVING JURISDICTION, AND DURING ANY ALTERATION OR DOWNTIME OF THE FIRE ALARM SYSTEM. FIRE WATCH SHALL BE PRESENT THROUGHOUT THE DOWNTIME DURATION.
6.	THE ELECTRICAL CONTRACTOR SHALL LABEL ALL NEW AND EXISTING LIGHT SWITCHES, RECEPTACLES AND JUNCTION BOXES COVERPLATES WITH THE PANEL NAME AND BREAKER IT IS FED FROM ALL LABELING OF ELECTRICAL DEVICES SHALL BE DONE SO WITH A LABELMAKER ONLY. NO HAND WRITTEN LABELS WILL BE PERMITTED.
7.	WHERE NEW PARTITIONS ARE BEING CONSTRUCTION, ALL WIRING AND RACEWAYS SHALL BE EMBEDDED IN THE CONSTRUCTION OF THE NEW WALLS AND ALL BACKBOXES SHALL BE RECESSED. WHERE NEW DEVICES/SYSTEMS ARE PROPOSED ON EXISTING BLOCK WALLS, UTILIZE WIREMOLD 500/700 SERIES AS RACEWAY FOR ALL NEW WIRING. PROVIDE WIREMOLD BACKBOXES FOR SURFACE MOUNTED, INTERIOR APPLICATIONS. THE USE OF SHEET METAL BOXES WILL NOT BE PERMITTED.
8.	IN THE EVENT OF ANY DISCREPANCY BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
9.	ALL WIRING USED ON THIS PROJECT SHALL BE RUN IN RACEWAYS. NO USE OF ARMoured (BX) CABLE WILL BE PERMITTED WITH THE EXCEPTION OF RUNS NOT TO EXCEED 5' BETWEEN A LIGHT FIXTURE AND THE RESPECTIVE JUNCTION BOX.

DRAWING LIST	
DRAWING NUMBER	DESCRIPTION
E1	ELECTRICAL LEGEND, NOTES AND SCHEDULES
E2	FIRST FLOOR KEY PLAN
E3	POWER & SYSTEMS PLANS
E4	LIGHTING PLANS

NEW PANEL 'MR'		TYPE: MAINS: MAIN BKR:		MOUNTING: SURFACE-MOUNTED	
120V/208V, 3PH, 4W		1 100A 100A-3P		LOCATION: SEE KEY PLAN	
WATTS	DESCRIPTION	PROT.	CIRCUITS	PROT.	DESCRIPTION
	MUSIC CLASSROOM AC UNITS 'AC-1' & 'AC-2'	15A	1	2	75A MUSIC CLASSROOM CONDENSING UNIT 'CDU-1'
	RECEPTACLES	15A	5	4	2P RECEPTACLES
	RECEPTACLE	15A	7	8	15A SPARE
	SPARE	15A	9	10	15A SPARE
	SPARE	15A	11	12	15A SPARE
	SPARE	15A	13	14	15A SPARE
	SPARE	15A	15	16	15A SPARE
	SPARE	15A	17	18	15A SPARE
	SPARE	15A	19	20	15A SPARE
	SPARE	15A	21	22	15A SPARE
	SPARE	15A	23	24	15A SPARE
	SPARE	15A	25	26	15A SPARE
	SPARE	20A	27	28	20A SPARE
	SPARE	20A	29	30	20A SPARE

NOTES:
 1. PROVIDE PANELBOARD C/W COVERS AND FULL NEUTRAL COPPER BUS.
 2. PROVIDE PRINTED PANEL DIRECTORY WITH CIRCUIT NUMBER, TYPE AND LOCATION OF ALL LOADS. ALL SPARE BREAKERS SHALL BE LABELED WITH PENCIL FOR FUTURE UPDATE. PROVIDE LABEL INSIDE PANEL COVER STATING YEAR OF INSTALLATION, PANEL SOURCE LOCATION, OVERCURRENT PROTECTION AND FEEDER SIZE.
 3. PROVIDE A NEW 100A-3P BREAKER IN THE MAIN DISTRIBUTION PANEL IN THE MAIN ELECTRICAL ROOM TO FEED THIS NEW PANEL 'MR'. PROVIDE A NEW FEEDER 4#3 RW90+G IN 35mmC FROM THE MAIN DISTRIBUTION PANEL TO THE NEW PANEL 'MR'. INSTALL THE FEEDER ENTIRELY ABOVE DROP CEILING.



