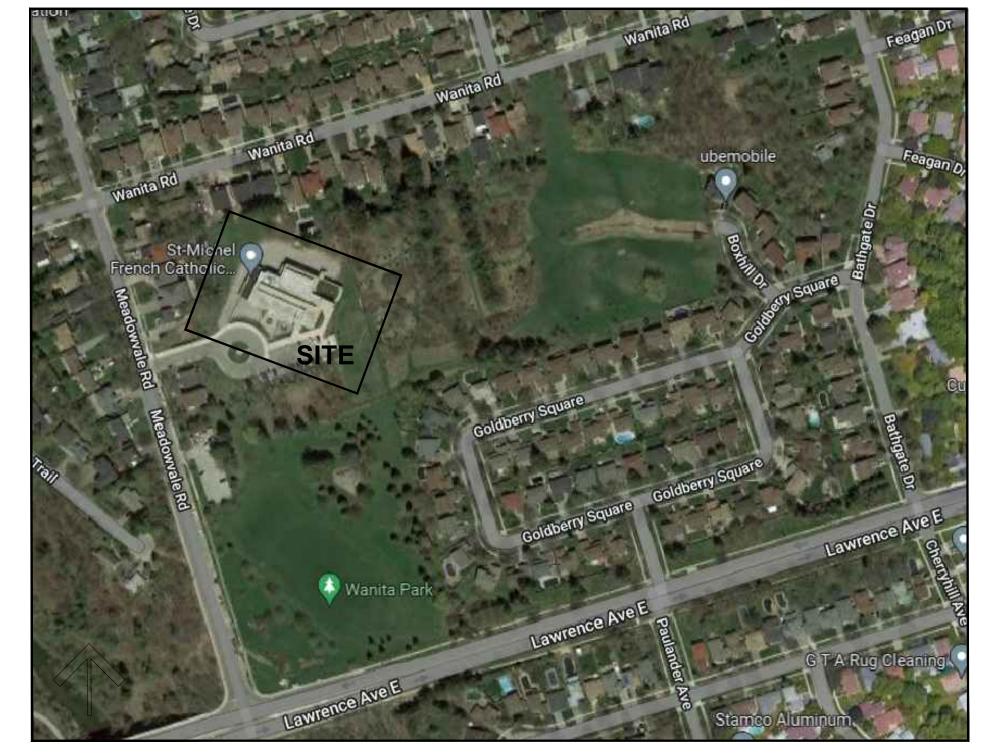


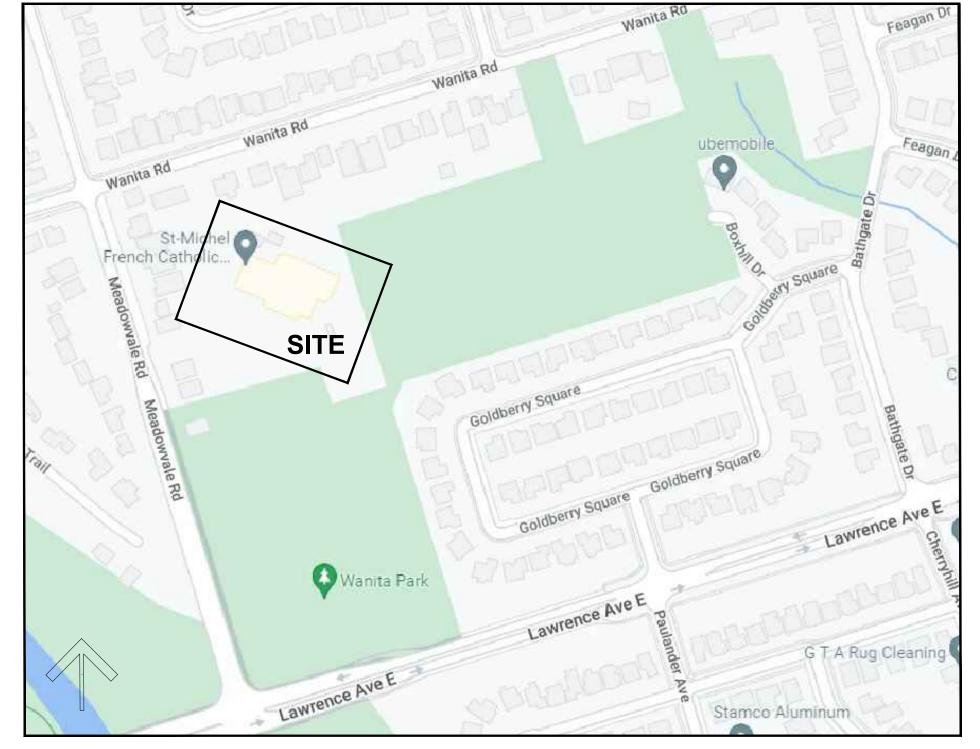
ÉÉC SAINT-MICHEL

Classrooms Addition

29 MEADOWVALE RD, SCARBOROUGH, ONTARIO M1C 1R7



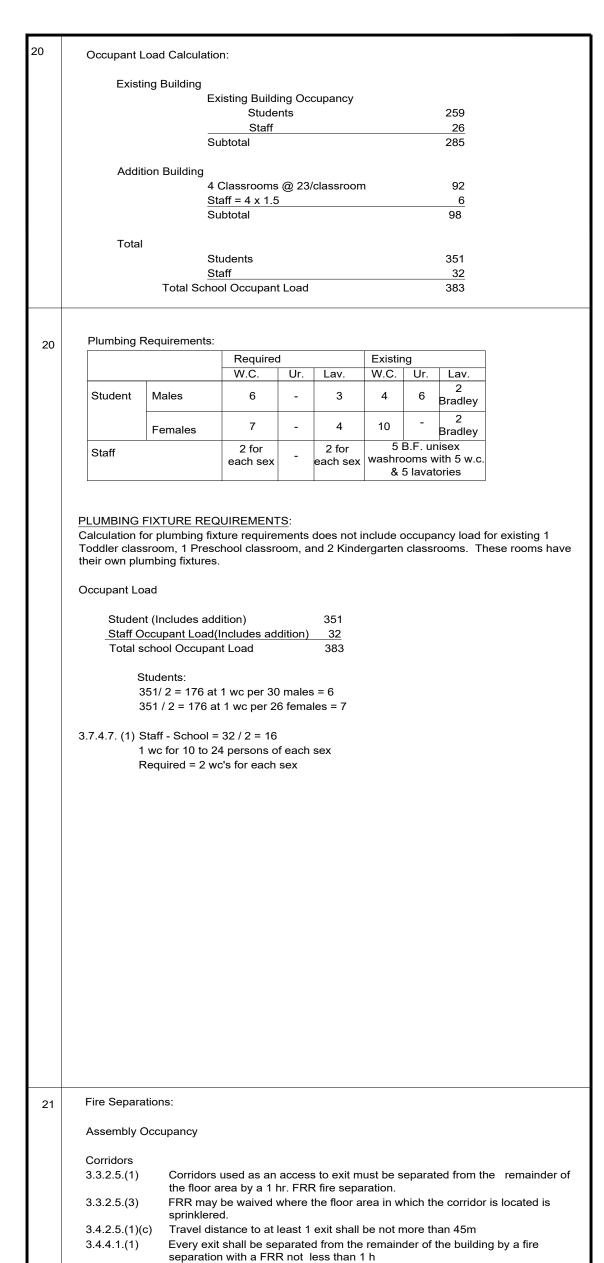
SATELLITE VIEW



KEY PLAN

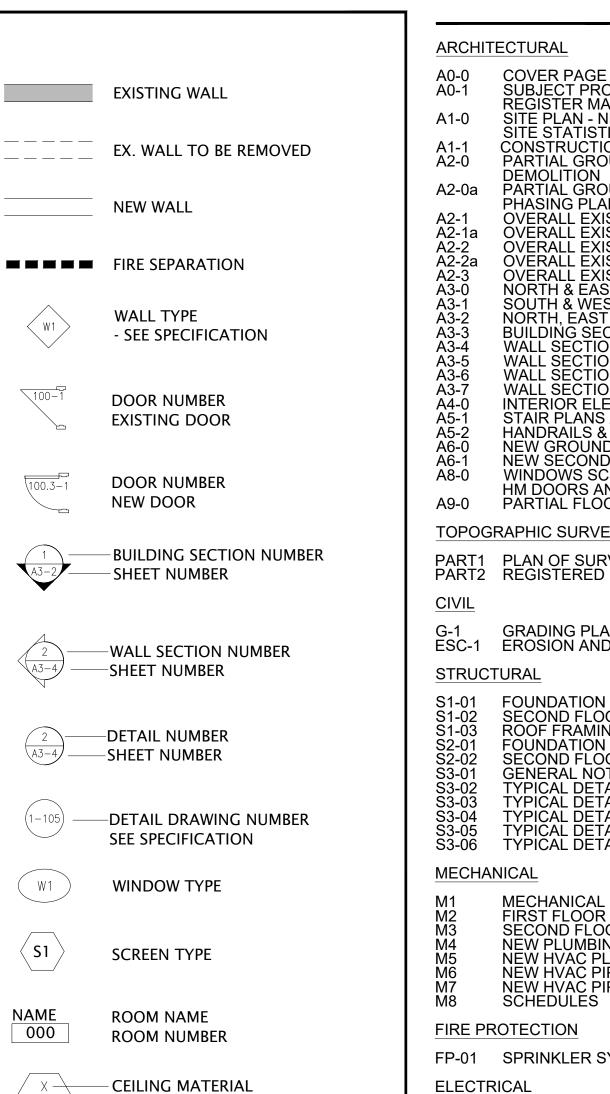
ONTARIO BUILDING CODE DATA MATRIX

Firm	Name) :			Kin	gsland +	- Architects I	nc.					
The C	ertificat	of Pract e of Pract nolder's B	ice Nur		454 e	19							
	Addre matior	ess and	Conta	ct	Par O. <i>P</i> 219 Tor Tel Fac	A.A., LEB Duffering Conto, Or Ephone: Esimile: 4	E.S., B.Arch.	te 308l J1 ⁷ 99 x ²	105				
Nam	e and	Address	s of Pi	roject:	Clas 29 M	ssrooms EADOWVA RBOROUGH	-MICHEL Addition LE RD, , ONTARIO			exe with The	architect not rcised respo respect to de architect's s the architect	nsible esign eal n	e control activities. umber is
	C	ntario E	Buildin	g Code	Data Mat	rix - Pa	arts 3 & 9				OBC Refe	eren	се
1	Proje	ct Descrip	otion:			□ N	ew ddition	□Р	art 11	■ Part			art 9
				☐ Cha	ange of Use		Iteration			1.1.2. [/	4]		
2	Majo	r Occupar	ncy(s):	Grou	p A, Division	2				3.1.2.1.	(1)		
3	Build	ing Area ((m²)	Existir	ng: 1,970.80m²	New:	302.00 m²	Total:	2,272.80 m²	1.4.1.2.	[A]		
4	Gros	s Area (m	n²)	Existir	ng: 3,052.90 m²	New:	550.00m²	Total:	3,602.90 m²	1.4.1.2	[A]		
5	Num	ber of Sto	reys:	Above	Grade:	2	Below 0	Grade:	0	1.4.1.2.	[A]&3.2.1.1.		
6	Num	ber of Stre	eets/Fir	e Fighter	Access:	1 EXIST	ING			3.2.2.10	0 & 3.2.5		
7	Build	ing Classi	ification		- GROUP A, DI\ A, SPRINKLERE		3.2.2.24), UP TO	6 STOR	REYS,	3.2.2.20	083		
				PROPOSE		BROUP A,	DIVISION 2 (3.2. ED	.2.24), U	PTO 6				
8	Sprir	ıkler Syste	em Proi	oosed:		■ ei	ntire building			3.2.2.24	4.		
	(Éxis	ting buildi	ng is sp	orinklered)	-F	elected comp Proposed Ad	dition	nts	3.2.1.5.			
						□ ba	elected floor asement		of roof rating	3.2.2.17 INDEX	7.		
9	Stan	dpipe requ	uired:			□ Y	•	No		3.2.9.1			
10	Fire /	Alarm requ	uired: (E	Existing Fi	re Alarm)	■ Y	es □ l	No		3.2.4.1			
11	Wate	er Service	/Supply	is adequ	ate:	■ Y	'es □ l	No		3.2.5.7			
12	High	Building:				□ Y	es ■ 1	No		3.2.6.1			
13		struction R al Constru					d ■ Non-com		uired□ Both ole □ Both	3.2.2.24	4.		
14	Mezz	zanine(s)	Area (n	n²): N/A						3.2.1.1	.(3)-(8)		
15	Осси	ıpant Load	d based	l: 🗆 m	n²/person	■ de	esign of build	ding		3.1.17.			
	Exist Addi	ing:		Occ	upancy A2	2	Load EXIS	TING	persons persons				
16	Barri	er-free De	esign:	■ Y						3.8			
17	Haza	ırdous Sul	bstance	es: 🗆 Y	es I N	lo				3.3.1.2	& 3.3.1.19.		
18	Requ	ıired	Но	rizontal A	ssemblies		Listed Desig	gn No.	or	3.2.2.24	4		
	Fire Resis	stance		R (Hours	<u>, </u>		Description	` ')				
		ig (FRR)	Floo		1 Hr.			/A					
			Roo		N/A			/A					
				zzanine: RR of Supp	N/A porting Mem	bers	Listed Desig	/A gn No.	or				
				1-1			Description	(SB-2)					
			Floo		1 Hr.			/A					
			Roo		N/A			/A					
				zzanine:	N/A			/A					
19	_						of New Additi				, 3.2.3.7		
	Wall	Area of EBF(m²)	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Propos % of Openin	(Hours)		ted Design Description	Comb. Const.	Comb. Cor Nonc. Clad		Non-com Const.
	North	201.38	7.73	3:1 to 10:1	66	27.78	8 45 Min.				_		
	South	_	_	_		_	_		_	_			_
	\vdash		7.73	< 3:1	88	15.60) 45 Min.		_		_		
	East	95.90	1.13	٦ ٥.١			I						



Ontari	o Building Code Da	ta Matrix - Parts 11 - Renovat	ion of Existi	ng Building	OBC Reference
11.1	Project Description:	Construction index			11.2.1.1
		☐ Not Applicable (no change of m	ajor occupancy	')	
11.2	Alteration to Existing Building is:	Basic Renovation			11.3.3.1
11.3	Reduction in				11.4.2
-	Performance Level:	Structural:	□ No	☐ Yes	11.4.2.1
		By Increase in occupant load:	□ No	☐ Yes	11.4.2.2
		By change of major occupancy: Plumbing:	□ No □ No	□ Yes □ Yes	11.4.2.3 11.4.2.4
		Sewage-system:	□ No	□ Yes	11.4.2.5
					11.4.3
11.4	Compensating Construction:	Structural:	□ No	☐ Yes (explain)	11.4.3.2
		Increase in occupant load:	□ No	☐ Yes (explain)	11.4.3.3
		Change of major occupancy:	□ No	☐ Yes (explain)	11.4.3.4
		Plumbing: Additional plumbing facilities adde	□ No	☐ Yes (explain)	11.4.3.5
		Sewage System:	□ No	☐ Yes (explain)	11.4.3.6
11.5	Compliance Alternatives Proposed:	☐ No ☐ Yes (give number(s))			11.5.1
11.6	Alternative Measures Proposed:	☐ No ☐ Yes (explain)			11.5.2

SYMBOL LEGEND



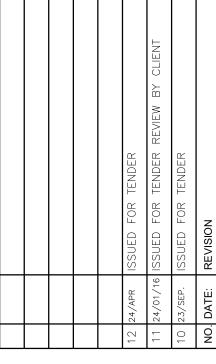
X — CEILING HEIGHT

SCHEDULE SEE SPECIFICATION.

FOR DOOR SCHEDULE AND ROOM FINISH

LIST OF DRAWINGS

A0-0 A0-1	COVER PAGE SUBJECT PROPERTY IN PARTIAL CITY'S HERITAGE
A1-0	REGISTER MAP SITE PLAN - NEW & DEMOLITION &
A1-1 A2-0	SITE STATISTICS CONSTRUCTION & TREE PRESERVATION & HOARDING PLAN PARTIAL GROUND FLOOR PLAN & SECOND FLOOR PLAN -
A2-0a	DEMOLITION PARTIAL GROUND FLOOR PHASING PLAN & SECOND FLOOR
A2-1 A2-1a A2-2 A2-2a A2-3 A3-0 A3-1 A3-2 A3-3 A3-4 A3-5 A3-6 A3-7 A4-0 A5-1	PHASING PLAN - DEMOLITION OVERALL EXISTING & NEW GROUND FLOOR PLAN OVERALL EXISTING & NEW SECOND FLOOR PHASING PLAN OVERALL EXISTING & NEW SECOND FLOOR PHASING PLAN OVERALL EXISTING & NEW SECOND FLOOR PHASING PLAN OVERALL EXISTING & NEW ROOF PLAN NORTH & EAST EXISTING BUILDING ELEVATIONS & DEMOLITION SOUTH & WEST EXISTING BUILDING ELEVATIONS & DEMOLITION NORTH, EAST & WEST PROPOSED BUILDING ELEVATIONS BUILDING SECTIONS & DETAILS WALL SECTIONS WALL SECTIONS WALL SECTIONS INTERIOR ELEVATIONS STAIR PLANS AND SECTIONS
A5-2 A6-0	HANDRAILS & GUARDRAILS AND CANOPY DETAILS NEW GROUND FLOOR REFELCTED CEILING PLAN
A6-1 A8-0	NEW SECOND FLOOR REFELCTED CEILING PLAN WINDOWS SCHEDULE, DOOR TYPES &
A9-0	HM DOORS AND SCREENS SCHEDULE PARTIAL FLOOR PLANS - FINISHES
TOPOG	RAPHIC SURVEY
PART1 PART2	PLAN OF SURVEY AND TOPOGRAPHY REGISTERED EASEMENTS AND/OR RIGHT-OF-WAY
CIVIL	
G-1 ESC-1	GRADING PLAN EROSION AND SEDIMENT CONTROL PLAN
STRUC	ΓURAL
\$1-01 \$1-02 \$1-03 \$2-01 \$2-02 \$3-01 \$3-02 \$3-03 \$3-04 \$3-05 \$3-06	FOUNDATION PLAN SECOND FLOOR / LOW ROOF FRAMING PLAN ROOF FRAMING PLAN AND ROOF SECTIONS FOUNDATION SECTIONS SECOND FLOOR SECTIONS GENERAL NOTES TYPICAL DETAILS
MECHA	NICAL
M1 M2 M3 M4 M5 M6 M7 M8	MECHANICAL LEGEND AND NOTES FIRST FLOOR KEY PLAN SECOND FLOOR KEY PLAN NEW PLUMBING & DRAINAGE PLAN NEW HVAC PLAN NEW HVAC PIPING PLAN - ADDITION NEW HVAC PIPING PLAN - EXISTING SCHOOL SCHEDULES
FIRE PR	ROTECTION
FP-01	SPRINKLER SYSTEM DESIGN
ELECTR	RICAL
E1 E2 E3 E4 E5 E6 E7 E8	ELECTRICAL LEGEND AND NOTES FIRST FLOOR KEY PLAN SECOND FLOOR KEY PLAN EXISTING ELECTRICAL DEMOLITION PLANS NEW POWER & SYSTEMS PLANS NEW LIGHTING PLANS SCHEDULES & SCHEMATICS SCHEDULES & SCHEMATICS



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- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799

fax 416.203.7763





ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7
RAWING TITLE:
COVER PAGE

PROJECT NO:	SCALE:		2024
A22008	N.T.	S.	3, 2
DRAWN:	DRAWING NO:	REV.	April
T.E.			
CHECKED:	A O O	40	ED:
C.K.	A0-0	12	PLOTTED:
DATE:			

22/07/21 FILES: A22008 - A0-0 COVER.DWG

Heritage Register Search

Jse the magnifying glass to search the Register last updated as of September 2022.

Heritage Register Address Points

- Listed
- Designated Under Part IV of the Heritage Act
- Part of Heritage Conservation District

Heritage Conservation Districts

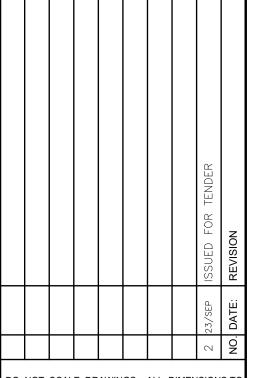
Designated District

Under Study

Under Appeal



PARTIAL CITY'S HERITAGE REGISTER MAP



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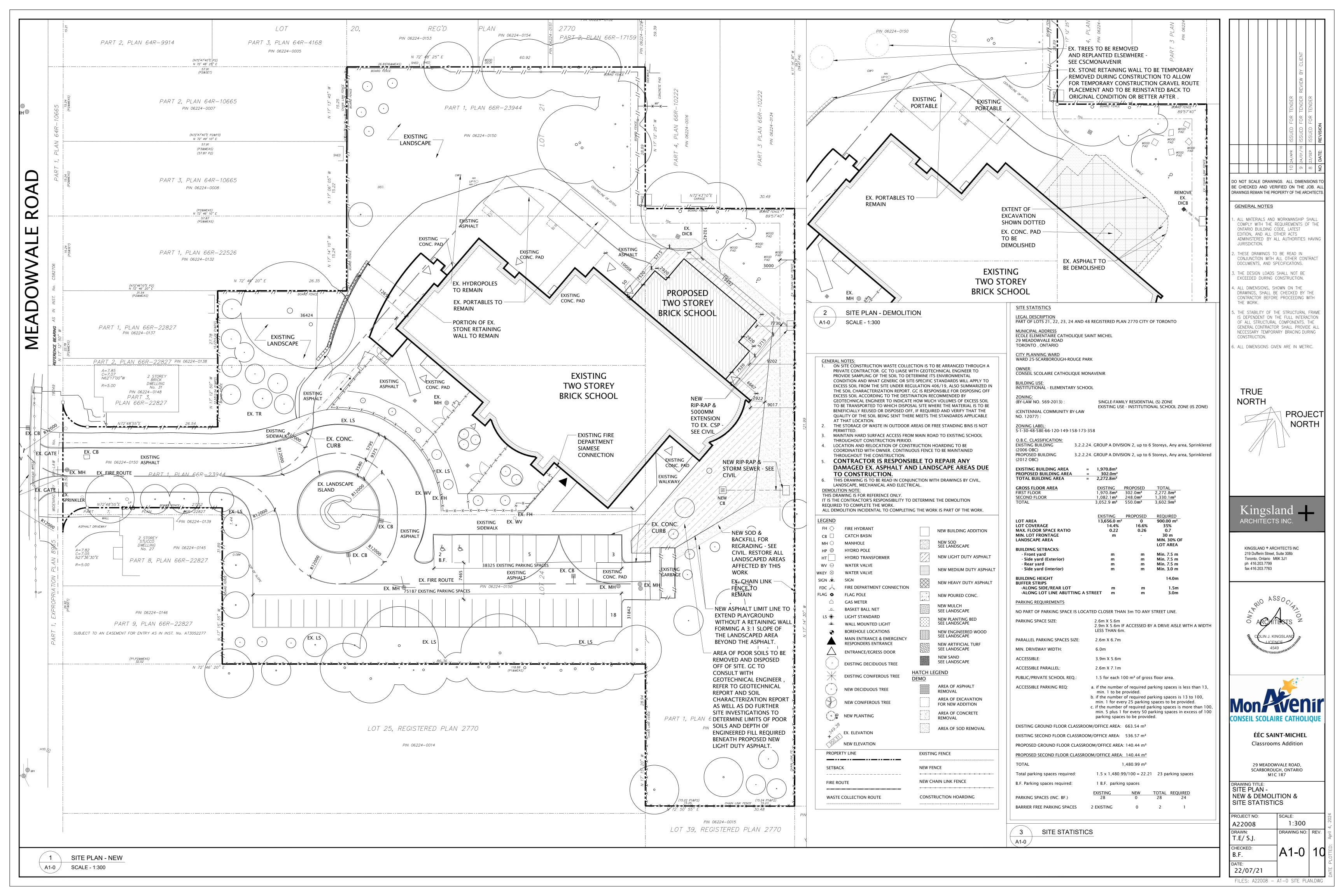
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

SUBJECT PROPERTY IN PARTIAL CITY'S HERITAGE REGISTER MAP

			1
PROJECT NO:	SCALE:		2024
A22008	N.T.S.		3, 2
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DATE:			
22/07/21			DATE

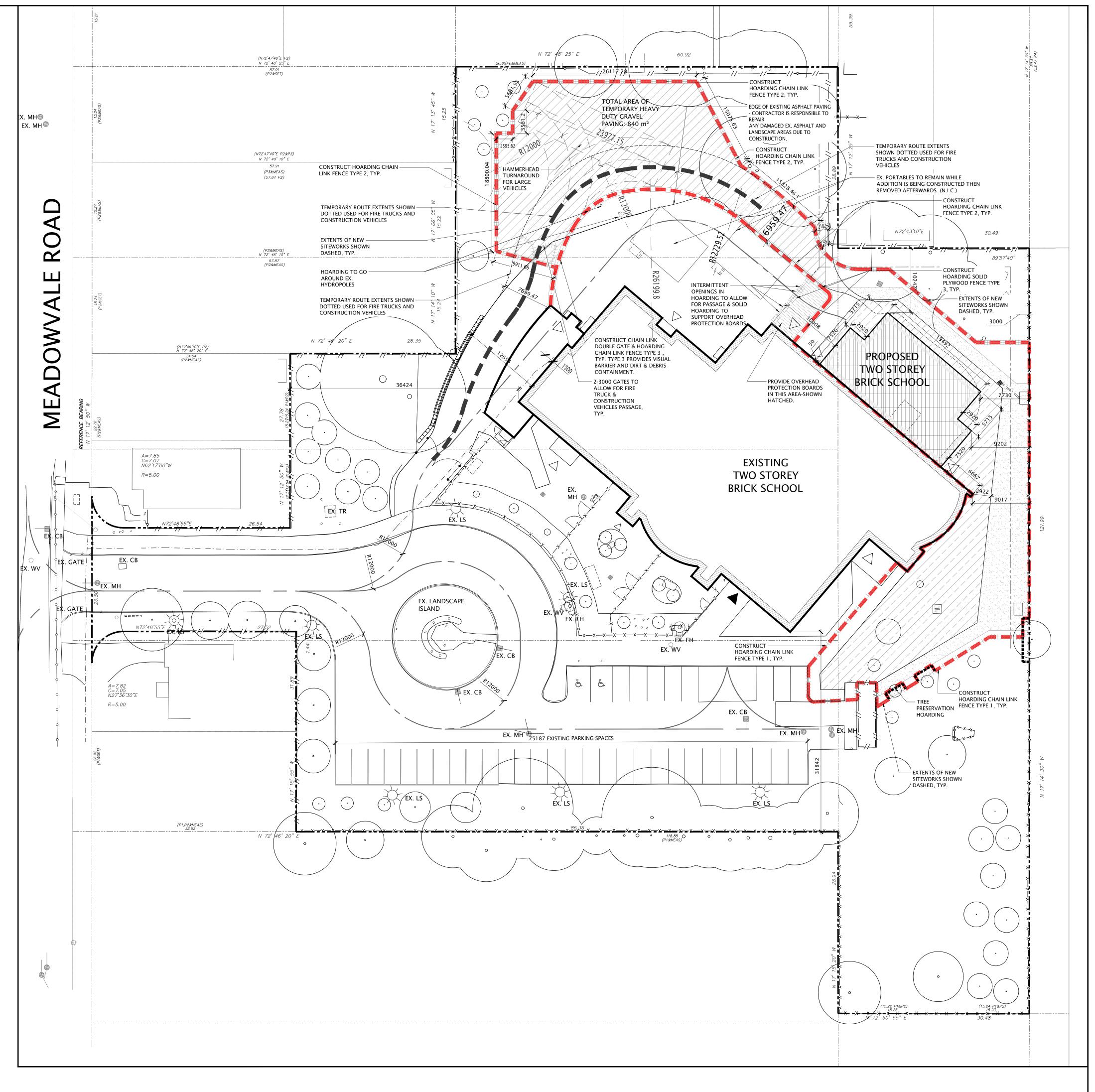
FILES: A22008 - A1-0 SITE PLAN.DWG

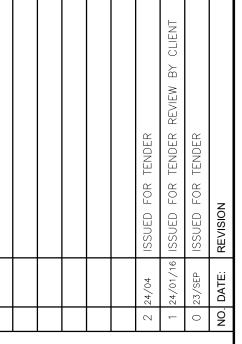


HOARDING FENCE ASSEMBLY STANDARDS: FOR CHAIN LINK HOARDING TYPE 1& 2: (a) THE MESH SHALL HAVE OPENINGS NO LARGER THAN 50 MILLIMETRES; (b) THE MESH SHALL BE FASTENED SECURELY BOTH TO VERTICAL STEEL POSTS AND TO TOP AND BOTTOM HORIZONTAL STEEL RAILS OR 9-GAUGE STEEL WIRE; AND (c) THE VERTICAL STEEL POSTS SHALL BE SPACED AT NOT MORE THAN 3600MM OC AND EITHER EMBEDDED AT LEAST 600 MM INTO THE GROUND OR SECURED WITH MIN. 9.4MM THICK SOLID STEEL GROUND STANDS. (d) PROVIDE APPROPRIATE PRECAST CONCRETE HOARDING BLOCKS STAGING WHERE INDICATED IN PLAN. (e) PROVIDE HIGH-DENSITY POLYETHYLENE KNIT SCREENING OR EQUIVALENT WHERE NECESSARY TO REDUCE DUST AND DEBRIS TRANSFER FROM CONSTRUCTION AREA TO EXISTING SCHOOL. HOARDING FENCE GENERAL NOTES: THE HOARDING IS TO BE SUPPLIED, INSTALLED AND MAINTAINED IN GOOD CONDITION BY THE GC AT HIS OWN COST PRIOR TO ANY DEMOLITION, TOPSOIL STRIPPING, PRESERVICING, OR ANY CONSTRUCTION ACTIVITIES ON SITE. THE HOARDING IS TO BE MAINTAINED IN GOOD REPAIR THROUGHOUT ALL PHASES OF SERVICING AND CONSTRUCTION ON THE SITE. GC TO LIAISE WITH CITY TO COMPLETE A HOARDING INSPECTION IN ADVANCE OF CONSTRUCTION ACTIVITIES. LEGEND: **HOADING FENCES TYPES:** HOARDING CHAIN LINK FENCE TYPE 1 MIN. 1800MM HIGH, BEFORE AND DURING NEW ADDITON BUILDING CONSTRUCTION, TYP. HOARDING CHAIN LINK FENCE **TYPE 2** MIN. 1800MM HIGH ANCHORED ON APPROPRIATE PRECAST CONCRETE BLOCKS STAGING, BEFORE AND DURING NEW ADDITON BUILDING CONSTRUCTION, TYP. HOARDING SOLID PLYWOOD FENCE TYPE 3 MIN. 1800MM HIGH ANCHORED ON APPROPRIATE PRECAST CONCRETE BLOCKS STAGING W/ OVERHEAD PROTECTION BEFORE AND DURING NEW ADDITON BUILDING CONSTRUCTION, TYP. TREE PRESERVATION HOARDING BEFORE AND DURING NEW ADDITON BUILDING CONSTRUCTION, TYP. TEMPORARY GRAVELLED AREA BEFORE AND DURING NEW ADDITON BUILDING CONSTRUCTION, TYP. EXTENTS OF NEW SITEWORKS

GENERAL NOTE:

ALL HOARDING, GRAVEL ROUTE & GC STAGING AREA TO BE COMPLETED IN PHASE 1: JULY 2024 - AUGUST 2024.





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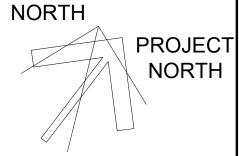
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OF ALL STRUCTURAL COMPONENTS. THE
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NECESSARY TEMPORARY BRACING DURING

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TRUE

THE WORK.

CONSTRUCTION.



Kingsland —

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799

fax 416.203.7763





ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:
CONSTRUCTION & TREE
PRESERVATION & HOARDING PLAN

PROJECT NO: SCALE: 1:300

DRAWN: T.E/ S.J.

CHECKED: C.K.

DATE: 22/07/21

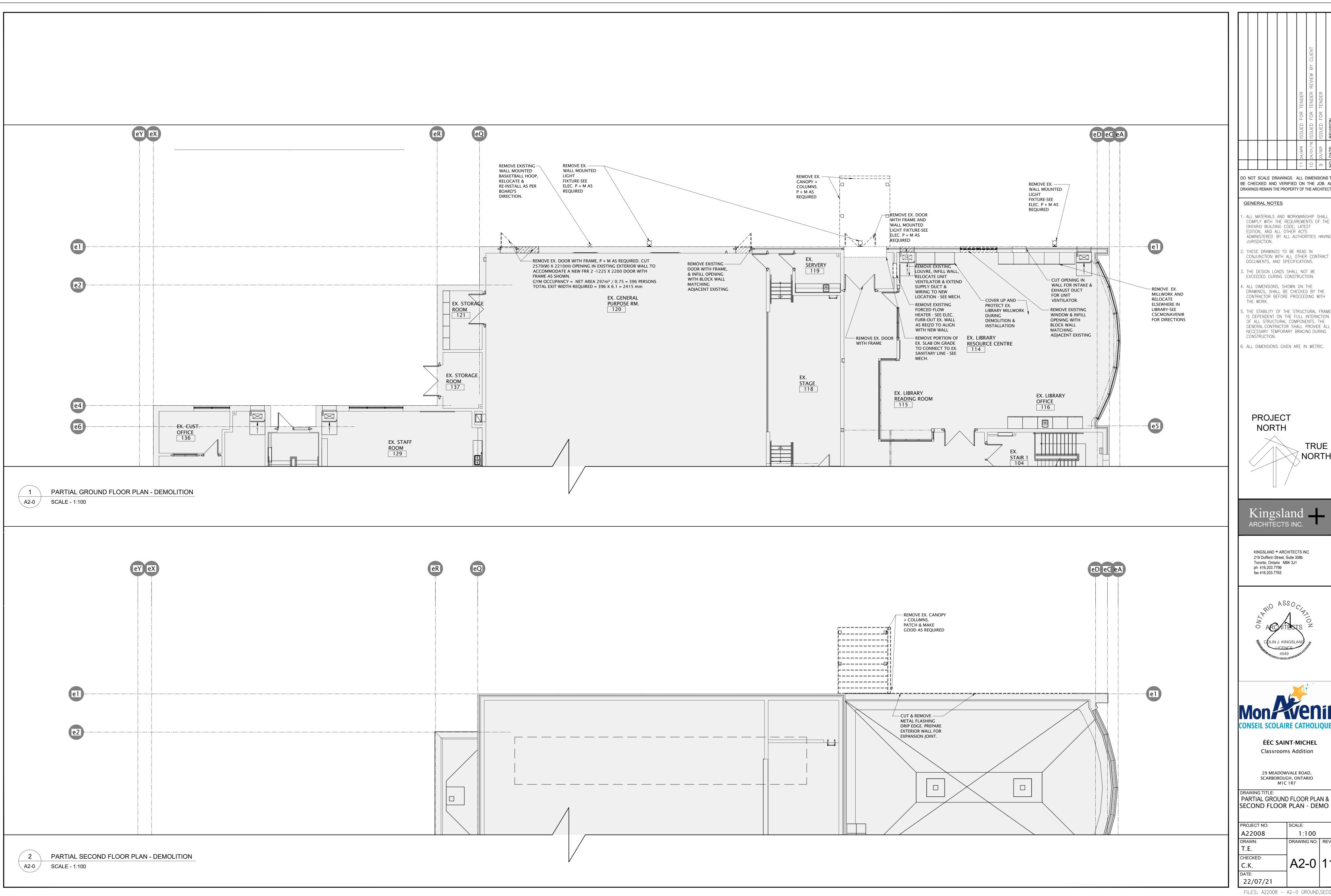
SCALE: 1:300

REV.

A 1-1

2

FILES: A22008 - A1-1 HOARDING PLAN.DW



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ÉÉC SAINT-MICHEL

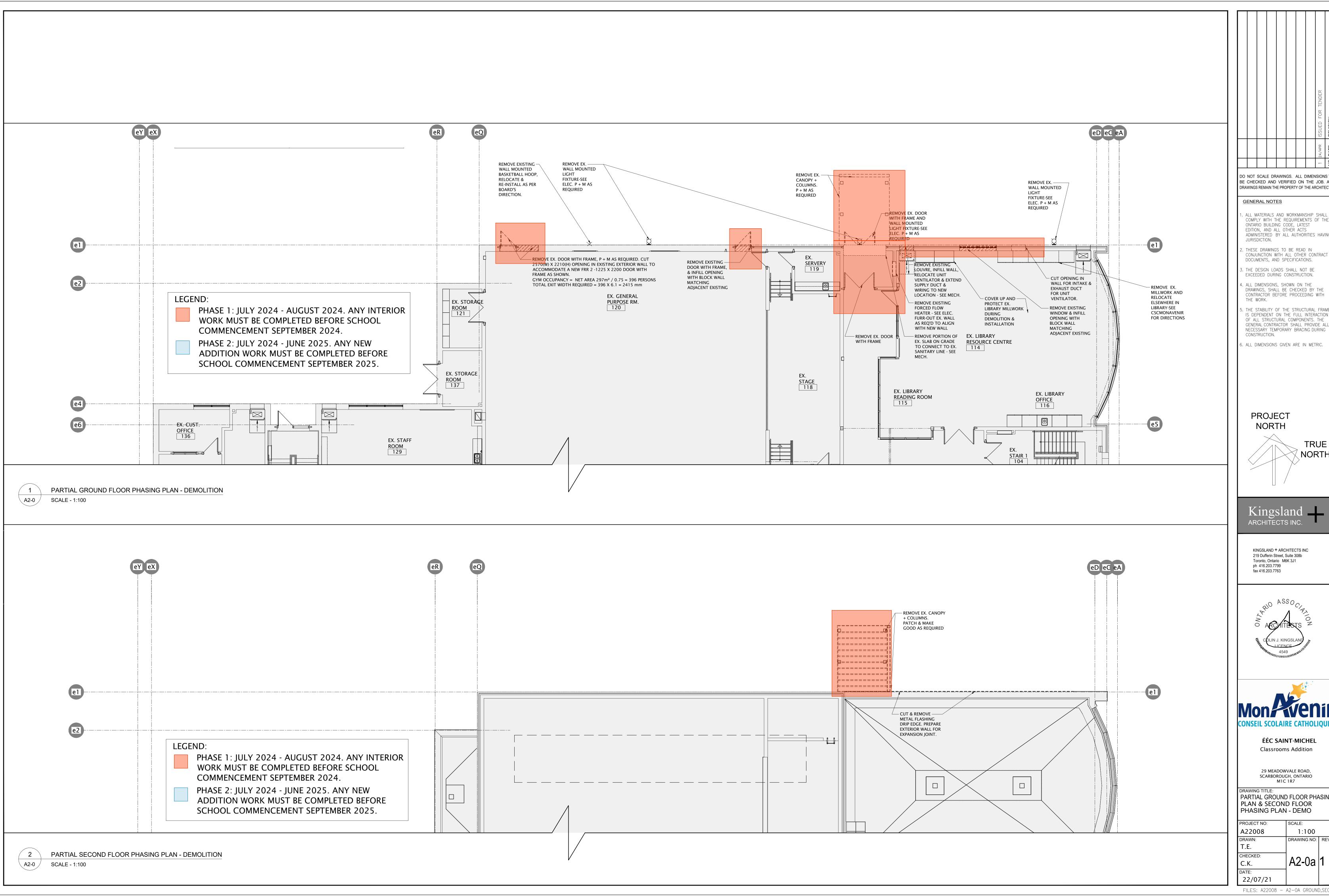
29 MEADOWVALE ROAD,

SCARBOROUGH, ONTARIO M1C 1R7

PARTIAL GROUND FLOOR PLAN & SECOND FLOOR PLAN - DEMO

PROJECT NO:	SCALE:		2024
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22/07/21			<u> </u>

FILES: A22008 - A2-0 GROUND, SECOND DI



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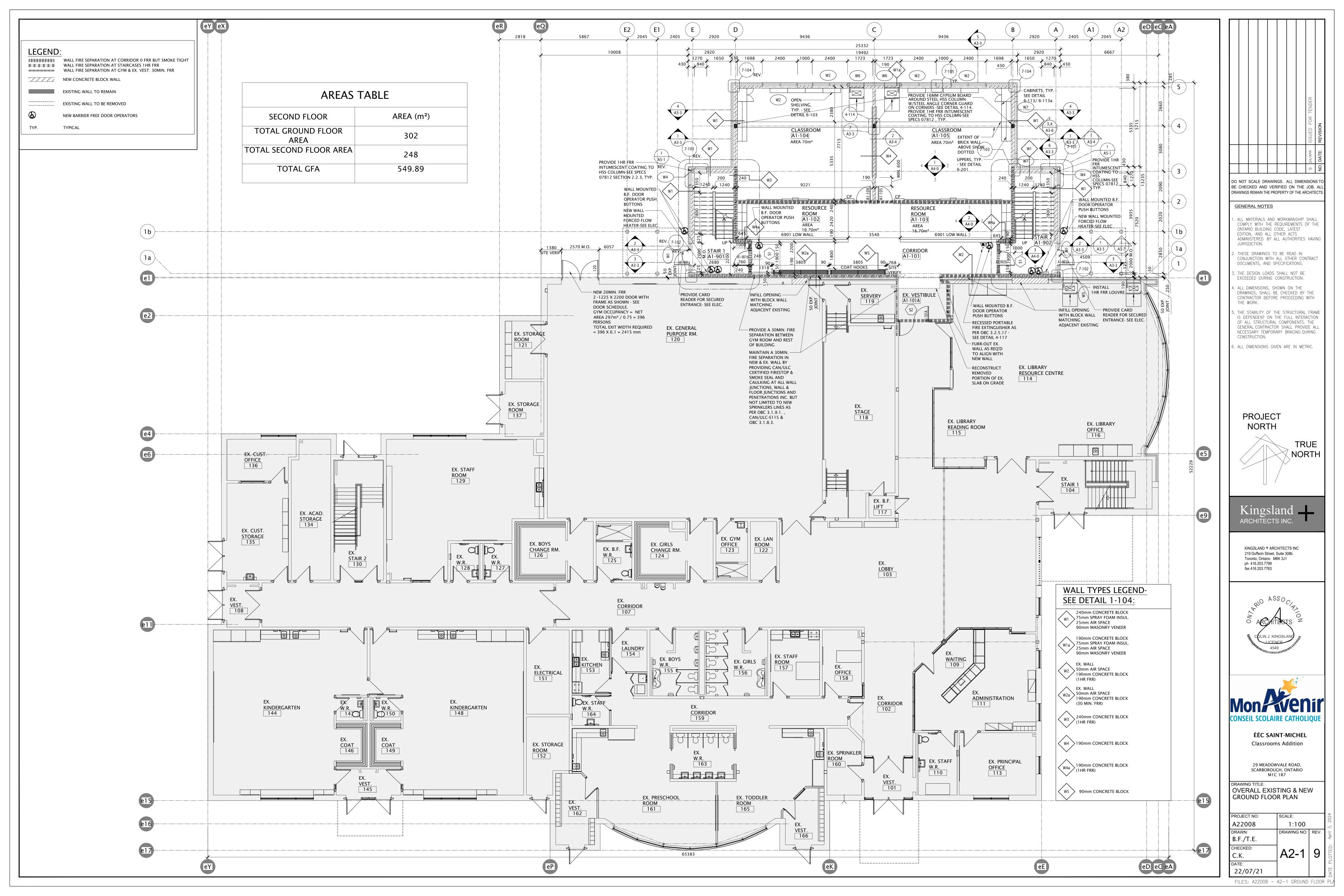
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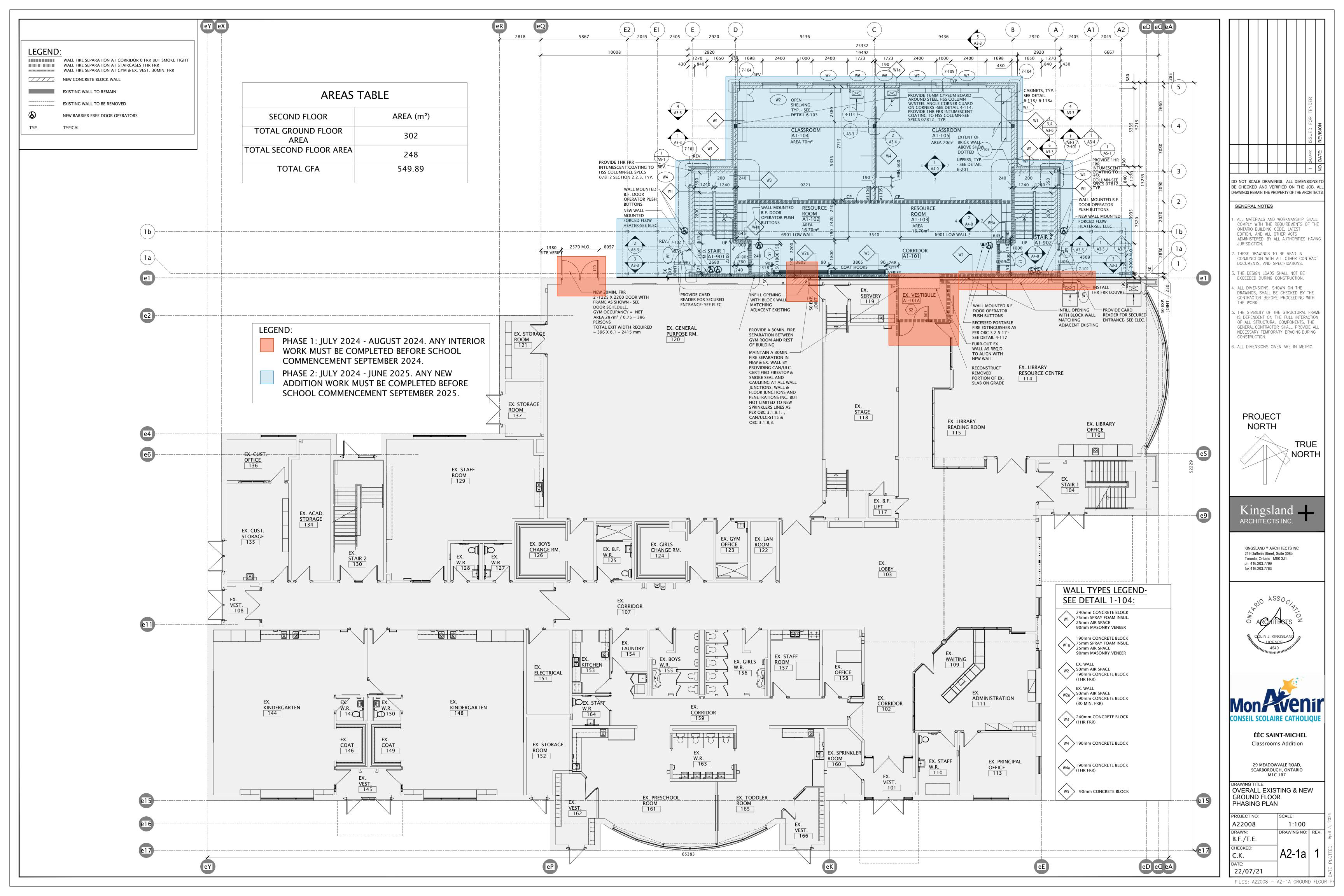
SCARBOROUGH, ONTARIO

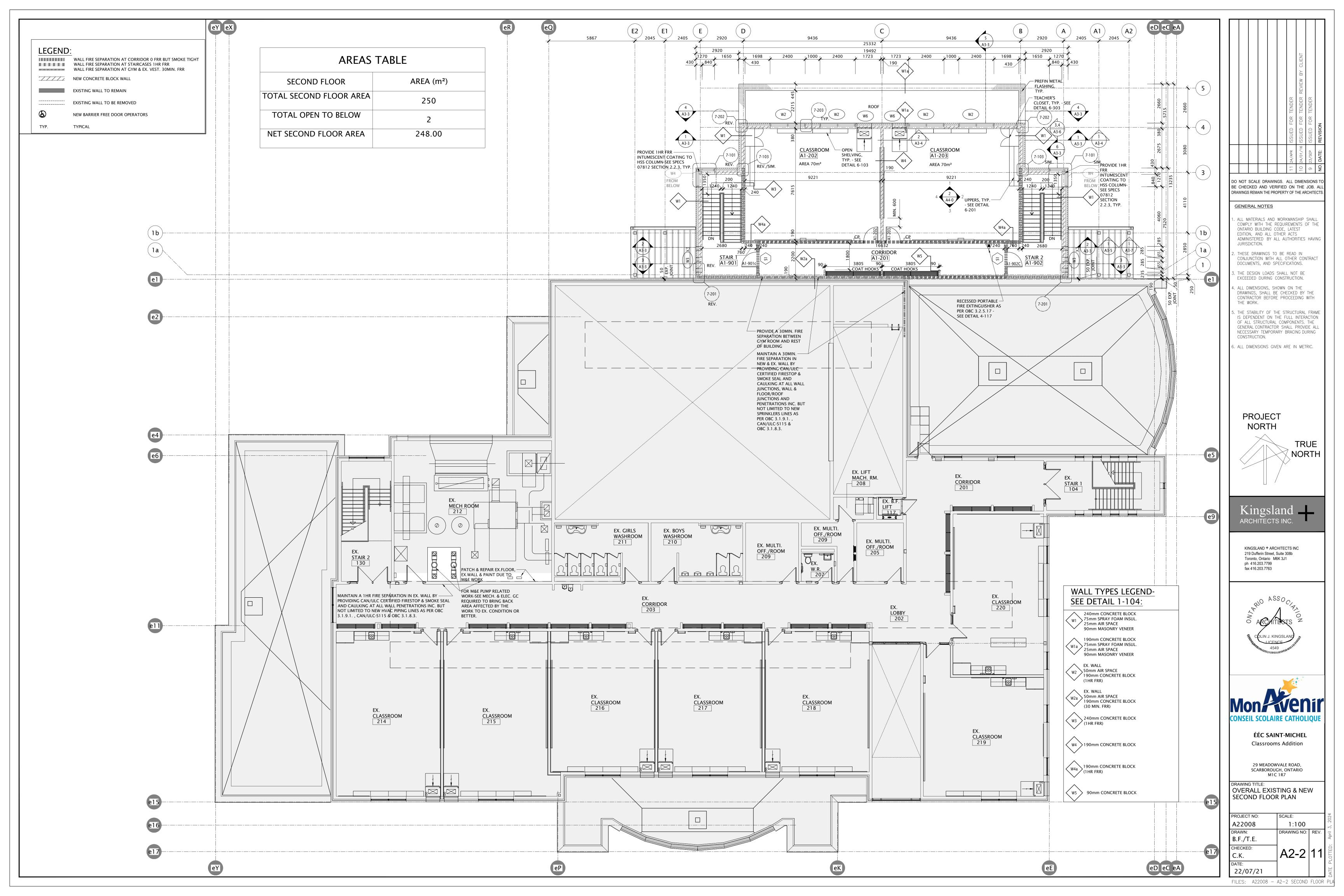
PARTIAL GROUND FLOOR PHASING PLAN & SECOND FLOOR

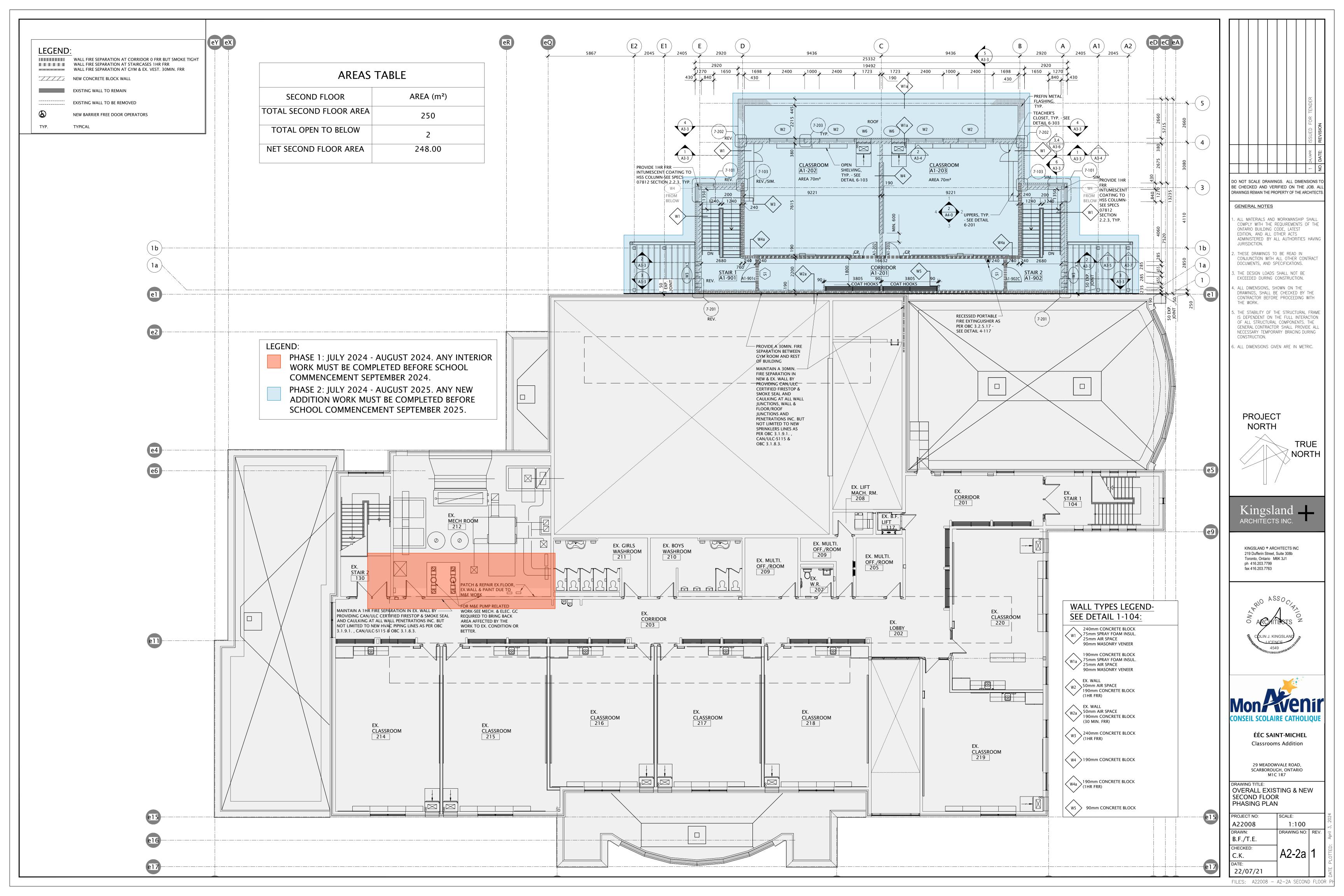
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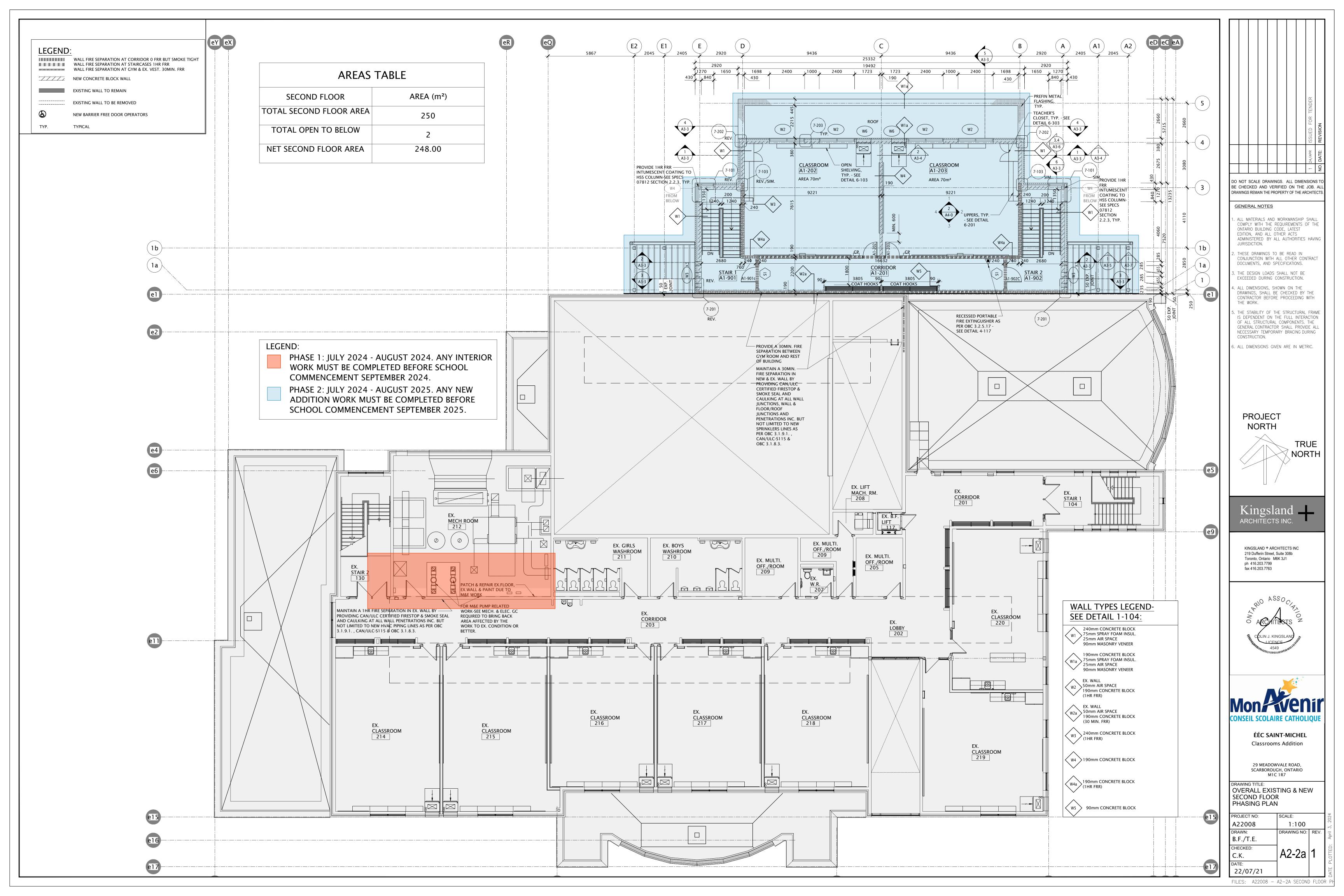
FILES: A22008 - A2-0A GROUND, SECOND [