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MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD.
ENGINEERING CONSULTANTS

321 LAKESHORE ROAD WEST
PO BOX 59522
MISSISSAUGA, ONTARIO L5H 4L1
T (905)-290-7861

ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY



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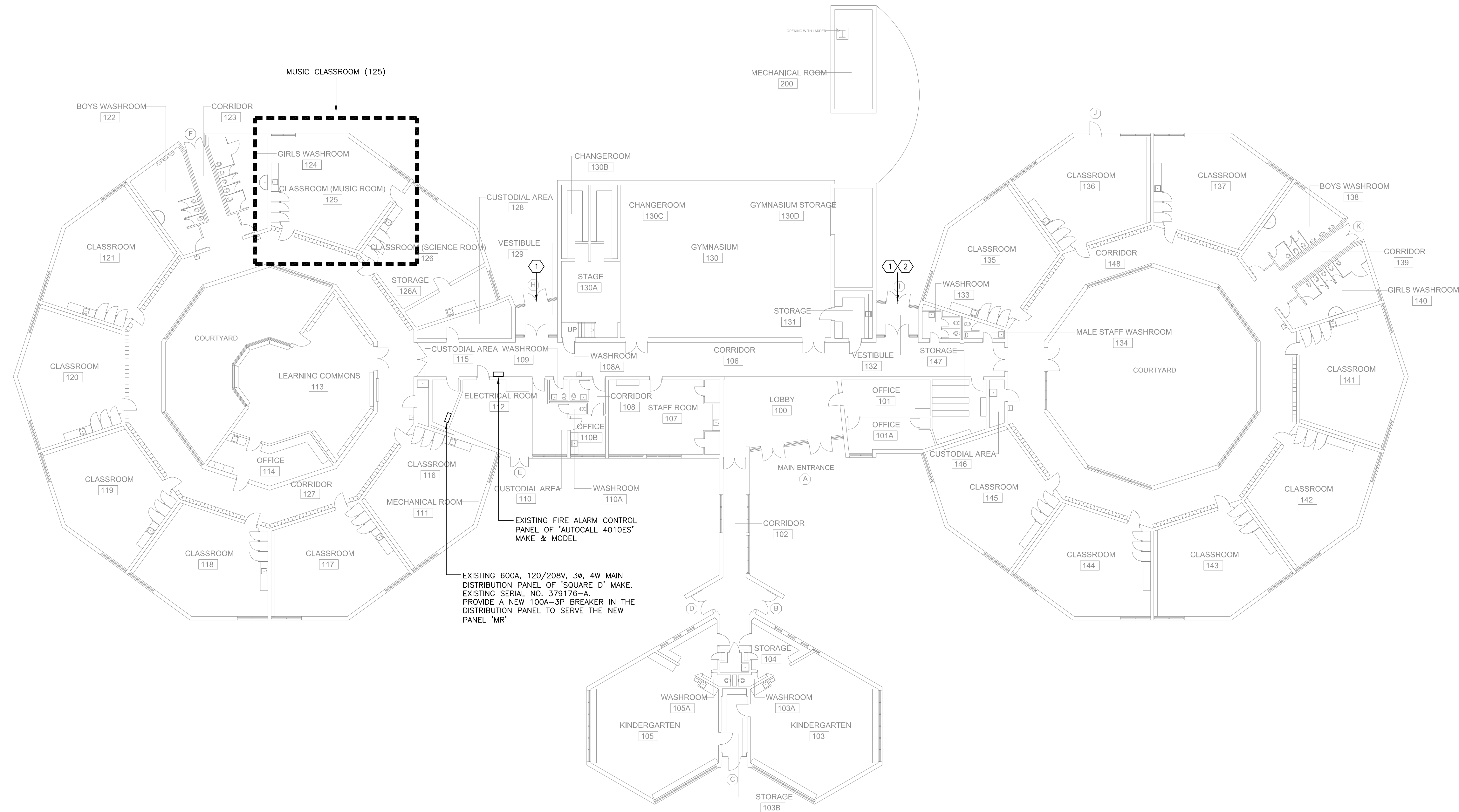
LISGAR ELEMENTARY SCHOOL
HAMILTON - WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

ELECTRICAL LEGEND, NOTES AND SCHEDULES

DRAWN BY:	CHECKED BY:
RS	SS
DATE:	JOB No.:
NOVEMBER 2024	24-244
SCALE:	SHEET No.:
AS SHOWN	E1

DRAWING NOTES:

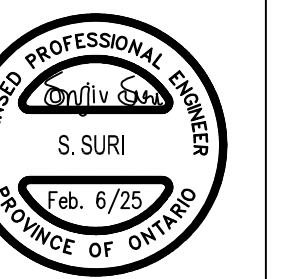
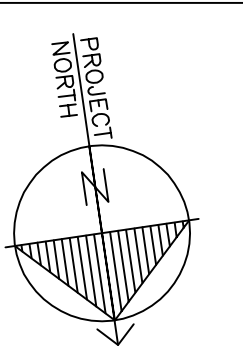
- 1 TEMPORARILY REMOVE THE EXISTING DOOR CONTACT(S) AT THE EXTERIOR DOOR AS NECESSARY TO FACILITATE REPLACEMENT OF THE EXTERIOR DOOR/FRAMES WITH NEW. PULL BACK WIRING/RACEWAYS AS NECESSARY. RE-INSTATE THE DOOR CONTACT(S) AT THE NEW DOOR/FRAME. TEST OPERATION OF THE DOOR CONTACT(S) UPON RE-INSTALLATION.
- 2 TEMPORARILY REMOVE THE EXISTING CARD READER AND ELECTRIC STRIKE AT THE EXTERIOR DOOR AS NECESSARY TO FACILITATE REPLACEMENT OF THE EXTERIOR DOOR/FRAMES WITH NEW. PULL BACK WIRING/RACEWAYS AS NECESSARY. RE-INSTATE THE CARD READER AND ELECTRIC STRIKE AT THE NEW DOOR/FRAME. TEST OPERATION OF THE CARD READER AND ELECTRIC STRIKE UPON RE-INSTALLATION.



EXISTING 600A, 120/208V, 3ø, 4W MAIN DISTRIBUTION PANEL OF 'SQUARE D' MAKE. EXISTING SERIAL NO. 379176-A. PROVIDE A NEW 100A-3P BREAKER IN THE DISTRIBUTION PANEL TO SERVE THE NEW PANEL 'MR'