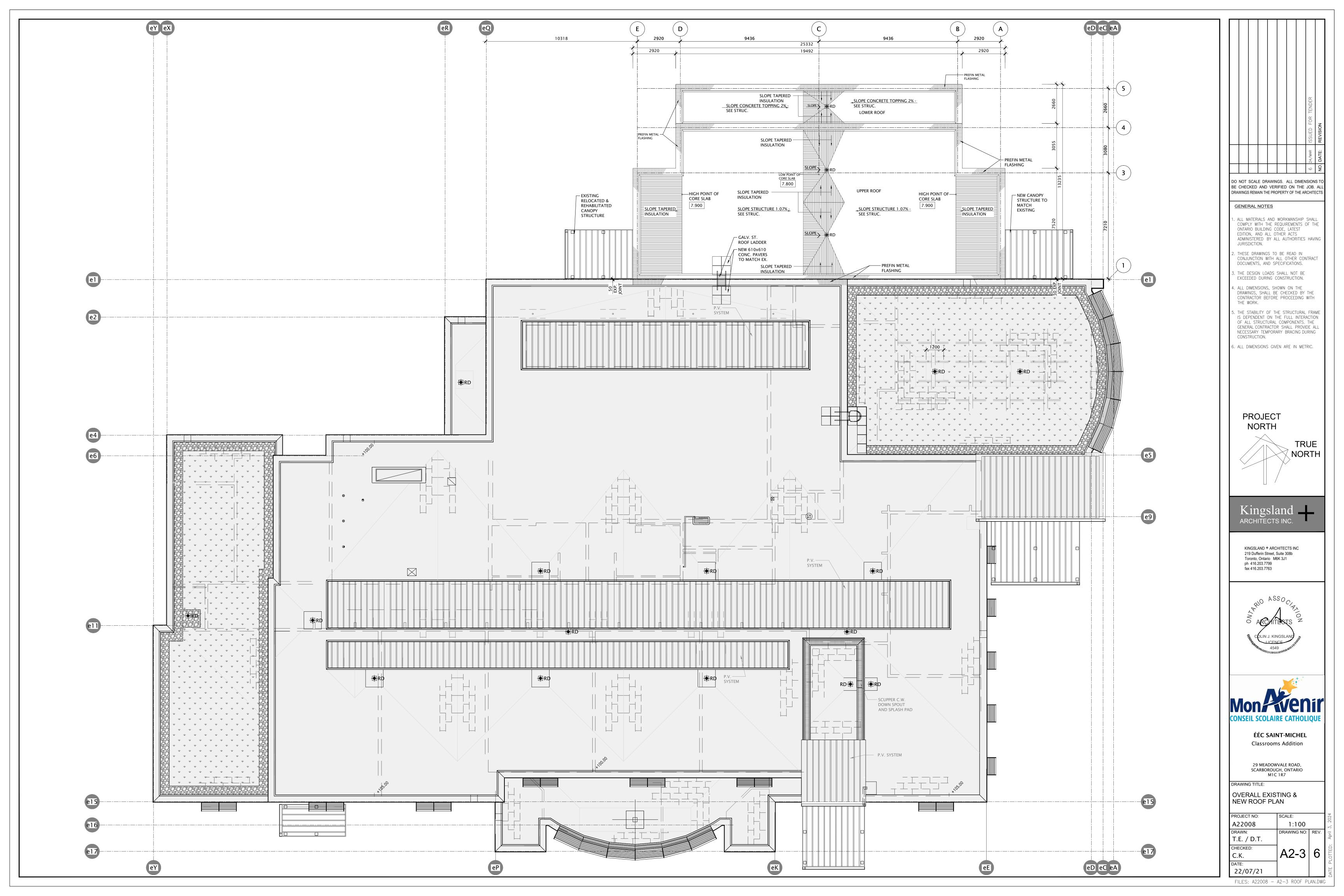


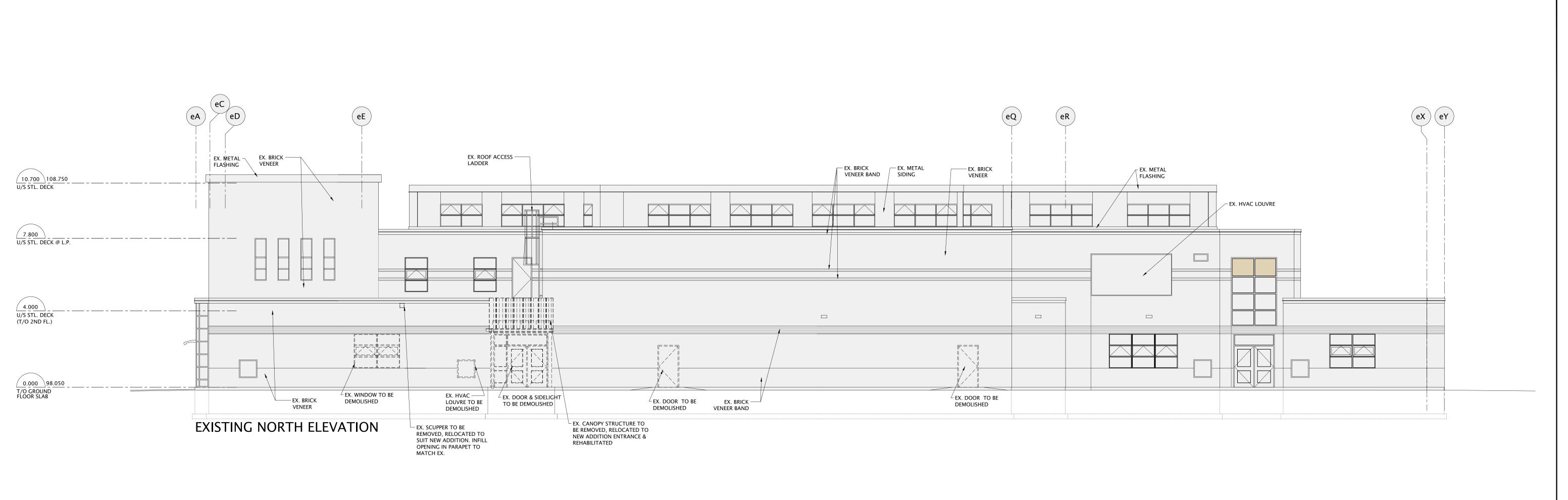


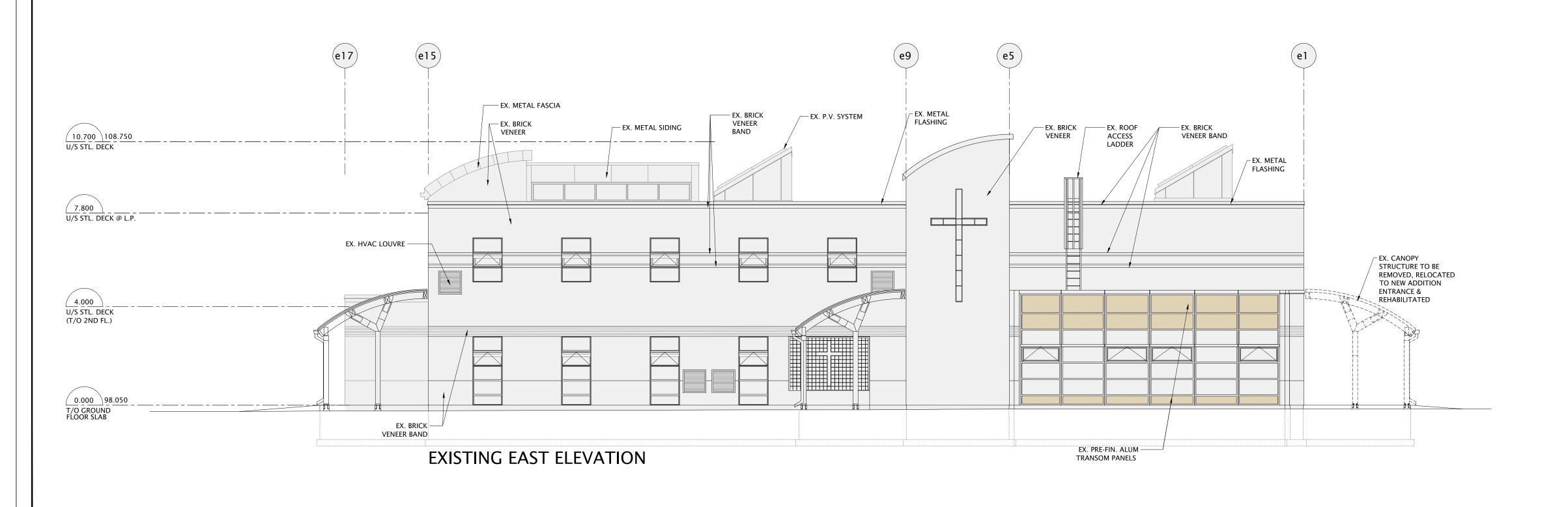


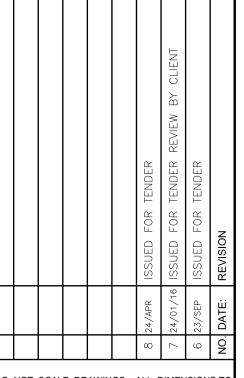












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ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD,

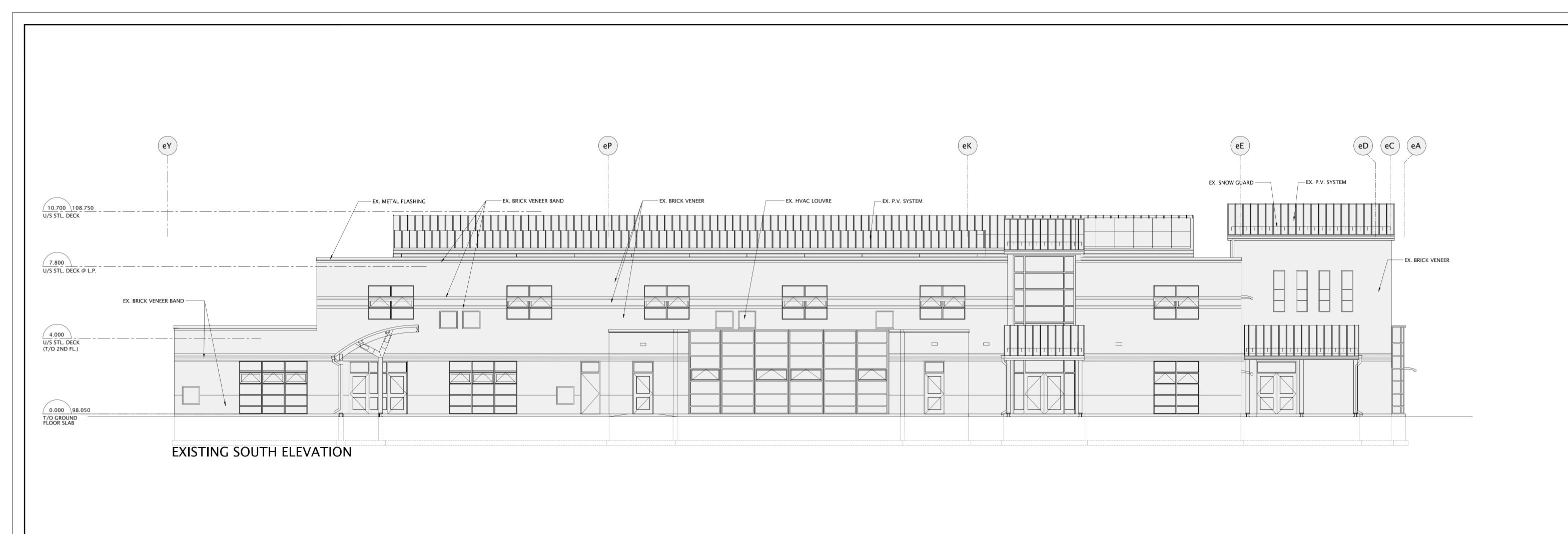
SCARBOROUGH, ONTARIO M1C 1R7

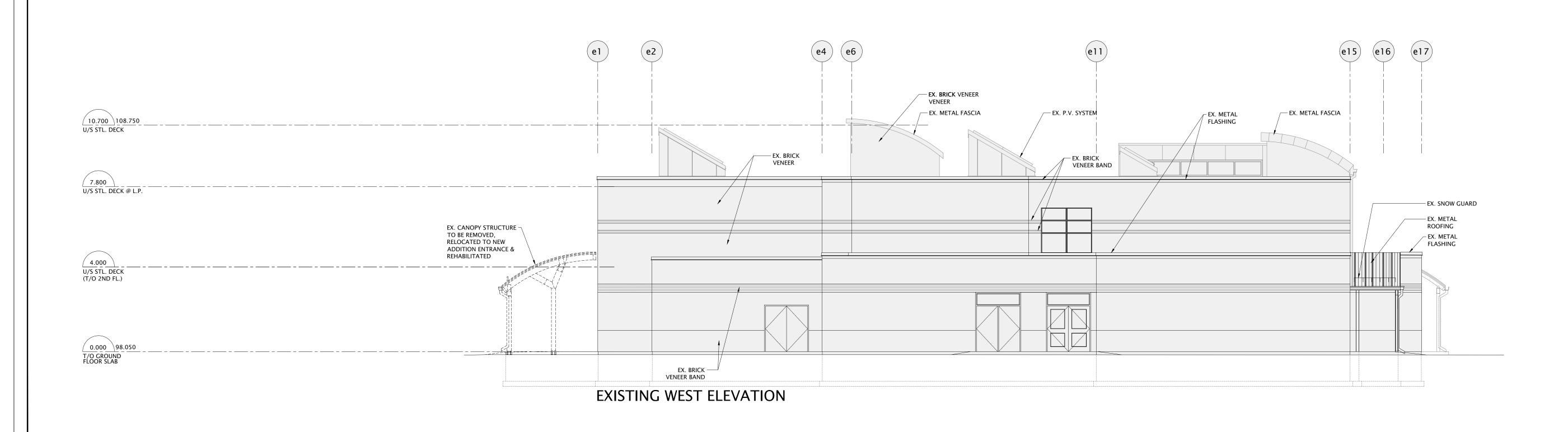
DRAWING TITLE

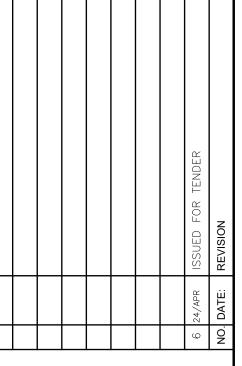
NORTH & EAST EXISTING BUILDING ELEVATIONS & DEMOLITION

DEMOLITION
PROJECT NO: SCALE:
A22008 1:300
DRAWN: DRAWING NO: T.F./ S.I.

DRAWN: T.E/ S.J. DRAWING NO: REV. CHECKED: C.K. A3-0 8







DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

THE WORK.

1. ALL MATERIALS AND WORKMANSHIP SHALL
COMPLY WITH THE REQUIREMENTS OF THE
ONTARIO BUILDING CODE, LATEST
EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING
JURISDICTION.

- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.



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29 MEADOWVALE ROAD,

SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TIT

SOUTH & WEST EXISTING BUILDING ELEVATIONS & DEMOLITION

DEMOLITION

PROJECT NO: SCALE:

A22008 1:300

DRAWN: DRAWING NO:

T.F./ S.I.

DRAWN:
T.E/ S.J.

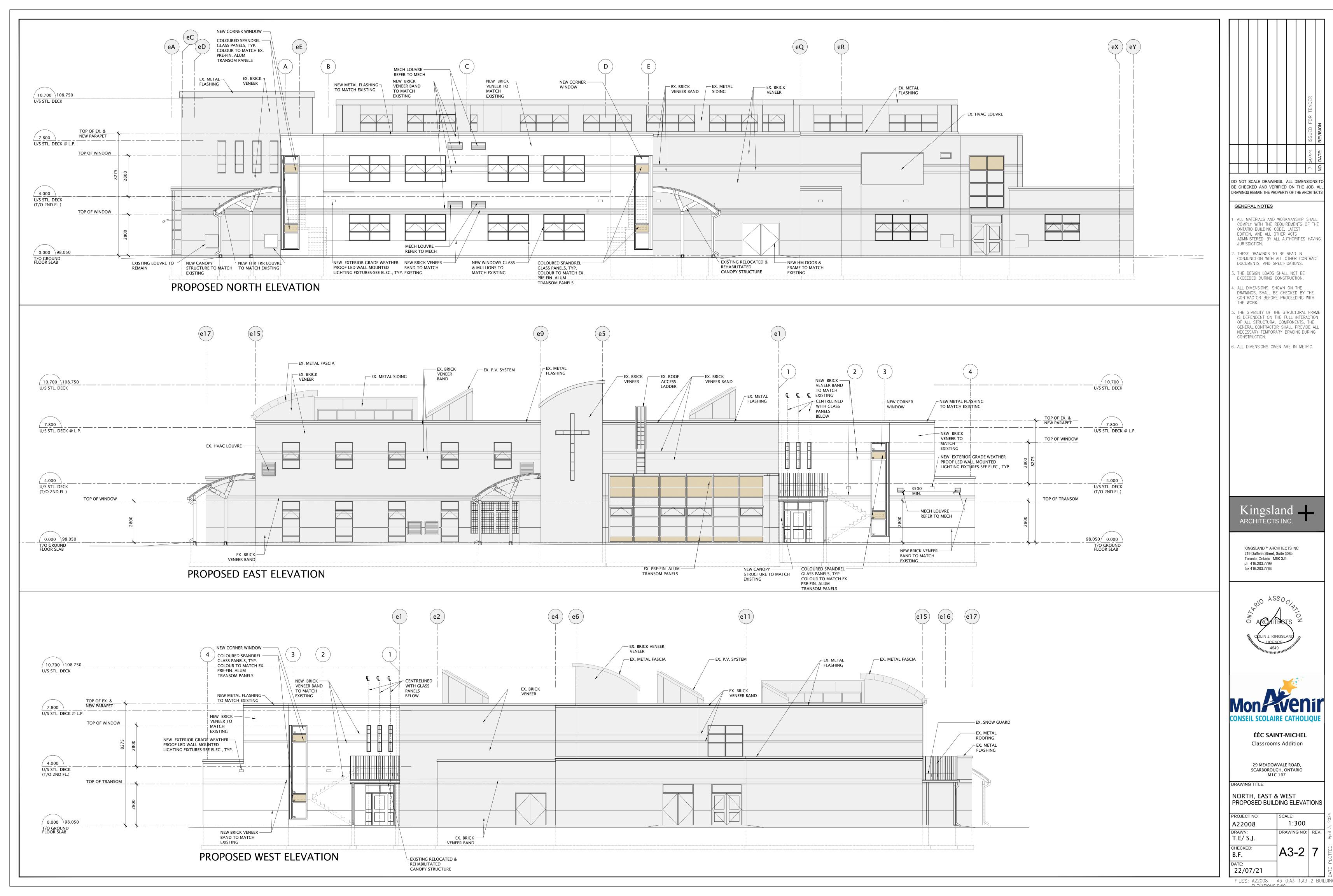
CHECKED:
B.F.

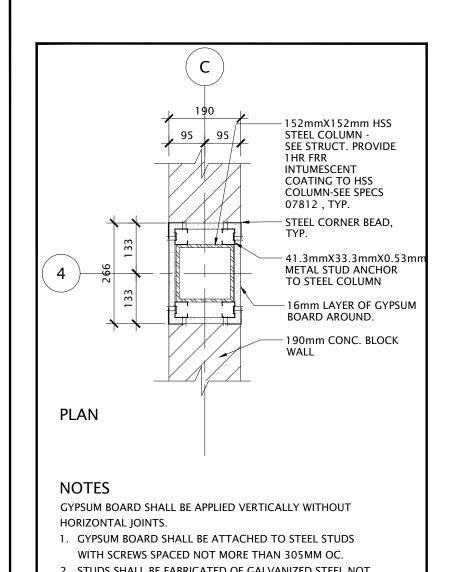
A22008

DRAWING NO:
REV.

A3-1

6





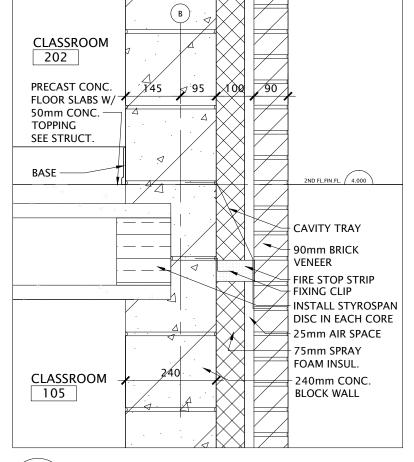
STUDS SHALL BE FABRICATED OF GALVANIZED STEEL NOT LESS THAN 0.53MM THICK AND NOT LESS THAN 41.3MM

WIDE WITH LEGS NOT LESS THAN 33.3MM LONG AND SHALL BE 12.7MM LESS THAN THE ASSEMBLY HEIGHT. . CORNER BEADS SHALL:

3.1. BE FABRICATED OF GALVANIZED STEEL THAT IS NOT LESS THAN 0.41 MM THICK, 3.2. HAVE LEGS NOT LESS THAN 31MM LONG,

3.3. BE ATTACHED TO THE GYPSUM BOARD OR STUD WITH 25.4MM SCREWS SPACED NOT MORE THAN 305MM OC 3.4. HAVE THE ATTACHING FASTENERS PENETRATE THE STEEL STUD MEMBER.

DETAIL 4-114: GYPSUM BOARD CLADDING @ 1HR FRR STEEL COLUMN \ A3-3 SCALE: 1:10



DETAIL 7-502: 1HR FRR @ SECOND FLOOR \ A3-3 / SCALE: 1:10

PROPOSED ASSEMBLIES COMPLYING WITH OBC SB-10 TABLE SB 5.5-7-2017 ASSEMBLY INSULATION OPAQUE ELEMENTS MAX. U-VALUE MIN.
RSI-VALUE ROOF U-0.087 12.5 WALLS, ABOVE U-0.261 3.5 ci GRADE (CONCRETE C-0.284 3.5 ci FOUNDATION (CONCRETE U-0.215 4.1 ci CORE SLAB) SLAB ON GRADE FLOORS 2.6 FOR F-0.794 (UNHEATED) NOTE: ASSEMBLIES AIR & THERMAL BRIDGING BARRIERS TO BE CONSTRUCTED AS PER OBC SB-10 CHAPTER 2 SECTION 1.1.1.4 PROPOSED FENESTRATION COMPLYING WITH OBC SB-10 TABLE SB 5.5-7-2017
ASSEMBLY FENESTRATION MAX. MAX. MIN. U-VALUE SHGC VT/SHGC METAL FRAMING FIXED WINDOW METAL FRAMING U-2.04 0.45 1.10 OPERABLE WINDOW METAL FRAMING ENTRANCE DOOR NOTE: ASSEMBLIES AIR & THERMAL BRIDGING BARRIERS TO BE CONSTRUCTED AS PER OBC

SB-10 CHAPTER 2 SECTION 1.1.1.4

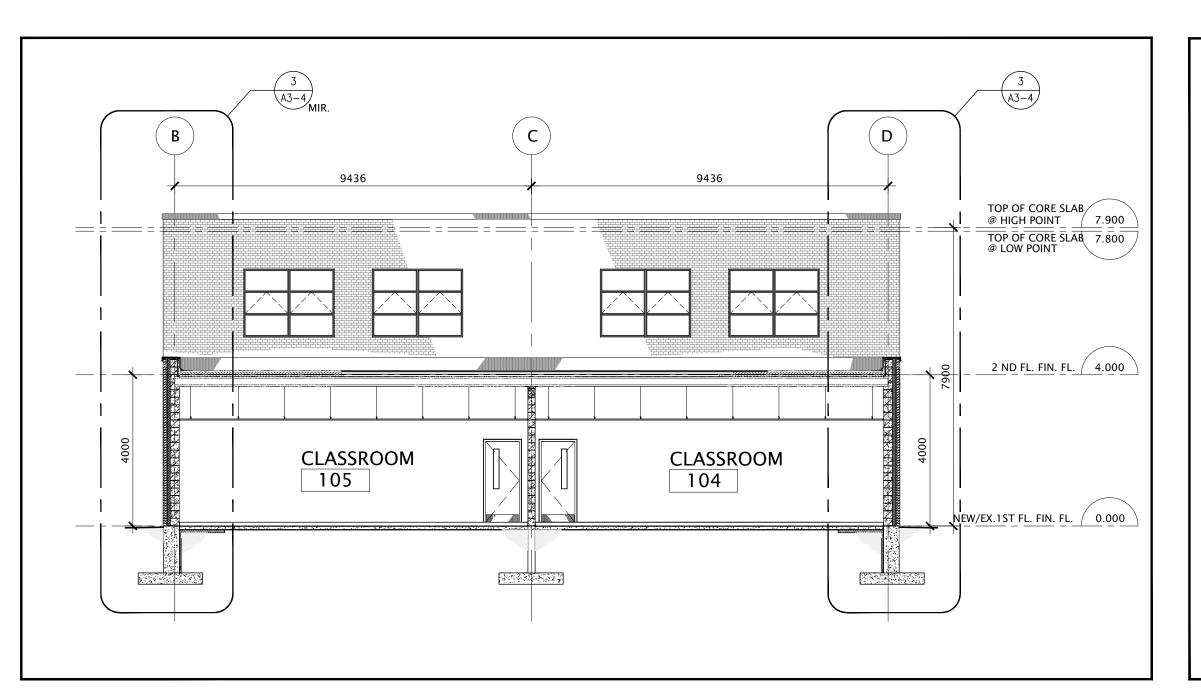
ALL STEEL STRUCTURAL MEMBERS TO BE PAINTED WITH 1HR INTUMESCENT PAINTING AS PER SPECS SECTION 07812

GENERAL NOTES:

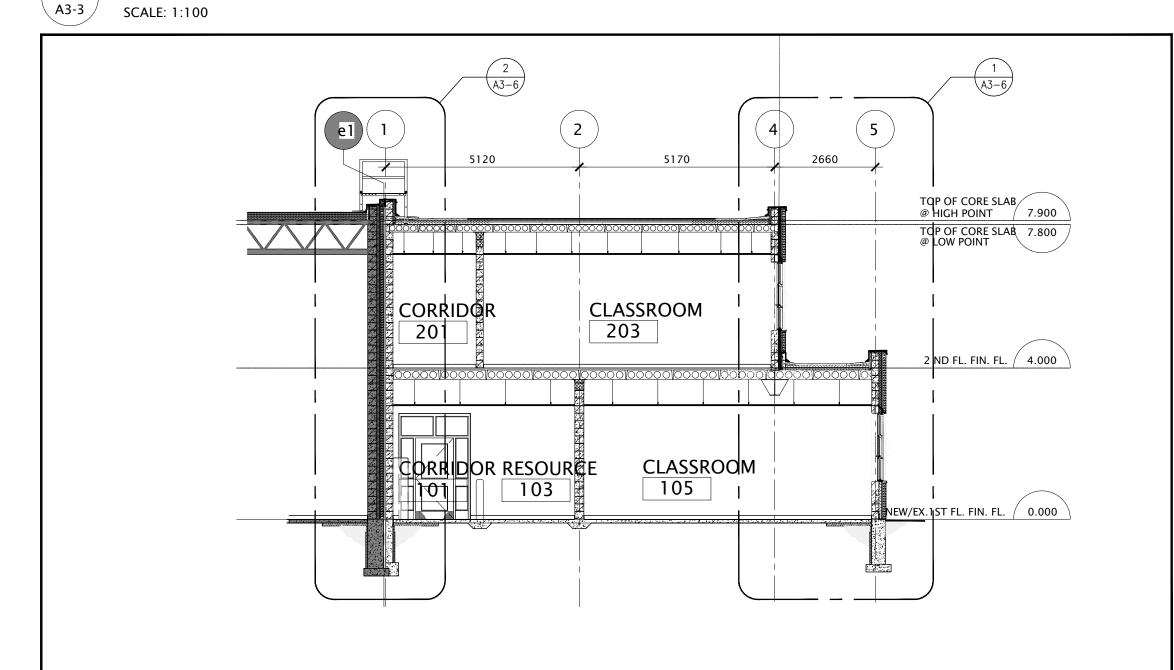
SCALE: 1:10

、A3-3 /

ASSEMBLIES ENERGY EFFICIENCY VALUES

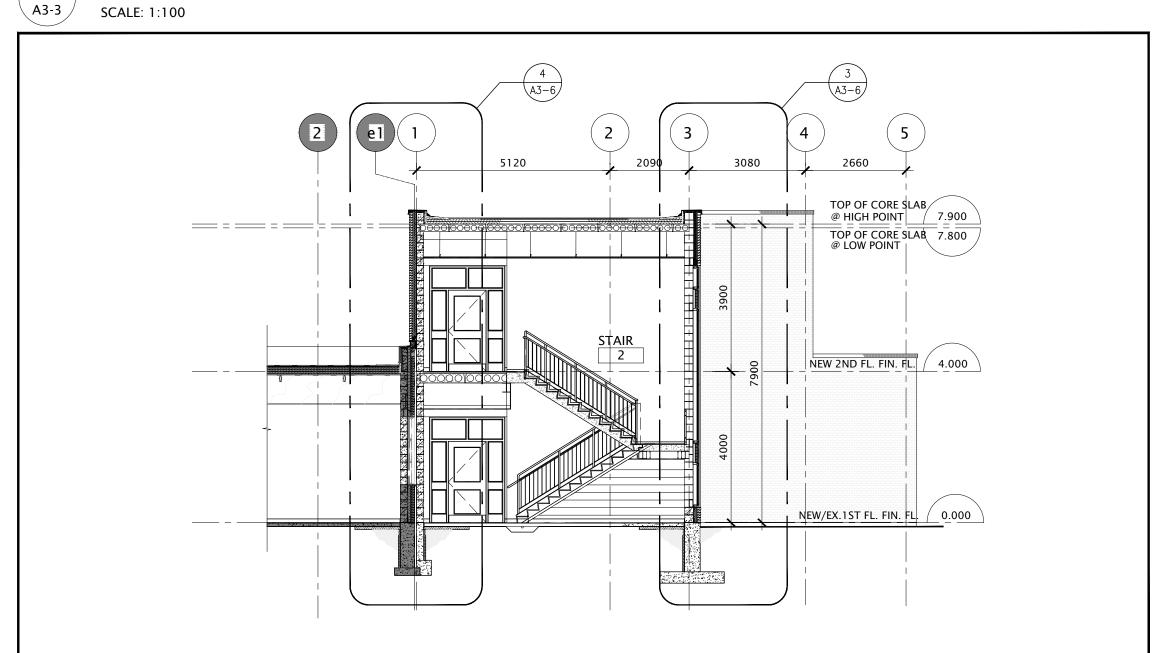


BUILDING SECTION



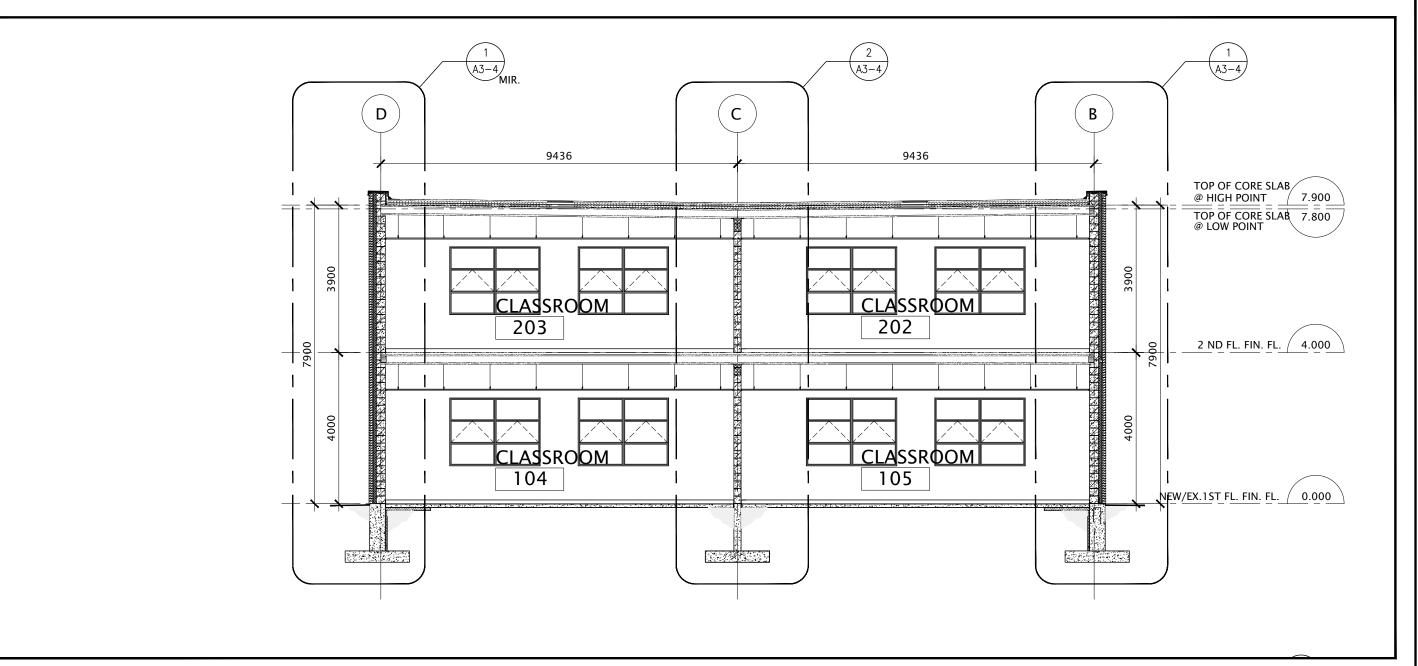
BUILDING SECTION

SCALE: 1:100



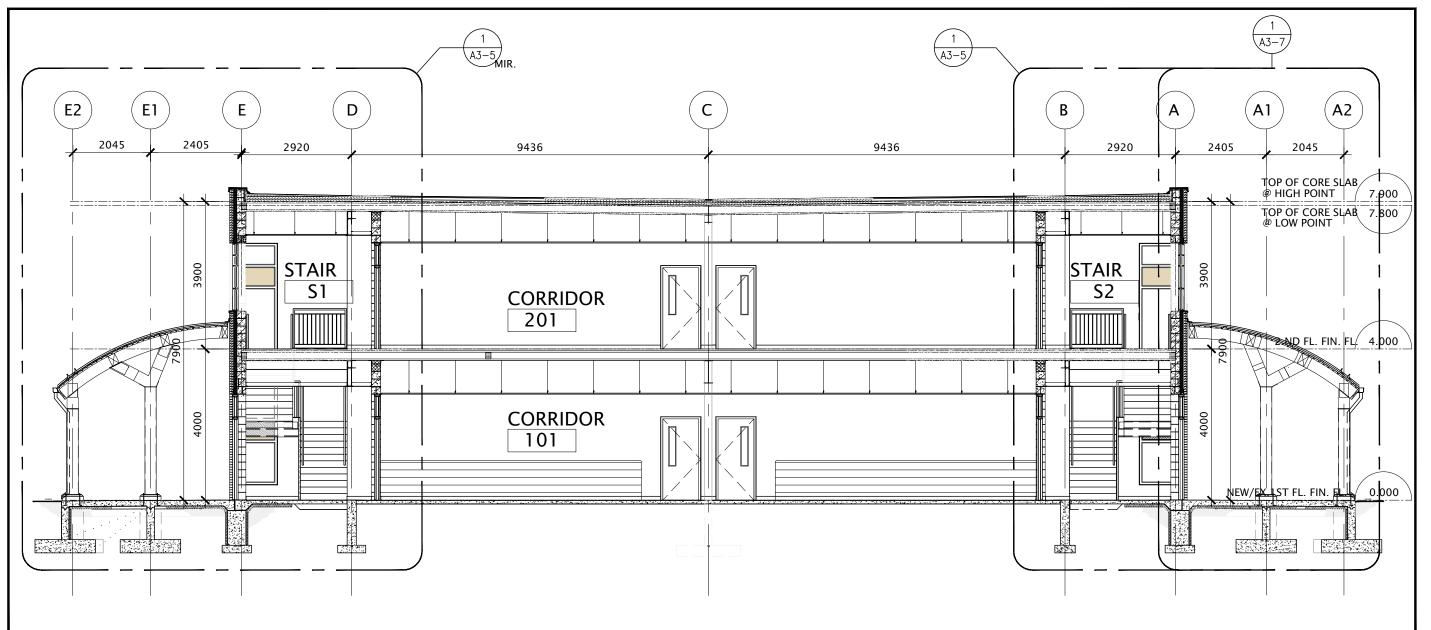
6 BUILDING SECTION A3-3

SCALE: 1:100



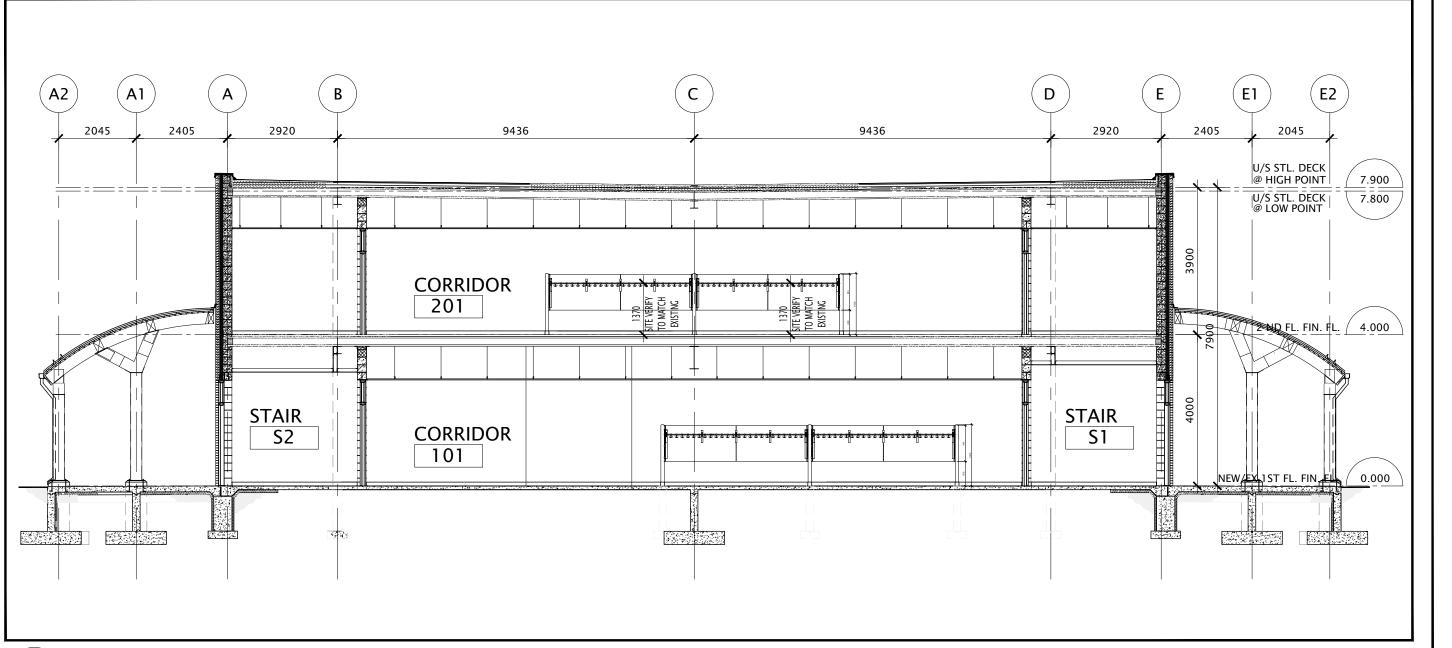
BUILDING SECTION

A3-3 SCALE: 1:100



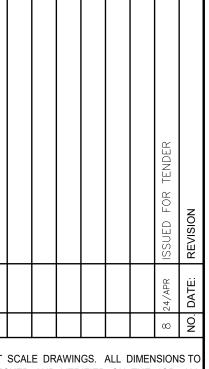
2 **BUILDING SECTION**

A3-3 SCALE: 1:100



BUILDING SECTION

A3-3 SCALE: 1:100



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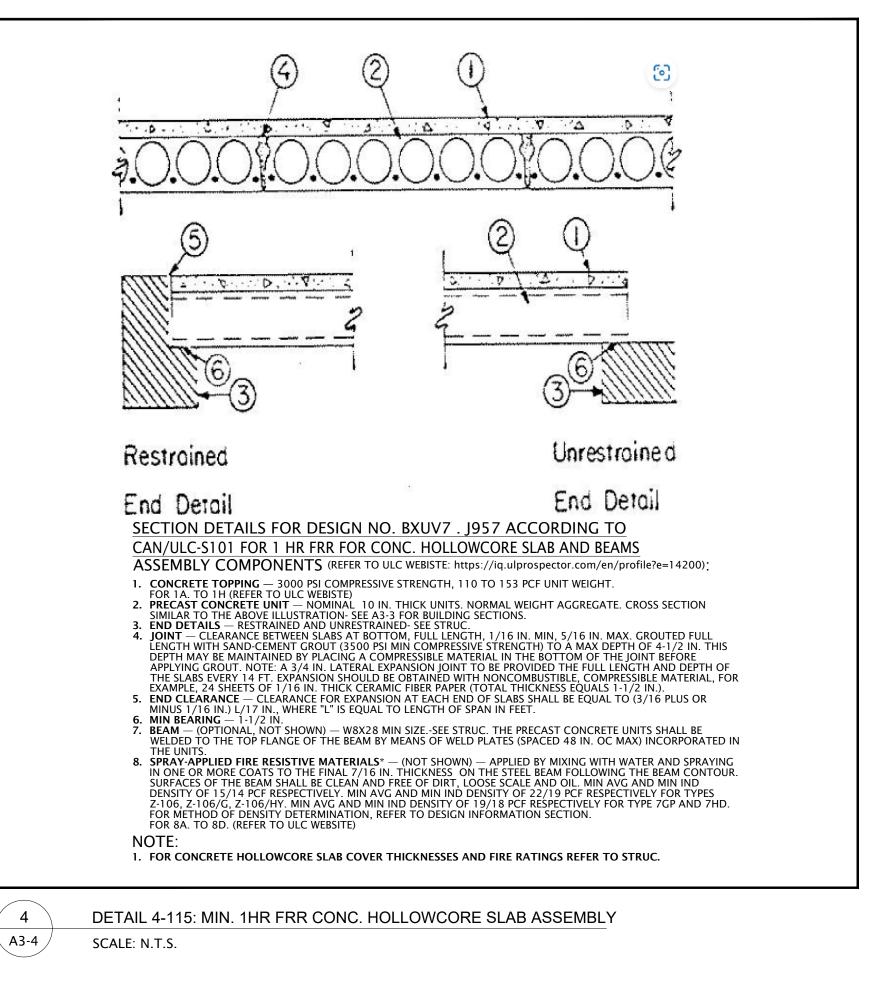
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

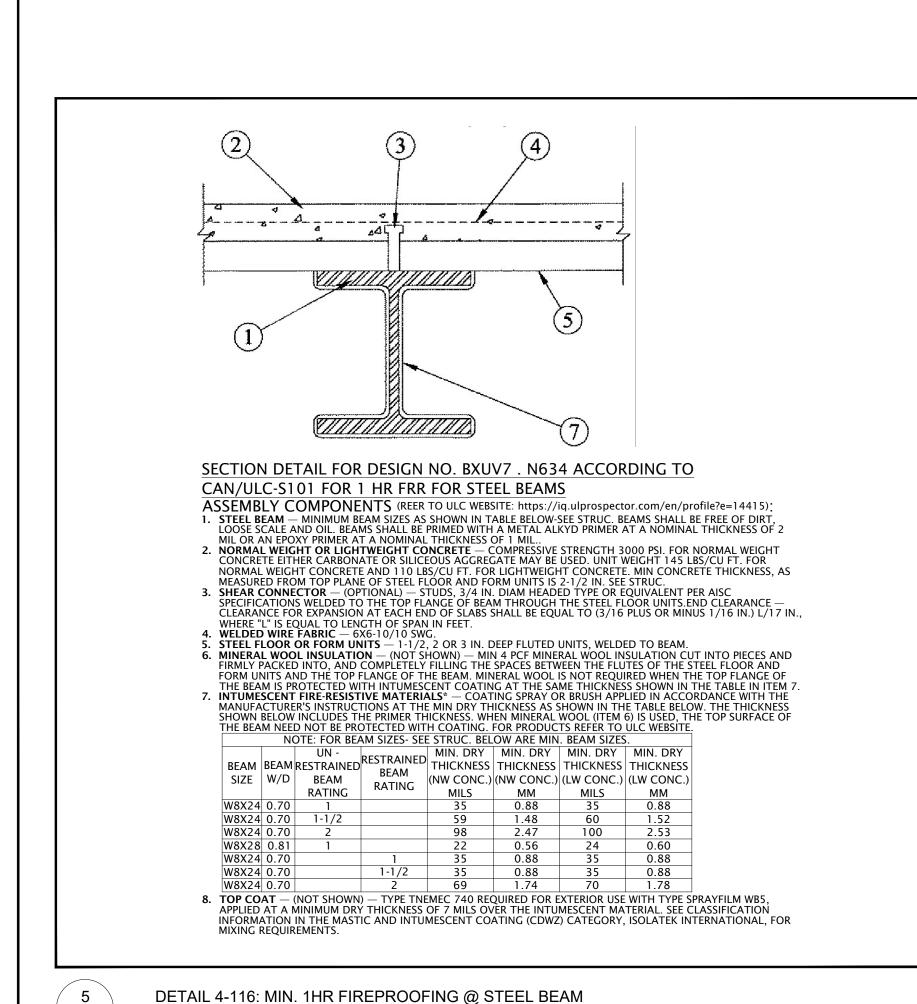
M1C 1R7

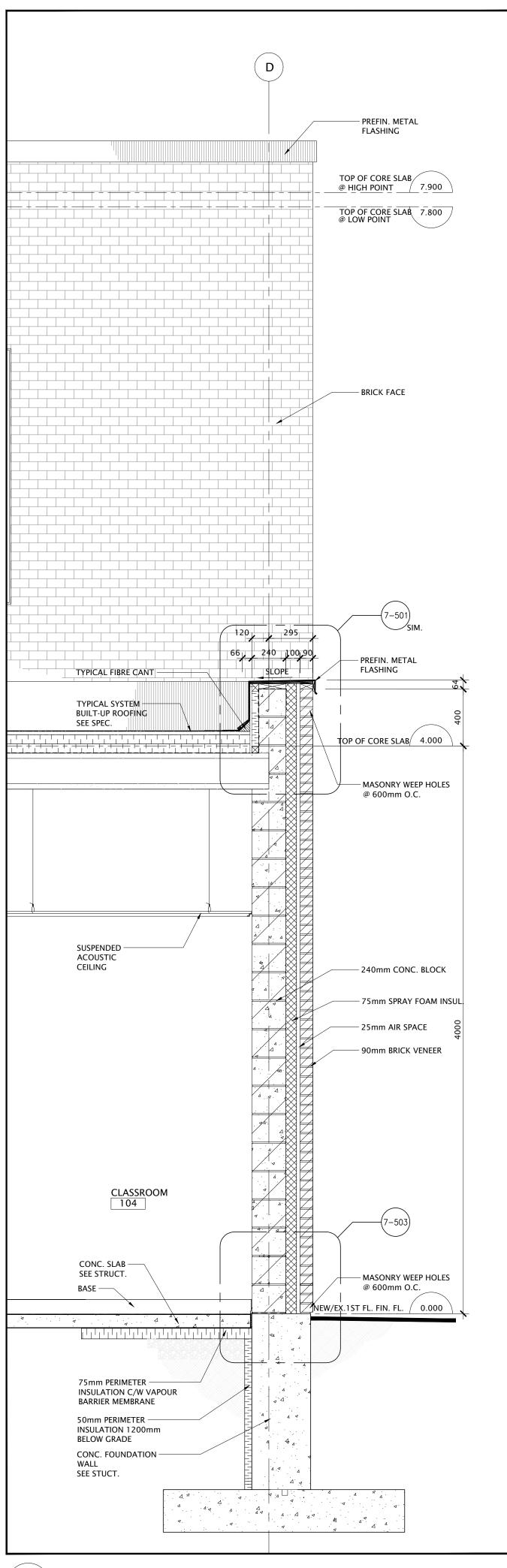
BUILDING SECTIONS & DETAILS

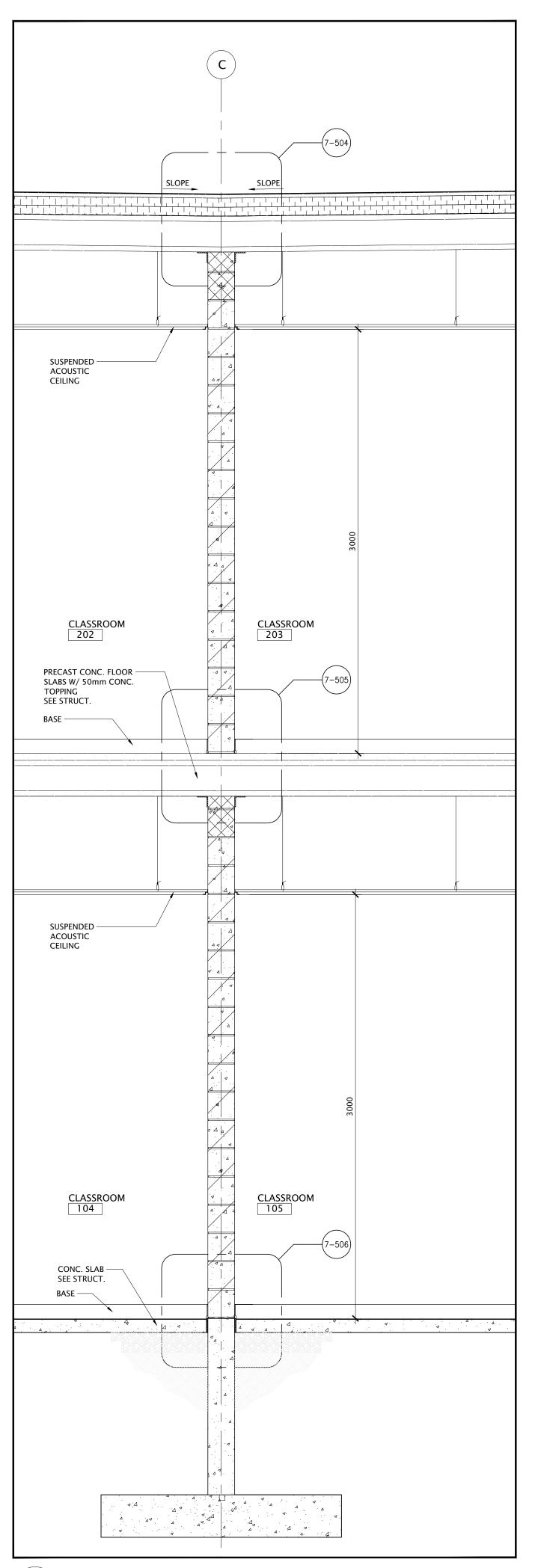
PROJECT NO:	SCALE:		202	
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DRAWN:	DRAWING NO:	REV.	April	
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DATE:				
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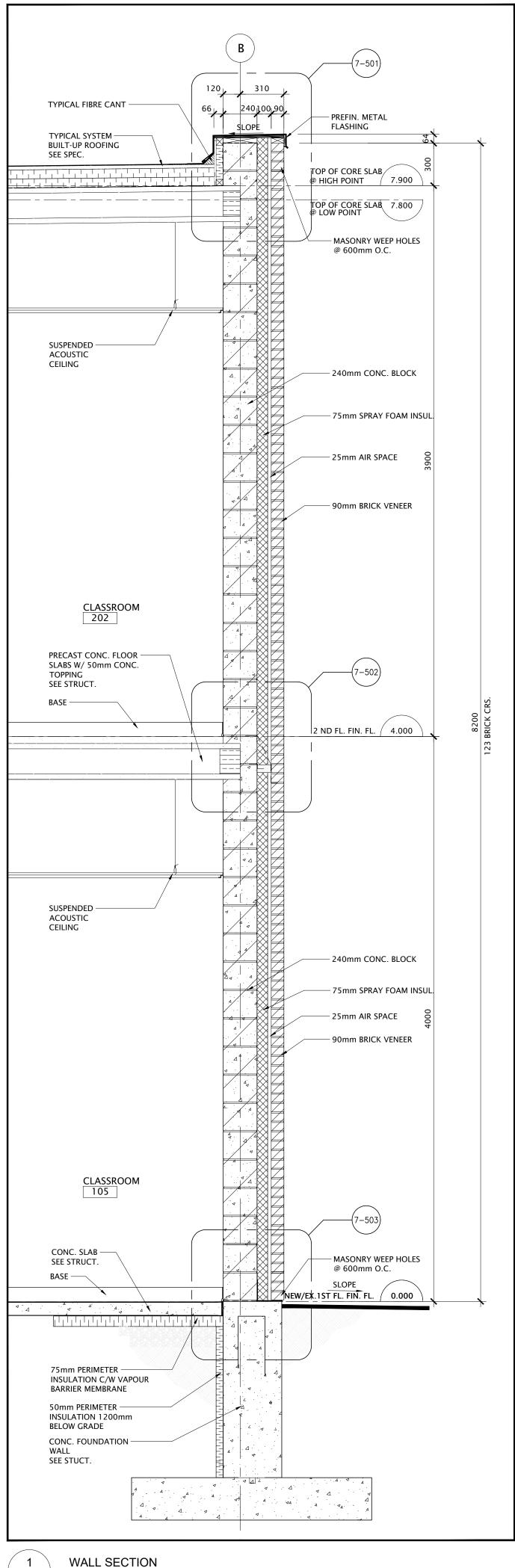
JULY 2022 FILES: A22008 - A3-3 BUILDING SECTION.D

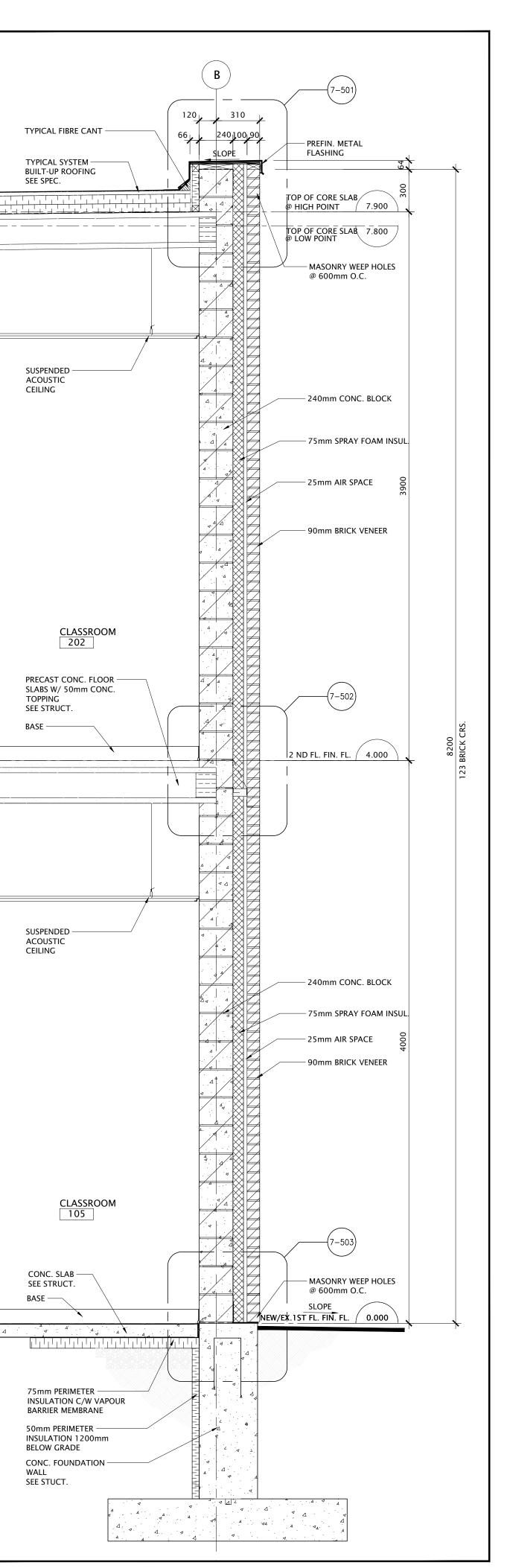


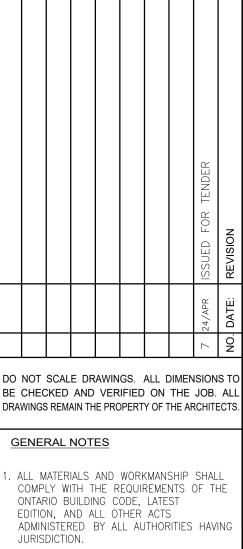












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ARCHITECTS INC.





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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: **WALL SECTIONS & DETAILS**

PROJECT NO: SCALE: A22008 1:20 DRAWN: DRAWING NO: REV D.T. CHECKED: A3-4| B.F. August 2022

FILES: A22008 - A3-4 WALL SECTION.DWG

WALL SECTION A3-4 /

SCALE: 1:20

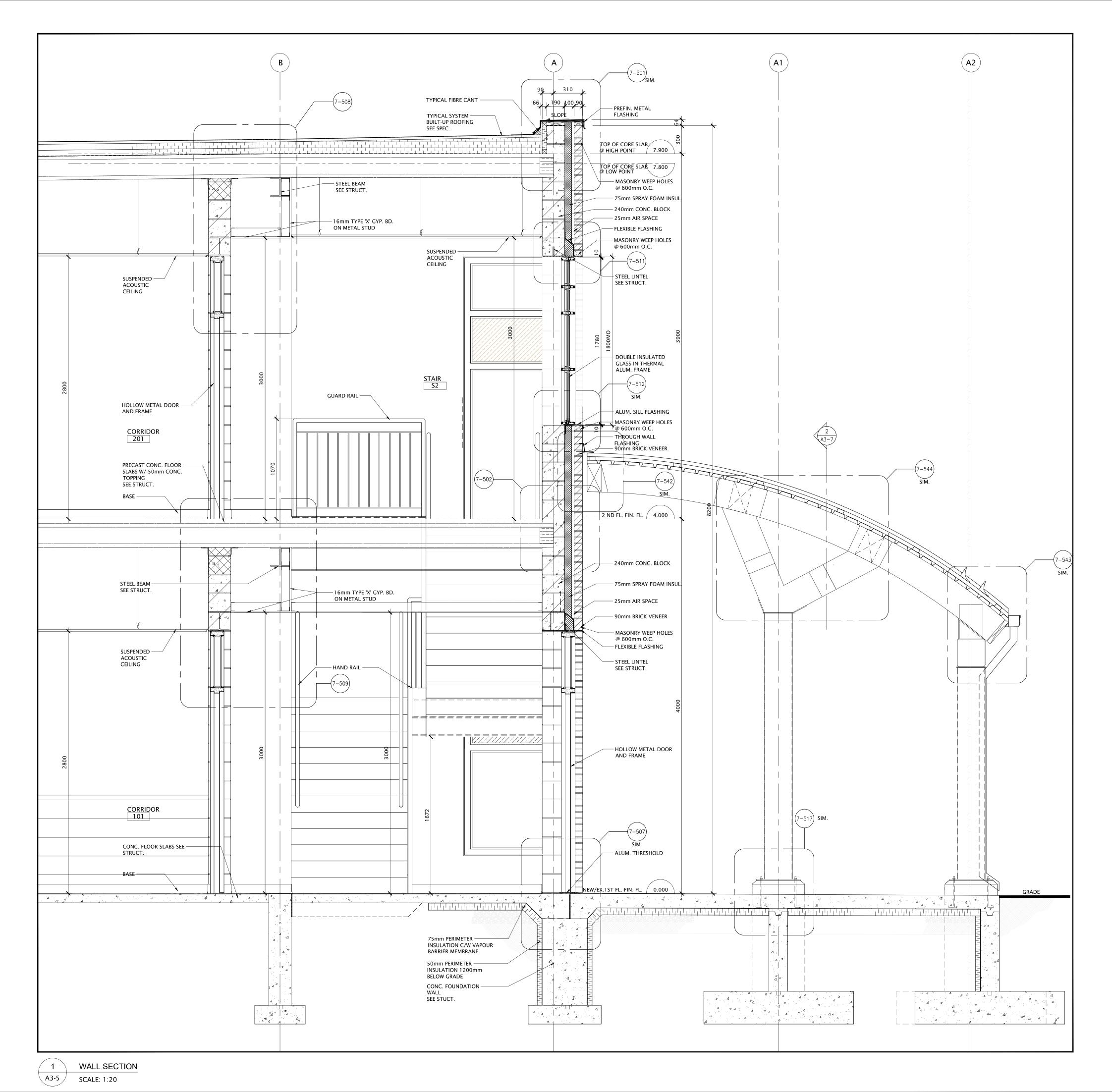
A3-4

SCALE: 1:20

WALL SECTION

A3-4 SCALE: 1:20

A3-4 SCALE: N.T.S.



24/APR ISSUED FOR TENDER
O. DATE: REVISION

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

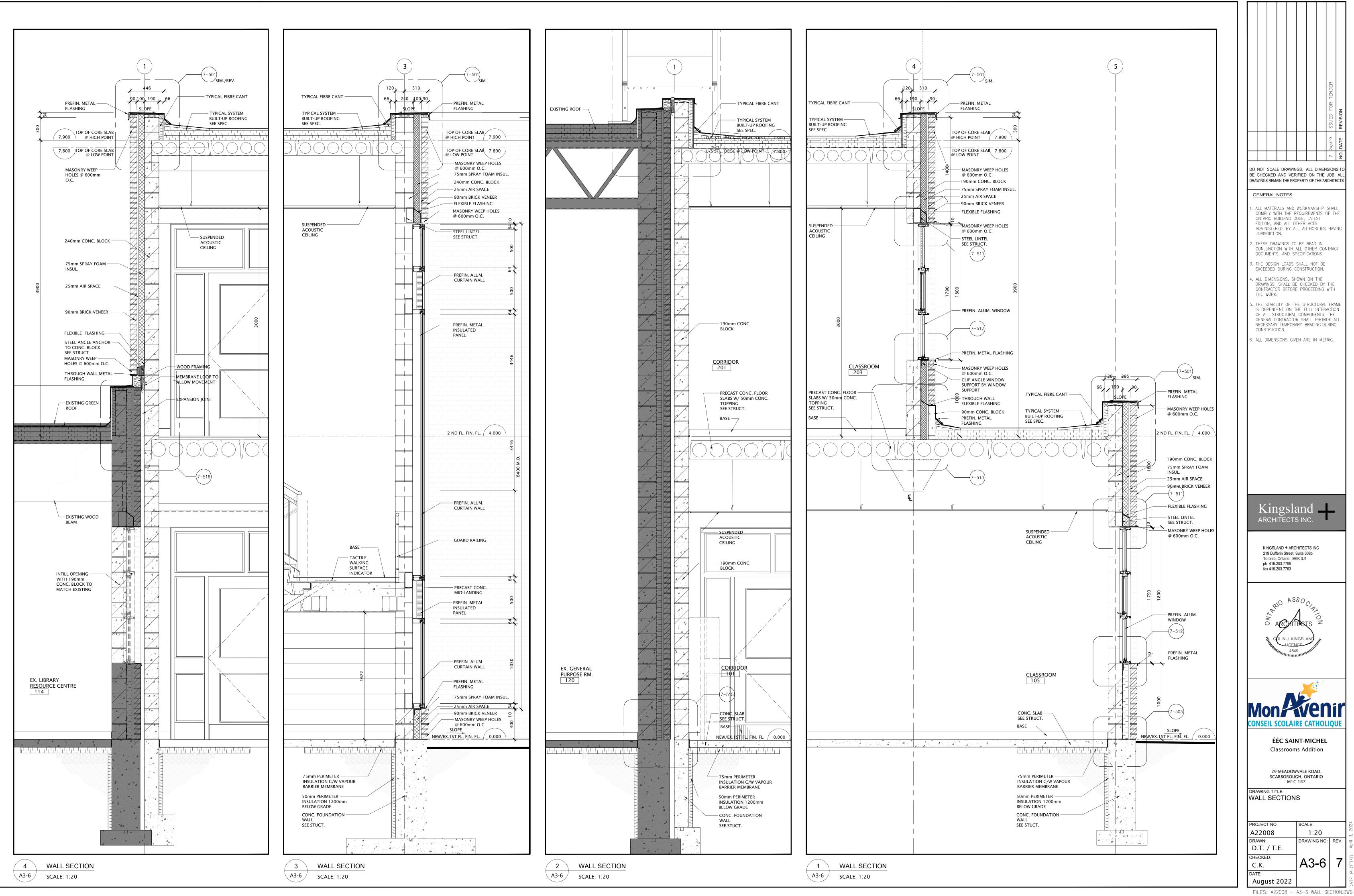
M1C 1R7

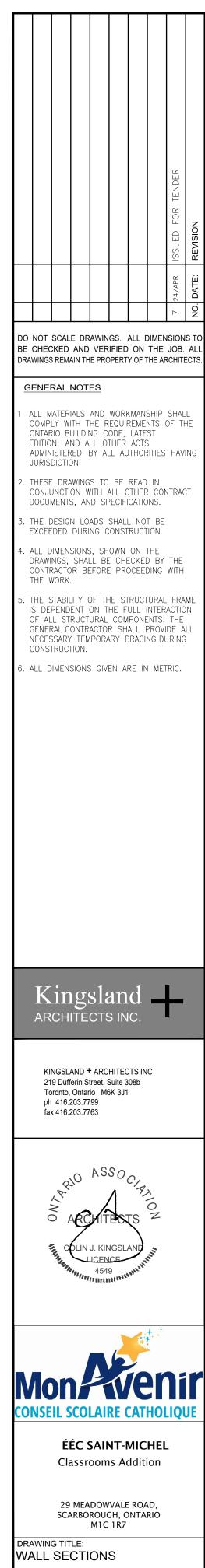
DRAWING TITLE:

WALL SECTIONS

PROJECT NO:	SCALE:		2024
A22008	1:20		7
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August 2022			Ļ

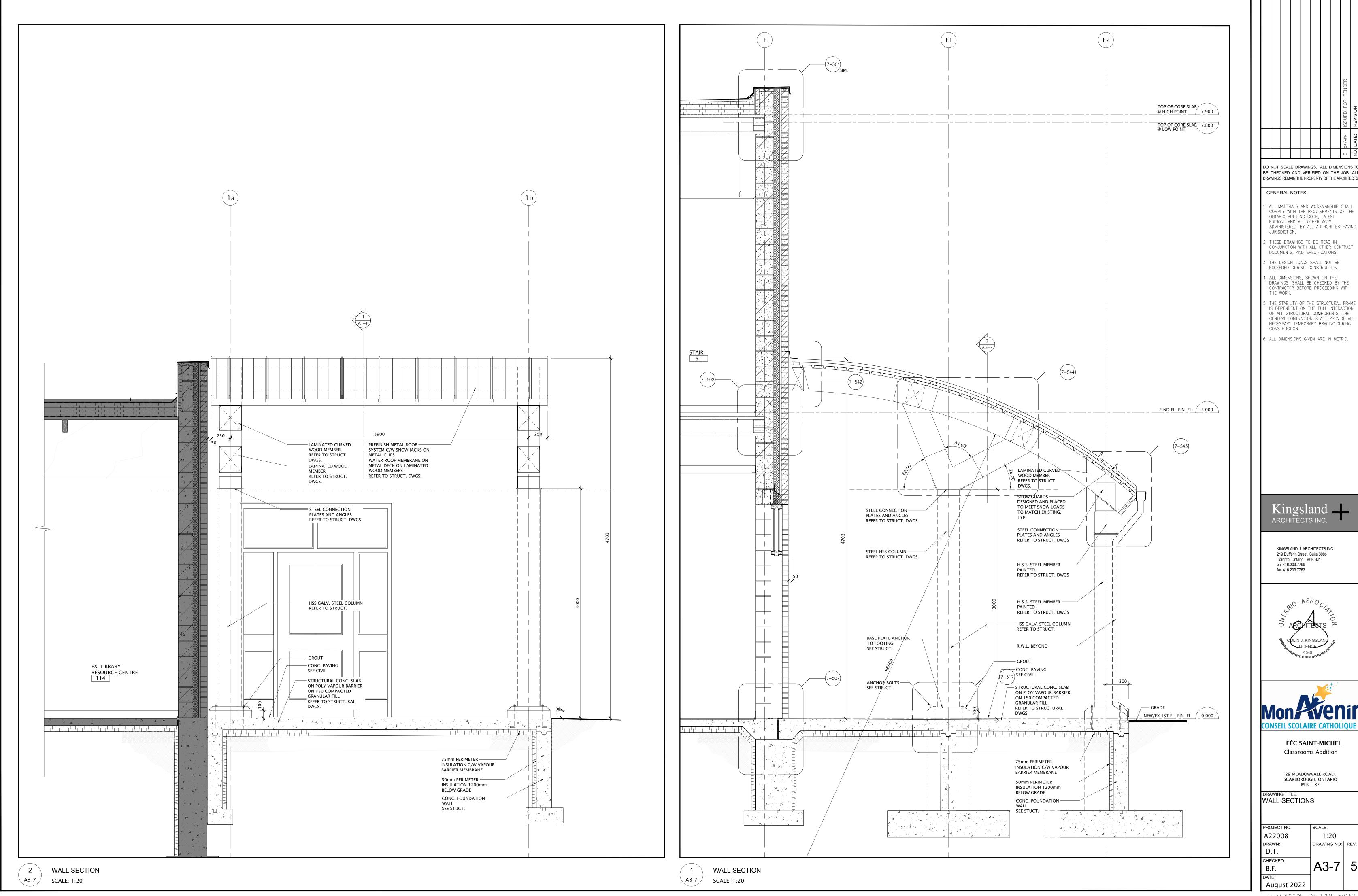
FILES: A22008 - A3-5 WALL SECTION.DWG





SCALE:

1:20 DRAWING NO: REV.



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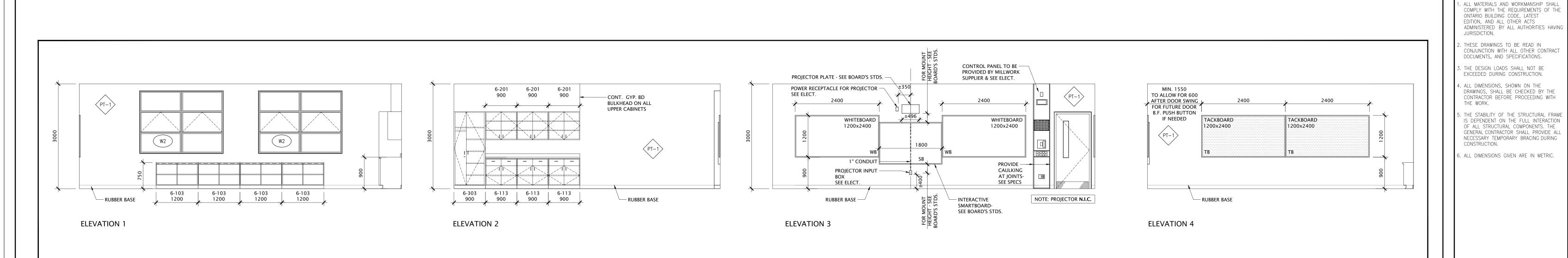
ÉÉC SAINT-MICHEL

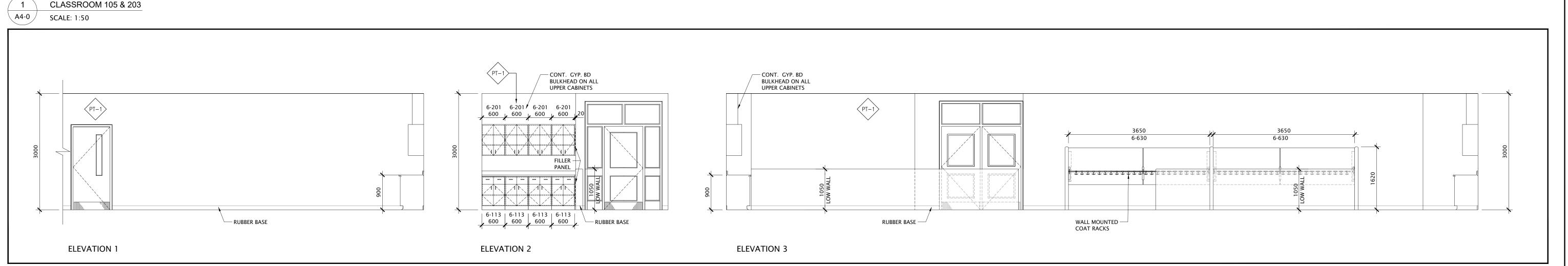
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7 DRAWING TITLE:

PROJECT NO: SCALE: A22008 1:20 DRAWING NO: REV.

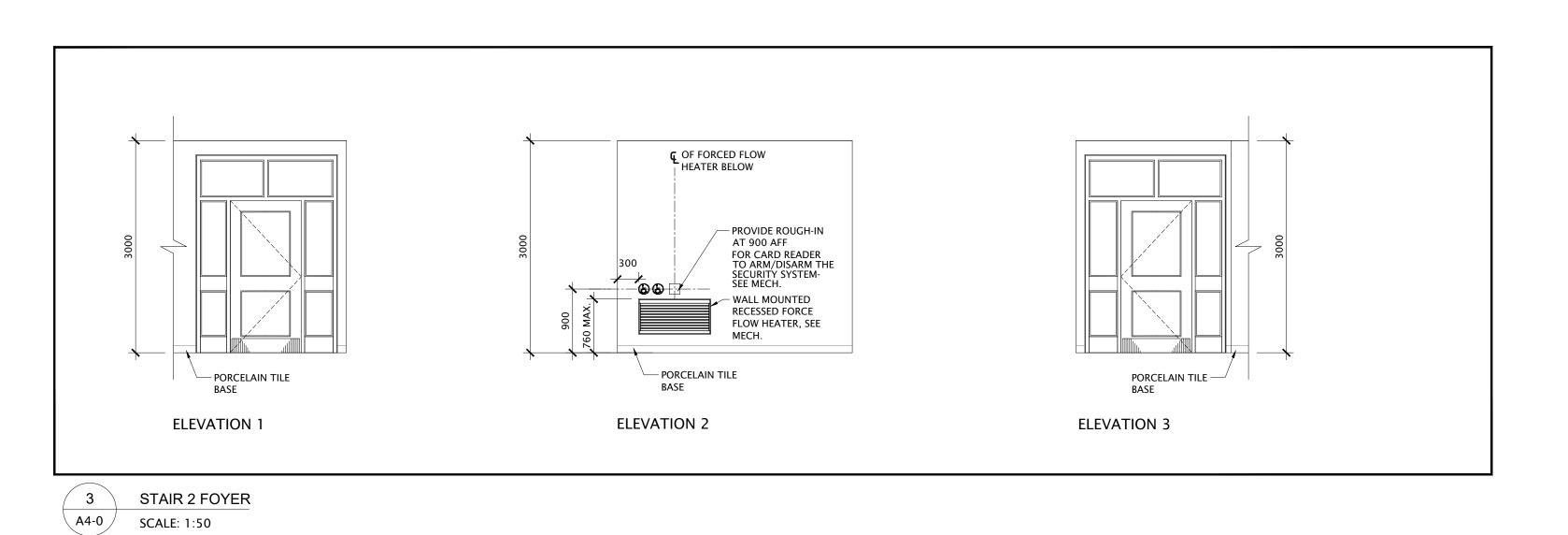
August 2022 FILES: A22008 - A3-7 WALL SECTION.DWG





2 RESOURCE ROOM 103 & CORRIDOR 101
A4-0 SCALE: 1:50

ABBRE'	VIATIONS	LEGEN	ID:
GB	GRAB BARS	TG	TEMPERED GLASS
KP	KICK PLATE	TDD	PAPER TOWEL DISPENSER &
MIR	MIRROR	TTD	DISPOSAL TOILET TISSUE
POR	PORCELAIN	TYP.	DISPENSER
PT	PAINT	111.	TTTC/TE
PTD	PAPER TOWEL DISPENSER		
SD	SOAP DISPENSER		
ТВ	TACKBOARDS		



T.E.

CHECKED:
C.K.

DATE:
August 2022

SCALE:

1:50

CONSEIL SCOLAIRE CATHOLIQUI

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

INTERIOR ELEVATIONS

PROJECT NO:

A22008

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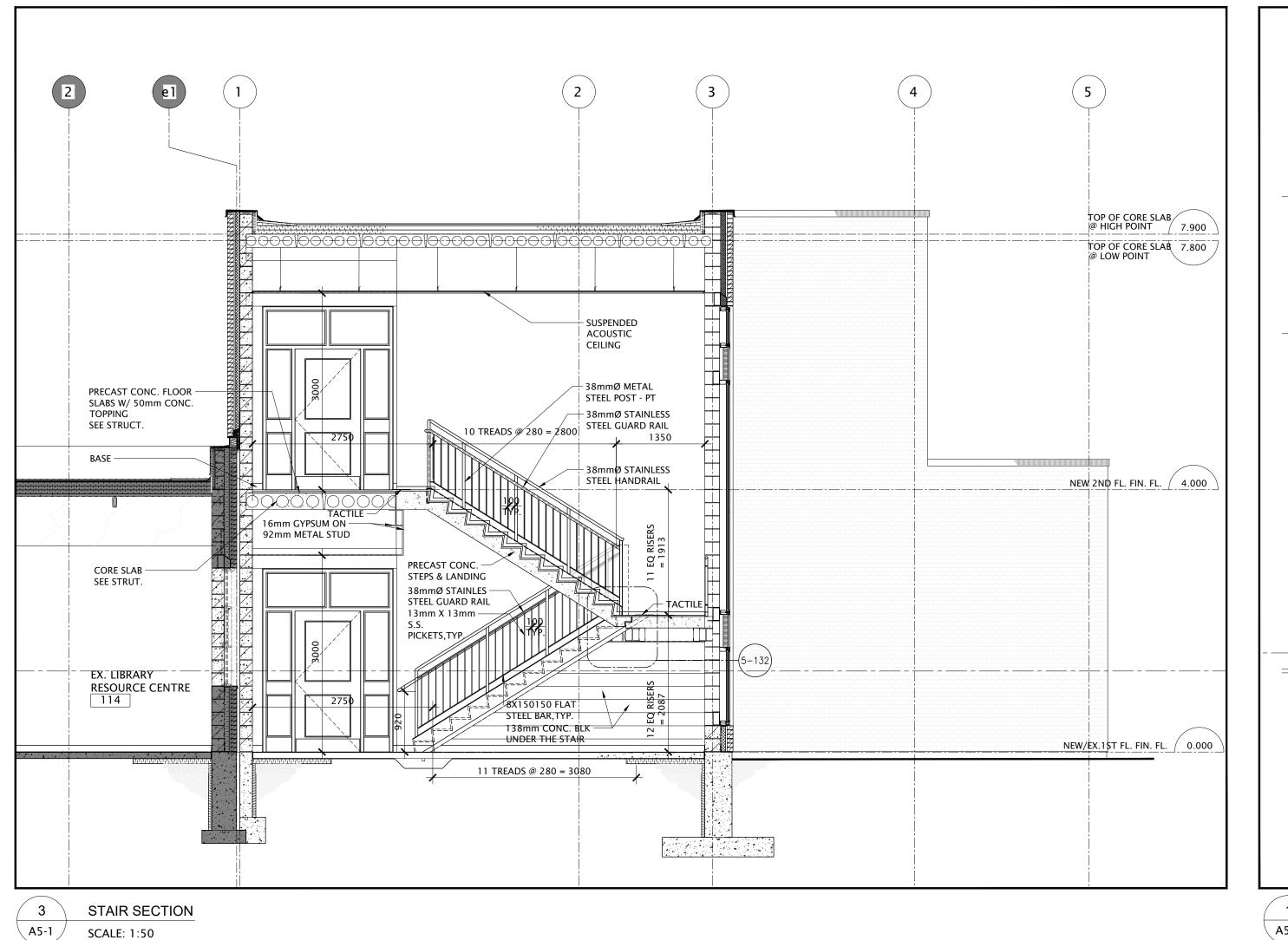
Kingsland ARCHITECTS INC.

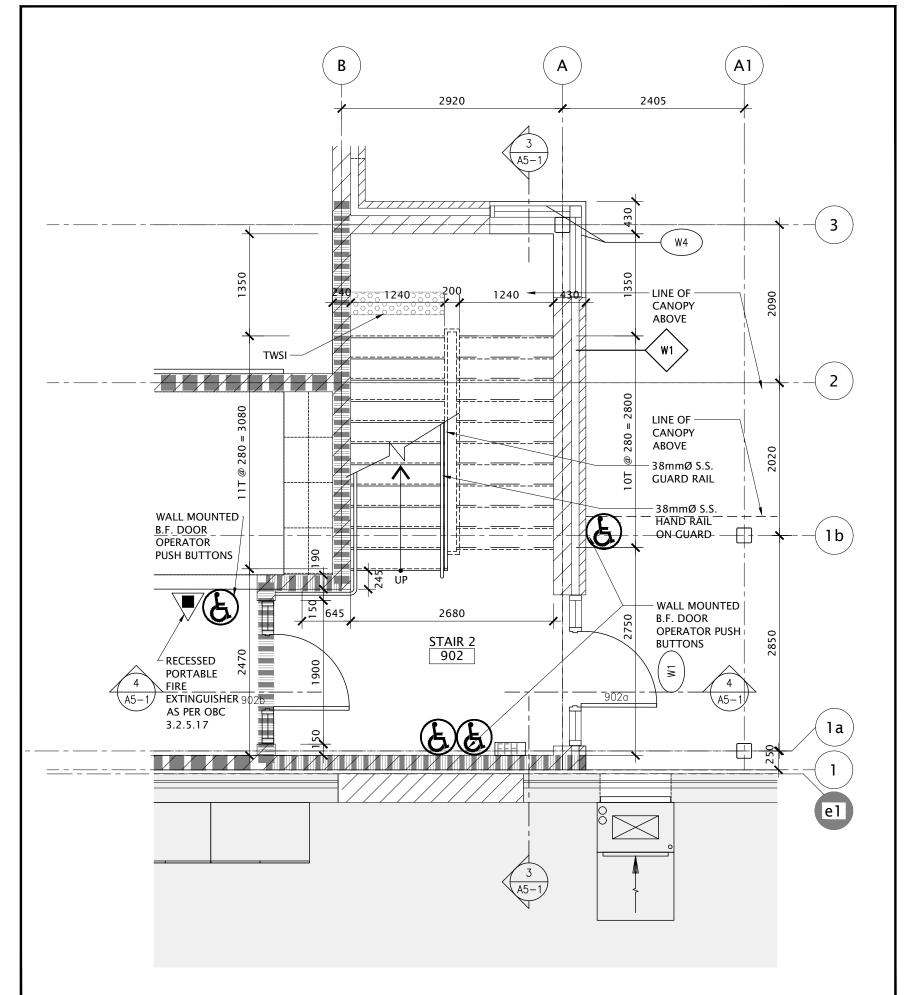
KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1

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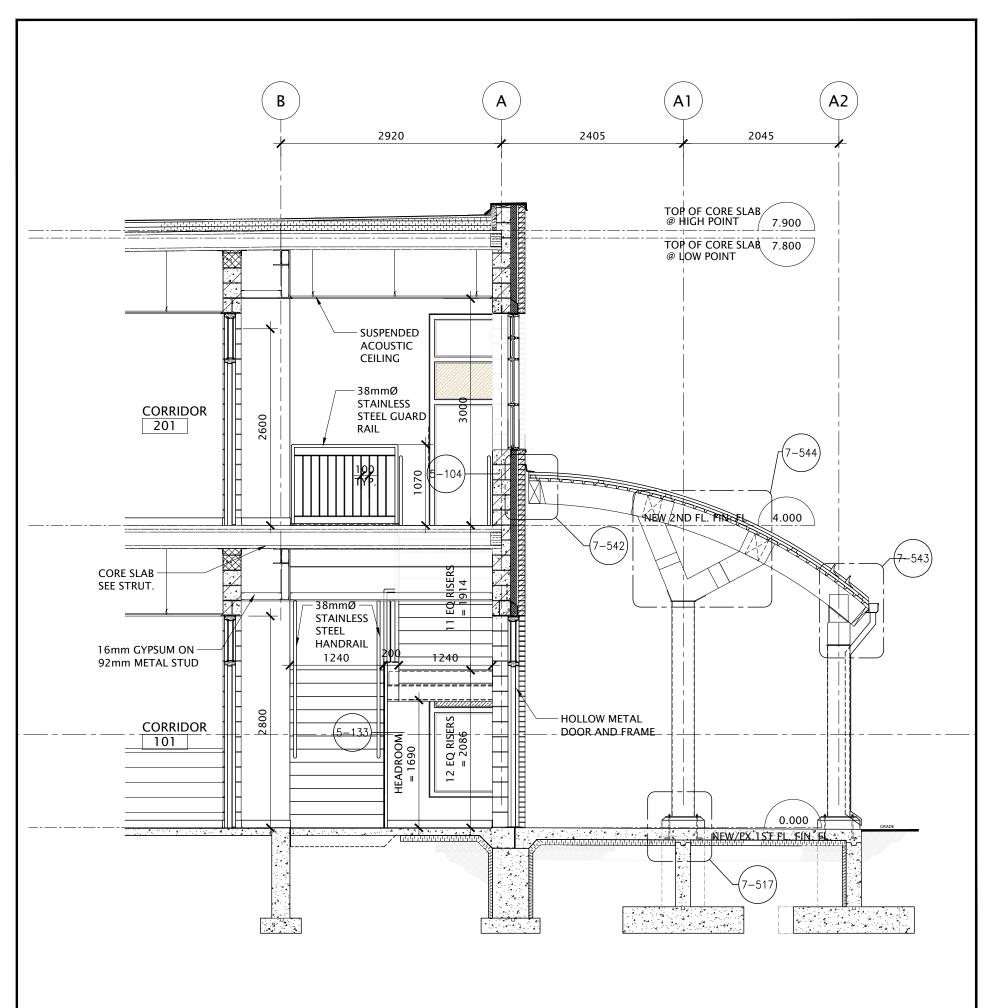
GENERAL NOTES

FILES: A22008 - A4-0 INTERIOR ELEVATION





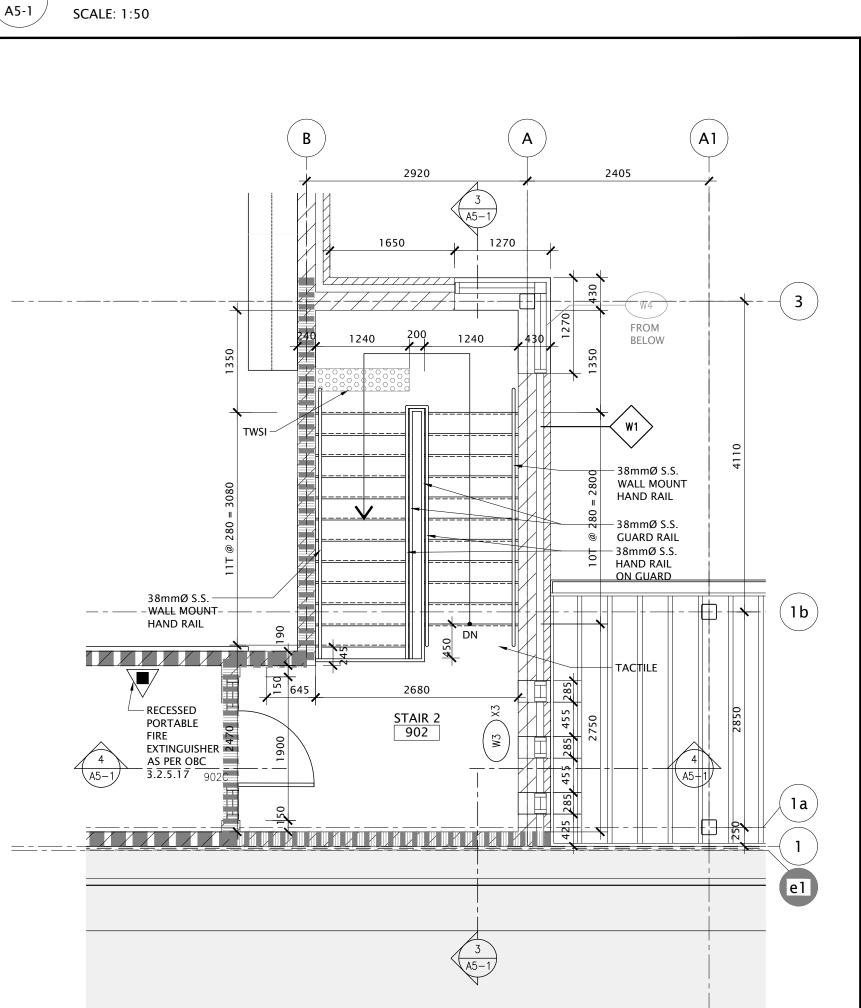
1 FIRST FLOOR - STAIR
SCALE: 1:50

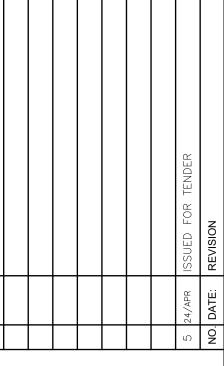


STAIR SECTION

SCALE: 1:50

2 SECOND FLOOR - STAIR
A5-1 SCALE: 1:50





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GENERAL NOTES

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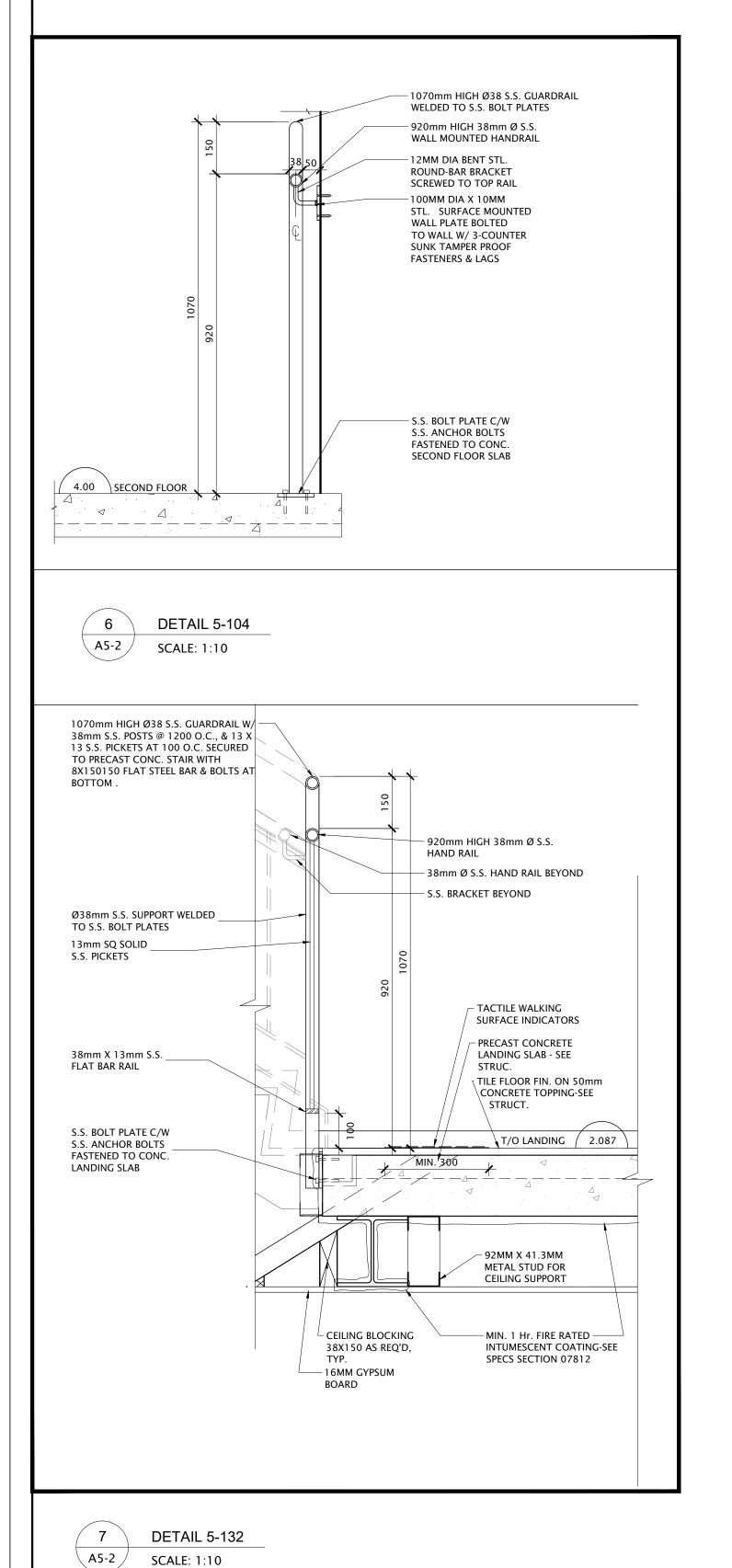
ÉÉC SAINT-MICHELClassrooms Addition

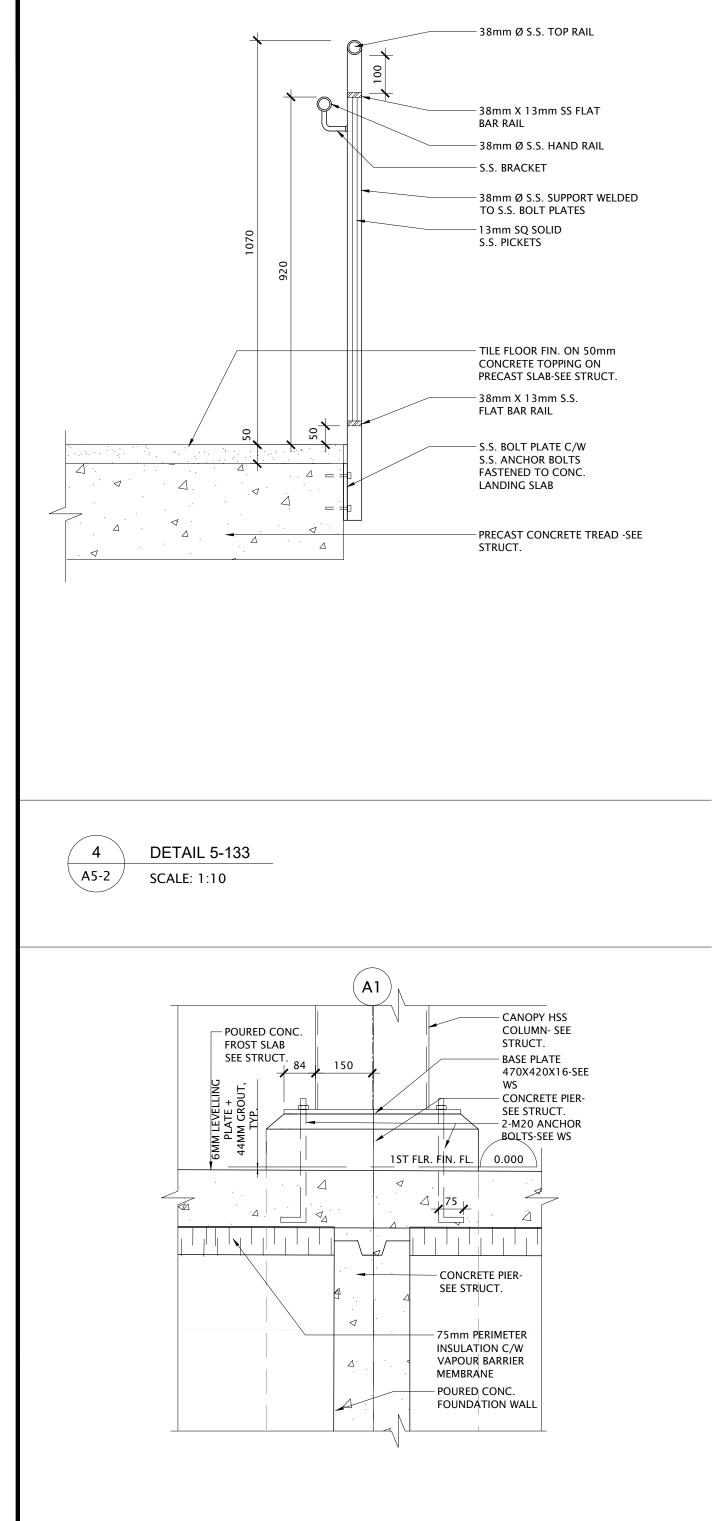
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

DRAWING TITLE:
STAIR PLANS &
SECTIONS AND
DETAILS

PROJECT NO:	SCALE:		1000
A22008	1:50		2
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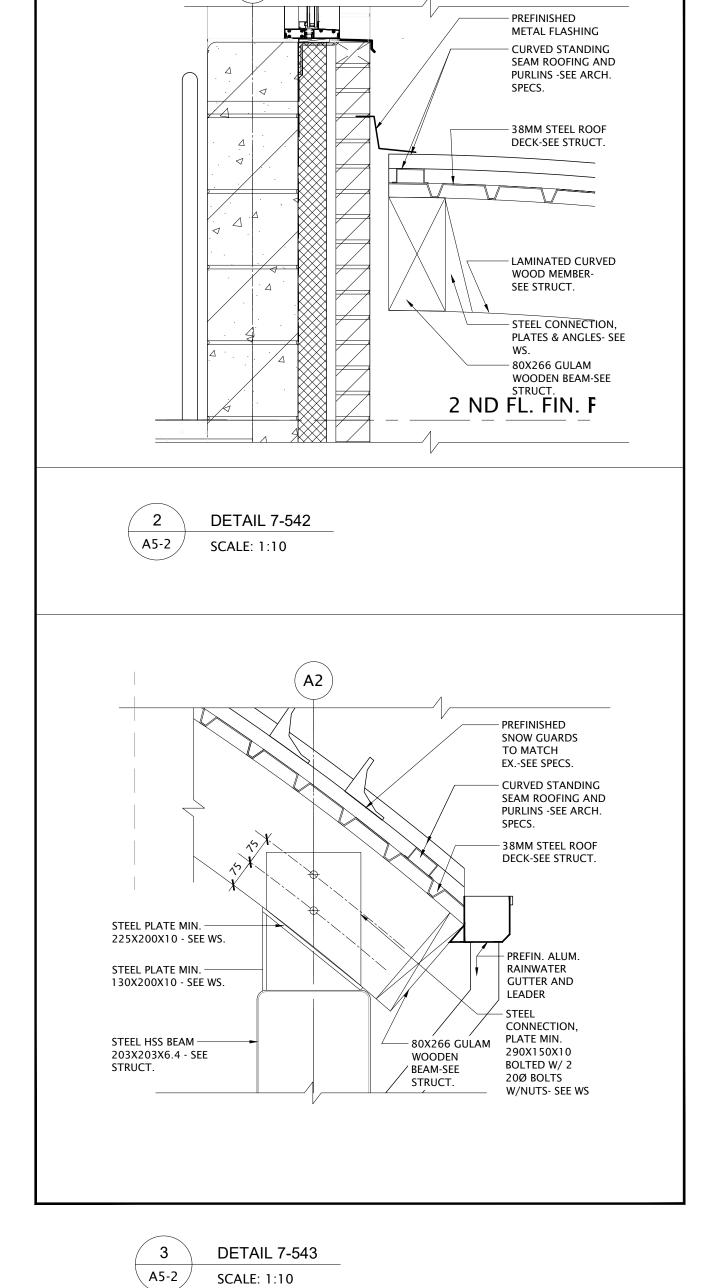




DETAIL 7-517

SCALE: 1:10

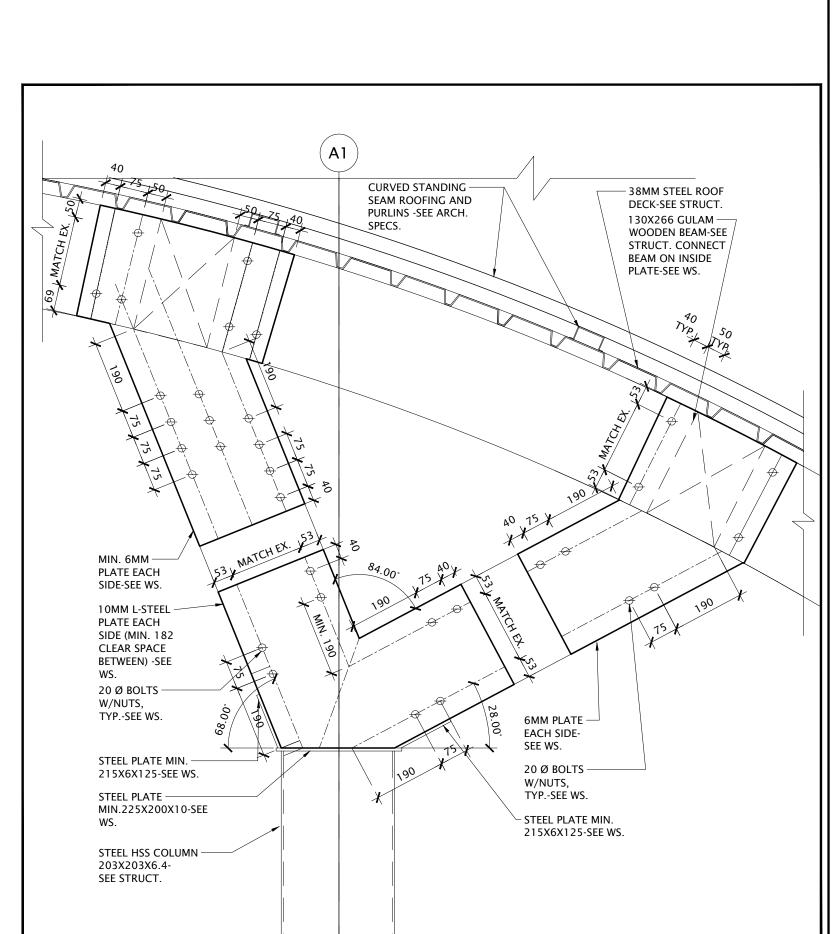
√ A5-2 /





GENERAL NOTES:

WS: TO BE
CONFIRMED BY THE
WOOD
SUPPLIER/CONNECTION
DESIGNER DURING
THE SHOP DRAWING
PHASE.



DOCUMENTS, AND SPECIFICATIONS.

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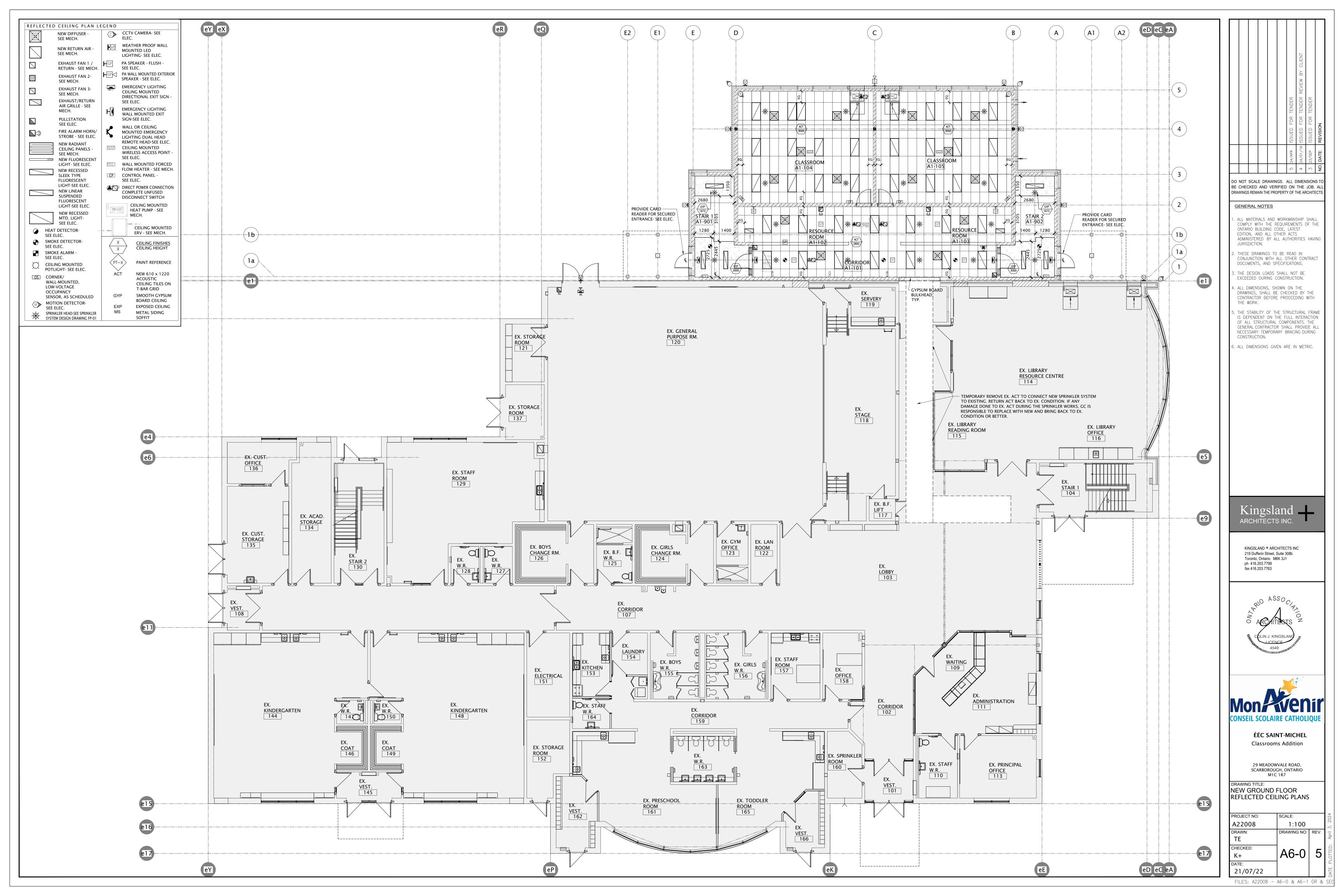
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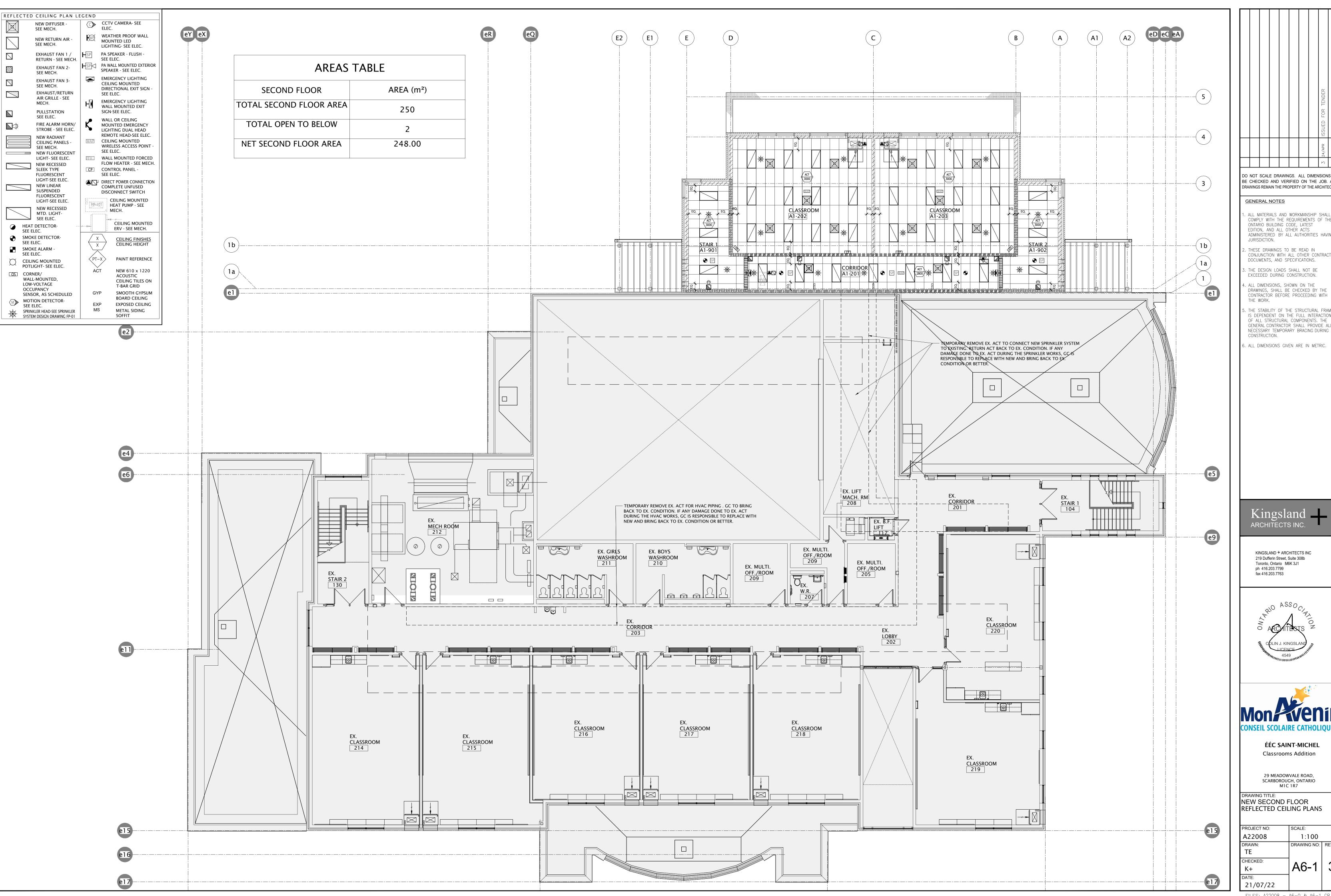
SCARBOROUGH, ONTARIO M1C 1R7

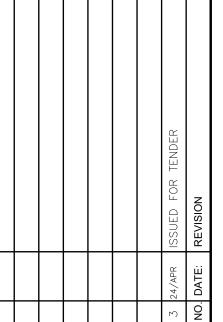
DRAWING TITLE:
HANDRAILS & GUARDRAILS AND
CANOPY DETAILS

PROJECT NO: SCALE: A22008 1:10 DRAWN: D.T. /T.E. CHECKED: C.K. DATE: August 2022 A2202 DRAWING NO: REV. DATE: August 2022

FILES: A22008 - A5-1, A5-2 STAIR & DE







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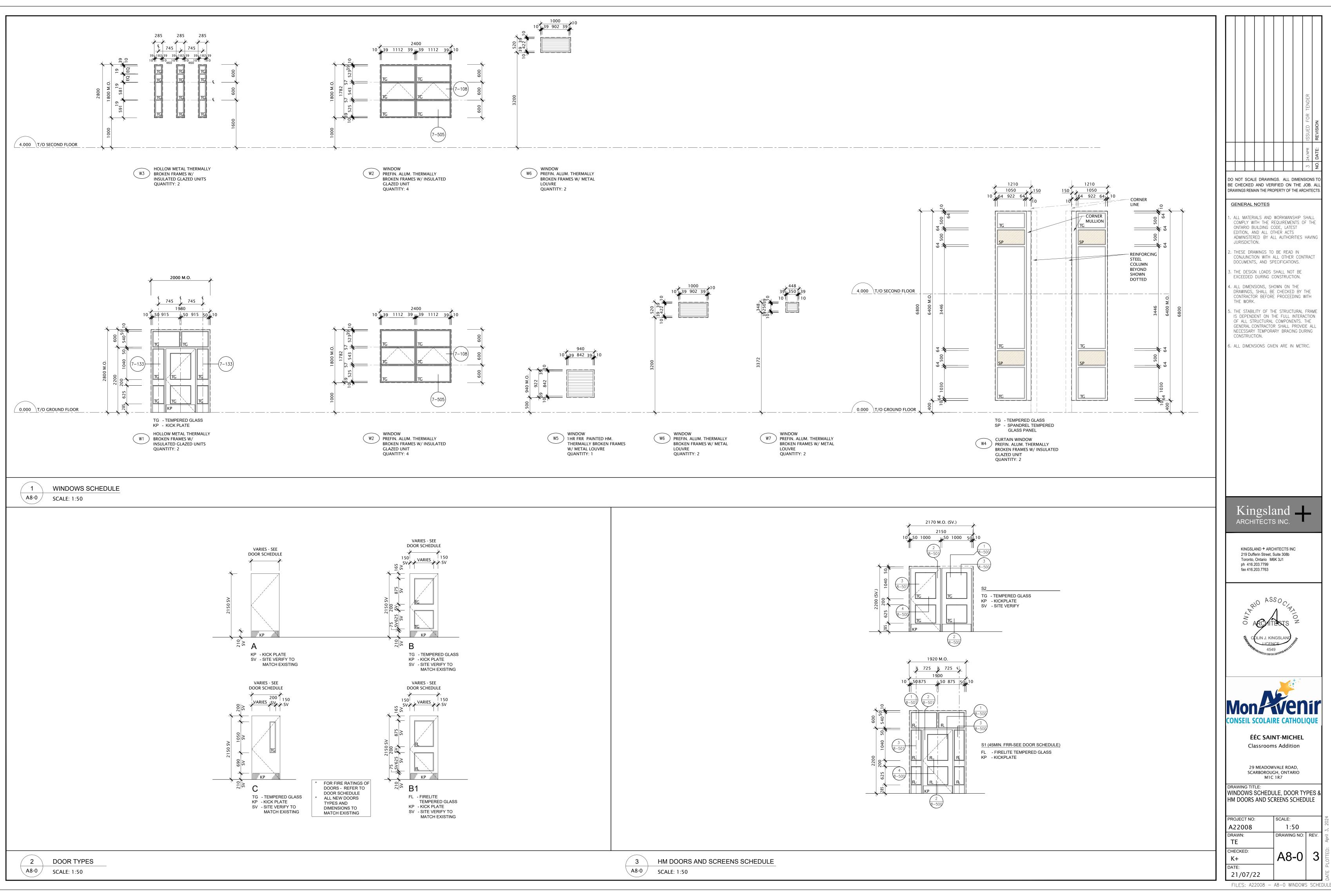
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

RAWING TITLE: NEW SECOND FLOOR REFLECTED CEILING PLANS

PROJECT NO:	SCALE:		2024
A22008	1:100		3. 2
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FILES: A22008 - A6-0 & A6-1 GR & SE



DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL

DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING

. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT

3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.