EXISTING FIRE ALARM CONTROL PANEL OF 'AUTOCALL 4010ES' MAKE & MODEL

1 FIRST FLOOR KEY PLAN
E2 SCALE: 1/16" = 1'-0"



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ENGINEERING CONSULTANTS

321 LAKESHORE ROAD WEST
PO BOX 59522
MISSISSAUGA, ONTARIO
LSH 4L1
T (905)-290-7861

ELECTRICAL
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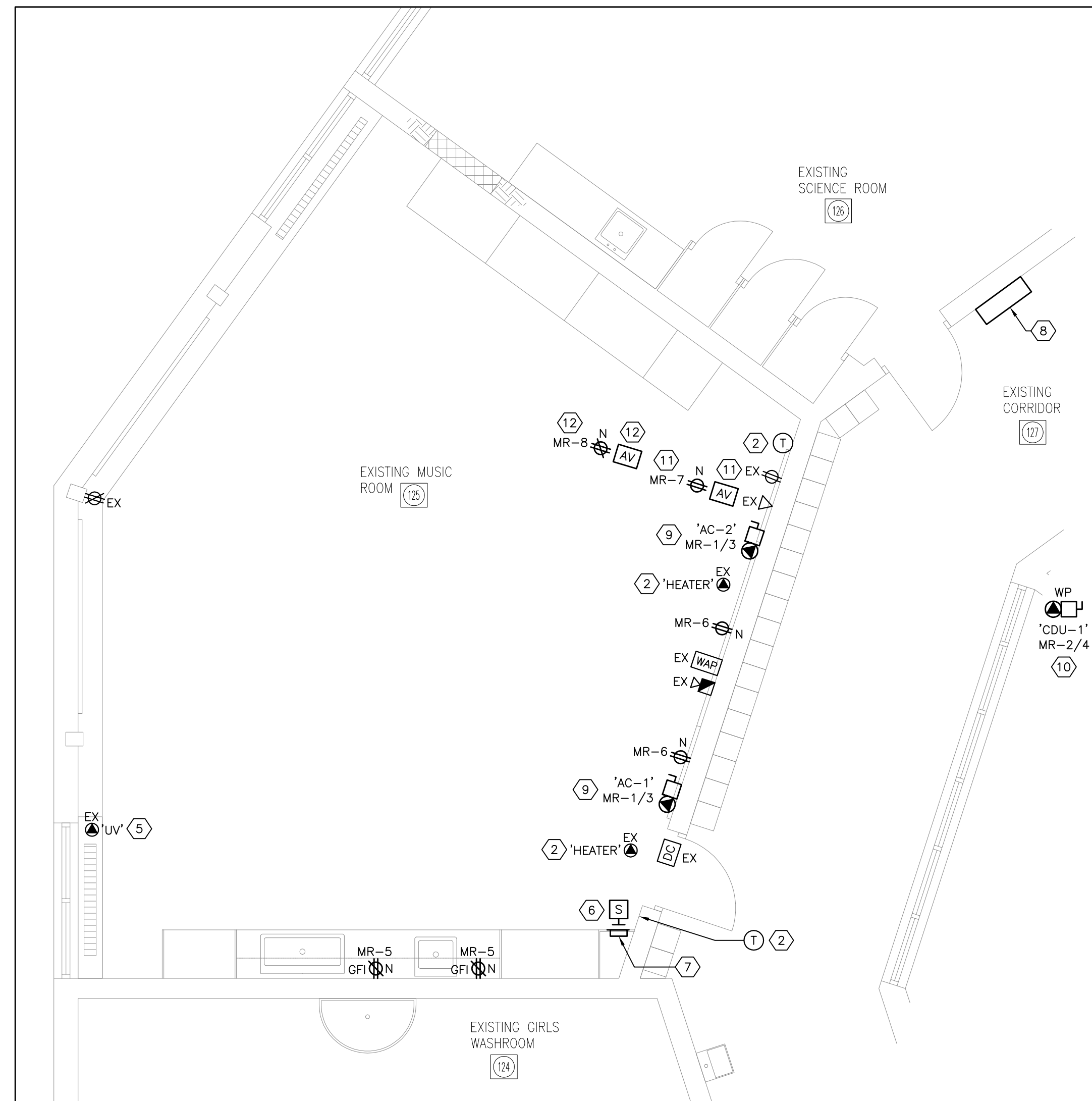
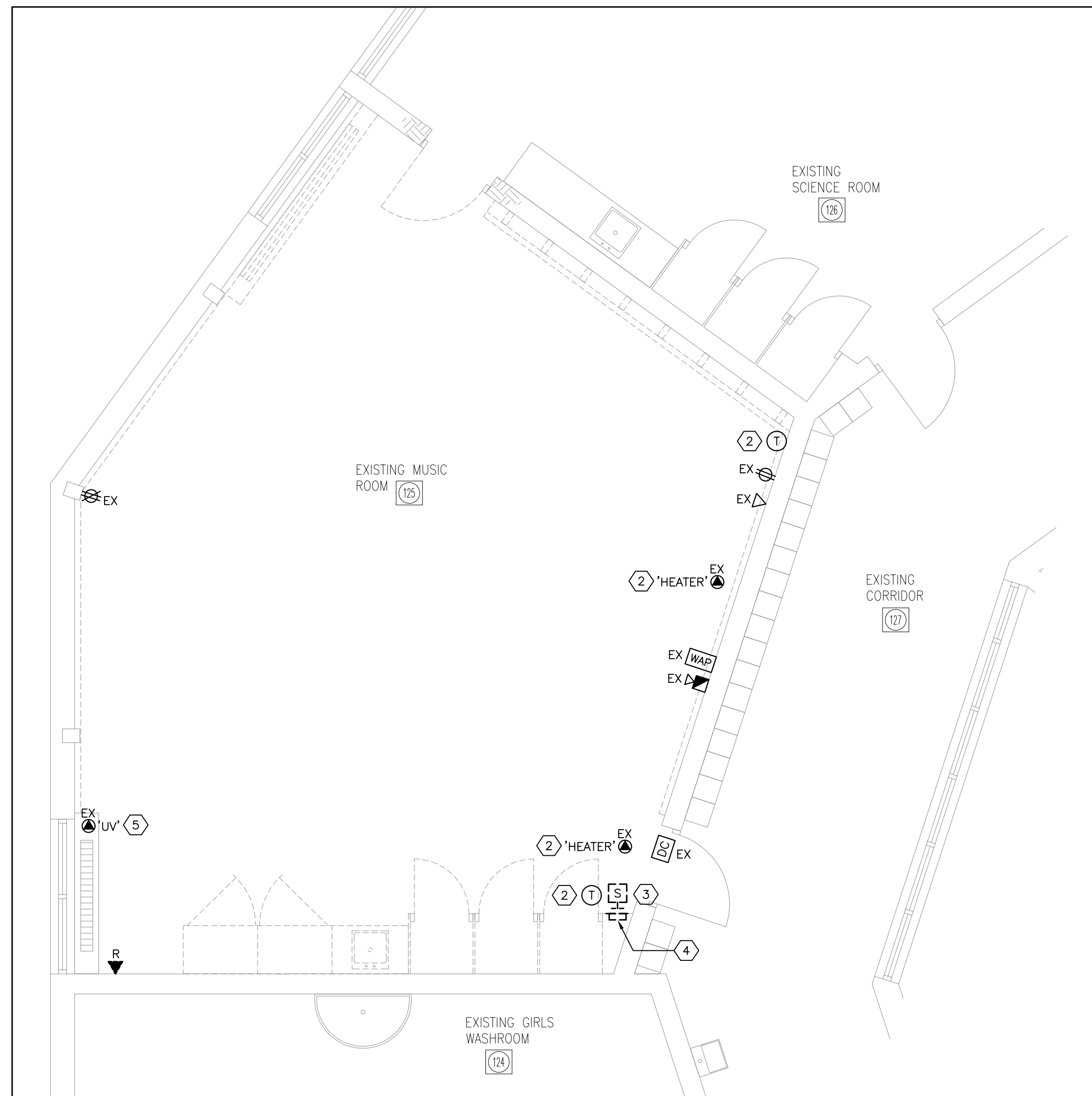


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LISGAR ELEMENTARY SCHOOL
HAMILTON – WENTWORTH DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

FIRST FLOOR KEY PLAN

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RS	SS
DATE:	JOB No.:
NOVEMBER 2024	24-244
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AS SHOWN	E2

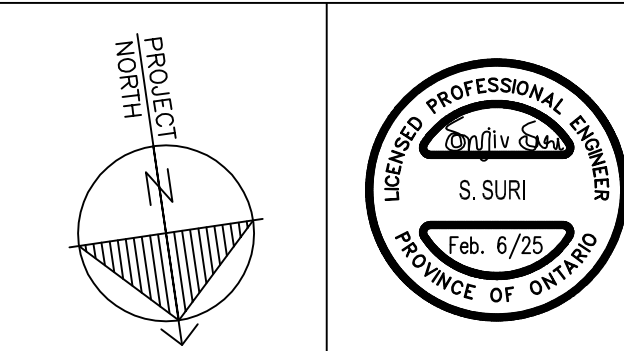


1 EXISTING POWER & SYSTEMS PLAN
E3 SCALE: 1/4" = 1'-0"

2 NEW POWER & SYSTEMS PLAN
E3 SCALE: 1/4" = 1'-0"

DRAWING NOTES:

1. PROTECT ALL EXISTING TO REMAIN DEVICES AND EQUIPMENT IN THE AREA OF WORK THROUGHOUT CONSTRUCTION FROM DUST, DEBRIS AND DAMAGE.
2. EXISTING POWER CONNECTIONS TO THE ELECTRIC UNIT HEATERS ARE TO REMAIN AS IS. EXISTING WALL-MOUNTED THERMOSTAT IS TO REMAIN AS IS.
3. REMOVE THE EXISTING P.A. SPEAKER (C/W INTEGRATED CALL SWITCH) TO FACILITATE DEMOLITION OF THE MILLWORK AND REPLACE WITH NEW. PULL BACK WIRING AS REQUIRED. RETAIN 'HAMILTON VIDEO AND SOUND' FOR ALL P.A. RELATED WORK.
4. REMOVE THE EXISTING RECESSED, 4-CIRCUIT BREAKER PANEL 'A' SERVING THE CLASSROOM LOADS TO FACILITATE DEMOLITION OF THE MILLWORK AND REPLACE WITH NEW. PULL BACK WIRING/CONDUIT AS REQUIRED.
5. EXISTING POWER CONNECTIONS TO THE ELECTRIC UNIT HEATERS ARE TO REMAIN AS IS. EXISTING WALL-MOUNTED THERMOSTAT IS TO REMAIN AS IS.
6. PROVIDE A NEW P.A. SPEAKER C/W INTEGRATED CALL SWITCH RECESSED IN THE NEW MILLWORK UNIT. TEST OPERATION OF THE SPEAKER AFTER REINSTATEMENT. MODIFY ALL WIRING/CONDUIT TO SUIT. RETAIN 'HAMILTON VIDEO AND SOUND' FOR ALL P.A. RELATED WORK.
7. PROVIDE A NEW RECESSED, 8-CIRCUIT BREAKER PANEL 'A' IN THE NEW MILLWORK UNIT. TEST OPERATION OF ALL CIRCUITS AFTER REINSTATEMENT. MODIFY ALL WIRING/CONDUIT TO SUIT.
8. NEW 120/208V, 3Ø, 4W ELECTRICAL PANEL 'MR' IN THE CORRIDOR. PROVIDE A NEW FEEDER (4#3 RW90+G IN 35mmC) FROM THE NEW 100A-3P BREAKER IN THE MAIN DISTRIBUTION PANEL IN THE ELECTRICAL ROOM - SEE KEY PLAN FOR LOCATION.
9. PROVIDE 208V/1Ø POWER CONNECTION C/W LOCAL DISCONNECT SWITCH TO EACH HI-WALL AC UNIT 'AC-1'. COORDINATE ROUGH-IN AND FINAL CONNECTIONS WITH THE MECHANICAL CONTRACTOR. CONNECT TO THE CIRCUIT NOTED.
10. PROVIDE 208V/1Ø POWER CONNECTION C/W LOCAL WEATHERPROOF DISCONNECT SWITCH FOR THE OUTDOOR CONDENSING UNIT 'CDU-1'. COORDINATE ROUGH-IN AND FINAL CONNECTIONS WITH THE MECHANICAL CONTRACTOR. CONNECT TO THE CIRCUIT NOTED.
11. PROVIDE A NEW DUPLEX RECEPTACLE AND 2-HDMI OUTLET AT LOW-LEVEL BELOW THE NEW WHITEBOARDS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
12. PROVIDE A NEW DUPLEX RECEPTACLE AND 2-HDMI OUTLET AT LOW-LEVEL BELOW THE NEW WHITEBOARDS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
13. REPLACE ALL EXISTING RECEPTACLES WITH NEW WHITE DECORA TYPE RECEPTACLES COMPLETE WITH STAINLESS STEEL COVERPLATE.
14. ALL NEW SWITCHES AND RECEPTACLES SHALL BE OF WHITE DECORA TYPE WITH STAINLESS STEEL COVERPLATES.



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Suri & Associates Ltd.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD.
ENGINEERING CONSULTANTS

321 LAKESHORE ROAD WEST
PO BOX 59522
MISSISSAUGA, ONTARIO
LSH 4L1
T (905)-290-7861

ELECTRICAL
MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



**HAMILTON-
WENTWORTH**
DISTRICT
SCHOOL
BOARD

4.	RE-ISSUED FOR TENDER	FEB. 6, 2025
3.	RE-ISSUED FOR TENDER	JAN. 17, 2025
2.	ISSUED FOR TENDER	NOV. 20, 2024
1.	ISSUED FOR 100% REVIEW	OCT. 30, 2024
No.	REVISIONS	DATE

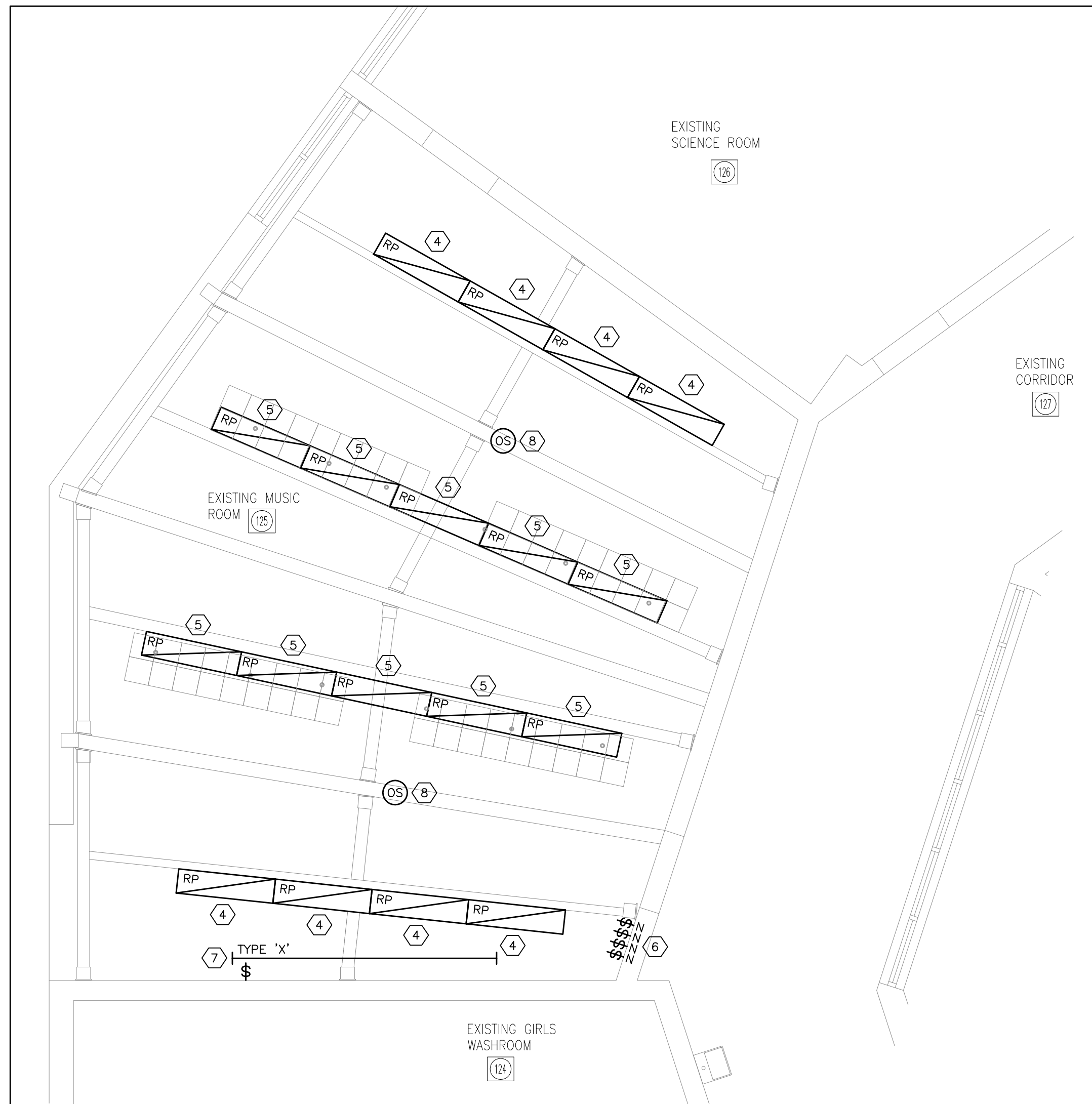
LISGAR ELEMENTARY
SCHOOL
HAMILTON - WENTWORTH
DISTRICT SCHOOL BOARD
110 ANSON AVENUE
HAMILTON, ONTARIO

POWER & SYSTEMS PLANS

DRAWN BY:	CHECKED BY:
RS	SS
DATE:	JOB No.:
NOVEMBER 2024	24-244
SCALE:	SHEET No.:
AS SHOWN	E3



1 EXISTING LIGHTING PLAN
E4 SCALE: 1/4" = 1'-0"



2 NEW LIGHTING PLAN
E4 SCALE: 1/4" = 1'-0"

DRAWING NOTES:

1. PROTECT ALL EXISTING TO REMAIN DEVICES AND EQUIPMENT IN THE AREA OF WORK THROUGHOUT CONSTRUCTION FROM DUST, DEBRIS AND DAMAGE.
2. REMOVE AND REPLACE THE EXISTING SURFACE-MOUNTED LIGHT FIXTURE. DISPOSE OF THE FIXTURE, LAMPS AND BALLASTS OFF SITE AS PER REGULATORY REQUIREMENTS. PROVIDE A COPY OF THE RECYCLING RECEIPT TO THE OWNER. MODIFY THE EXISTING CONDUITS SERVING THE LIGHTING TO SUIT THE NEW FIXTURES (NOTE THAT THE EXISTING ACOUSTIC TILES ARE ABESTOS CONTAINING; DO NOT FASTEN ANYTHING TO THE ACOUSTIC TILES). REMOVE ALL EXISTING WIRING BETWEEN THE PANEL AND THE LIGHT FIXTURES AND REPLACE WITH NEW.
3. REMOVE AND REPLACE THE EXISTING SUSPENDED LIGHT FIXTURE. DISPOSE OF THE FIXTURE, LAMPS AND BALLASTS OFF SITE AS PER REGULATORY REQUIREMENTS. PROVIDE A COPY OF THE RECYCLING RECEIPT TO THE OWNER. MODIFY THE EXISTING CONDUITS SERVING THE LIGHTING TO SUIT THE NEW FIXTURES (NOTE THAT THE EXISTING ACOUSTIC TILES ARE ABESTOS CONTAINING; DO NOT FASTEN ANYTHING TO THE ACOUSTIC TILES). REMOVE ALL EXISTING WIRING BETWEEN THE PANEL AND THE LIGHT FIXTURES AND REPLACE WITH NEW.
4. PROVIDE A NEW SURFACE-MOUNTED LIGHT FIXTURE OF TYPE 'F1' TO REPLACE THE EXISTING. CONNECT LIGHT FIXTURES TO BREAKER #1 IN PANEL 'A'. MODIFY THE EXISTING CONDUITS SERVING THE LIGHTING TO SUIT THE NEW FIXTURES (NOTE THAT THE EXISTING ACOUSTIC TILES ARE ABESTOS CONTAINING; DO NOT FASTEN ANYTHING TO THE ACOUSTIC TILES). PROVIDE NEW WIRING BETWEEN THE PANEL AND THE LIGHT FIXTURES. PROVIDE 0-10V DIMMING WIRING FROM THE NEW DIMMING LIGHT SWITCHES TO ALL FIXTURES; PROVIDE NEW RACEWAYS AS REQUIRED.
5. PROVIDE A NEW SUSPENDED LIGHT FIXTURE OF TYPE 'F2' TO REPLACE THE EXISTING. CONNECT LIGHT FIXTURES TO BREAKER #1 IN PANEL 'A'. PROVIDE NEW CONDUIT/WIRING FROM THE CIRCUIT TO THE LIGHT FIXTURES THROUGH THE NEW SWITCH. MODIFY THE EXISTING CONDUITS SERVING THE LIGHTING TO SUIT THE NEW FIXTURES (NOTE THAT THE EXISTING ACOUSTIC TILES ARE ABESTOS CONTAINING; DO NOT FASTEN ANYTHING TO THE ACOUSTIC TILES). PROVIDE NEW WIRING BETWEEN THE PANEL AND THE LIGHT FIXTURES. PROVIDE 0-10V DIMMING WIRING FROM THE NEW DIMMING LIGHT SWITCHES TO ALL FIXTURES. ; PROVIDE NEW RACEWAYS AS REQUIRED.
6. PROVIDE NEW LOW-VOLTAGE DIMMING ON/OFF/DIM UP/DIM DOWN SWITCHES ON THE WALL. EACH LIGHT SWITCH SHALL CONTROL ONE ROW OF LIGHTS. PROVIDE NEW WIRING TO SUIT. DIMMER SWITCH SHALL BE SUITABLE FOR 0-10V DIMMING (LUTRON OR APPROVED EQUAL).
7. PROVIDE A NEW UNDERCABINET LIGHT OF TYPE 'X' AS SPECIFIED UNDER THE NEW UPPER CABINETS. CONNECT TO BREAKER #1 IN PANEL 'A'. PROVIDE A LINE-VOLTAGE ON/OFF SWITCH TO CONTROL THE UNDERCABINET LIGHT.
8. PROVIDE NEW LOW-VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSORS TO CONTROL THE GENERAL SPACE LIGHTING AND UNDERCABINET LIGHTING IN THE CLASSROOM. PROVIDE ALL NECESSARY POWER PACKS. POWER PACKS SHALL BE INSTALLED UPSTREAM OF THE LINE-VOLTAGE LIGHTING SWITCHES.

LIGHTING SPECIFICATIONS:

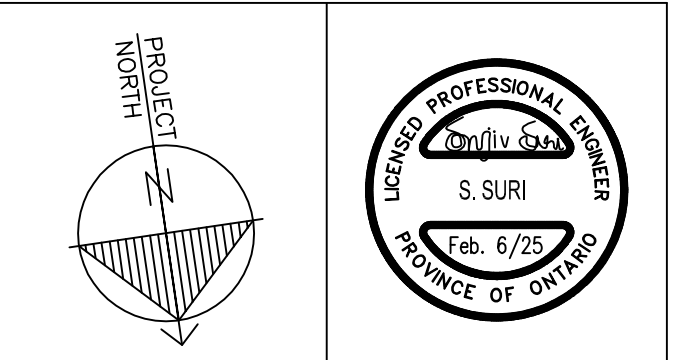
LIGHT FIXTURE TYPE 'F1' - LITHONIA CPX 1X4 AL07 SSW7 M4 COMPLETE WITH 1X4SMKSH MULTI-USE SURFACE MOUNT KIT 1X4, SHALLOW DEPTH. SET FIXTURE TO 4000K, HIGH LUMEN OUTPUT.

LIGHT FIXTURE TYPE 'F2' - LITHONIA CPX 1X4 AL07 SSW7 M4 COMPLETE WITH PAC 2DNF 36 PANEL AIR CRAFT KIT. SET FIXTURE TO 4000K, HIGH LUMEN OUTPUT.

LIGHT FIXTURE TYPE 'X' - OPTIC ARTS LL42-VHO-41K C/W KS CHANNEL WITH HALF (50%) FROSTED LENS [LENGTH AS PER DRAWING]. PROVIDE ALL NECESSARY POWER SUPPLIES, MOUNTING KITS, JOINING KITS, AND OTHER ACCESSORIES FOR A CONTINUOUS LINEAR LENGTH AND UNIFORM OPERATION.

OCCUPANY SENSORS - ACUITY nLIGHT nCM PDT 10 RJB AR (C/W 4 X nPP16-D-EFP POWER PACKS) OR EQUAL. ALL CABLING SHALL BE RUN IN CONDUIT.

SUBMIT SHOP DRAWINGS FOR THE NEW LIGHT FIXTURES AND LIGHTING CONTROLS PRIOR TO ORDERING. SITE VERIFY THE EXISTING LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING THE NEW LIGHTING.



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LIGHTING PLANS

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RS	SS
DATE:	JOB No.:
NOVEMBER 2024	24-244
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AS SHOWN	E4