4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH

. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALI

NECESSARY TEMPORARY BRACING DURING

6. ALL DIMENSIONS GIVEN ARE IN METRIC.

Kingsland —

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1



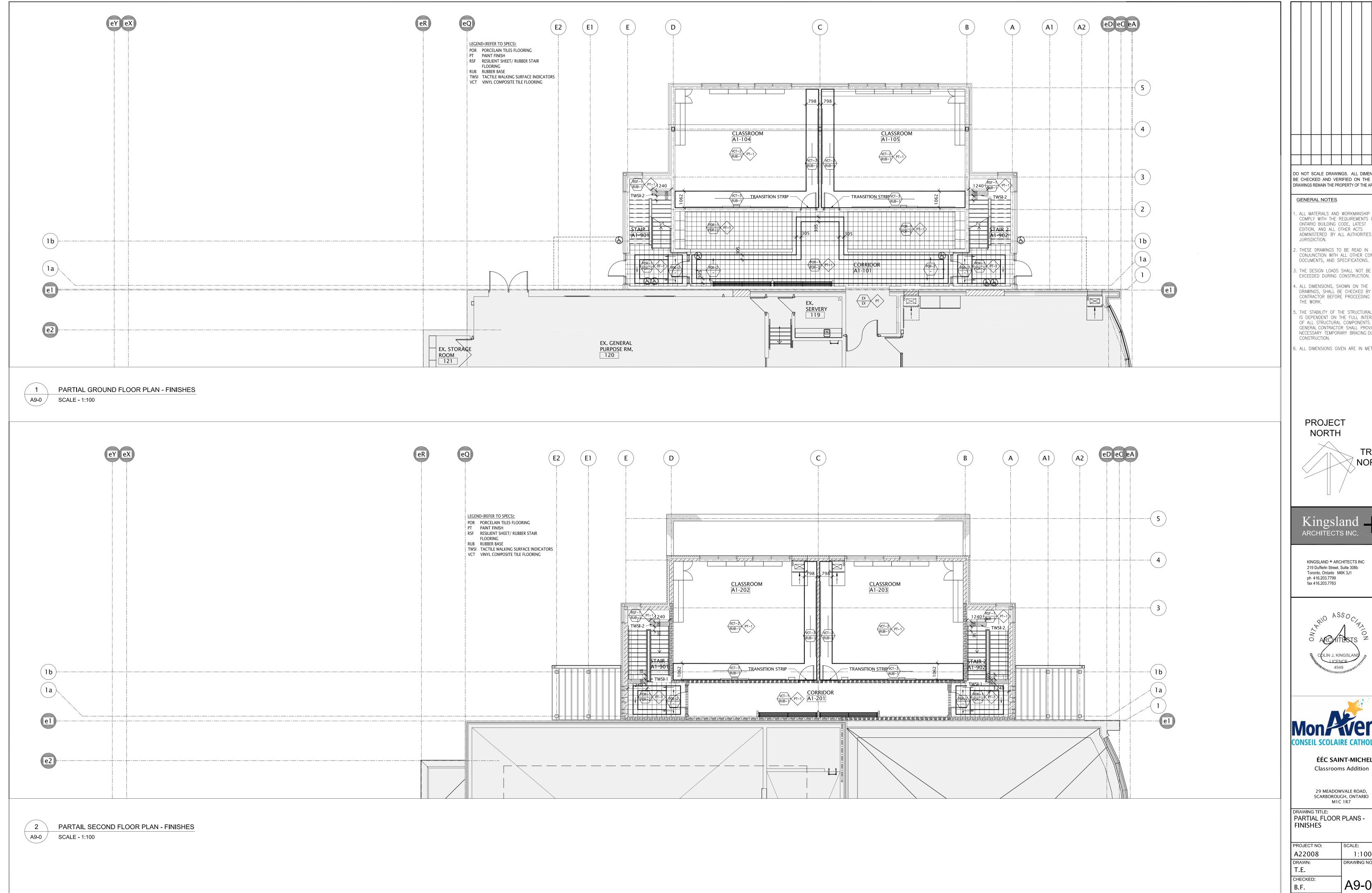


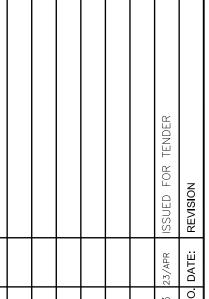
ÉÉC SAINT-MICHEL

SCARBOROUGH, ONTARIO M1C 1R7

WINDOWS SCHEDULE, DOOR TYPES & HM DOORS AND SCREENS SCHEDULE

PROJECT NO:	SCALE:		202
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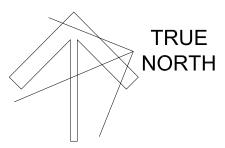
DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING

- . THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

PROJECT NORTH



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KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763





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29 MEADOWVALE ROAD,

SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: PARTIAL FLOOR PLANS -FINISHES

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PROJECT NO:	SCALE:		2024
A22008	1:100		4. 2
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FILES: A22008 - A9-0 FINISHES.DWG

WANITA ROAD (BY REG'D PLAN 2770) N 72° 46' 15" E (N72°46'50"E PI,P4&P5) SIB(OU) 30.48 (PI,P48:MEAS) IB(1176) 59.44 (P5,P68SET) PART 2, PART 3, PLAN 66R-27443 IB(OU) PLAN 66R-27443 PIN 06224-0152 PLAN LOT 20, REG'() PIN 06224-0154 PART 2, PLAN 66R-17159 PIN 06224-0153 PART 2. PLAN 64R-9914 PART 3, PLAN 64R-4168 PIN 06224-0005 (PI,P2&MEAS) 60.92 0.50% & 0.50% & CON.& CON. & (N72°47'40"E |P2) N 72° 48' 25" E 57.91 (P28SET) PART 2, PLAN 64R-10665 PART I, PLAN 66R-23944 PIN 06224-0007 (N72°47'40"E P2&P3) PIN 06224-0150 N 72° 49' 10" E 57.91 (P3&MEAS) (57.87 P2) PART 3, PLAN 64R-10665 PIN 06224-0008 (N72°44'10"E PI&P2) N72°43'10"E PORTABLE (P28MEAS) N 72° 46' 10" E 57.87 (P28MEAS) PORTABLE | IB(II76) PART 1, PLAN 66R-22526 PIN 06224-0132 (N72°46'10"E/P2) (P18MEAS) N 72° 46' 20" E PIN 06224-0150 PART I, PLAN 66R-22827 PIN 06224-0137 PART 2, PLAN 66R-22827 PIN 06224-0138 2 STOREY BRICK SCHOOL No. 29 I. PLAN 66R-23944 PLAN 66R-22827 PART 1, PLAN 66R-23944 ASPHALT DRIVEWAY PIN 06224-0145 PART 8, PLAN 66R-22827 PIN 06224-0146 PART 9, PLAN 66R-22827 SUBJECT TO AN EASEMENT FOR ENTRY AS IN INST. No. AT3052277 CHAIN LINK FENCE MOST EASTERLY ANGLE OF LOT 24, REG'D PLAN 2770 PART 1, PLAN 66R-23944 LOT 25, REGISTERED PLAN 2770 PIN 06224-0150 PIN 06224-0014 **N 72° 50' 55" Ê** (N72°51'45"E PI&P2) (P2&MEAS) (30.46 PI) PIN 06224-0062 PIN 06224-0015 LOT 39, REGISTERED PLAN 2770

SURVEYOR'S REAL PROPERTY REPORT - PART 1 PLAN OF SURVEY AND TOPOGRAPHY OF PART OF LOTS 21, 22, 23, 24 AND 48 REGISTERED PLAN 2770 CITY OF TORONTO

SCALE 1 : 250 J. H. Gelbloom Surveying Limited Ontario Land Surveyor 2019 © COPYRIGHT 2019 J. H. Gelbloom Surveying Limited
The reproduction, alteration, or use of this REPORT in whole or in part, without
the written permission of J. H. Gelbloom Surveying Limited is Strictly Prohibited. SURVEYOR'S REAL PROPERTY REPORT - PART 2 REGISTERED EASEMENTS AND/OR RIGHT-OF-WAY

NOTABLES

- Note the location of the Fences around the Subject Property.

- Note the location of the Sheds, Sidewalk and Wood Deck around the Subject Property.

- Note the location of the Bell Box and Driveway along Meadowvale Road

Survey Monument Found Survey Monument Set Standard Iron Bar Plastic Bar Cut Cross Concrete Pin 1006 H. Flim Ltd., O.L.S. 1176 D.E. Roberts, O.L.S. BSP Borough of Scarborough Public Works Ertl Surveyors, O.L.S. Omari Mwinyi Surveying Ltd., O.L.S. Origin Unknown Plan 66R-23944 Plan 66R-22827 Plan 64R-10665 Plan 64R-10222 Plan 66R-17159 Plan 66R-27443 Finished Floor Board Fence Chain Link Fence Wrought Iron Fence Maintenance Hole Water Valve HYD. GW UP HH LP DEC. CON. TOS Hydrant Guy Wire Utility Pole Hand Hole Light Pole Deciduous Coniferous Top of Slope Bottom of Slope Top of Curb Bottom of Curb Bell Box

BENCHMARK Elevations are Referred to the City of Toronto Benchmark No. 12020001701 having an Elevation of 94.954 m.

NOTE
This REPORT can be updated by this office, however NO ADDITIONAL PRINTS of this ORIGINAL REPORT will be issued, subsequent to the DATE OF CERTIFICATION. All building ties are perpendicular to property lines unless otherwise noted. This REPORT was prepared for Conseil Scolaire Catholique MonAvenir and the undersigned accepts no responsibility for use by other parties.

Distances shown on this plan are in metres and can be converted to feet by dividing by 0.3048.

BEARING NOTE
Bearings are Astronomic, and are Referred to the Easterly limit of
Meadowvale Road as shown on Plan 66R-22827, having a Bearing of N 17° 12' 50" W.

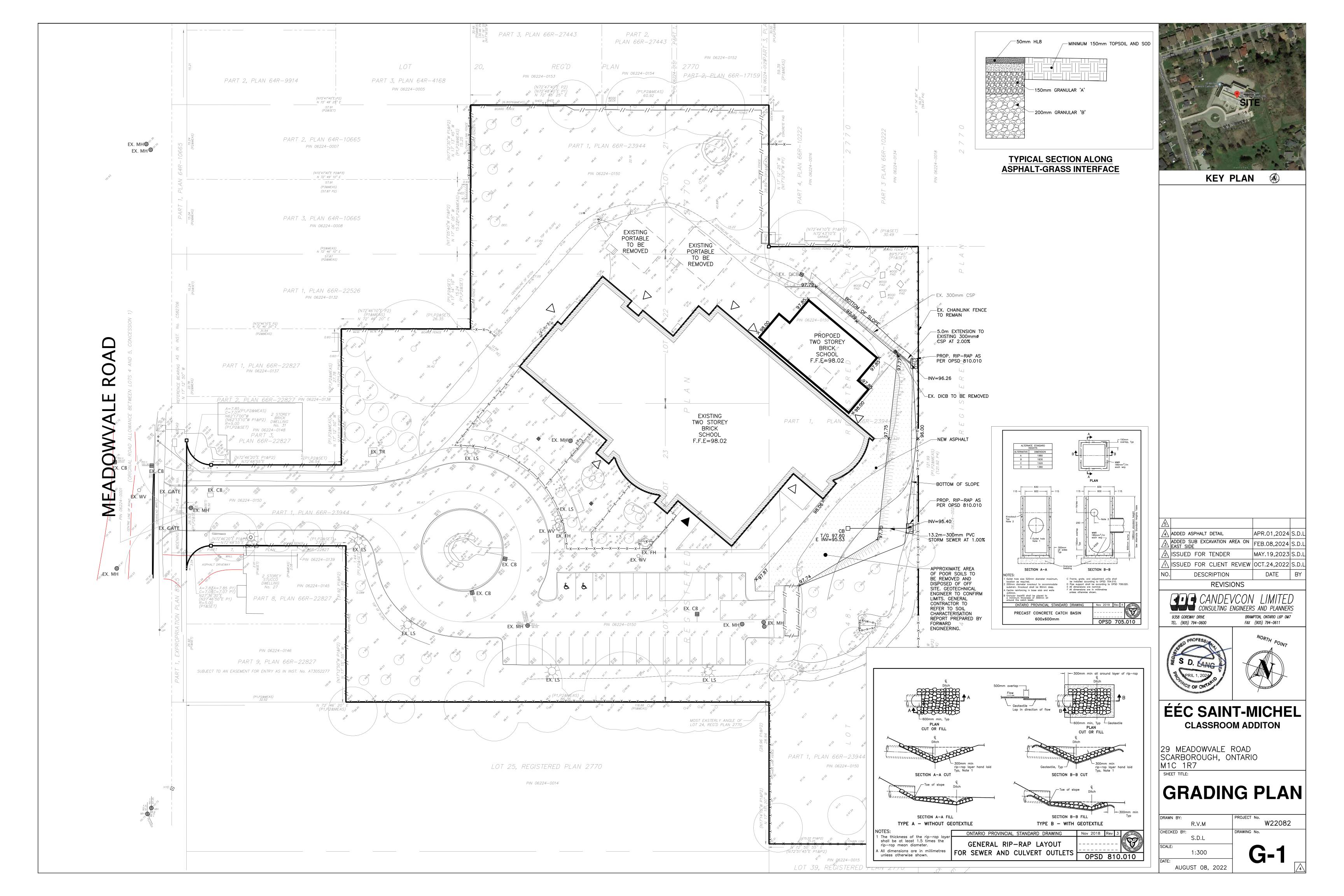
SURVEYOR'S CERTIFICATE

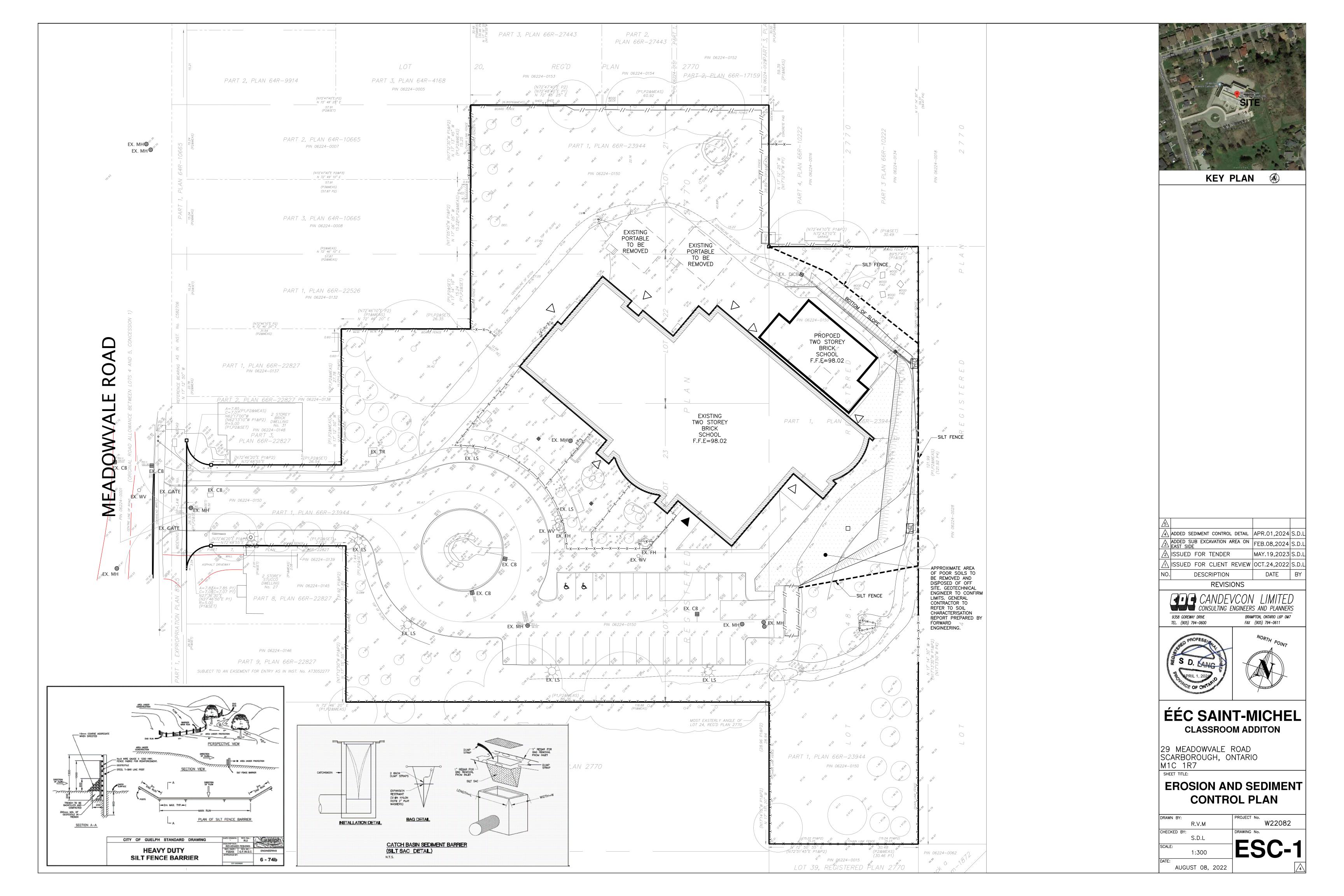
I certify that:
I: This survey and plan are correct and in accordance with the Surveys
Act, the Surveyors Act, and the Regulations made under them.
2: The survey was completed on the 25th day of April, 2019.



Andrew Musil. O.L.S. Party Chief: Drawn By: Checked By: Project:
J.W. A.M. A.R. 19-02

J. H. Gelbloom Surveying Limited
Ontario Land Surveyor
476 Morden Road, Unit 102, Oakville, Ont., L6K 3W4
office@jhgsurveying.ca
Phone:(905) 338-8210 Fax:(905) 338-9446





CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MP ¹)	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-	FOOTINGS	25	N	
EXPOSED CONCRETE	COLUMNS	25	N	
(i.e., NOT EXPOSED TO	SHEAR WALLS	25	N	
CHLORIDES NOR	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)	25	N	
FREEZE AND THAW)	SLAB ON GRADE 2	25	N	
,	LEAN MIX	5	N	
	TOPPINGS	25	N	
	UNSHRINKABLE FILL	0.4 MAX.	N	
EXTERIOR EXPOSED	FOUNDATION/RETAINING WALLS	25	F-2	
CONCRETE	COLUMNS	25	F-2	
EXCLUDING PARKING	SHEAR WALLS	25	F-2	
(i.e., EXPOSED TO	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)	25	F-2	
FREEZE AND THAW	SLAB ON GRADE ² , SIDEWALKS	32	C-2	
BUT NOT CHLORIDES)				
				001150514.50
GROUT	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179

1) STRENGTH SPECIFIED AT 28 DAYS U.N.O IN DRAWINGS AND SCHEDULES. REINFORCED WITH SYNTHETIC FIBERS ADDED AT BATCHING PLANT - SEE SPECIFICATIONS

> LOWER ELEVATIONS AT UNDERSIDE OF COLUMN AND WALL FOOTINGS, WHERE REQUIRED, BUT LIMITED TO SUIT STORM / SANITARY, WATER / FIRE LINES AND ELECTRICAL DUCT BANKS. THE MAXIMUM SLOPE FROM THE PIPE EXCAVATION TO THE UNDERSIDE OF ADJACENT FOOTING ELEVATIONS SHALL NOT EXCEED 7 VERTICAL TO 10 HORIZONTAL.

> > WHERE MECHANICAL SERVICE PIPES PASS THROUGH LOAD BEARING FOUNDATION WALLS, PROVIDE STEEL SLEEVES (MIN.50Ø) LARGER THAN PIPE (TYPICAL)

DESIGN CRITERIA NOTES

- GENERAL 1.1. THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC
- (O. REG. 332/12 AS AMENDED) INCLUDING CLAUSES 4.1.6.1(1), 4.1.6.4(3), 4.1.7 AND 4.1.8. 1.2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF
- STRUCTURES LISTED IN TABLE 4.1.8.18 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18. 1.3. BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS HIGH. 1.4. STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE

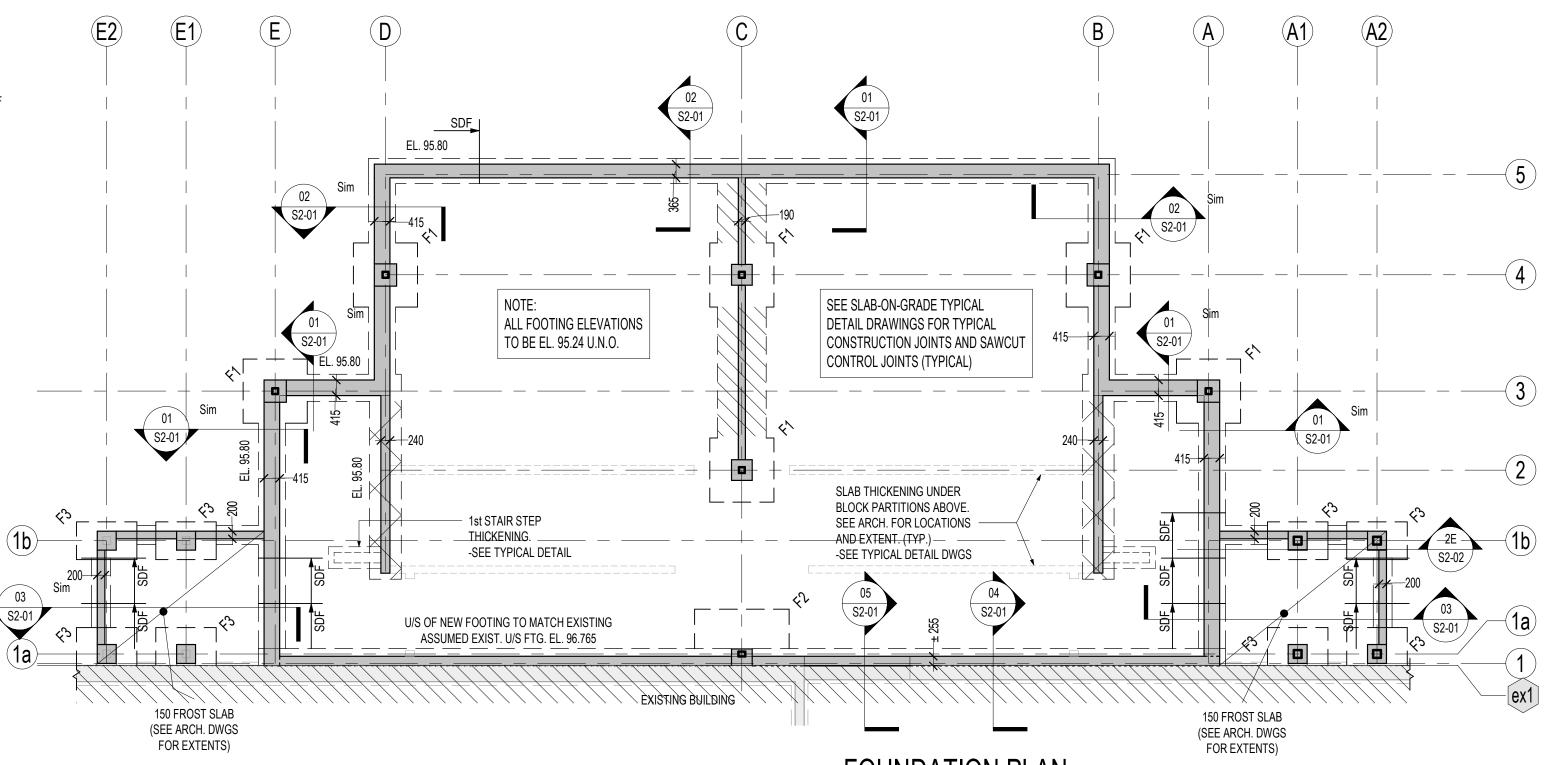
RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 15mm SEPARATION UNLESS NOTED

- 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
- 1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION; STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
- 1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14. 1.5.3. DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.4.6.5(12).
- 1.5.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa.
- 1.6. ARCHITECTURAL PRECAST FABRICATOR SHALL: 1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
- 1.6.2. WHERE PRECAST IS USED AS A GUARD DESIGN THE PRECAST AND CONNECTIONS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.

2. LATERAL LOADS ON STRUCTURE

- 2.1. WIND
- q(1/50) = 0.47 kPa $Ce = 0.7* (h/12)^0.3$
- Cp = AS PER FIGURE I-15 OF USER'S GUIDE NBC 2010 STRUCTURAL COMMENTARIES
- (PART 4 OF DIVISION B). 2.2 SNOW
- Ss = 1.2 Sr = 0.4
- 2.3. EARTHQUAKE Sa(0.2) = 0.219PGA = 0.140 Fa = 1.18
- Sa(0.5) = 0.116SITE CLASS = D Fv = 1.49Sa(1.0) = 0.060Rd = 1.5Ro = 1.5
- Sa(2.0) = 0.0290leFaSa(0.2) = 0.336SFRS CONSISTS OF CONVENTIONAL MASONRY SHEAR WALLS.
- METHOD OF ANALYSIS :- STATIC
- 3. FOUNDATION WALLS 3.1. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE (P=K (Wt.h+g)
- K = 0.45 $Wt = 22kN/m^3$
- q = 12kPa
- 3.2. THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT





FOUNDATION PLAN

1:100

- 1. ALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATIVE SILT TILL/CLAYEY SILT TILL STRATUM CAPABLE OF SUSTAINING 150kPa (SLS)
- 2. REFER TO SOILS REPORT NO. G6465-A DATED AUGUST 22. 2022. PREPARED BY FORWARD ENGINEERING & ASSOCIATES INC.
- 3. SOIL AT THE UNDERSIDE OF THE FOOTINGS IS TO BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF A SOILS CONSULTANT BEFORE PLACING CONCRETE.
- 4. UNDERSIDE OF WALL FOOTINGS TO BE AT ELEVATIONS AS NOTED.
- 5. SLAB ON GRADE TO BE 100 mm THICK REINFORCED SYNTHETIC FIBRES. (SEE SPECIFICATION)
- 6. TOP OF SLAB ON GRADE TO BE AT FINISHED FLOOR DATUM ELEVATION, 98.05m EXCEPT AS CROSSED AND NOTED. TOS = TOP OF SLAB. CENTRELINES OF COLUMNS, CAPS AND FOOTINGS ARE COINCIDENT UNLESS OTHERWISE NOTED.
- 8. PROVIDE SLAB DEPRESSIONS. OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS. AS REQUIRED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- 9. SDF = STEP DOWN FOOTING. 10. UNLESS OTHERWISE NOTED, ALL WALL FOOTINGS TO BE 300 mm DEEP WITH 150 mm PROJECTIONS EACH SIDE.
- 11. FILL REQUIRED ON BOTH SIDES OF FOUNDATION WALLS SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON BOTH SIDES TO EQUALIZE SOIL PRESSURE.
- 12. THE PROJECT SUPERINTENDENT MUST NOTIFY THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE, INCLUDING STRIP
- FOOTINGS. 13. SEE ALSO TYPICAL NOTES AND DETAILS.
- 14. SEE COLUMN SCHEDULE FOR COLUMNS, AND COLUMN FOOTINGS.
- 15. CONCRETE STRENGTHS SEE CONCRETE SCHEDULE.

SITE PREPARATION NOTES FOR SLAB-ON-GRADE

(WITHIN BUILDING ENVELOPE)

- 1. THE AREA WITHIN THE BUILDING SHALL BE STRIPPED OF THE UPPER LAYER SOIL, FILL, ORGANICALLY CONTAMINATED MATERIAL AND RUBBLE AND TO A MINIMUM OF 200mm (8") BELOW THE UNDERSIDE OF THE SLAB ON GRADE.
- 2. THE EXPOSED SUB-GRADE SHALL BE EXAMINED AND APPROVED BY THE SOIL CONSULTANT. 3. THE ENTIRE AREA SHALL BE PROOF ROLLED WITH A HEAVY COMPACTOR TO A MINIMUM OF 95% STANDARD PROCTOR MAX. DRY DENSITY AND TO THE APPROVAL OF THE SOIL CONSULTANT.
- 4. ANY LOOSE OR SOFT SPOTS ENCOUNTERED SHALL BE SUB-EXCAVATED AND BACKFILLED WITH COMPACTED APPROVED MATERIAL. 5. FILL REQUIRED TO RAISE THE GRADES SHALL BE COMPRISED OF APPROVED **GRANULAR 'B' TYPE 1 CONFORMING TO OPSS 1010** PLACED
- IN SUCCESSIVE LOOSE 200mm(8") LAYERS EACH COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. 6. THE LAYER IMMEDIATELY BELOW THE SLAB-ON-GRADE SHALL BE 150mm (6") OF 19mm CLEAR STONE COMPACTED TO MIN. 98% STANDARD PROCTOR MAX. DRY DENSITY.
- 7. ALL PROCEDURES, EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE SOIL CONSULTANT WHO SHALL CONDUCT SUFFICIENT TESTS TO ENSURE THAT THE SPECIFIED MATERIALS AND DENSITIES ARE ACHIEVED.
- 8. THE CONTRACTOR SHALL CO-ORDINATE WITH THE SOIL CONSULTANT AND ARRANGE A SUITABLE PROGRAM FOR SAMPLING AND
- INSPECTIONS, ETC. AND NOTIFY THE ARCHITECT ACCORDINGLY. 9. EXISTING ON-SITE MATERIAL MAY BE USED WITHIN THE BUILDING AREA FOR BACKFILLING IN TRENCHES AGAINST FOUNDATION WALLS OR UNDER SLABS-ON-GRADE, PROVIDED THE EXCAVATED MATERIAL DOES NOT BECOME WET. THE EXCAVATED MATERIALS WILL BE SENSITIVE
- TO MOISTURE CONTENT, AND THE USE OF GRANULAR 'B' IS PREFERRED. 10. REFER TO THE SPECIFICATION AND THE SOIL REPORT FOR PREPARATION OF AREAS OUTSIDE THE BUILDING ENVELOPE.

	DRAWING LIST					
Sheet Number	Sheet Name					
S1-01	FOUNDATION PLAN					
S1-02	SECOND FLOOR / LOW ROOF FRAMING PLAN					
S1-03	ROOF FRAMING PLAN AND ROOF SECTIONS					
S2-01	FOUNDATION SECTIONS					
S2-02	SECOND FLOOR SECTIONS					
S3-01	GENERAL NOTES					
S3-02	TYPICAL DETAILS					
S3-03	TYPICAL DETAILS					
S3-04	TYPICAL DETAILS					
S3-05	TYPICAL DETAILS					
S3-06	TYPICAL DETAILS AN GENERAL NOTES					

S3-01	GENERAL NOTES
S3-02	TYPICAL DETAILS
S3-03 S3-04	TYPICAL DETAILS TYPICAL DETAILS
S3-05	TYPICAL DETAILS
S3-06	TYPICAL DETAILS AN GENERAL NOTES

NOTE: EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED AND ARE TO BE VERIFIED BY THE CONTRACTOR ANY VARIATIONS ARE TO BE REPORTED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING.

							STEEL CO	DLUMN SO	CHEDULE	-						
T/O P/C ROOF (HP)																
T/O SECOND FLOOR	HSS152x152x6.4										HSS152x152x6.4					
T/O GROUND FLOOR	HSS	HSS203x203x6.4	HSS203x203x6.4	HSS203x203x6.4	HSS203x203x6.4	HSS152x152x6.4	HSS178x127x6.4	HSS152x152x6.4	HSS152x152x6.4	HSS152x152x6.4	NSSH.	EXIST. COL. TO BE RE-USED	EXIST. COL. TO BE RE-USED	EXIST. COL. TO BE RE-USED	EXIST. COL. TO BE RE-USED	
U/S B.PL350 (U.N.O.)	<u> </u>								4							
BASE PLATE SIZE ANCHOR RODS	325x20x325 (4)-AR1	350x20x350 (4)-AR2	350x20x350 (4)-AR2	350x20x350 (4)-AR2	350x20x350 (4)-AR2	325x20x325 (4)-AR1	350x20x250 (4)-AR1	325x20x325 (4)-AR1	325x20x325 (4)-AR1	325x20x325 (4)-AR1	325x20x325 (4)-AR1	350x20x350 (4)-AR2	350x20x350 (4)-AR2	350x20x350 (4)-AR2	350x20x350 (4)-AR2	
PIER SIZE VERTICAL REINF. TIES	590x590 10-15V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	590x590 10-15V 10@300T	550x450 8-15V 10@300T	550x550 8-15V 10@300T	550x550 8-15V 10@300T	590x590 10-15V 10@300T	590x590 10-15V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	500x500 8-20V 10@300T	
FACTORED LOADING (kN)	50	50	50	50	50	300	450	550	300	300	50					
Column Locations																
	A-3	A1-1a M	A1-1b M	A2-1a M	A2-1b M	B-4	C-1a	C-2	C-4	D-4	E-3	E1-1a	E1-1b M	E2-1a M	E2-1b M	

STEEL COLUMN SCHEDULE NOTES:

- 1. FOR GRADE OF STRUCTURAL STEEL SEE GENERAL NOTES AND SPECIFICATION. 2. LOADS FOR COLUMNS REPRESENT THE FACTORED LOAD IN KILONEWTONS
- APPLIED AT THE BASE OF THE COLUMN AND DO NOT INCLUDE THE WEIGHT OF THE FOUNDATION. 3. BASE PLATE AND / OR CAP PLATE DIMENSION GIVEN LAST TO BE PARALLEL
- WITH COLUMN WEB. 4. REFER ALSO TO TYPICAL NOTES AND DETAIL DRAWINGS.
- 5. REFER TO STEEL COLUMN / ANCHOR ROD SCHEDULE AND TYPICAL COLUMN BASE DETAILS FOR ANCHOR RODS AND FOR COLUMN BASE PLATE SIZES.
- 6. FOR ALL COLUMNS ABUTTING MASONRY, PROVIDE ADJUSTABLE MASONRY ANCHORS AS PER TYPICAL DETAIL. SEE TYPICAL DETAIL DRAWINGS.

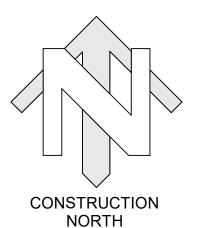
FOOTING SCHEDULE								
FOOTING FOOTING FOOTING REINF.B.E.W./H.E.E. FOOTING NUMBER LENGTH WIDTH THICKNESS U.N.O.								
F1	1700	1700	300	6-15M				
F2	1500	2500	400	7-20M				
F3	1000	1600	350	6-20M T&B TR. & 4-20M T&B LG.				

FOOTINGS SHOWN THUS ON PLAN INDICATE 300mm FOOTING PROJECTION:- REINF. W/ 15@300B TRANS. & 3-15B LONG.
FOOTINGS SHOWN THUS ON PLAN INDICATE 550mm FOOTING PROJECTION:- REINF. W/ 15@250B TRANS. & 4-15B LONG.
NOTE: TRANS. REINF. HOOKED EACH END

FOOTING PROJECTION SCHEDULE

7 4 E 7

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.





Toronto ON M2J 5A9 | Tel: (416) 635 9970 www.stephenson-eng.com | www.salasobrien.com



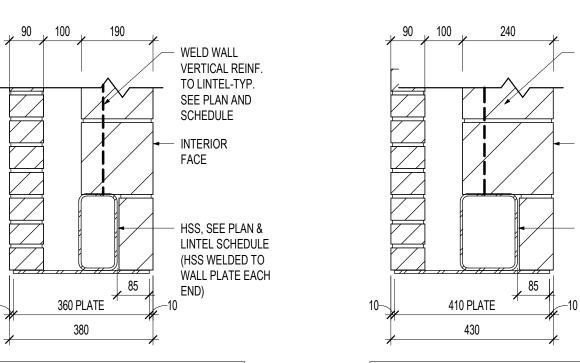


ÉÉC SAINT-MICHEL Classrooms Addition

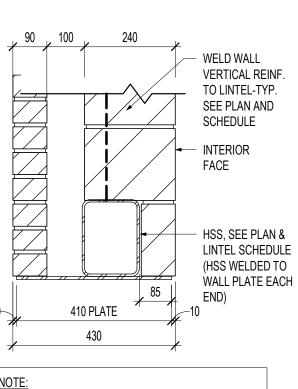
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: FOUNDATION PLAN

PROJECT NO: SCALE: 20220316 As indicated DRAWING NO: REV DRAWN: CHECKED: JG MARCH 2024



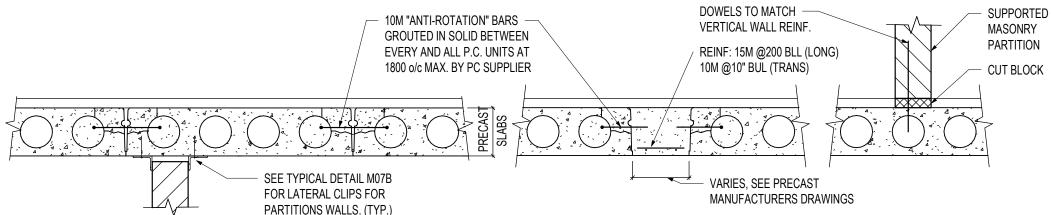
BOTTOM PLATES TO TERMINATE 10mm CLEAR OF SUPPORTING MASONRY-VERIFY WITH ARCH.



BOTTOM PLATES TO TERMINATE 10mm CLEAR OF SUPPORTING MASONRY-VERIFY WITH ARCH.

LINTEL SCHEDULE						
	REFER TO LINTEL NOTES A0 SEE ALSO	7 ON TYPICAL SPECIFICATIO				
MARK	MATERIAL	TYPE	REMARKS			
L1	HSS 203x102x6.4 + 360x8mm BOTTOM PLATE		WP1 E.E. ** SEE DL1/S1-02			
L2	HSS 203x152x6.4 + 410x8mm BOTTOM PLATE		WP2 E.E. ** SEE DL2/S1-02	LENGTHS MAY VARY		
L3	HSS 203x152x7.9 + 410x8mm TOP PLATE		WP2 ONE END ** - OTHER END CONNECT TO COL. CENTRE HSS WITH BLOCK	LENG		
L4	(2)-L102x102x6.4 + LOOSE L89x89x6.4					
Tf = 10kn.M TORSION CONNECTION ALL EXTERIOR LINTELS SUPPORTING FACE BRICK TO BE GALVANIZED						
	** WELDED TO	D LINTEL EAC	H END.			

WALL PLATE SCHEDULE (LAST DIMENSION PARALLEL TO WEB)							
MARK	MATERIAL	REMARKS					
WP1	180x15x180	(2)13Ø A.BOLTS x 150 LG.	兀				
WP2	200x15x200	(2)13Ø A.BOLTS x 150 LG.	П				



DAB1

TYPICAL DETAIL OF INFILL SLAB QUANTITY (SEE ALSO SPECIFICATION) P.C. MANUFACTURER 2 SEE ALSO FLOOR LOADING SCHEDULE.

TO SUPPLY REINFORCING BARS AND CONCRETE

SEE P.C. MANUFACTURER'S DRAWINGS FOR LOCATION AND 1 PARTITIONS ARE TO BE CONSTRUCTED PRIOR TO INSTALLATION OF TOPPING. 3. IF BLOCK PARTITIONS ARE INSTALLED AFTER TOPPING IS POURED. GENERAL CONTRACTOR TO NOTE AND COORDINATE THE AFFECT OF POST PARTITION ERECTION ON THE CAMBER OF THE CORESLABS. IN ADDITION, DOWELS MUST BE PROVIDED FROM CORESLAB INTO WALL ABOVE MIN. 10M@1200 U.N.O. IN

NOTES SCHEDULES, TYPICAL DETAILS ETC.

MASONRY CORE FILL SCHEDULE M20 MASONRY CORE FILL SCHEDULE TYPE SIZE REINF REMARKS t x 400 2-15 VERT. C2 t x 600 3-15 VERT. CONT. t x 800 4-15 VERT. C3 CONT. t x 400 x 400 4-15 VERT. CONT. t DENOTES THE WALL THICKNESS

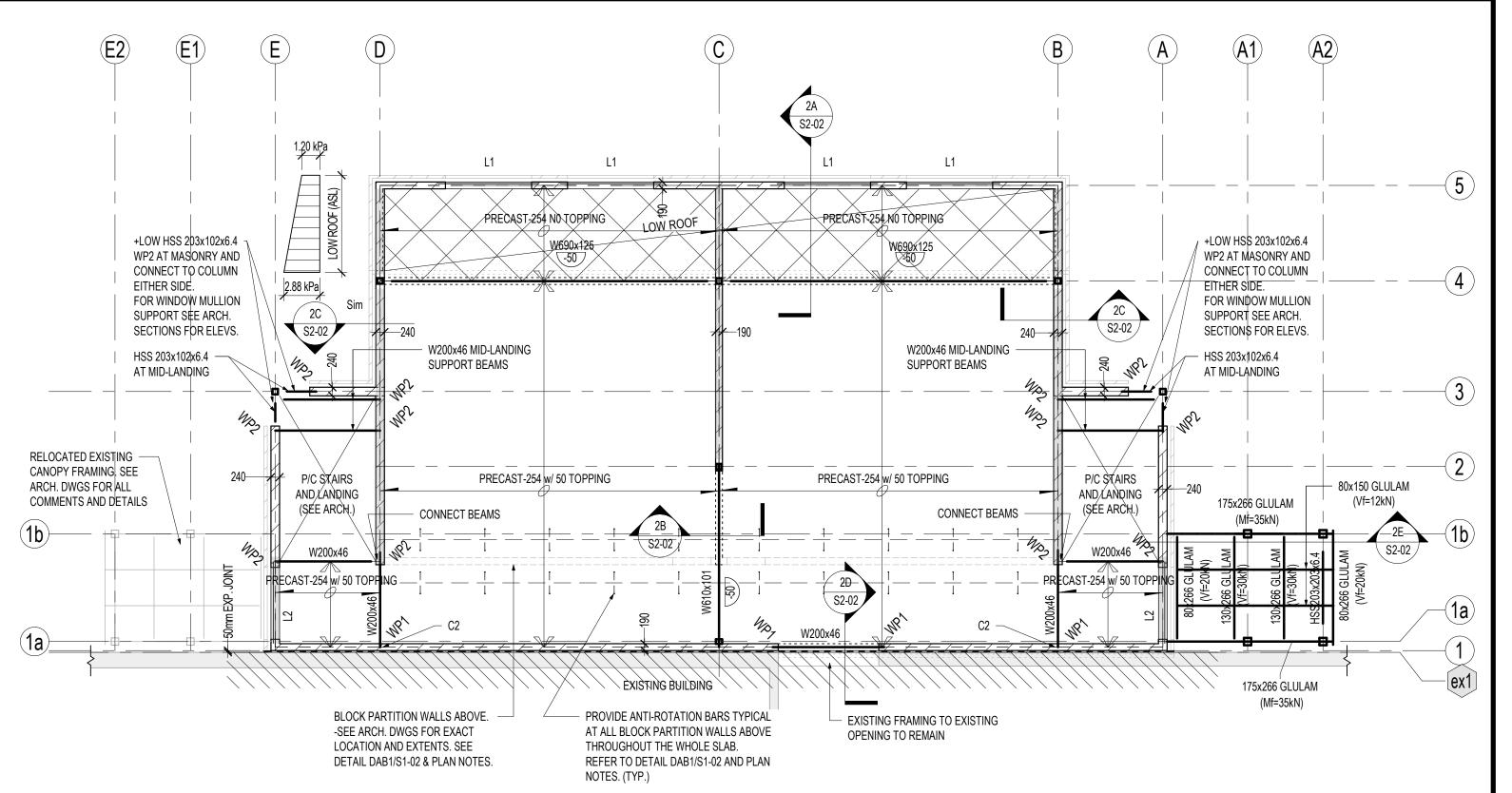
- **MASONRY CORE FILLS NOTES:** PROVIDE CORE FILLS AS NOTED ON PLAN AND PROVIDE REINFORCEMENT AS SHOWN IN SCHEDULE.
- CORE FILLS EXTEND FULL HEIGHT OF WALL, FLOOR TO FLOOR UNLESS NOTED.
- INSTALL ALL REINFORCEMENT FULL HEIGHT BETWEEN FLOORS AND GROUT CORE SOLID FULL HEIGHT BETWEEN FLOORS UNLESS NOTED. WHERE CORE FILL CONTINUES TO NEXT FLOOR ABOVE, EXTEND INDICATED VERTICAL REINFORCEMENT TO PROVIDE SPECIFIED CLASS "B" TENSION LAP SPLICE WITH REINFORCEMENT OF CORE ABOVE. WHERE MASONRY WALLS START ON TOP OF STEEL BEAMS, PROVIDE WELDABLE
- REINFORCING DOWELS TO MATCH REINFORCING NOTED IN THIS SCHEDULE, OR EQUIVALENT D2L DEFORMED BAR ANCHORS PROVIDE 15M DOWELS IN FOUNDATION WALLS FOR ALL WALL REINFORCEMENT UNLESS NOTED OTHERWISE.
- REFER TO M04 FOR LAP LENGTHS FOR VERTICAL BARS AND DOWELS. REFER TO CORE FILLS SCHEDULE FOR DETAILS AND REINFORCEMENT.
- PROVIDE CORE FILL C1 AT EACH SIDE OF OPENINGS U/N OTHERWISE NOTED ON PLANS AND/OR SECTIONS. a) PROVIDE C1 AT UNSUPPORTED ENDS OF WALLS U/N.
- b) PROVIDE C1 AT EACH SIDE OF CONTROL JOINTS U/N.
- PROVIDE CORE FILL C4 AT ALL WALL CORNERS U/N OTHERWISE IN PLANS AND/OR SECTIONS. 10. PROVIDE TITEWALL BL-A CONTROL JOINT BY BLOK-LOK OR EQUIVALENT FOR ALL VERTICAL CONTROL JOINTS IN EXTERIOR MASONRY WALLS EXCEEDING 4m IN HEIGHT.
- . 190mm MASONRY WALL REINFORCING 15M@800 O/C. 240mm MASONRY WALL REINFORCING - 15M@600 O/C.
- 2. REINFORCE ALL MASONRY SILLS, INTERIOR AND EXTERIOR, AS PER THE REINFORCING INDICATED IN THIS SCHEDULE. GROUT TOP TWO COURSES OF ALL SILLS SOLID. FULLY GROUT ALL EXTERIOR SILLS.

MARK	WALL THICKNESS	CLEAR SPAN	MATERIAL	TYPE	NOTES
ML1	190	200-550	175x8 PLATE		
ML2	190	550-1220	2-L90x90x6		
ML3	240	200-550	225x8 PLATE		
ML4	240	550-1220	2-L100x100x8		
ML5	290	200-550	275x8 PLATE		
ML6	290	550-1220	3-L90x90x6		
ML7	190 + 90	200-550	175x8 PLATE + 80x8 PLATE		
ML8	190 + 90	550-1220	2-L90x90x6 + 1-L90x90x6		1ES 1ED
ML9	240 + 90	200-550	225x8 PLATE + 80x8 PLATE		CAVITY WALLS EXTERIOR ANGLES & PLATES GALVANIZED UNLESS NOTED
ML10	240 + 90	550-1220	2-L100x100x8 + 1-L90x90x6		SAVITY V R ANGLE ZED UNL
ML11	290 + 90	200-550	275x8 PLATE + 80x8 PLATE		XTERIOI
ML12	290 + 90	550-1220	3-L90x90x6 + 1-L90x90x6		

WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ALL LINTELS WHICH OCCUR IN LOAD BEARING MASONRY WALLS, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE CORRECT SIZES AND QUANTITY OF LINTELS ARE PROVIDED

LINTELS IN NON-LOAD BEARING WALLS AND PARTITIONS ARE GENERALLY NOT SHOWN ON THE DRAWINGS. ALL SUCH LINTELS SHALL BE PROVIDED AS REQUIRED AND SHALL CONFORM TO THE NOTES & TYPICAL DETAILS ON THE STRUCTURAL DRAWINGS

PROVIDE MECHANICAL LINTELS IN ACCORDANCE WITH TYPICAL DETAILS AND NOTES FOR ALL DUCTS AND PIPES PASSING THROUGH MASONRY WALLS



SECOND FLOOR / LOW ROOF FRAMING PLAN

1. TOP OF PRECAST SLAB TO BE 50mm BELOW FINISHED FLOOR DATUM, ELEVATION 4000mm, EXCEPT AS CROSSED AND NOTED.

T.O.S = TOP OF SLAB.TOPS OF STEEL BEAMS TO BE AT UNDERSIDE OF PRECAST SLABS -254mm, EXCEPT AS SHOWN THUS ON 🛨 PLAN

REFER TO LOADING SCHEDULE ON THIS DRAWING. HOLLOWCORE SLABS SHALL BE DESIGNED TO SUPPORT THE SPECIFIED DEAD AND LIVE LOADS AND IN ADDITION SHALL SUPPORT MASONRY PARTITION LOADS. (CO-ORDINATE WITH ARCHITECTURAL DRAWINGS AND LOADING SCHEDULE).

4. HOLLOWCORE SLABS SHALL HAVE A FIRE RATING OF 2 HOURS. 5. SUBMIT DETAILS FOR ALL OPENINGS, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, TO THE STRUCTURAL

CONSULTANT FOR REVIEW. 6. LOCATIONS OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY THE MECHANICAL

CONTRACTOR BEFORE PROCEEDING 7. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

NON - LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25 mm CLEAR OF STRUCTURE. 9. WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM OR JOIST WEB. SEE WALL PLATES SCHEDULE.

10. SEE LINTEL SCHEDULE ON THIS DRAWING. 11. THE PROJECT SUPERINTENDENT MUST CONTACT THIS OFFICE 24 HOURS PRIOR TO PLACING STRUCTURAL CONCRETE FOR A REVIEW

OF PREPARATIONS. 12. SEE TYPICAL NOTES, TYPICAL DETAILS, COLUMN SCHEDULE AND ALL OTHER DRAWINGS.

13. PROVIDE A MAXIMUM 50mm BONDED, NON - COMPOSITE, TOPPING SLAB ON PRECAST HOLLOWCORE SLABS, UNLESS OTHERWISE

NOTED. TOP SURFACE IS TO BE FLAT (SEE SPECIFICATION FOR PREPARATION)

14. PARTITIONS ABOVE PRECAST HOLLOWCORE SLABS ARE TO BE CONSTRUCTED BEFORE TOPPING IS PLACED. 15. FOR CONCRETE BASE AT LOCKERS. SEE ARCHITECTURAL DRAWINGS.

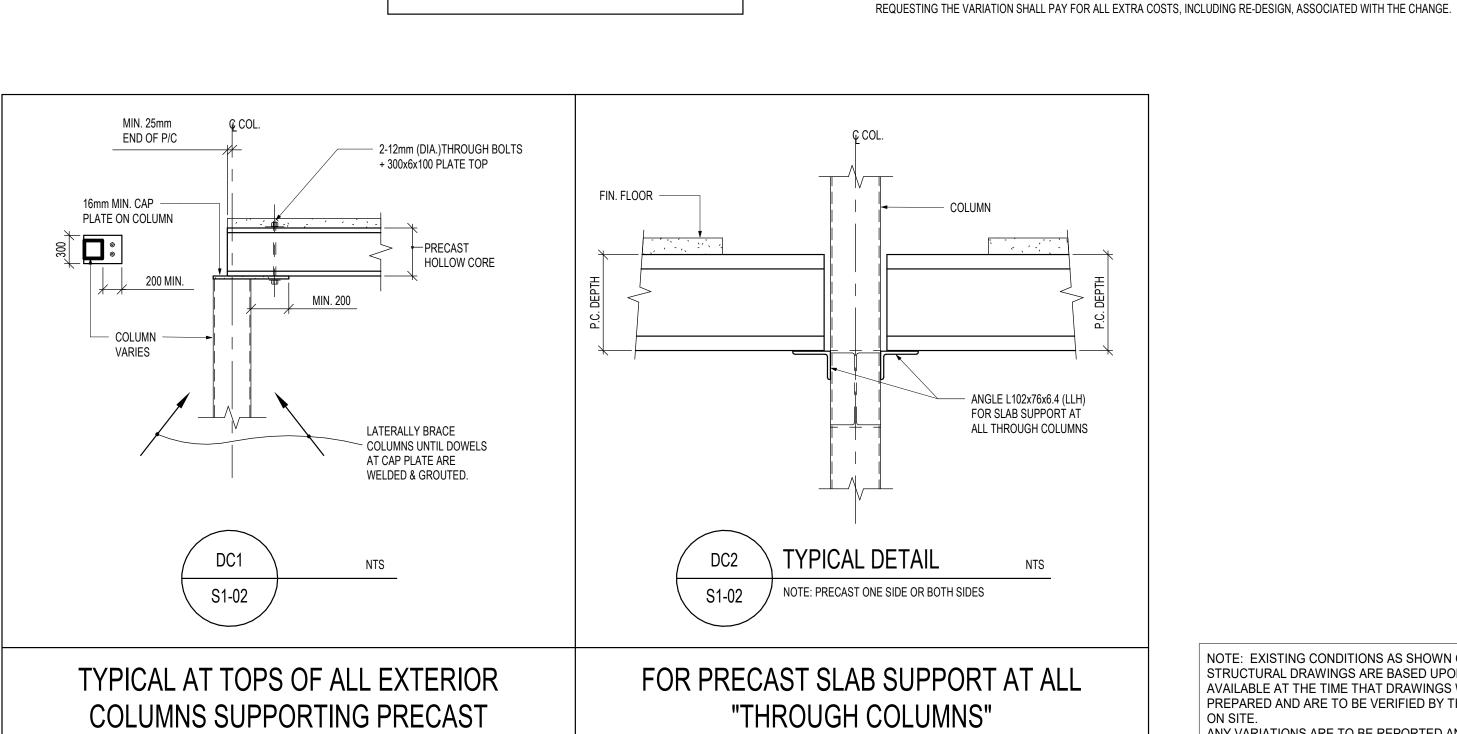
16. PROVIDE 100 mm HOUSE KEEPING PADS IN MECHANICAL ROOM (SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION)

REINF: 10m@300 EACH WAY. 17. PROVIDE MIN 100X100 CURBS AROUND ALL OPENINGS AND AT DOORS IN MECHANICAL ROOM FLOOR. REINF: 10M@300 DOWELS FROM

BASE SLAB + 1-10M CONT. (REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS).

18. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROOFING OF BEAMS AND COLUMNS.

19. REFER TO CONCRETE MIX SCHEDULE ON \$1-01. 20. IF ANY ASPECT OF THE PRECAST HOLLOWCORE SLAB CONSTRUCTION, PROPOSED BY THE CONTRACTOR FOR USE ON THIS PROJECT, VARIES FROM THAT SHOWN ON THE TENDER DRAWINGS AND THE VARIATION REQUIRES THE RE-DESIGN OF THE BASE BUILDING ELEMENTS AND/OR THE REVISION TO OR ADDITION OF MATERIALS TO ACCOMMODATE SUCH VARIANCE AND THE OWNER, THE ARCHITECT AND THE STRUCTURAL CONSULTANT ARE IN AGREEMENT WITH THE PROPOSED VARIATION, THEN THE CONTRACTOR



FLAT ROOF

(SEE SECTIONS)

SECOND FLOOR LOADING SCHEDULE

SUPERIMPOSED

DEAD LOAD (kPa)

HOLLOWCORE SLABS SHALL BE DESIGNED TO RESIST THE

(CO-ORDINATE WITH ARCHITECTURAL DRAWINGS)

140 PARTITION, 6.7kN/m AND 190 PARTITIONS, 8.5kN/m

UNIFORM LOADING ABOVE AND IN ADDITION SHALL SUPPORT

LOADING

ROOF USE

CLASSROOM

CORRIDOR / STAIRS

LOW ROOF AREA

* - AS NOTED ON SCHEDULE

MASONRY PARTITION LOADS.

WALLS SHADED AS THUS REQUIRE

LIVE LOAD (kPa)

2.40

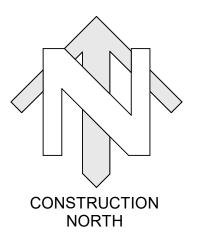
4.80

1.56 +ASL

CONT. LINTEL BLOCK BOND BEAM

NOTE: EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED AND ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE. ANY VARIATIONS ARE TO BE REPORTED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.





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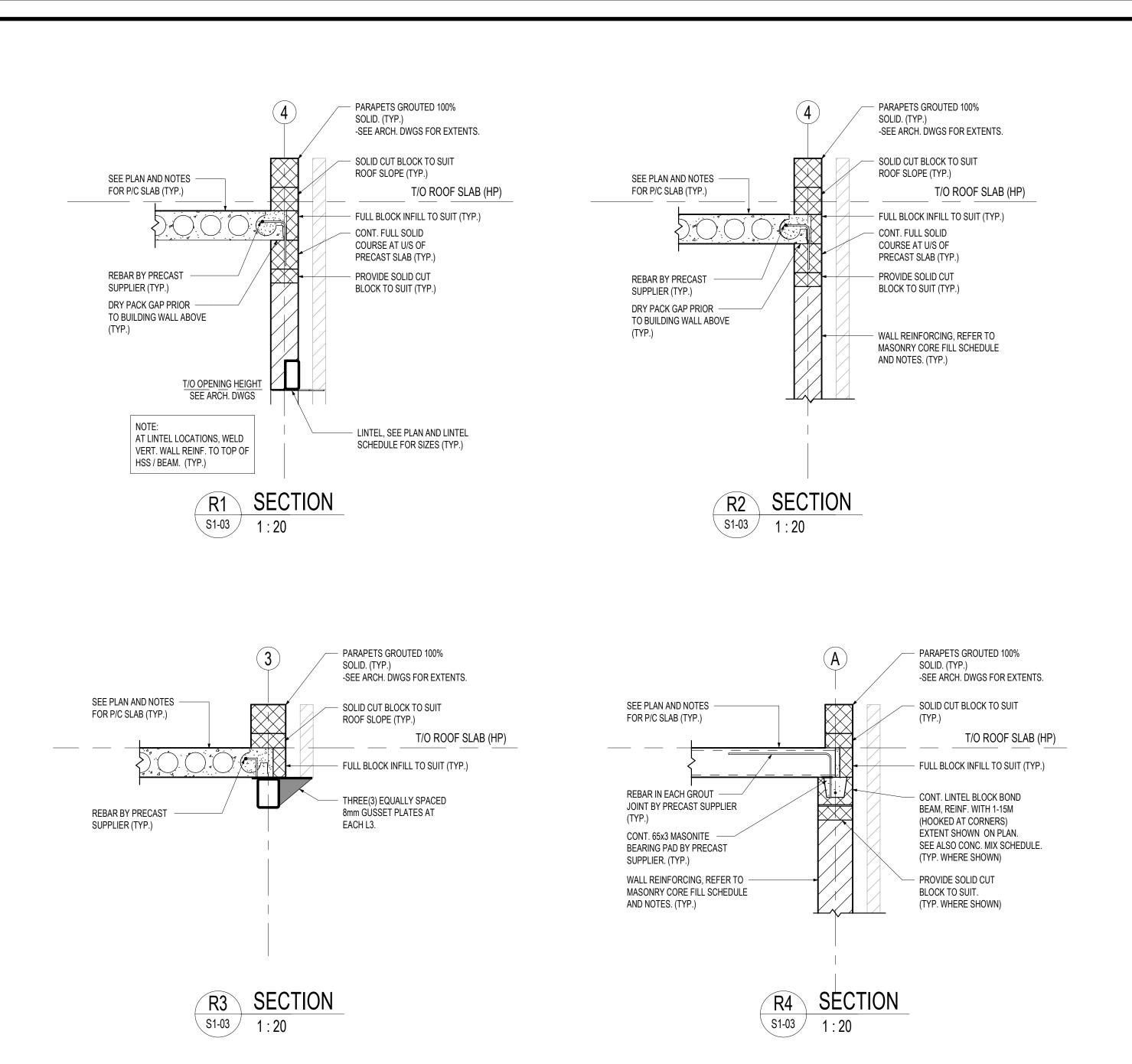
ÉÉC SAINT-MICHEL Classrooms Addition

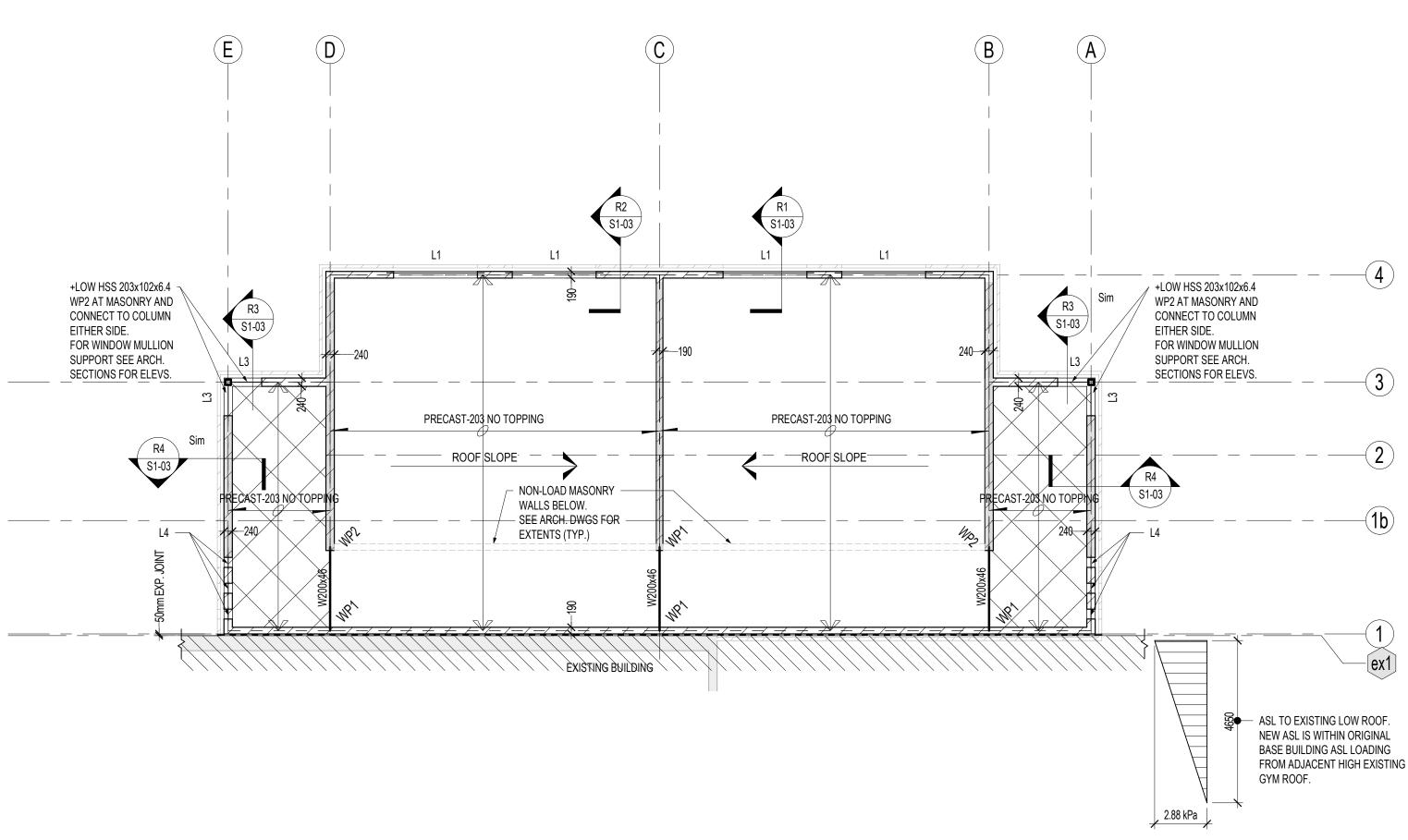
29 MEADOWVALE ROAD,

SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: SECOND FLOOR / LOW ROOF FRAMING PLAN

PROJECT NO: SCALE: 20220316 As indicated DRAWING NO: CHECKED: JG MARCH 2024





ROOF FRAMING PLAN

1 . 100

ROOF LOADING SCHEDULE

DEAD LOAD (kPa)

SNOW LOAD (kPa)

LOADING SUPERIMPOSED

IN ADDITION TO UNIFORM LOADING SHOWN, REFER TO

SNOW LOADS (ASL) AS SHOWN, AND FOR POINT LOADS

OF BRACING AND MECHANICAL EQUIPMENT.

NOTE: ROOFING ASPHALT AND GRAVEL,

ROOF PLAN FOR ADDITIONAL LOADING FOR ACCUMULATED

RIGID INSULATION = 0.42 kPa HAS BEEN INCLUDED

ROOF USE

GENERAL ROOF

- TOP OF CONCRETE SLABS AND STEEL DECK IS TO BE SLOPED TO DRAIN AS SHOWN ON ARCHITECTURAL DRAWINGS.
 TOPS OF STEEL BEAMS TO BE AT UNDERSIDE OF PRECAST SLABS EXCEPT AS NOTED. (SLOPE AS REQUIRED.)
- PRECAST SLABS TO BE DESIGNED TO SUPPORT SPECIFIED DEAD AND SNOW LOADS.
 PRECAST SLABS SHALL HAVE A FIRE RATING OF 2-HOURS.
- 5. LOCATION OF MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT LOADS ARE TO BE CONFIRMED BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS. MECHANICAL EQUIPMENT AND PIPING MUST BE HUNG FROM OWSJ PANEL POINTS AND HANGER SPACING SHALL NOT EXCEED 3.0 m.
- SUBMIT DETAILS FOR ALL OPENINGS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS TO STRUCTURAL CONSULTANT FOR REVIEW.

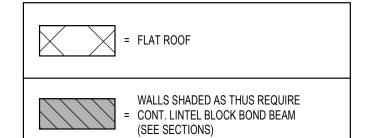
 AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND.

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- 7. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUE'S AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- NON-LOAD BEARING PARTITIONS SHALL BE A MINIMUM OF 25 mm CLEAR OF STRUCTURE.
 WALL PLATES (WP) SHALL HAVE LAST DIMENSION PARALLEL TO BEAM OR JOIST WEB, SEE SCHEDULE ON DRAWINGS.
- 10. SEE LINTEL SCHEDULE AND WALL PLATE SCHEDULE ON \$1-02.11. SEE TYPICAL NOTES, TYPICAL DETAILS, COLUMN AND FOOTING SCHEDULE AND ALL OTHER DRAWINGS.
- 12. SEE SPECIFICATION FOR GRADE OF STRUCTURAL STEEL AND STEEL DECK.





υ 4 m 0 4

THE CONTRACTOR SHALL CHECK ALL

ARCHITECTURAL, MECHANICAL AND

PROCEEDING WITH WORK.

ELECTRICAL DRAWINGS. REPORT ANY

DISCREPANCIES TO THE ENGINEER BEFORE

CONSTRUCTION NORTH

DIMENSIONS WITH THE LATEST ISSUE OF

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

DRAWING TITLE:

ROOF SECTIONS

ROOF FRAMING PLAN AND

PROJECT NO:
20220316

DRAWN:
AE

CHECKED:
JG
DATE:
MARCH 2024

SCALE:
As indicated

DRAWING NO:
REV.

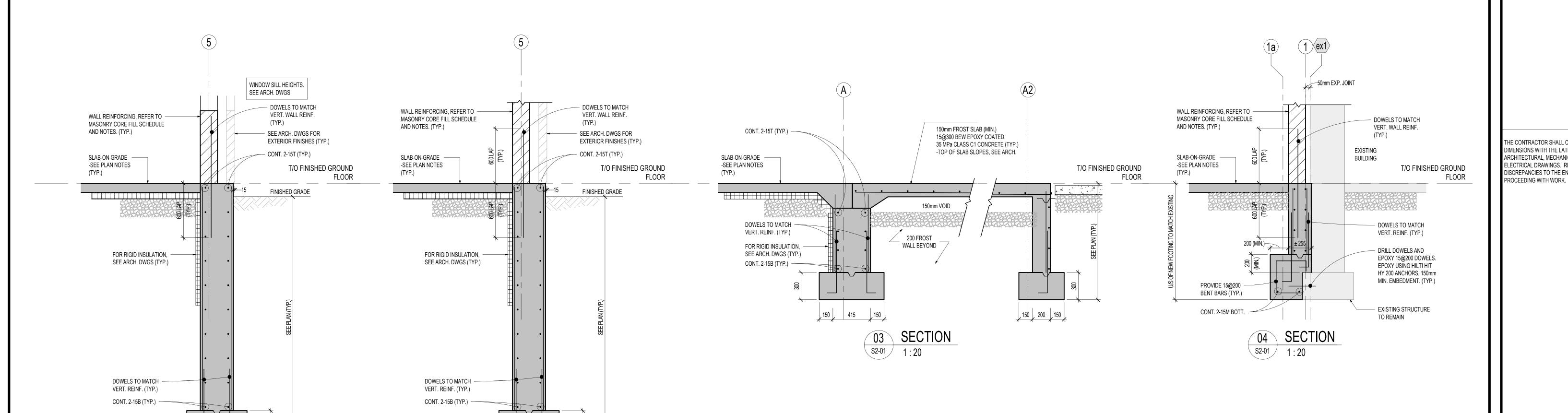
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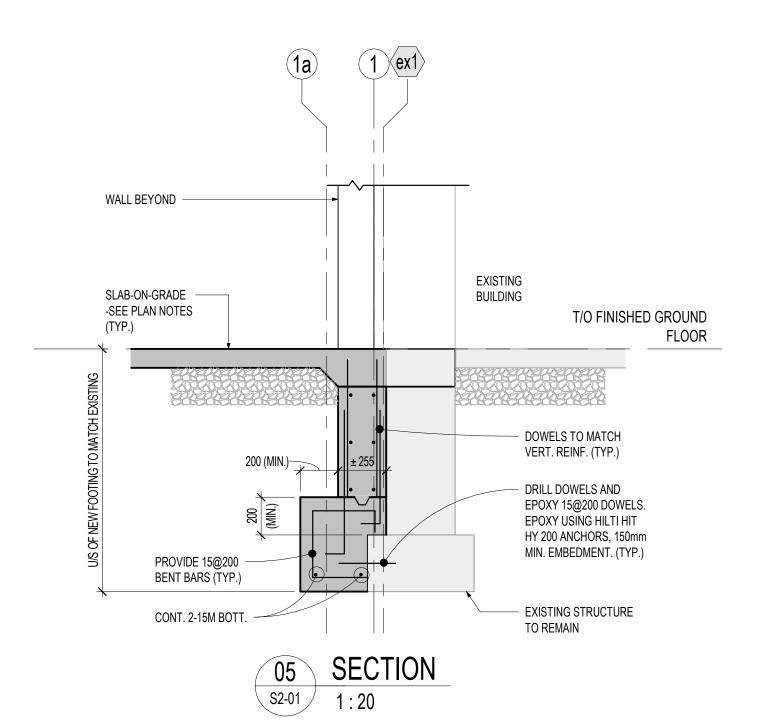
S1-03

MARCH 2024

NOTE: EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED AND ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE.
ANY VARIATIONS ARE TO BE REPORTED AND INSTRUCTIONS

RECEIVED BEFORE PROCEEDING.





SECTION

NOTE:
TYPICAL FOUNDATION WALL REINFORCING (UNLESS NOTED OTHERWISE ON SECTIONS OR SHEAR WALL ELEVATIONS) 10M @460 VEF 10M @320 HEF

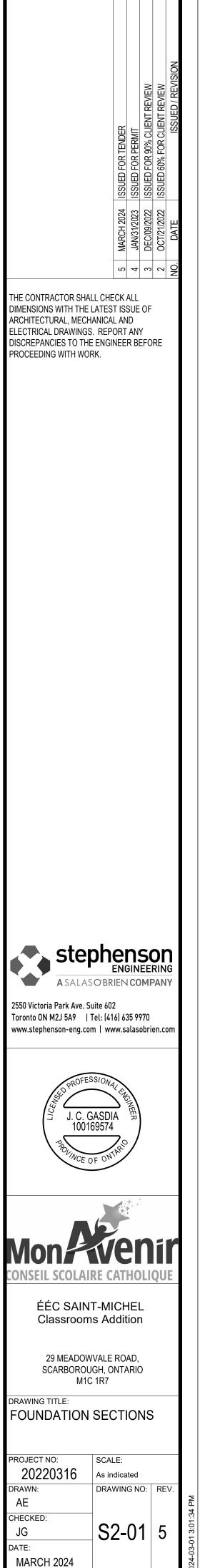
FOR 190mm/200mm WALLS: 10M @320 VERT. CENTRE OF WALL 10M @200 HORIZ. CENTRE OF WALL

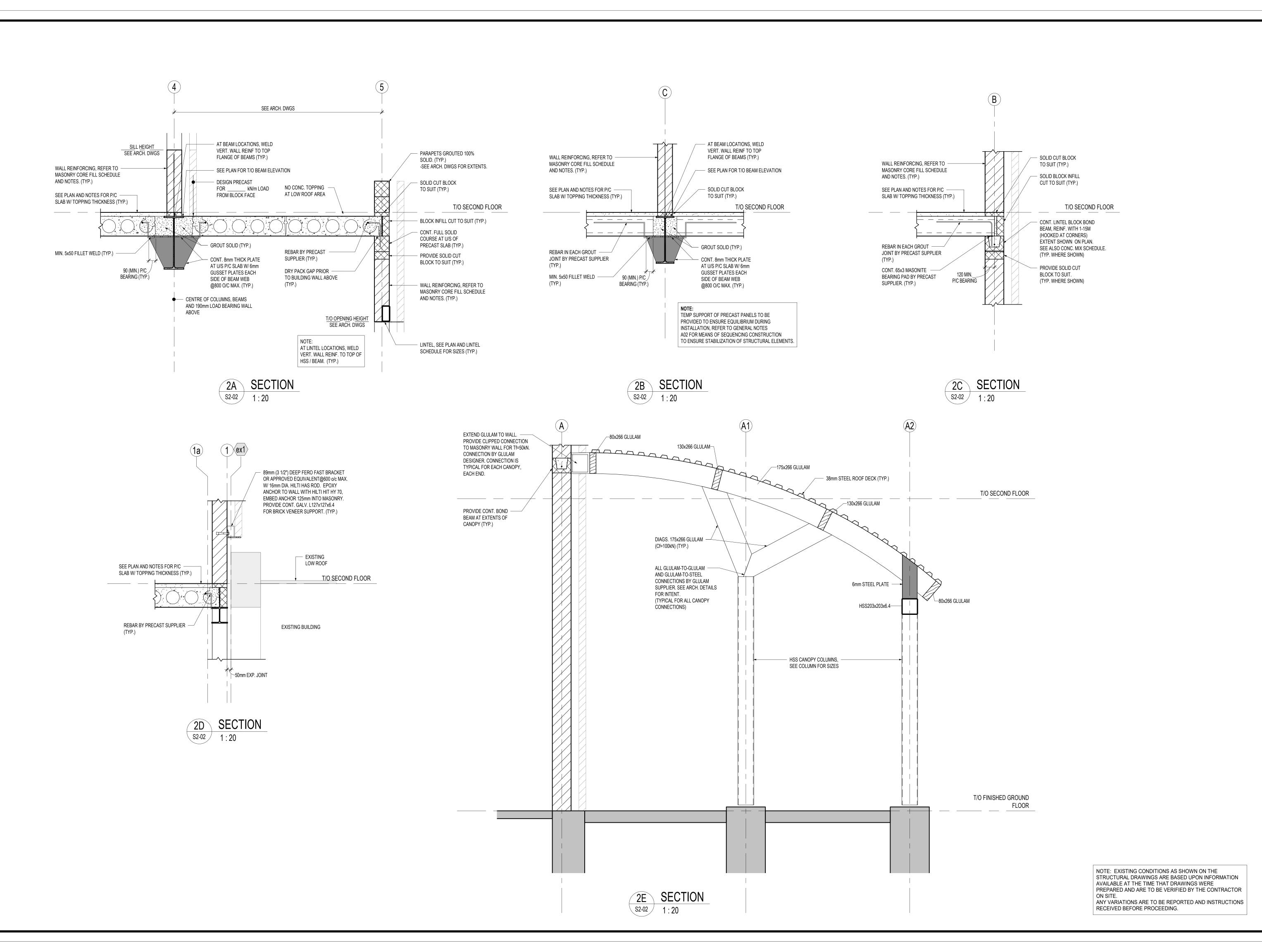
NOTE: EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED AND ARE TO BE VERIFIED BY THE CONTRACTOR ANY VARIATIONS ARE TO BE REPORTED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING.

DRAWN:

CHECKED:

JG





5 MARCH 2024 ISSUED FOR TENDER
4 JAN/31/2023 ISSUED FOR 90% CLIENT REVIEW
2 OCT/21/2022 ISSUED 60% FOR CLIENT REVIEW
NO PART

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.



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29 MEADOWVALE ROAD,

SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:
SECOND FLOOR SECTIONS

PROJECT NO:	SCALE:	
20220316	1:20	
DRAWN:	DRAWING NO:	REV.
AE		
CHECKED:]	
JG	S2-02	5
DATE:		
MARCH 2024		



2.1. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO CSA-G40.20/G40.21

2.1.1. S SHAPES, PLATES AND RODS: - GRADE 300 W

2.1.2. HSS SECTIONS: - GRADE 350W (CLASS C U/N)

2.1.3. WWF SHAPES, WT SHAPES AND W SHAPES, CHANNELS, ANGLES,: - GRADE 350W 2.2. BOLTS FOR CONNECTIONS TO CONFORM TO ASTM F3125/3125M, GRADE A325, UNLESS NOTED.

2.3. ANCHOR RODS FOR BASE PLATES, BEARING PLATES AND WELD PLATES TO CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED.

2.4. NUTS AND WASHERS TO CONFORM TO ASTM A563 AND ASTM F436.

2.5. SHEAR STUDS WHERE REQUIRED TO CONFORM TO ASTM A108, WELDING TO CONFORM TO CSA W59.

2.6. WELDING MATERIALS TO CONFORM TO CSA W48. 2.7. SURFACE PREPARATION AND PRIMER PAINT FOR STRUCTURAL STEEL MEMBERS INSIDE VAPOUR BARRIER TO CONFORM TO CISC/CPMA

1.73a OR CISC/CPMA 2.75 (IF EXPOSED TO VIEW), UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS. 2.8. HOT DIP GALVANIZING WITH A MINIMUM ZINC COATING OF 600g/sq.m UNLESS OTHERWISE SPECIFIED.

3.1. FABRICATION, HANDLING AND ERECTION TO CONFORM TO CAN/ CSA - S16. 3.2. PROVIDE A MINIMUM OF 2-12 mm (1/2") DIAMETER BY 250 (10") LONG WALL ANCHORS FOR ALL BEAM AND JOIST WALL PLATES ON

MASONRY, OR AN APPROVED EQUAL, UNLESS OTHERWISE NOTED. BEAMS AND JOIST SHOES TO BE WELDED TO BEARING PLATES.

3.3. PROVIDE ADJUSTABLE ANCHORS TO ALL STEEL TO BE BUILT INTO, ABUTTED BY, OR FACED WITH MASONRY (REFER ALSO TO TYPICAL DETAILS IF SHOWN). SPACING OF ANCHORS TO BE: FOR VERTICAL SPACING 600 (24") MAX. CENTRES

FOR HORIZONTAL SPACING 10 TIMES WALL THICKNESS* (MAX. 2000 (6'-8") CENTRES) (* NOTE, USE BACK-UP WYTHE THICKNESS ONLY, FOR CAVITY WALLS.)

3.4. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY (I.E. DOES NOT SUPPORT MASONRY) ANCHORS SHALL PERMIT DIFFERENTIAL VERTICAL MOVEMENT BETWEEN STRUCTURAL MEMBERS AND MASONRY.

3.5. PROVIDE L76X76X6.4(MIN) ANGLE SEATS FOR ALL STEEL DECK AT LOCATIONS WHERE THE CONNECTION TO SUPPORTING FRAMING IS INTERRUPTED. (EG. AT COLUMNS)

3.6. CLEAN, PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL WITH ONE COAT OF SPECIFIED PRIMER PAINT IN ACCORDANCE WITH CAN/CSA - S16, EXCEPT WHERE MEMBERS ARE TO BE ENCASED IN CONCRETE, OR TO RECEIVE SPRAY APPLIED FIRE PROOFING. FIELD " TOUCH-UP" BOLTS, WELDS, BURNED OR SCRAPED SURFACES AFTER ERECTION.

3.7. PROVIDE ALL NECESSARY TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB. BRACING SHOWN ON STRUCTURAL DRAWINGS IS PERMANENT FOR FINISHED BUILDING ONLY.

3.8. CO-ORDINATE WITH MECHANICAL AND ELECTRICAL CONSULTANTS AND SUB-TRADES WHOSE WORK MAY AFFECT DETAILING, FABRICATION AND ERECTION OF THE STEEL STRUCTURE.

3.9. TOLERANCES: VARIATION FROM PLUMB AND LEVEL EXTERIOR COLUMNS, COLUMNS AT ELEVATOR SHAFTS, AND SPANDREL BEAMS INCLUDING ANGLES1:1000 MAX. 25 mm (1/8" IN 10'-0" MAX. 1")

.....1:500 (1/4" IN 10'-0") 3.10. NO HOLES OTHER THAN THOSE SHOWN ON REVIEWED SHOP DRAWINGS SHALL BE MADE IN ANY STEEL MEMBER WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL CONSULTANT.

 QUALITY CONTROL 4.1. AN INDEPENDENT INSPECTION AND TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL AND STEEL DECK IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES, AND GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND

4.2 SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.

100% SOLID:TYPE S / 15 / A / M. 2.1.2. FOR INTERIOR ABOVE GRADE WALLS USE EITHER:

2.1.2.1. LIGHTWEIGHT LOAD BEARING BLOCKS: STANDARD HOLLOW:TYPE H / 15 / C / M. 75% AND 100% SOLID:TYPE S / 15 / C / M. 2.1.2.2. ULTRA LIGHT (OR EQUIVELANT) BLOCKS: STANDARD HOLLOW:TYPE H / 15 / D / M.

(REFER TO ARCHITECTURAL DRAWINGS AND SCHEDULES FOR LOCATIONS AND TYPES).

2.2. CLAY BRICKS: TO CONFORM TO ONE OR MORE OF CSA STANDARDS A82.(SERIES) SEE ARCHITECTURAL DRAWINGS AND / OR SPECIFICATIONS FOR TYPES AND STYLES OF BRICKS REQUIRED. UNLESS OTHERWISE NOTED, THE MINIMUM COMPRESSIVE STRENGTH (BRICK FLATWISE) GROSS AREA SHALL BE 20 MPa.

2.3. MORTAR: TO CONFORM TO CSA A179

FOR LAYING ALL LOAD BEARING CONCRETE BLOCKSUSE TYPE "S" MORTAR UNLESS NOTED. FOR LAYING ALL CLAY BRICKSUSE TYPE "N" MORTAR UNLESS NOTED.

2.4. MASONRY GROUT:

TO CONFORM TO CSA A179. THE SLUMP SHALL BE 200mm TO 250mm (8"TO10") AND THE MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR "FINE" GROUT SHALL BE 15MPa.

2.5. MASONRY CONNECTORS (ANCHORS, FASTENERS AND TIES): SHALL CONFORM TO CSA A370, AND BE INSTALLED TO COMPLY WITH CSA A371.

SPACING, STRENGTH AND GALVANIZING OF STRIP TIES, DOVETAIL ANCHORS, BAR ANCHORS, ROD ANCHORS, STRAP ANCHORS, WALL AND

PARTITION ANCHORS SHALL COMPLY WITH CSA A370. 2.6. HORIZONTAL JOINT REINFORCEMENT FOR ALL MASONRY WALLS:

THE FOLLOWING ARE MINIMUM REQUIREMENTS: 2.6.1. CONFORM TO CSA STANDARDS A370 AND A371.

2.6.2. REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER" TYPE, PREFABRICATED WITH 3.66mm DIAMETER (9 GAUGE)

I ONGITUDINAL AND CROSS WIRES. 2.6.3. SPACING:- PROVIDE REINFORCING IN THE TOP COURSE IMMEDIATELY BELOW FLOOR AND ROOF BEARING LEVELS AND THE FIRST TWO COURSES ABOVE AND BELOW EVERY WALL OPENING. THE REINFORCING SHALL EXTEND 600mm (24") BEYOND SUCH OPENINGS. FOR THE

REMAINDER OF WALLS, THE VERTICAL SPACING SHALL NOT EXCEED 400mm (16"). 2.6.4. OVERLAP SPLICES: SHALL BE A MIN. OF 150mm (6") FOR KNURLED WIRE AND 300mm (12") FOR PLAIN WIRE.

SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATION FOR DETAILS

LAPS SHALL BE STAGGERED A MINIMUM OF 750mm (30") FROM COURSE TO COURSE. REINFORCING SHALL NOT PASS THROUGH A VERTICAL CONTROL JOINT UNLESS OTHERWISE SHOWN. 2.6.5. CORROSION RESISTANCE:

JOINT REINFORCING FOR ALL WALLS IN CONTACT WITH SOIL, EXTERIOR WALLS AND WALLS IN A MOIST ENVIRONMENT SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION TO ASTM A153,458 gm/sq.meter (1.5 oz. / sq. foot). 2.6.6. COMPOSITE AND CAVITY WALLS:

WHERE COURSING OF WYTHES DO NOT ALIGN OF WHERE IT IS DESIRABLE AND PERMITTED TO BUILD ONE WYTHE BEFORE THE OTHER, REINFORCING SHALL BE AN APPROVED ADJUSTABLE TYPE WITH A BOX OR EYE SECTION WHICH EXTENDS INTO THE COLLAR JOINT OR CAVITY AND RESTRAINS THE TRANSVERSE MOVEMENT OF THE TWO WYTHES. FOR CAVITY WALLS WITH RIGID INSULATION, EXTENSION SHALL BE DESIGNED TO HOLD THE INSULATION IN PLACE BY USE OF PLASTIC WEDGES OR APPROVED EQUAL. GALVANIZED HOOK STYLE "BOX TIES" OR "PIN-TIES" SHALL EXTEND INTO THE FACE WYTHE TO COMPLETE THE ASSEMBLY.

2.6.7. PROVIDE ALL PREFABRICATED CORNER AND TEE SECTIONS. 2.7. COMPOSITE WALLS:- SHALL HAVE THE VERTICAL COLLAR JOINTS BETWEEN WYTHES COMPLETELY FILLED WITH MORTAR OR GROUT. 2.8. BOND BEAMS:- MADE FROM LINTEL BLOCKS, OR HALF WEB BLOCKS, WHERE SHOWN ON STRUCTURAL DRAWING SHALL CONFORM TO CSA A371. 2.9. GROUTING:- BY FILLING VOIDS OF HOLLOW UNITS AND REINFORCED HOLLOW UNITS SHALL CONFORM TO CSA A179 (MORTAR IS NOT ACCEPTABLE). 2.10. FXPANSION AND CONTROL JOINTS:

(16" x 8"), SYMMETRICAL UNDER BEARING POINT.

3.1.4. PROVIDE A MINIMUM OF ONE CONTINUOUS COURSE 200mm (8") OF SOLID OR GROUTED VOID BLOCKS OR BRICKS LAID IN MORTAR AT THE TOP COURSE IMMEDIATELY BELOW ALL FLOOR AND ROOF BEARING LEVELS. 3.2. TOLERANCES:

UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS AND / OR SPECIFICATION, SHALL CONFORM TO CSA A371. 3.3. COLD WEATHER CONSTRUCTION:- REQUIREMENTS AND PROTECTION SHALL CONFORM TO CSA A371 AND UNDER NO CIRCUMSTANCES SHALL MASONRY CONSTRUCTION BE PERMITTED WHEN THE AIR TEMPERATURE FALLS BELOW -12°C.

QUALITY CONTROL 4.1. WHEN REQUESTED SAMPLING AND TESTING SHALL CONFORM TO CSA STANDARDS S304.1 AND ASTM C140. REFER ALSO TO GENERAL NOTES.

LINTEL NOTES

REFER ALSO TO TYPICAL DETAILS.

UNLESS OTHERWISE SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS, PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS, AS FOLLOWS: FOR OPENINGS UP TO 1200 mm (4'-0") CLEAR;

1.1. ONE ANGLE 90 x 90 x 6 (3 1/2" x 3 1/2" x 1/4") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.

1.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-10M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF. FOR OPENINGS FROM 1200mm (4'-0") CLEAR TO 1800mm (6'-0") CLEAR:

2.1. ONE ANGLE 125 x 90 x 8 LONG LEG VERTICAL (5"x 3 1/2" x 5/16") FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.

2.2. 200mm (8") DEEP MASONRY LINTEL BLOCK REINFORCED WITH 1-15M BOTTOM FOR EACH 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.

ALL LINTELS TO BEAR 150mm (6") MINIMUM AT EACH END ON SOLID MASONRY, UNLESS SHOWN OTHERWISE. PAIRS OF LINTEL ANGLES ARE TO BE BOLTED OR WELDED TOGETHER, PRIOR TO SHIPMENT, AT MAXIMUM 450mm (18") CENTRES. MASONRY LINTEL BLOCKS MAY ONLY BE USED IN LOAD-BEARING WALLS WITH PERMISSION AND MUST BE FILLED WITH 20 MPa CONCRETE. MORTAR IS

NOT ACCEPTABLE AND WILL BE REJECTED. STEEL LINTELS ARE TO BE SUPPLIED BY STEEL CONTRACTOR BUT PLACED BY GENERAL CONTRACTOR OR MASONRY SUB-CONTRACTOR. STEEL CONTRACTOR TO SUPPLY ALL NECESSARY DIRECTIONS REQUIRED FOR PLACING STEEL LINTELS.

WHILE EVERY EFFORT HAS BEEN MADE TO SHOW ON THE STRUCTURAL DRAWINGS EACH AND EVERY LINTEL OVER DOORS, MECHANICAL AND ELECTRICAL SERVICES, RECESSES AND POCKETS ETC., THROUGH LOAD-BEARING MASONRY WALLS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE AND SUPPLY ALL LINTELS REQUIRED THROUGH ALL WALLS (INCLUDING NON-LOAD BEARING WALLS) THROUGHOUT THE PROJECT. UNLESS OTHERWISE DIRECTED, LINTELS SHALL CONFORM TO THE ABOVE REQUIREMENTS.

SHORE FLOORS AS REQUIRED TO SUPPORT CRANES, HOISTS AND OTHER CONSTRUCTION EQUIPMENT

8. CONFORM TO ALL THE APPLICABLE CODES AND BYLAWS CONCERNING SAFETY, NOISE AND VIBRATIONS.

DO NOT CUT CONCRETE REINFORCEMENT UNLESS REVIEWED AND APPROVED BY THE CONSULTANT. 10. PERFORM CONCRETE SCANS (SEE NOTE #13 BELOW) AND MODIFY THE LAYOUT OF NEW THROUGH BOLTS, DRILLED ANCHORS AND OTHER ANCHORING DEVICES AS REQUIRED TO AVOID DAMAGING EXISTING CONCRETE REINFORCEMENT.

11. UNLESS NOTED OTHERWISE, ALL DOWELS ARE TO BE EPOXIED INTO THE EXISTING STRUCTURE USING HILTI HIT RE-500 SYSTEM ADHESIVE SYSTEM, OR APPROVED ALTERNATIVE.

12. CUTTING OPENINGS AND HOLES IN EXISTING STRUCTURES (A) PRIOR TO CUTTING AND CORING ANY OPENINGS IN THE EXISTING BUILDING, PROVIDE THE CONSULTANT WITH A SLEEVING

EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING MUST ALSO BE SHOWN. (B) UNLESS SPECIFICALLY NOTED OTHERWISE, LOCATE EXISTING REINFORCEMENT AND ANY EMBEDDED SERVICES BY AN APPROPRIATE CONCRETE SCANNING METHOD (SEE NOTE #13)

DRAWINGS INDICATING THE SIZE AND LOCATION OF THE PROPOSED NEW OPENINGS RELATIVE TO THE EXISTING GRID LINES.

(C) AFTER ALL THE EXISTING REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY THE CONSULTANT WHO WILL REVIEW AND APPROVE THE PROPOSED OPENING/HOLE LOCATIONS PRIOR TO CUTTING/DRILLING. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATIONS AS DIRECTED BY THE CONSULTANT.

(D) CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25MM. DO NOT CUT EXISTING REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.

(E) WHERE RECTANGULAR OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING A 100 MM DIAMETER CORE DRILL OR DRILL A

SERIES OF HOLES TO PREVENT OVER CUTTING OF THE CORNERS. (F) IN ANY AREAS WHERE THE CONSULTANT PERMITS THE CUTTING OF EXISTING REINFORCEMENT, THE CONTRACTOR SHALL EXAMINE THE CORE/OPENING AFTER DRILLING/CUTTING TO THE DETERMINE THE SIZE, COVER AND ORIENTATION OF ANY REINFORCEMENT

THAT WAS CUT. THE CONTRACTOR IS TO MARK THIS INFORMATION ON THE SLEEVING DRAWING AND FORWARD A COPY OF IT TO THE CONSULTANT FOR HIS RECORDS. 13. CONCRETE SCANS

(A) LOCATE EXISTING CONCRETE REINFORCEMENT USING SUITABLE SCANNING DEVICE AS AUTHORIZED BY PROPERTY MANAGER (I.E. X-RAYS, GROUND PENETRATION RADAR (GPR), LOCAL CHIPPING OF SLAB - ONLY WHERE APPROVED BY THE STRUCTURAL CONSULTANT, ETC)

(B) GPR SCANNING MUST BE DONE BY TRAINED TECHNICIANS WITH AT LEAST 5 YEARS OF EXPERIENCE AS SUCH. (C) GPR SCANNING DEVICES MUST BE CAPABLE OF ACCURATELY LOCATING REBAR IN A CONCRETE SLAB TO A MINIMUM DEPTH OF 300 mm, WITHIN A HORIZONTAL TOLERANCE OF +- 25 mm AND A VERTICAL (DEPTH) TOLERANCE OF THE LARGER OF +-25 mm OR +- 15% OF THE REBAR

(D) THE REVIEW OF REBAR SCANS OR X-RAYS BY THE STRUCTURAL CONSULTANT IS LIMITED TO THE LOCATION OF THE PROPOSED CORES OR DRILLED HOLES THROUGH THE EXISTING STRUCTURE ONLY, BASED ON THE ASSUMPTION THAT THE X-RAY OR SCAN RESULTS ARE

ACCURATE. STEPHENSON ENGINEERING LTD. TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE X-RAY OR SCAN RESULTS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.



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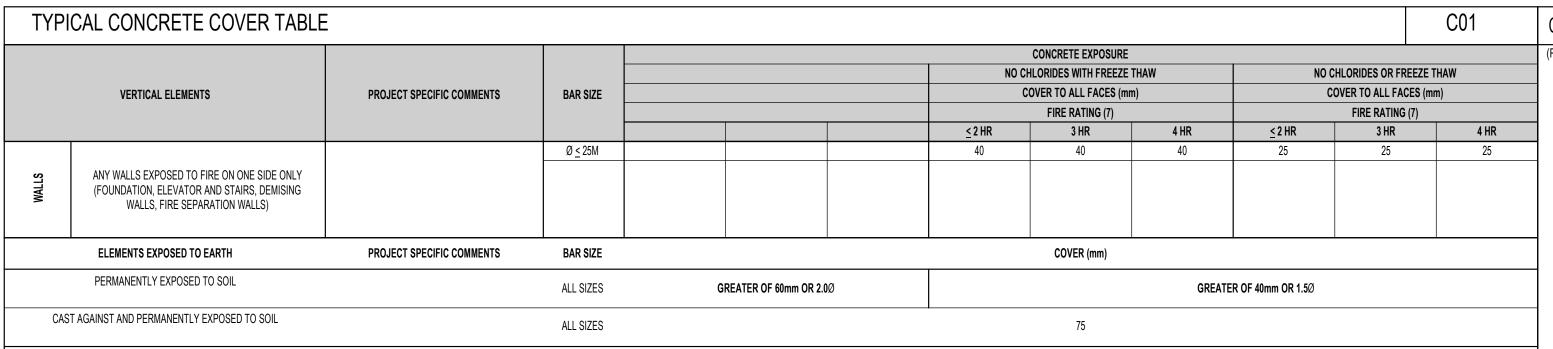
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD. SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: GENERAL NOTES

ROJECT NO: SCALE: 20220316 DRAWING NO: RE HECKED

MARCH 2024



- TABLE NOTES

 1. CONCRETE COVER SHALL BE MEASURED FROM THE DEEPEST POINT OF TEXTURED CONCRETE SURFACE TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES, STIRRUPS AND MAIN BARS.
- FOR FIRE RATING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS

COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS Fy = 400 MPa	C02A	TENSION DEVELOPMENT AND LAP SPLICE LENGTHS Fy = 400 MPa	C02B
NOTES 1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS CLS - COMPRESSION LAP SPLICE CDL - COMPRESSION DEVELOPMENT LENGTH HEL - HOOK EMBEDMENT LENGTH		NOTES 1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOW TLS - TENSION LAP SPLICE TDL - TENSION DEVELOPMENT LENGTH	

COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

CLS: COMPRESSION LAP SPLICE LENGTH (mm)

10M 15M 20M 25M 30M 35M 45M 55M 300 440 590 730 880 1030 NOT PERMITTED	UNCOATED BLACK BAR									
300 440 590 730 880 1030 NOT PERMITTED	10M	15M	20M	25M	30M	35M	45M	55M		
	300	440	590	730	880	1030	NOT PER	RMITTED		

CDL: COMPRESSION DEVELOPMENT LENGTH (mm)

f-1	UNCOATED BLACK BAR										
fc'	10M	15M	20M	25M	30M	35M	45M	55M			
20MPa	250	340	420	540	640	770	940	1210			
25MPa	220	310	370	600	570	690	840	1080			
30MPa	200	280	340	440	530	630	770	990			
35MPa	200	280	340	440	530	630	770	990			
40MPa	200	280	340	440	530	630	770	990			
> 40 MPa		SEE MINIMUM VALUES FOR fc = 40 MPa									

1. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED:

a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)

2. FOR EMBEDMENTS ENCLOSED IN SPIRALS, MULTIPLY BY 0.75, BUT NOT LESS THAN 200mm. HEL: MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD HOOK (mm)

		ı	JNCOATED	RI ACK BAR				
fc'	10M	15M	20M	25M	30M	35M	45M	55M
20MPa	220	340	450	560	670	780	1010	1230
25MPa	200	300	400	500	600	700	900	1100
30MPa	180	270	370	460	550	640	830	1010
35MPa	170	250	340	420	510	590	770	930
40MPa	160	240	320	400	470	550	720	870
45MPa	150	220	300	370	450	520	680	820
50MPa	150	210	280	350	420	490	640	780
55MPa	150	200	270	340	400	470	610	750

- 1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCREASED:
- a. MULTIPLY BY 1.2 (WHEN CLEAR COVER GREATER THAN 3 X BAR DIAMETER AND CLEAR SPACING GREATER THAN 6 X BAR DIAMETER) b. MULTIPLY BY 1.5 (WHEN COVER OR SPACING ARE LESS THAN ABOVE)
- 2. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES: a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE)
- b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE)

MORE THAN 3 TIMES THE BAR DIAMETER.

- 3. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.7 (BUT NOT LESS THAN 150mm) WHERE THE SIDE COVER (NORMAL TO THE PLANE OF THE HOOK) IS AT LEAST 60mm, AND FOR 90° HOOKS WHERE COVER ON THE BAR EXTENSION BEYOND THE HOOK
- IS AT LEAST 50mm.
- 4. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.8 (BUT NOT LESS THAN 150mm) WHERE THE HOOK IS ENCLOSED WITHIN AT LEAST THREE(3) TIES OR STIRRUPS SPACED ALONG A LENGTH EQUAL TO THE INSIDE DIAMETER OF THE HOOK AT A SPACING NOT

	UNCOATED BLACK BAR											
	10	М	15	15M		20M		25M		М	35M	
fc'	Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom
20MPa	420	330	630	490	840	650	1310	1010	1570	1210	1840	1410
25MPa	380	300	570	440	750	580	1170	900	1410	1080	1640	1260
30MPa	350	300	520	400	690	530	1070	830	1290	990	1500	1160
35MPa	320	300	480	370	640	490	990	770	1190	920	1390	1070
40MPa	300	300	450	350	600	460	930	720	1110	860	1300	1000
45MPa	300	300	420	330	560	430	880	680	1050	810	1230	940
50MPa	300	300	400	310	530	410	830	640	1000	770	1160	900
55MPa	300	300	380	300	510	390	790	610	950	730	1110	850
60MPa	300	300	370	300	490	380	760	590	910	700	1060	820
6/MPa	300	300	360	300	470	360	7/10	570	880	680	1030	790

310 300 460 360 610 470 960 740 1150 880 1340

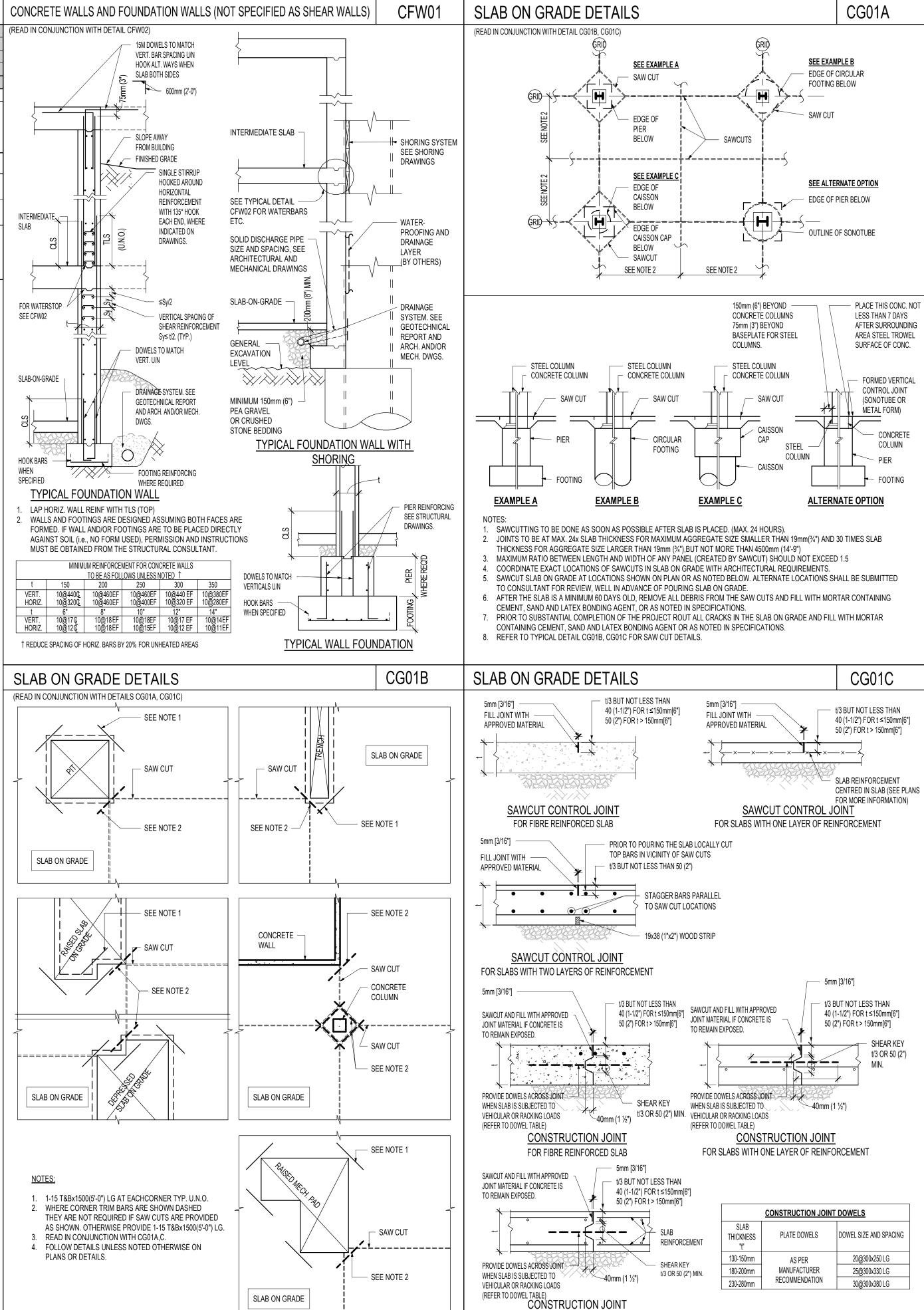
TENSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa)

TLS: TENSION LAP SPLICE LENGTH (CLASS B) (mm)

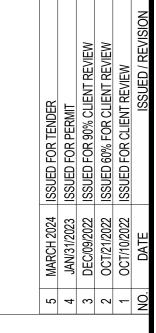
1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCRESED:

TDL: TENSION DEVELOPMENT LENGTH (mm) CLASS "A" LAP SPLICE

- a. MULTIPLY BY 1.2 (WHEN CLEAR COVER GREATER THAN 3 X BAR DIAMETER AND CLEAR SPACING GREATER THAN 6 X BAR DIAMETER) b. MULTIPLY BY 1.5 (WHEN COVER OR SPACING ARE LESS THAN ABOVE)
- 2. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES: a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE)
- b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE)
- 3. IF BUNDLED BARS ARE USED THE VAULES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.1 (TWO BAR BUNDLES)
- b. MULTIPLY BY 1.2 (THREE BAR BUNDLES)
- c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)



FOR SLABS WITH TWO LAYERS OF REINFORCEMENT



THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.



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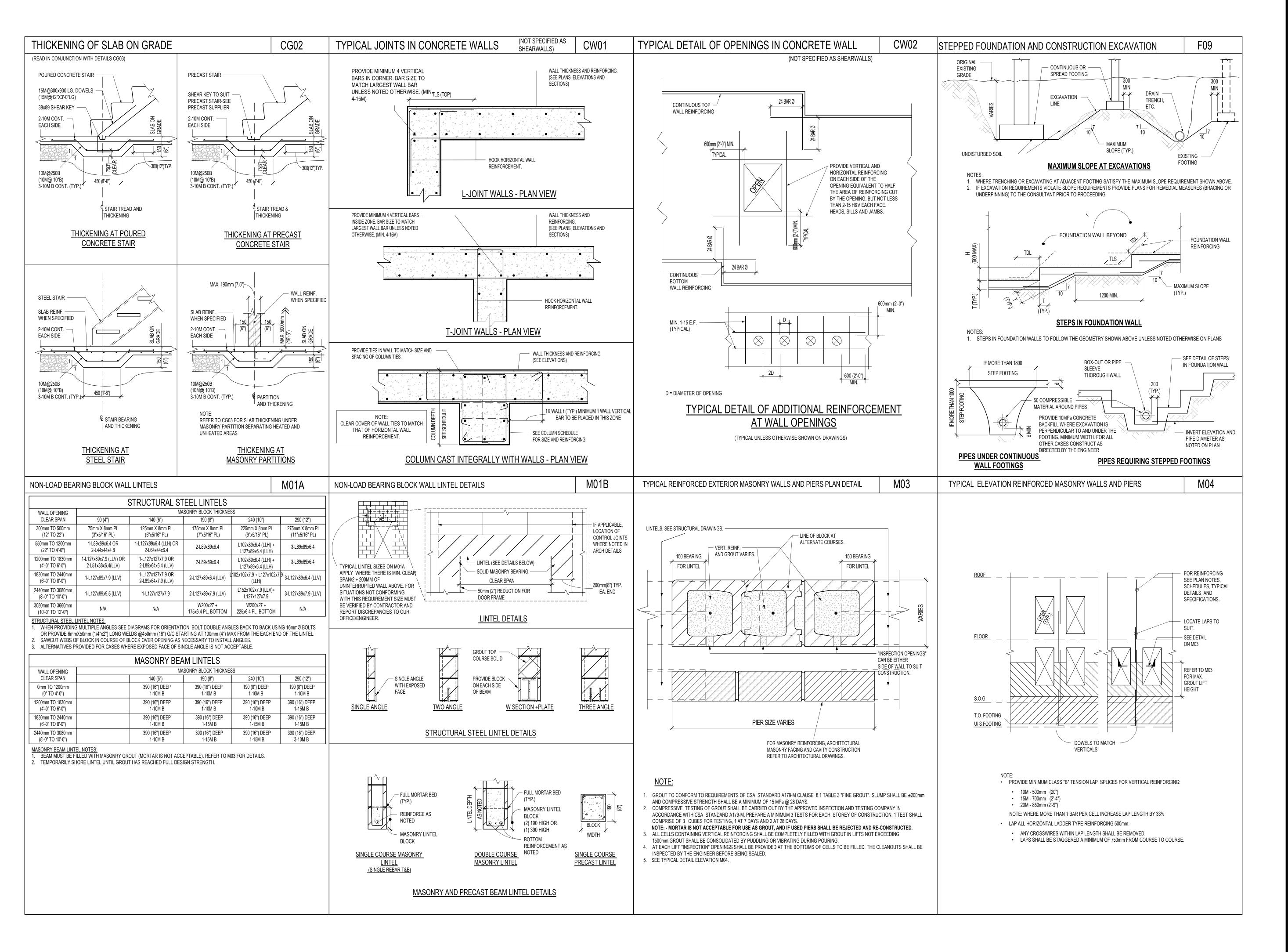


ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: TYPICAL DETAILS

PROJECT NO: SCALE: 20220316 1:1 DRAWN: DRAWING NO: RE CHECKED: JG MARCH 2024



5 MARCH 2024 ISSUED FOR TENDER
4 JAN/31/2023 ISSUED FOR PERMIT
3 DEC/09/2022 ISSUED FOR 90% CLIENT REVIEW
2 OCT/21/2022 ISSUED 60% FOR CLIENT REVIEW
1 OCT/10/2022 ISSUED FOR CLIENT REVIEW

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DRAWING TITLE:
TYPICAL DETAILS

PROJECT NO: SCALE: 1:1

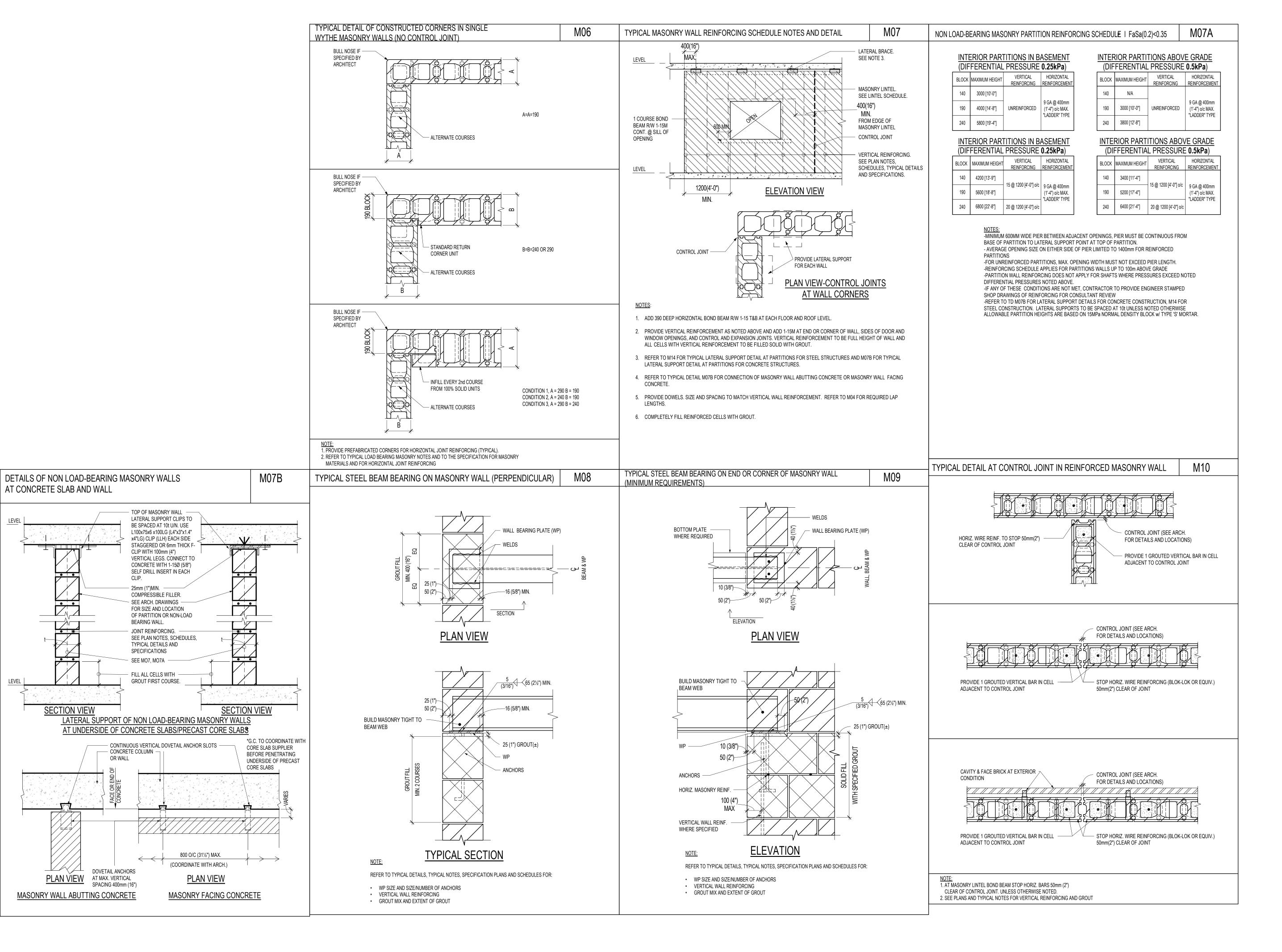
DRAWN: AE

CHECKED: JG

DATE: MARCH 2024

SCALE: 1:1

DRAWING NO: REV. 53-03



AT CONCRETE SLAB AND WALL

SECTION VIEW

PLAN VIEW AT MAX. VERTICAL SPACING 400mm (16

MASONRY WALL ABUTTING CONCRETE

OR WALL

2 2 3 4 2

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.

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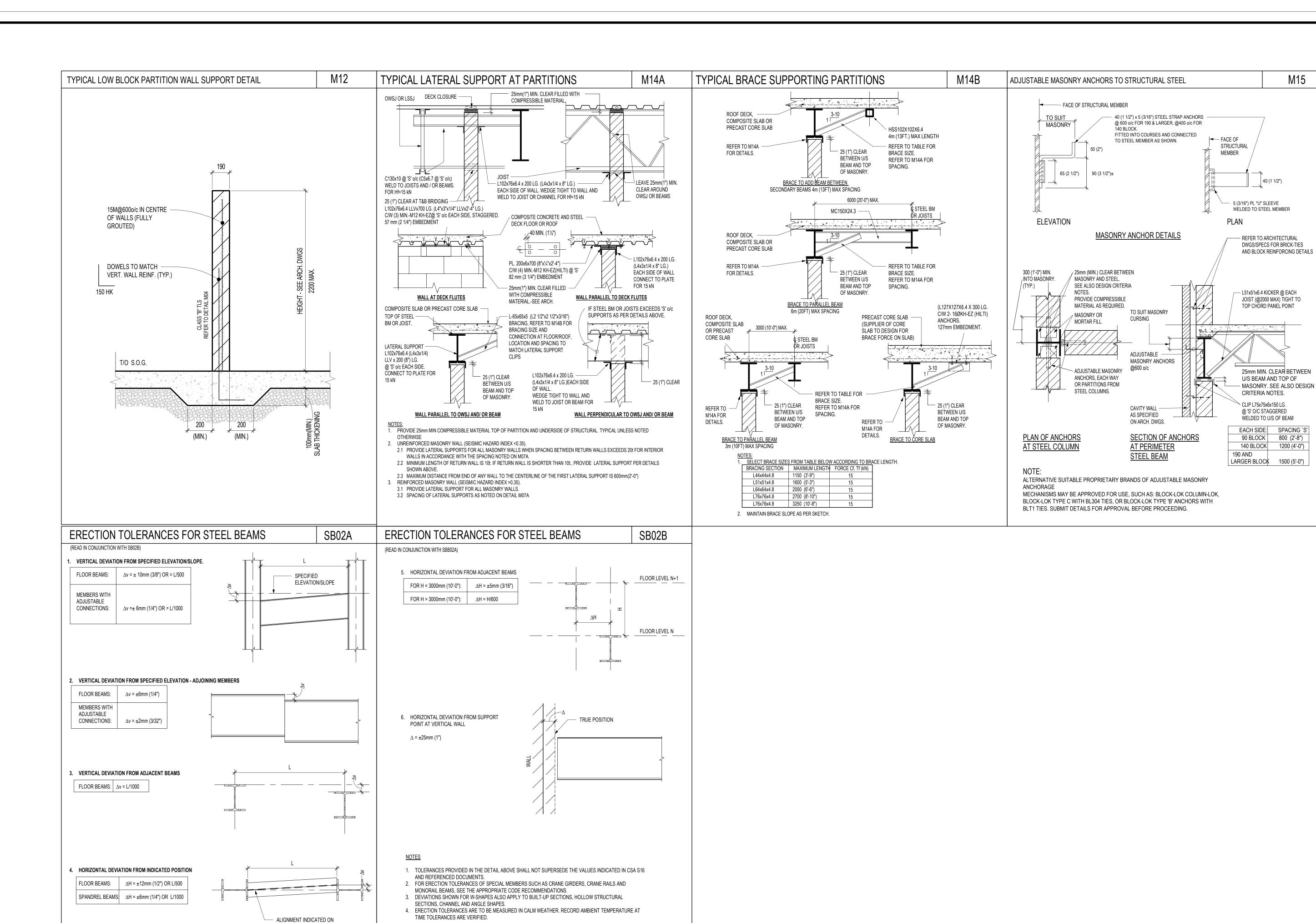
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: TYPICAL DETAILS

PROJECT NO: SCALE: 20220316 DRAWING NO:

CHECKED: JG MARCH 2024



1. TOLERANCES PROVIDED IN THE DETAIL ABOVE SHALL NOT SUPERSEDE THE VALUES INDICATED IN CSA S16 AND

REFERENCED DOCUMENTS.

2 2 3 4 2 THE CONTRACTOR SHALL CHECK ALL

DIMENSIONS WITH THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK.



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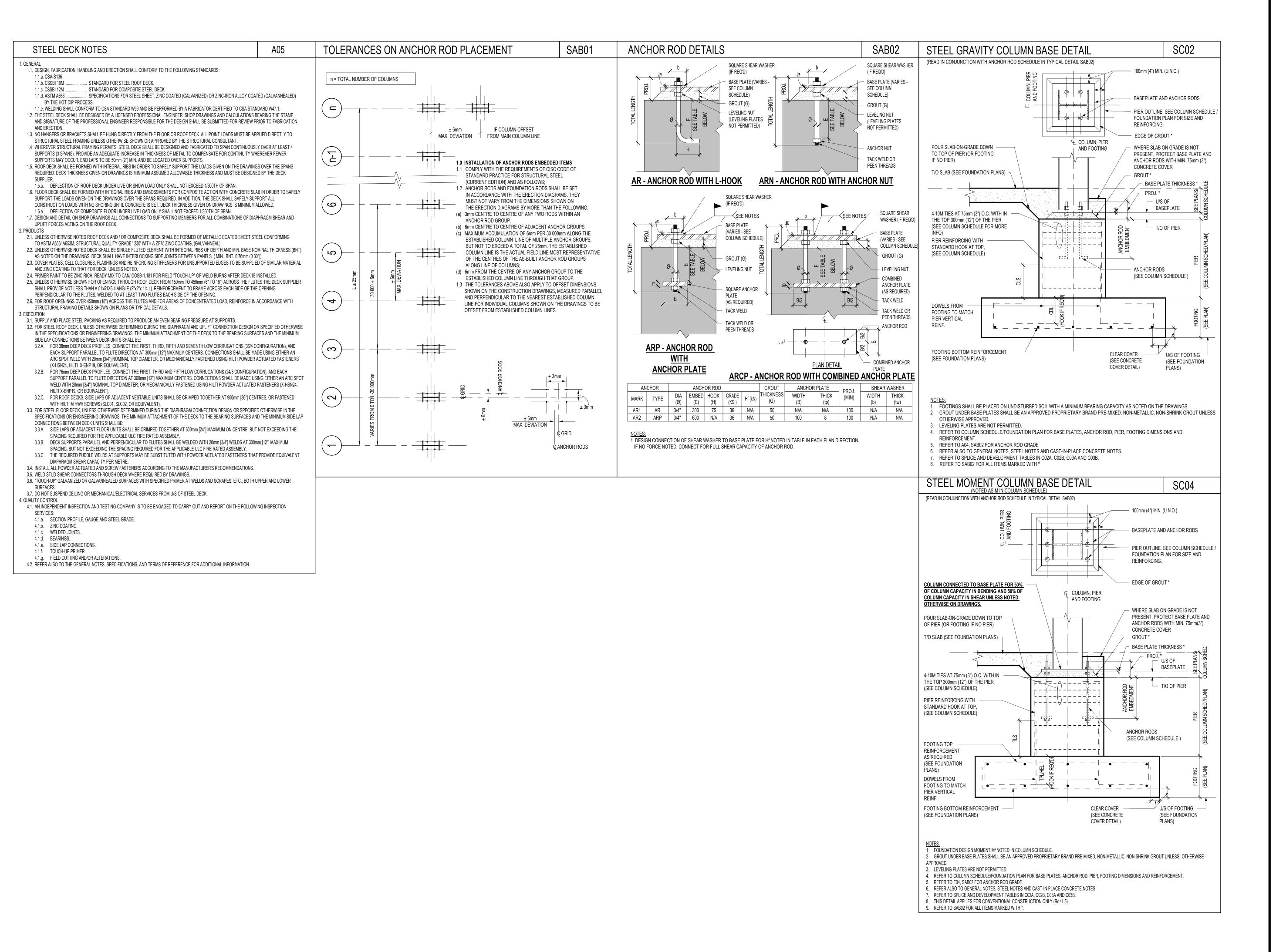


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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: TYPICAL DETAILS

PROJECT NO: 20220316 1:1 DRAWING NO: RE CHECKED: MARCH 2024



MARCH 2024 ISSUED FOR TENDER
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 DATE ISSUED FOR PERMIT

THE CONTRACTOR SHALL CHECK ALL
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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:
TYPICAL DETAILS AN
GENERAL NOTES

PROJECT NO: SCALE: 1:1

DRAWN: AE

CHECKED: JG

DATE: MARCH 2024

SCALE: 1:1

DRAWING NO: REV

S3-06

5

	MECHANICAL LEGEND		MEC
HEATING, VENTIL	ATION AND AIR CONDITIONING (HVAC)	HEATING, VENTIL	ATION AND AIR WALL FIN HEA
	RIGID DUCTWORK	CV-A 7000 0.15	CV-A DEN
	EXTERNALLY INSULATED DUCTWORK		0.15 DEN
WM.	FLEXIBLE ROUND DUCTWORK	FFH-A	FFH-A DEN
	SUPPLY DUCTWORK RISER UP EXHAUST/RETURN DUCTWORK RISER UP		AND FLOW RA
	SUPPLY DUCTWORK RISER DOWN	1-101 4 125 75	VAV BOX
	EXHAUST/RETURN DUCTWORK RISER DOWN	PLUMBING AND I	DRAINAGE
BD	BALANCING DAMPER	STM	ABOVE-GROU
• SD	SPLITTER DAMPER	STM	UNDERGROUN
→= U/C	DOOR UNDERCUT	SAN	ABOVE-GROU
→ D/G	DOOR GRILLE	∠ SAN →	UNDERGROUN
CAP [CAPPED DUCTWORK	PUMPED SAN	PUMPED SANI
∏ ⊉ BD	SPIN-ON FITTING WITH BALANCING DAMPER	<i>←</i> し	RUNNING TRA
	SUPPLY AIR DIFFUSER	<u>~</u>	PLUMBING TR
	RETURN/EXHAUST AIR GRILLE	/ V	SANITARY VEI
	FLEXIBLE CONNECTION	<i>←</i> IICO	SANITARY CLI
	SUPPLY AIR GRILLE — WALL—MOUNTED	co a⊢ /	SANITARY CLI
	RETURN AIR GRILLE — WALL—MOUNTED		DOMESTIC CO
BD	FLEXIBLE DUCT CONNECTION TO RIGID DUCTWORK	/	DOMESTIC HO
		BFP	BACKFLOW PF
	SQUARE ELBOW WITH AIR TURNING VANES	/	WATER METER
□ FD		Т нв	HOSE BIBB
	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR IN DUCT	↓ NFHB	NON-FREEZE
□ MD	MOTORIZED DAMPER	O VTR	VENT THROUG
	WIOTONIZED DAMILEN	O RWL	RAIN WATER
BDD	BACK DRAFT DAMPER	⊘ FD	FLOOR DRAIN
 		Ø FFD	FUNNEL FLOO
¬ BD	BALANCING DAMPER	© RD CONTROLS	ROOF DRAIN
· 		<u> </u>	BAS - TEMPI
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT	c/s	BAS - CURRI
OED OED	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH	— □ P/S	BAS - PRESS
	INLET	— □ F/S	BAS - FLOW
	AIR HANDLING UNIT SILENCER	Al	BAS - ANAL
SL-AHU1-2	AS PER SILENCER SCHEDULE	АО	BAS - ANAL
300×300 S1)	— DENOTES DIFFUSER/GRILLE SIZE ► DENOTES DIFFUSER TYPE	DI	BAS - DIGITA
52	— DENOTES AIRFLOW RATE (IN L/S)	DO	BAS - DIGITA
(T)	THERMOSTAT TIED TO THE BAS SYSTEM	FIRE PROTECTION	
T ()	STANDALONE THERMOSTAT		FIRE EXTINGU
/── LTS ──/	LOW TEMPERATURE SUPPLY - HEAT PUMP LOOP	FE	FIRE BLANKE
/ LTS / / LTR/	LOW TEMPERATURE RETURN — HEAT PUMP LOOP	ACRONYMS	TINE DEMINICE
/ LTRR/	LOW TEMPERATURE REVERSE RETURN — HEAT PUMP LOOP		IDTION
/— RL —/	REFRIGERATION LINE - LIQUID	LABEL DESCR AD ACCES	S DOOR
/ RG/	REFRIGERATION LINE - GAS	AC AIR CO	ONDITIONER CING DAMPER
/ CD/	CONDENSATE LINE	CAP CAP E	RAFT DAMPER XISTING SERVIC
/ G/	NATURAL GAS LINE		NSATE CT TO EXISTIN OINT
/GV/	NATURAL GAS VENT LINE	DF DRINKI	NG FOUNTAIN ST AIR
/───>	ISOLATION VALVE. TYPE AS PER SPECIFICATION		AMPER
/ —	BALANCING VALVE	FS FLOW	XTINGUISHER SWITCH -HELD SHOWER
	STRAINER	LV LAVAT	
	PRESSURE REDUCING VALVE	NO NORMA NC NORMA	ALLY OPEN ALLY CLOSED
	AUTOMATIC 2-WAY CONTROL VALVE AUTOMATIC 3-WAY CONTROL VALVE	PG PRESS	OR AIR URE GAUGE
	CHECK VALVE	RWL RAIN N REM REMOV RP REPLA	
/	UNION	RA RETUR SA SUPPL	N AIR Y AIR
* * * * * * * * * * * * * * * * * * *	MANUAL AIR VENT	TYP TYPICA	
/ × × × /	DENOTES EXISTING PIPING/DUCTWORK TO BE REMOVED	VTR VENT	/ENTILATOR THROUGH ROOF [R—DRYER UNIT
<i></i>	DENOTES EXISTING PIPING/DUCTWORK TO REMAIN	4 1	CLOSET
	DENOTES NEW PIPING/DUCTWORK		
O _₽ PG	PRESSURE GAUGE		
TG	THERMOMETER		
UP O	PIPE UP		
MD C	PIPE DOWN		

	MECHANICAL LEGEND
HEATING, VENTIL.	ATION AND AIR CONDITIONING (HVAC)
	WALL FIN HEATER CV-A DENOTES TYPE
CV-A 7000 0.15	7000 DENOTES HEAT OUTPUT IN WATTS 0.15 DENOTES FLOW RATE IN L/S
	FORCED FLOW HEATER
FFH-A	FFH—A DENOTES TYPE REFER TO FORCED FLOW HEATER SCHEDULE FOR HEAT OUTPUT AND FLOW RATE
1-101 4 125 75	VAV BOX
PLUMBING AND D	
. STM .	ABOVE-GROUND STORM
STM	
<i>∕</i>	UNDERGROUND STORM ABOVE—GROUND SANITARY
SAN	UNDERGROUND SANITARY
PUMPED SAN	PUMPED SANITARY
	RUNNING TRAP
~	PLUMBING TRAP
, v ,	SANITARY VENT
/—ICO	SANITARY CLEANOUT IN ACCESSIBLE CEILING SPACE
CO a ⊢⁄	SANITARY CLEANOUT IN ACCESSIBLE CEILING SPACE SANITARY CLEANOUT IN SLAB
	DOMESTIC COLD WATER
/	
	DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATION
BFP	BACKFLOW PREVENTER - SUITABLE FOR SERVICE INTENDED
/	WATER METER
I HB	HOSE BIBB
▼ NFHB	NON-FREEZE HOSE BIBB
O VTR	VENT THROUGH ROOF
O RWL	RAIN WATER LEADER
Ø FD	FLOOR DRAIN
Ø FFD	FUNNEL FLOOR DRAIN
Ø RD	ROOF DRAIN
CONTROLS	NOO! DIVAIN
—⟨T⟩	BAS — TEMPERATURE SENSOR — IN PIPING
c/s	BAS - CURRENT SENSOR
_ □ P/S	BAS - PRESSURE SWITCH
_ F/S	BAS - FLOW SWITCH
Al	BAS - ANALOG INPUT
AO	BAS — ANALOG OUTPUT
DI	BAS - DIGITAL INPUT
DO	BAS - DIGITAL OUTPUT
FIRE PROTECTION	
	FIRE EXTINGUISHER IN ENCLOSURE C/W MOUNTING BRACKET
FE	FIRE EXTINGUISHER C/W MOUNTING BRACKET
EE EE FB	FIRE BLANKET
FE	FIRE BLANKET
FE ESSENTING FB	
FB ACRONYMS LABEL DESCRI	IPTION_
FB ACRONYMS LABEL DESCRI AD ACCES: AC AIR CC	IPTION S DOOR ONDITIONER
EBD BALANG BDD BACKD	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER
FE ACRONYMS LABEL DESCRI AD ACCES: AC AIR CC BD BALAN BDD BACKD CAP CAP EX CD CONDEI CTE CONNE	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING
FE ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALAN BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKII	IPTION S DOOR ONDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN
FE ACRONYMS LABEL DESCRI AD ACCES: AC AIR CC BD BALAND BDD BACKD CAP CAP EX CO CONDE CTE CONNE CUT CUT PC DF DRINKII EA EXHAU EX EXISTIN	IPTION S DOOR ONDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR
FE FIRE E	IPTION S DOOR ONDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER
ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALAN BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKII EA EXHAU EX EXISTIN FD FIRE D FE FIRE E FS FLOW S HHS HAND—	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH HELD SHOWER
ACRONYMS LABEL DESCRI AD ACCES: AC AIR CO BD BALAN: BDD BACKD CAP CAP E: CD CONDE: CTE CONNE CUT CUT PO DF DRINKII EA EXHAU EX EXISTIN FD FIRE DE FS FLOW: HHS HAND— LV LAVATO MD MOTOR	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR IG AMPER XTINGUISHER SWITCH -HELD SHOWER DRY IZED DAMPER
ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALAN BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKIT EA EXHAU EX EXISTIN FD FIRE D FE FIRE E FS FLOW S HHS HAND— LV LAVATO MD MOTOR NO NORMA NO NORMA	IPTION S DOOR SNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH -HELD SHOWER DRY IZED DAMPER ALLY OPEN ALLY CLOSED
ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALAN BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKIN EA EXHAU EX EXISTIN FD FIRE D FE FIRE EX FS FLOW S HHS HAND— LV LAVATO MD MOTOR NO NORMA NC NORMA OA OUTDO PG PRESSI	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH HELD SHOWER DRY IZED DAMPER KLLY OPEN KLLY CLOSED OR AIR URE GAUGE
ACRONYMS LABEL DESCRI AD ACCES: AC AIR CO BD BALANI BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKII EA EXHAU' EX EXISTIN FD FIRE D FE FIRE E: FS FLOW S HHS HAND— LV LAVATO MD MOTOR NO NORMA NC N	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH HELD SHOWER DRY IZED DAMPER NLLY OPEN NLLY CLOSED OR AIR URE GAUGE VATER LEADER
ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALANI BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKII EA EXHAU' EX EXISTIN FD FIRE D FE FIRE EX FS FLOW S HHS HAND— LV LAVATI MD MOTOR NO NORMA NC NORMA OA OUTDO PG PRESSU RWL RAIN W	IPTION S DOOR DNDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH HELD SHOWER DRY IZED DAMPER ALLY OPEN ALLY CLOSED OR AIR URE GAUGE VATER LEADER E CE N AIR
ACRONYMS LABEL DESCRI AD ACCESS AC AIR CO BD BALAN BDD BACKD CAP CAP EX CD CONDE CTE CONNE CUT CUT PO DF DRINKIN EA EXHAU EX EXISTIN FD FIRE D FE FIRE E FS FLOW S HHS HAND— LV LAVATO MD MOTOR NO NORMA NC NORMA NC NORMA NC NORMA OA OUTDO PG PRESSI RWL RAIN REM REMOV RP REPLAC RA RETURI SA SUPPLY	IPTION S DOOR INDITIONER CING DAMPER RAFT DAMPER XISTING SERVICE NSATE CT TO EXISTING OINT NG FOUNTAIN ST AIR NG AMPER XTINGUISHER SWITCH HELD SHOWER ORY IZED DAMPER ALLY OPEN ALLY CLOSED OR AIR URE GAUGE VATER LEADER E CE N AIR Y AIR VISED VALVE

GENERAL NOTES:

- 1. 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 OTHER DIVISIONS.
- IT IS MANDATORY FOR THE MECHANICAL CONTRACTOR TO VISIT THE SITE <u>PRIOR TO</u> <u>BIDDING</u> 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.
- 3. CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO STARTING ANY WORK.
- 4. 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 AND ELECTRICAL 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.
- 5. 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 AUTHORITIÈS HAVING JURISDICTION.
- 6. 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.
- 7. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE MECHANICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
- 8. FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE SPECIFIC APPROVAL FOR SUBSTITUTION IS GIVEN IN WRITING BY THE OWNER.
- 9. ALLOW FOR PIPE FREEZING OF THE EXISTING SERVICES AS REQUIRED FOR ISOLATION
- 10. ALLOW FOR DRAINING, FLUSHING AND FILLING OF ALL EXISTING SYSTEMS AS REQUIRED TO SUIT THE DEMOLITION AND NEW SCOPE OF WORK.

	DRAWING LIST							
DRAWING NUMBER	DESCRIPTION							
M1	MECHANICAL LEGEND AND NOTES							
M2 FIRST FLOOR KEY PLAN								
М3	SECOND FLOOR KEY PLAN							
M4	NEW PLUMBING & DRAINGE PLAN							
M5	NEW HVAC PLAN							
М6	NEW HVAC PIPING PLAN - ADDITION							
М7	NEW HVAC PIPING PLAN — EXISTING SCHOOL							
М8	SCHEDULES							

BUILDING AUTOMATION SYSTEM WORK

ALL WORK ASSOCIATED WITH THE DEMOLITION AND/OR RELOCATION OF THE EXISTING BUIDLING AUTOMATION SYSTEM AS WELL AS ALL NEW BUILDING AUTOMATION WORK RELATED TO THE NEW HVAC EQUIPMENT WILL BE COMPLETED BY THE DESIGNATED CONTROLS CONTRACTOR FOR THE SCHOOL.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ENGAGING THE CONTROLS CONTRACTOR. ALL COSTS OF THE CONTROLS CONTRACTOR SHALL BE INCLUDED FOR IN THE BASE TENDER PRICE.

- THE CONTROLS CONTRACTOR FOR THIS SCHOOL IS:
- SETPOINT BUILDING AUTOMATION INC.
- 400 SPINNAKER WAY UNIT-1 CONCORD, ONTARIO L4K 5Y9 OFFICE - 905.669.8012 X-202
- CELL 416.989.9675 CONTACT: JIM BOWIE

PHASE 1 — SUMMER WORK

- THE CONTRACTOR SHALL COMPLETE ALL DEMOLITION AND NEW WORK INSIDE THE EXISTING SCHOOL DURING THE SUMMER TIME IN ADVANCE OF STUDENTS RETURNING TO SCHOOL. THIS INCLUDES:
- 1. ALL CONNECTION WORK OF THE NEW UNDERGROUND SERVICES AT THE CONNECTION OF THE NEW ADDITION TO THE EXISTING SCHOOL.

 2. ALL WORK INSIDE THE EXISTING LIBRARY.
- 3. ALL WORK INSIDE THE EXISTING SECOND FLOOR MECHANICAL ROOM.
- 4. ALL NEW PIPING TO BE INSTALLED ABOVE THE CEILING BETWEEN THE EXISTING SECOND FLOOR MECHANICAL ROOM AND THE NEW ADDITION. ALL NEW PIPING IS TO BE INSTALLED ABOVE THE EXISTING DROP CEILINGS.

04/04/24 ISSUED FOR TENDER	ISSUED FOR TENDER	07/31/23 ISSUED FOR TENDER	02/22/23 RE-ISSUED FOR PERMIT	02/10/23 ISSUED FOR PERMIT	ISSUED FOR 85% DESIGN REVIEW	10/21/22 ISSUED FOR 60% DESIGN REVIEW	REVISION
04/04/24	02/29/24	07/31/23	02/22/23	02/10/23	01/20/23	10/21/22	NO. DATE:
	9	5	4	3	2	-	Š.

BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- . ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- . THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

5. THE STABILITY OF THE STRUCTURAL FRAME

- IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD. ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

ARCHITECTS INC.

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763

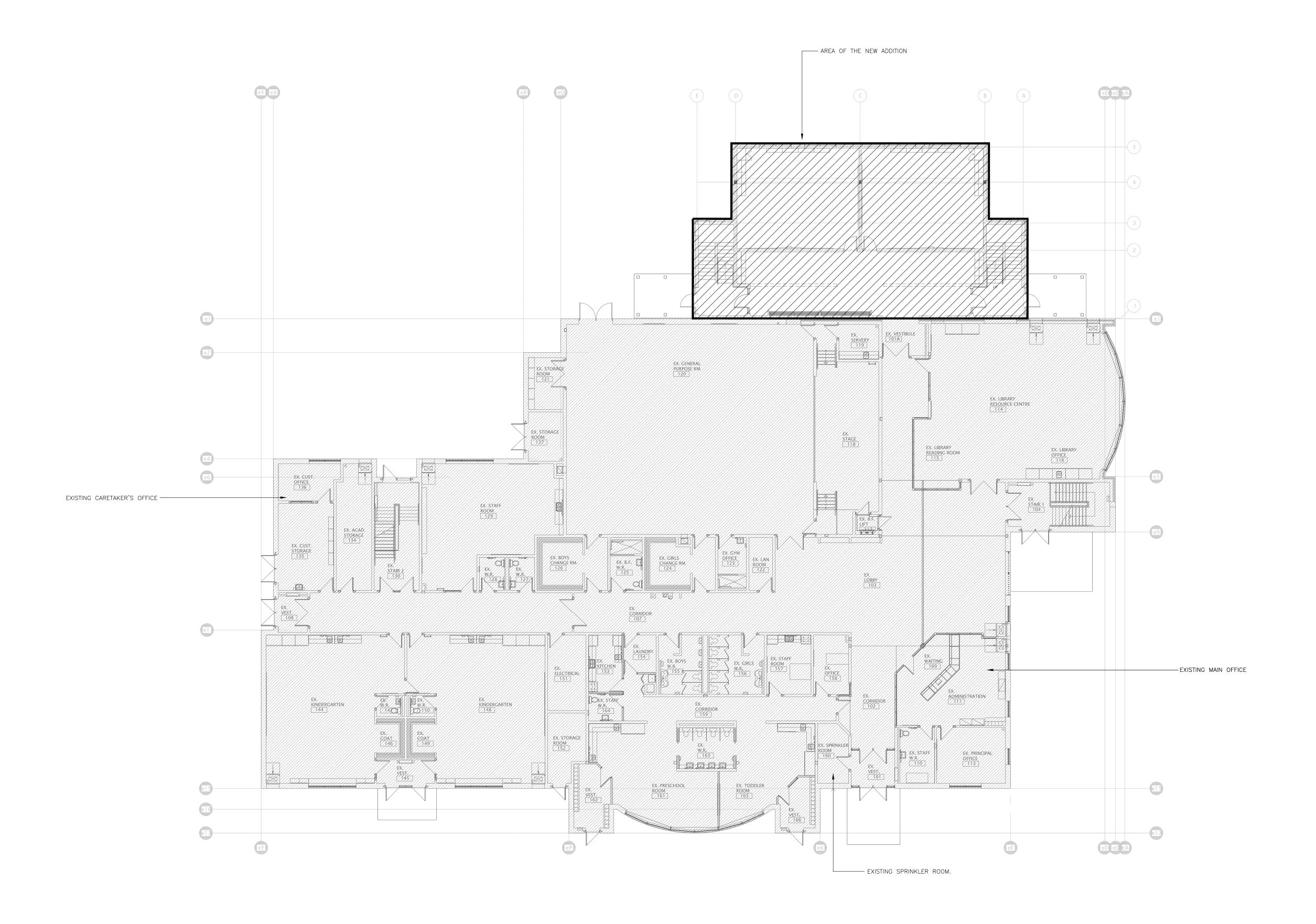


ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: MECHANICAL LEGEND AND NOTES

			7
OJECT NO:	SCALE:		April
2-192			Thursday,
AWN:	DRAWING NO:	REV.	nrs
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ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

1022 WHITE CLOVER WAY MISSISSAUGA, ONTARIO L5V 1C8 T (905)-290-7861 F (289)-327-3420

Kingsland +

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763



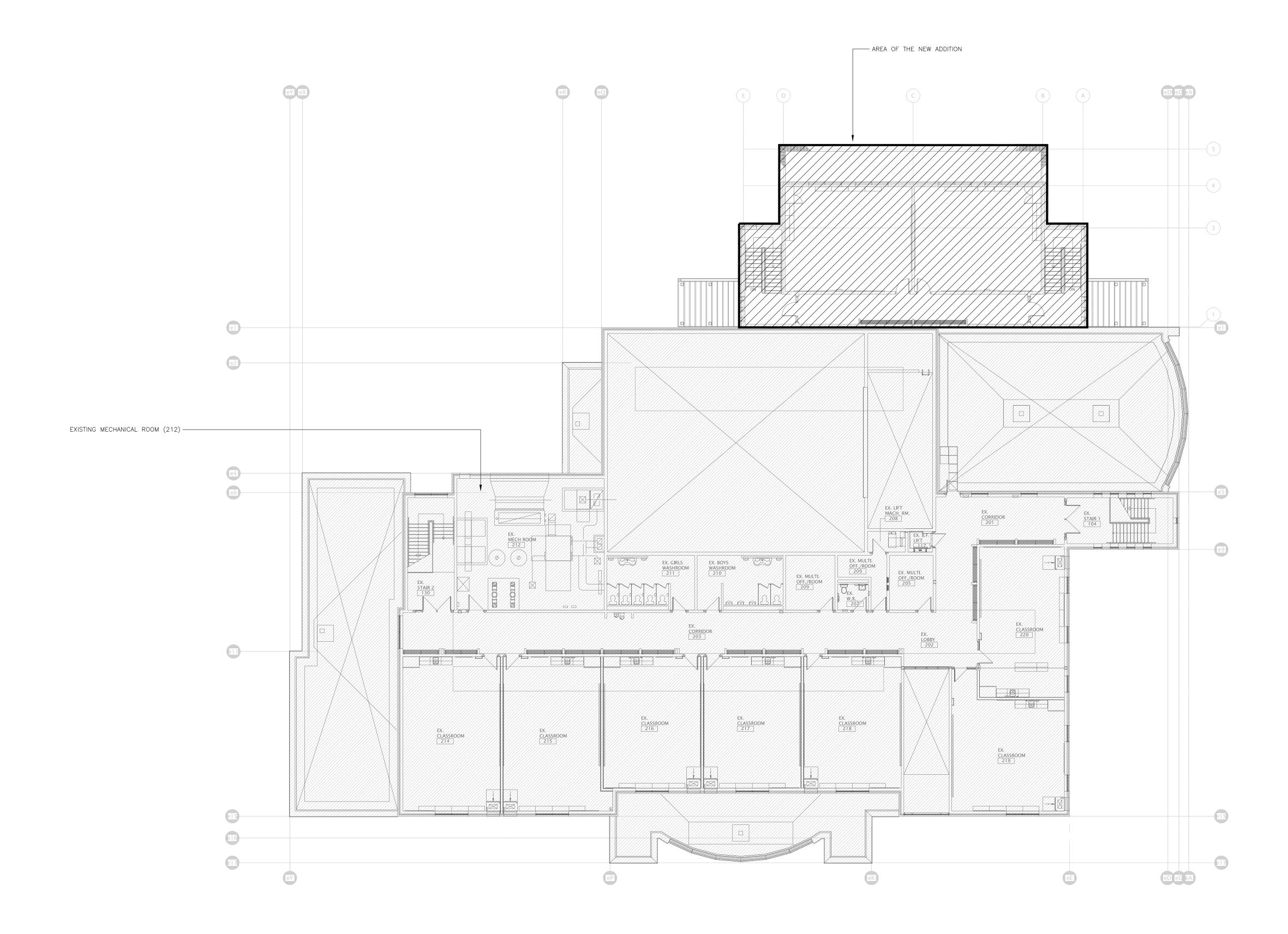
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: FIRST FLOOR KEY PLAN

PROJECT NO: SCALE: 22-192 DRAWN: DRAWING NO: REV. CHECKED:

1 FIRST FLOOR KEY PLAN
M2 SCALE: 1:150



DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

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ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.

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6. ALL DIMENSIONS GIVEN ARE IN METRIC.

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ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

Kingsland +

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ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

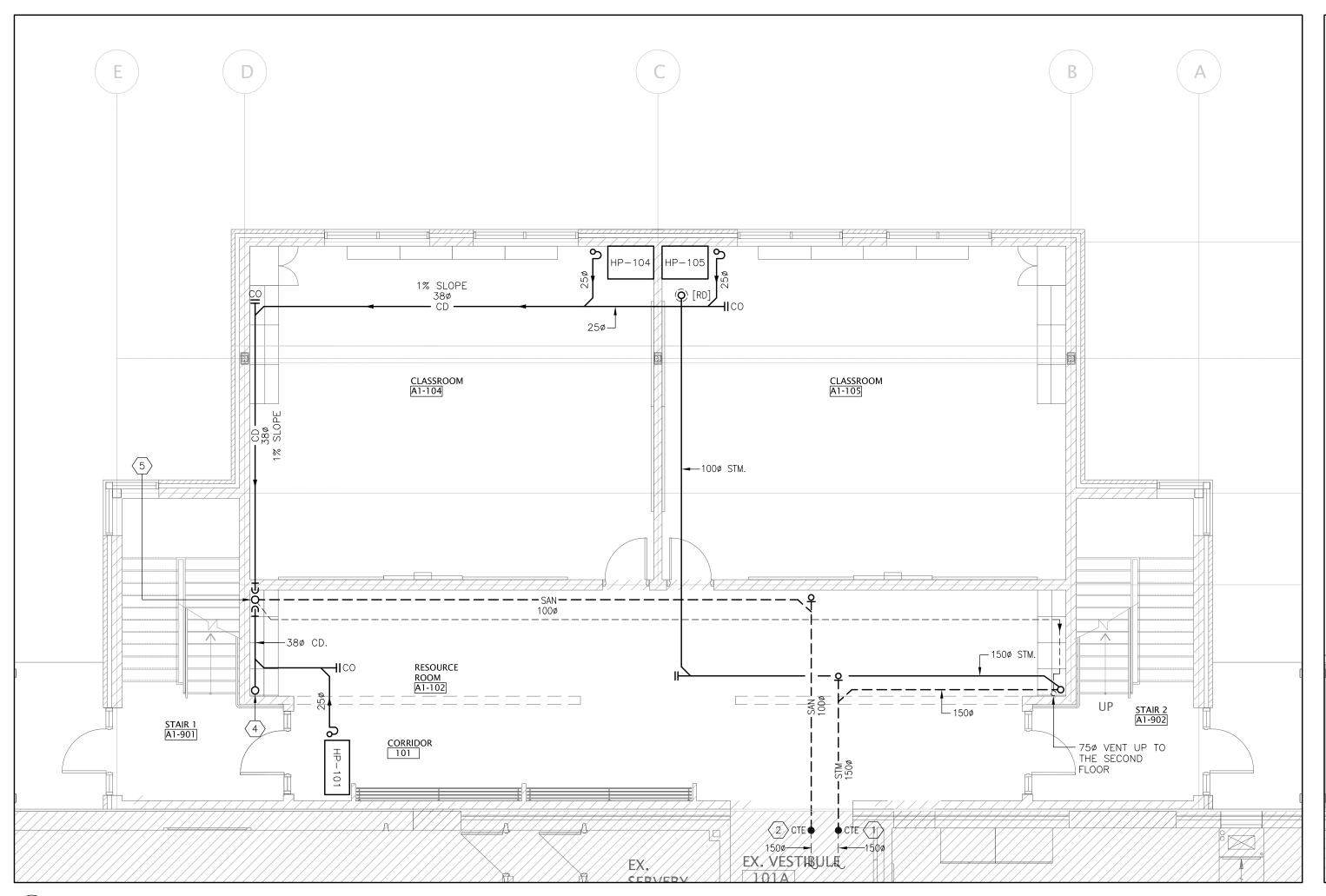
M1C 1R7

DRAWING TITLE: SECOND FLOOR KEY PLAN

PROJECT NO: SCALE: 22-192 DRAWN: DRAWING NO: REV. CHECKED:

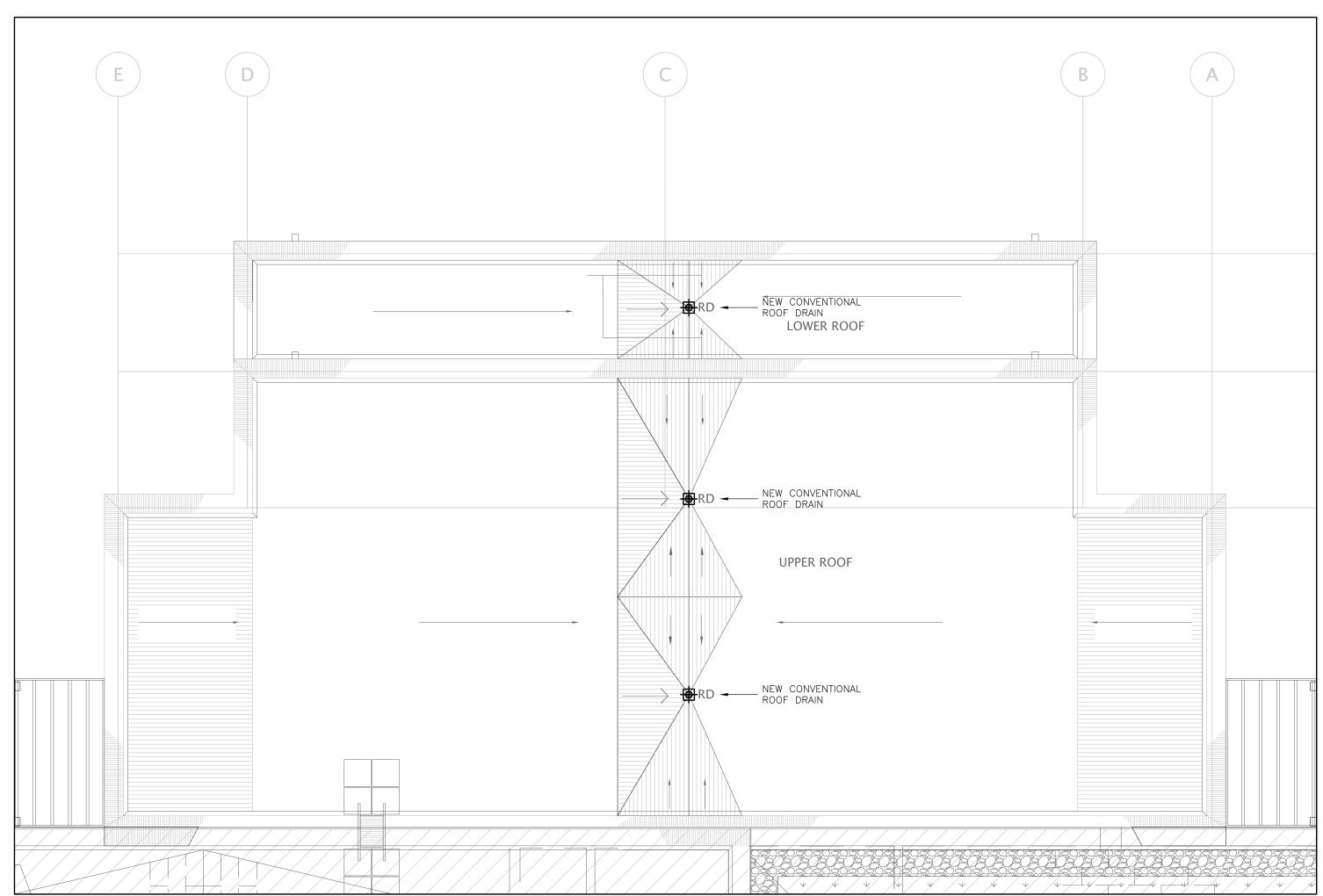
1 SECOND FLOOR KEY PLAN

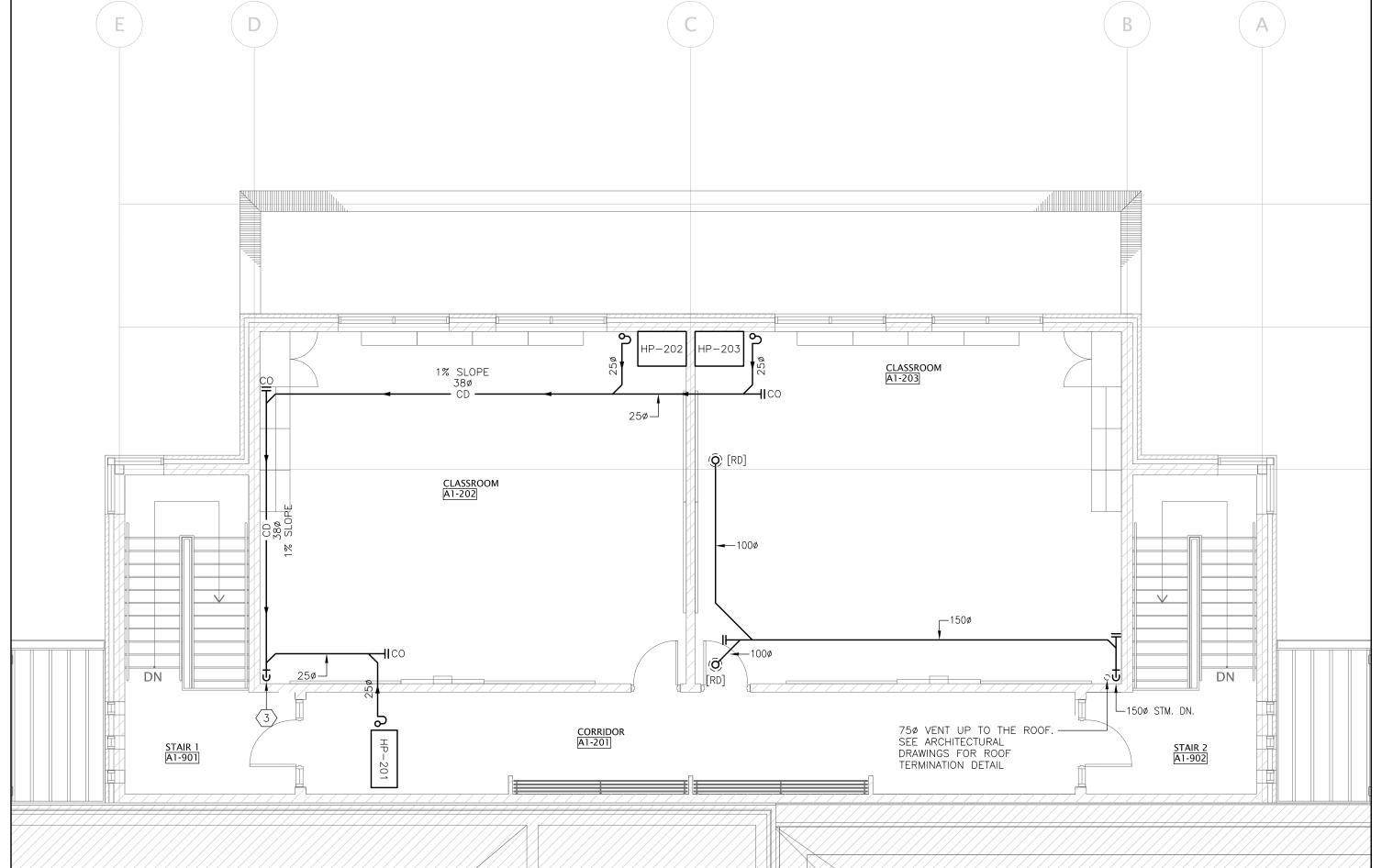
M3 SCALE: 1:150



1 NEW PLUMBING & DRAINAGE PLAN - FIRST FLOOR ADDITION

M4 SCALE: 1:75





2 NEW PLUMBING & DRAINAGE PLAN — SECOND FLOOR ADDITION

M4 SCALE: 1:75

DRAWING NOTES

- CONNECT THE NEW 1500 BURIED STORM TO THE EXISTING 1500 BURIED STORM PIPING AT INVERT 97.5. PRIOR TO STARTING ANY WORK AND AT THE ONSET OF THE PROJECT, CAMERA SCOPE THE EXISTING DRAIN AND VERIFY ITS EXACT LOCATION AND DEPTH. ADVISE THE ENGINEER OF THE FINDINGS PRIOR TO STARTING ANY NEW UNDERGROUND WORK OR FLOOR CUTTING.
- CONNECT THE NEW 1000 BURIED SANITARY TO THE EXISTING 1000 BURIED SANITARY PIPING AT INVERT 97.5. PRIOR TO STARTING ANY WORK AND AT THE ONSET OF THE PROJECT, CAMERA SCOPE THE EXISTING DRAIN AND VERIFY ITS EXACT LOCATION AND DEPTH. ADVISE THE ENGINEER OF THE FINDINGS PRIOR TO STARTING ANY NEW UNDERGROUND WORK OR FLOOR CUTTING.
- RUN 380 CONDENSATE DRAIN DOWN TO THE FIRST FLOOR CEILING SPACE.
- 4 380 CONDENSATE FROM THE SECOND FLOOR TO THE FIRST FLOOR CEILING SPACE. DRAIN TO THE NEW FUNNEL FLOOR DRAIN ALONGSIDE WITH THE 380 CONDENSATE FROM THE FIRST FLOOR HEAT PUMPS.
- PROVIDE A NEW 750 FUNNEL FLOOR DRAIN TO SERVE THE CONDENSATE FROM ALL HEAT PUMPS. PROVIDE A NEW 500 CONDENSATE DRAIN COMBINING THE 380 CONDENSATE DRAIN FROM THE FIRST FLOOR AND THE SECOND FLOOR. VENT THE FLOOR DRAIN AS PER OBC. PROVIDE AN ELECTRONIC TRAP SEAL PRIMER.

7 04/04/24 ISSUED FOR TENDER
6 02/29/24 ISSUED FOR TENDER
5 07/31/23 ISSUED FOR TENDER
4 02/22/23 RE-ISSUED FOR PERMIT
3 02/10/23 ISSUED FOR BERMIT
2 01/20/23 ISSUED FOR 85% DESIGN REVIEW
1 10/21/22 ISSUED FOR 60% DESIGN REVIEW

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH

 THE CONTRACTOR BEFORE PROCEEDING WITH

 THE CONTRACTOR BEFORE PROCEEDING WITH

 THE CONTRACTOR BEFORE PROCEEDING WITH

THE WORK.

- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

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F (289)-327-3420

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ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

DRAWING TITLE:

NEW PLUMBING & DRAINAGE
PLAN

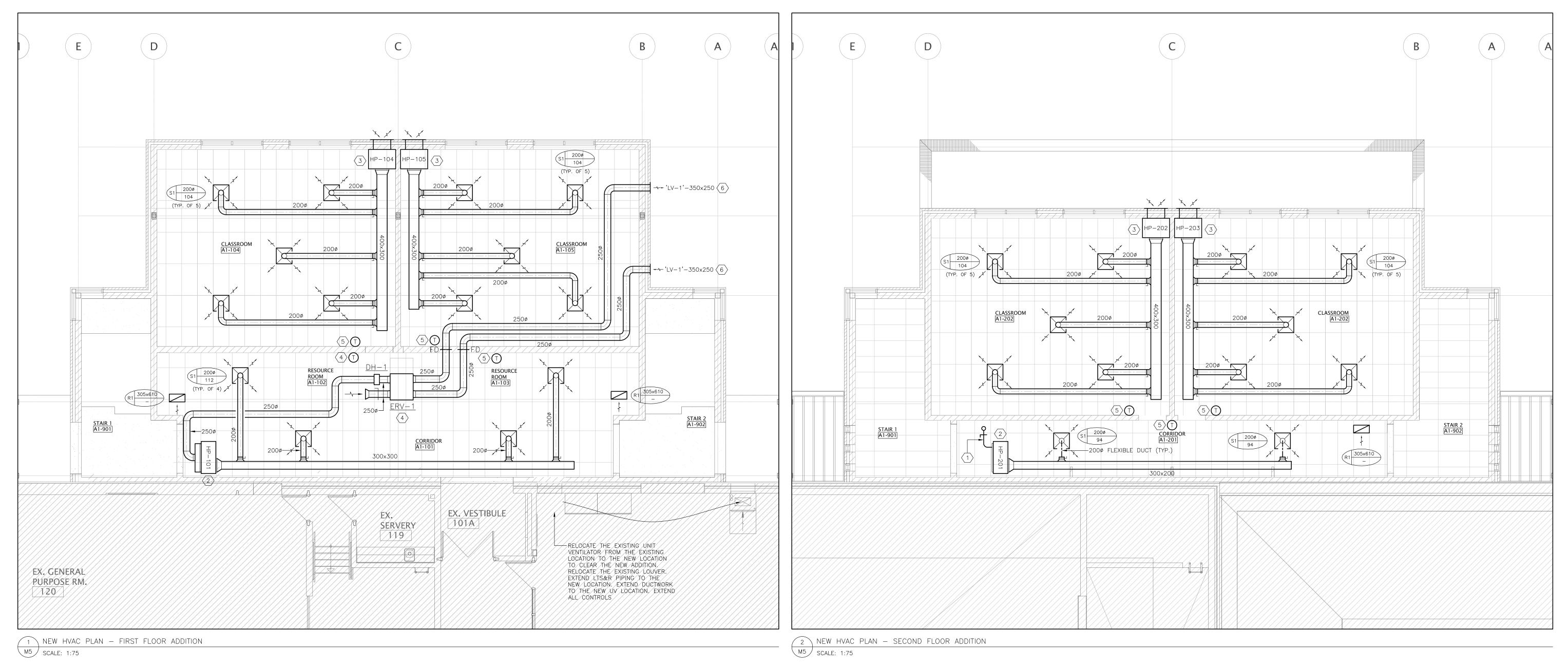
PROJECT NO: SCALE:

22-192

DRAWN: DRAWING NO: REV. F. CHECKED: R.S.

3 NEW ROOF DRAINAGE PLAN — ADDITION

M4 | SCALE: 1:75



DRAWING NOTES:

- PROVIDE A NEW 1500 DUCT THROUGH THE ROOF FOR THE FRESH AIR INTAKE FOR HEAT PUMP HP-201. PROVIDE A MOTORIZED DAMPER (INTERLOCKED WITH THE ENABLE/DISABLE OF THE HEAT PUMP) AND BALANCING DAMPER ON THE DUCTWORK. EXTERNALLY INSULATED THE FULL LENGTH OF DUCTWORK. CONNECT DUCTWORK TO THE RETURN AIRSTREAM OF THE HEAT PUMP. BALANCE THE FRESH AIR INTAKE TO 30 CFM/14 LPS WHEN THE HEAT PUMP IS OPERATIONAL.
- PROVIDE A NEW IN-CEILING HORIZONTAL HEAT PUMP AS SCHEDULED. PROVIDE NEW DUCTWORK, DIFFUSERS AND RETURN GRILLES AS SHOWN. PROVIDE NEW LOW TEMPERATURE SUPPLY & RETURN PIPING AND CONDENSATE PIPING TO EACH HEAT PUMP SEE DRAWINGS M4 AND M6 FOR FULL EXTENT OF PIPING. EACH HEAT PUMP SHALL BE CONTROLLED BY A NEW WALL—MOUNTED BAS TEMPERATURE SENSOR.
- PROVIDE A NEW FLOOR-MOUNTED VERTICAL HEAT PUMP AS SCHEDULED. PROVIDE NEW DUCTWORK, EXTERIOR LOUVER AND DIFFUSERS AS SHOWN. PROVIDE NEW LOW TEMPERATURE SUPPLY & RETURN PIPING AND CONDENSATE PIPING TO EACH HEAT PUMP SEE DRAWINGS M4 AND M6 FOR FULL EXTENT OF PIPING. EACH HEAT PUMP SHALL BE CONTROLLED BY A NEW WALL-MOUNTED BAS TEMPERATURE SENSOR.
- PROVIDE A NEW IN-CEILING ENERGY RECOVERY VENTILATOR AS SCHEDULED. PROVIDE NEW DUCTWORK, DUCT HEATER, DIFFUSERS AND EXTERIOR LOUVERS AS SHOWN. LOCATE THE ERV'S CONTROLLER ON THE WALL OF RESOURCE ROOM (102).
- PROVIDE A NEW BAS SPACE TEMPERATURE SENSOR TO CONTROL THE HEAT PUMP SERVING EACH RESPECTIVE SPACE.
- 6 PROVIDE NEW EXTERIOR LOUVERS AS SCHEDULED. SPACE THE TWO (2) LOUVERS 3.5 METERS APART (MINUMUM).

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
 THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
 ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH

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1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST

EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING

GENERAL NOTES

JURISDICTION.

THE WORK.

5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:

NEW HVAC PLAN

PROJECT NO:
22-192

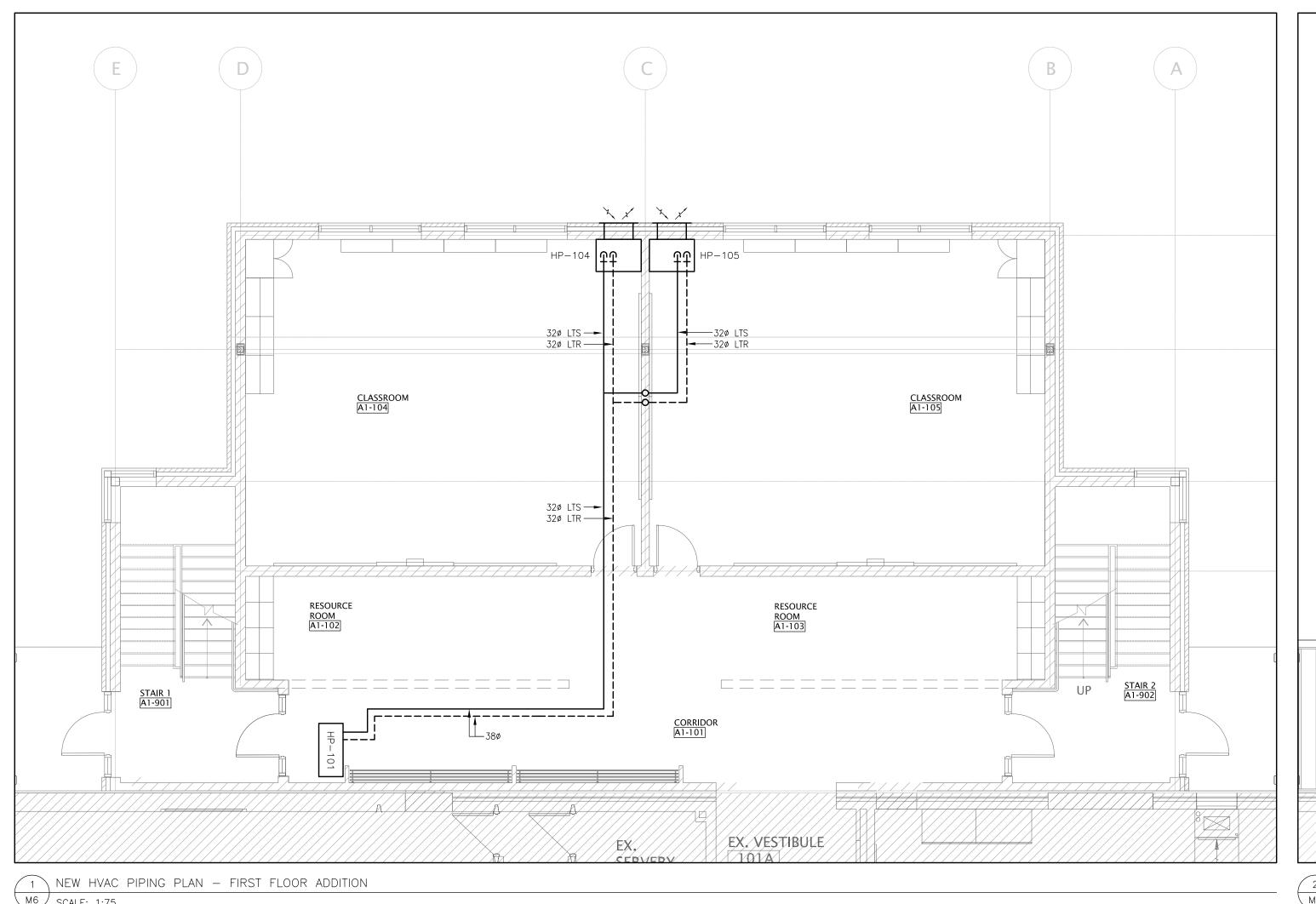
DRAWN:

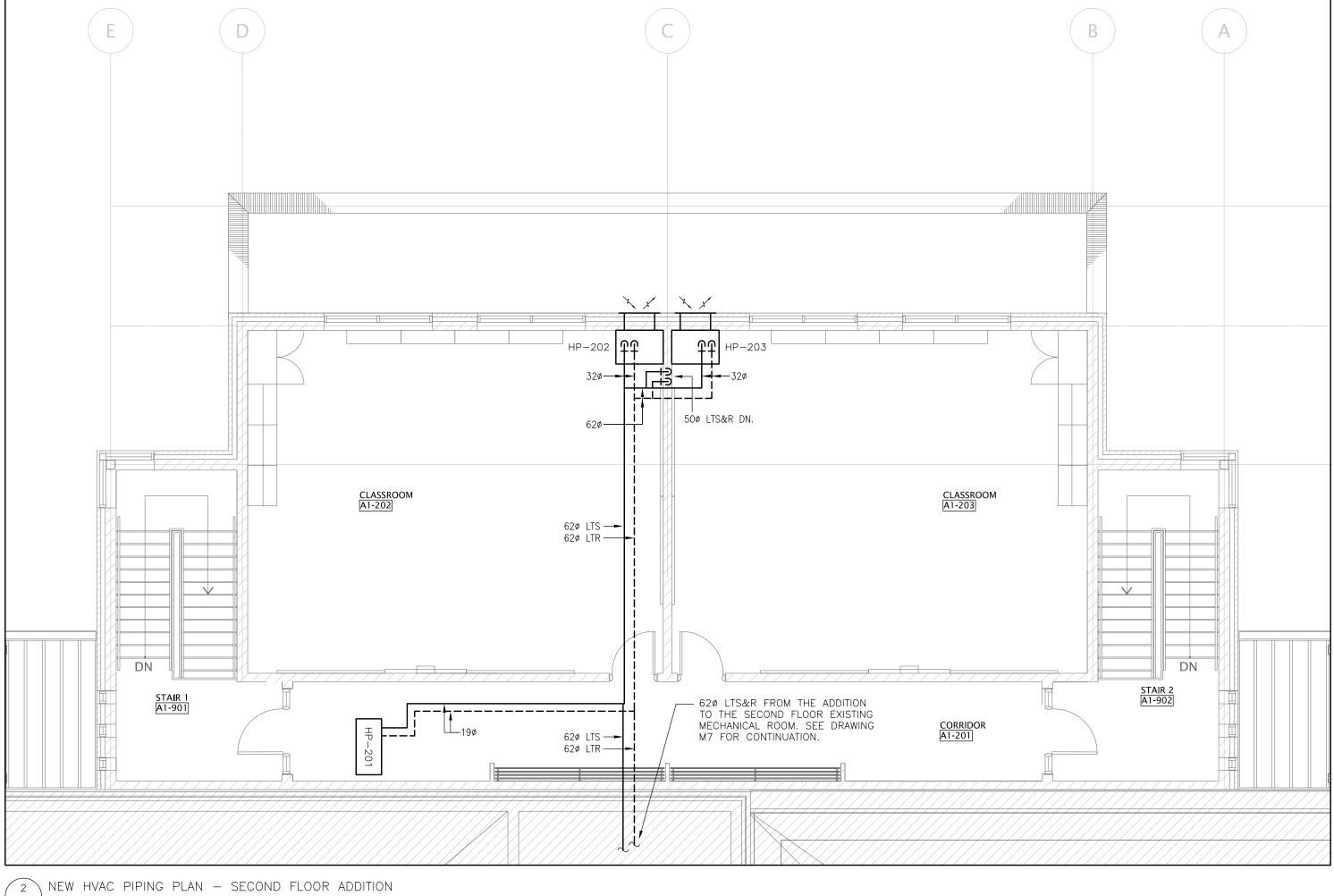
R.S.

CHECKED:

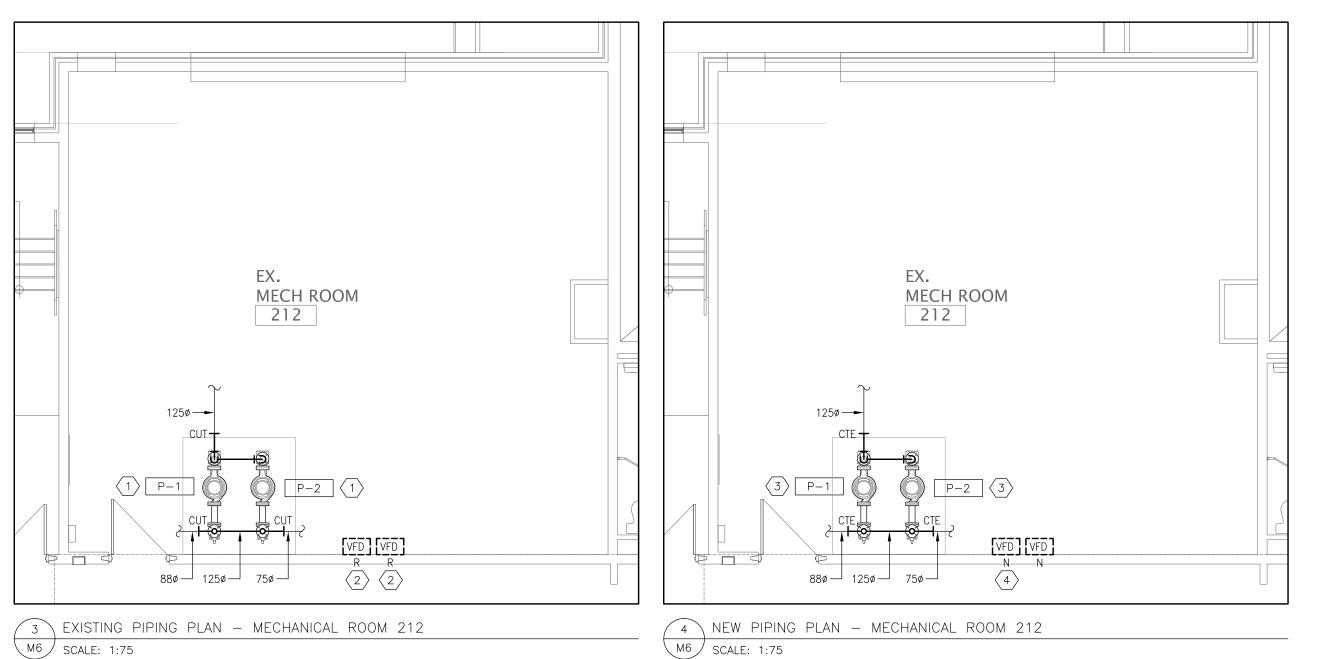
R.S.

DATE:





M6 SCALE: 1:75



M6 | SCALE: 1:75

REMOVE THE EXISTING PUMPS P-1 & P-2 AND REPLACE WITH NEW UPGRADED PUMPS P-1 AND P-2 AS SCHEDULED. REMOVE EXISTING PIPING TO THE EXTENT SHOWN. DISCONNECT FROM THE EXISTING 25 ϕ PIPING OFF OF THE HEADER SERVING THE BAS SENSORS AND CHEMICAL TREATMENT.

2 REMOVE THE EXISTING VFDs AND REPLACE WITH NEW.

PROVIDE NEW PUMPS P-1 AND P-2 AS SCHEDULED. RE-CONNECT TO THE EXISTING PIPING. RECONNECT TO THE EXISTING 25 ϕ PIPING OFF OF THE HEADER SERVING THE BAS SENSORS AND CHEMICAL TREATMENT.

4 PROVIDE NEW VFDs FOR PUMPS P-1 AND P-2 AS PER SPECIFICATION.

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS
 ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD. ENGINEERING CONSULTANTS

1022 WHITE CLOVER WAY MISSISSAUGA, ONTARIO L5V 1C8 T (905)-290-7861 F (289)-327-3420 ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

Kingsland \bot

ARCHITECTS INC.

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763



ÉÉC SAINT-MICHEL Classrooms Addition

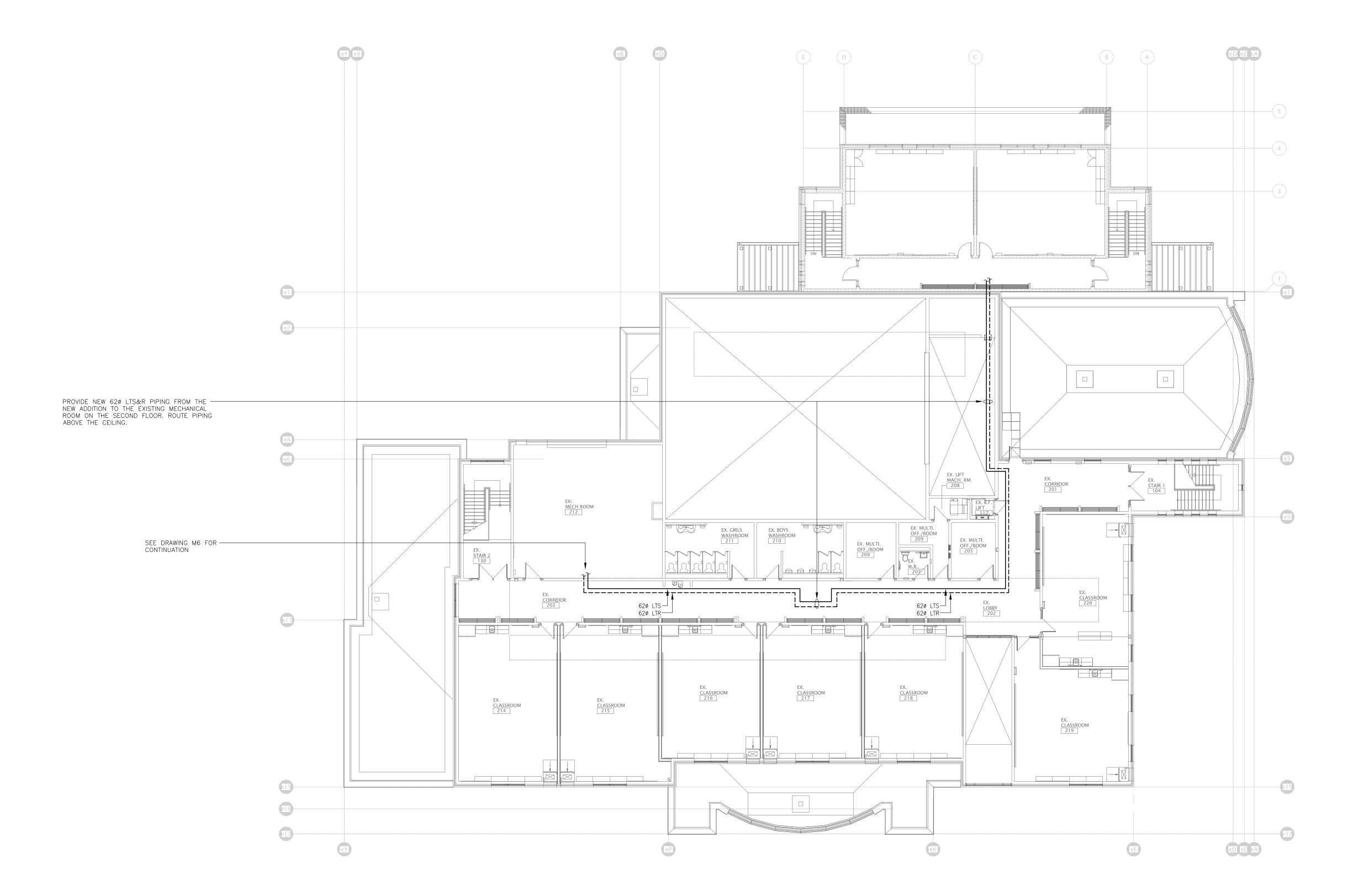
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: NEW HVAC PIPING PLAN — ADDITION

PROJECT NO: SCALE: 22-192 DRAWN: DRAWING NO: REV. CHECKED:

<u>Note</u>

- 1. PROVIDE NEW LOW TEMPERATURE SUPPLY & RETURN PIPING (LTS&R) ROUTED GENERALLY AS SHOWN. LOCATE ALL PIPING ABOVE THE DROP CEILINGS. PROVIDE ALL NECESSARY OFFSETS NECESSARY TO ROUTE THROUGHOUT THE CEILING SPACE AROUND ALL EXISTING OBSTRUCTIONS. SITE VERIFY AND ROUTE PIPING DOWN THE PATH WITH THE LEAST AMOUNT OF OBSTRUCTIONS. SUPPORT ALL PIPING FROM THE STRUCTURE.
- 2. IN THE STAGE AREA, INSTALL PIPING AS CLOSE TO THE UNDERSIDE OF THE ROOF STRUCTURE AS POSSIBLE.



7 04/04/24 ISSUED FOR TENDER
6 02/29/24 ISSUED FOR TENDER
5 07/31/23 ISSUED FOR PERMIT
3 02/10/23 ISSUED FOR PERMIT
2 01/20/2 ISSUED FOR 85% DESIGN REVIEW
1 10/21/22 ISSUED FOR 60% DESIGN REVIEW
NO. DATE: REVISION

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- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD.

 1022 WHITE CLOVER WAY
 ELECTRICAL

 MISSISSAUGA, ONTARIO
 MECHANICAL

 L5V 108
 LIGHTING

 T (905)-290-7861
 COMMUNICATION

 F (289)-327-3420
 SECURITY

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KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763



ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:

NEW HVAC PIPING PLAN —
EXISTING SCHOOL

OJECT NO:	SCALE:	
2-192		
AWN:	DRAWING NO:	REV.
S.		
ECKED:	\ _\ \ _7	
S.		
TE:		

	HEAT PUMP SCHEDULE											
TAG	AREA SERVED	MAKE & MODEL	TOTAL AIRFLOW	FRESH AIR	ESP	HEATING CAPACITY	COOLING CAPACITY	FLOW RATE	VOLTAGE	AMPS	WEIGHT	NOTES
HP-101	CORRIDOR (A1-101) RESOURCE ROOMS (A1-102) & (A1-103)	DAIKIN WGCH024	950 CFM 448 LPS	200 CFM 94 LPS	0.25" WG 62 Pa	28,952 BTU/HR 8.5 KW	23,166 BTU/HR 6.8 KW	6.0 GPM 0.38 LPS	208V/1ø	MCA: 18.2A MOCP: 30A	182 LBS	HORIZONAL, CEILING—SUSPENDED WATER SOURCE HEAT PUMP; C/W HOSE KIT. TO OPERATE WITH NEW ENERGY RECOVERY VENTILATOR ERV—1 AND DUCT HEATER DH—1
HP-104	CLASSROOM (A1-104)	AIRDALE SMW36BAMNAAXNN003	1100 CFM 519.2 LPS	350 CFM 166 LPS	0.50" WG 124 Pa	42,800 BTU/HR 12.6 KW	34,700 BTU/HR 10.2 KW	9.0 GPM 0.57 LPS	208V/1ø	MCA: 27.5A MOP: 40A	652 LBS	VERTICAL, FLOOR-MOUNTED WATER SOURCE HEAT PUMP, C/W 2-STAGE (R-410A) COOLING, DIRECT DRIVE CENTRIFUGAL FAN, EXTERIOR LOUVER (BRONZE FINISH C/W BIRDSCREEN), POWERED EXHAST FAN, ENERGY RECOVERY WHEEL
HP-105	CLASSROOM (A1-105)	AIRDALE SMW36BAMNAAXNN003	1100 CFM 519.2 LPS	350 CFM 166 LPS	0.50" WG 124 Pa	42,800 BTU/HR 12.6 KW	34,700 BTU/HR 10.2 KW	9.0 GPM 0.57 LPS	208V/1ø	MCA: 27.5A MOP: 40A	652 LBS	VERTICAL, FLOOR-MOUNTED WATER SOURCE HEAT PUMP, C/W 2-STAGE (R-410A) COOLING, DIRECT DRIVE CENTRIFUGAL FAN, EXTERIOR LOUVER (BRONZE FINISH C/W BIRDSCREEN), POWERED EXHAST FAN, ENERGY RECOVERY WHEEL
HP-201	CORRIDOR (A1-201)	DAIKIN WGCH012	200 CFM 94 LPS	30 CFM 14 LPS	0.25" WG 62 Pa	12,000 BTU/HR 3.5 KW	12,000 BTU/HR 3.5 KW	3.0 GPM 0.19 LPS	208V/1ø	MCA: 18.2A MOCP: 30A	182 LBS	HORIZONAL, CEILING—SUSPENDED WATER SOURCE HEAT PUMP; C/W HOSE KIT.
HP-202	CLASSROOM (A1-202)	AIRDALE SMW36BAMNAAXNN003	1100 CFM 519.2 LPS	350 CFM 166 LPS	0.50" WG 124 Pa	42,800 BTU/HR 12.6 KW	34,700 BTU/HR 10.2 KW	9.0 GPM 0.57 LPS	208V/1ø	MCA: 27.5A MOP: 40A	652 LBS	VERTICAL, FLOOR-MOUNTED WATER SOURCE HEAT PUMP, C/W 2-STAGE (R-410A) COOLING, DIRECT DRIVE CENTRIFUGAL FAN, EXTERIOR LOUVER (BRONZE FINISH C/W BIRDSCREEN), POWERED EXHAST FAN, ENERGY RECOVERY WHEEL
HP-203	CLASSROOM (A1-203)	AIRDALE SMW36BAMNAAXNN003	1100 CFM 519.2 LPS	350 CFM 166 LPS	0.50" WG 124 Pa	42,800 BTU/HR 12.6 KW	34,700 BTU/HR 10.2 KW	9.0 GPM 0.57 LPS	208V/1ø	MCA: 27.5A MOP: 40A	652 LBS	VERTICAL, FLOOR-MOUNTED WATER SOURCE HEAT PUMP, C/W 2-STAGE (R-410A) COOLING, DIRECT DRIVE CENTRIFUGAL FAN, EXTERIOR LOUVER (BRONZE FINISH C/W BIRDSCREEN), POWERED EXHAST FAN, ENERGY RECOVERY WHEEL

NOTES:

1. HEAT PUMP SHALL BE CONNECTED TO AND SHALL BE CONTROLLED BY THE EXISTING BAS SYSTEM.

				energy re	COVERY \	VENTILATOR SCHEDUL	_E				
EQUIPMENT DESIGNATION	MANUFACTURER	MODEL NO.	UNIT SIZE	UNIT WEIGHT	TOTAL AIRFLOW	TEMPERATURE RECOVERY EFFICIENCY	SOUND PRESS. (dB)	ASSOCIATED DUCT HEATER	CONTROLLED BY	MCA	VOLTAGE MOCP
ERV-1	LOSSNAY	LGH-F300RX5-E	40"Lx34.5"W x12.5"H	73 LBS	300 CFM	65.5% (@ FULL SPEED)	34	DH-1	BAS	1.8A	208V/1ø/60 15A
NOTES:											

1. UNIT IS TO BE C/W AND INTERLOCKED WITH THE CORRESPONDING ELECTRIC DUCT HEATER.

2. UNIT TO BE INTERLOCKED WITH THE CORRESPONDING MOTORIZED DAMPERS ON THE O/A AND E/A DUCTWORK.
3. UNIT IS TO BE C/W REMOTE WALL MOUNTED STANDALONE CONTROLLER LOCKED IN POLYCARBONATE ENCLOSURE AT THE LOCATION SHOWN ON THE LAYOUT.

				D	UCT HEATE	R SCHEDI	JLE		
EQUIPMENT DESIGNATION	MANUFACTURER	MODEL NO.	UNIT SIZE (mm)	HEATING CAPACITY	COLLAR SIZE	MINIMUM AIRFLOW	CONTROLLED BY	VOLTAGE MOCP	NOTES
DH-1	THERMOELEC	TER-8-3-208	292x254x343	3.0 KW	8"ø	90 CFM	INTERLOCKED W/ ERV; BAS	208V/1ø/60 20A	C/W SCR CONTROLS
NOTES:									

1. UNIT IS TO BE C/W WITH ALL REQUIRED CONTROLS AND SAFETY DEVICES.

2. UNIT IS TO BE C/W REMOTE DUCT MOUNTED TEMPERATURE SENSOR SET TO 70°F.
3. UNIT TO BE INTERLOCKED WITH THE CORRESPONDING ERV UNIT.

				DIFFUSE	ER, GRILLES /	AND LOUVER	SCHEDULE		
DESIGNATION	MANUFACTURER	MODEL NO.	TYPE	SIZE	NECK SIZE	COLOUR/FINISH	FIRE RATED	VOLUME CONTROL	NOTES
'S1'	EH PRICE OR EQUAL	SPD-B12	SUPPLY AIR	610×610	SEE DRAWING	WHITE (B12)	NO	YES	SEE NOTES 1, 2 BELOW; SUITABLE FOR T-BAR
'R1'	EH PRICE OR EQUAL	80-B12	RETURN AIR GRILLE	305×610	_	WHITE (B12)	NO	_	SEE NOTES 1, 2 BELOW; SUITABLE FOR T-BAR; C/W FRAME AND CORE
'LV-1'	EH PRICE OR EQUAL	DE439	LOUVER	SEE DRAWING	_	DARK BRONZE ANODIZED	_	_	SEE NOTES 1, 2 BELOW; C/W BIRDSCREEN DRAINABLE LOUVER SUITABLE FOR EXTERIOR INSTALL

NOTES: 1. SUBMIT SHOP DRAWINGS FOR ALL DIFFUSERS, GRILLES AND LOUVERS PRIOR TO ORDERING. 2. PROVIDE A PHYSICAL COLOUR CHIP TO THE ARCHITECT DURING SHOP DRAWING SUBMISSION FOR APPROVAL PRIOR TO ORDERING.

				PUMP SCH	IEDULE					
TAG	MAKE	MODEL	SYSTEM	TYPE	CAPACITY L/S [GPM]	HEAD kPa [FT]	RPM	MOTOR HP	ELECTRICAL (V/PH/HZ)	REMARKS
P-1 & P-2	ARMSTRONG OR EQUAL	4380-3x3x6	LOW TEMPERATURE CIRCULATION PUMPS	SPLIT COUPLED VERTICAL IN-LINE	18.9 [300]	269 [90]	3600	15.0	575/3/60	C/W VFD

NOTES:

1. PROVIDE ALL VALVES AND ACCESSORIES AS PER PUMP SCHEMATICS.

2. PROVIDE SUCTION GUIDE, TRIPLE DUTY VALVE AND WALL—MOUNTED VFD FOR EACH PUMP.

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ELECTRICAL
MECHANICAL
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SECURITY

1022 WHITE CLOVER WAY MISSISSAUGA, ONTARIO L5V 1C8 T (905)-290-7861 F (289)-327-3420

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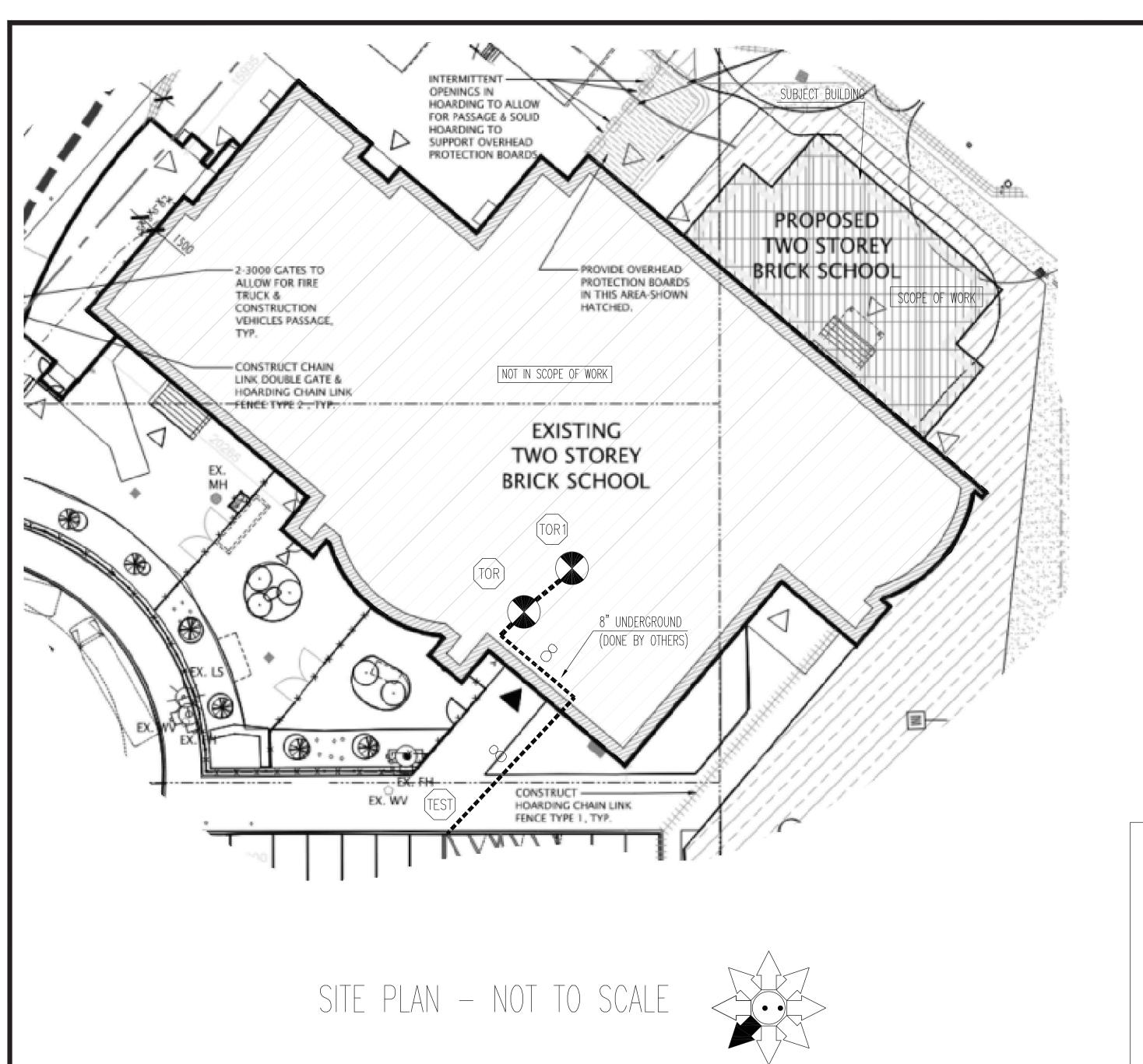


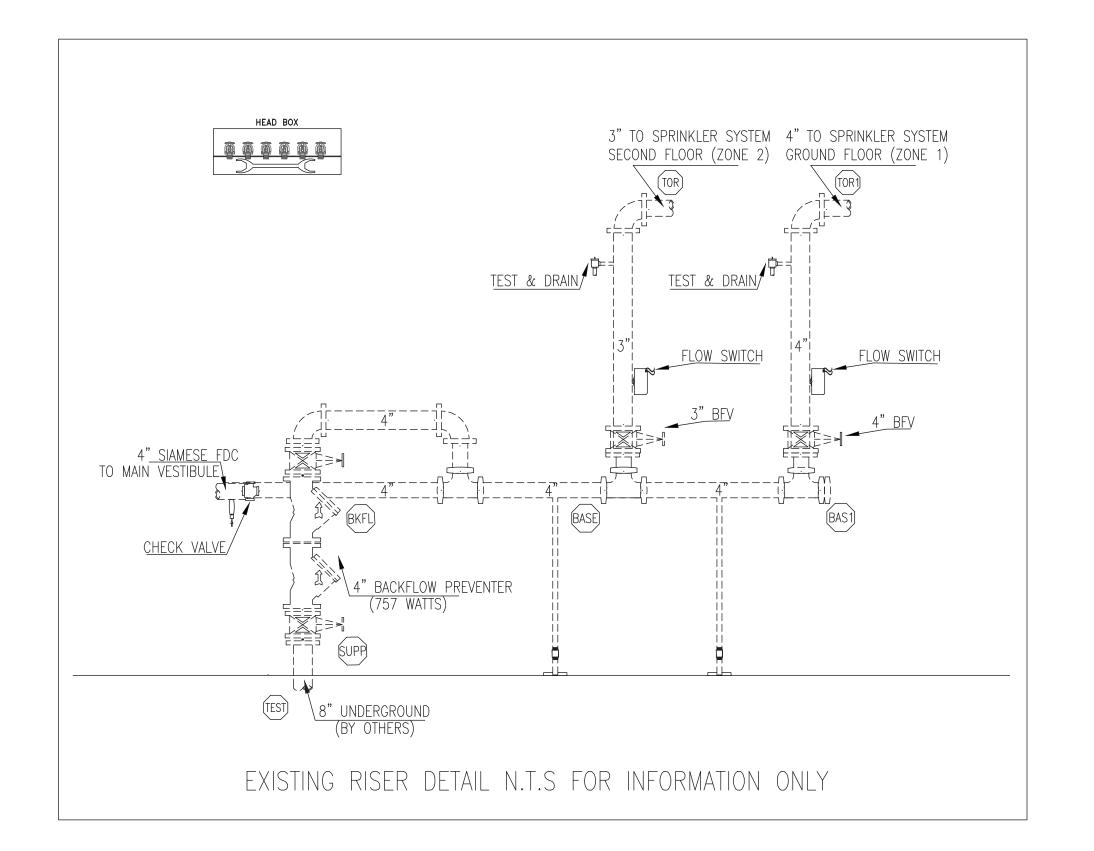
ÉÉC SAINT-MICHEL Classrooms Addition

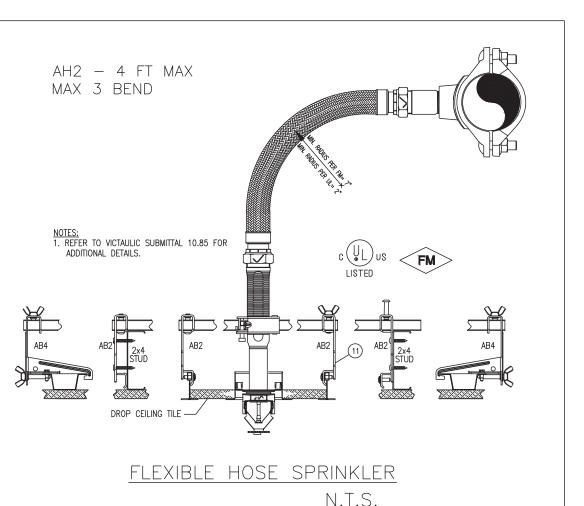
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

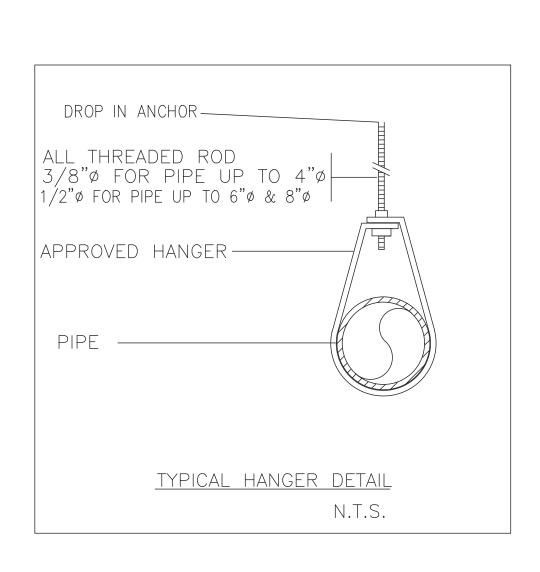
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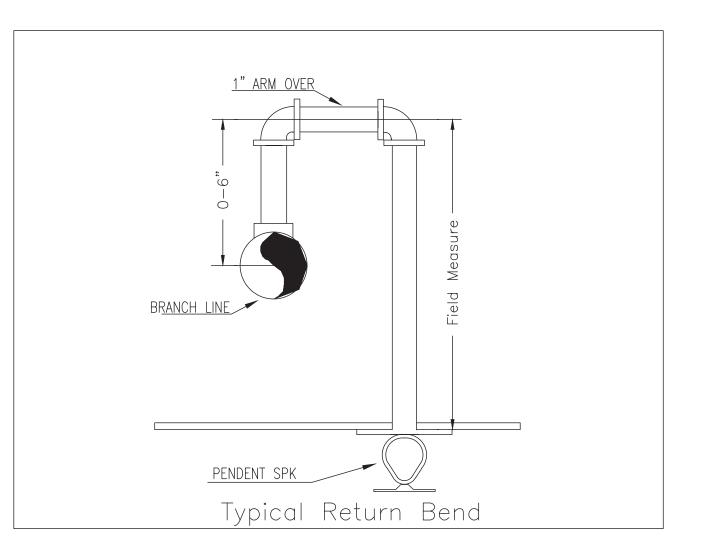
OJECT NO:	SCALE:	
2-192		
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.S.		
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SCOPE OF WORK:

DESIGN SPRINKLER SYSTEM IN NEW SCHOOL ADDITON FOR ST. MICHEL FRENCH CATHOLIC ELEMENTARY SCHOOL @ 29 MEADOWVALE ROAD, TORONTO, TO MEET NFPA 13-2013 STANTARD AND ONTARIO BUILDING CODE 2012.

DESIGN CRITERIA:

CLASSROOMS 104 & 105 GROUND FLOOR:

DESIGN IS BASED UPON LIGHT HAZARD OCCUPANCY WITH DENSITY OF 0.10 OVER 1500 SQ/FT. DESIGN AREA REDUCED BY 40% TO 900 SQ/FT BASED ON 10'-0" CEILING HEIGHT AND QUICK RESPONSE HEADS AS PER NFPA 13 -2013 11.2.3.2.3.1.

CLASSROOMS 202 & 203 SECOND FLOOR:

DESIGN IS BASED UPON LIGHT HAZARD OCCUPANCY WITH DENSITY OF 0.10 OVER 1500 SQ/FT. DESIGN AREA REDUCED BY 40% TO 900 SQ/FT BASED ON 10'-0" CEILING HEIGHT AND QUICK RESPONSE HEADS AS PER NFPA 13 -2013 11.2.3.2.3.1.

*ALL PIPING TO BE INSTALLED AND TESTED AS PER NFPA STANDARD. *ALL MATERIAL INSTALLED TO BE ULC LISTED APPROVED.

*ALL HANGERS TO BE INSTALLED AS PER NFPA STANDARD. *SPRINKLER COVERAGE'S: 225 SQ.FT MAX FOR LIGHT HAZARDS AREA USING $\frac{1}{2}$ " QUICK RESPONSE HEADS. *SPRINKLER COVERAGE'S: 324 SQ.FT MAX FOR LIGHT HAZARDS AREA USING EXTENDED COVERAGE ¾" QUICK RESPONSE HEADS. *DRAWING SUBJECT TO CITY OF TORONTO FIRE DEPARTMENT, BUILDING DEPARTMENT & OWNER APPROVALS.

*FINAL LOCATION AND ELEVATION OF PIPES TO BE CO-ORDINATED ON SITE.

*ALL DIMENSIONS ARE CENTERLINE TO CENTERLINE. *ALL CONTROL VALVES TO BE ELECTRICALLY SUPERVISED AND CONNECTED TO THE FIRE ALARM SYSTEM BY OTHERS. *ALL WATER FLOW SWITCHES AND PRESSURE ALARM SWITCHES SHALL TO CONNECTED TO THE FIRE ALARM SYSTEM BY OTHERS. *ALL ELECTRICAL WIRING, ELECTRICAL TRACING AND PIPE INSULATION FOR ALL WET SPRINKLER LINES LOCATED IN UNHEATED AREAS BY OTHERS.

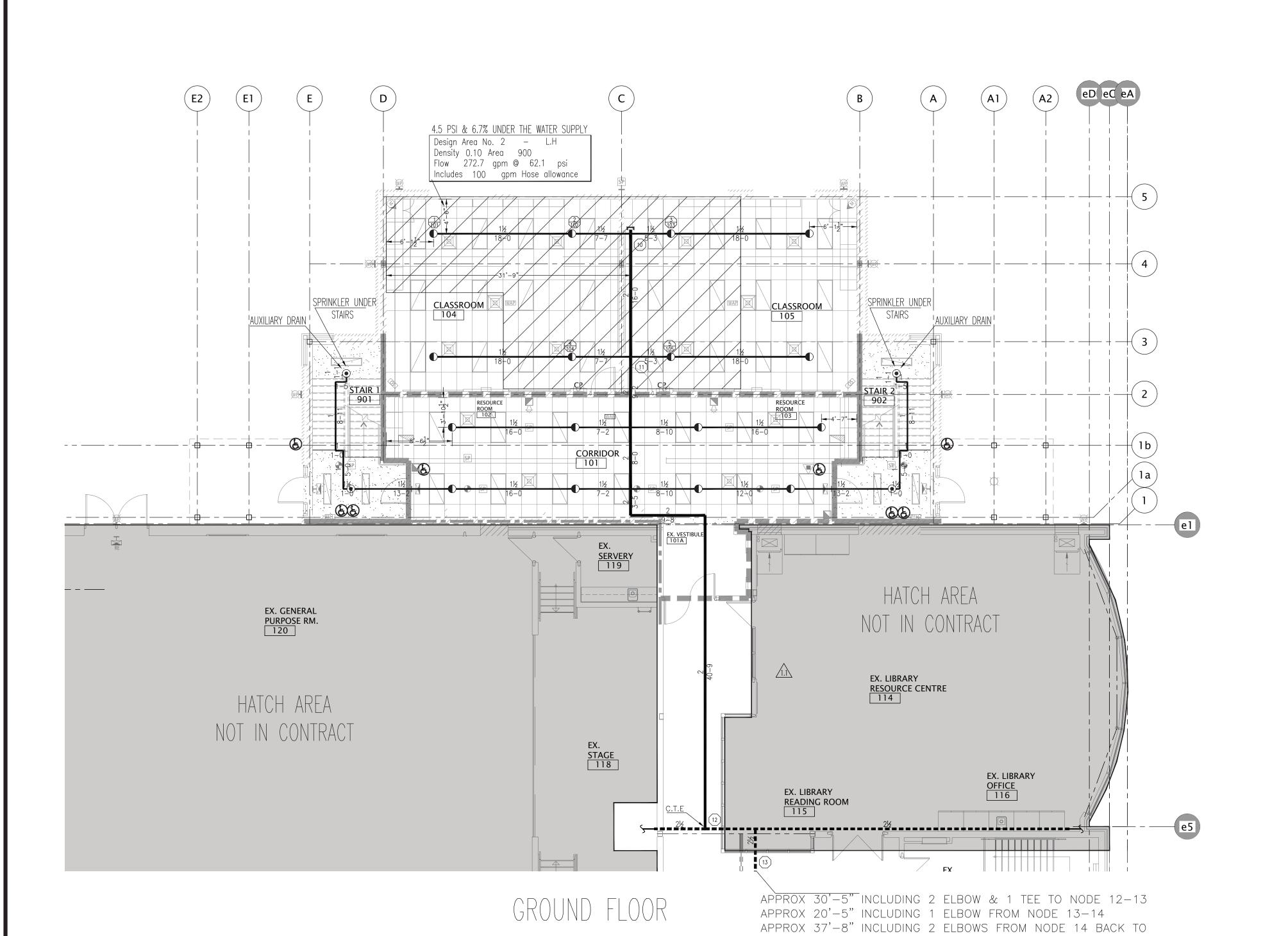
ALL PIPING 1" AND SMALLER TO BE SCH 40. ALL PIPING 1 $\frac{1}{4}$ " AND LARGER TO BE SCH 10. *THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE BUILDING SITE AND REPORT ANY DISCREPANCIES TO THE PREMISES DEPARTMENT PRIOR TO PROCEEDING WITH WORK.

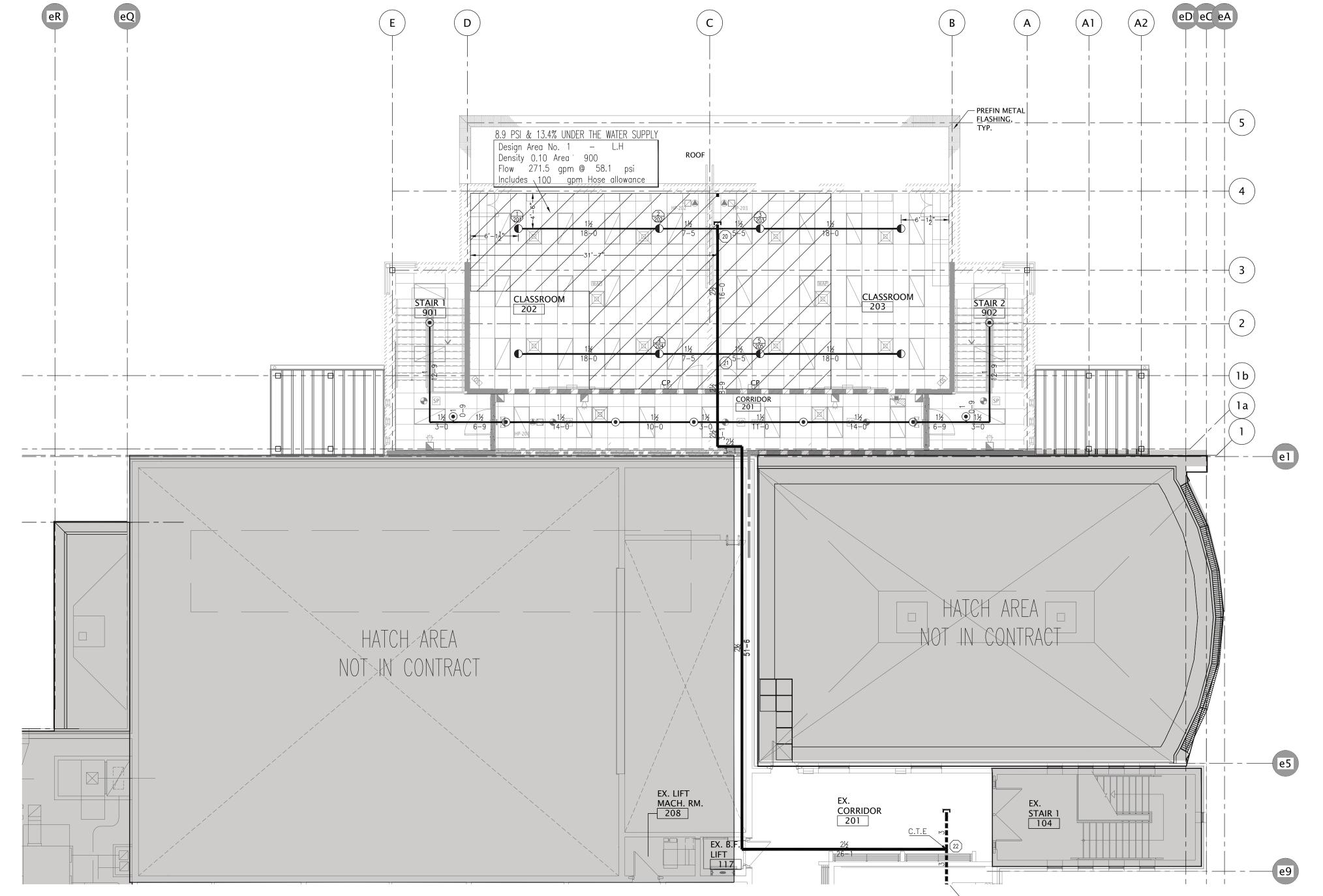
*DO NOT SCALE DRAWING. *OWNERS TO ENSURE ADEQUATE HEAT OF 4 DEGREES CELSIUS TO PREVENT ALL PIPING FROM FREEZING. *FLEX PIPE TO BE USED FOR THE INSTALLATION OF DROPS.

*CORING ,CUTTING, PATCHING OF WALLS AND CEILING TO BE DONE BY OTHERS. *FLOW TEST DATA TAKEN, AS FOLLOW: JACON FIRE PROTECTION INC.

AT SPRINKLER BASE OF RISER

STATIC PRESSURE: 72 PSI FLOW: 397.00 USGPM @ 61.00 PSI





APPROX 128' INCLUDING 8 ELBOW & 1 TEE BACK TO THE SPRINKLER RISER 2 SECOND FLOOR. SEE RISER DETAIL FOR CONTINUATION



EMAIL: SERVICES@EPI-FPS.CA

WEB SITE: WWW.EPI-FPS.CA

FOR CONTINUATION

THE SPRINKLER RISER TOR1 GROUND FLOOR. SEE RISER DETAIL

Date:

01.29.24

1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor. 2. All Dimensions Shown are Center to Center.

General Notes

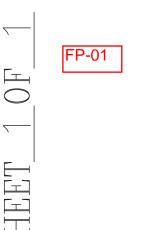
3. High Temperature Heads are to be Field Located Where Required. 4. All Pipes and Hangers are to be Installed per NFPA #13. 5. Hangers are to be U.L. Listed and F.M. Approved.

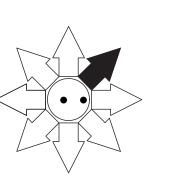
D ₁	rawing Legend Number of Sprinklers					Drawing	CIASSI	DUUNG	ADDITION	
Symbol	Description	Total Th	his Sheet Total This Job		Title	CLASSI		ADDITION		
\bigcirc	Hydraulic Reference Points	Symbol		Descr	ription		G I I N			Engineer Stan
[18 Bts]	Elev. Below Top of Steel		24 TY5237 (3/4"	K=11.2,155F	F) E.C SEMI RECCESSED Q.R	18X18	Contract No.	J30329		
[8–6]	Elev. Above Finished Floor	•	13 TY3531 (1/2"	K=5.6,155F)	S.C Q.R CONCEALED C/W WH	HITE PLATES	Drawn By	M.BASSILY		OROFESSION.
+ (TOS 20-0)	Elev. of Top of Steel		NEW SPRINKLER I	PIPE			Drawn by	M.DAOSILI		FEB. 06, 20
10-0	Ceiling Height		- EXISTING SPRINKL	ER PIPE			1	/8 = 1'-0"		S CONTRACTOR DESCRIPTION
/	Denotes Hanger Location						Scale ¹	70 - 1 0		M. M. BASSIL
0	Rise up or down						Doto JAN	UARY 29 2024		
							Date JAN	CANT NO NON-	1 2	Course of
							Annerral Pr	ΔН.І		CE OF O

ST. MICHEL CATHOLIC ELEMENTARY SCHOOL Engineer Stamp 29 MEADOWVALE ROAD TORONTO, ONTARIO M1C 1R7 Contractor:

M. M. BASSILY

EPI FIRE PROTECTION & SECURITY 675 GARYRAY DRIVE TORONTO, ONTARIO - M9L 1R2





LIGHTING LEGEND A1 STANDARD TYPE 'A1' LIGHT FIXTURE AS SCHEDULED TYPE 'A1' LIGHT FIXTURE AS SCHEDULED, CONNECTED TO THE EMERGENCY POWER SOURCE (INVERTER) B1 WALL-MOUNTED TYPE 'B1' LIGHT FIXTURE AS SCHEDULED	
TYPE 'A1' LIGHT FIXTURE AS SCHEDULED, CONNECTED TO THE EMERGENCY POWER SOURCE (INVERTER)	
EMERGENCY POWER SOURCE (INVERTER)	
B1 WALL-MOUNTED TYPE 'B1' LIGHT FIXTURE AS SCHEDULED	
\$ LOW-VOLTAGE, TOGGLE LIGHT SWITCH.	
\$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	
\$0S 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	

	POWER DEVICES & EQUIPMENT LEGEND
Ф	SINGLE RECEPTACLE MOUNTED AT STANDARD HEIGHT; USE AND RATING FOR THE PURPOSE INTENDED
Ø	SINGLE RECEPTACLE MOUNTED AT HIGH LEVEL; USE AND RATING FOR THE PURPOSE INTENDED
Ф	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
Ø	15A, 12OV, GFI DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
	DIRECT POWER CONNECTION
	UNFUSED DISCONNECT SWITCH
ď	FUSED DISCONNECT SWITCH
	DIRECT POWER CONNECTION COMPLETE UNFUSED DISCONNECT SWITCH
\Box	BLANK COVERPLATE COMPLETE WITH WIRING, CONDUIT, AND BACKBOX
J	ROUND JUNCTION BOX COMPLETE WITH COVERPLATE
J	SQUARE JUNCTION BOX COMPLETE WITH COVERPLATE
	RECESSED ELECTRICAL PANEL, AS SCHEDULED
	SURFACE-MOUNTED ELECTRICAL PANEL, AS SCHEDULED
CC-1	DEVICE/EQUIPMENT CONNECTED TO CIRCUIT #1 IN PANEL 'CC'

	COMMUNICATIONS (VOICE/DATA) LEGEND
∇	DATA OUTLET (2 CABLES PER DROP) MOUNTED AT STANDARD HEIGHT COMPLETE WITH CATEGORY 6, FT6 CABLING (2 CABLES) TO THE DESIGNATED HUB ROOM
•	TELEPHONE OUTLET (2 CABLES PER DROP) MOUNTED AT STANDARD HEIGHT COMPLETE WITH CATEGORY 6, FT6 CABLING (2 CABLES) TO THE TELEPHONE SWITCH
	DATA OUTLET (2 CABLES PER DROP) MOUNTED AT HIGH LEVEL COMPLETE WITH CATEGORY 6, FT6 CABLING (2 CABLES) TO THE DESIGNATED HUB ROOM
*	TELEPHONE OUTLET (2 CABLES PER DROP) MOUNTED AT HIGH LEVEL COMPLETE WITH CATEGORY 6, FT6 CABLING (2 CABLES) TO THE DESIGNATED TELEPHONE SWITCH
WAP	WIRELESS ACCESS POINT COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE DESIGNATED HUB ROOM

	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
<u>О</u> н	'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
ĒH	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
	120V SMOKE ALARM C/W BATTERY BACKUP
	PULL STATION C/W TAMPERPROOF, POLYCARBONATE COVER
	FIRE ALARM HORN
	FIRE ALARM HORN/STROBE
	DUCT SMOKE DETECTOR
TL	REMOTE TROUBLE INDICATOR
FS	SPRINKLER/STANDPIPE FLOW SWITCH
SV	SPRINKLER/STANDPIPE SUPERVISED VALVE
SC	SENTRONIC CLOSER DEVICE
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	ACCESS CONTROL SYSTEM LEGEND
CR	CARD READER
ES	ELECTRIC STRIKE

AIPHONE MASTER STATION

AIPHONE DOOR STATION

AIPHONE SUB-MASTER STATION

THE LOCAL DOOR ALARM SYSTEM

LOCAL DOOR CONTACT SUPPLIED AND INSTALLED BY DIVISION 16; TIED TO

AUDIBLE/VISUAL ANNUNCIATOR TIED TO THE LOCAL DOOR ALARM SYSTEM

			SECURITY SYSTEM LEGEND
		M	MOTION DETECTOR
1		DC	MAGNETIC DOOR CONTACT TIED TO THE INTRUSION ALARM SYSTEM
		KP	KEYPAD
1		ES	ELECTRIC STRIKE
		© >	CCTV CAMERA
1	,		

	CLOCK SYSTEM LEGEND
_	ANALOG CLOCK, 120V PLUG—IN TYPE COMPLETE WITH SINGLE RECEPTACLI — WALL—MOUNTED
	ANALOG CLOCK, 120V PLUG—IN TYPE COMPLETE WITH SINGLE RECEPTACLI — WALL—MOUNTED
Фмс	DIGITAL CLOCK TIED TO THE MASTER CLOCK SYSTEM — WALL—MOUNTED
→ MC	DUAL—FACE DIGITAL CLOCK TIED TO THE MASTER CLOCK SYSTEM — WALL—MOUNTED
₽во	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	EMPTY BACKBOX COMPLETE WITH BLANK COVERPLATE AND 25mmC UP TO THE ACCESSIBLE CEILING SPACE PROVISION FOR FUTURE AV CABLING
	PUBLIC ADDRESS (P.A.) SYSTEM LEGEND
S	P.A. SPEAKER — FLUSH CEILING—MOUNTED
SH	P.A. SPEAKER — WALL—MOUNTED
→ S →	P.A. SPEAKER, DUAL-FACE TYPE — WALL-MOUNTED
DSH	P.A. EXTERIOR HORN — WALL—MOUNTED
	WEATHERPROOF PROGRAM BELL C/W ENCLOSURE
HSH	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
scH	P.A. SPEAKER C/W INTEGRATED CALL SWITCH
	P.A. COMBINATION SPEAKER AND CLOCK UNIT — WALL-MOUNTED
РА	P.A. HEAD-END EQUIPMENT RACK

P.A. SATELLITE EQUIPMENT RACK

ACRONYM LEGEND

<u>ACRONYM</u> <u>DESCRIPTION</u>

CONNECT TO EXISTING DENOTES EXISTING DEVICE OR EQUIPMENT TO BE RELOCATED DENOTE EXISTING DEVICE OR EQUIPMENT TO REMAIN DENOTE DEVICE OR EQUIPMENT WITH GFI PROTECTION DENOTES DEVICE OR EQUIPMENT AT HIGH LEVEL

LOW VOLTAGE DENOTES NEW DEVICE OR EQUIPMENT DENOTES NIGHT LIGHT FIXTURE

DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED DENOTES RELOCATED POSITION OF AN EXISTING DEVICE OR EQUIPMENT DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REPLACED DENOTES ROOFTOP DEVICE OR EQUIPMENT

T-SLOT, 20A, DEVICE DENOTES TAMPERPROOF DEVICE OR EQUIPMENT DENOTES DEVICE OR EQUIPMENT WITH A WIREGUARD DENOTES WEATHERPROOF TYPE DEVICE OR EQUIPMENT

GENERAL NOTES

- IT IS MANDATORY 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.
- 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.
- THESE DRAWINGS SHALL BE READ & PRICED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AS WELL AS ALL OTHER DOCUMENTS FORMING THIS BID. INCLUDE FOR THE SUPPLY AND INSTALLATION OF POWER, SYSTEMS, AND LIGHTING AS PER THE COMPLETE CONSTRUCTION DOCUMENTS. NO EXTRA COST WILL BE ACCEPTED IN FAILURE TO OBTAINING AND/OR REVIEW OF SUCH DOCUMENTS. REFER TO ARCHITECTURAL, ELECTRICAL, STRUCTURAL AND MECHANICAL LAYOUTS IN CONJUNCTION FOR EXACT LOCATION OF ALL EQUIPMENT. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER PRIOR TO COMMENCING WORK. NO EXTRA WILL BE PROVIDED AS A RESULT OF A FAILURE TO DO SO.
- 4. IT IS MANDATORY THAT ELECTRICAL WORK CONFORM TO ALL APPLICABLE CODES (INCLUDING THE ONTARIO BUILDING, FIRE, AND ONTARIO ELECTRICAL SAFETY CODE), SCHOOL BOARD STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- 5. ALL ELECTRICAL WORK SHALL BE INSPECTED BY THE ELECTRICAL SAFETY AUTHORITY (ESA). ARRANGE AND PAY FOR ALL INSPECTIONS REQUIRED FOR THE DURATION OF
- 6. 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.
- 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.
- 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.
- 9. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
- 10. 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 AND NOTES
E2	FIRST FLOOR KEY PLAN
E3	SECOND FLOOR KEY PLAN
E4	EXISTING ELECTRICAL DEMOLITION PLANS
E5	NEW POWER & SYSTEMS PLANS
E6	NEW LIGHTING PLANS
E7	SCHEDULES & SCHEMATICS
E8	SCHEDULES & SCHEMATICS

PUBLIC ADDRESS SYSTEM

THE EXISTING PUBLIC ADDRESS SYSTEM VENDOR SERVICING THE SCHOOL IS 'BARRIE COMMUNICATIONS EQUIPMENT LTD.'. BARRIE COMMUNICATIONS IS RESPONSIBLE FOR SUPPLYING ALL PUBLIC ADDRESS SYSTEM DEVICES, MASTER CLOCK SYSTEM DEVICES AND CABLING REQUIRED FOR THIS PROJECT. THE BIDDING ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ALL COSTS ASSOCIATED WITH BARRIE COMMUNICATIONS AS PART OF THEIR BASE TENDER PRICE. ALL ROUGH-INS FOR THE PUBLIC ADDRESS SYSTEM AND CLOCK SYSTEM SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR AS PART OF THE BASE

VOICE, DATA, SECURITY AND ACCESS CONTROL SYSTEM

ALL ROUGH-INS (CONDUIT AND BACKBOX) FOR THE VOICE, DATA, SECURITY AND ACCESS CONTROL SYSTEMS SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR AS PART OF THE BASE TENDER PRICE. THE VOICE, DATA, SECURITY AND ACCESS CONTROL VENDORS WILL BE RETAINED BY THE SCHOOL BOARD THROUGH THE ALLOCATED CASH ALLOWANCE.

PHASE 1 - SUMMER WORK

THE CONTRACTOR SHALL COMPLETE ALL DEMOLITION AND NEW WORK INSIDE THE EXISTING SCHOOL DURING THE SUMMER TIME IN ADVANCE OF STUDENTS RETURNING TO SCHOOL.

- THIS INCLUDES: 1. ALL DEMOLITION WORK AT THE CONNECTION OF THE NEW ADDITION TO THE EXISTING SCHOOL.
- ALL WORK INSIDE THE EXISTING LIBRARY.
- ALL WORK INSIDE THE EXISTING SECOND FLOOR MECHANICAL ROOM.
- ALL WORK INSIDE THE EXISTING GYMNASIUM TO RELOCATE THE EXIT. ALL NEW FEEDERS, CABLING, CONDUIT, ETC. WORK INSIDE THE EXISTING BUILDING
- REQUIRED FOR SERVICING THE NEW ADDITION (FIRE ALARM, PUBLIC ADDRESS, SECURITY, ACCESS CONTROL, VOICE/DATA, ELECTRICAL PANEL FEEDER, ETC.)

ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.

GENERAL NOTES

. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO

BE CHECKED AND VERIFIED ON THE JOB. ALL

DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

. ALL MATERIALS AND WORKMANSHIP SHALL

COMPLY WITH THE REQUIREMENTS OF THE

- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 1. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- . THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 3. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD.

ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

MISSISSAUGA, ONTARIO L5V 1C8 T (905)-290-7861 F (289)-327-3420

ARCHITECTS INC.

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763



ÉÉC SAINT-MICHEL Classrooms Addition

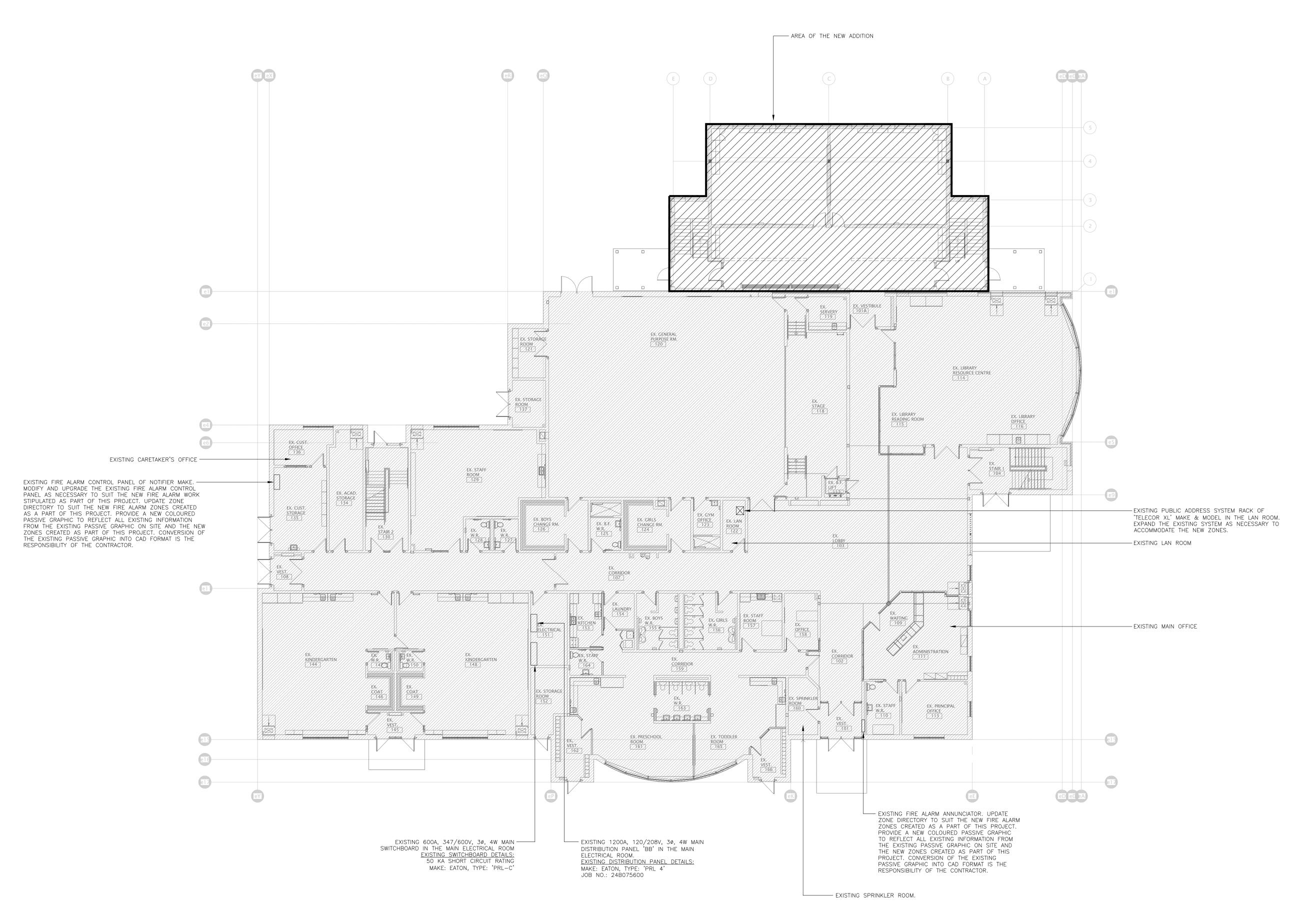
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7 DRAWING TITLE:

NOTES

ELECTRICAL LEGEND AND

PROJECT NO: SCALE 22-192 DRAWN: DRAWING NO: REV CHECKED:



 7
 04/04/24 ISSUED FOR TENDER

 6
 02/29/24 ISSUED FOR TENDER

 5
 07/31/23 ISSUED FOR TENDER

 4
 02/22/23 RE-ISSUED FOR PERMIT

 3
 02/10/23 ISSUED FOR PERMIT

 2
 01/20/23 ISSUED FOR 85% DESIGN REVIEW

 1
 10/21/22 ISSUED FOR 60% DESIGN REVIEW

 NO.
 DATE: REVISION

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.

2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.

3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.

4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.

6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD. ENGINEERING CONSULTANTS

> ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:

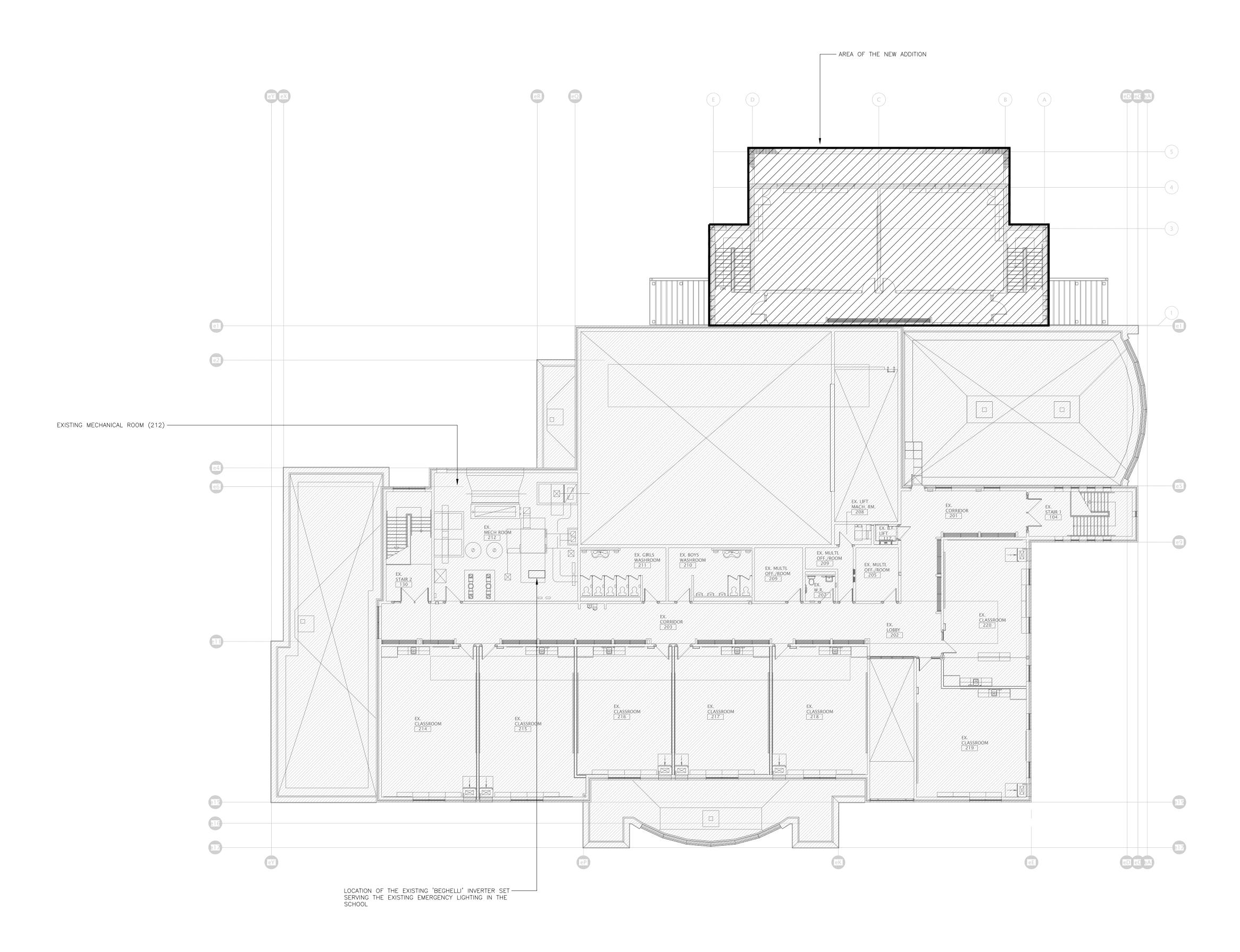
FIRST FLOOR KEY PLAN

PROJECT NO:
22-192

DRAWN:
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CHECKED:
R.S.
DATE:

1 FIRST FLOOR KEY PLAN

E2 SCALE: 1:150



DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.

2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.

3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.

4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.

6. ALL DIMENSIONS GIVEN ARE IN METRIC.

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29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

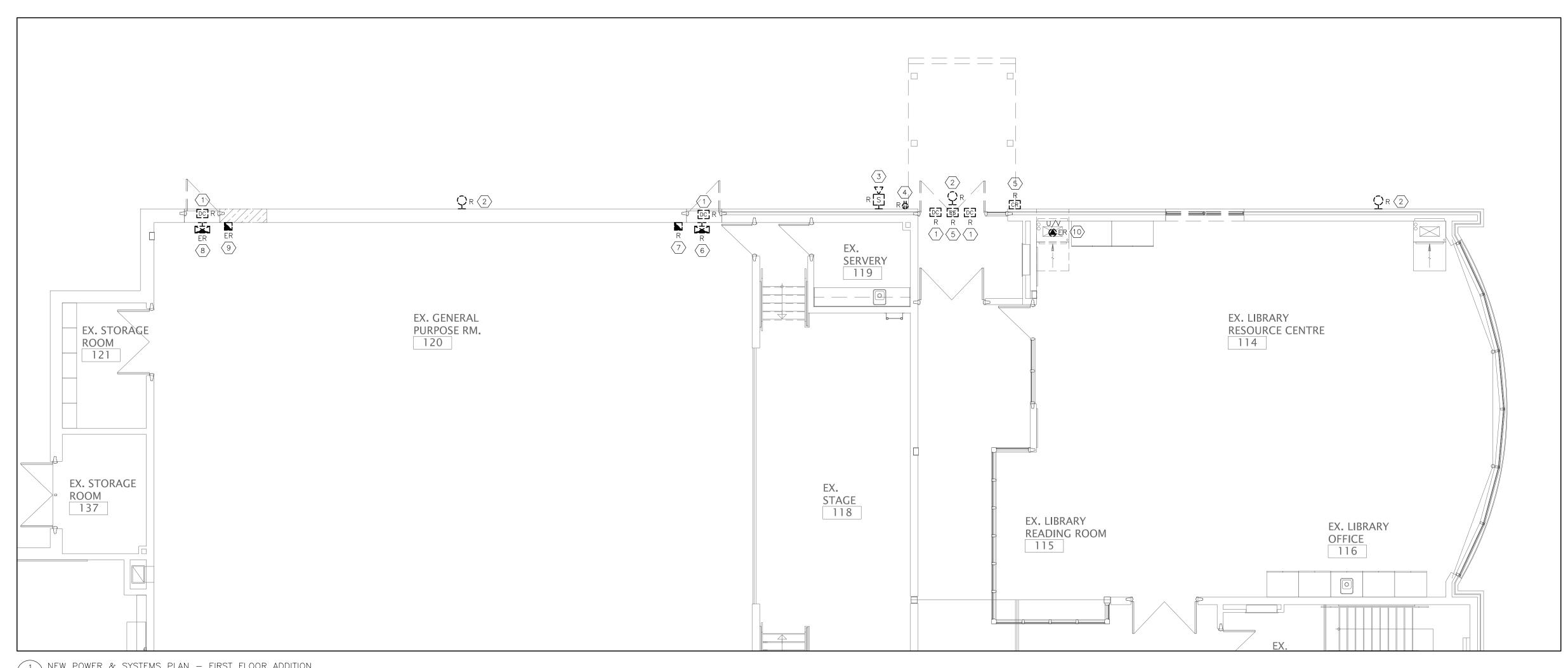
DRAWING TITLE:

SECOND FLOOR KEY PLAN

JECT NO:	SCALE:		April
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1 SECOND FLOOR KEY PLAN

E3 SCALE: 1:150



1 NEW POWER & SYSTEMS PLAN - FIRST FLOOR ADDITION

E4 SCALE: 1:75

- 1 REMOVE THE EXISTING DOOR CONTACT. REMOVE ALL REDUNDANT WIRING/RACEWAYS TO THE SOURCE.
- $\langle 2 \rangle$ REMOVE THE EXISTING WALL-MOUNTED LIGHT FIXTURE. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- 3 REMOVE THE EXISTING PA HORN. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- 4 REMOVE THE EXISTING OUTDOOR RECEPTACLE. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- 5 REMOVE THE EXISTING CARD READER AND ELECTRIC STRIKE. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- (6) REMOVE THE EXISTING EXIT SIGN. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- $\overline{\langle 7 \rangle}$ REMOVE THE EXISTING PULL STATION. REMOVE ALL REDUNDANT WIRING/RACEWAYS.
- 8 RELOCATE THE EXISTING EXIT SIGN AND WIREGUARD TO SUIT THE NEW ENLARGED DOOR OPENING. MODIFY WIRING/RACEWAYS AS REQUIRED.
- 9 relocate the existing fire alarm pull station to suit the New enlarged door opening. Modify wiring/raceways as required.
- DISCONNECT POWER CONNECTION TO THE EXISTING UNIT VENTILATOR. EXTEND WIRING/RACEWAYS TO THE NEW UNIT VENTILATOR LOCATION. SEE NEW PLAN FOR LOCATION.

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS
ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.

. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.

3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.

4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.

6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD. ENGINEERING CONSULTANTS

Kingsland +

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ph 416.203.7799

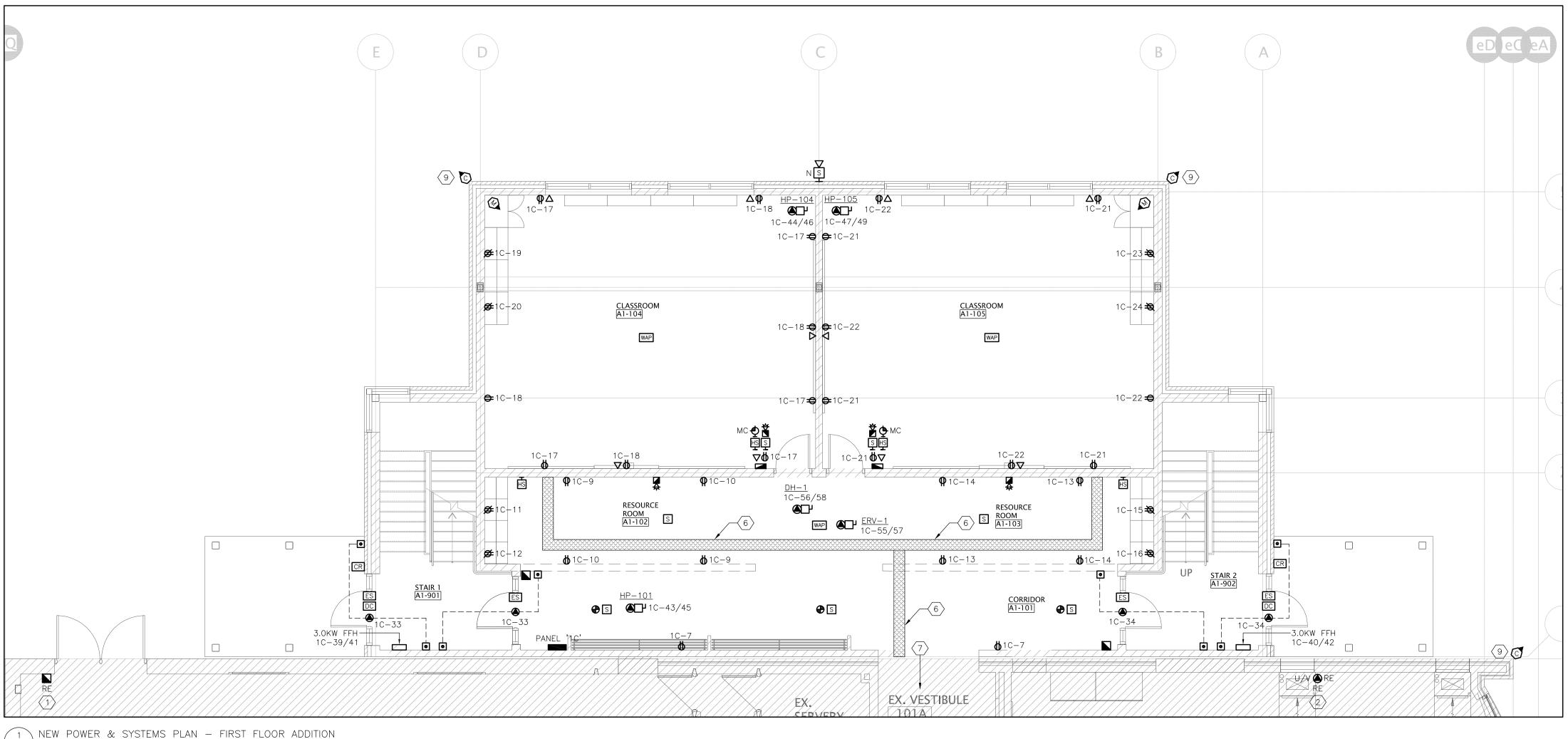
fax 416 203 7763

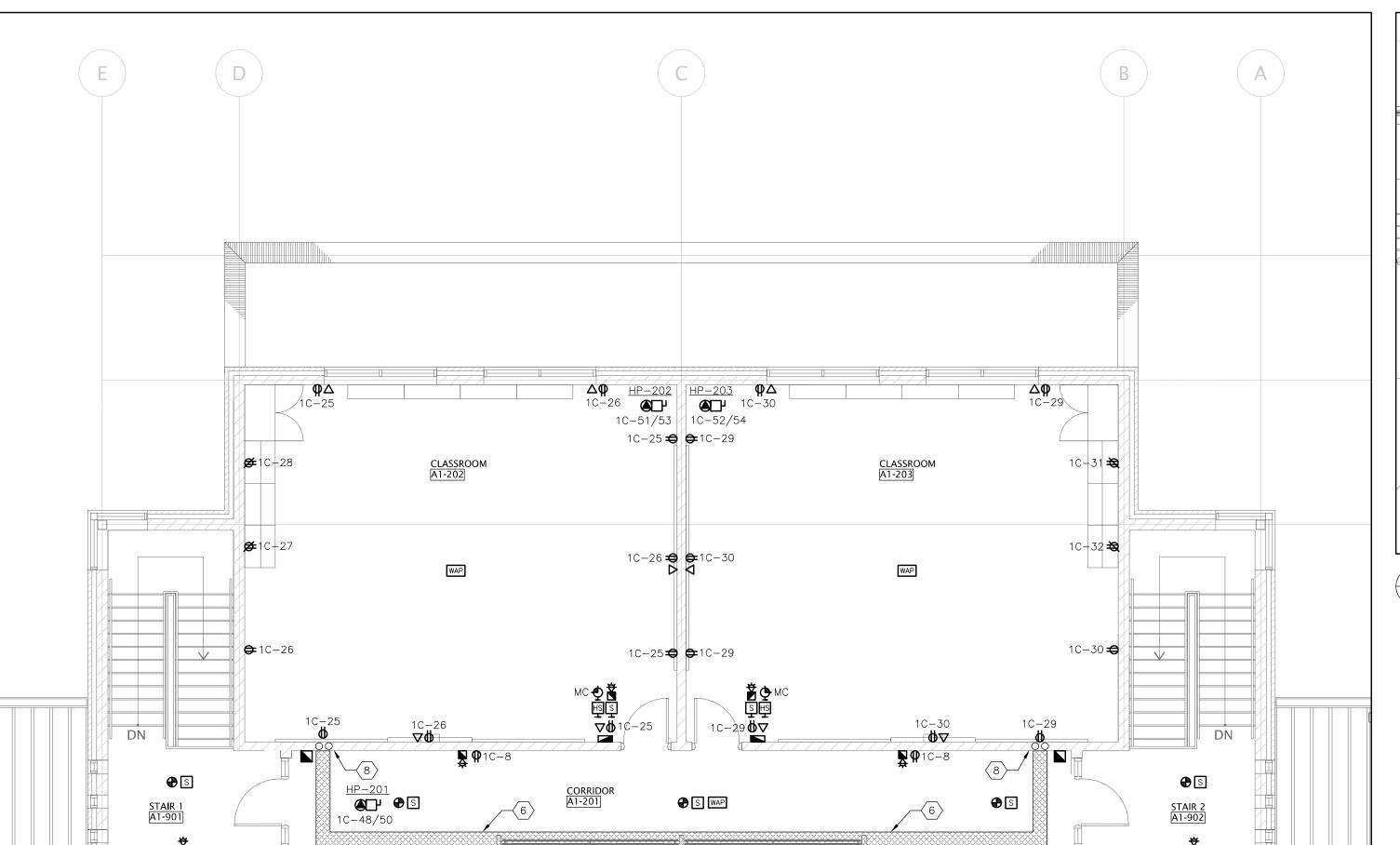
ÉÉC SAINT-MICHEL Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE: EXISTING ELECTRICAL DEMOLITION PLANS

PROJECT NO: SCALE: 22-192 DRAWN: DRAWING NO: REV. CHECKED:





3 EXISTING & NEW POWER & SYSTEMS PLAN - MECHANICAL ROOM 212
E5 SCALE: 1:75

GENERAL NOTES:

- 1. ALL DEVICES, EQUIPMENT AND MATERIALS SHOWN ARE NEW AND TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL ROUGH—INS SHALL BE RECESSED IN THE NEW WALLS. ALL RACEWAYS SHALL BE CONCEALED IN THE WALLS OR ABOVE THE DROP CEILINGS.
- 2. ALL NEW RECEPTACLES SHALL BE OF 'TAMPER RESISTANT' TYPE. LOCATE AS PER HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONNECT TO THE CIRCUIT(S) NOTED.
- 3. FOR ALL FIRE ALARM WORK, SUPPLY AND ININSTALL DEVICES AS PER CAN/ULC-S524 AND VERIFY AS PER CAN/ULC-S537.
- 3.1. CONNECT ALL INITIATING FIRE ALARM DEVICES IN CORRIDOR (101), RESOURCE ROOMS (102) AND (103) AND CLASSROOMS (104 AND (105) TO THE NEW FIRE ALARM ZONE FZ-12.
 3.2. CONNECT ALL FIRE ALARM DEVICES IN CORRIDOR (201) AND CLASSROOMS (202) AND (203) TO FIRE ALARM ZONE
- 3.3. CONNECT ALL INITIATING FIRE ALARM DEVICES IN STAIR #1 TO FIRE ALARM ZONE FZ-14.
 3.4. CONNECT ALL INITIATING FIRE ALARM DEVICES IN STAIR #2 TO FIRE ALARM ZONE FZ-15.
 3.5. PROVIDE MINIMUM TWO (2) NEW SIGNALING CIRCUIT DEDICATED FOR THE NEW ADDITION SIGNALING DEVICES FROM THE FIRE ALARM CONTROL PANEL.
- 4. COORDINATE ALL POWER ROUGH-INS AND FINAL CONNECTIONS WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT PRIOR TO COMMENCING ROUGH-IN; SEE MECHANICAL DRAWINGS FOR APPROXIMATE EQUIPMENT LOCATION.
- 5. COORDINATE ALL POWER ROUGH-INS AND FINAL CONNECTIONS WITH THE DOOR HARDWARE INSTALLER FOR ALL DOOR OPERATORS PRIOR TO COMMENCING ROUGH-IN. ALL RACEWAYS AND LOW-VOLTAGE WIRING FOR THE DOOR OPERATORS AND ASSOCIATED KEY SWITCHES SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 6. PROVIDE J-HOOKS IN THE ADDITION AND THE EXISTING SCHOOL AS REQUIRED TO SUPPORT LOW-VOLTAGE CABLING IN AREAS NOT EQUIPPED WITH CABLE TRAYS. IN CORRIDOR SPACES, UTILIZE THE CABLE TRAY.
- 7. ALL PUBLIC ADDRESS (SPEAKERS AND HANDSETS), DIGITAL CLOCKS AND ALL ASSOCIATED CABLING SHALL BE SUPPLIED AND INSTALLED BY THE PUBLIC ADDRESS SYSTEM VENDOR (BARRIE COMMUNICATIONS) AS PART OF THE BASE TENDER PRICE. ALL PROGRAMMING SHALL BE COMPLETED BY BARRIE COMMUNICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM AS PART OF THE BASE TENDER PRICE.
- 8. ALL VOICE, DATA AND SECURITY ROUGH-INS SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR AS PART OF THE BASE TENDER PRICE. ALL CABLING AND DEVICE INSTALLATION WILL BE COMPLETED BY THE RESPECTIVE LOW-VOLTAGE CONTRACTORS RETAINED THROUGH THE CASH ALLOWANCE. ALL WIRELESS ACCESS POINTS ARE TO BE SUPPLIED BY THE SCHOOL BOARD AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 9. ALL MODULAR CONTROL PANELS ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 10. FORCED FLOW HEATERS IN THE STAIRCASES ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
 HEATERS SHALL BE OUELLET OACO4000—T OR APPROVED EQUAL COMPLETE WITH WHITE FINISH AND SURFACE MOUNTING

DRAWING NOTES:

- RELOCATED FIRE ALARM PULL STATION FROM THE OLD EXIT FROM THE GYM. MODIFY/EXTEND ALL WIRING/RACEWAYS AS REQUIRED. INSTALL AS PER CAN/ULC-S524 AND VERIFY AS PER CAN/ULC-S537. VERIFY DEVICE IMMEDIATELY AFTER
- $\overline{2}$ relocated power connection for the unit ventilator. Modify/extend all Wiring/Raceways as required.
- DISCONNECT AND REMOVE POWER CONNECTION TO THE EXISTING PUMPS P-1 & P-2 IN ENTIRETY. REMOVE ALL ASSOCIATED WIRING/RACEWAYS TO PANEL 'DP-CC'. REMOVE ALL ASSOCIATED VFDs AND DISCONNECT SWITCHES. REMOVE THE EXISTING BREAKER IN THE PANEL.
- 4 PROVIDE NEW POWER CONNECTION (THROUGH THE NEW VFD), WIRING, RACEWAY AND LOCAL DISCONNECT SWITCH TO THE NEW PUMPS P-1 AND P-2. PROVIDE NEW 15A-3P BREAKERS (ONE FOR EACH PUMP) IN PANEL 'DP-CC'. SEE DRAWING E7 FOR FEEDER SIZE.
- (5) EXISTING 400A, 347/600V, 30, 4W DISTRIBUTION PANEL 'DP-CC' TO REMAIN. REMOVE THE EXISTING 2 X 25A-3P BREAKERS SERVING PUMPS P-1 AND P-2 AND PROVIDE 2 X NEW 40A-3P BREAKERS TO SERVE THE UPGRADED PUMPS P-1 AND P-2. EXISTING PANEL IS OF EATON 'PRL 4' MAKE & MODEL.
- (6) PROVIDE A NEW CABLE TRAY THROUGHOUT THE ADDITION ON THE FIRST FLOOR AND SECOND FLOOR AS SHOWN. CABLE TRAY SHALL BE LEGRAND CABLOFIL (941122) OR EQUAL. CABLE TRAY SHALL BE 12" WIDE X 6" HIGH, BLACK FINISH, STAINLESS STEEL 316L.
- SUPPLY, INSTALL AND EXTEND THE NEW CABLE TRAY 80' INTO THE EXISTING CORRIDOR. EXACT ROUTING TO BE CONFIRMED ON SITE WITH THE ENGINEER DURING CONSTRUCTION. CABLE TRAY SHALL BE LEGRAND CABLOFIL (941122) OR EQUAL. CABLE TRAY SHALL BE 12" WIDE X 6" HIGH, BLACK FINISH, STAINLESS STEEL 316L.
- PROVIDE 2 X 2" EMPTY CONDUITS (C/W PULL STRING) BETWEEN THE FIRST AND SECOND FLOOR CEILING SPACE TO TRANSFER LOW-VOLTAGE CABLING FROM THE SECOND FLOOR TO THE FIRST FLOOR.
- PROVIDE A CCTV CAMERA ROUGH—IN COMPLETE WITH CONDUIT TO THE ACCESSIBLE CEILING SPACE AT ALL LOCATIONS SHOWN. CCTV CAMERA IS TO BE SUPPLIED AND INSTALLED THROUGH THE CASH ALLOWANCE. INCLUDE FOR ONE (1) ADDITIONAL ROUGH—IN BEYOND THE QUANTITY SHOWN AT GRIDLINES E9 AND EA (SEE DRAWING E2 FOR LOCATION; IT IS AT THE CORNER OF THE EXISTING STAIRCASE).

	04/04/24 ISSUED FOR TENDER	02/29/24 SSUED FOR TENDER	07/31/23 SSUED FOR TENDER	02/22/23 RE-ISSUED FOR PERMIT	02/10/23 ISSUED FOR PERMIT	01/20/23 ISSUED FOR 85% DESIGN REVIEW	10/21/22 ISSUED FOR 60% DESIGN REVIEW	REVISION
	04/04/24	02/29/24	07/31/23	02/22/23	02/10/23	01/20/23	10/21/22	NO DATE:
	2	9	2	4	3	2	1	2

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.
- . THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

SURI & ASSOCIATES LTD ENGINEERING CONSULTANTS

> ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

1022 WHITE CLOVER WAY MISSISSAUGA, ONTARIO L5V 1C8 T (905)-290-7861

Kingsland -

KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b Toronto, Ontario M6K 3J1

ph 416.203.7799 fax 416.203.7763



ÉÉC SAINT-MICHEL
Classrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

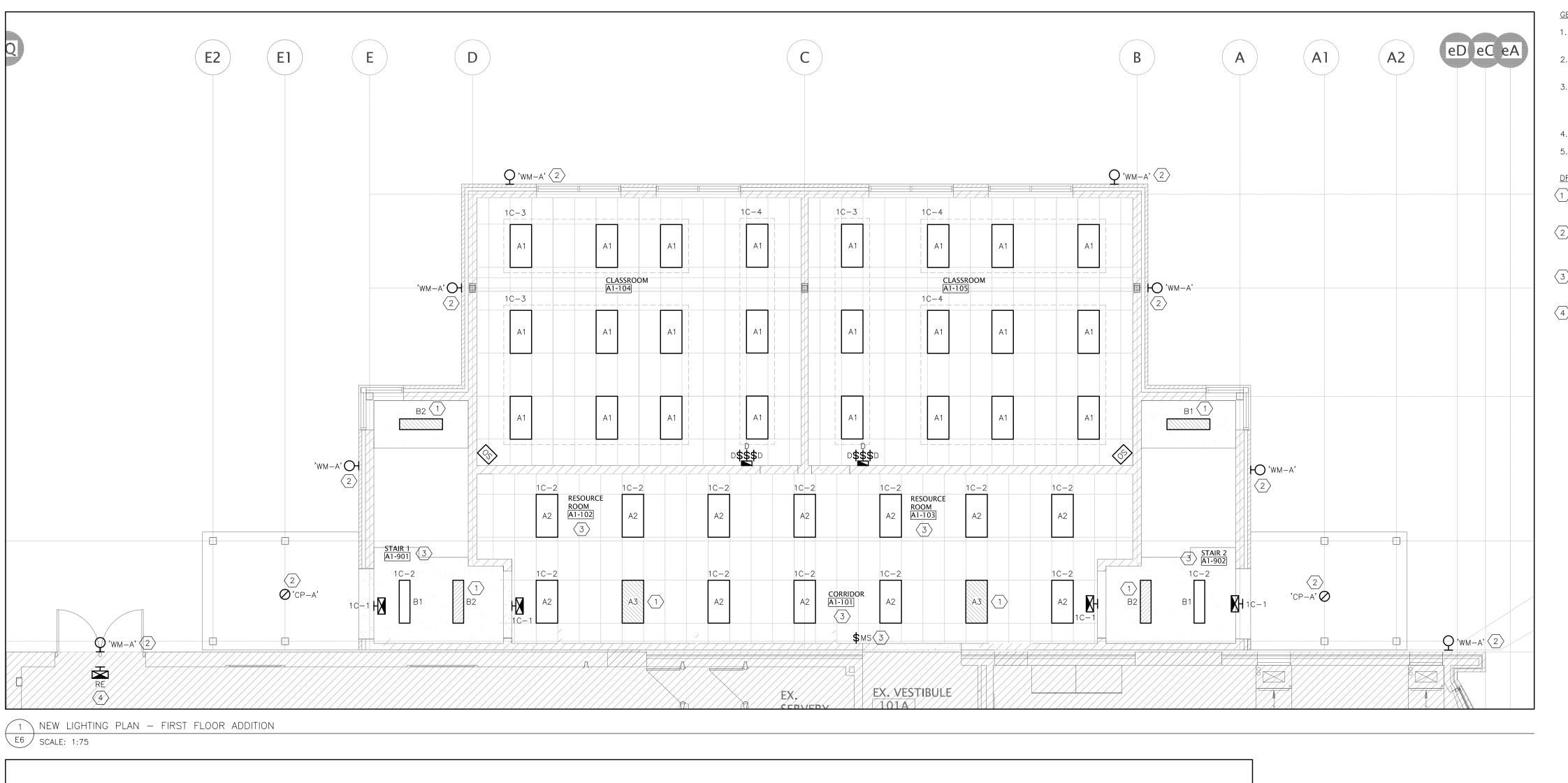
DRAWING TITLE:

NEW POWER & SYSTEMS
PLANS

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PROJECT NO:	SCALE:		<
22-192			, 7
DRAWN:	DRAWING NO:	REV.	
R.S.			=
CHECKED:			(
R.S.			
DATE:			(

2 NEW POWER & SYSTEMS PLAN — SECOND FLOOR ADDITION E5 SCALE: 1:75

E5 | SCALE: 1:75



GENERAL NOTES:

- 1. ALL DEVICES, EQUIPMENT AND MATERIALS SHOWN ARE NEW UNLESS OTHERWISE NOTED AND TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 2. PROVIDE NEW DEVICES, EQUIPMENT AND SYSTEMS AS SHOWN. PROVIDE TWO (2) SAFETY CHAINS PER LIGHT FIXTURE FASTENED TO THE BUILDING STRUCTURE TO SUPPORT THE FIXTURE INDEPENDENT OF THE GRID SYSTEM.
- 3. SEE THE 'LIGHTING CONTROL SCHEDULE' FOR THE DETAILS AND SPECIFICATION OF ALL LIGHTING CONTROL DEVICES (SWITCHES AND OCCUPANCY SENSORS). ALL LIGHTING CONTROLS SHALL BE LOW-VOLTAGE, UNLESS NOTED OTHERWISE. ALL LIGHTING CONTROLS ARE TO BE COMMISSIONED ON SITE BY ACUITY'S REPRESENTATIVE. SEE THE 'LIGHTING CONTROL SCHEDULE' FOR LIGHTING ZONES REQUIRING 0-10V WIRING AND DIMMING CAPABILITY.
- 4. INSTALL ALL NEW LIGHT SWITCHES ONTO THE NEW MODULAR CONTROL PANEL WHERE PRESENT.
- 5. TEST ALL EMERGENCY LIGHTING AFTER INSTALLATION TO ENSURE CONTINUED OPERATION FOR A PERIOD OF 30 CONTINUOUS MINUTES OR LONGER. PROVIDE A LETTER CERTIFYING THE SAME TO THE CONSULTANT AFTER VERIFICATION.

DRAWING NOTES

- CONNECT THE SELECT LIGHT FIXTURES TO THE EXISTING INVERTER SET SERVING THE SCHOOL. CONNECT ALL LIGHTS TO A NEW INVERTER—BACKED DEDICATED CIRCUIT. PROVIDE NEW WIRING/RACEWAYS TO THE INVERTER PANEL IN THE SECOND FLOOR MECHANICAL ROOM (212) WHERE THE EXISTING INVERTER SET IS LOCATED.
- CONNECT THE NEW EXTERIOR LIGHT FIXTURES TO THE EXISTING EXTERIOR LIGHTING CIRCUIT SERVING THE DEMOLISHED EXTERIOR WALL-MOUNTED LIGHTS. AT THE ONSET OF THE PROJECT, SITE VERIFY THE LIGHTING CIRCUIT VOLTAGE OF THE PERIMETER EXTERIOR LIGHTING AND ADVISE THE ENGINEER OF THE FINDINGS PRIOR TO SHOP DRAWING SUBMISSION O THE
- CONNECT ALL NON-EMERGENCY LIGHT FIXTURES IN THE CORRIDORS, STAIR 1, STAIR B, RESOURCE ROOM 102 AND RESOURCE ROOM 103 TO THE NEW LOW-VOLTAGE MASTER SWITCH ON THE GROUND FLOOR OF THE ADDITION. LIGHT FIXTURES SHALL ALSO BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM FOR AUTOMATIC ON/OFF.
- 4 RELOCATED EXIT SIGN AND WIREGUARD CENTERED ABOVE THE NEW DOUBLE-DOOR EXIT FROM THE GYM TO THE EXTERIOR FROM THE OLD EXIT FROM THE GYM. MODIFY/EXTEND ALL WIRING/RACEWAYS AS REQUIRED.

DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS TO BE READ IN
 CONJUNCTION WITH ALL OTHER CONTRACT
 DOCUMENTS, AND SPECIFICATIONS.
- 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.
- 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.
- 6. ALL DIMENSIONS GIVEN ARE IN METRIC.

MECHANICAL & ELECTRICAL CONSULTANT:

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fax 416.203.7763



ÉÉC SAINT-MICHELClassrooms Addition

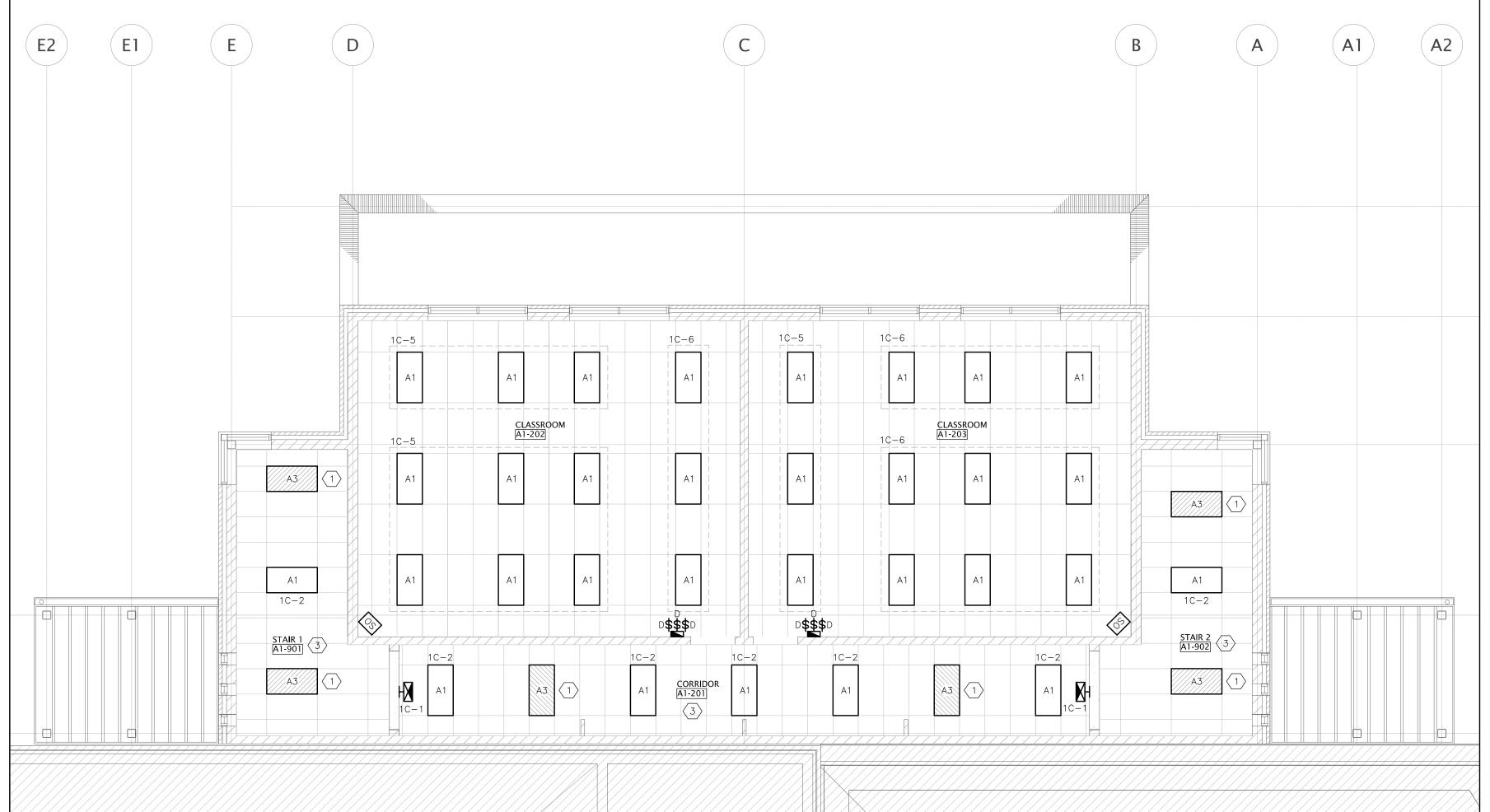
29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO

M1C 1R7

DRAWING TITLE:

NEW LIGHTING PLANS

PROJECT NO:	SCALE:	
22-192		
DRAWN:	DRAWING NO:	REV.
R.S.		
CHECKED:		
R.S.		
DATE:		



2 NEW LIGHTING PLAN - FIRST FLOOR ADDITION

E6 SCALE: 1:75

ROOM/ZONE	LIGHT SWITCH	OCCUPANCY SENSORS	POWER PACK REQUIREMENTS	NOTES
CLASSROOM (A1-104)	3 x nPODM DX GY	1 x nWV PDT 16 KIT	3 x nPP16D 3 x nPP20 PL	PROVIDE 0-10V DIMMING OF THE SINGLE LIGHTING ZONE 50% OF THE RECEPTACLES, SPACED THROUGHOUT THE ROOM, SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR IN THE ROOM
CLASSROOM (A1-105)	3 x nPODM DX GY	1 x nWV PDT 16 KIT	3 x nPP16D 3 x nPP20 PL	PROVIDE 0-10V DIMMING OF THE SINGLE LIGHTING ZONE 50% OF THE RECEPTACLES, SPACED THROUGHOUT THE ROOM, SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR IN THE ROOM
CLASSROOM (A1-202)	3 x nPODM DX GY	1 x nWV PDT 16 KIT	3 x nPP16D 3 x nPP20 PL	PROVIDE 0-10V DIMMING OF THE SINGLE LIGHTING ZONE 50% OF THE RECEPTACLES, SPACED THROUGHOUT THE ROOM, SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR IN THE ROOM
CLASSROOM (A1-203)	3 x nPODM DX GY	1 x nWV PDT 16 KIT	3 x nPP16D 3 x nPP20 PL	PROVIDE 0-10V DIMMING OF THE SINGLE LIGHTING ZONE 50% OF THE RECEPTACLES, SPACED THROUGHOUT THE ROOM, SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR IN THE ROOM
CORRIDOR (A1-101) RESOURCE ROOM (A1-102) RESOURCE ROOM (A1-103) CORRIDOR (A1-201) STAIR 1 (A1-901) STAIR 2 (A1-902)	1 x nPOD KEY MNTN STS	_	1 x nPP16D	NO DIMMING REQUIRED; LIGHTING ZONES SHALL BE CONTROLLED BY THE BAS SYSTEM FOR AUTOMATIC TURN-OFF AFTER OCCUPIED HOURS.

NOTES:

- 1. THE PROPOSED LIGHTING CONTROL SYSTEM IS BASED ON ACUITY'S nLIGHT SYSTEM. ALL PRODUCTS LISTED ABOVE BELONG TO THE ACUITY PRODUCT LINE.
- 2. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL DEVICES LISTED ABOVE.
- 3. PRIOR TO PRICING, THE CONTRACTOR IS EXPECTED TO FAMILIARIZE THEMSELVES WITH THE INSTALLATION OF THE SPECIFIED LIGHTING CONTROL SYSTEM AND INCLUDE FOR ALL MATERIAL AND LABOUR REQUIRED FOR A COMPLETE AND OPERATIONAL LIGHTING CONTROL SYSTEM.
- 4. THE FULL LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED BY THE MANUFACTURER ON SITE UPON COMPLETE INSTALL. THE COST FOR THE COMMISSIONING SHALL BE INCLUDED FOR IN THE TENDER PRICE.
- 5. ALL 0-10V AND CAT5E WIRING/CABLING REQUIRED FOR THE BASIS OF THE LIGHTING CONTROL SYSTEM IS TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT. ALL CAT5E CABLING SHALL BE PROCURED THROUGH ACUITY ONLY. USE OF ALTERNATE CABLING IS NOT PERMITTED. ALL 0-10V WIRING IS TO BE AS APPROVED BY ACUITY.
- 6. THE OPERATION OF THE ENTIRE LIGHTING CONTROL SYSTEM SHALL BE IN COMPLIANCE WITH ASHRAE 90.1.

1 LOW-VOLTAGE LIGHTING & RECEPTACLE CONTROL SCHEDULE

E7 SCALE: N.T.S.

FIXTURE LOCATION	FIXTURE TYPE	MOUNTING CONFIGURATION	VOLTAGE	FIXTURE SIZE	LUMEN PACKAGE	COLOUR TEMPERATURE	LED COLOUR RENDERING	DIMMING	MAKE & MODEL	NOTES
INTERIOR	'A1'	RECESSED; T-BAR CEILING	120V	2'X4'	4800 LUMENS	4000K	80 CRI	0-10V 1% MINIMUM	MARK ARCHITECTURAL LIGHTING WHSPR-2X4-80CRI -40K-4800LM-MIN1-MVOLT-SWC-ZT	_
INTERIOR	'A2'	RECESSED; T-BAR CEILING	120V	2'X4'	4000 LUMENS	4000K	80 CRI	0-10V 1% MINIMUM	MARK ARCHITECTURAL LIGHTING WHSPR-2X4-80CRI -40K-4000LM-MIN1-MVOLT-SWC-ZT	-
INTERIOR	'A3'	RECESSED; T-BAR CEILING	347V	2'X4'	4000 LUMENS	4000K	80 CRI	0-10V 1% MINIMUM	MARK ARCHITECTURAL LIGHTING WHSPR-2X4-80CRI -40K-4000LM-MIN1-347-SWC-ZT	-
INTERIOR	'B1'	RECESSED; T-BAR CEILING	120V	1'X4'	4000 LUMENS	4000K	80 CRI	0-10V 1% MINIMUM	MARK ARCHITECTURAL LIGHTING WHSPR-1X4-80CRI -40K-4000LM-MIN1-MVOLT-SWC-ZT	-
INTERIOR	'B2'	RECESSED; T-BAR CEILING	347V	1'X4'	4000 LUMENS	4000K	80 CRI	0-10V 1% MINIMUM	MARK ARCHITECTURAL LIGHTING WHSPR-1X4-80CRI -40K-4000LM-MIN1-347-SWC-ZT	-
EXTERIOR	'WM-A'	WALL— MOUNTED	347V	-	2965 LUMENS	3000K	>70 CRI	NO AUX. DIMMING REQUIRED	LITHONIA DSXW1-20C-350-40K-T3M-HVOLT- PIR1FC3V-VG-DDBXD	TYPE III, MEDIUM DISTRIBUTION; C/W INTEGRAL OCCUPANCY SENSOR; 23 WATTS
EXTERIOR	'CP-A'	WALL— MOUNTED	347V	_	3620 LUMENS	3000K	>70 CRI	NO AUX. DIMMING REQUIRED	LITHONIA VCPG LED-V4-P1-30K-T5M-347-PM-WG- PIR3FC3V-DDBXD	TYPE T5M (TYPE V, MEDIUM) DISTRIBUTION; C/W INTEGRAL OCCUPANCY SENSOR; 27 WATTS

NOTES:

- 1. SUBMIT A COMPLETE SET OF PHOTOMETRICS FOR THE INTERIOR AND EXTERIOR AT THE TIME OF SHOP DRAWING SUBMISSION.
- 2. ALL RECESSED TROFFER LIGHT FIXTURES SHALL BE SUPPORTED USING TWO SAFETY CHAINS (EACH) FASTENED TO THE BUILDING STRUCTURE.
 3. APPROVED EQUALS: EATON OR HUBBELL ONLY.

2 LIGHT FIXTURE SCHEDULE

E7 | SCALE: N.T.S.

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?
HEAT PUMP, HP-101	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	30A-3P	2#10 RW90+G IN 21mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
HEAT PUMP, HP-104	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	40A-2P	2#8 RW90+G IN 27mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
HEAT PUMP, HP-105	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	40A-2P	2#8 RW90+G IN 27mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
HEAT PUMP, HP-201	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	30A-3P	2#10 RW90+G IN 21mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
HEAT PUMP, HP-202	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	40A-2P	2#8 RW90+G IN 27mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
HEAT PUMP, HP-203	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	40A-2P	2#8 RW90+G IN 27mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
ENERGY RECOVERY VENTILATOR, ERV-1	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	20A-2P	2#10 RW90+G IN 21mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
DUCT HEATER, DH-1	INTEGRAL TO UNIT	INTEGRAL	_	208V/1PH/60Hz	20A-2P	2#10 RW90+G IN 21mmC	PANEL '1C'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH.	YES	YES
PUMP P-1	MECH. ROOM 212	VFD	_	575V/3PH/60Hz	40A-3P	3#8 RW90+G IN 27mmC	EXISTING PANEL 'DP-CC'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH INDEPENDENT OF VFD.	NO	YES
PUMP P-2	MECH. ROOM 212	VFD	_	575V/3PH/60Hz	40A-3P	3#8 RW90+G IN 27mmC	EXISTING PANEL 'DP-CC'	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE UNIT. PROVIDE LOCAL DISCONNECT SWITCH INDEPENDENT OF VFD.	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. ALL LOOSE STARTERS (MANUAL OR MAGNETIC TYPE AS STATED) SHALL BE SUPPLIED AND INSTALLED BY DIVISION 26. STARTER LOCATIONS SHALL BE VERIFIED AND CO-ORDINATED WITH DIVISION 23 AND CONSULTANT ON SITE. INTEGRAL STARTER WILL BE BUILT-IN
 THE MECHANICAL EQUIPMENT AND SUPPLIED & INSTALLED BY THE EQUIPMENT MANUFACTURER. ACCEPTABLE MANUFACTURER FOR LOOSE STARTERS SHALL BE CUTLER HAMMER, SIEMENS SQUARE D AND KLOCKNER MOELLER. ALL MAGNETIC STARTER SHALL BE C/W
 OVERLOAD PROTECTION, H/O/A SWITCH AND GREEN-RUN AND RED-STOP PILOT LAMPS. ALL MANUAL STARTERS SHALL BE C/W OVERLOAD PROTECTION AND GREEN-RUN AND RED-STOP PILOT LAMP.
- 3. 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.
- 4. 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 SHOP DRAWINGS BACK APPROVED BY BOTH THE MECHANICAL 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.
- 5. THE STARTER LOCATION AND TYPE LISTED ABOVE IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND MANUFACTURER CUT SHEETS AND EQUIPMENT DATA SHEETS FOR STARTER INFORMATION. NO EXTRA WILL BE PERMITTED AS A RESULT OF A FAILURE TO DO SO.
- 6. WHERE NOTED THAT AN AIR HANDLING UNIT/EXHAUST FAN IS TO HAVE FIRE ALARM FAN SHUTDOWN, PROVIDE THE NECESSARY WIRING, CONDUIT AND RELAYS TO TIE THE EQUIPMENT TO THE FIRE ALARM SYSTEM FOR SHUTDOWN ON A GENERAL ALARM.
- 7. COORDINATE COIL VOLTAGE FOR ALL STARTERS WITH THE CONTROLS CONTRACTOR WHERE THE EQUIPMENT IS NOTED TO BE TIED TO THE BAS SYSTEM.

3 MECHANICAL EQUIPMENT WIRING SCHEDULE

E7 SCALE: N.T.S.

NEW PANEL '1C' 120V/208V, 3PH, 4W		TYPE: MAINS: MAIN BI	KR:	2	– 200 200		-3P		MOUNTING: SURFACE-MOUNTED LOCATION: CORRIDOR (A1-101)		
WATTS	DESCRIPTION	PROT.		CIR	CUI	TS		PROT.	DESCRIPTION	WATTS	
	EXIT SIGNS	15A	1	—	L		2	15A	CORRIDOR LIGHTING		
	INTERIOR LIGHTING	15A	3		┡		4	15A	INTERIOR LIGHTING		
	INTERIOR LIGHTING	15A	5				6	15A	INTERIOR LIGHTING		
	CORRIDOR RECEPTACLES	15A	7		_		8	15A	CORRIDOR RECEPTACLES		
	RECEPTACLES	15A	9		↓		10	15A	RECEPTACLES		
	RECEPTACLES	15A	11				12	15A	RECEPTACLES		
	RECEPTACLES	15A	13		L		14	15A	RECEPTACLES		
	RECEPTACLES	15A	15		↓		16	15A	RECEPTACLES		
	RECEPTACLES	15A	17		L		18	15A	RECEPTACLES		
	RECEPTACLES	15A	19		L		20	15A	RECEPTACLES		
	RECEPTACLES	15A	21		┡		22	15A	RECEPTACLES		
	RECEPTACLES	15A	23		L		24	15A	RECEPTACLES		
	RECEPTACLES	15A	25	∤ I	\perp		26	15A	RECEPTACLES		
	RECEPTACLES	15A	27	∤ 	↓		28	15A	RECEPTACLES		
	RECEPTACLES	15A	29				30	15A	RECEPTACLES		
	RECEPTACLES	15A	31				32	15A	RECEPTACLES		
	DOOR OPERATORS	15A	33	∤			34	15A	DOOR OPERATORS		
	SPARE	15A	35	┤ ┃			36	15A	SPARE		
	SPARE	20A	37	∤			38	20A	SPARE		
	STAIR 1 FORCED FLOW HEATER	20A	39	- 1			40	20A	STAIR 2 FORCED FLOW HEATER		
	SIMIN T TONGED TEST THE MEN	2P	41	┤ ┃			42	2P	STAIR 2 FOROLD FLOW HEAVELY		
	HEAT PUMP, HP-101	30A	43	∤			44	40A	HEAT PUMP, HP-104		
	,	2P	45	H			46	2P	,, ,		
	HEAT PUMP, HP-105	40A	47	∤			48	30A	HEAT PUMP, HP-201		
	,	2P	49	∤			50	2P	, , , , , , , , , , , , , , , , , , , ,		
	HEAT PUMP, HP-202	40A	51	┤ ┃			52	40A	HEAT PUMP, HP-203		
	,	2P	53	∤			54	2P	,		
		20A	55	∤I			56	20A			
	ENERGY RECOVER VENTILATOR, ERV-1	2P	57	∤			58	2P	DUCT HEATER DH-1		
	SPARE	15A	59	∤			60	15A	SPARE		
	SPARE	15A	55	∤ 			56	15A	SPARE		
	SPARE	15A 15A	57	∤ 			58	15A 15A	SPARE		
	SPARE	15A 15A	59	∤ [60	15A 15A	SPARE		
	SPARE	15A	61	∤ [Ī	62	15A 15A	SPARE		
	SPARE	15A	63	∤ [64	15A 15A	SPARE		
	SPARE	15A 15A	65	∤I			66	15A 15A	SPARE		
	SPARE	15A 15A	67	∤ I	Ĺ		68	15A 15A	SPARE		
	SPARE	15A 15A	69	∤			70	15A 15A	SPARE		
	SPARE	15A 15A	71	┤ ┃			70	15A 15A	SPARE		
	SPARE	15A 15A	73	∤ I			74	15A 15A	SPARE		
	SPARE	15A 15A	75 75	∤			76	15A 15A	SPARE		
				∤ [
	SPARE	15A	77	∤ I			78	15A	SPARE		
	SPARE	15A	79	∤ [80	15A	SPARE		
	SPARE	15A	81	П	1	Т	02	15A	SPARE		

NOTES:

- 1. PROVIDE PANELBOARD C/W COVERS, COPPER BUS & DRIPHOOD.
- . 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.

	JER	DER	DER	ERMIT	MIT	DESIGN REVIE	DESIGN REVIE	
	04/04/24 ISSUED FOR TENDER	02/29/24 ISSUED FOR TENDER	07/31/23 ISSUED FOR TENDER	02/22/23 RE-ISSUED FOR PERMIT	02/10/23 SSUED FOR PERMIT	01/20/23 ISSUED FOR 85% DESIGN REVIEW	10/21/22 ISSUED FOR 60% DESIGN REVIEW	REVISION
	04/04/24	02/29/24	07/31/23	02/22/23	02/10/23	01/20/23	10/21/22	NO. DATE:
		9	2	4	3	2	_	Q.

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MECHANICAL & ELECTRICAL CONSULTANT:

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L6V 1C9
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ELECTRICAL
MECHANICAL
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KINGSLAND + ARCHITECTS INC 219 Dufferin Street, Suite 308b

Toronto, Ontario M6K 3J1 ph 416.203.7799 fax 416.203.7763

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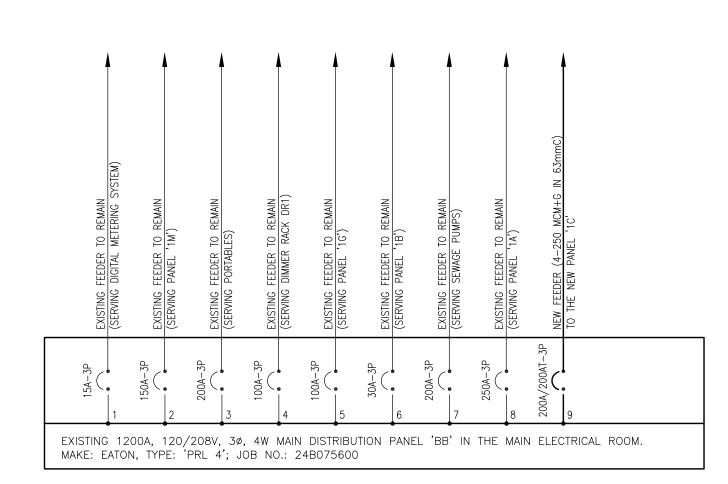
ÉÉC SAINT-MICHELClassrooms Addition

29 MEADOWVALE ROAD, SCARBOROUGH, ONTARIO M1C 1R7

DRAWING TITLE:

SCHEDULES & SCHEMATICS

PROJECT NO:	SCALE:	
22-192		
DRAWN:	DRAWING NO:	REV
R.S.		
CHECKED:		
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DATE:		

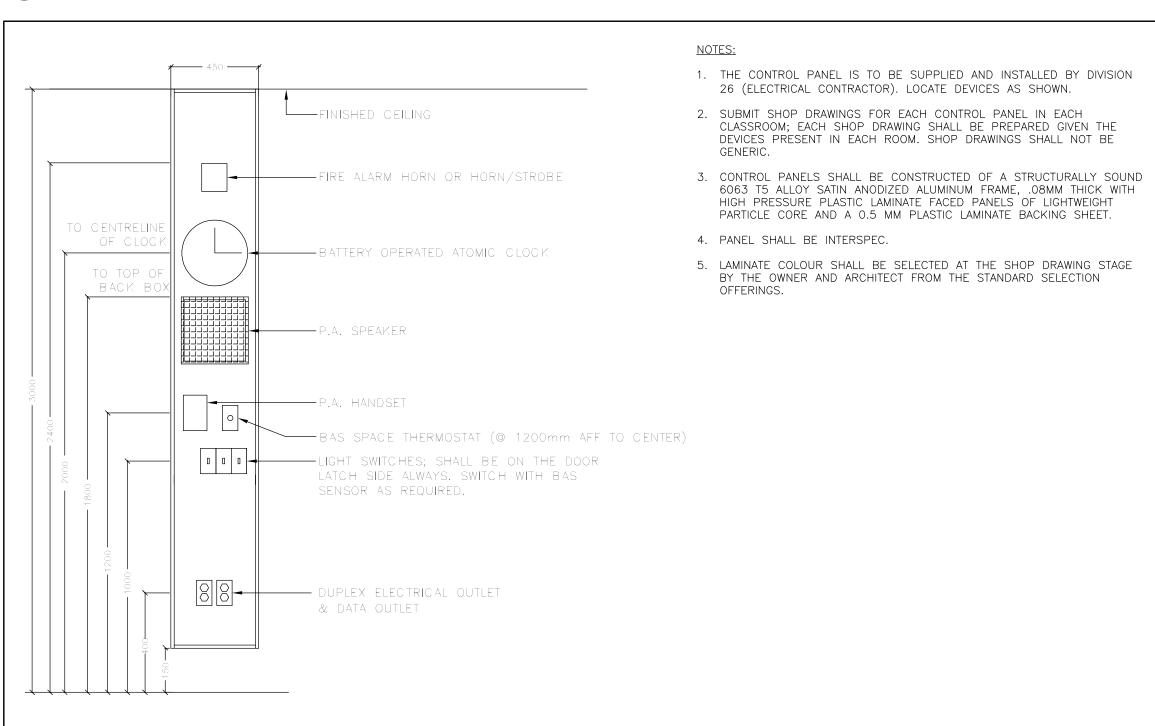


NOTES:

- 1. ALL POWER SHUTDOWN WORK SHALL BE DONE DURING 'OFF' HOURS OF BUILDING OPERATION (FOR PRICING PURPOSES, ASSUME THE WORK WILL BE COMPLETED ON WEEKEND HOURS). COORDINATE SCHEDULING WITH THE PROJECT SUPERVISOR AND CARETAKING STAFF PRIOR TO COMMENCING WORK. INCLUDE FOR ALL MATERIAL AND LABOUR REQUIRED TO COMPLETE SERVICES AND DELIVER A COMPLETELY OPERATIONAL SYSTEM.
- MODIFY/EXTEND EXISTING CONDUITS AND FEEDER CABLES/WIRING AS REQUIRED TO FACILITATE INSTALLATION OF THE NEW FEEDERS.
- PROVIDE GROUNDING AND BONDING OF ELECTRICAL EQUIPMENT AS PER ONTARIO ELECTRICAL SAFETY CODE AND ESA APPROVAL. PROVIDE A COMPLETELY NEW SHORT CIRCUIT, COORDINATION AND ARC FLASH STUDY AS PER SPECIFICATIONS FOR THE ENTIRE ELECTRICAL DISTRIBUTION SYSTEM (EXISTING AND NEW). PROVIDE SIGNAGE AT ALL ELECTRICAL EQUIPMENT AS PER RECOMMENDATION OF STUDY; REMOVE ALL EXISTING ARC FLASH LABELS ON ALL EXISTING EQUIPMENT. MAKE ALL ADJUSTMENT TO EQUIPMENT SPECIFICATIONS AND BREAKERS ON SITE AS REQUIRED TO COMPLY WITH RECOMMENDATIONS. PROVIDE A FRAMED 18"X24" SINGLE LINE DIAGRAM. POST IN THE ELECTRICAL
- ROUM. 5. PROVIDE LAMACOID LABELS ON ALL NEW BREAKERS. EXACT WORDING IS TO BE ADVISED BY THE CONSULTANT AT THE TIME OF CONSTRUCTION. 6. INCLUDE, IN THE TENDER PRICE, FOR A FIRE WATCH PERSONNEL FOR THE ENTIRE DOWNTIME DURATION OF THE FIRE ALARM SYSTEM AT THE SCHOOL. PROVIDE PERSONNEL AS PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. NOTE THAT THE FIRE WATCH MUST BE TRAINED AND EQUIPPED WITH FIRE EXTINGUISHING EQUIPMENT.
- . THE 200A—3P BREAKER FOR PANEL '1C' IS NEW AND SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. BREAKER SHALL BE OF 'LSI' TYPE AND 50 KA SHORT CIRCUIT RATED. ROUTE THE NEW FEEDER FOR PANEL '1C' FROM THE EXISTING MAIN ELECTRICAL ROOM ABOVE THE EXISTING CEILINGS IN THE CORRIDOR TO THE NEW PANEL.

1 PROPOSED SINGLE LINE DIAGRAM

E8 SCALE: N.T.S.



2 MODULAR CONTROL PANEL (MCP) DETAIL

E8 SCALE: N.T.S.

INTEGRATED	PA	&	IN-HOUSE	PHONE	SYSTEM	ZONING	SCHEDULE

FLOOR	ROOM DESCRIPTION	WALL HANDSET STATION	DESK HANDSET STATION	ADMIN HANDSET STATION	CALL SWITCH	WALL SPEAKER	CEILING SPEAKER	HORN SPEAKER	ZONE NUMBER	REMARKS
FIRST FLOOR	RESOURCE ROOM (A1-102)	/					/		1	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	RESOURCE ROOM (A1-103)	/					/		2	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CLASSROOM (A1-104)	/				/			3	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CLASSROOM (A1-105)	/				/			4	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CORRIDOR (A1-101)						/		5	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CLASSROOM (A1-202)	/				/			6	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CLASSROOM (A1-203)	/				/			7	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
	CORRIDOR (A1-201)						/		8	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
STAIRCASE	STAIR (A1-901) & (A1-902)						/		9	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING.
EXTERIOR	ALL EXTERIOR, BUILDING-MOUNTED HORNS								45	PROVIDE NEW 2-PAIR DEDICATED ZONE WIRING HOMERUN FROM EACH HORN TO THE P.A. RACK.

GENERAL NOTES:

- THE PA CONTRACTOR (BARRIE COMMUNICATIONS) SHALL RUN DEDICATED ZONE CABLING FROM EACH ZONE LISTED ABOVE TO THE P.A. RACK. TERMINATIONS AND CROSS CONNECTS AT THE P.A. RACK SHALL BE COMPLETED BY THE PA CONTRACTOR.
- THE PA CONTRACTOR SHALL SUPPLY AND INSTALL NEW P.A. HANDSETS, SPEAKERS AND HORNS AS SCHEDULED ABOVE AND AS SHOWN ON THE PLANS.
 3. TEST AND ENSURE ALL DEVICES WORK UPON COMPLETION OF INSTALL WORK.
- 3 NEW PUBLIC ADDRESS SYSTEM ZONING SCHEDULE

E8 SCALE: N.T.S.

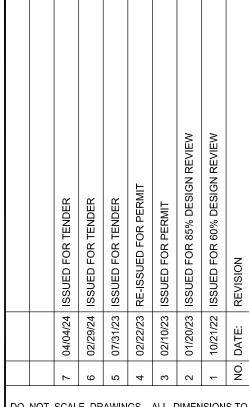
FIRE ALARM ZONE SCHEDULE

ZONE		ALARM/TROUBLE	DESCRIPTION						
ALARM	TROUBLE	ZONE NUMBER	DESCRIPTION						
	<u> </u>	FZ-1	GROUND FLOOR						
	<u> </u>	FZ-2	ELEVATOR SHAFT						
	\	FZ-3	GYM						
	/	FZ-4	EXISTING STAIR A						
	\	FZ-5	EXISTING STAIR B						
	\	FZ-6	SECOND FLOOR						
	<u> </u>	FZ-7	STORAGE ROOM 152						
	<u> </u>	FZ-8	STORAGE ROOM 137						
	\	FZ-9	PORTABLES						
	<u> </u>	FZ-10	GROUND FLOOR FLOW SWITCH						
	<u> </u>	FZ-11	SECOND FLOOR FLOW SWITCH						
	<u> </u>	FZ-12*	NORTH CLASSROOM ADDITION — GROUND FLOOR						
	/	FZ-13*	NORTH CLASSROOM ADDITION - SECOND FLOOR						
	\	FZ-14*	NORTH CLASSROOM ADDITION - NEW STAIR 1						
	/	FZ-15*	NORTH CLASSROOM ADDITION - NEW STAIR 2						
	<u> </u>	SZ-1	GROUND FLOOR SPRINKLER SUPERVISED VALVE						
	<u> </u>	SZ-2	SECOND FLOOR SPRINKLER SUPERVISED VALVE						
	<u> </u>	SZ-3	BACKFLOW PREVENTER INLET SUPERVISED VALVE						
	<u> </u>	SZ-4	BACKFLOW PREVENTER OUTLET SUPERVISED VALVE						
	<u> </u>	SZ-5	INVERTER TROUBLE						

* DENOTES NEW FIRE ALARM ZONE TO SERVE THE NEW INITIATING DEVICES IN THE RESPECTIVE AREA. ** DENOTES NEW FIRE ALARM ZONE TO SERVE THE NEW SPRINKLER FLOW SWITCHES FOR THE NEW ADDITION. COORDINATE WORK WITH THE FIRE PROTECTION CONTRACTOR *** DENOTES NEW FIRE ALARM ZONE TO SERVE THE NEW SPRINKLER SUPERVISED VALVES FOR THE NEW ADDITION. COORDINATE WORK WITH THE FIRE PROTECTION CONTRACTOR

4 FIRE ALARM ZONING SCHEDULE

E8 SCALE: N.T.S.



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DRAWING TITLE: SCHEDULES & SCHEMATICS

PROJECT NO: SCALE 22-192 DRAWN: DRAWING NO: REV CHECKED: