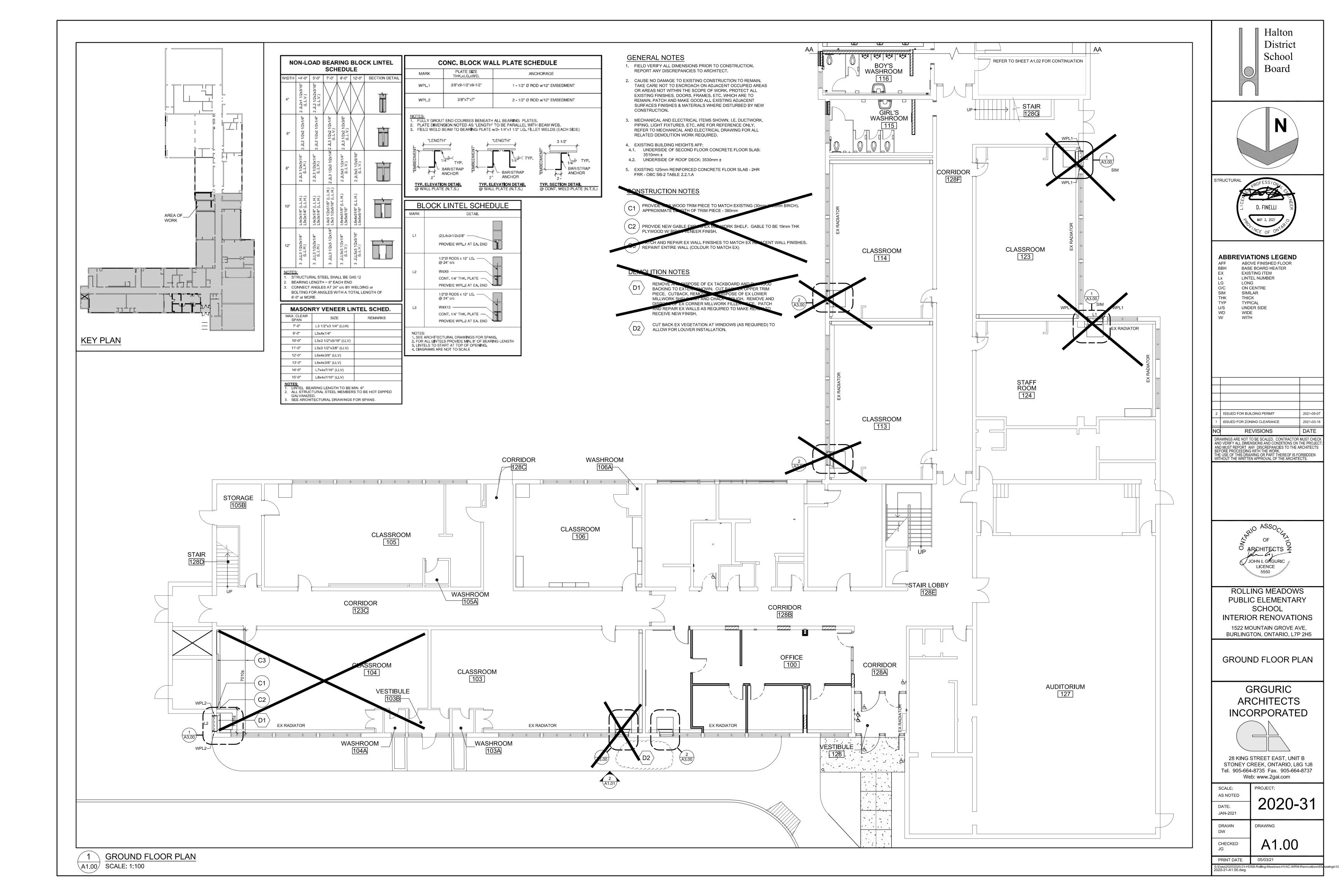


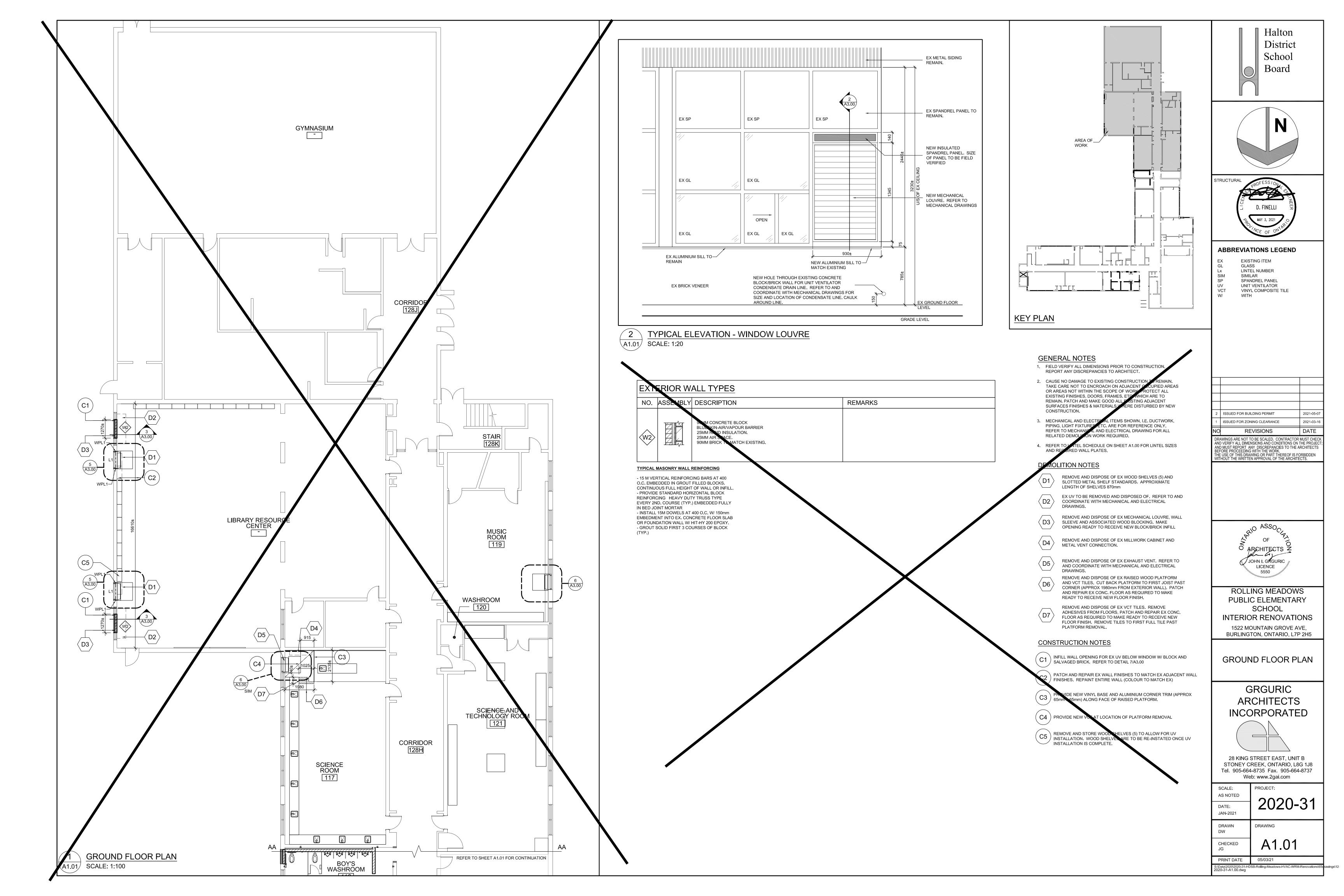
	Ontario Building Code Data Matrix Part 11 Renovation of Existing Building							
11.2.	Existing Building classification:	Describe Existing Use: Construction Index: Hazard Index:	Group A-2 Elementary S CI-6 HI-8	School	_ 11.2.1 _ T 11.2.1.1A _ T 11.2.1.1B to N			
		Not Applicable (no ma	jor change of occupancy)					
11.3.	Alteration to Existing Building is:	Basic Renovation Extensive Renovation	:		11.3.3.1 11.3.3.2			
11.4.	Reduction in Performance Level:	Structural: By Increase in occupant loa By change of major occupa Plumbing: Sewage System:		 ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes 	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5			
11.4.3.	Compensating Construction:	Structural: Increase in occupant load: Change of major occupancy Plumbing: Sewage system:	y: No No No No No No	 Yes (explain Yes (explain) Yes (explain) Yes (explain) Yes (explain) Yes (explain) 	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6			
11.5	Compliance Alternatives Proposed:	No Yes (give number [s])			11.4.2			

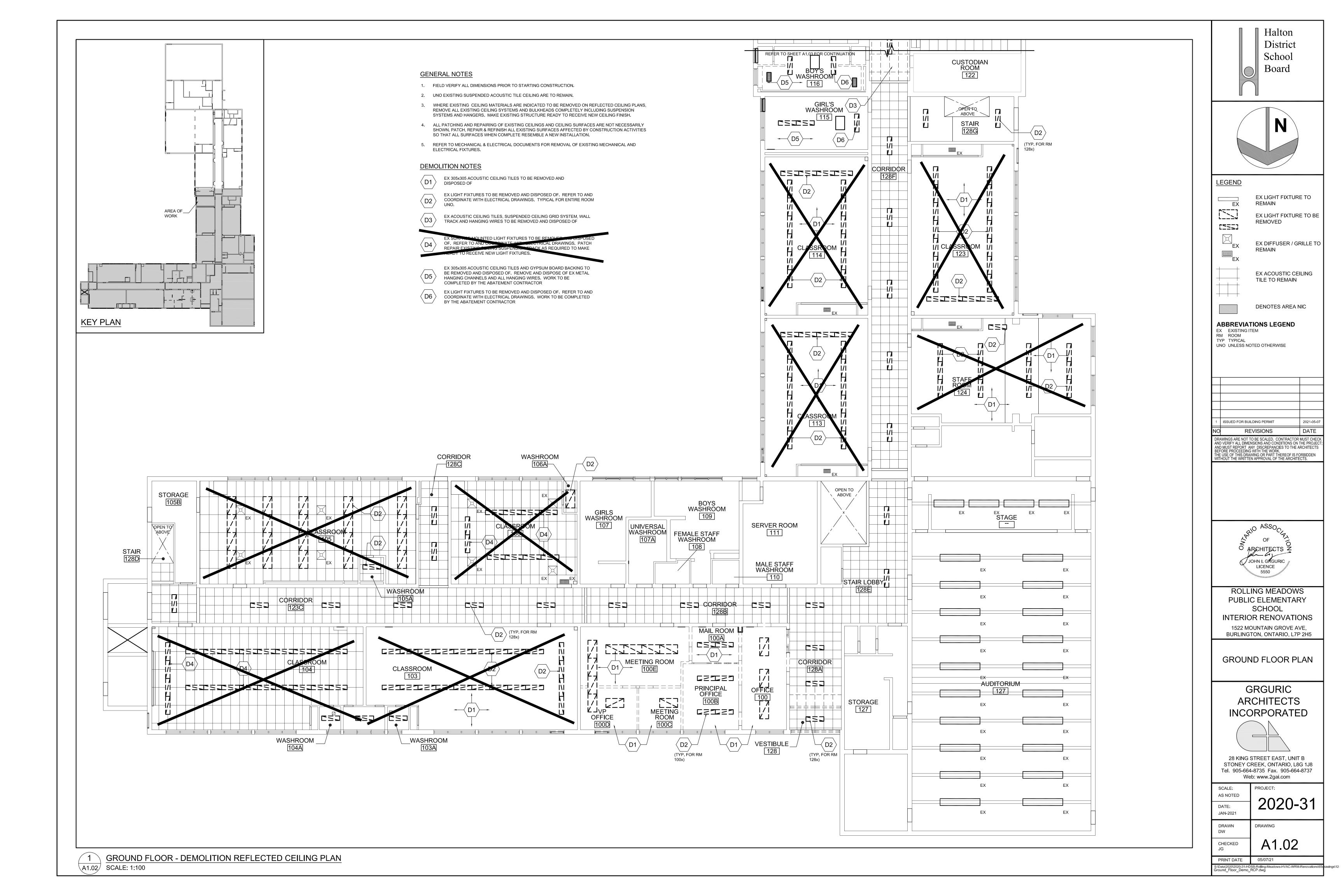
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TION: 11 Project I REPLACE CEILING TWO SET ADMINIS AUDITOF Major O Building Gross A Number Building Sprinkle Sprinkle Sprinkle Actual C Mezzani Occupar Barrier-f Hazardo	522 MOUNT Description EMENT OF F AND CLASS IS OF BOYS TRATION SF RUM, LIBRA ccupancy(s Area (m ²) rea (m ²) rea (m ²) rea (m ²) rea (m ²) of storeys of Streets/ Classificat r System F classificat r System F	AIN GF	ROVE AVE, E
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(Roc	_
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		Floo	ors
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		Mez	zzanine
Spatial S	Separation	- Con	 struction of
Wall	Area o	of	L.D.
	EBF (m²)		(m)
North	N/A		-
South	N/A		_
East	N/A		_
West	N/A		-
Sanitary	ν Facility Sι	ummar	y - Elemen
Rolling N	/leadows Pu	blic Sc	hool
Current C	Occupant lo	ad of t	- he building:
Students: Staff: Total:	53 53 531	Boys /	239 Giris ba
		on Oc	
To	tal Male: tal Male Fixti	split exe ures rec	
Tot (1		split exe ures rec	quired: 9
Toi (1 I Toi Toi	tal Male Fixtu Fixture per 3 tal Female:	split ex ures rec 0 males ixtures	quired: 9 s) 266 required: 11
Toi (1 I Toi Toi	tal Male Fixtu Fixture per 3 tal Female: tal Female F Fixture per 2 I <u>W/C:</u> 26 (in	split ex ures rec 0 males ixtures 6 femal cludes	quired: 9 s) 266 required: 11
	East West Sanitary Occupar Rolling N 1522 Mod Students: Staff: Total: Required	EastN/AWestN/ASanitary Facility StOccupant Load CalcRolling Meadows Pu1522 Mountain GroveCurrent Occupant IoStudents:478 (239)Staff:53Total:531	East N/A West N/A Sanitary Facility Summar Occupant Load Calculation Rolling Meadows Public Sc 1522 Mountain Grove Ave, Current Occupant load of t Students: 478 (239 Boys / Staff: 53 Total: 531 Required W/C Based on Oc Based on 50% / 50% split ex

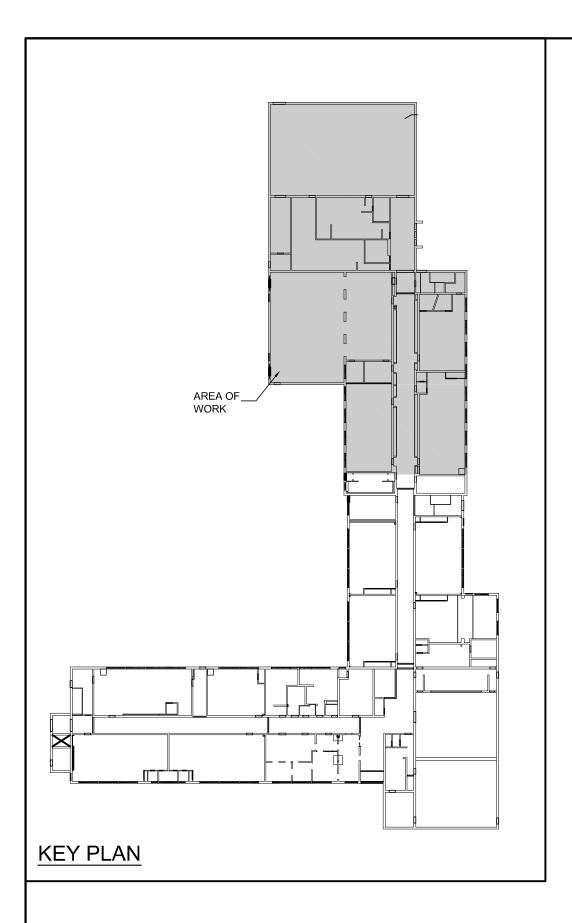
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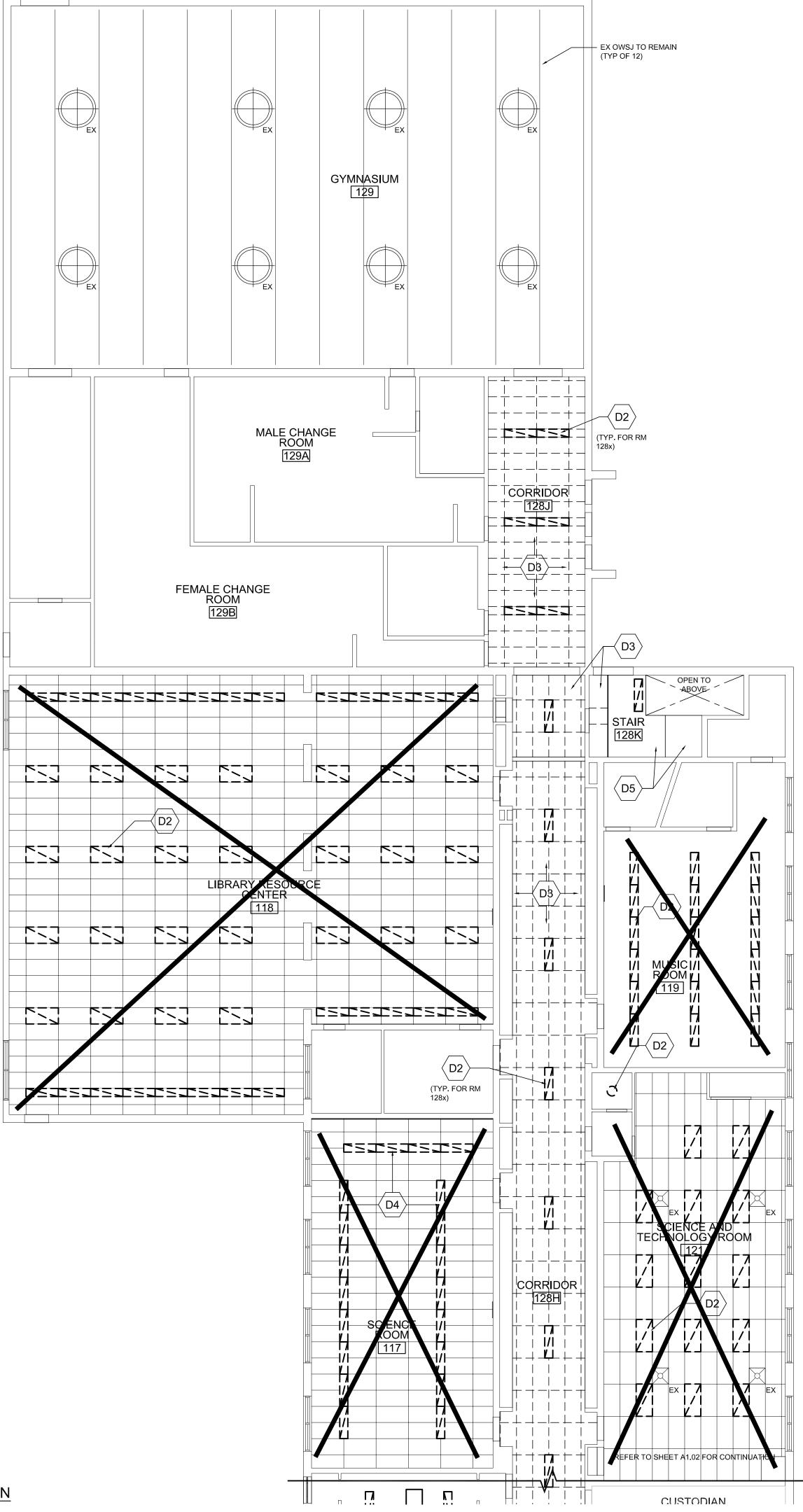
								I						Halton	
CERT	NAME: GR		R: 4164											District School	
				DNTARIO, L8G 1J8										Board	
NAME	E OF PROJECT:	ROLLING MEAD	OWS PUBLIC EL	EMENTARY SCHOO	., INTERIOR ALTER	ATIONS.									
LOCA	TION: 1522 MO	NTAIN GROVE #		DN, ONTARIO, L7P 2						000 0					
tem	Ontario's 2012 Building Code Data Matrix Parts 3 and Part 11									s are to Di	eference ivision B unle or [C] for Divi				
1		cription: IT OF PARTIAL FIRST AND SECOND FLOOR CORRIDOR CLASSROOM CEILINGS. COMPLETE RENOVATION OF Addition 11.1.2. [A]									Part 9				
		YS AND GIRLS Y SPACE. NEW H	VASHROOMS. F IVAC FOR CLAS	RENOVATIONS OF	Alteration			1.1.2.	[4]						
2	Major Occupan	y(s) Group A	Division 2	(Existing)	Change of	Use		3.1.2.	1.(1)				LEGEND		
3	Building Area (²) Existing	3,176m²		New	Total 3,1	76m²	1.4.1.2	2.[A]					XISTING INDERSIDE	
			- 100 3				00 2						~	TRAVEL DISTANCE (MAX. 30m ALLOWED)	
4	Gross Area (m ²	0	5,188m ² Renovated		New 0.0m²		-JIII ²	1.4.1.:	2.[A]					TIONS LEGEND	
5	Number of stor	ys	Above grade	471 2	Below grade 0		71	1.4.1.:	2.[A] & 3.2.1	.1			EX EXISTI	NG ITEM	
7	Number of Stre	ets/ Fire Fighter	Access	2				3.2.2.	10 & 3.2.5						
8 9	Building Classit		ıg - 11.3.3.1	entire t	ouilding (existing)				2083				-		
					ed compartments			3.2.1.							
				☐ selecte	ed floor areas EXI ent 🗌 in lieu	ISTING (area of a of roof rating		3.2.2. INDE							
				🔲 not req	uired 📉 not sp	prinkled									
10 11	Standpipe requ			Yes Yes		xisting) xisting)		3.2.9 3.2.4					-		
12	Water Service/		ate	Yes		xisting)		3.2.5.	7.				1		
13	High Building			Ustible	No Non-combustible))	Both	3.2.6	20 92						
14	Permitted Cons Actual Constru		permit	ted	required Non-combustible		Both	3.2.2.	2083						
15	Mezzanine(s) A Occupant load			m²/person	design of t	building		3.2.1. 3.1.17	1.(3)-(8)						
16	Occupantiload			upancy <u>A-2</u>	Load 531	-	persons	3.1.17					1 ISSUED FOR BUI		021-05-07
17	Barrier-free De	ign		Yes 🗌 No	(Explain)			3.8					DRAWINGS ARE NOT 1	O BE SCALED. CONTRACTOR MU	ST CHECK
18 19	Hazardous Sub		Horizontal Ass	Yes No	1	d Design No.			2. & 3.3.1.1 2083 & 3.				BEFORE PROCEEDING THE USE OF THIS DRA WITHOUT THE WRITTE	NOTION AND ON THE ARC WITH THE WORK. WING OR PART THEREOF IS FORE N APPROVAL OF THE ARCHITECT	BIDDEN S.
19	Required Fire Resistance		Existing FRR (Hou)	or Desc	cription (SG-2		5.2.2.	2003 & 3.	2.1.4					
	Rating - See Note Belov (FRR)	Floors	1 3/4	Hours Hours	CONCRETE ULC G243, 1	25mm REINFO (SG-2 TABLE 2 25mm REINFO	RCED	-							
		Mezzanin		Hours	CONCRETE	(SG-2 TABLE 2 N/A	2.2.1.A)								
			FRR of Supp Member			d Design No. cription (SG-2)							ASSO0	
		Floors	1	Hours		EXISTING							NZAD	O ASSO OF 74 RCHITECTS Z	
		Roof Mezzanin	3/4 e N/A	Hours Hours	E	EXISTING							La la	RCHITECTS Z	
19	Spatial Separat							3.2.3			-			LICENCE 5550	
	E	eaof L. BF (r n²)		Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Liste Desigi Descrij	n or 🛛	Comb. Constr.	N	. Constr. onc. Idding	Non-comb. Constr.	ROLL	ING MEADOWS	
		<u> </u>		-	-	-	-		-		_	-	4	C ELEMENTARY SCHOOL	
		/ · · · · · · · · · · · · · · · · · · ·	 	-	-	-	-		-		-	-		OR RENOVATION	
20	West N Sanitary Facility	<u>// </u>			-	-	-	3.7.4.	-		-	-	BURLING	TON, ONTARIO, L7P 2	H5
	Occupant Load (Rolling Meadows	alculations Public School							x · · /		1			DATA MATRIX PLANS AND F	·
	1522 Mountain G Current Occupa	ove Ave, Burling	ding:	50 split)									RESIST	ANCE DIAGRA	λМ
	Students: 478 Staff: 53 Total: 531	239 Boys / 239 G	ris based on 50/8	ou split)										GRGURIC	
	Required W/C Ba Based on 50% / 5	sed on Occupan 1% split except as	t Load: noted otherwise											CHITECTS	
		ixtures required: er 30 males)	266 9												
		e: e Fixtures require er 26 females)	266 d: 11												
	Provided W/C:													STREET EAST, UNIT B	1 10
	Male: 26 Female: 17	(includes univers (includes univers											Tel. 905-664	REEK, ONTARIO, L8G I-8735 Fax. 905-664-8 b: www.2gai.com	
<u>OB</u>	C MAT	RIX											SCALE: AS NOTED	PROJECT:	
													DATE: JAN-2021	2020-3	31
													DRAWN	DRAWING	
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													JG PRINT DATE	05/07/21	
													S:\Data\2020\2020-31-HD 2020-31-A0.01.dwg	SB-Rolling-Meadows-HVAC-WRM-Re	novations\65cr



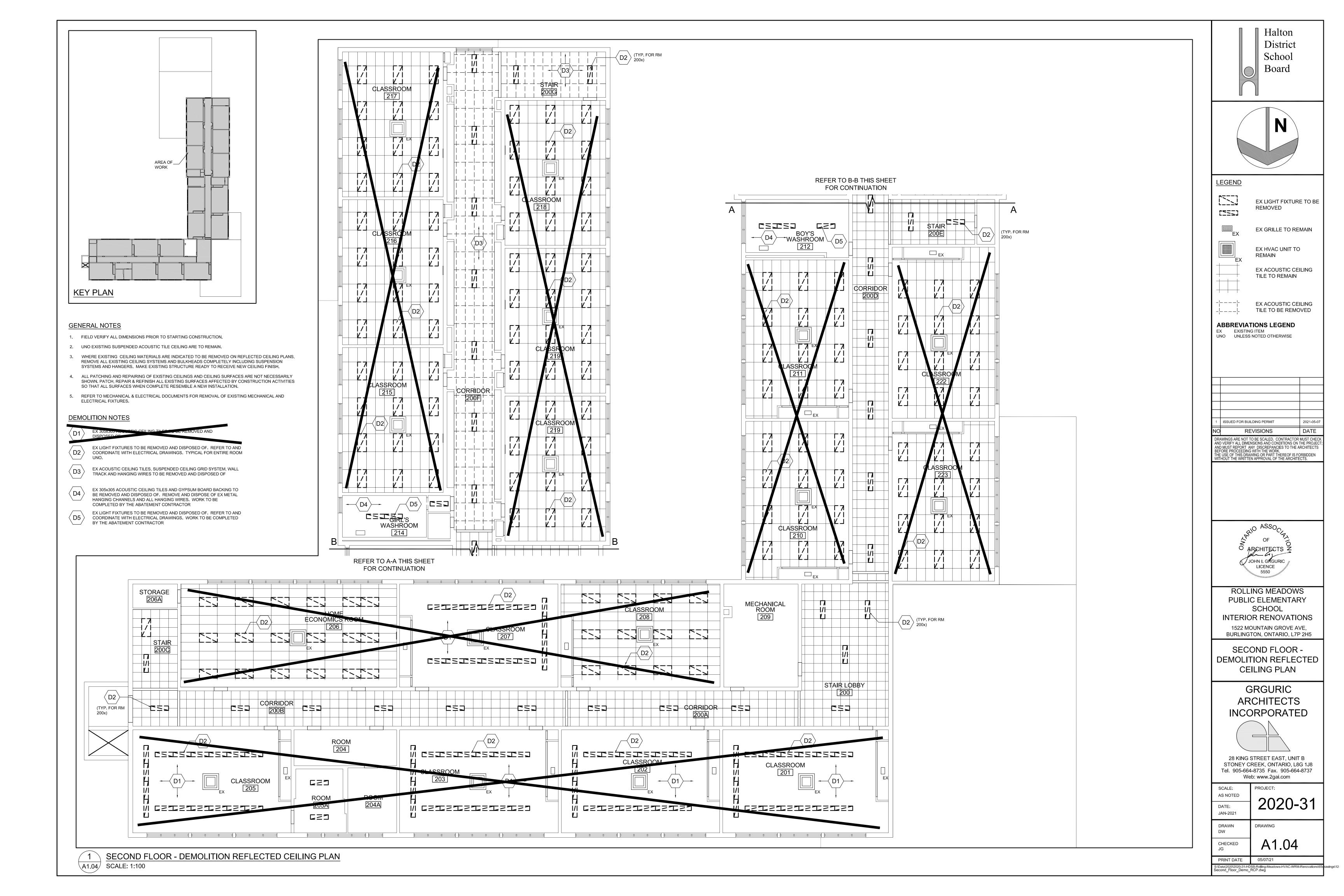


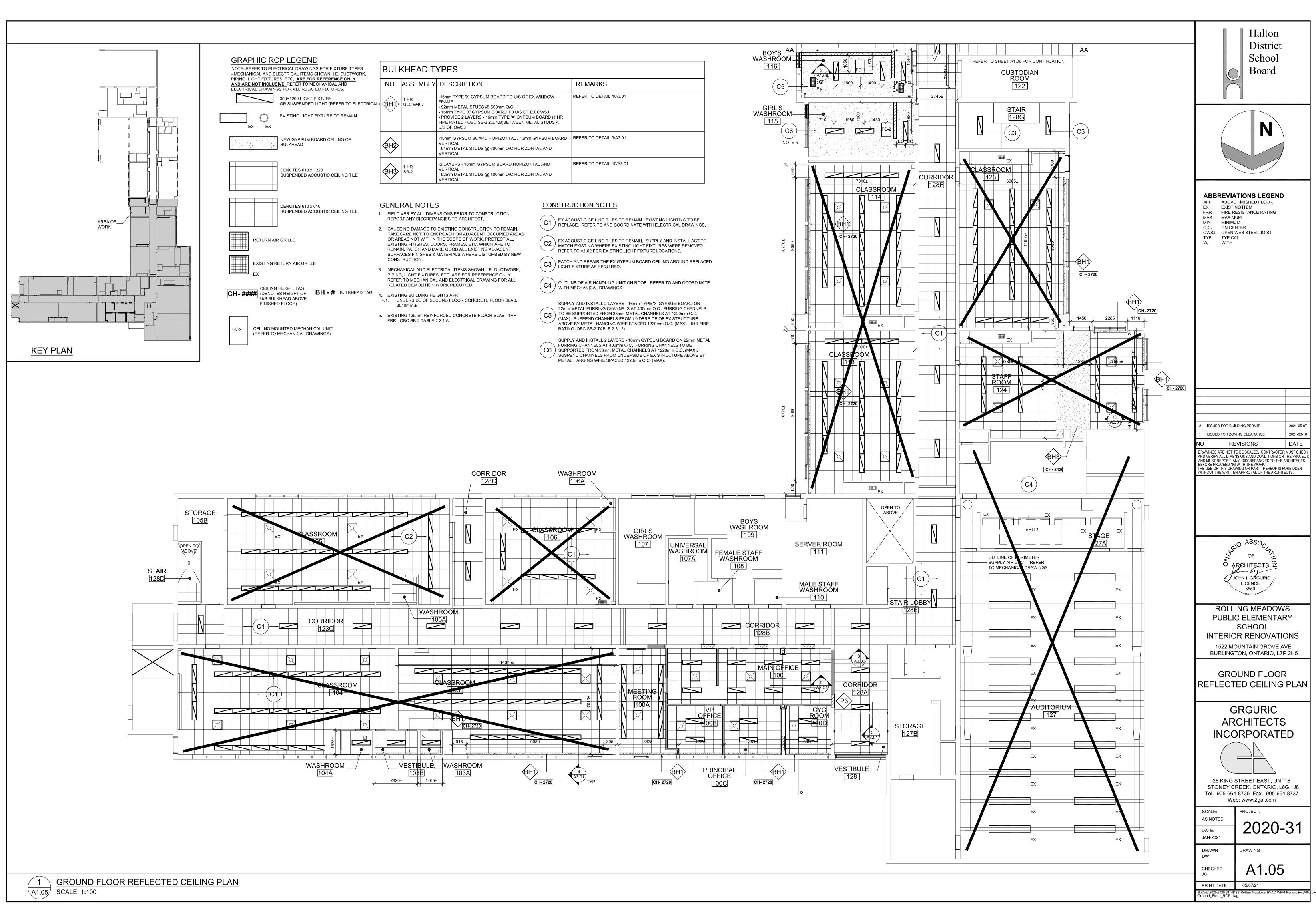


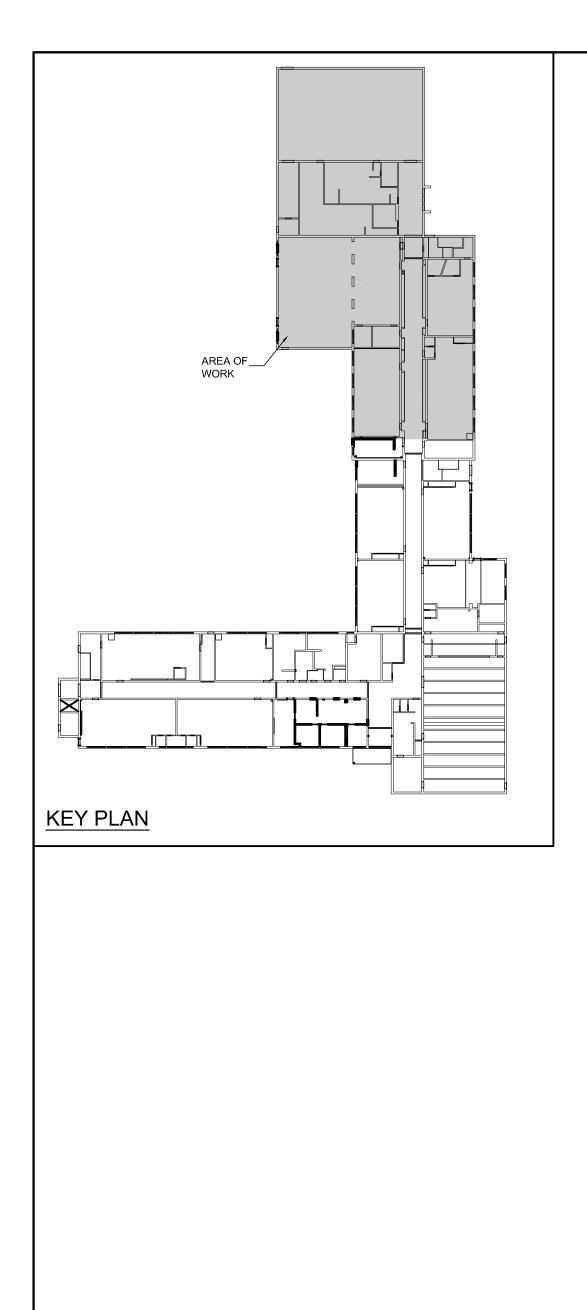


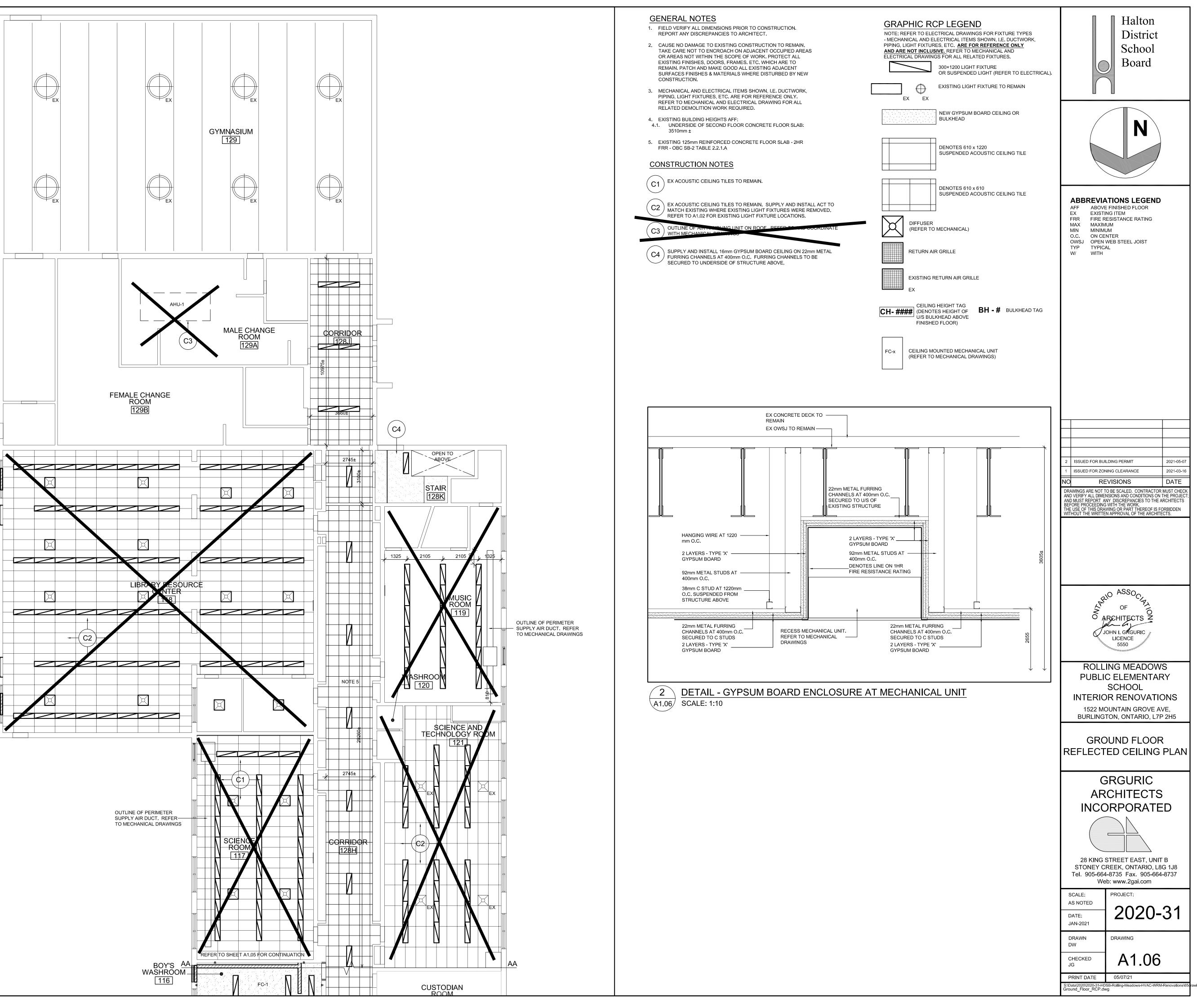


 UNO EXISTIN WHERE EXIS REMOVE ALL 	DTES Y ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NG SUSPENDED ACOUSTIC TILE CEILING ARE TO REMAIN. STING CEILING MATERIALS ARE INDICATED TO BE REMOVED ON REFLECTED CEILING PLANS, - EXISTING CEILING SYSTEMS AND BULKHEADS COMPLETELY INCLUDING SUSPENSION ND HANGERS. MAKE EXISTING STRUCTURE READY TO RECEIVE NEW CEILING FINISH.		Halton District School Board	
SHOWN. PAT SO THAT ALL 5. REFER TO M ELECTRICAL			N	
/ 111 \	NOTES 5x305 ACOUSTIC CEILING TILES TO BE OVED AND DISPOSED OF			
	GHT FIXTURES TO BE REMOVED AND DISPOSED OF. R TO AND COORDINATE WITH ELECTRICAL			
EX AC	VINGS. TYPICAL FOR ENTIRE ROOM UNO. COUSTIC CEILING TILES, SUSPENDED CEILING GRID EM, WALL TRACK AND HANGING WIRES TO BE	EX	EX LIGHT FIXTURE REMAIN	то
	OVED AND DISPOSED OF IRFACE MOUNTED LIGHT FIXTURES TO BE REMOVED DISPOSED OF, REFER TO AND COORDINATE WITH		EX LIGHT FIXTURE REMOVED	TO BE
ELEC SUSP	TRICAL DRAWINGS. PATCH REPAIR EXISTING CEILING ENSION TRACK AS REQUIRED TO MAKE READY TO IVE NEW LIGHT FIXTURES.	EX	EX DIFFUSER TO RI	EMAIN
D5 BACK	5x305 ACOUSTIC CEILING TILES AND GYPSUM BOARD ING TO BE REMOVED AND DISPOSED OF. REMOVE DISPOSE OF EX METAL HANGING CHANNELS AND ALL SING WIRES.		EX ACOUSTIC CEILI TILE TO REMAIN	ING
			EX ACOUSTIC CEILI TILE TO BE REMOV	
		EX EXISTING RM ROOM TYP TYPICAL	TIONS LEGEND	
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		BEFORE PROCEEDIN THE USE OF THIS DR. WITHOUT THE WRITT	AWING OR PART THEREOF IS FORE EN APPROVAL OF THE ARCHITECT	BIDDEN S.
			OF OF ARCHITECTS Z JOHN I. GRGURIC LICENCE	
		ROLL PUBLI INTERIO 1522 M	ING MEADOWS IC ELEMENTARY SCHOOL OR RENOVATION OUNTAIN GROVE AVE STON, ONTARIO, L7P 2	(NS :,
			OUND FLOOR - TION REFLEC ⁻ EILING PLAN	
		AF	GRGURIC RCHITECTS ORPORATED	D
		STONEY 0 Tel. 905-66	STREET EAST, UNIT B CREEK, ONTARIO, L8G 4-8735 Fax. 905-664-8 eb: www.2gai.com	1J8
		SCALE: AS NOTED DATE: JAN-2021	PROJECT: 2020-3	31
		DRAWN DW CHECKED JG	DRAWING A1.03	
		PRINT DATE S:\Data\2020\2020-31-H Ground_Floor_Demo	05/07/21 DSB-Rolling-Meadows-HVAC-WRM-Re _RCP.dwg	novations\65crawing





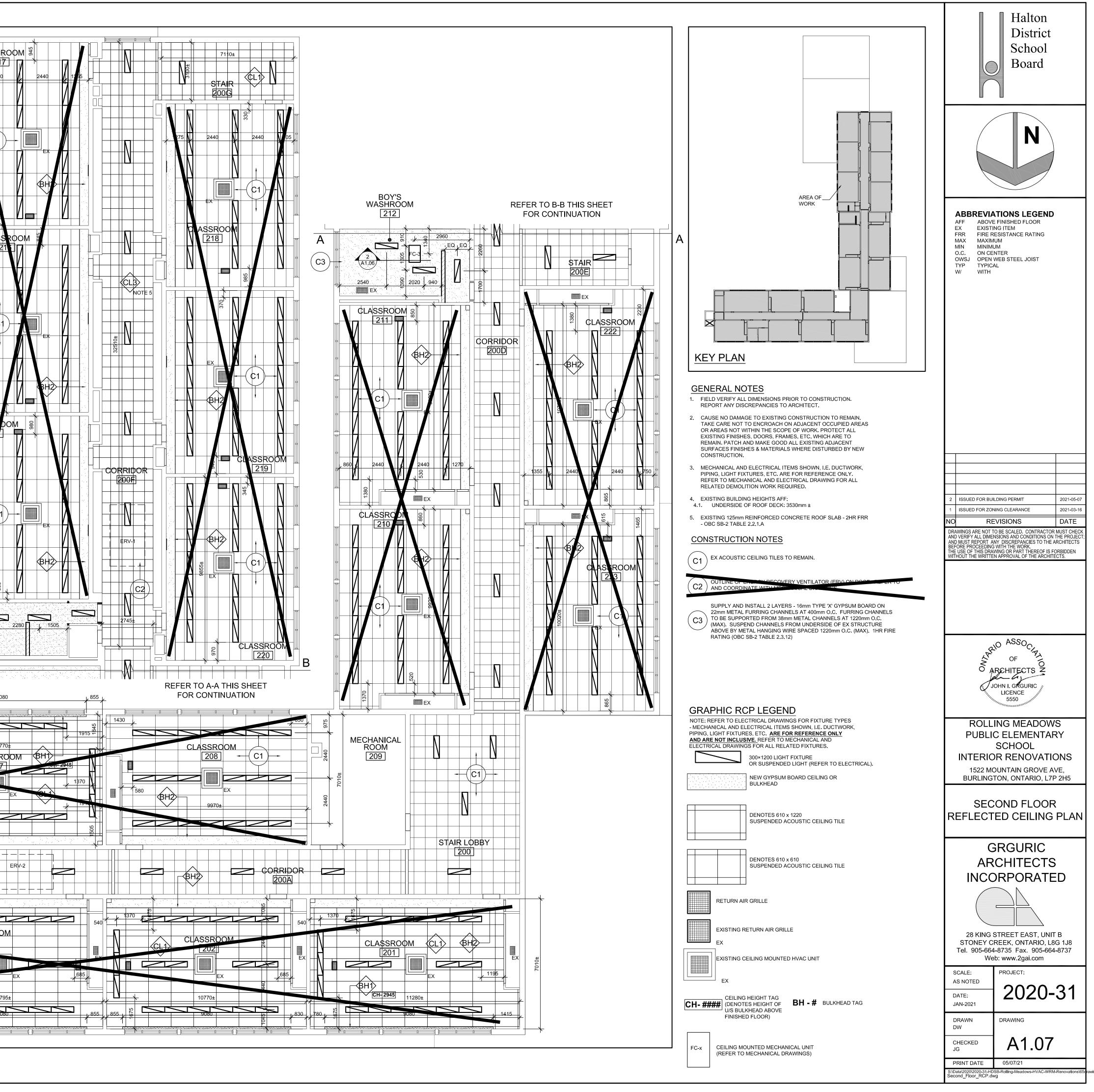


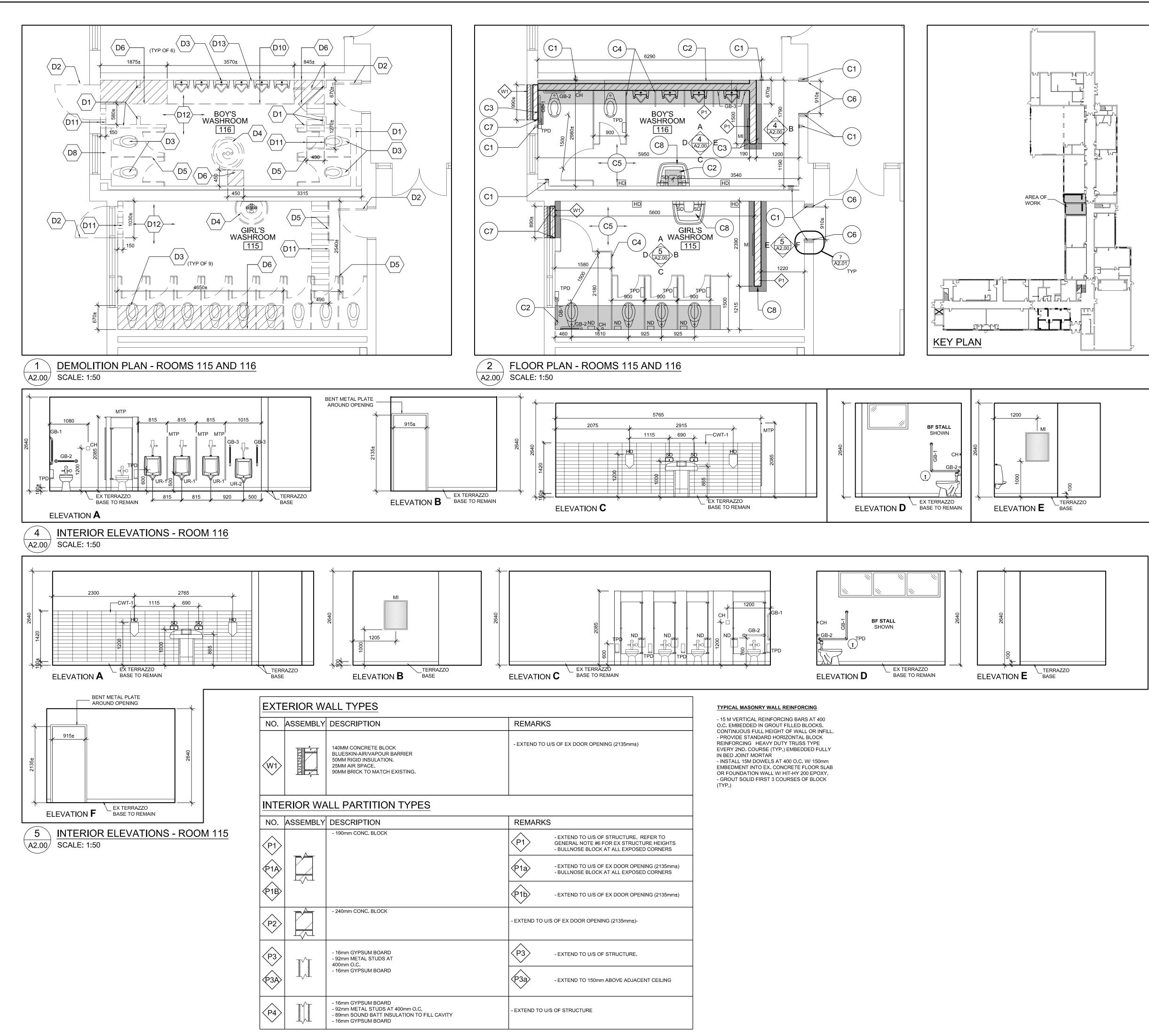


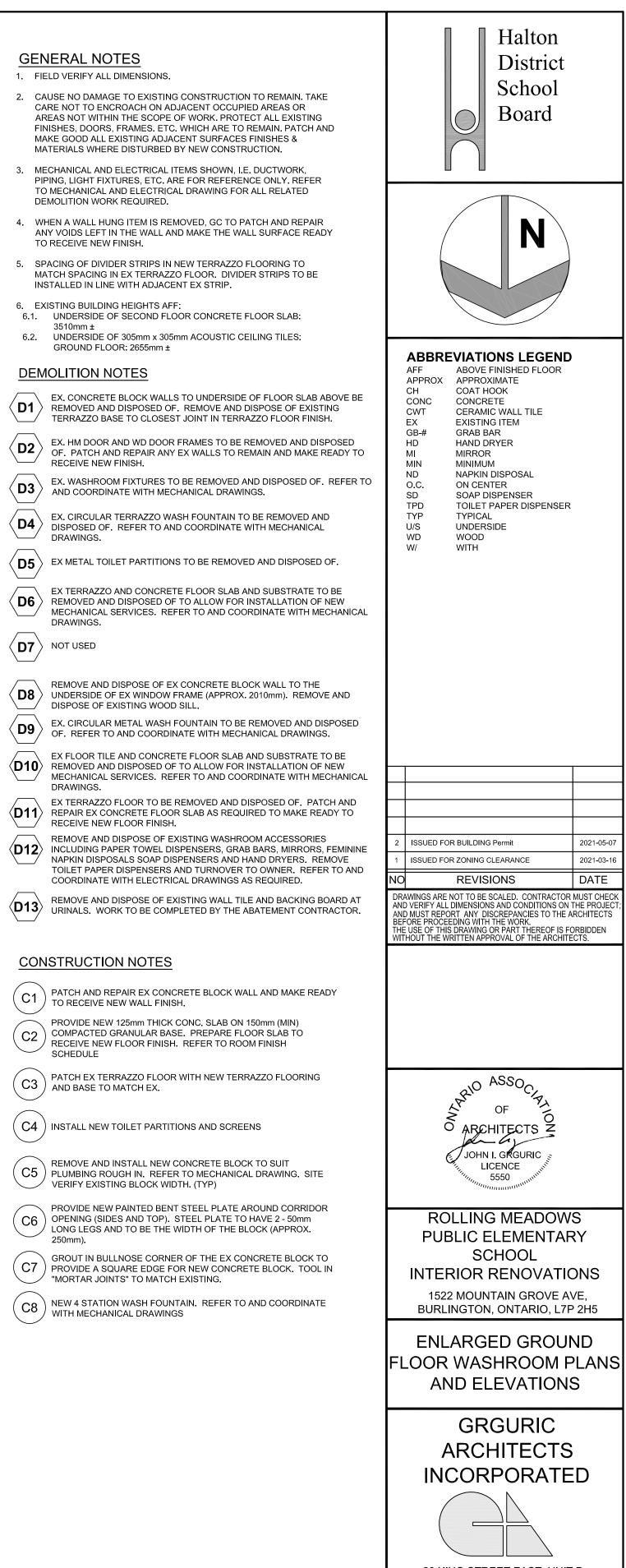


NO.	ASSEMBLY	DESCRIPTION	REMARKS	
CLI	1 HR ULC G243	 EX 65mm REINFORCED CONCRETE SLAB EX 405 OWSJ NO. 12 SWG GALVANIZED STEEL WIRE TWIST-TIED TO 38mm DEEP 16 GAUGE STEEL CHANNELS. HANGER WIRE TO BE SPACED 1220mm O.C. MAX ON MAIN RUNNER ADJACENT TO CROSS TEE INTERSECTION MAIN RUNNERS - 24mm DEEP X 3655mm LONG (NOMINAL) SPACED AT 1220mm O.C. CROSS TEE - NOMINAL 1220mm LONG INSTALLED PERPENDICULAR TO MAIN RUNNERS AND SPACED AT 610mm O.C. -ACOUSTIC CEILING TILES - 610mm X 610mm OR 1220mm LAY-IN PANELS. BORDER PANELS TO BE SUPPORT AT WALLS BY MIN 26 MSG PAINTED STEEL ANGLE W/ 25mm LEGS -HOLD-DOWN CLIPS - NO. 30 MSG SPRING STEEL PLACED OVER CROSS TEES 610mm O.C. 	 - AIR DUCTS - 24 GAUGE GALVANIZED STEEL (MIN). - DAMPER - 25 GAUGE GALVANIZED STEEL (MIN) W/ 1.5mm THICK CERAMIC FIBER PAPER ON EACH SURFACE. DAMPER TO BE HELD OPEN BY A FUSIBLE LINK. DAMPER TO OVERLAP DUCT OUTLET BY 25mm (MIN) -FOR 610mm X 610mm CEILING TILES - INSTALL ADDITIONAL 610mm CROSS TEE PERPENDICULAR TO 1220mm CROSS TEE, MIDWAY BETWEEN MAIN RUNNERS. - HOLD DOWN CLIPS REQUIRED WHEN CEILING TILES HAVE A WEIGHT OF LESS THAN 1 LBS PER SQUARE FOOT 	
CL2	60 MIN. OBC SB-2 TABLE 2.3.12	- 2 LAYERS - 16mm TYPE 'X' GYPSUM BOARD - 92mm METAL STUDS AT 400mm O.C.		<u>/</u>
CL3		- ACOUSTIC CEILING TILE - 24mm DEEP SUSPENSION TEES		Ź
BULI	I KHEAD T	YPES		
NO.	ASSEMBLY	DESCRIPTION	REMARKS	\mathbb{N}
(BH1)	1 HR ULC W407	-16mm TYPE 'X' GYPSUM BOARD TO U/S OF EX WINDOW FRAME - 92mm METAL STUDS @ 600mm O/C - 16mm TYPE 'X' GYPSUM BOARD TO U/S OF EX OWSJ - PROVIDE 2 LAYERS - 16mm TYPE 'X' GYPSUM BOARD (1 HR FIRE RATED - OBC SB-2 2.3.4.B)BETWEEN METAL STUDS AT U/S OF OWSJ	REFER TO DETAIL 4/A3.01	
BH2>		-16mm GYPSUM BOARD HORIZONTAL / 13mm GYPSUM BOARD VERTICAL - 64mm METAL STUDS @ 600mm O/C HORIZONTAL AND VERTICAL	REFER TO DETAIL 9/A3.01	/
		STORAGE		
		STORAGE		
		206A 044 - C1 → 7 044 - C1 →		
		206A 60 04 - 1285 - 1285 - 1285 - 1285 - 1285 - 1285 - 1285 -		
		206A		
		206A 60 04 01 1285 04 </td <td></td> <td></td>		
		206A 60 044 -01 1285 -01 </td <td></td> <td></td>		
		206A 90 04 -01 1285 -01 1370 -01		
		206A 04 1285 01 1285 0 1285		
		206A 9 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 CLASSROOM BH2 9 A3.01 TYP CL		
		206A 97 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 200C 1285 STAIR 1285 STAIR 1285 STAIR 200C STAIR 1285 STAIR 1285 STAIR 1285 STAIR 1285 STAIR 1285 STAIR 1285 STAIR 1285 STAIR 1285 STAIR STAIR 200C STAIR STAI		

$\overline{1}$	SECOND FLOOR - REFLECTED CEILING PLAN
A1.07	SCALE: 1:100







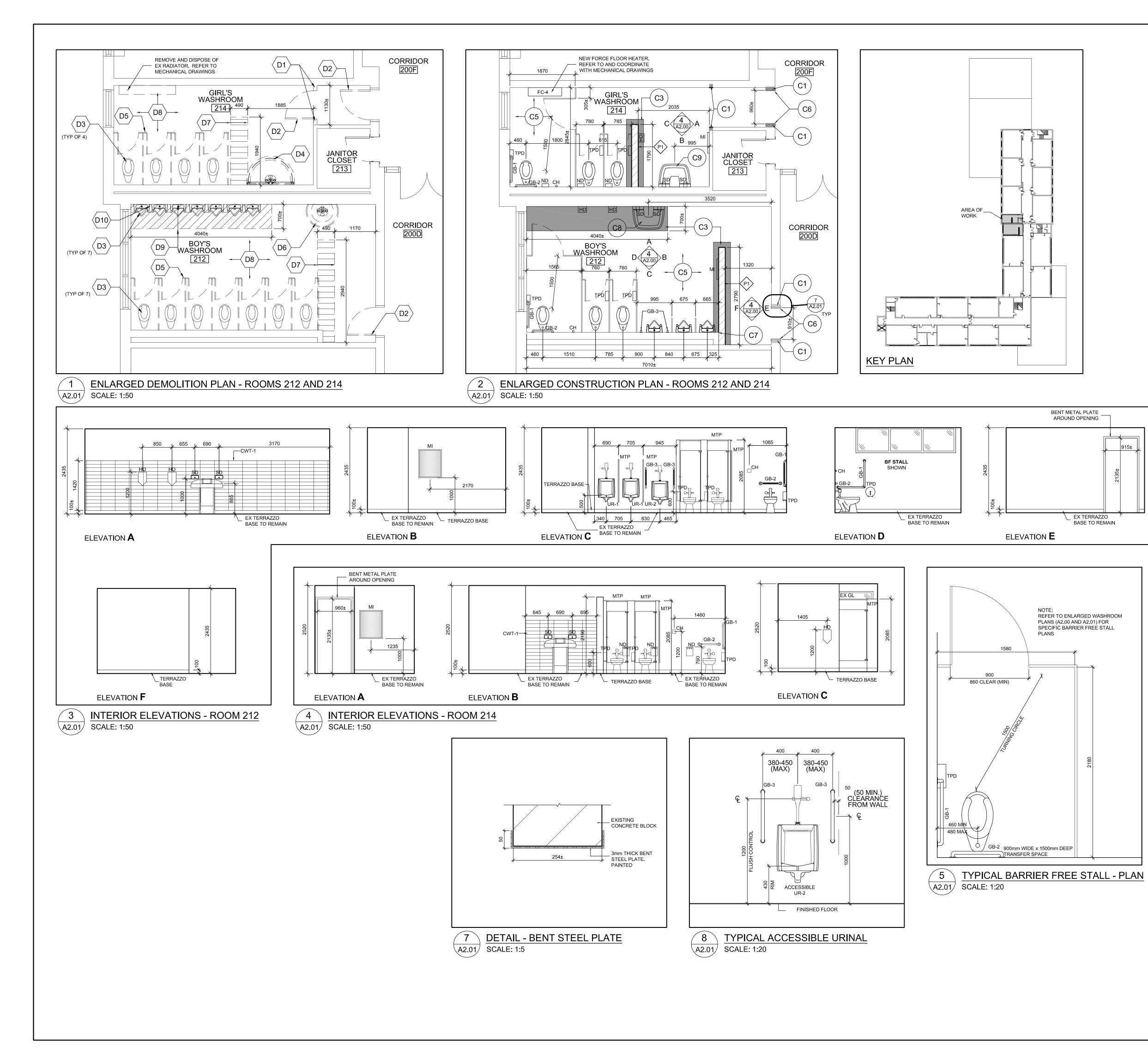
28 KING STREET EAST, UNIT B STONEY CREEK, ONTARIO, L8G 1J8 Tel. 905-664-8735 Fax. 905-664-8737 Web: www.2gai.com

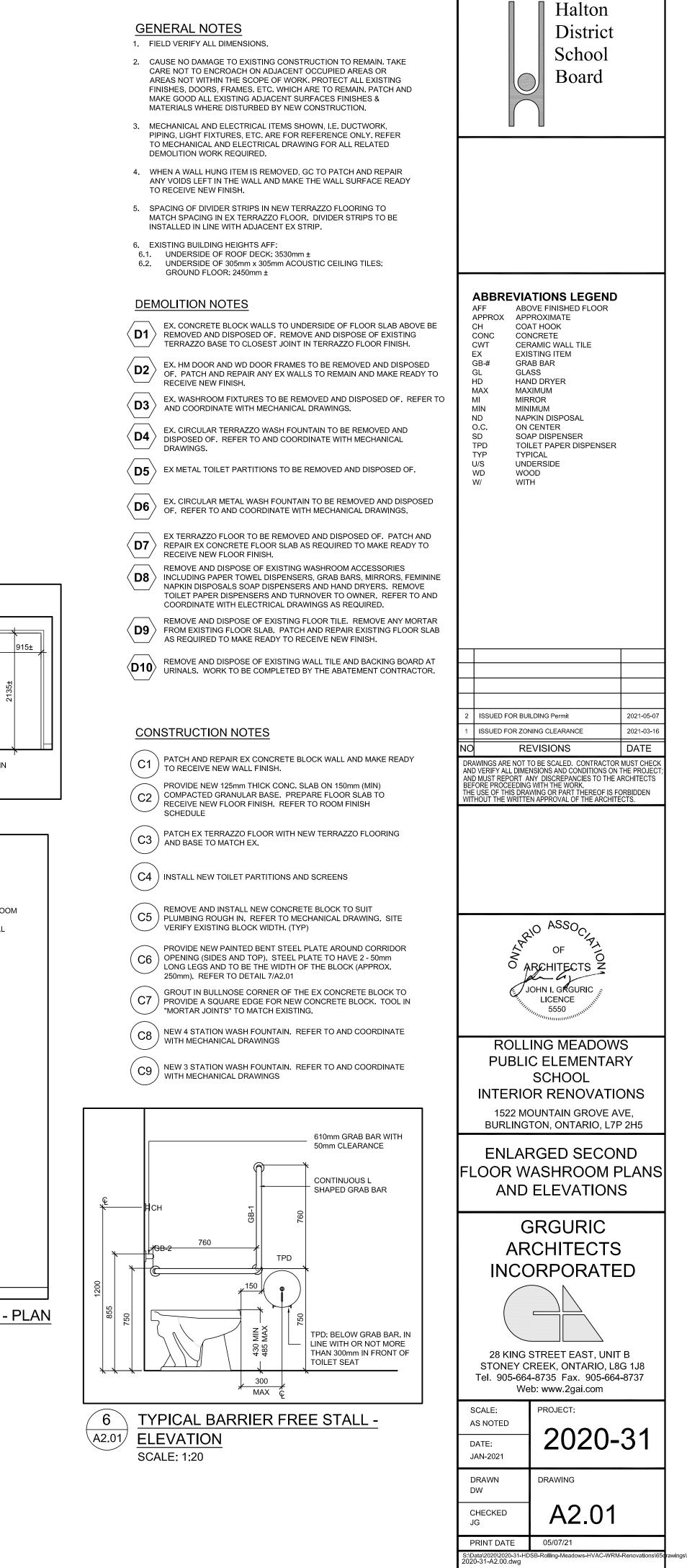
PROJECT: SCALE: AS NOTED 2020-31 DATE: JAN-2021 DRAWN DRAWING DW A2.00 CHECKED JG

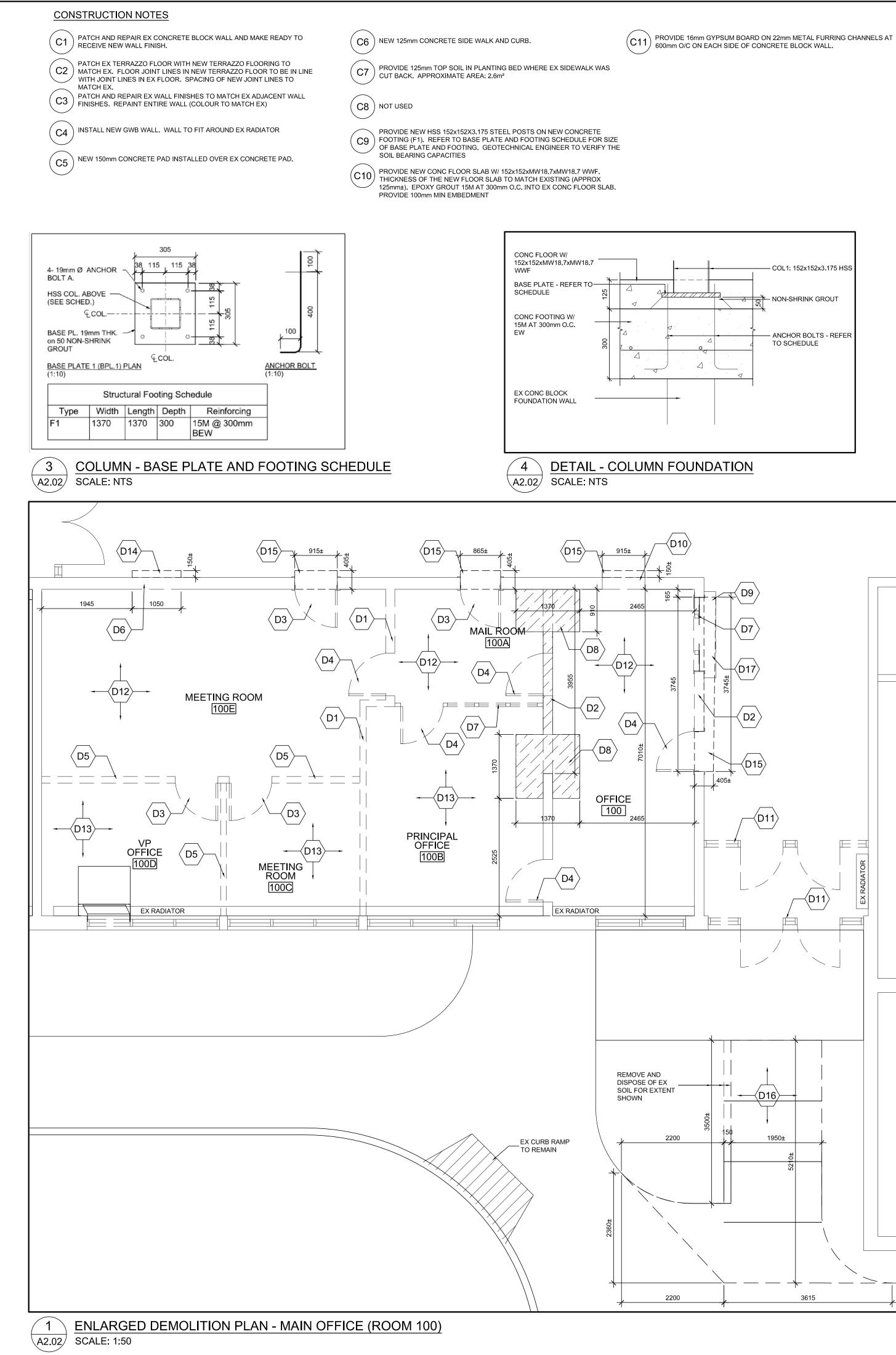
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PRINT DATE

20-31-A2.00.dwg







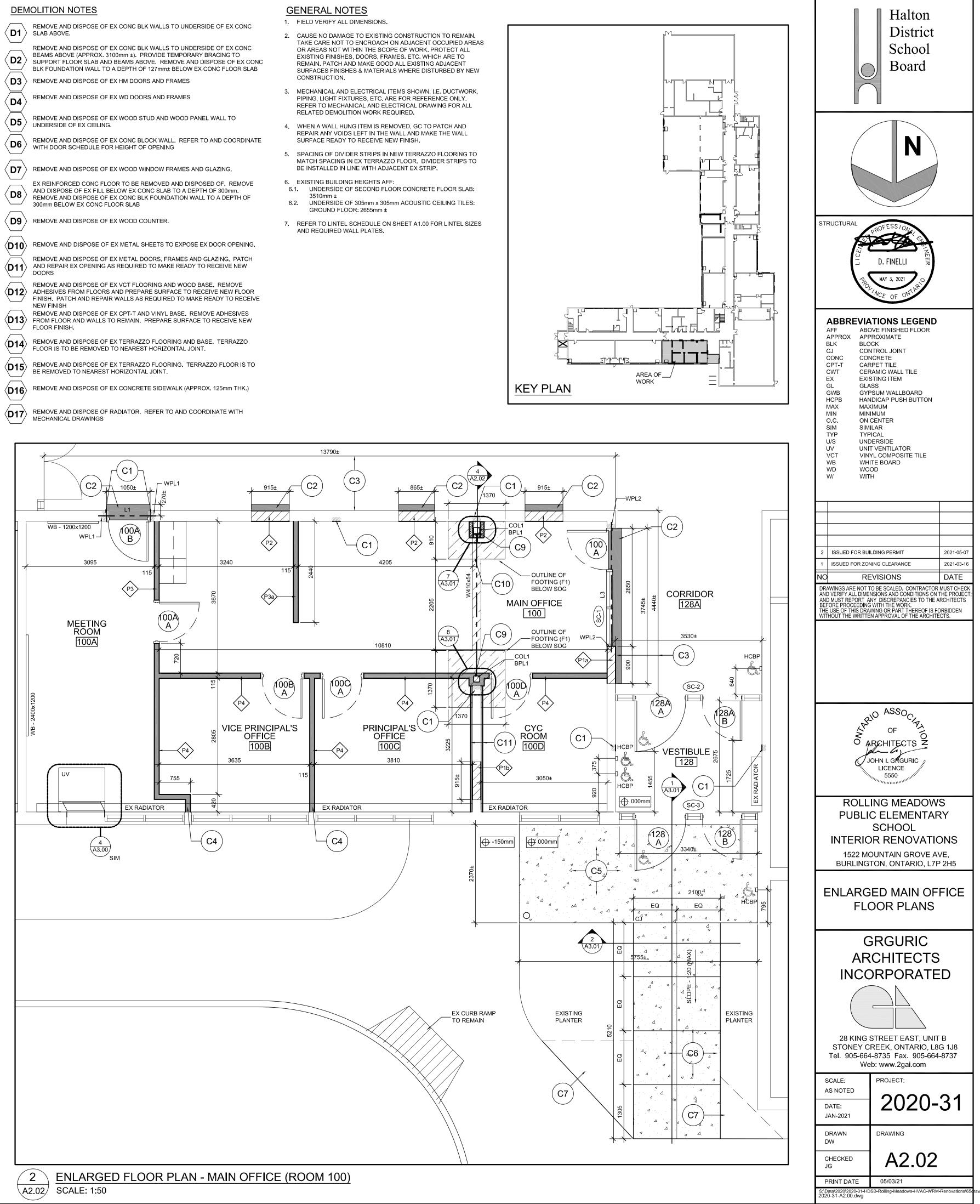
DEMOLITION NOTES

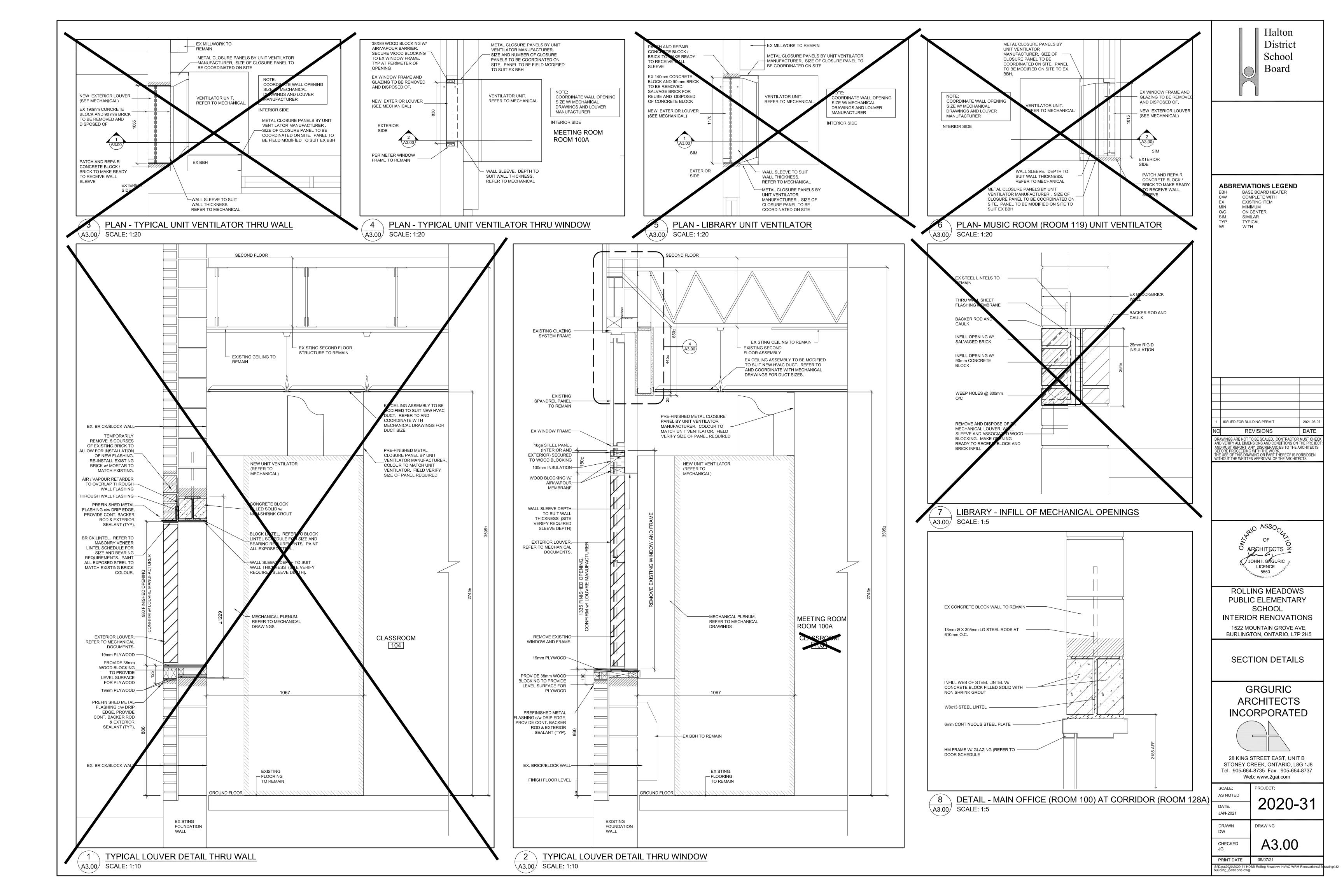
REMOVE AND DISPOSE OF EX CONC BLK WALLS TO UNDERSIDE OF EX CONC $\langle D1 \rangle$ SLAB ABOVE. REMOVE AND DISPOSE OF EX CONC BLK WALLS TO UNDERSIDE OF EX CONC BEAMS ABOVE (APPROX. 3100mm ±). PROVIDE TEMPORARY BRACING TO

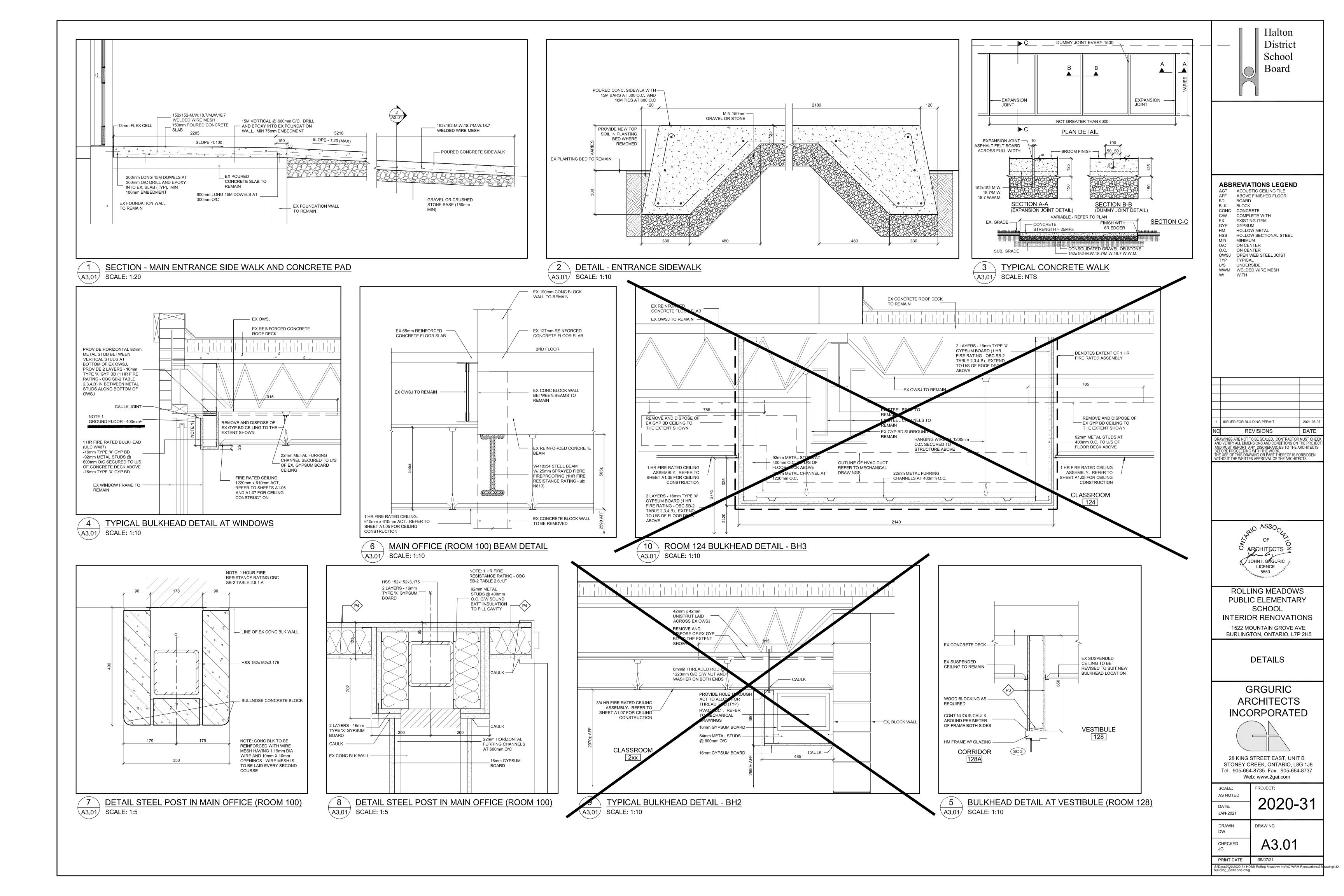
- < D4)
- REMOVE AND DISPOSE OF EX WOOD STUD AND WOOD PANEL WALL TO $\langle D5 \rangle$ UNDERSIDE OF EX CEILING.
- 〈 **D6** 〉 WITH DOOR SCHEDULE FOR HEIGHT OF OPENING
 - REMOVE AND DISPOSE OF EX WOOD WINDOW FRAMES AND GLAZING.
- AND DISPOSE OF EX FILL BELOW EX CONC SLAB TO A DEPTH OF 300mm. **(D8**) REMOVE AND DISPOSE OF EX CONC BLK FOUNDATION WALL TO A DEPTH OF 300mm BELOW EX CONC FLOOR SLAB
- REMOVE AND DISPOSE OF EX WOOD COUNTER. $\langle D9 \rangle$
- $\langle D10 \rangle$ REMOVE AND DISPOSE OF EX METAL SHEETS TO EXPOSE EX DOOR OPENING.
- REMOVE AND DISPOSE OF EX METAL DOORS, FRAMES AND GLAZING. PATCH **(D11)** AND REPAIR EX OPENING AS REQUIRED TO MAKE READY TO RECEIVE NEW
- REMOVE AND DISPOSE OF EX VCT FLOORING AND WOOD BASE. REMOVE $\langle D12 \rangle$ ADHESIVES FROM FLOORS AND PREPARE SURFACE TO RECEIVE NEW FLOOR
- NEW FINISH REMOVE AND DISPOSE OF EX CPT-T AND VINYL BASE. REMOVE ADHESIVES
- REMOVE AND DISPOSE OF EX TERRAZZO FLOORING AND BASE. TERRAZZO **(D14)**
- FLOOR IS TO BE REMOVED TO NEAREST HORIZONTAL JOINT.
- BE REMOVED TO NEAREST HORIZONTAL JOINT.
- (D17) REMOVE AND DISPOSE OF RADIATOR. REFER TO AND COORDINATE WITH



- CONSTRUCTION.
- RELATED DEMOLITION WORK REQUIRED.
- SURFACE READY TO RECEIVE NEW FINISH.
- 3510mm ±







	DM FINISH SCHEDUL	<u> </u>							
	NAME	FLOOR FINISH	FINISH BASE	WALLS MAT'L	FINISH	CEILING MAT'L	FINISH	HEIGHT	REMARKS
						1			
0	OFFICE	LVT	RB	EX CONC. BLK. GWB	PNT PNT	ACT-1	-	2745	
0A	MEETING ROOM	LVT	RB	EX CONC.BLK GWB	PNT PNT	ACT-1 GYPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS 1 HR FIRE RATED CEILING (ULC G243)
00B	VICE PRINCIPAL'S OFFICE	CPT-T	RB	EX CONC. BLK GWB	PNT	ACT-1 GYPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS 1 HR FIRE RATED CEILING (ULC G243)
00C	PRINCIPAL'S OFFICE	CPT-T	RB	EX CONC. BLK GWB	PNT	ACT-1 GYPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS 1 HR FIRE RATED CEILING (ULC G243)
00D	CYC ROOM	CPT-T	RB	EX CONC. BLK GWB	PNT	ACT-1 GYPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
02	CLASSROOM	EX	EX	EX CONC. BLK	-	ACT-2 GYPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT. 1 HR FIRE RATED CEILING (11.0-0243)
03A	WASHROOM	EX	LA	EX CONC. BLK	-	ACT-2 GYPSUM	- -	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS 1 HR FIRE RATED CEILING (ULC G243)
03B	VESTIBULE	EX	EX	EX CONC. BLK		ACT-2 GYPSUM	PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
13	CLASSROOM	EX	EX	EX CONC. BLK	-	ACT-2	-	2745	REFER TO REFLECTED CEILING PLANT OF PULKHEAD HEIGHTS
14	CLASSROOM	EX	EX	EX CONC. BLK	-	GYPSUM ACT-2	PNT	2745	1 HR FIRE RATED CEILING (ULC G243) REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
15	GIRL'S WASHROOM	EX TERR	EX TERR	EX CONC. BLK	PNT	GYPSUM GYPSUM	PNT PNT	2655	1 HR FIRE RATED CEILING (ULC G243) -
16	BOY'S WASHROOM	EX TERR	EX TERR	EX CONC. BLK	PNT	GYPSUM	PNT	2655	1 HR FIRE RATED CEILING (OBC SB-2 TABLE 2.3.12)
	SCIENCE ROOM	EX	EX	EX CONC. BLK	-	EX	-	EX	PAINT NEW SPIRAL DUCT
18	LIBRARY	ΕX	EX	EX CONC. BLK	PNT	EX	-	EX	REPAINT EX WALL AT WALL IMPLE ONLY. REFER TO A1.01
19	MUSIC ROOM	EX	EX	EX-CONC_BLK	-	EX	-		AINT NEW SPIRAL DUCT
23	CLASSROOM	EX	EX	EX CONC. BLK		OTPSUM	- PNT	2745	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT 1 HR FIRE RATED CEILING (ULC G243)
24	STAFF ROOM	EX	EX	EX CONC. BLK	-	ACT-2 GYPSUM	- PNT		REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS 1 HR FINE ANTED CEILING (ULC G243)
27	AUDITOPIUM	EX	EX	EX CONC. BLK	-	EX	-	EX	REFER TO REFLECTED CEILING PLANT OF PULKHEAD HEIGHTS 1 HR FIRE RATED CEILING (ULC G243)
28	VESTIBULE	EX	EX	EX CONC. BLK GWB	PNT PNT	ACT-1	-	3075(EX)	PAINT NEW SPIRAL DUCT
28A	CORRIDOR	EX	EX	EX CONC. BLK GWB	PNT PNT	ACT-1	-	3075(EX)	HEIGHT OF NEW ACT CEILING TO MATCH EXISTING
128H	CORRIDOR	EX	EX	EX CONC. BLK	-	ACT-1	-	2440	
128J	CORRIDOR	EX	EX	EX CONC. BLK	-	ACT-1	-	2440	
	STAIR	EX	EX	EX CONC. BLK	-	GYPSUM	PNT	3400	
SEC			1			1		T	1
	CORRIDOR	EX	EX	EX CONC. BLK	-	ACT-1	-	3400	
	STAIR	EX	EX	EX CONC. BLK	-	ACT-1	-	3400	
201	CLASSROOM	EX	EX	EX CONC. BLK	-	ACT-2	-	2970	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT 3/4 HR FIRE RATED CEILING (ULC G243)
202	CLASSROOM	EX	EX	EX CONC. BLK	-	ACT-2 GYPSUM	- PNT	2970	REFER TO REFLECTED CEILING PLANT OR BULKHEAD HEIGHTS 3/4 HR FIRE RATED CEILING (ULC G243)
203	CLASSROOM	EX		EX CONC. BLK	-	ACT-2	- PNT	2970	REFER TO ALFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
205	CLASSROOM	EX	EX	EX CONC. BLN	-	ACT-2	-	2970	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT
206	HOME ECONOMICS ROOM	EX	EX	EX CONC. BLK	-	GYPSUM EX	PNT -	EX	3/4 HR FIRE RATED CEILING (ULC G243) REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT
207	CLASSROOM	EX	EX	EX CONC. BLK	-	ACT-2	PNT	2970	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT
208	CLASSROOM	EX	EX	EX CONC. BLK	-	GYPSUM EX	PNT -	EX	3/4 HR FIRE RATED CEILING (ULC G243)
210	CLASSROOM	EX	EX	EX CONC. BLK		GYPSUM EX	PNT -	EX	REFER TO REFLECTED CERENC PLAN FOR BULKHEAD HEIGHTS
211	OLASSROOM	EX	EX	EX CONC. BLK		GYPSUM EX	PNT	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD TEIGHTS
						GYPSUM	PNT		
	BOY'S WASHROOM	EX	EX EX	EX CONC. BLK	-	GYPSUM GYPSUM	PNT PNT	2450 2450	1 HR FIRE RATED CEILING (OBC SB-2 TABLE 2.3.12)
	CLASSROOM	EX EX	EX	EX CONC. BLK EX CONC. BLK		EX	-	2450 EX	1 HR FIRE RATED CEILING (OBC SB-2 TABLE 2.3.12) REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHT
216	CLASSROOM	EX	EX	EX CONC. BLK		GYPSUM EX	PNT -	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
	CLASSROOM	EX		EX CONC. BLK		GYPSUM EX	PNT -	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
	CLASSROOM	EX	EX	EX CONC. BLK		GYPSUM EX	PNT	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
219	CLASSROOM	EX	EX	EX CONC. BLK			PNT	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
				EX CONC. BER		GYPSUM			
220	CLASSROOM	EX				EX GYPSUM	- PNT		REFER TO REFLECTED CEILING PLAN FOR BULKHEAD HEIGHTS
222	CLASSROOM		EX	EX CONC. BLK		EX GYPSUM	- PNT	EX	REFER TO REFLECTED OF UNG PLAN FOR BULKHEAD HEIGHTS
223	CLASSPOOM	EX	EX	EX CONC. BLK	-	EX GYPSUM	- PNT	EX	REFER TO REFLECTED CEILING PLAN FOR BULKHEAD TEIGHTS
205	OM FINISH LEGEND								
ACT-x AFF	ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR	CPT-T CWT	CARPET T CERAMIC	ILE WALL TILE	MTL PNT	METAL PAINT			ITED OTHERWISE POSITE TILE
BLK	BLOCK	EX	EXISTING			PORCELAIN TILE		WITH	

BLK CONC CONCRETE CL'G CEILING

ROOM FINISH SCHEDULE NOTES

GROUND FLOOR CEILING HEIGHT IS 2840mm UNO. SECOND FLOOR CEILING HEIGHT IS 2800mm

GYPSUM WALLBOARD

LUXURY VINYL TILE

RB

U/S

RUBBER BASE

UNDERSIDE

GWB

LVT

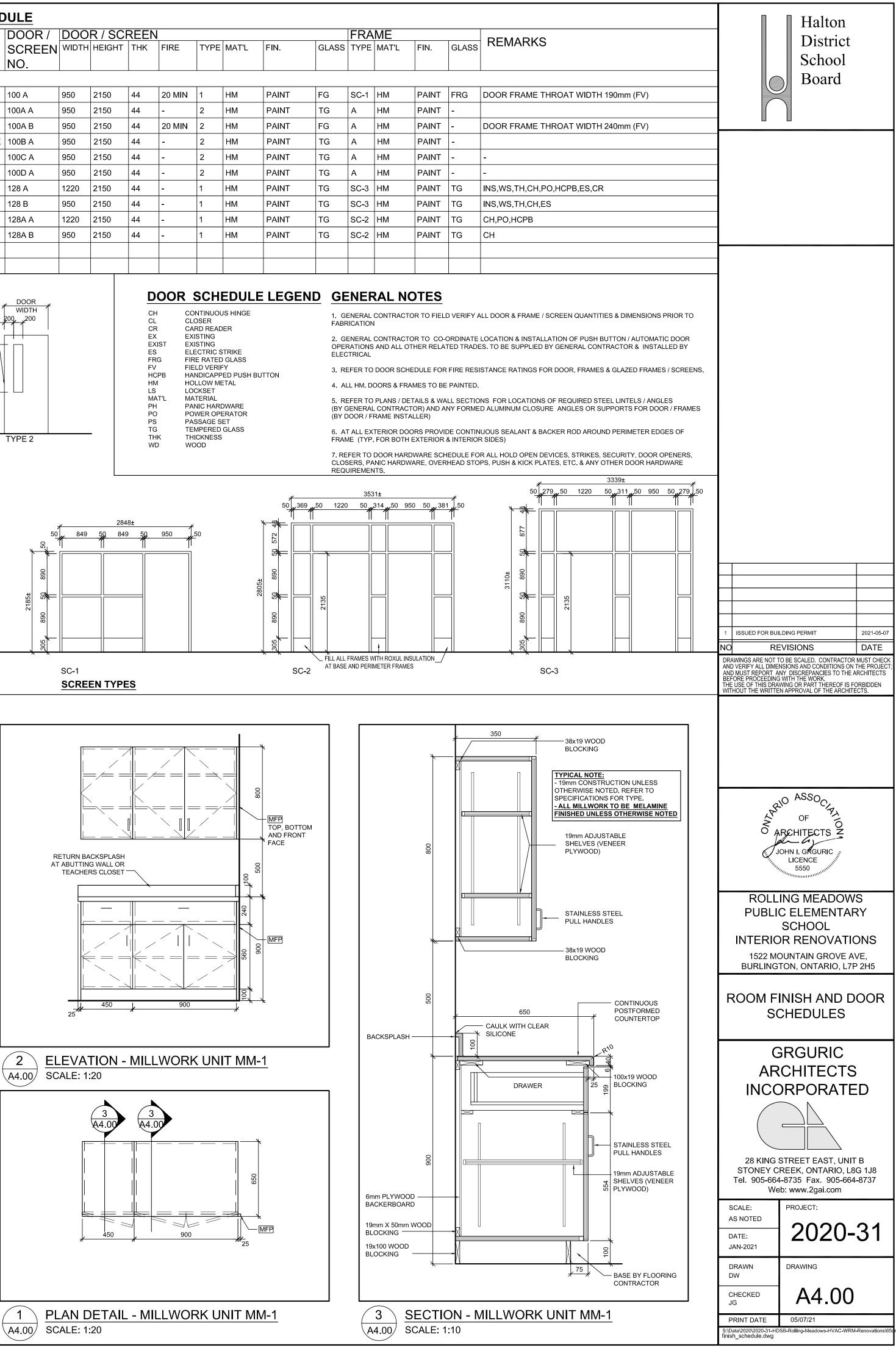
UNO SCHEDULES ARE TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.

2. PAINT ALL EXPOSED MISCELLANEOUS METALS AND SERVICES (E.G. DUCTS, CONDUITS, PIPING, ETC.) WHERE CEILINGS AND WALLS ARE SCHEDULED TO BE PAINTED.

EXISTING WALLS SHALL BE CHASED AND OPENINGS CREATED AS REQUIRED TO EXECUTE THE WORK.

MAKE GOOD ALL MATERIALS AND FINISHED WHERE DISTURBED AND ALTERATIONS OCCUR. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR FULL EXTENT OF WORK REQUIRED. NOTE THAT MAKING GOOD INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF SERVICES SHOWN ON DRAWINGS.

ROOM	DOOR /		R / SCI	REEN	1	1	1	
NAME	SCREEN NO.	WIDTH	HEIGHT	ТНК	FIRE	TYPE	MAT'L	FIN.
	1	1		1		1	1	
OFFICE	100 A	950	2150	44	20 MIN	1	НМ	PAINT
MEETING ROOM	100A A	950	2150	44	-	2	НМ	PAINT
MEETING ROOM	100A B	950	2150	44	20 MIN	2	НМ	PAIN
VICE PRINCIPAL'S OFFICE	100B A	950	2150	44	-	2	НМ	PAIN
PRINCIPAL'S OFFICE	100C A	950	2150	44	-	2	НМ	PAINT
CYC ROOM	100D A	950	2150	44	-	2	НМ	PAIN
VESTIBULE	128 A	1220	2150	44	-	1	НМ	PAIN
VESTIBULE	128 B	950	2150	44	-	1	нм	PAIN
CORRDIOR	128A A	1220	2150	44	-	1	НМ	PAIN
CORRIDOR	128A B	950	2150	44	-	1	НМ	PAIN
YPE 1	TYPE 2			CF EX ES FV HO HN SM PC SG TH WI	R CA EX EX IST EX G FIF PB HA M LO NT'L MA PO PO PA TE INT'L PA INT	RD READ (ISTING ECTRIC S RE RATED ELD VERIF INDICAPP DLOW ME OCKSET ATERIAL NIC HARE WER OPE SSAGE SI IMPERED IICKNESS	TRIKE GLASS Y ED PUSH B TAL WARE RATOR ET GLASS	UTTON
DOOR 50 WIDTH	2185± 2185± 50 205 890 50 890 50	849			950	<u>.</u> 50		. 2805± 305 890 50 890 50 572 48
	MEETING ROOM MEETING ROOM VICE PRINCIPAL'S OFFICE PRINCIPAL'S OFFICE CYC ROOM VESTIBULE CORRDIOR CORRIDOR DOOR WIDTH 200 LATCH SIDE YPE 1 OOR TYPES	DFLOOR OFFICE 100 A MEETING ROOM 100A A MEETING ROOM 100A B VICE PRINCIPAL'S OFFICE 100B A PRINCIPAL'S OFFICE 100C A CYC ROOM 100D A VESTIBULE 128 A VESTIBULE 128A A CORRDIOR 128A B OOR 100D A VESTIBULE 128A A CORRIDOR 128A B OOR 100D A VESTIBULE 128A A CORRIDOR 128A B OOR 1000 A VESTIBUE 128A B OOR 1000 A VESTIBUE 128A B OOR 128A B OOR 1000 A VESTIBUE 128A B OOR 128A B OOR 128A B OOR 1000 A VESTIBUE 128 B OOR 100 A MUDTH 100 A VIDTH 100 A VIDTH 100 A VIDTH 100 A	ND FLOOR OFFICE 100 A 950 MEETING ROOM 100A A 950 MEETING ROOM 100A B 950 VICE PRINCIPAL'S OFFICE 100B A 950 CYC ROOM 100D A 950 VESTIBULE 128 A 1220 VESTIBULE 128 A 1220 CORRDIOR 128A A 1220 CORRIDOR 128A B 950 CORRIDOR 128A B 950 DOOR 128A B 950 DOOR 128A B 950 TYPE 1 TYPE 2 DOOR TYPES	ND FLOOR OFFICE 100 A 950 2150 MEETING ROOM 100A A 950 2150 MEETING ROOM 100A B 950 2150 VICE PRINCIPAL'S OFFICE 100C A 950 2150 CYC ROOM 100D A 950 2150 VICE PRINCIPAL'S OFFICE 100C A 950 2150 CYC ROOM 100D A 950 2150 VESTIBULE 128 A 1220 2150 CORRDIOR 128A A 1220 2150 CORRIDOR 128A B 950 2150 VIDTH 200 LATCH SIDE 200 200 WIDTH 200 LATCH SIDE 200 200 YPE 1 TYPE 2 200 300 300 WIDTH 1 1 300 300 WIDTH 1 1 1 300 State	ND FLOOR OFFICE 100 A 950 2150 44 MEETING ROOM 100A A 950 2150 44 MEETING ROOM 100A B 950 2150 44 VICE PRINCIPAL'S OFFICE 100C A 950 2150 44 CYC ROOM 100D A 950 2150 44 VESTIBULE 128 A 1220 2150 44 VESTIBULE 128 A 1220 2150 44 CORRDIOR 128A A 1220 2150 44 CORRIDOR 128A B 950 2150 44 MIDTH 1000 1000 1000 1000 1000 VIDTH 1000 1000 1000 1000	DD FLOOR OFFICE 100 A 950 2150 44 20 MIN MEETING ROOM 100A A 950 2150 44 - MEETING ROOM 100A B 950 2150 44 - VICE PRINCIPAL'S OFFICE 100C A 950 2150 44 - PRINCIPAL'S OFFICE 100C A 950 2150 44 - CYC ROOM 100D A 950 2150 44 - VESTIBULE 128 A 1220 2150 44 - VESTIBULE 128 A 1220 2150 44 - CORRIDOR 128A A 1220 2150 44 - CORRIDOR 128A B 950 2150 44 - DOOR WIDTH 90 200 - - - WIDTH 200 LATCH SIDE DOOR - - - - YPE 1 TYPE 2 TYPE 2 - - - - - - WIDTH 90 <t< th=""><th>DD FLOOR OFFICE 100 A 950 2150 44 20 MIN 1 MEETING ROOM 100A A 950 2150 44 - 2 MEETING ROOM 100A B 950 2150 44 - 2 VICE PRINCIPAL'S OFFICE 100B A 950 2150 44 - 2 PRINCIPAL'S OFFICE 100C A 950 2150 44 - 2 VEC PRINCIPAL'S OFFICE 100C A 950 2150 44 - 1 VECTROOM 100D A 950 2150 44 - 1 VESTIBULE 128 A 1220 2150 44 - 1 CORRIDOR 128A A 1220 2150 44 - 1 CORRIDOR 128A B 950 2150 44 - 1 CORRIDOR 128A B 950 2150 44 - 1 CORRIDOR LATCH SDE MOTH CONTINUOL CLOSE F CONTINUOL CLOSE F CONTINUOL CLOSE F FRG FILED VERN POP POW</th><th>DD FLOOR OFFICE 100 A 950 2150 44 20 MIN 1 HM MEETING ROOM 100A A 950 2150 44 - 2 HM MEETING ROOM 100A B 950 2150 44 - 2 HM MEETING ROOM 100A B 950 2150 44 - 2 HM VICE PRINCIPAL'S OFFICE 100C A 950 2150 44 - 2 HM CYC ROOM 100D A 950 2150 44 - 2 HM VESTIBULE 128 A 1220 2150 44 - 1 HM CORRIDOR 128A A 1220 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORREDUCR 200 CO</th></t<>	DD FLOOR OFFICE 100 A 950 2150 44 20 MIN 1 MEETING ROOM 100A A 950 2150 44 - 2 MEETING ROOM 100A B 950 2150 44 - 2 VICE PRINCIPAL'S OFFICE 100B A 950 2150 44 - 2 PRINCIPAL'S OFFICE 100C A 950 2150 44 - 2 VEC PRINCIPAL'S OFFICE 100C A 950 2150 44 - 1 VECTROOM 100D A 950 2150 44 - 1 VESTIBULE 128 A 1220 2150 44 - 1 CORRIDOR 128A A 1220 2150 44 - 1 CORRIDOR 128A B 950 2150 44 - 1 CORRIDOR 128A B 950 2150 44 - 1 CORRIDOR LATCH SDE MOTH CONTINUOL CLOSE F CONTINUOL CLOSE F CONTINUOL CLOSE F FRG FILED VERN POP POW	DD FLOOR OFFICE 100 A 950 2150 44 20 MIN 1 HM MEETING ROOM 100A A 950 2150 44 - 2 HM MEETING ROOM 100A B 950 2150 44 - 2 HM MEETING ROOM 100A B 950 2150 44 - 2 HM VICE PRINCIPAL'S OFFICE 100C A 950 2150 44 - 2 HM CYC ROOM 100D A 950 2150 44 - 2 HM VESTIBULE 128 A 1220 2150 44 - 1 HM CORRIDOR 128A A 1220 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORRIDOR 128A B 950 2150 44 - 1 HM CORREDUCR 200 CO



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GENERAL NOTES

CONFORM TO THE REQUIREMENTS OF THE LATEST ONTARIO BUILDING CODE (OBC) INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION. THE LATEST VERSION OF ALL STANDARDS AND CODES LISTED BELOW SHALL BE USED.

2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.

WHERE DISCREPANCIES EXIST BETWEEN CONTRACT DOCUMENTS, INCLUDING DRAWINGS AND APPLICABLE CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

4. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

5. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" BY MTE CONSULTANTS.

6. UNDER NO CIRCUMSTANCES ARE THESE DRAWINGS TO BE SCALED, INCLUDING FOR PREPARATION OF SHOP DRAWINGS, CONSTRUCTION LAYOUT OR BIDDING PURPOSES. ERRORS MADE BY PERSONS SCALING THESE DRAWINGS SHALL NOT BE THE RESPONSIBILITY OF MTE CONSULTANTS.

7. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF PITS, BASES, HOUSE KEEPING PADS, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.

8. BEFORE PROCEEDING WITH WORK, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH ALL CHARACTERISTICS AFFECTING NEW AND EXISTING CONSTRUCTION. ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

9. SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO ORDERING OF MATERIALS. THE CONTRACTOR SHALL REIMBURSE ALL CONSULTANTS FOR ADDITIONAL COSTS INCURRED AS A RESULT OF REVIEWING ANY CHANGES MADE TO THE CONTRACT DOCUMENTS.

10. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS -O.REG. 213/91.

11. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN ALL SHORING AND TEMPORARY BRACING AS PER O.REG 213/91 AND THE CONTRACTOR SHALL RETAIN AN ENGINEER AS REQUIRED.

12. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE BELOW.

13. MTE CONSULTANTS WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION IN ACCORDANCE WITH THE PERFORMANCE STANDARDS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ONTARIO BY MEANS OF A RATIONAL SAMPLING PROCEDURE TO DETERMINE WHETHER THE CONSTRUCTION OF THAT WORK SHOWN ON THE MTE DRAWINGS IS IN GENERAL CONFORMITY WITH THE PLANS, SKETCHES, DRAWINGS, AND SPECIFICATIONS FORMING PART OF THE CONTRACT DOCUMENTS PREPARED BY "MTE". THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT. "MTE" SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS

14. IT IS THE RESPONSIBILITY OF BOTH THE OWNER AND THE CONTRACTOR TO NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS SO THE ENGINEER CAN COMPLETE GENERAL REVIEWS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK. GENERALLY, REVIEWS BY THE ENGINEER WILL BE REQUIRED FOR REBAR PRIOR TO CONCRETE PLACEMENT, FOOTING AND FOUNDATIONS PRIOR TO BACKFILLING, AND ABOVE GRADE FRAMING PRIOR TO INSTALLATION OF INTERIOR FINISHES.

TESTING AND INSPECTION

THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

ITEM	REQ'D	COMMENTS
SOIL BEARING CAPACITY	NO	
SOIL COMPACTION	NO	
HELICAL PIER INSTALLATION	NO	
REINFORCING STEEL PLACMENT	YES	INSPECT FINAL PLACEMENT
CONC. COMPRESSIVE TESTS	NO	
CONCRETE SLUMP	NO	
STRUCTURAL STEEL BOLTING	NO	
STRUCTURAL STEEL WELDING	YES	INSPECT ALL FIELD WELDS
MORTAR CUBES	NO	

\sim	\sim	\sim	\sim	\sim
NOTE:				

DENOTES WORK HAS BEEN REMOVED FROM SCOPE. YPICAL TO ALL PAGES

PROJECT DESIGN DATA TA	BLE				
BUILDING IMPORTANCE CATEGORY	NOR	MAL			
FLOOR AND ROOF DESIGN LOADS AS NOTED ON	N FRAMING PLANS				
SPECIFIED WIND LOADS					
HOURLY WIND PRESSURE (1/50) DESIGN DATA	0.46 kPa				
WIND DESIGN CATAGORY	CATAGORY 2				
TERRAIN	OPEN				
SPECIFIED SNOW LOADS					
BASIC ROOF SNOW LOAD	S	1.280 kPa			
	Ss	1.100 kPa			
SNOW AND RAIN LOADING (1/50) DESIGN	Sr	0.400 kPa			
DATA	24HR RAIN	103mm			
	Cb	0.8			
	Cw	1.0			
FACTORS USED FOR BASIC ROOF SNOW LOAD	Cs	1.0			
	Ca	1.0			
ADDITIONAL SNOW ACCUMULATION AROUND OBSTRUC TO HIGHER ROOF LEVELS OR WALLS IS INDICATED ON					

SPECIFIED EARTHQUAKE LOA	DS	
	Sa (0.2)	0.2660
	Sa (0.5)	0.1310
SEISMIC LOADING DESIGN DATA	Sa (1.0)	0.0620
	Sa (2.0)	0.0290
	Sa (5.0)	0.0068
	Sa (10.0)	0.0027
	PGA	0.172
	PGV	0.102
SITE CLASS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER	SITE CLASS	D
SEISMIC FORCE MODIFICATION FACTORS	Rd	1.5
FOR SEISMIC FORCE RESISTING SYSTEM	Ro	1.5
SEISMIC HAZARD INDEX	leFaSa (0.2)	0.274

SEISMIC HAZARD INDEX

ALL LOADS AND ANALYSIS CONFROM TO THE 2012 OBC DIV B PART 4 (INCLUDING AMENDMENTS MADE ON JANUARY 1, 2020) AND THE USER'S

- **GUIDE NBC 2010 STRUCTURAL COMMENTARIES** ALL DESIGN DATA ABOVE IS FROM THE 2012 OBC SUPPLEMENTARY STANDARD SB-1 TABLE 1.2.
- WIND LOADING IS BASED ON THE STATIC PROCEDURE. SEISMIC LOADING IS BASED ON THE EQUIVALENT STATIC FORCE
- PROCEDURE. THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSION UNLESS NOTED.
- THE FOUNDATION WALLS HAVE BEEN DESIGNED ASSUMING THAT THEY ARE NOT SUBJECT TO HYDROSTATIC PRESSURE. ENSURE PROVISIONS HAVE BEEN MADE FOR APPROPRIATE DRAINAGE OF GROUNDWATER.

MASONRY

ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS CAN/CSA-A370, CAN/CSA-A371 AND CSA S304.1.

2. ALL MASONRY UNITS OF CONCRETE SHALL CONFORM TO THE CSA STANDARD CAN/CSA-A165 AND SHALL HAVE A MINIMUM LOAD BEARING STRENGTH OF 15MPA BASED ON NET CROSS-SECTIONAL AREA.

3. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18 GRADE 400W FOR REINFORCING STEEL AND BE DEFORMED HI-BOND HARD GRADE WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.

4. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR LOAD BEARING BLOCK. TYPE N MORTAR SHALL BE USED FOR BRICK VENEER OR DECORATIVE NON-LOAD BEARING BLOCK.

LAB CURED MORTAR COMPRESSIVE STRENGTHS JOB PREPARED MIX) TYPE S: MIN. 28 DAY STRENGTH 12.0 MPa

TYPE N: MIN. 28 DAY STRENGTH 7.5 MPA MORTAR MIX PROPORTIONS

MIX ACCORDING TO TABLE 3 OR 4 OF CSA A179. MORTAR MIX SHALL BE TESTED FOR STRENGTH AND APPROVED BY THE ENGINEER PRIOR TO USE ON THE JOB. <u>GROUT:</u> (WHERE CALLED FOR ON DRAWINGS) SHALL CONFORM TO CAN/CSA A179

MIN. 28 DAY STRENGTH 20 MPa

5. ALL MASONRY WALLS SHALL BE HORIZONTALLY REINFORCED WITH NO.9 (3.7mm) STANDARD DUR-O-WAL TRUSS JOINT REINFORCEMENT (OR APPROVED EQUAL) AND CONTINUOUS REINFORCEMENT AT EVERY SECOND COURSE (400 MM/16")

a. ALL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED. b. REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 300mm (12") AT ALL JOINTS.

PREFABRICATED CORNER AND TEE REINFORCEMENT SHALL BE USED AT ALL WALL INTERSECTIONS

d. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200 mm (8") APART, BELOW THE TOP OF WALLS. e. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200 mm (8") APART, IMMEDIATELY ABOVE LINTELS AND BELOW SILLS

AND SHALL EXTEND 600 MM (2 FT.) BEYOND THE JAMB. f. REINFORCEMENT SHALL BE PLACED AS TO PROVIDE 16 MM (5/8") MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12 mm (1/2") COVER ON THE INTERIOR FACE OF WALL.

6. ALL TIES FOR MASONRY VENEER SHALL BE DESIGNED AND SUPPLIED BY THE MASONRY CONTRACTOR IN ACCORDANCE WITH CSA STANDARDS S304.1 AND CAN/CSA-A370.

7. PROVIDE COLD WEATHER PROTECTION AS REQUIRED BY CAN/CSA-A371 "MASONRY CONSTRUCTION FOR BUILDINGS".

8. ALL BLOCK MASONRY UNITS SHALL BE CONSTRUCTED WITH FULL HEAD JOINTS, AND FULL BED JOINTS UNDER THE FULL BEARING AREAS OF THE FACE SHELLS, AND UNDER WEBS SURROUNDING THOSE CELLS TO BE FILLED WITH GROUT.

9. THE INTERSECTION OF ALL MASONRY WALLS SHALL BE TOOTHED OR CONTINUOUSLY REINFORCED WITH JOINT REINFORCEMENT.

MASONRY

10. PROVIDE A MINIMUM DEPTH OF 200 mm (8") OF 100% SOLID MASONRY UNITS. OR FULLY GROUTED UNITS, FOR SLABS OR STEEL DECK BEARING ON MASONRY, UNLESS MORE IS SHOWN ON THE DRAWINGS.

11. ALL MASONRY BENEATH CONCENTRATED LOADS (SUCH AS BEAMS, LINTELS, AND JOISTS) SHALL HAVE VOIDS FILLED WITH 20 MPA GROUT FOR A MINIMUM DEPTH OF 400 mm (16") OR 3 TIMES THE LENGTH OF BEARING (WHICHEVER IS GREATER) AND PROJECTING A MINIMUM OF 200 mm (8") OR THE LENGTH OF BEARING BEYOND EACH EDGE OF BEARING (WHICHEVER IS GREATER), UNLESS OTHERWISE NOTED OR SHOWN.

12. WHERE STEEL BEARING PLATES ARE SHOWN ON THE DRAWINGS, THEY SHALL BE ANCHORED WITH A MINIMUM OF TWO 12MM DIA X 450mm LONG + 50mm (1/2" DIA X 18" LONG + 2") HOOKED ANCHOR RODS WELDED TO THE PLATES AND EMBEDDED INTO GROUT FILL AS NOTED ABOVE.

13. SEE PLANS AND SCHEDULES REGARDING LINTEL SIZES FOR MASONRY WALLS

AND VENEER. FOR ALL OPENINGS OR RECESSES IN MASONRY NOT SHOWN ON DRAWINGS GREATER THAN 300mm (12") AND UP TO 1200mm (4 FT.), INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT, PROVIDE ONE L89X89X6.4 (L3 1/2 X 3 1/2 X 1/4") ANGLE FOR EACH 100 mm (4") THICKNESS OF WALL

14. MAINTAIN SUPPORT OF MASONRY LINTELS FOR A MINIMUM OF SEVEN DAYS OR UNTIL SUFFICIENT STRENGTH IS GAINED TO SAFELY SUPPORT LOADS IMPOSED.

15. FULLY GROUT BLOCK CELLS AT PARAPETS.

16. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL ADEQUATE DIAPHRAGM ACTION CAN BE DEVELOPED BY INSTALLED FLOOR AND ROOF STRUCTURAL COMPONENTS.

17. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS. SPACING OF CONTROL JOINTS IN ALL WALLS SHALL BE CONSTRUCTED AS PER PLAN, BUT SHALL NOT EXCEED 6000 mm (20'-0") O.C. ALL REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS. CONTROL JOINTS SHALL BE CAULKED WITH FOAM BACKER ROD AND SHALL NOT BE FILLED WITH MORTAR

18. REINFORCED MASONRY:

a. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN OF MORTAR. b. GROUT FOR REINFORCED CELLS, BOND BEAMS, LINTELS AND CELLS

CONTAINING DOWELS, ANCHOR BOLTS AND INSERTS PER NOTE #3C. c. PROVIDE MINIMUM 2-15M VERTICALS FULL HEIGHT AT ALL WALL ENDS, CORNERS, INTERSECTIONS AND OPENINGS UNLESS OTHERWISE NOTED ON DRAWINGS

d. PROVIDE 1-15M VERTICAL FULL HEIGHT EACH SIDE OF CONTROL JOINTS. e. DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT IN

- f. PROVIDE THE FOLLOWING LAPS FOR THE REINFORCEMENT INDICATED: - 10M BARS = 450 mm (18")
- 15M BARS = 600 mm (24")

- 20M BARS = 900 mm (36") EMBEDDED ITEMS ARE NOT TO INTERFERE WITH THE INTEGRITY OF THE

MASONRY WALL OR LOCATION OF REINFORCEMENT. PROVIDE FULLY GROUTED LINTEL BEAM FOR CONDUITS AND PIPES RUNNING HORIZONTALLY WITHIN WALL

OPEN WEB STEEL JOISTS

1. OPEN WEB STEEL JOISTS (OWSJ'S) SHALL CONFORM TO CSA STANDARDS S16 AND CAN/CSA-S136.

2. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STANDARD W47, DIVISION 1 AND DIVISION 2. FABRICATOR TO SUPPLY CERTIFICATION OF FUSION WELDING AND WELDING MAY ONLY BE CARRIED OUT IN ACCORDANCE WITH OWNER'S SAFETY REGULATIONS REGARDING WELDING.

3. JOISTS TO BE DESIGNED FOR THE LOADS AS SPECIFIED ON DRAWINGS AND IN ACCORDANCE WITH THE 2012 OBC. DESIGN OF JOISTS SHALL ALSO INCLUDE ALL LOADS FROM MECHANICAL EQUIPMENT SUCH AS ROOF TOP UNITS, DUCTS AND PIPING.

4. SHOP DRAWINGS OF JOIST DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION. JOIST DESIGN AND DETAILS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN ONTARIO. JOIST DESIGN CALCULATIONS SHALL BE SUBMITTED FOR RECORD PURPOSES.

5. PROVIDE SUFFICIENT CAMBER TO JOISTS TO ENSURE "0" CAMBER AFTER APPLICATION OF ALL DEAD LOADS SHOWN. ADJUST STIFFNESS AND REQUIRED CAMBER OF JOISTS ADJACENT TO MASONRY WALLS, STEEL BEAMS OF SHORTER SPAN AND THE LIKE TO PERMIT THE PROPER FASTENING OF THE STEEL DECK. AS A GUIDE, LIMIT THE DIFFERENTIAL DEFLECTION OF THE ADJACENT JOIST, UNDER ALL DEAD LOADS, TO L/120, WHERE 'L' IS THE SPAN OF THE STEEL DECK PERPENDICULAR TO THE JOISTS.

6. "TJ" ON PLANS DENOTES "TIE JOIST". BOTTOM CHORD TO BE FRAMED INTO COLUMNS, BEAMS OR WALLS. ALL JOISTS AT COLUMNS TO BE TIE JOISTS UNLESS OTHERWISE NOTED. TIE JOIST CONNECTIONS SHALL BE BOLTED.

7. WHERE TIE JOISTS ARE INDICATED, DESIGN TOP AND BOTTOM CHORDS AND CONNECT TO COLUMNS TO SAFELY DEVELOP LOADS SHOWN OR A MINIMUM OF A 25 kN SPECIFIED LOAD IN TENSION OR COMPRESSION.

8. DESIGN AND INSTALLATION OF ALL OWSJ BRIDGING SHALL BE IN ACCORDANCE WITH CSA S16. COMBINED DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED AT THE ENDS OF BRIDGING LINES AS REQUIRED. ENDS OF BRIDGING LINES SHALL BE ANCHORED TO STEEL, MASONRY OR OTHERWISE SHOWN AND BE CAPABLE OF RESISTING AN AXIAL LOAD OF AT LEAST 3 kN.

9. BRIDGING SHOWN ON THE DRAWINGS IS INTENDED AS A GUIDELINE ONLY. DESIGN AND PROVIDE BRIDGING FOR ALL OWSJ AND TRUSSES AS PER CSA S16. 10. OWSJ'S SHALL HAVE 100 mm (4") SHOE (U.N.O.)

11. FOR OWSJ BEARING ON MASONRY, JOIST SUPPLIER SHALL DESIGN AND SUPPLY ALL BEARING PLATES AND BEARING PRESSURE SHALL NOT EXCEED 1.2 MPa (175 psi).

12. ALL STEEL JOISTS SHALL BE WELDED TO STEEL BEAMS OR BEARING PLATES WITH A MINIMUM 50 mm x 5 mm (2" x 3/16") FILLET ON BOTH SIDES OF SHOES.

13. ALL HANGERS, STUB COLUMNS, TRAPEZE BARS, ETC. THAT SUPPORT MECHANICAL, ELECTRICAL OR STRUCTURAL EQUIPMENTS, PIPES, DUCTS, CATWALKS, ETC. MUST BE CONNECTED TO AN OWSJ PANEL POINT OR WHERE THE WEB OF THE JOIST MEETS THE CHORD OF THE JOIST.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST CSA STANDARD S16

- 2. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40.20 FOR GENERAL REQUIREMENTS, AND CAN/CSA-G40.21 FOR QUALITY
- a. GRADE 350W CLASS C FOR H.S.S.
- b. GRADE 350W FOR W SHAPES, S SHAPES, AND TEES. c. ALL OTHER MISCELLANEOUS METAL SHALL BE MINIMUM GRADE 300W (U.N.O.)

3. BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 EXCEPT THAT ANCHOR BOLTS SHALL BE FABRICATED FROM STEEL ROD CONFORMING TO CSA STANDARD G40.21 OR ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 250 MPA.

4. STEEL COATINGS - UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED TO A MINIMUM LEVEL OF SSPC SP-3 AND IN ACCORDANCE WITH CSA STANDARD S16: a. ALL INTERIOR STEEL THAT IS TO BE PROTECTED BY A SPRAY APPLIED

- CEMENTIOUS FIRE PROOFING SHALL BE CLEANED AND REMAIN UNCOATED STEEL
- b. ALL OTHER INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIME PAINTED AS PER CSA/CAN-S-16. SHOP PRIMER SHALL CONFORM TO CISC/CPMA 1-73A.

c. ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIP GALVANIZED IN ACCORDANCE TO CAN/CSA-G164. TOUCH UP OF WELDS, CUTS OR SCRATCHES TO GALVANIZING SHALL BE DONE WITH A MINIMUM OF 3 COATS OF ZINC RICH PAINT.

5. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STANDARD W47, DIVISION 1 AND DIVISION 2. FABRICATOR TO SUPPLY CERTIFICATION OF FUSION WELDING, AND WELDING MAY ONLY BE CARRIED OUT IN ACCORDANCE WITH OWNER'S SAFETY REGULATIONS REGARDING WELDING.

6. FABRICATOR SHALL DESIGN CONNECTIONS AND THE LIKE IN ACCORDANCE WITH THE 2012 OBC FOR THE FORCES SHOWN ON THE DRAWINGS. WHERE FORCES ARE NOT NOTED ON THE DRAWINGS, BEAM REACTIONS SHALL BE TAKEN AS ONE-HALF OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOADS NOTED ON THE BEAM LOAD TABLES OF PART FIVE OF CISC'S HANDBOOK OF STEEL CONSTRUCTION, LATEST EDITION, PROVIDED NO POINT LOADS ACT ON THE BEAM. ALL WELDS SHALL BE 5 mm (3/16") MIN. FILLET. ALL BOLTS SHALL BE MIN. M20 (3/4") DIAMETER AND PROVIDE MIN. (2) BOLTS PER CONNECTION.

7. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT VALUES ARE NOT INDICATED, DESIGN CONNECTIONS FOR FULL MOMENT CAPACITY OF THE SMALLER MEMBER JOINED.

8. SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE. MEMBERS SHALL NOT BE SPLICED AT POINTS OF MAXIMUM STRESS. NO SPLICES SHALL BE MADE UNLESS SHOWN ON THE DRAWINGS OR REVIEWED AND APPROVED BY THE ENGINEER.

9. MOMENT FRAME AND X-BRACE CONNECTIONS SHALL HAVE ASTM A325 FRICTION TYPE M20 (3/4") MINIMUM DIAMETER BOLTS (U.N.O.).

10. SHAPE AND SIZE GUSSET PLATES TO CLEAR ARCHITECTURAL FINISHES AND MECHANICAL DUCTS AND PIPES AND ELEVATOR SHAFTS.

11. SHOP DRAWINGS OF STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.

12. ALL BEAMS CANTILEVERED OR CONTINUOUS OVER A COLUMN OR OTHER SUPPORT, AND BEAMS SUPPORTING POINTS OF CONCENTRATED LOAD, SHALL HAVE A MIN. OF 2-10 mm (3/8") STIFFENERS EACH SIDE OF WEB UNLESS OTHERWISE NOTED.

13. TOP OF COLUMNS WHICH ARE NOT BRACED BY JOISTS OR BEAMS SHALL BE BRACED DIAGONALLY TO THE ROOF OR FLOOR BY A MINIMUM OF 4-L76 x 76 x 6.4 mm (L3 x 3 x 1/4") ANGLES FOR INTERIOR COLUMNS; A MINIMUM 2-L76 x 76 x 6.4 mm (L3 x 3 x 1/4") ANGLES FOR EXTERIOR COLUMNS. BRACING SHALL BE BETWEEN TOP OF COLUMN AND TOP CHORD OF JOISTS.

14. COLUMN BASE PLATES AND BEAM BEARING PLATES SHALL BE GROUTED WITH 40 mm (1.5") NON-SHRINK 40MPa GROUT.

15. ALL COLUMNS BUILT INTO MASONRY WALLS SHALL HAVE ADJUSTABLE ANCHORS AT MINIMUM 400 mm (16") O.C.

16. STEEL BEAMS AND LINTELS SHALL HAVE 200 mm (8") MINIMUM END BEARING ON MASONRY AND 65 mm (2 1/2") MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.

- 17. FOR ALL BEAMS AND LINTELS ON STEEL BEARING PLATES. A. BEARING PLATES ARE TO BE CENTRED BELOW ALL BEAMS OR LINTELS U.N.O
- ON THE DRAWINGS. B. WELD TO BEARING PLATE WITH A MINIMUM 50 mm x 5 mm (2" x 3/16") FILLET ON BOTH SIDES OF BEAM.

18. WHERE BACK-TO-BACK ANGLES ARE USED AS LINTELS OR SUPPORTS. STITCH WELD TOGETHER AT A MAXIMUM SPACING OF 300mm (12") O.C.

19. ALL ROOF OPENINGS TO BE REINFORCED BY FRAMES COMPRISED OF C130X10 (C5X6.7) CHANNEL MEMBERS UNLESS NOTED OTHERWISE. MAXIMUM SPAN 2250 mm (7'-6").

20. SUPPORT AT COLUMNS AND IRREGULARITIES

a. INSTALL L76 x 76 x 6.4 mm (L3 x 3 x 1/4") ANGLE SEATS FOR STEEL DECK AT CONNECTIONS, AT COLUMNS OR OTHER IRREGULARITIES, TO PROVIDE

SUPPORT TO THE RIBS OF THE DECK. b. INSTALL L102 x 102 x 7.9 mm (L4 x 4 x 5/16") ANGLE SEATS FOR PRECAST

SUPPORT AT CONNECTIONS, AT COLUMNS OR OTHER IRREGULARITIES, TO PROVIDE BEARING FOR PRECAST PLANKS.

21. NO STRUCTURAL STEEL SHALL BE CUT IN THE FIELD UNLESS REVIEWED AND APPROVED BY THE ENGINEER.

22. MAINTAIN ERECTION BRACING UNTIL COMPLETION OF ENTIRE STRUCTURE, INCLUDING ROOF DECKS AND OTHER ELEMENTS WHICH ARE PART OF THE LATERAL LOAD RESISTING SYSTEM.

S1.(
S2.
S2.
S3.(

REQUIRED SUBMITTALS

THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

ITEM	REQ'D SUBMITTAL?	ENGINEER'S STAMP REQ'D?	NOTES
REBAR SHOP DRAWINGS	NO	NO	
CONCRETE MIX DESIGNS	NO	NO	
MASONRY GROUT MIX DESIGN	NO	NO	
BLOCK MILL REPORT	NO	NO	
STRUCTURAL STEEL SHOP DRAWINGS	YES	YES	FOR CONNECTIONS ONLY
STEEL JOIST SHOP DRAWINGS	YES	YES	
STEEL JOIST CALCULATIONS	YES	YES	
MISCELLANEOUS STEEL SHOP DRAWINGS	YES	YES	STAMP FOR STAIRS LADDERS AND GUARDS
STEEL DECK SHOP DRAWINGS	YES	NO	
COLD FORMED STEEL FRAMING SHOP DWGS.	NO	NO	
SEISMIC RESTRAINT OF NON-STRUCTURAL ITEMS	NO	NO	

SHOP DRAWING REVIEW

1. ERECTION AND FABRICATION SHOP DRAWINGS FOR ALL BUILDING COMPONENTS AS LISTED IN THE REQUIRED SUBMITTALS TABLE AND ANY RELATED WORKS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE COMMENCING WITH FABRICATION.

2. AS PART OF THEIR FIELD SERVICES, MTE CONSULTANTS ("MTE") WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON MTE CONSULTANT'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.

3. REVIEW OF THE SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS TECHNIQUES OF CONSTRUCTION AND INSTALLATION AND FOR COORDINATION OF THE WORK OF ALL SUB-TRADES.

4. THE APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF THE FITTING OF BUILDING COMPONENTS. ANY DISCREPANCIES IN THE SHOP DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL SHOP DRAWINGS MUST BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN ONTARIO UNLESS NOTED OTHERWISE IN THE SUBMITTALS TABLE BELOW. UNSEALED SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS ALTERNATIVE ARRANGEMENTS HAVE BEEN AGREED UPON.

STEEL DECK

DESIGN METAL DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CSA S136 FOR THE LOADS INDICATED ON THE DRAWINGS.

2. SUBMIT SHOP DRAWINGS INDICATING WELDS, MATERIALS AND FINISHES, AND BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO FOR REVIEW BY THE ENGINEER. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.

3. UNLESS NOTED OTHERWISE,

A. ROOF DECK SHALL BE 38 mm x 0.76 mm (1.5" x .030") VIC WEST STEEL INC. RD 938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS. B. FLOOR DECK SHALL BE 38 mm x 0.76 mm (1.5" x .030") VIC WEST STEEL INC. HB 938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.

4. METAL DECK SHALL BE LIGHT ZINC COATED STRUCTURAL STEEL SHEET FABRICATED AND ERECTED IN ACCORDANCE WITH CSSBI 10M, CAN/CSA-S136 AND CSSBI 101M. THE MINIMUM ZINC COATING DESIGNATION SHALL BE ZF075 (U.N.O.).

5. DECK SHALL OVERLAP A MINIMUM OF 50 mm (2") AT ALL END JOINTS AND HAVE A MINIMUM BEARING LENGTH OF 50 mm (2") ON ALL STRUCTURAL STEEL

6. DECK HAS BEEN DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED AS FOLLOWS:

WELD DECK TO SUPPORTING STEEL WITH 20 mm (3/4") DIAMETER PLUG WELD AT TRANSVERSE WELD SPACING =300 mm (12") O.C. PERIMETER WELD SPACING =300 mm (12") O.C. SIDE LAP BUTTON PUNCHING =300 mm (12") O.C.

LONGITUDINAL WELD SPACING =300 mm (12") O.C

7. DECK WELDS SHALL BE TOUCHED UP WITH APPROVED PAINT BY THE DECK ERECTOR.

8. PROTECT ROOF AND FLOOR DECK FROM DAMAGE DURING SHIPPING STORAGE AND ERECTION. CONTRACTOR SHALL REPLACE ANY PUNCTURED, DENTED OR WELD PERFORATED DECK.

9. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.

10. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS,

ETC. A. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 mm (6").

B. REINFORCE ALL OPENINGS LARGER THAN 150mm (6"), BUT NOT EXCEEDING 450 mm (18"), AS INDICATED BY THE METAL DECK SUPPLIER. C. FOR OPENINGS GREATER THAN 450mm (18") NOT SHOWN ON THE DRAWINGS, CONTACT ENGINEER FOR DIRECTION.

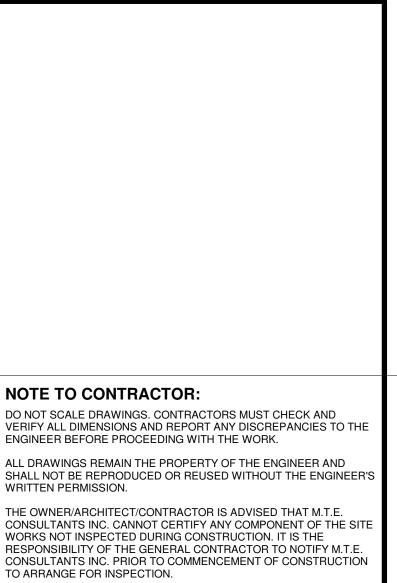
11. HANGER WIRE FOR SUSPENDED CEILINGS SHOULD PIERCE BOTH SIDES OF THE FLUTE AND BE LOOPED AROUND AND TIED.

STRUCTURAL DRAWING LIST

0 GENERAL NOTES

SECOND FLOOR FRAMING PLAN AND SCHEDU ROOF FRAMING F

EINFORCEMENT ELEVATION AND



ENGINEER BEFORE PROCEEDING WITH THE WORK.

SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION

SSUED FOR PERMIT



1 MAR. 30, 2021

Engineers, Scientists, Surveyors

Burlington **Building Structures Division**

Ph. (905)639-2552 www.mte85.com



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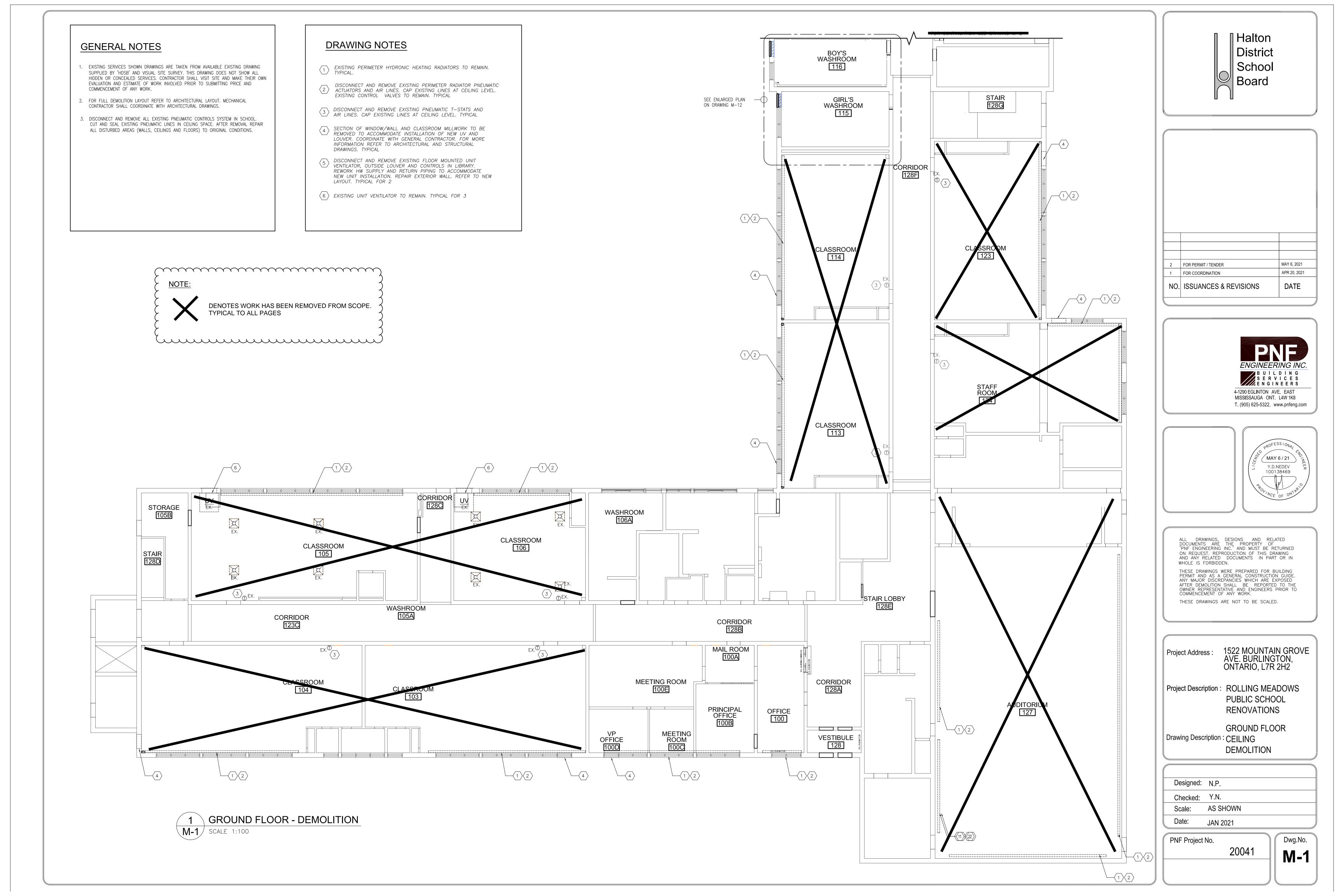
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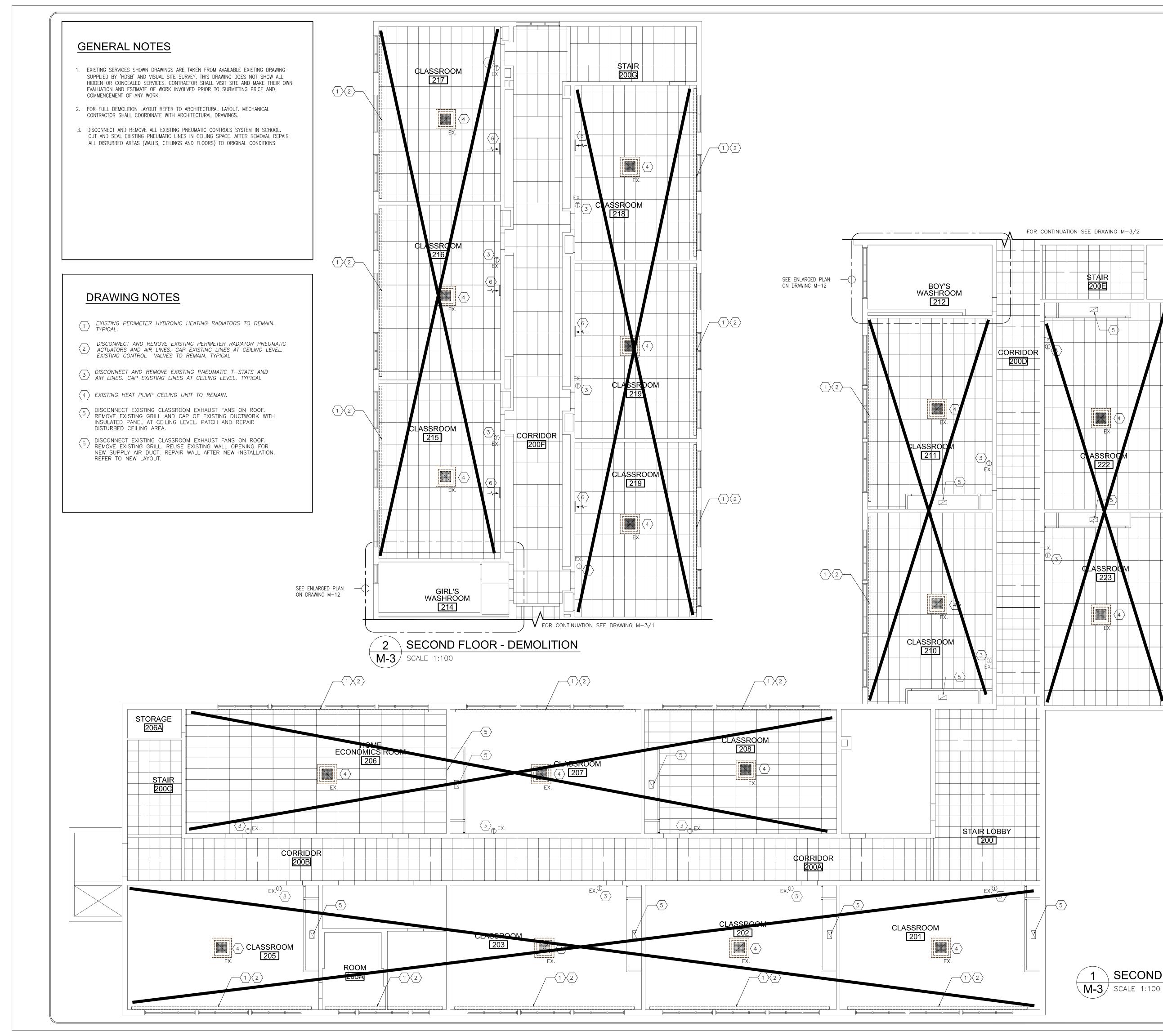
Rolling MeadowsPublic School Interior Renovations

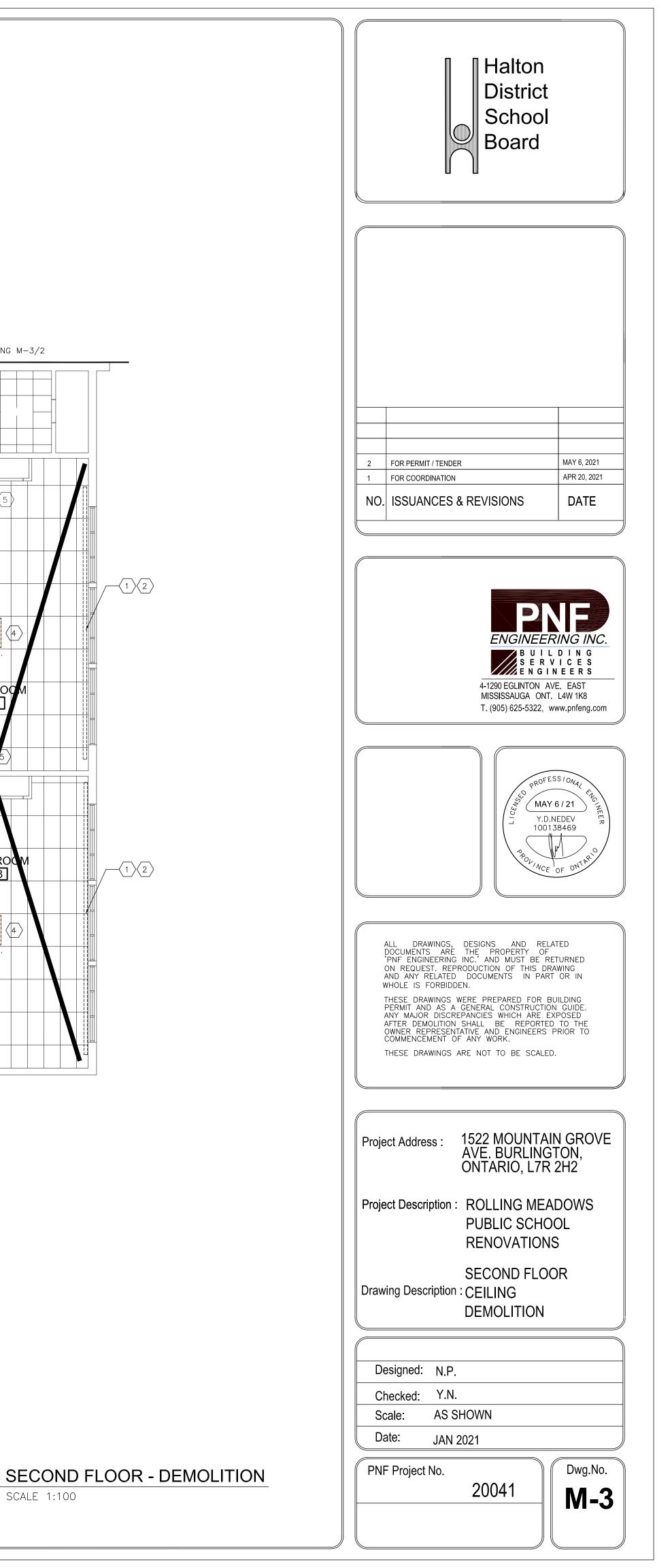
1522 MOUNTAIN GROVE AVE., BURLINGTON, ON DRAWING

GENERAL NOTES

Project Manager:	DXF	Start Date:	MAR. 2021
Design By:	PVD	Project No.:	37846-101
Drawn By:	NXP	Drawing No.:	
Scale:	AS NOTED		S1.0







- SITE AND MAKE THEIR OWN EVALUATION AND ESTIMATE OF WORK INVOLVED PRIOR TO SUBMITTING PRICE AND COMMENCEMENT OF ANY WORK.
- ACCESSORIES.
- 3. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR ACCESSING, REMOVING FROM DAMAGE, DUST, ETC. MAINTAIN BUILDING CLEAN AT ALL TIMES.
- ALL DAMAGED AND DISTURBED COMMON AREAS.
- 6. RELOCATE EXISTING SERVICES AS REQUIRED TO ALLOW FOR NEW EQUIPMENT
- 7. FIRESTOP AND SEAL ALL DUCTWORK AND PIPING WALL/CEILING/FLOOR

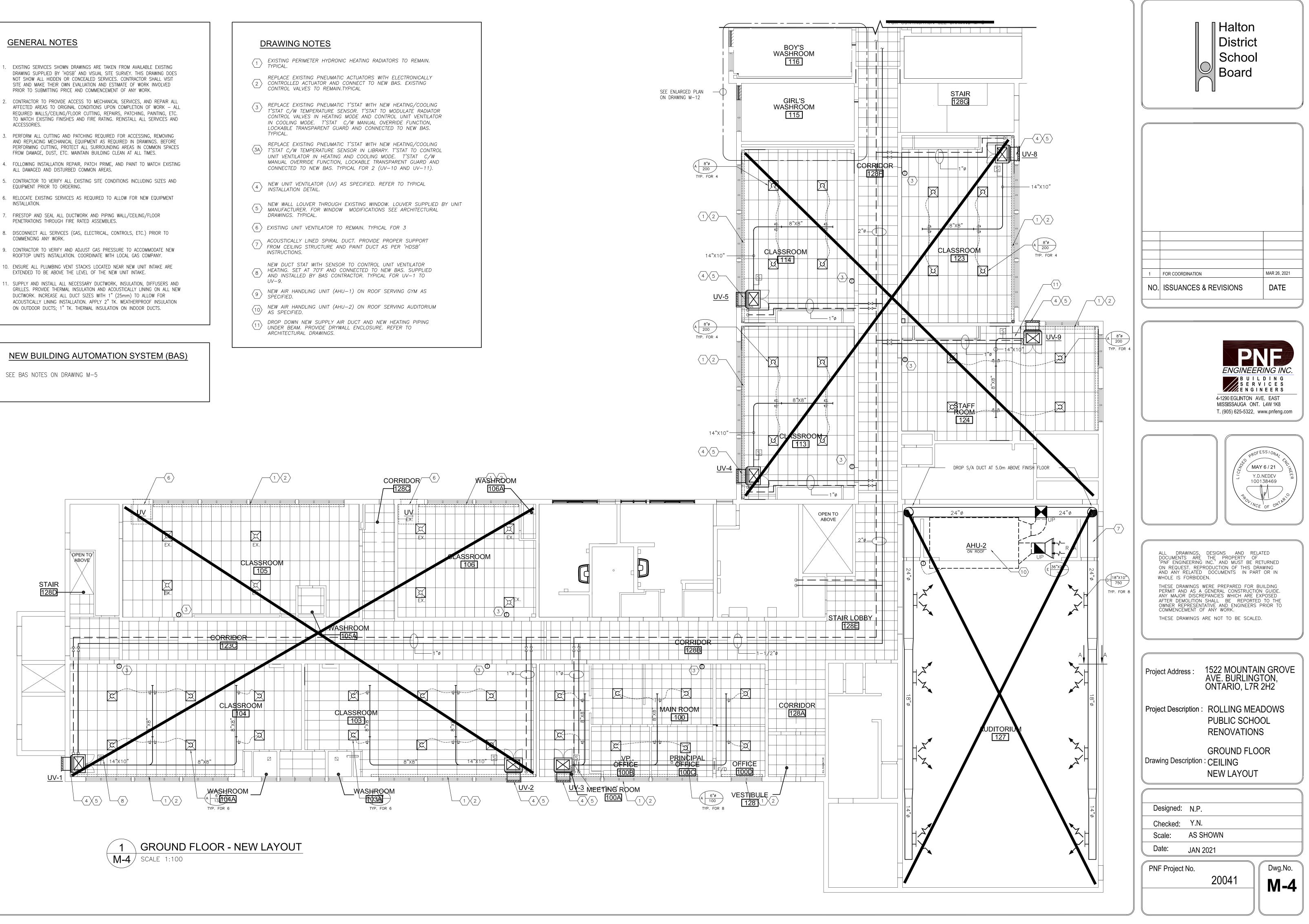
- EXTENDED TO BE ABOVE THE LEVEL OF THE NEW UNIT INTAKE.
- DUCTWORK. INCREASE ALL DUCT SIZES WITH 1" (25mm) TO ALLOW FOR ACOUSTICALLY LINING INSTALLATION. APPLY 2" TK. WEATHERPROOF INSULATION

NEW BUILDING AUTOMATION SYSTEM (BAS)

SEE BAS NOTES ON DRAWING M-5

- DRAWINGS. TYPICAL.
- INSTRUCTIONS.

- ARCHITECTURAL DRAWINGS.

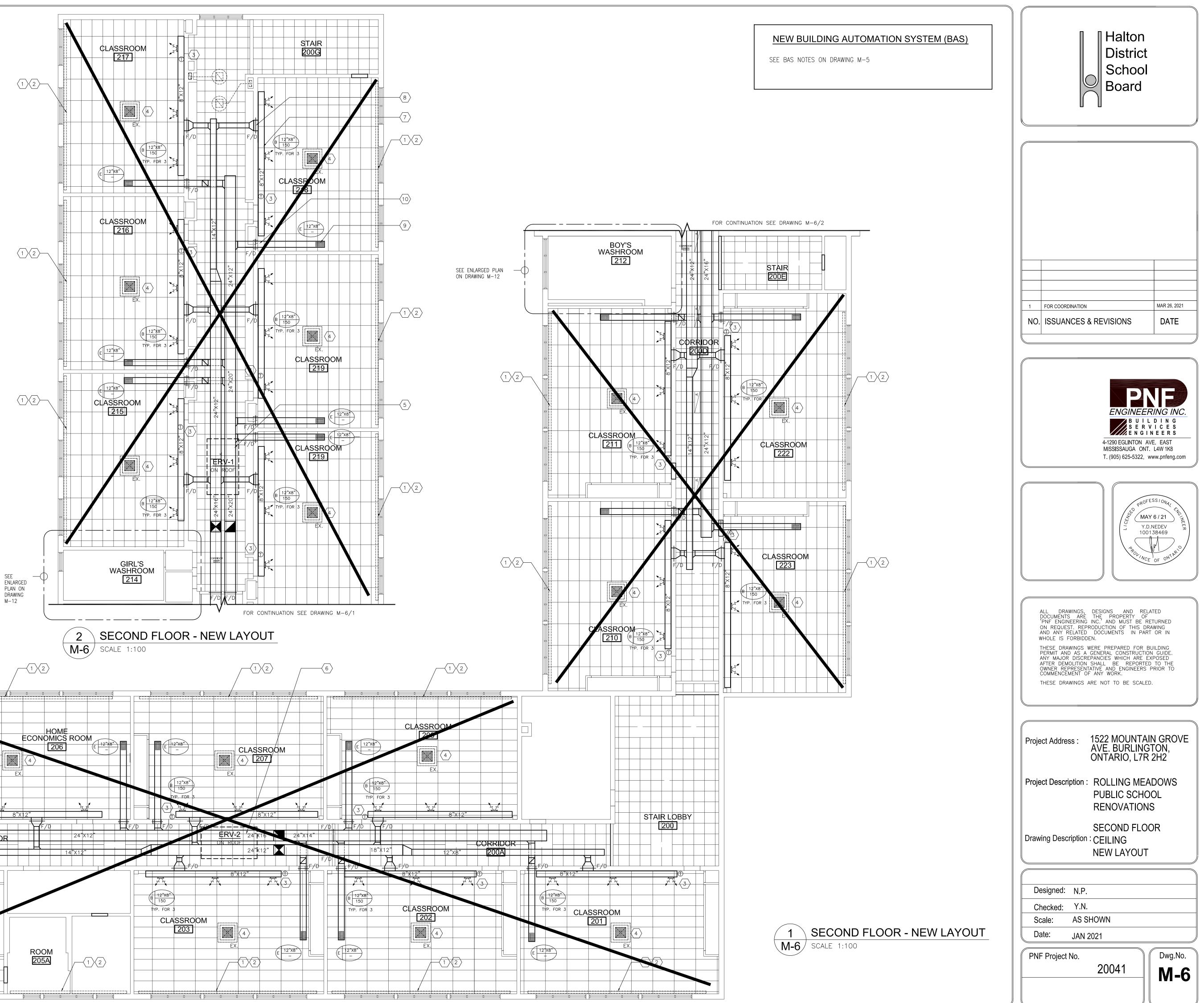


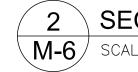
- SITE AND MAKE THEIR OWN EVALUATION AND ESTIMATE OF WORK INVOLVED PRIOR TO SUBMITTING PRICE AND COMMENCEMENT OF ANY WORK.
- ACCESSORIES.
- PERFORM ALL CUTTING AND PATCHING REQUIRED FOR ACCESSING, REMOVING
- ALL DAMAGED AND DISTURBED COMMON AREAS.
- EQUIPMENT PRIOR TO ORDERING.
- INSTALLATION.

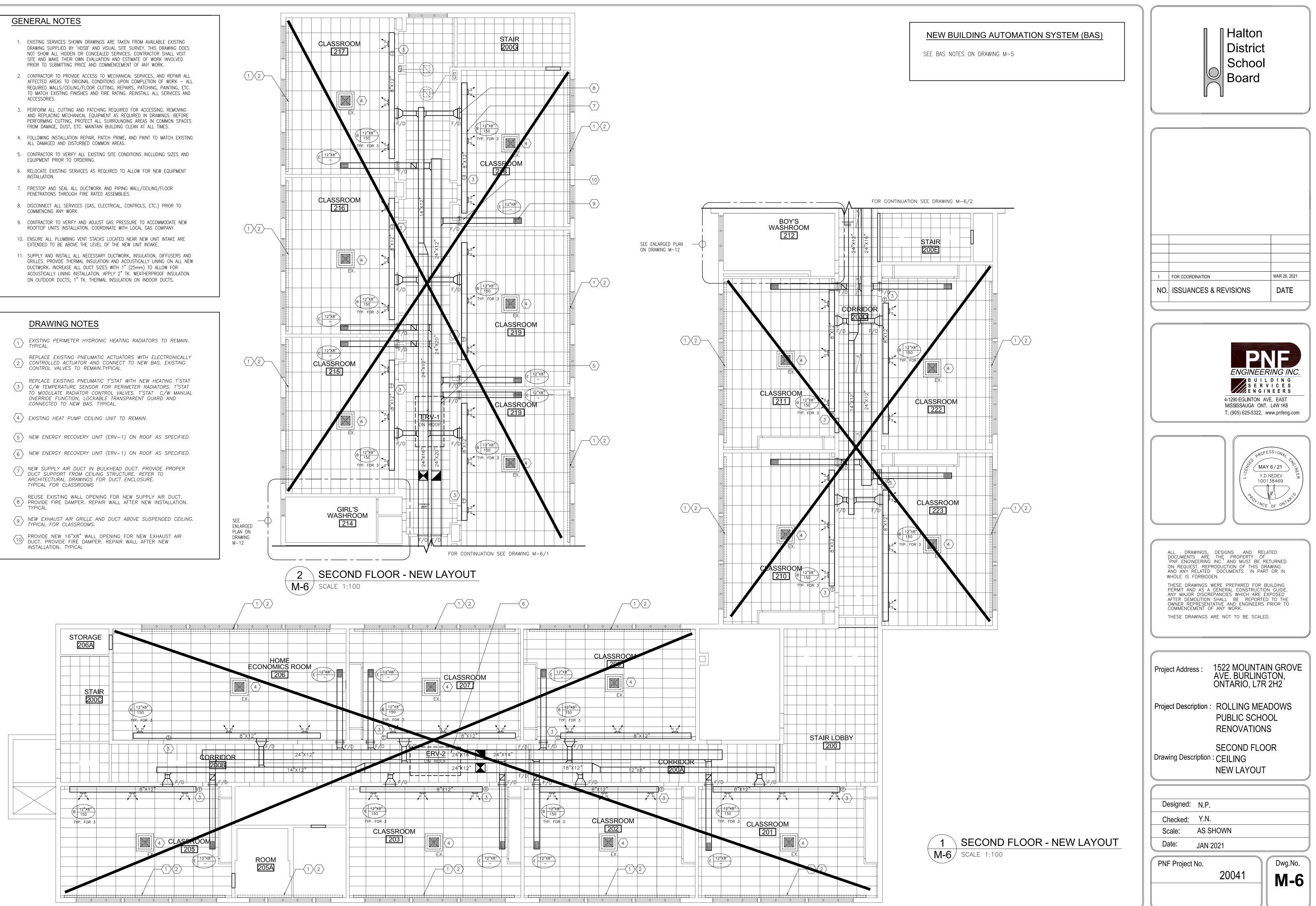
- DUCTWORK. INCREASE ALL DUCT SIZES WITH 1" (25mm) TO ALLOW FOR ACOUSTICALLY LINING INSTALLATION. APPLY 2" TK. WEATHERPROOF INSULATION

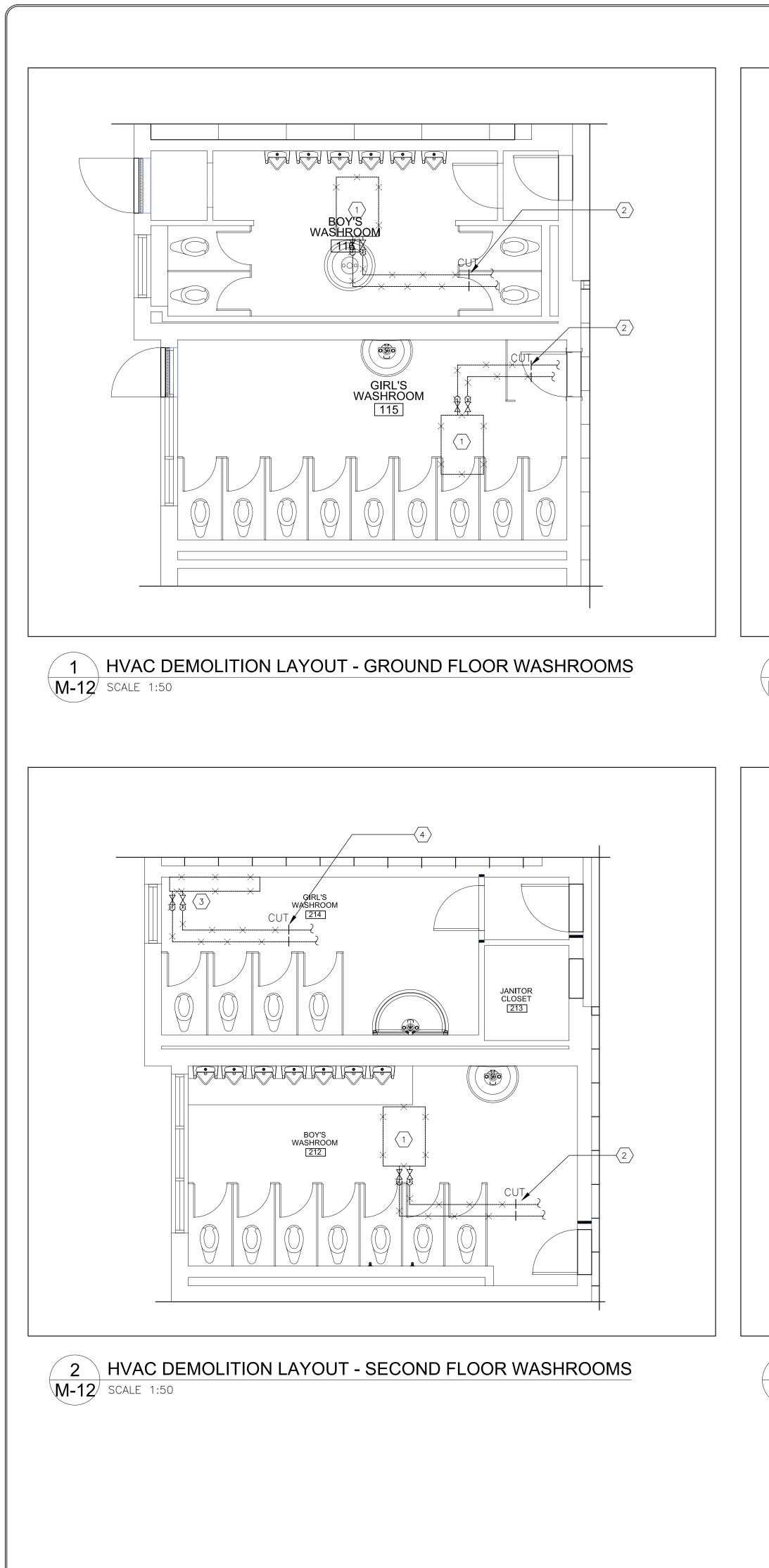
- OVERRIDE FUNCTION, LOCKABLE TRANSPARENT GUARD AND

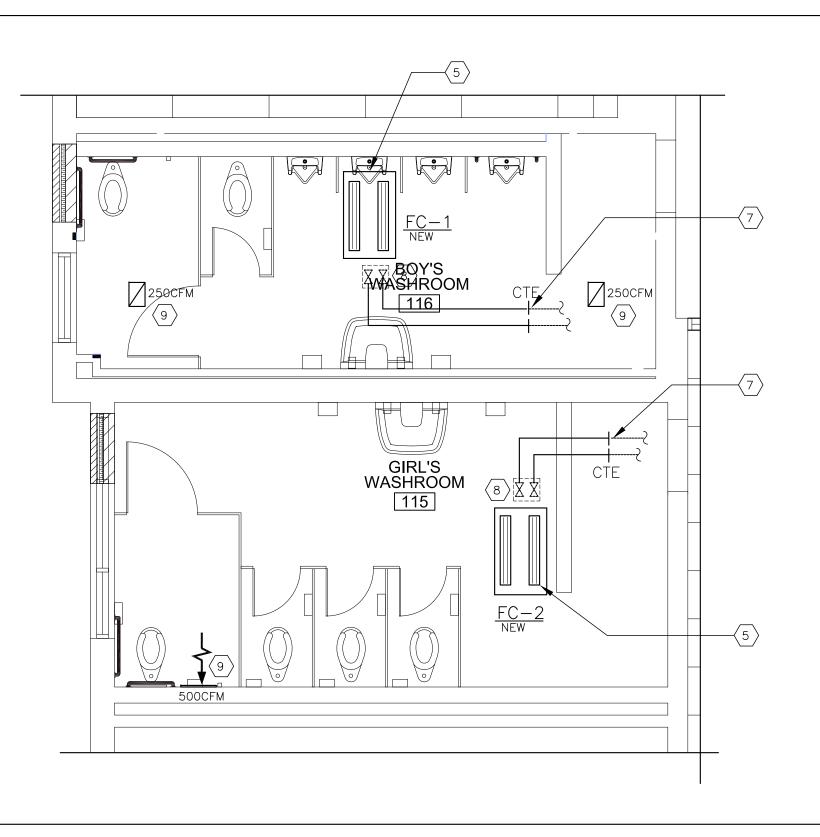
- INSTALLATION. TYPICAL

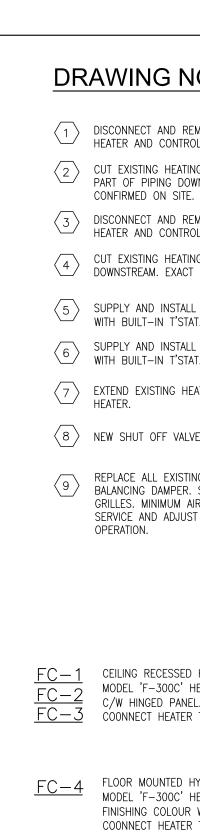




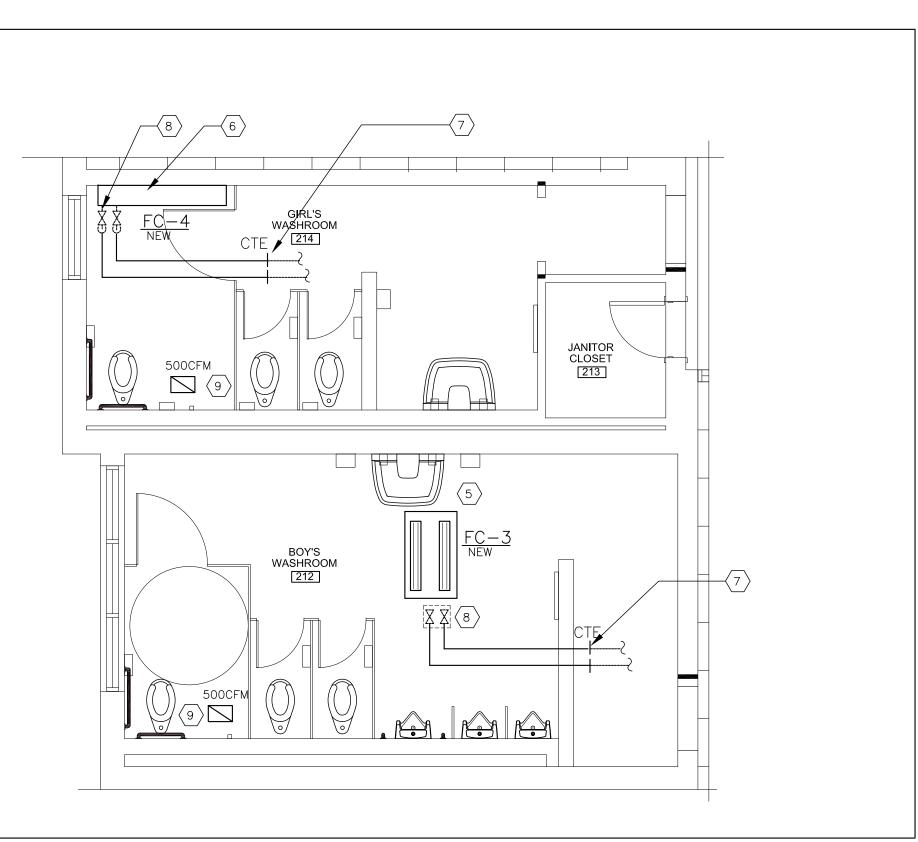






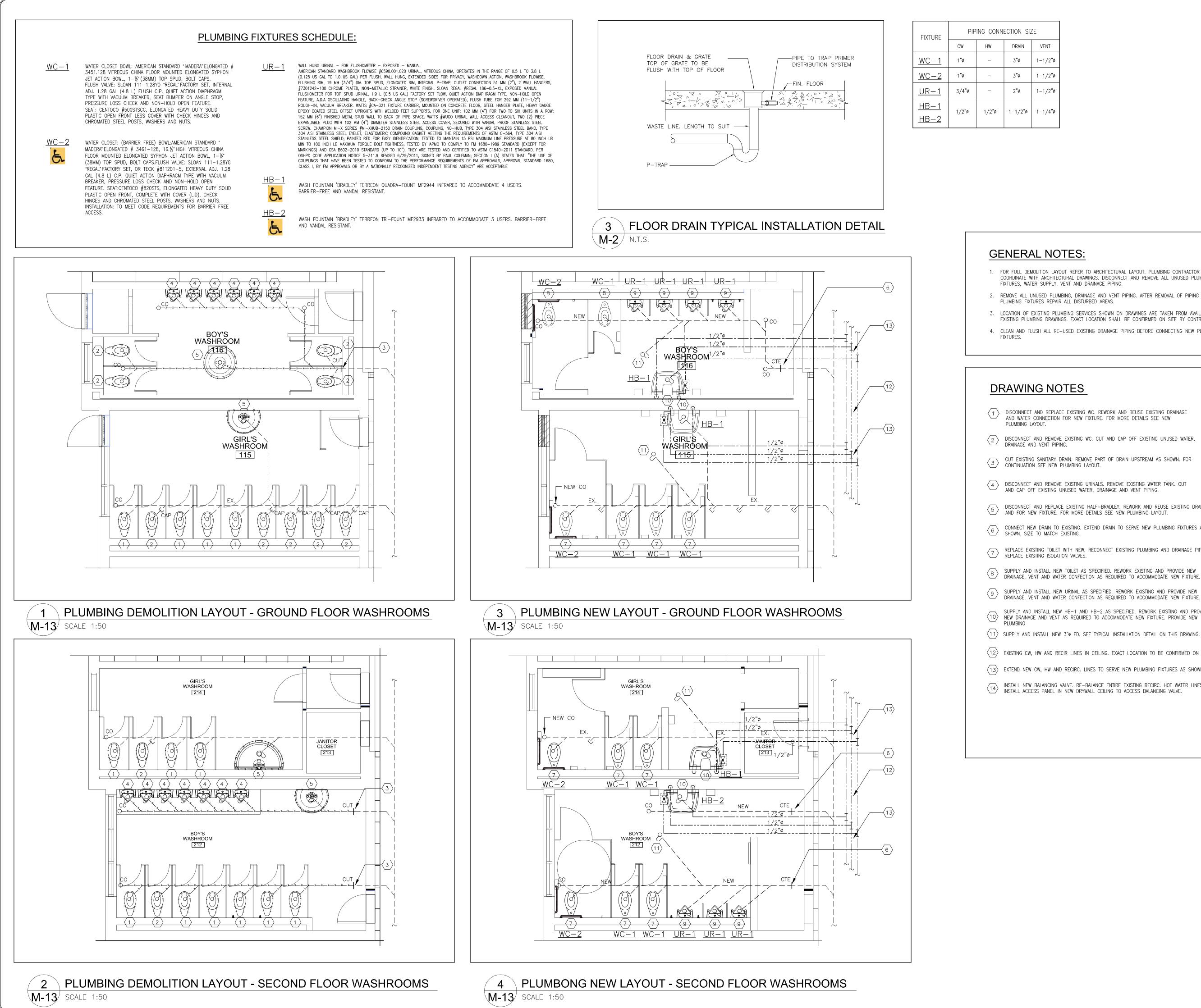


3 HVAC NEW LAYOUT - GROUND FLOOR WASHROOMS M-12 SCALE 1:50



4 HVAC NEW LAYOUT - SECOND FLOOR WASHROOMS M-12 SCALE 1:50

NOTES REMOVE EXISTING CEILING SUSPENDED HYDRONIC FORCE FLOW ROLS. TING SUPPLY AND RETURN PIPING IN CEILING SPACE. REMOVE OWNSTREAM. EXACT LOCATION OF EXISTING PIPING TO BE E. REMOVE EXISTING FLOOR MOUNTED HYDRONIC FORCE FLOW ROLS. TING SUPPLY AND RETURN PIPING. REMOVE PART OF PIPING CT LOCATION OF EXISTING PIPING TO BE CONFIRMED ON SITE.	Halton District School Board
LL NEW CEILING RECESSED HYDRONIC HEATER AND CONTROLS TAT. LL NEW FLOOR MOUNTED HYDRONIC HEATER AND CONTROLS TAT. HEATING SUPPLY AND RETURN TO SERVE NEW FORCE FLOW LVES. INSTALL NEW CEILING ACCESS PANEL. TING WASHROOM EXHAUST GRILLES WITH NEW GRILLE AND R. SIZE TO MATCH EXISTING. BALANCE EXISTING EXHAUST AIR FLOW FOR EACH GRILLE IS SHOWN ON DRAWING. IST EXISTING EXHAUST FAN AS NECESSARY FOR PROPER	2 FOR PERMIT / TENDER MAY 6, 2021 1 FOR COORDINATION APR 20, 2021
D HYDRONIC CABINET FORCE FLOW HEATER AND CONTROLS 'ROSEMEA' HEATING OUTPUT: 30.6 MBH, ENT 200T AND EAT 180°F, 300 CFM. RI TO BAS CONTROL. HYDRONIC CABINET FORCE FLOW HEATER AND CONTROLS 'ROSEMEA' HEATING OUTPUT: 30.6 MBH, ENT 200°F AND EAT 180°F, 300 CFM. R WHITE. 1159/1/60, 1.2A. R TO BAS CONTROL.	NO. ISSUANCES & REVISIONS DATE ISSUANCES MERCES AND RELATED DIATE ISSUANCES MERCES AND RELATED DIATE ISSUERCES AND RELATED DOCUMENTS IN PARTON DIATE ISSUENCES AND RELATED DOCUMENTS IN PARTON DIATE ISSUENCES AND RELATED DOCUMENTS IN PARTON DIATE ISSUENCES AND RELATED DOCUMENTS IN PARTON DIATE ISSUENCERNER DOCUMENTS IN PARTON DO THIS INANY DIATE
	Project Address : 1522 MOUNTAIN GROVE AVE. BURLINGTON, ONTARIO, L7R 2H2 Project Description : ROLLING MEADOWS PUBLIC SCHOOL RENOVATIONS Drawing Description : WASHROOMS HVAC LAYOUT Designed: N.P. Checked: Y.N. Scale: AS SHOWN Date: JAN 2021 PNF Project No. Dwg.No. March 12



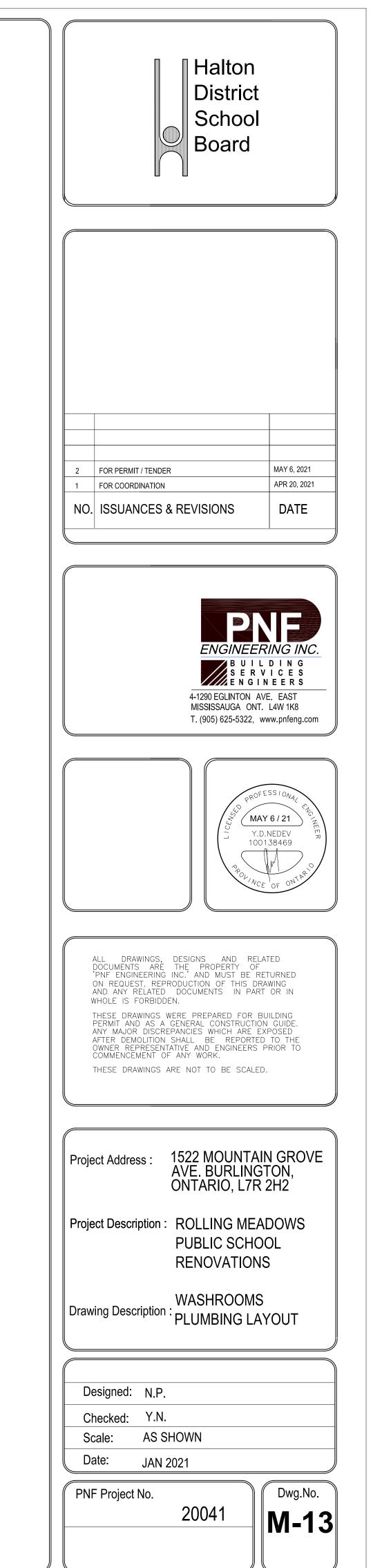
Έ
VENT
1-1/2"ø
1-1/2"ø
1-1/2"ø
1-1/4"ø

DRAIN

3"ø

3"ø

2"ø



GENERAL NOTES:

1. FOR FULL DEMOLITION LAYOUT REFER TO ARCHITECTURAL LAYOUT. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS. DISCONNECT AND REMOVE ALL UNUSED PLUMBING FIXTURES, WATER SUPPLY, VENT AND DRAINAGE PIPING. 2. REMOVE ALL UNUSED PLUMBING, DRAINAGE AND VENT PIPING. AFTER REMOVAL OF PIPING AND EXISTING PLUMBING FIXTURES REPAIR ALL DISTURBED AREAS. 3. LOCATION OF EXISTING PLUMBING SERVICES SHOWN ON DRAWINGS ARE TAKEN FROM AVAILABLE EXISTING PLUMBING DRAWINGS. EXACT LOCATION SHALL BE CONFIRMED ON SITE BY CONTRACTOR.

4. CLEAN AND FLUSH ALL RE-USED EXISTING DRAINAGE PIPING BEFORE CONNECTING NEW PLUMBING

DRAWING NOTES

PLUMBING

1 DISCONNECT AND REPLACE EXISTING WC. REWORK AND REUSE EXISTING DRAINAGE AND WATER CONNECTION FOR NEW FIXTURE. FOR MORE DETAILS SEE NEW

DISCONNECT AND REMOVE EXISTING WC. CUT AND CAP OFF EXISTING UNUSED WATER, DRAINAGE AND VENT PIPING.

CUT EXISTING SANITARY DRAIN. REMOVE FAIL CONTINUATION SEE NEW PLUMBING LAYOUT. CUT EXISTING SANITARY DRAIN. REMOVE PART OF DRAIN UPSTREAM AS SHOWN. FOR

 $\langle 4 \rangle$ disconnect and remove existing urinals. Remove existing water tank. Cut AND CAP OFF EXISTING UNUSED WATER, DRAINAGE AND VENT PIPING.

5 DISCONNECT AND REPLACE EXISTING HALF-DIVADELL, DEMONS (AND AND FOR NEW FIXTURE, FOR MORE DETAILS SEE NEW PLUMBING LAYOUT. DISCONNECT AND REPLACE EXISTING HALF-BRADLEY. REWORK AND REUSE EXISTING DRAINAGE

CONNECT NEW DRAIN TO EXISTING. EXTEND DRAIN TO SERVE NEW PLUMBING FIXTURES AS 6 SHOWN. SIZE TO MATCH EXISTING.

REPLACE EXISTING TOILET WITH NEW. RECONNECT EXISTING PLUMBING AND DRAINAGE PIPING.REPLACE EXISTING ISOLATION VALVES.

SUPPLY AND INSTALL NEW TOILET AS SPECIFIED. REWORK EXISTING AND PROVIDE NEW DRAINAGE, VENT AND WATER CONFECTION AS REQUIRED TO ACCOMMODATE NEW FIXTURE. 9 SUPPLY AND INSTALL NEW URINAL AS SPECIFIED. REWORK EXISTING AND PROVIDE NEW

SUPPLY AND INSTALL NEW HB-1 AND HB-2 AS SPECIFIED. REWORK EXISTING AND PROVIDE 10 NEW DRAINAGE AND VENT AS REQUIRED TO ACCOMMODATE NEW FIXTURE. PROVIDE NEW

 $\langle 11 \rangle$ SUPPLY AND INSTALL NEW 3" FD. SEE TYPICAL INSTALLATION DETAIL ON THIS DRAWING.

 $\langle 12 \rangle$ existing CW, HW and RECIR lines in Ceiling. Exact location to be confirmed on site.

 $\langle 13 \rangle$ EXTEND NEW CW, HW AND RECIRC. LINES TO SERVE NEW PLUMBING FIXTURES AS SHOWN.

14 INSTALL NEW BALANCING VALVE. RE-BALANCE ENTIRE EXISTING RECIRC. HOT WATER LINES. INSTALL ACCESS PANEL IN NEW DRYWALL CEILING TO ACCESS BALANCING VALVE.

									RO	OFT	OP EC	QUIP	PMEN ⁻	SCH	EDUL	E									
NIT No.	MANUFACTURER	MODEL No.	FLOW (CFM)	× AIR ESP (in. W.C.)	FAN (HP)	RETUR ELOW	RN/EXHAUST ESP (in. W.C.)	AIR FAN (HP)		CAPACIT OUTPU (MBH)			LING CAPA OTAL SENS MBH) (MB	·	HEAT RE	ER	IEAT PIPE) WINTER EFF.		TRICAL	OPERAT	XIMATELY NG WLIGHT (Ibs)	REMARKS			
U-1	ENGINEERED AIR	FWE285/DJS60	6,000	0.5	7.5HP	6,000	0.5	241	600	486	81	70 3	310 17) 11.6	58.6%		61.070		20 575/3/		0,000				
U-2 V-1	ENGINEERED AIR	FWE285/DJS60 FWE103/DJS60	6,000 4,500	0.5 0.5	7.5HP 5HP	6,000 4,500	0.5	5HP 3HP		486 405			310 17 133 7		58.6%		61.5% 62.1%	61.4 7 30.0 3	, ,		0,000 3,800				
V-2	ENGINEERED AIR	FWE73/DJS40	3,200	0.5	5HP	3,200	0.5	240	575	304	81	70	99 5	5 12.9	59.8%		63.0%	26.4 3	575/3/	50 8	3,100				
TES:	LIGHT, S/A TEM	E SUPPLIED WITH VARIA PERATURE SELECTOR, UNITS TO EXISTI <u>NG FI</u> E	CO ALARM ON	LIGHT, AND	DISCHARGE	AIR TEMPER	FI SERVICE R ATURE SENSC ATION	RECEPTAC OR.	CLE, ECONO	DMIZER, F	REMOTE CO	NTROL I	PANEL C/V	SYSTEM C	N/OFF, HE	EAT ON/OF	F, FAN ON	LIGHT, B	URNER ON						
	3. NEW UNIT SHAL 4. UNITS SHALL D	L BE CONTLUTED TO INSTALLED ON ROOF	BUILDING AUTOI	MATION SYSTE	EM (BAS)																				
					AIR FLOW	MINIMUM	ESP	Н	HOT WATER				PACKAGED		- C					.E					
UIPMENT TAG	AREA SERVED	MANUFA AND N		UIPMENT SCRIPTION	(CFM)	OUTSIDE AIR (CFM)	(IN.WC)	WS (GPM)	V EAT LAT I) (°F) (°F)	EWT LW (°F) (°F	TOTAL (MBH) (*	EAT DB WB F) (°F)	TOTALS (MBH)	ENS. MBH) E	ER (HP)	DR ELECT	RICAL MCA (A)	MOP (A)	WEIGHT (LBS)	CONTROLS		REMARKS			
7—1 TO 7—9	CLASSROOMS	'SOPHOMORI HPAIQ	E' CONTAI	AL SELF NED A/C ENTILATOR	800	400	0.25 2	2 5.0	28.8 88.6	180 16	0 55.7 8	30 67	24.0	16.3 1	1.1 1/2	2 208/3	/60 16.7	20	900	BAS	LINIT SH	HALL BE C/W ECONOMIZER, BACK PLENUM, 24"H			
-10		'SOPHOMORI		AL SELF	1.500	450															DISCHAR	RGE PLENUM (OPENING FOR DUCTWORK TO BE CONTRACTOR), AND WALL LOUVER.			
-11		HPAIQ	VENTIL													200/0									
<u>NOTES</u> : . UNITS 2. CONT	S SHALL BE CONNECTEN TROL CONTRACTOR SHAL	D AND CONTROLLED BY I SUPPLY: UNIT CONTR	' NEW BAS. ALL	CONTROL WIF	RING AND PA	ROGRAMMING OM TEMPERA	BY CONTROL TURE SENSOR	_ CONTRA	ACTOR AS I MONITORING	PER SEQU SENSOR	JENCE OF C MIXED AIR) PERATIO TEMPER	N OUTLINE RATURE SEN	IN WRITTEN SOR DISCH	SPECIFICAT	TION. TEMPERATI	RF SENSOR								
				BOILE																					
BOILER TAG	MANUFACTURER AND MODEL NO.	HEATING INTE (MBH)	HEATING O	υτρυτ Β	URNER ONTROL	POV V/Pł	VER					RFI	MARKS				-								
-IB-1	P-K 'THERMIFIC'	1,000	850		1/OFF				ROPER OP	ERATION, CONNECT	REPLACE E EXISTING	XISTING BAS CON	PRV, PRO'	IDE STARTU	IP AND]	-						F	PLUMBING LEGEND	
KISTING)	N-1000					120			BAS.						G PUMP, RE		-						SYMBOL		
IB-2 NEW)	P-K 'MODU-FIRE' N-1500	1,500	1,275	TURND	OULATING WI DOWN RATIO	E.1	//60 C/ PL DA CC	UMP SCH ONNECTE	HEDULE FO	R DETAILS	S, DRAIN TO BY NEW E	D NEARE BAS.	UT FLOOR	DRAIN. BOII	LER SHALL	BE								SHUT OFF VALVE	
OTE: BO	ILE, SHALL BE INSTAL	LED AS PER MANUFAC	TURERS INSTRU	JCTIONS AND	RECOMMEN	IDATIONS																		CIRCUIT BALANCING VALV	'E
				NEW	PUMF	P SCHE	EDULE																	CHECK VALVE	
PUMP TAG	SERVICE	AMUFACTURER AND MODEL NO.	CAP. HE USGPM F	EAD T. HP	MOTOR	′Ph/Hz ⁽¹⁾	_			REM	IARKS												&	PRESSURE RELIEF VALVE	
P - 1	PRIMARY LOOP PUMP	ARMSTRONG SERIES 4380	220			230/1/60	VERTICAL	INLINE F	PUMP															3-WAY MOTORIZED MIXIN 2-WAY MOTORIZED CONT	
P-2 AND-BY)	PRIMARY LOOP PUMP	ARMSTRONG SERIES 4380	220 2	20 2	1800	230/1/60	VERTICAL	INLINE F	PUMP															STRAINER	
P-3	HEATING PUMP	ARMSTRONG SERIES 4380	150 7	70 5	3400	575/3/60	VERTICAL	INLINE F	PUMP C/W	VFD, SE	NSORLESS												FS	TEMPERATURE SENSOR	
P-4 AND-BY)	HEATING PUMP	ARMSTRONG SERIES 4300	150	0 5	3400 5	575/3/60	VERTICAL	INLINE F	PUMP C/W	VED. SE	NSORLESS												AS I	AQUASTAT	
BP-1	BOILER PUMP		125		2	230/1/60	PUMP SEL	LECTION	BY BOILER	R MANUFA	ACTURER												 	LOW WATER CUTOFF	
BP-2 (EX)	BOW TH PUMP		85		2	230/1/60	EXISTING	TO REMA	AIN															THERMOMETER	
							·																——————————————————————————————————————	EXISTING PIPING/EQUIPME	NT TO BE REMOV
	USER, GRILLE AND EDULE	REGISTER	TYPE			R VOLUME FM) ZE (INCHES)																			
YDF I	DDEL # DESCRIPT		<u>=</u>	REMA	ARKS																		G DCW	GAS LINE DENOTES DOMESTIC COLD	
E.H	H. PRICE' OR APPL	DAMPER	2	IRE RATED ST																			DHW	DENOTES DOMESTIC HOT HEATING WATER SUPPLY	WATER
A' SE	ERIES SQUIRE CON	NE DIFFUSER YES	FUSIBLE LI	INK AND ADJU	JSTABLE VOL	LUME DAMPE	R																HWR	HEATINHG WATER RETUN	
s' SE 52	ERIES 20D SUPPLY AIR	YES		UBLE DEFLEC OSED BLADE		MPER																			
C' SE	ERIES 20D	YES	STEEL DOI VOLUME D	UBLE DEFLECT DAMPER AND S	TION C/W C SPIRAL CUC	POSED BLA T FRAME	DE																		
	ERIES 20 SUPPLY AIR	Orther YES	HEAVY DU		TEEL DOUBLI VOLUME DAM	E DEFLECTIO MPER	N																		
	50/50	AUDITORIUM	C/W OPPO	TY GRILLE, ST	TEEL DOUBLI VOLUME DAM	E DEFLECTIO MPER AND	N																		1. PRIOR 2. CONTRA NEW W
				JCT FRAME			_																		3. DRAIN
	80 RETURN AIR			FACE RETURN			_																		4. PRESSU FROM I 5. MAKE (
E1' SE 90		GYM –	HEAVY DU	TY GRILLE, ST	TEE DOUBLI	E DEFLECTIO	N																		6. REMOVE
TR' ST	ERIES TRANSFER A	AIR –	HEAVY DU	TY TRANSFER	GRILLE, STE	EEL																			7. PROVIDE AS REG 8. CONTRA
																									NEW E

		
		LEGEND
	SYMBOL	DESCRIPTION
		DOUBLE OR SINGLE LINE DUCTWORK
	\boxtimes	SUPPLY AIR DUCT UP
	\square	SUPPLY AIR DUCT DOWN
		RETURN/EXHAUST AIR DUCT UP
		RETURN/EXHAUST AIR DUCT DOWN.
	•	ROUND DUCT UP
	\bigcirc	ROUND DUCT DOWN
	*****	THERMALLY LINED DUCTWORK
	2/-/-2	EXISTING DUCTWORK TO BE REMOVED
		FLEXIBLE DUCT CONNECTION
		FLEXIBLE DUCT
		UNDERCUT 3/4"
	V/D 	VOLUME DAMPER
	B/D	BACKDRAFT DAMPER
	F/D	FIRE DAMPER
	F.S/D	FIRE/SMOKE DAMPER
		THERMOSTAT
	G	THERMOSTAT WITH COVER GUARD AND LOCK
	S/D	SMOKE DETECTOR
	T	TEMPERATURE SENSOR
		DIFFUSER SYMBOL
	S/A	SUPPLY AIR
	R/A	RETURN AIR
	E/A	EXHAUST AIR
	O/A	OUTSIDE AIR
	G	GAS LINE
	AFF	ABOVE FINISH FLOOR
	C/W	COMPLETE WITH
	W/	WITH
	Ν	NEW
	EX.	EXISTING TO REMAIN
Ξ	CTE	CONNECT TO EXISTING
	TYPE cfm SIZE (in)	DIFFUSER/GRILLE SYMBOL
	<u> </u>	EXISTING TO BE REMOVED
	22	EXISTING TO REMAIN
	٤	NEW WORK
	22	CONTROL WIRE

D BE REMOVED

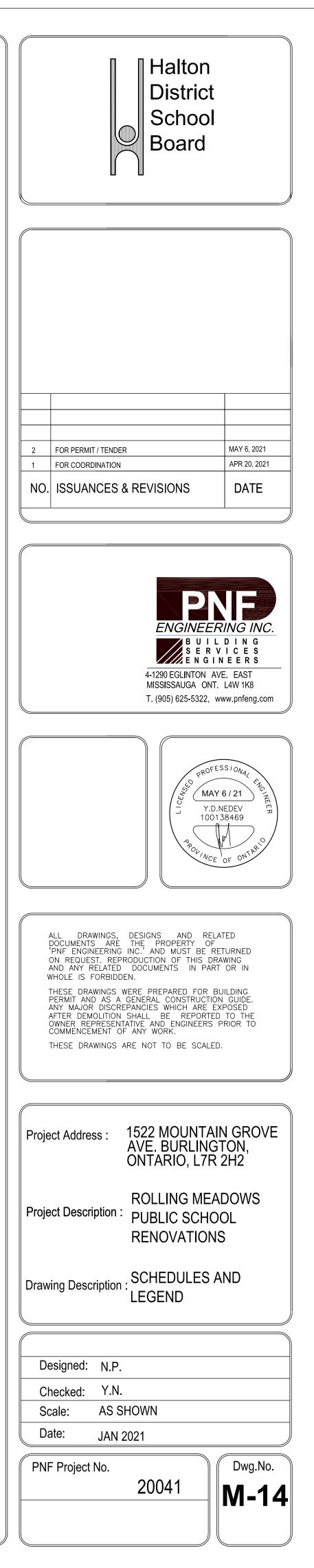
	ABBREVIATIONS
ABB.	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
 CBV	CIRCUIT BALANCING VALVE
 CTE	CONNECT TO EXISTING
VFD	VARIABLE FREQUENCY DRIVE
 TYP	TYPICAL
 FC	FLEXIBLE CONNECTION
 N.I.C.	NOT IN CONTRACT

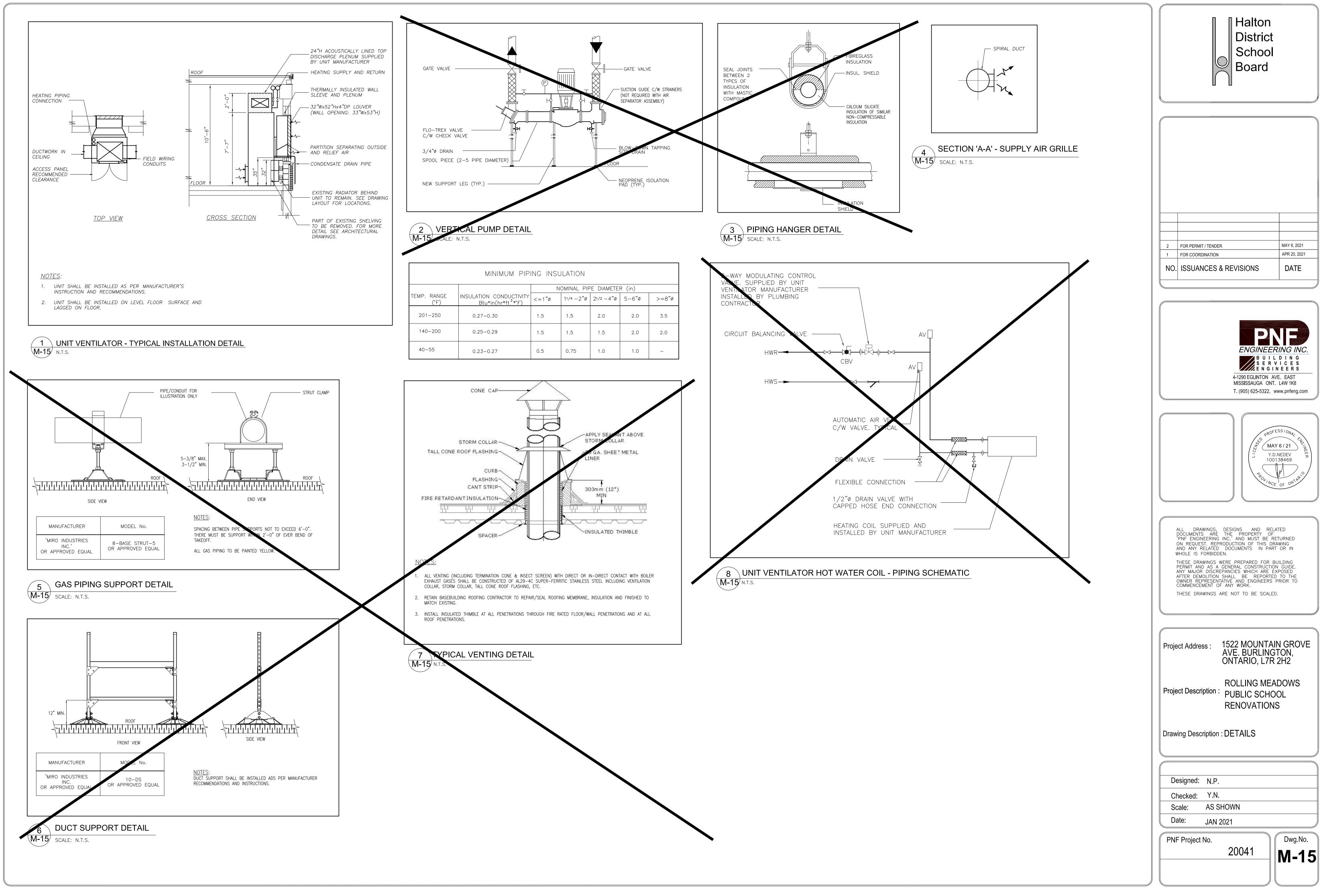
GENERAL NOTES:

- 1. PRIOR TO DEMOLITION ASBESTOS TO BE REMOVED BY LICENCE ASBESTOS CONTRACTOR, IF ANY.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING AND DUCTWORK ON SITE PRIOR TO STARTING NEW WORK.
- 3. DRAIN ALL AFFECTED SYSTEMS AND REFILL AFTER WORK IS DONE.
- 4. PRESSURE TEST, FLUSH, CLEAN AND REFILL SYSTEM AFTER WORK IS DONE. PURGE ALL AIR FROM HEATING SYSTEM.
- 5. MAKE GOOD ALL SURFACES AFTER COMLETION OF WORK. 6. REMOVE ALL DEBRIS AND RUBBISH FROM SITE DAILY.
- 7. PROVIDE THERMAL INSULATION OF NEW PIPING. REPAIR DAMAGED INSULATION OF EXISTING PIPING AS REQUIRED.
- 8. CONTRACTOR TO ALLOW FOR RELOCATION OF EXISTING SERVICES AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT.

INSTALLATION NOTE:

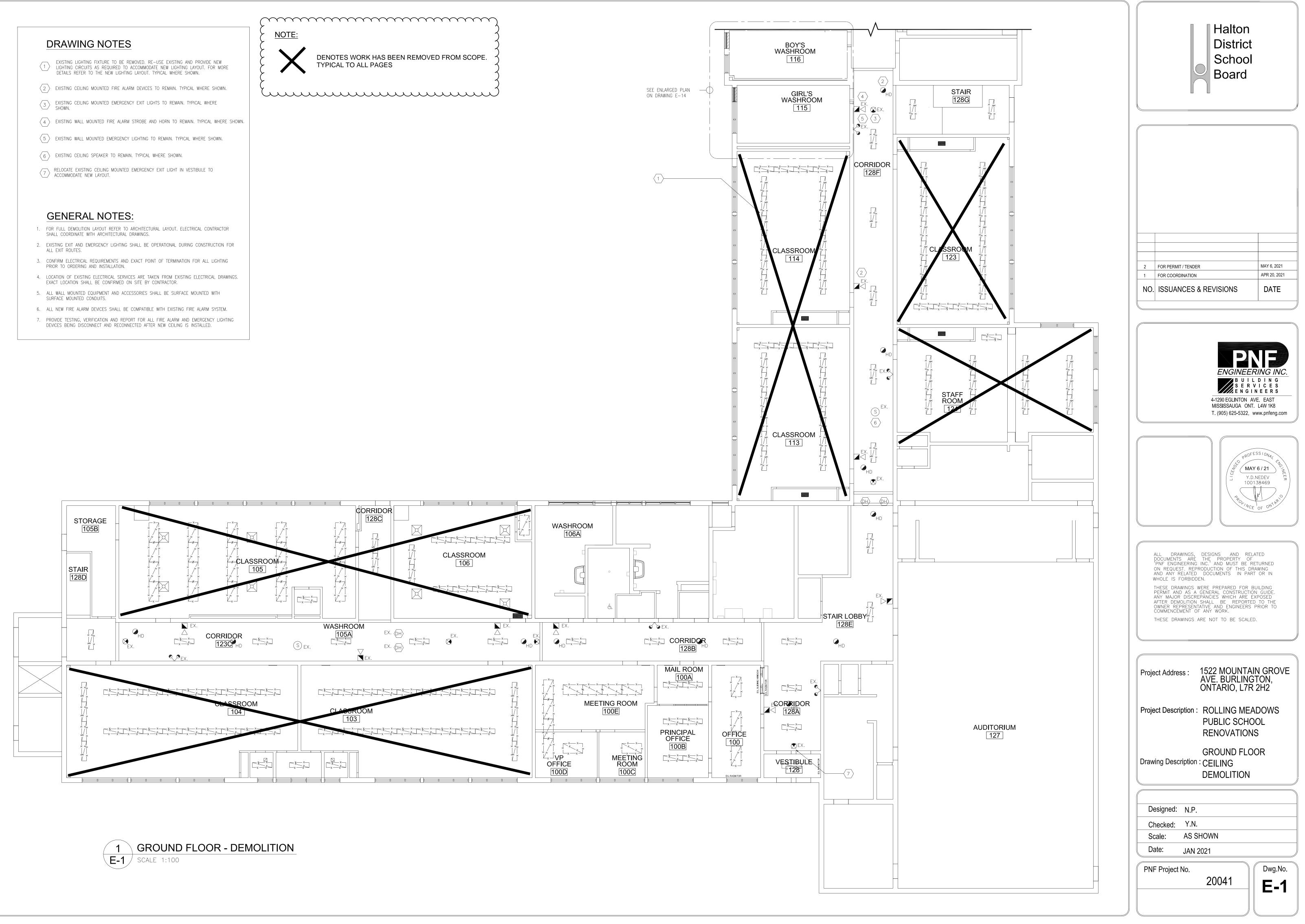
DESIGN DRAWINGS ARE PREPARED BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND GENERAL SITE REVIEW OF EXISTING INSTALLATION. CONTRACTOR SHALL CONFIRM ALL INFORMATION ON SITE AND MAKE NECESSARY ADJUSTMENTS TO SUIT SITE CONDITIONS.





- DEVICES BEING DISCONNECT AND RECONNECTED AFTER NEW CEILING IS INSTALLED.

TYPICAL TO ALL PAGES



DRAWING NOTES

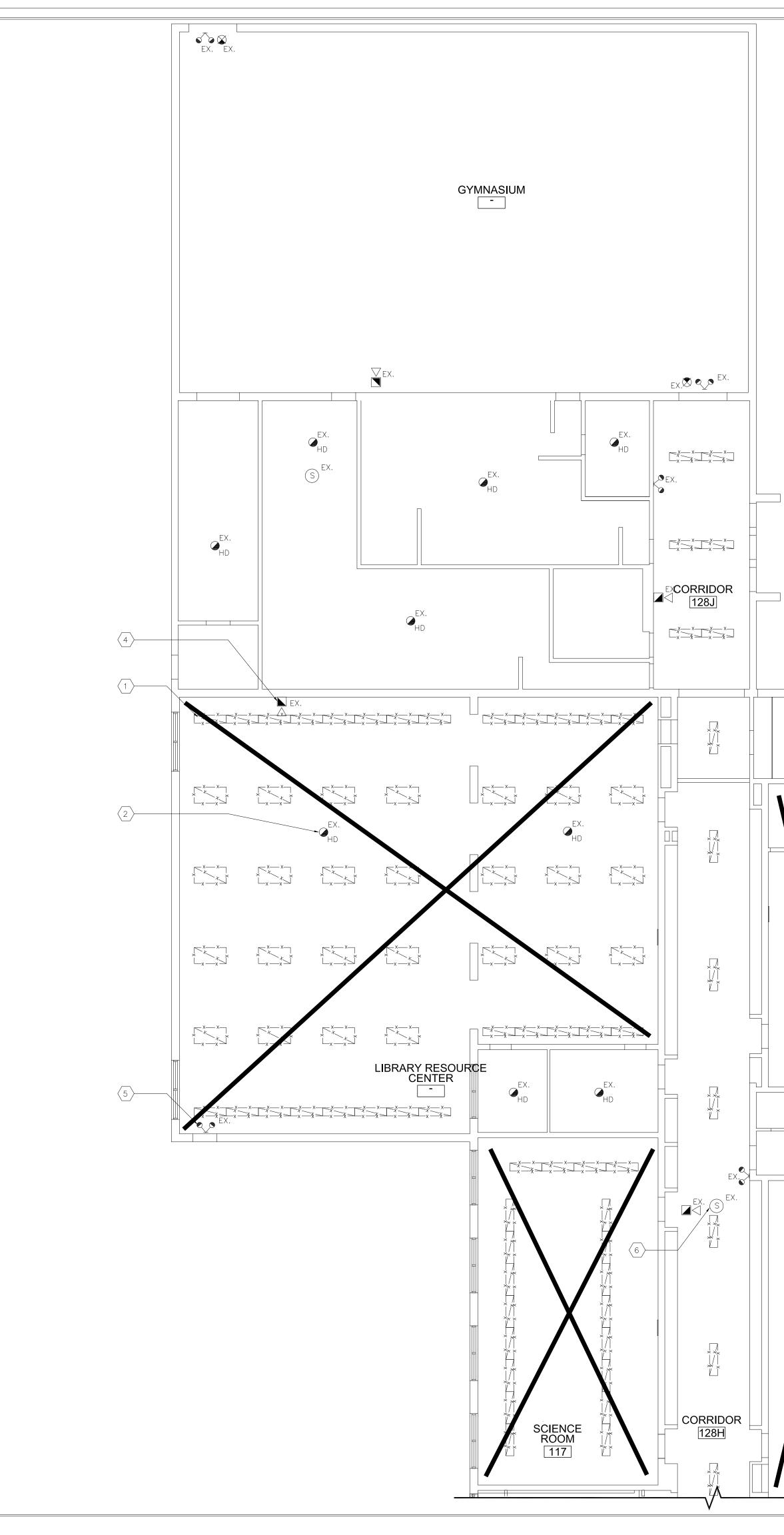
1 EXISTING LIGHTING FIXTURE TO BE REMOVED. RE-USE EXISTING AND PROVIDE NEW LIGHTING CIRCUITS AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT. FOR MORE DETAILS REFER TO THE NEW LIGHTING LAYOUT. TYPICAL WHERE SHOWN.

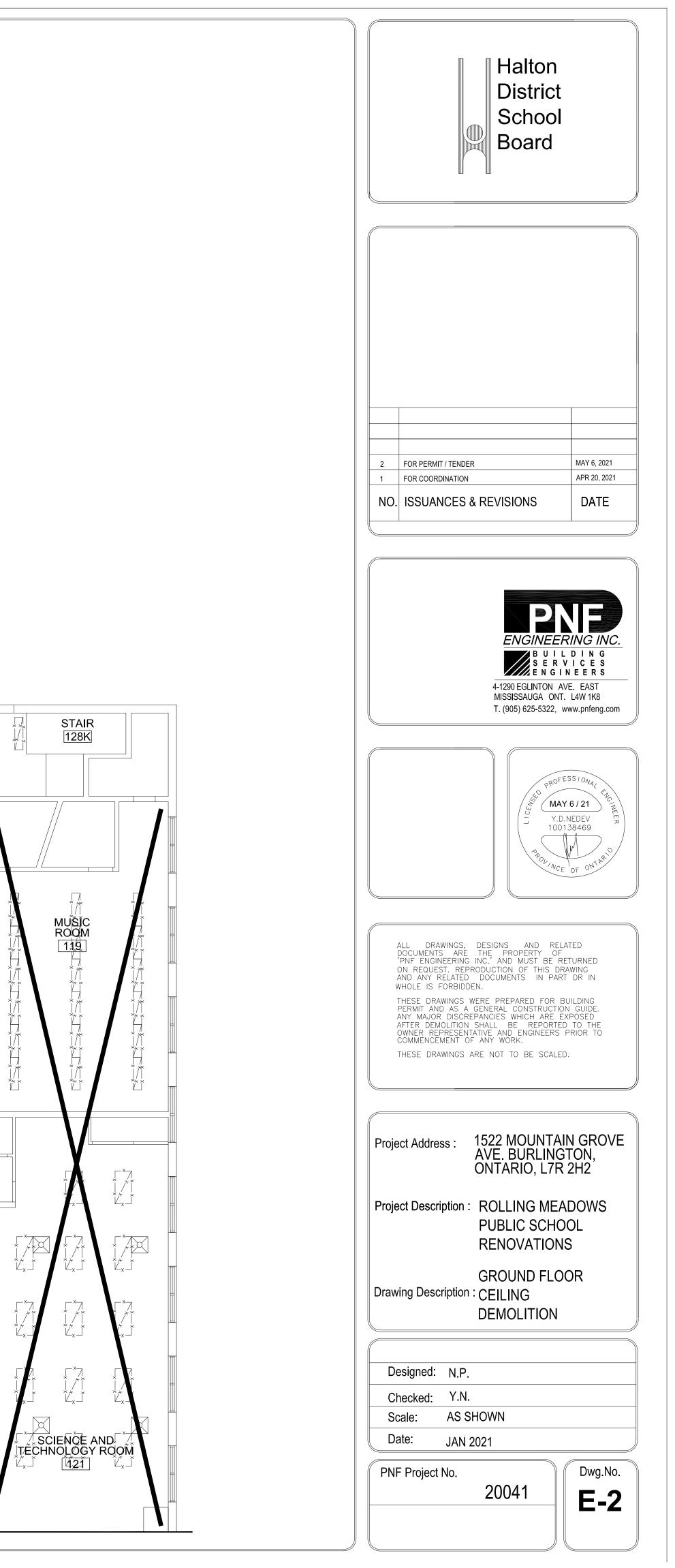
- $\langle 2 \rangle$ existing ceiling mounted fire alarm devices to remain. Typical where shown.
- $\fbox{3}$ EXISTING CEILING MOUNTED EMERGENCY EXIT LIGHTS TO REMAIN. TYPICAL WHERE SHOWN.
- $\left< rac{4}{4} \right>$ existing wall mounted fire alarm strobe and horn to remain. Typical where shown.
- $\left< 5 \right>$ EXISTING WALL MOUNTED EMERGENCY LIGHTING TO REMAIN. TYPICAL WHERE SHOWN.
- $\overline{(6)}$ EXISTING CEILING SPEAKER TO REMAIN. TYPICAL WHERE SHOWN.

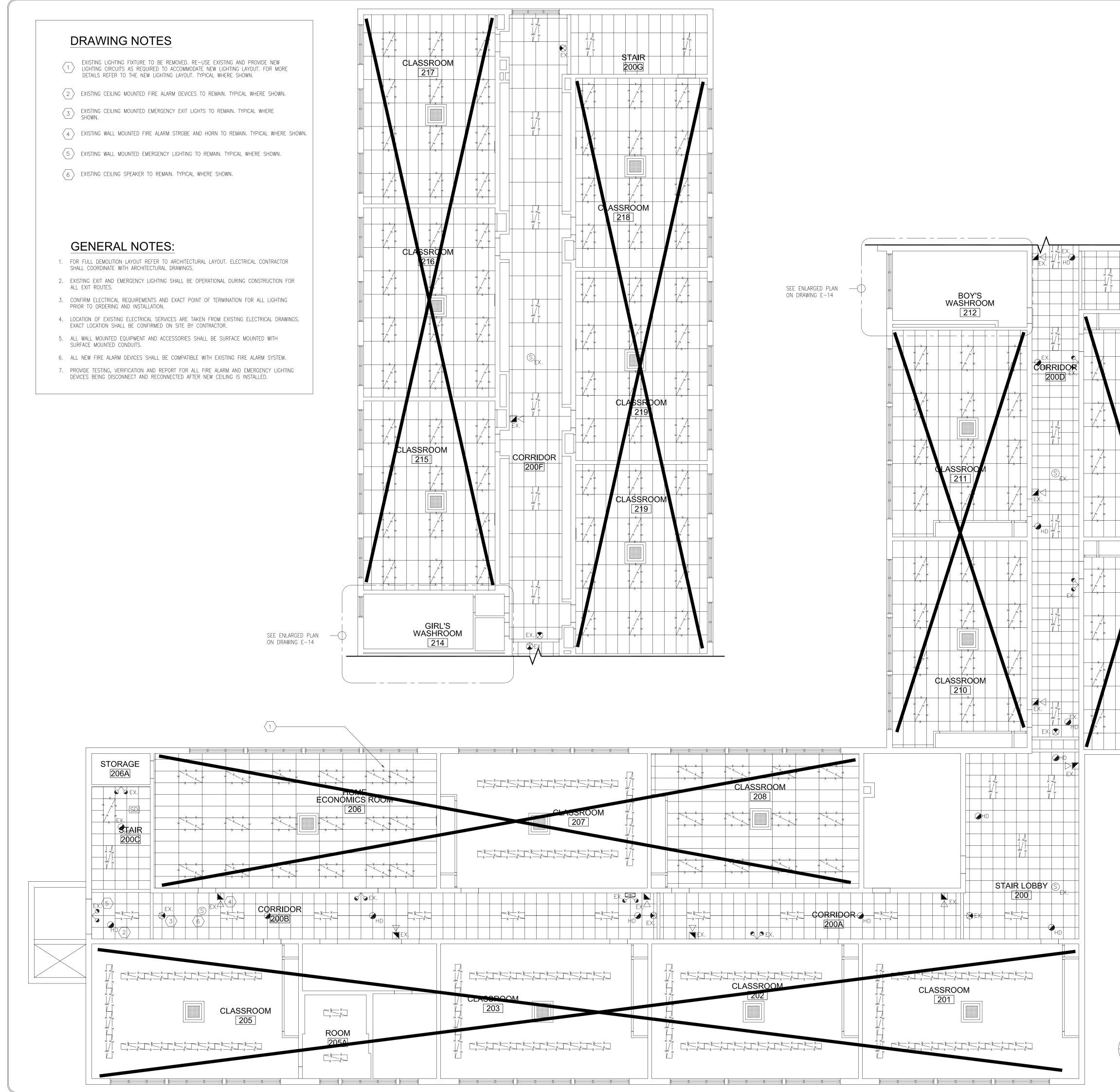
GENERAL NOTES:

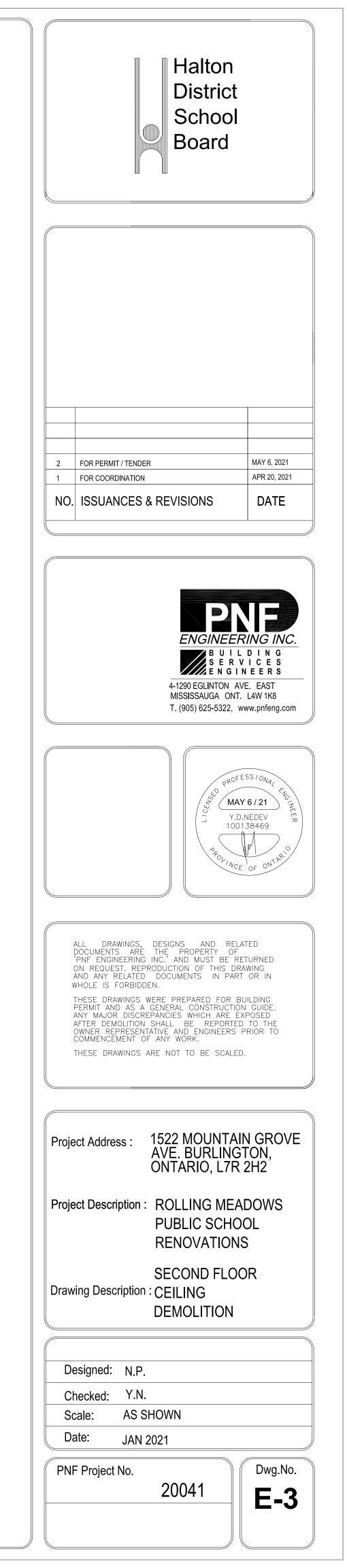
- FOR FULL DEMOLITION LAYOUT REFER TO ARCHITECTURAL LAYOUT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 2. EXISTING EXIT AND EMERGENCY LIGHTING SHALL BE OPERATIONAL DURING CONSTRUCTION FOR ALL EXIT ROUTES.
- CONFIRM ELECTRICAL REQUIREMENTS AND EXACT POINT OF TERMINATION FOR ALL LIGHTING PRIOR TO ORDERING AND INSTALLATION.
- 4. LOCATION OF EXISTING ELECTRICAL SERVICES ARE TAKEN FROM EXISTING ELECTRICAL DRAWINGS. EXACT LOCATION SHALL BE CONFIRMED ON SITE BY CONTRACTOR.
- ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES SHALL BE SURFACE MOUNTED WITH SURFACE MOUNTED CONDUITS.
- 6. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
- 7. PROVIDE TESTING, VERIFICATION AND REPORT FOR ALL FIRE ALARM AND EMERGENCY LIGHTING DEVICES BEING DISCONNECT AND RECONNECTED AFTER NEW CEILING IS INSTALLED.

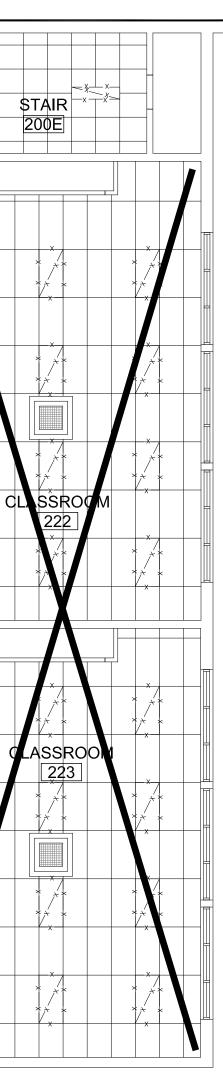






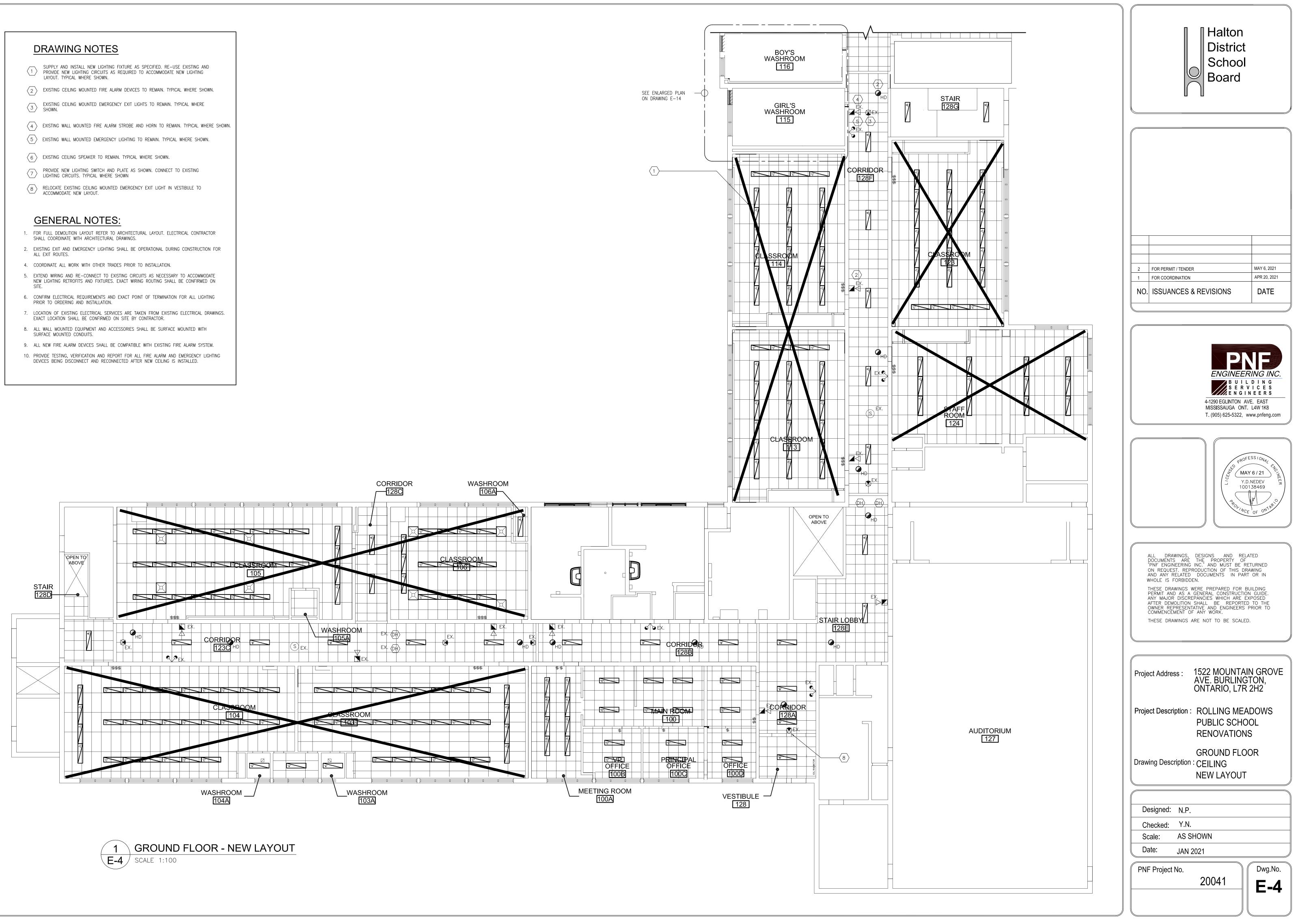








- DEVICES BEING DISCONNECT AND RECONNECTED AFTER NEW CEILING IS INSTALLED.



DRAWING NOTES

1 SUPPLY AND INSTALL NEW LIGHTING FIXTURE AS SPECIFIED. RE-USE EXISTING AND PROVIDE NEW LIGHTING CIRCUITS AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT. TYPICAL WHERE SHOWN.

 $\langle 2 \rangle$ EXISTING CEILING MOUNTED FIRE ALARM DEVICES TO REMAIN. TYPICAL WHERE SHOWN.

 $\langle 3 \rangle$ EXISTING CEILING MOUNTED EMERGENCY EXIT LIGHTS TO REMAIN. TYPICAL WHERE SHOWN.

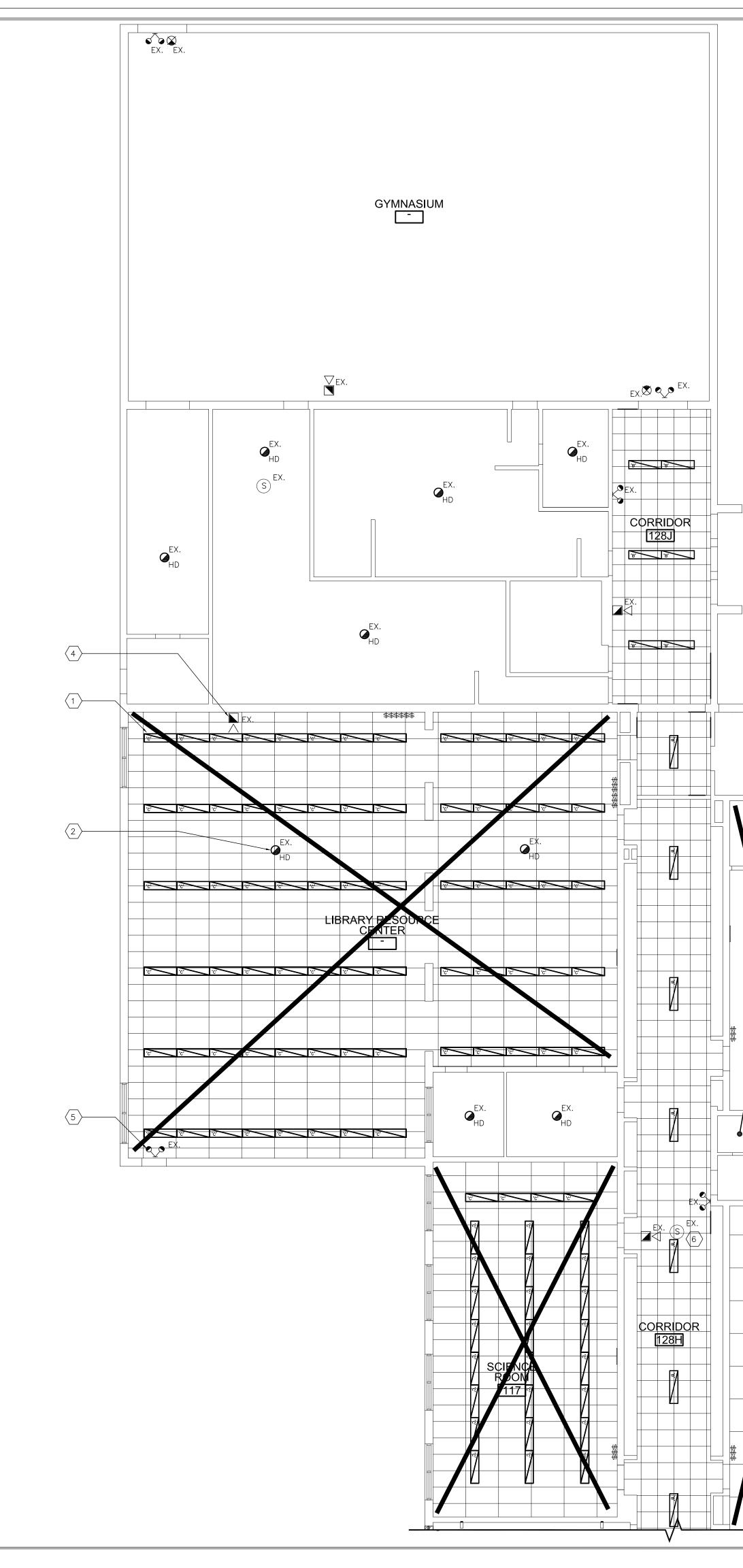
 $\langle 4 \rangle$ existing wall mounted fire alarm strobe and horn to remain. Typical where shown.

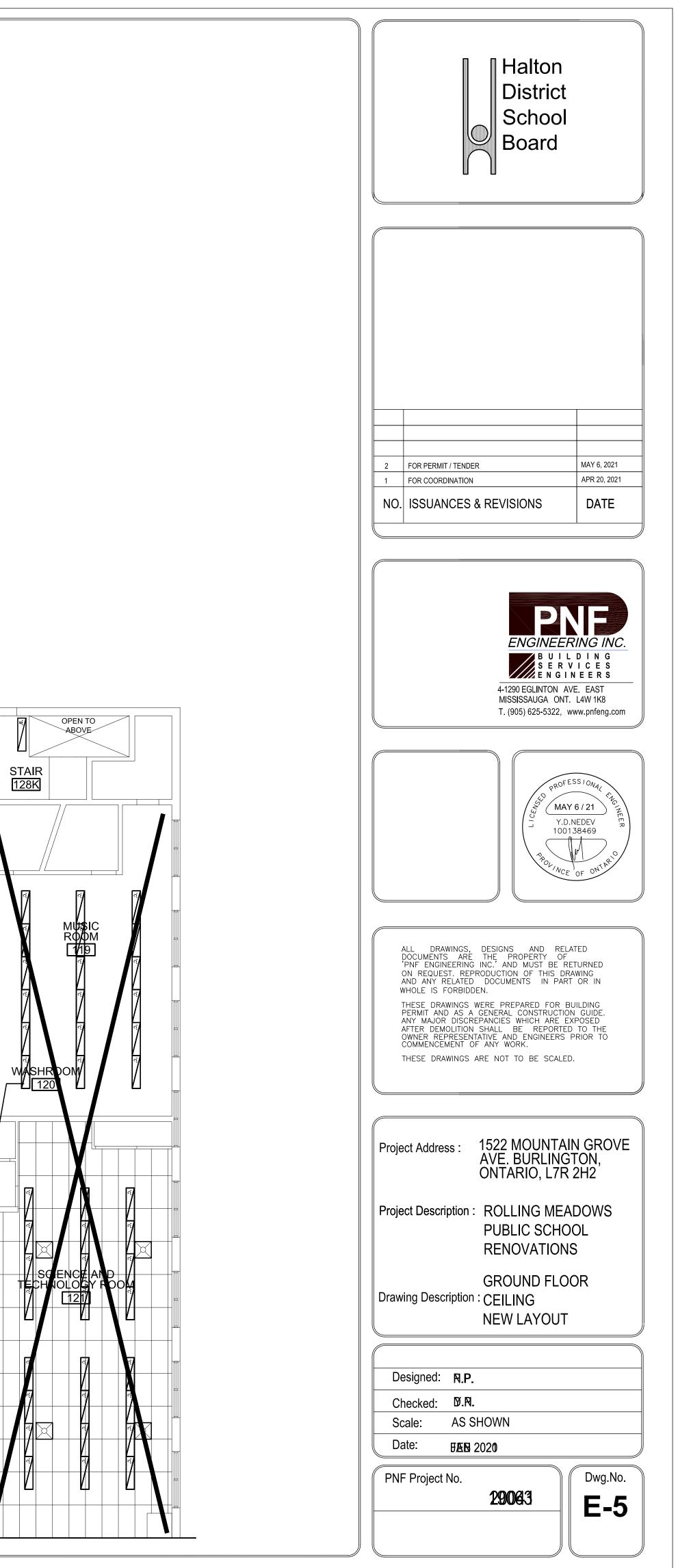
- $\left< 5 \right>$ Existing wall mounted emergency lighting to remain. Typical where shown.
- $\langle 6 \rangle$ EXISTING CEILING SPEAKER TO REMAIN. TYPICAL WHERE SHOWN.
- $\fbox{7}$ provide New Lighting switch and plate as shown. Connect to existing Lighting circuits. Typical where shown

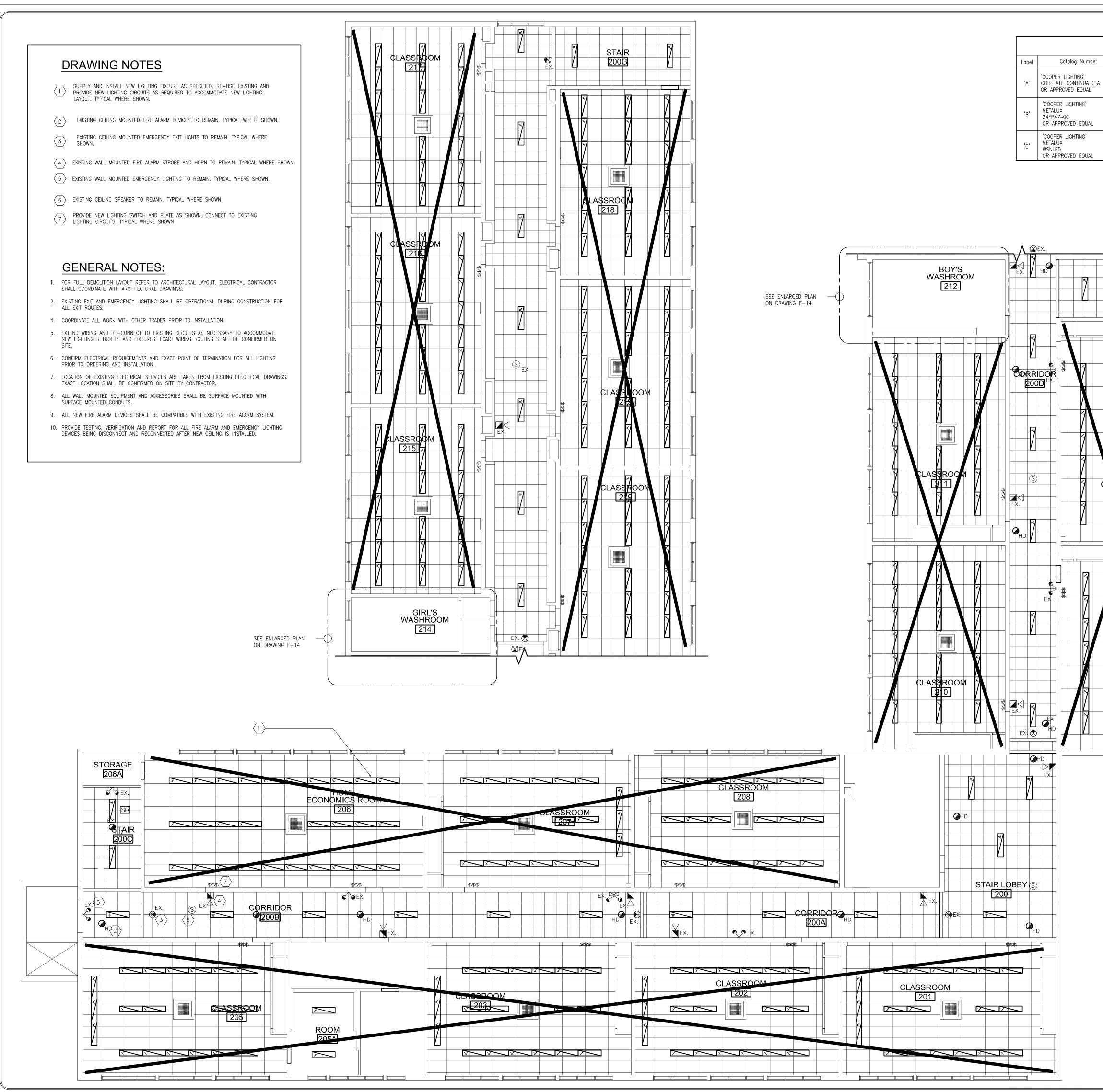
GENERAL NOTES:

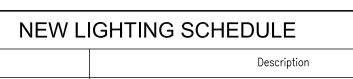
- 1. FOR FULL DEMOLITION LAYOUT REFER TO ARCHITECTURAL LAYOUT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 2. EXISTING EXIT AND EMERGENCY LIGHTING SHALL BE OPERATIONAL DURING CONSTRUCTION FOR ALL EXIT ROUTES.
- 4. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- EXTEND WIRING AND RE-CONNECT TO EXISTING CIRCUITS AS NECESSARY TO ACCOMMODATE NEW LIGHTING RETROFITS AND FIXTURES. EXACT WIRING ROUTING SHALL BE CONFIRMED ON SITE.
- 6. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT POINT OF TERMINATION FOR ALL LIGHTING PRIOR TO ORDERING AND INSTALLATION.
- 7. LOCATION OF EXISTING ELECTRICAL SERVICES ARE TAKEN FROM EXISTING ELECTRICAL DRAWINGS. EXACT LOCATION SHALL BE CONFIRMED ON SITE BY CONTRACTOR.
- ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES SHALL BE SURFACE MOUNTED WITH SURFACE MOUNTED CONDUITS.
- 9. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
- 10. PROVIDE TESTING, VERIFICATION AND REPORT FOR ALL FIRE ALARM AND EMERGENCY LIGHTING DEVICES BEING DISCONNECT AND RECONNECTED AFTER NEW CEILING IS INSTALLED.







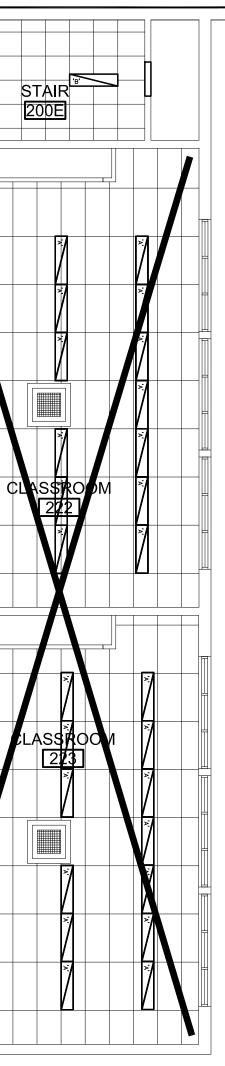




LED LUMINAIRE 1'X4' 4000K 120V INPUT SUSPENDED MOUNTED DISTRIBUTION: 75% UP / 25% DOWN SPLIT INSTALLED AT 16" BELOW CEILING HEIGHT

VOLUMETRIC LED LUMINAIRE 1'X4' 4000K 120V INPUT RECESS MOUNTED

PREMIUM WRAPAROUND LED LUMINAIRE 1'X4' 4000K 120V INPUT SURFACE MOUNTED



	ENGINEERING INC. B UILDING S ERVICES ENGINEERS 4-1290 EGLINTON AVE. EAST MISSISSAUGA ONT. L4W 1K8 T. (905) 625-5322, www.pnfeng.com
	PROFESSIONAL MAY 6/21 T.D.NEDEV TOUNTARY NOLINE OF ONTARY
	ALL DRAWINGS, DESIGNS AND RELATED DOCUMENTS ARE THE PROPERTY OF 'PNF ENGINEERING INC.' AND MUST BE RETURNED ON REQUEST. REPRODUCTION OF THIS DRAWING AND ANY RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN. THESE DRAWINGS WERE PREPARED FOR BUILDING PERMIT AND AS A GENERAL CONSTRUCTION GUIDE. ANY MAJOR DISCREPANCIES WHICH ARE EXPOSED AFTER DEMOLITION SHALL BE REPORTED TO THE OWNER REPRESENTATIVE AND ENGINEERS PRIOR TO COMMENCEMENT OF ANY WORK. THESE DRAWINGS ARE NOT TO BE SCALED.
P	roject Address : 1522 MOUNTAIN GROVE AVE. BURLINGTON, ONTARIO, L7R 2H2
P	roject Description : ROLLING MEADOWS PUBLIC SCHOOL RENOVATIONS
Di	SECOND FLOOR rawing Description : CEILING NEW LAYOUT
	Designed to the
	Designed: N.P. Checked: Y.N.
	Checked: Y.N. Scale: AS SHOWN
	Date: JAN 2021
	PNF Project No. 20041 Dwg.No. E-6

Halton

District

School

Board

MAY 6, 2021

APR 20, 2021

DATE

Y

2 FOR PERMIT / TENDER

1

FOR COORDINATION

NO. ISSUANCES & REVISIONS

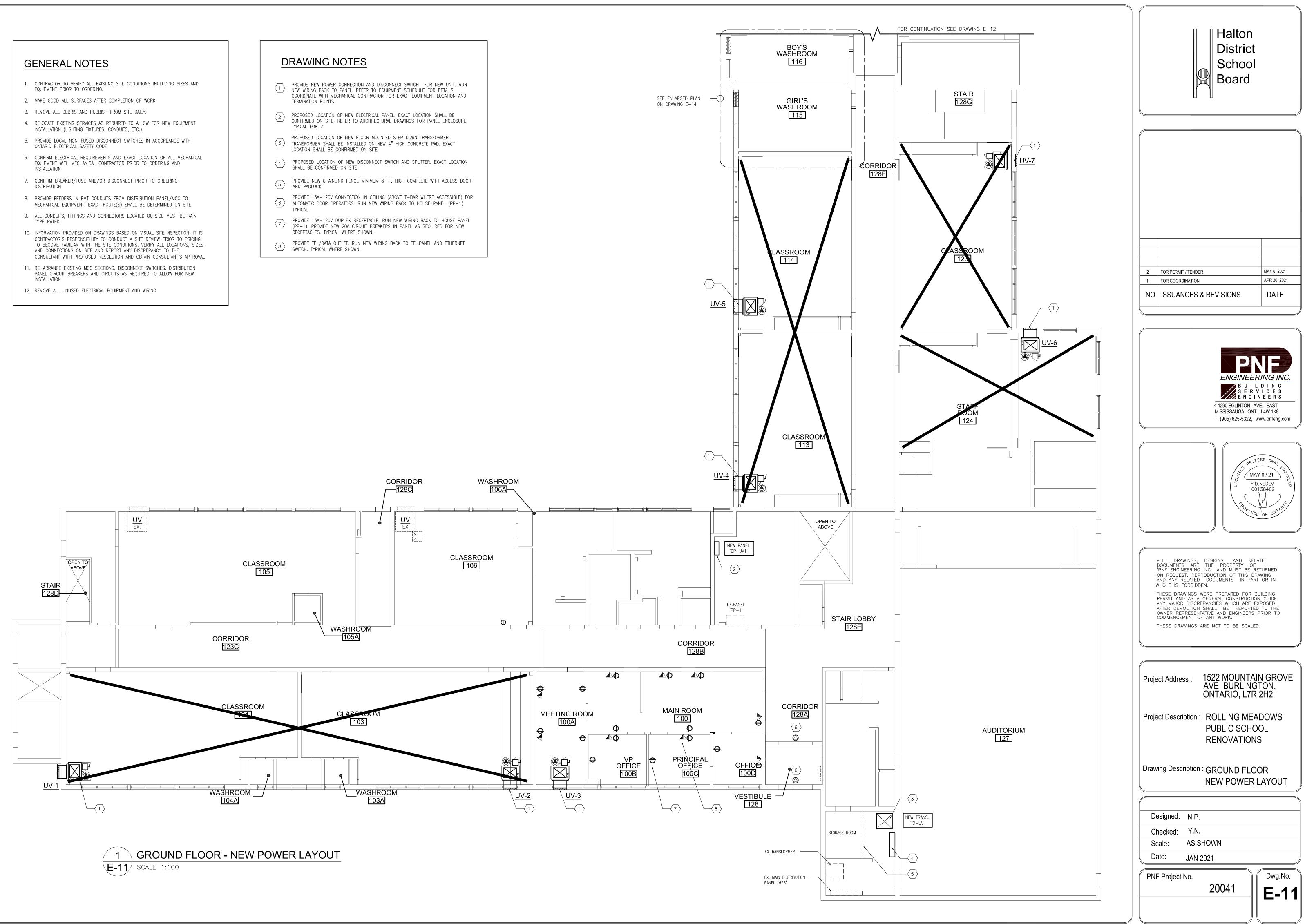


- ONTARIO ELECTRICAL SAFETY CODE
- EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION

- AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE
- PANEL CIRCUIT BREAKERS AND CIRCUITS AS REQUIRED TO ALLOW FOR NEW INSTALLATION

- TERMINATION POINTS.
- TYPICAL FOR 2
- LOCATION SHALL BE CONFIRMED ON SITE.

- RECEPTACLES. TYPICAL WHERE SHOWN.



				1	ME	CHAN	ICAL EQUIF	PMENT	SCHE	DULE	1
TAG	DESCRIPTION	LOCATION	HP	MCA (A)	VOLTS	PHASE	FEED FROM	MOP (A)	POLES	CONDUCTOR SIZE	CONDUIT SIZE
AHU-T	AHU	ROOF	-	61.4	575	3	MAIN ELECTRICAL ROOM	70	3	4#4	2"
AHU-2	AHU	THORE -	_	61.4	575	3	MAIN ELECTRICAL ROOM	70	,	4#4	2"
ERV-1	ERV	ROOF	-	30.0	575	3	MAIN ELECTRICHE	35	3	4#10	1"
ERV-2	ERV	ROOF	_	26.4	575	3	MAIN_ELECTRICAL ROOM	30	3	4#10	1"
UV-1	UNIT VENTILATOR	LADSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	7	4#12	3/4"
UVa	Unit VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	4#12	
UV-3	UNIT VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	4#12	3/4"
UV-4	UNIT VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	4#12	3/4"
UV-5	UNIT VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	4#12	5/4"
UV-6	UNIT VENTILATES	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	17 12	3/4"
UV-7	UNIT VENTILATOR	CLASCROOM	1/2	16.7	208	3	PANEL 'UV-1'	20	3	4#12	3/4"
UV-8	UNIT VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'UV-2'	20	3	4#12	3/4"
UV-9	UNIT VENTILATOR	CLASSROOM	1/2	16.7	208	3	PANEL 'HT-2'	20	3	4#12	3/4"
UV-10	UNIT VENTILATOR	CLASSROOM	3/4	28.0	208	3	PANEL 'UV-2'	40	3	4#8	1-1/2"
UV-11	UNIT VENTILATOR	CLASSROOM	3/4	28.0	20		PANEL 'UV-2'	40	3	4#8	1-1/2"
HB-2	BOILER	BOILER ROOM	-	U	120	1	NOUSE PANEL IN BOILER ROOM	20	1	2#12	3/4"
P-1	PRIMARY LOOP PUMP	BOILER ROOM	2	-	230	1	HOUSE PANEL T BOILER ROOM	20	2	2#12	3/4"
P-2 STAND-BY)	PRIMARY LOOP PUMP	BOILER	2	-	230	1	HOUSE PANEL IN BOILER ROOM	20	2	2#12	3/4"
P-3	HEATING PUMP	BOILER ROOM	5	-	575	3	ELECTRICAL ROOM	15	3	3#12	3/4"
P-4 STAND-BY)	HEATING PUMP	BOILER ROOM	5	-	575	3	ELECTRICAL ROOM	15	3	3#12	3/4"
1-2-1	BOILER PUMP	BOILER ROOM	2	_	230	1	HOUSE PANEL IN BOILER ROOM	15	2	2#12	3/4

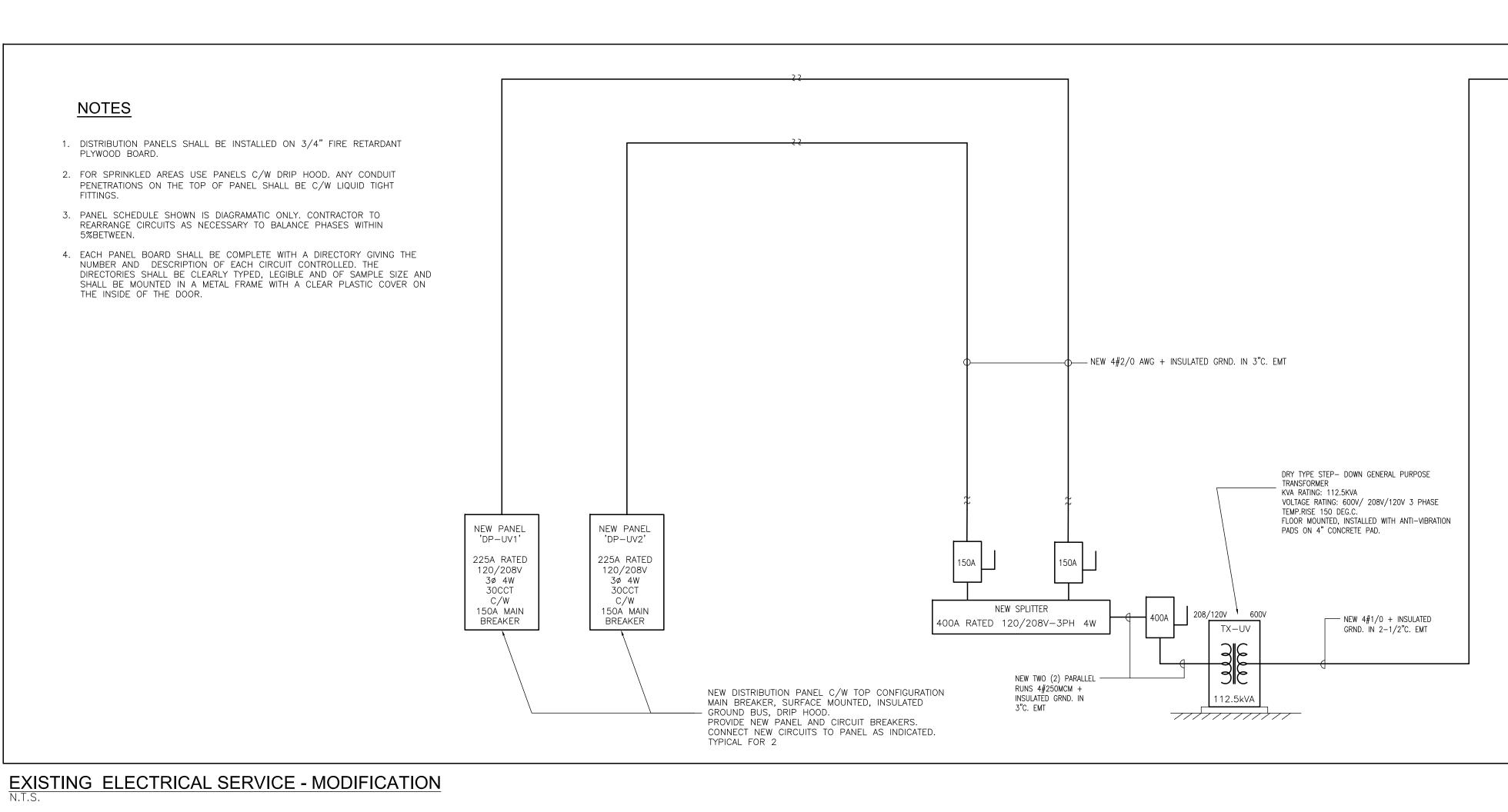
PROVIDE LOCAL NON-FUSED DISCONNECT SWITCHES IN ACCORDANCE WITH LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE 2. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION.

3. CONFIRM BREAKER/FUSE AND/OR DISCONNECT PRIOR TO ORDERING.

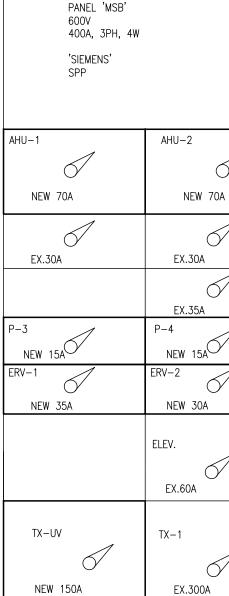
4. PROVIDE FEEDERS IN EMT CONDUITS FROM DISTRIBUTION PANEL/MCC TO MECHANICAL EQUIPMENT. EXACT ROUTE(S) SHALL BE DETERMINED ON SITE. 5. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.

6. INFORMATION PROVIDED ON DRAWINGS BASED ON VISUAL SITE INSPECTION. IT IS CONTRACTOR'S RESPONSIBILITY TO CONDUCT A SITE REVIEW PRIOR TO PRICING TO BECOME FAMILIAR WITH THE SITE CONDITIONS, VERIFY ALL LOCATIONS, SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT WITH PROPOSED RESOLUTION AND OBTAIN CONSULTANT'S APPROVAL. . RE-ARRANGE EXISTING DISCONNECT SWITCHES, DISTRIBUTION PANEL CIRCUIT BREAKERS AND CIRCUITS AS REQUIRED TO ALLOW FOR NEW INSTALLATION.

8. REMOVE ALL REDUNDANT EQUIPMENT AND WIRING. 9. RELOCATE EXISTING SERVICES TO ALLOW FOR NEW EQUIPMENT INSTALLATION.

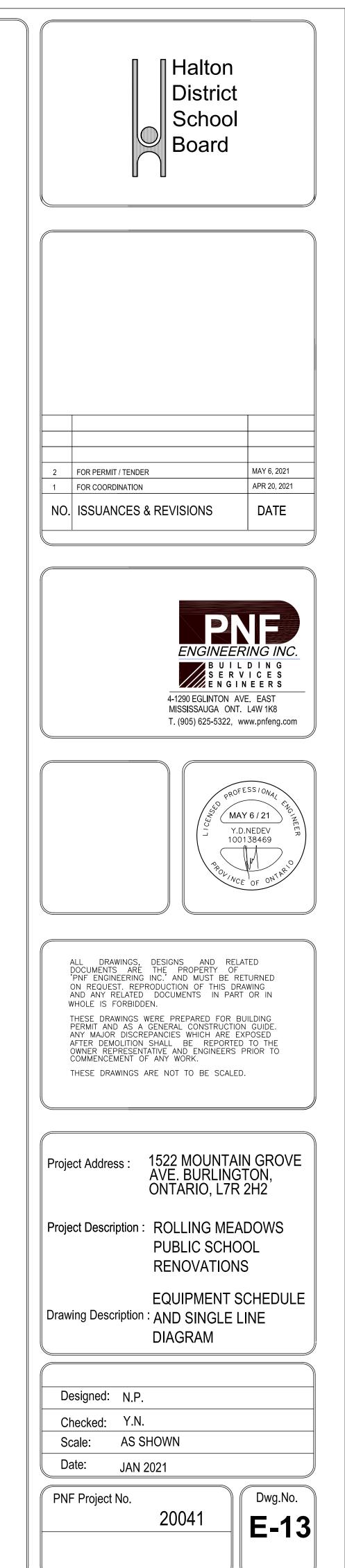


NEW DISTIBURTION PANE	L				■ 1: ■ SI	20/2 JRFA	08V/3 CE MOI	PH/4W, 225 A UNTED
'DP-UV1'					IN	SULA	TED GF	ROUND BUS
DECODIDITION			0.0T					REAKER
DESCRIPTION	LOAD	20 /		A	2	вкк 20 /	LOAD	DESCRIPTION
UV-1			3	В	4	20/		UV-3
		/3P	5	С	6	/3P		
		20/	7	A	8	20/		
UV-2			9	в	10			UV-4
		/3P	11	С	12	/3P		
		20	13		14	20/	1	
UV-5			15					UV-6
		/ 3P 20 /	17 19		18 20	/ 3P 15		BAS CONNECTION
UV-7			21		20	15		BAS CONNECTION
		/3P	23		24	15		SPARE
			25		26	15		SPARE
			27	В	28			
			29	С	30			
NOTES:								



EXISTING MAIN DISTRIBUTION

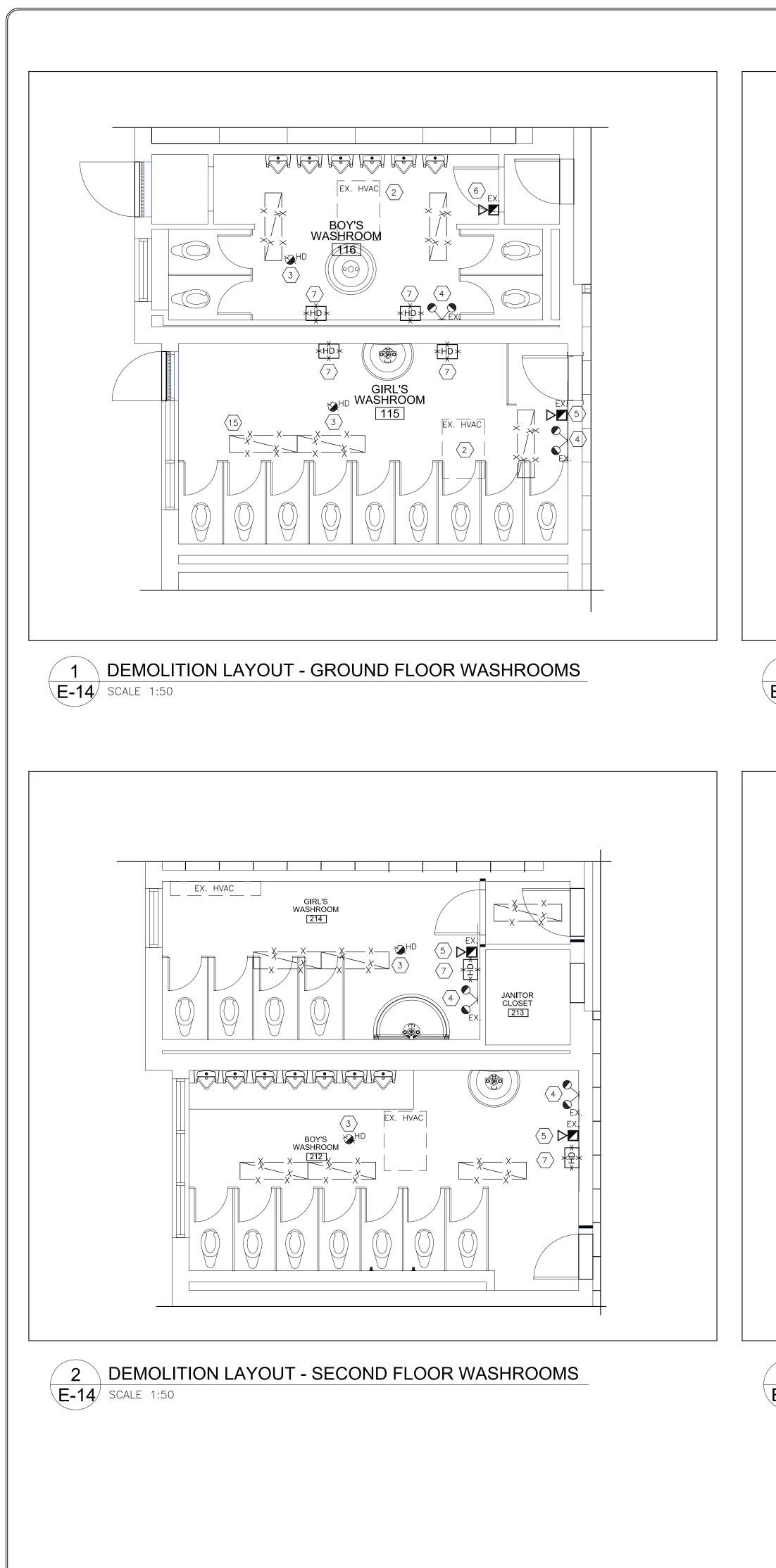
REMARKS

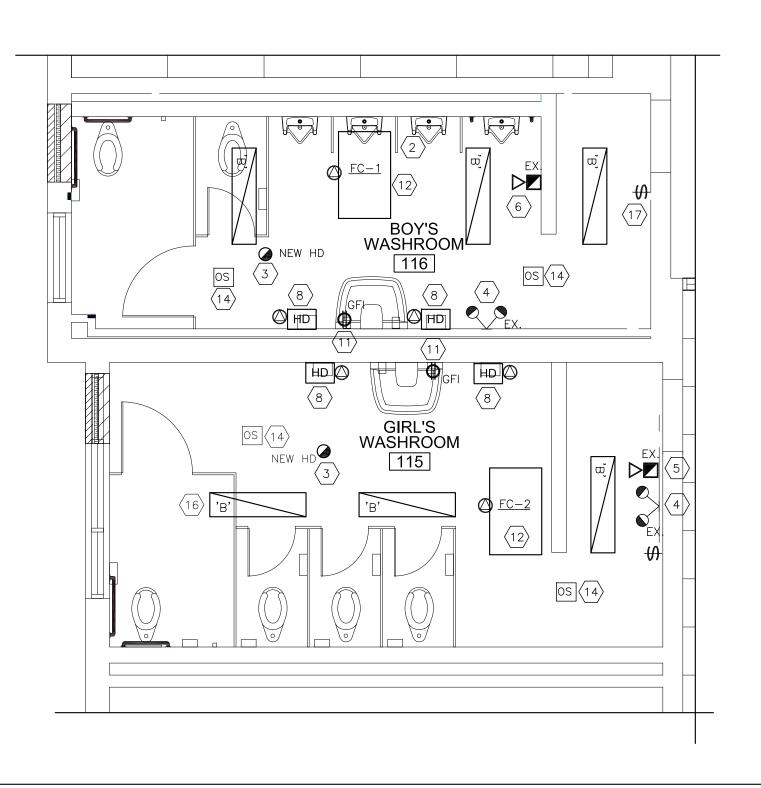


W DISTIBURTION PANEL ■ 120/208V/3 PH/4W, 225 A ■ SURFACE MOUNTED ■ INSULATED GROUND BUS C/W MAIN BREAKER													
DESCRIPTION	LOAD	BKR	CCT		CCT	BKR	LOAD	DESCRIPTION					
UV-8		20 / 3P	1 3 5	A B C	2 4 6	20 / 3P		UV-9					
UV-10		45 3P	7 9 11	A B C	8 10 12	45 3P		UV-11					
BAS CONNECTION		15	13	А	14	15		BAS CONNECTION					
SPARE		15	15	В	16	15		SPARE					
SPARE		15	17	С	18	15		SPARE					
			19	А	20								
			21	В	22								
			23	С	24								
			25	А	26								
			27	В	28								
			29	С	30								

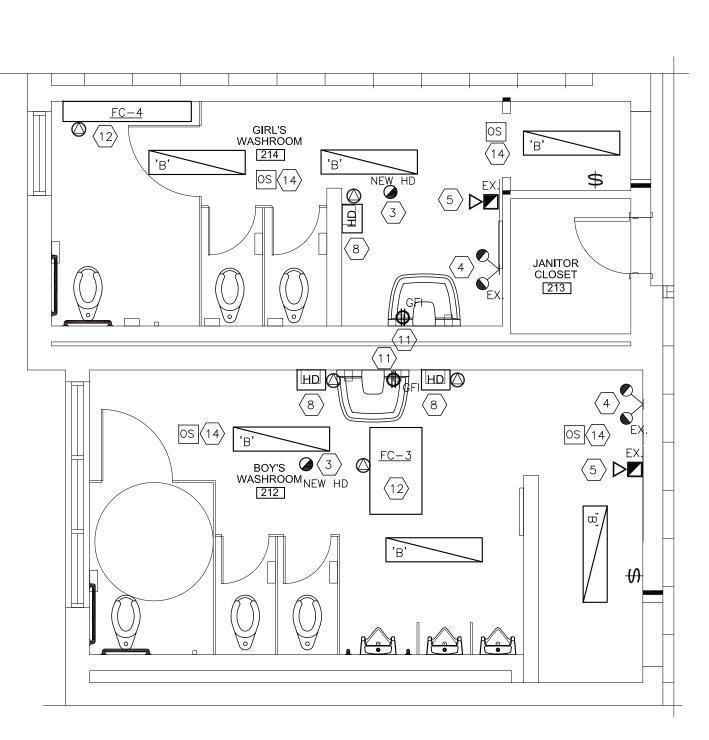
ACT CIRCUIT BREAKER AND POWER REQUIREMENT FOR UNIT VENTILATORS SHALL BE CONFIRMED WITH JIPMENT MANUFACTURER

A	NEW CIRCUIT BREAM EXTENSIONS TO FILI TRIM AS REQUIRED.	l gap between e	APACITY AS INDICATED. BREAKER AND PANEL SHOWN	
x /				
\checkmark				
1				
7				



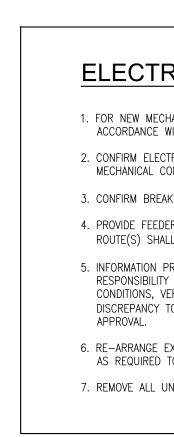


3 NEW LAYOUT - GROUND FLOOR WASHROOMS E-14 SCALE 1:50



4 NEW LAYOUT - SECOND FLOOR WASHROOMS E-14 SCALE 1:50

 FOR COC SER LOC EXA ALL MOL ALL PRC PRC PRC PRC PRC 	NER FULL DE RDINATE VICES ANI ATION OF CT LOCAT WALL MC INTED CO NEW FIR VIDE TES VIDE TES CT POWEF UAL.
DR	XAW
$\langle 1 \rangle$ $\langle 2 \rangle$	EXISTING RE-USE FIXTURE DISCONN
$\langle 3 \rangle$	WIRING REPLACE
$\langle 4 \rangle$ $\langle 5 \rangle$	EXISTING
6	RELOCA
$\langle 7 \rangle$	DISCONN LABEL E
8	PROVIDE CEILING
$\langle 9 \rangle$ $\langle 10 \rangle$	SPARE SPARE
$\langle 11 \rangle$	PROVIDE PROOF
(12)	PROVIDE NEW WIR
$\langle 13 \rangle$	SPARE
$\langle 14 \rangle$	NEW CE LIGHTINC
(15)	EXISTING CIRCUITS THE NEV
(16)	SUPPLY NEW LIC SHOWN.
(17)	PROVIDI CIRCUIT
	NEW LIC SHOWN. PROVIDI



RAL NOTES:

DEMOLITION LAYOUT REFER TO ARCHITECTURAL LAYOUT. ELECTRICAL CONTRACTOR SHALL E WITH ARCHITECTURAL DRAWINGS. DISCONNECT AND REMOVE ALL UNUSED ELECTRICAL AND WIRING.

OF EXISTING ELECTRICAL SERVICES ARE TAKEN FROM EXISTING ELECTRICAL DRAWINGS. ATION SHALL BE CONFIRMED ON SITE BY CONTRACTOR.

MOUNTED EQUIPMENT AND ACCESSORIES SHALL BE SURFACE MOUNTED WITH SURFACE ONDUITS.

FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. ESTING, VERIFICATION AND REPORT FOR ALL EXISTING AND NEW FIRE ALARM DEVICES. ESTING, VERIFICATIONS AND REPORT FOR ALL EXISTING AND NEW EMERGENCY LIGHTING. WER REQUIREMENT FOR ALL EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS

VING NOTES

ING SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE AND SWITCH TO BE REMOVED. ISE EXISTING LIGHTING CIRCUITS AND EXTEND WIRING AS REQUIRED TO SUIT NEW LIGHTING RES. FOR MORE DETAILS REFER TO THE NEW LIGHTING LAYOUT. TYPICAL. DNNECT POWER CONNECTION FROM EXISTING HVAC UNIT. EXTEND AND REUSE EXISTING IG AND CIRCUITS FOR NEW HVAC UNITS. FOR MORE DETAILS REFER TO NEW HVAC LAYOUT.

CE EXISTING HEAT DETECTOR AFTER NEW CEILING IS INSTALLED.

TING EMERGENCY LIGHTING TO REMAIN. TYPICAL.

ING FIRE ALARM STROBE AND HORN TO REMAIN. TYPICAL WHERE SHOWN.

CATE EXISTING FIRE ALARM STROBE AND HORN AS SHOWN

NECT POWER CONNECTION FROM EXISTING PANEL AND REMOVE EXISTING HAND DRYER. EXISTING BREAKER AS 'SPARE'.

E 15A-120V CONNECTION FOR HAND DRYER. RUN NEW WIRING IN NEW BLOCK WALL UP TO AND BACK TO NEW SUB-PANEL.

E NEW 120V GFI RECEPTACLE FOR WASHFOUNTAIN PLUG-IN TRANSFORMER IN SPLASH BOX. EXACT LOCATION COORDINATE WITH PLUMBING CONTRACTOR. E NEW POWER CONNECTION FOR NEW HVAC UNIT. EXTEND EXISTING WIRING AND PROVIDE RING AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT.

CEILING MOUNTED OCCUPANCY LIGHTING SENSOR (OS). CONNECT TO LIGHTING CIRCUIT. SEE ING LAYOUT FOR REFERENCE. TYPICAL FOR EIGHT (8).

NG LIGHTING FIXTURE TO BE REMOVED. RE-USE EXISTING AND PROVIDE NEW LIGHTING ITS AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT. FOR MORE DETAILS REFER TO IEW LIGHTING LAYOUT. TYPICAL WHERE SHOWN.

Y AND INSTALL NEW LIGHTING FIXTURE AS SPECIFIED. RE-USE EXISTING AND PROVIDE IGHTING CIRCUITS AS REQUIRED TO ACCOMMODATE NEW LIGHTING LAYOUT. TYPICAL WHERE N.

IDE NEW LIGHTING SWITCH AND PLATE AS SHOWN. CONNECT TO EXISTING LIGHTING JITS. TYPICAL WHERE SHOWN

ELECTRICAL NOTES:

1. FOR NEW MECHANICAL EQUIPMENT PROVIDE LOCAL NON-FUSED DISCONNECT SWITCHES IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE.

2. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION.

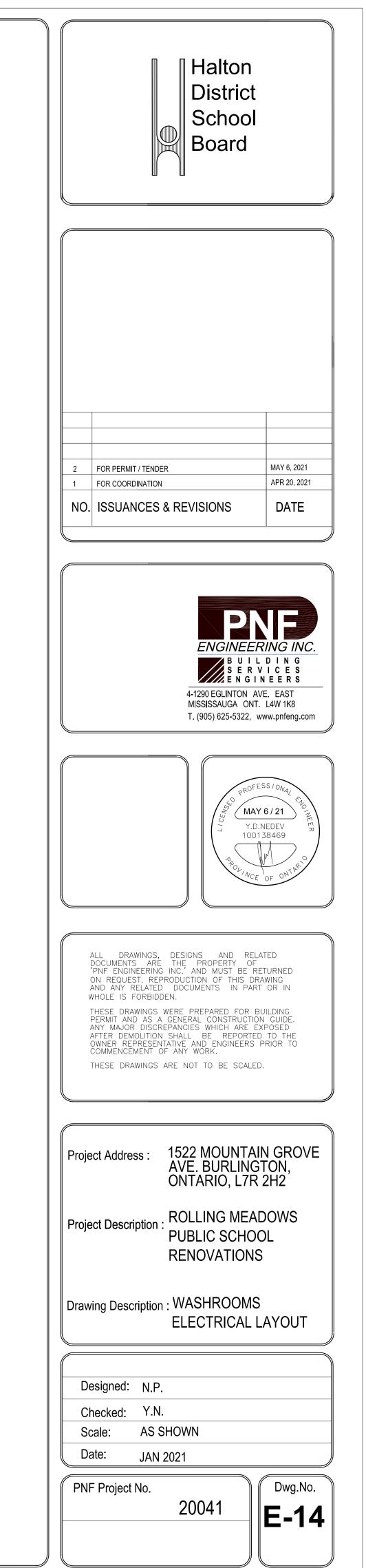
3. CONFIRM BREAKER/FUSE AND/OR DISCONNECT PRIOR TO ORDERING DISTRIBUTION.

4. PROVIDE FEEDERS IN EMT CONDUITS FROM DISTRIBUTION PANEL TO MECHANICAL EQUIPMENT. EXACT ROUTE(S) SHALL BE DETERMINED ON SITE.

5. INFORMATION PROVIDED ON DRAWINGS BASED ON VISUAL SITE INSPECTION. IT IS CONTRACTOR'S RESPONSIBILITY TO CONDUCT A SITE REVIEW PRIOR TO PRICING TO BECOME FAMILIAR WITH THE SITE CONDITIONS, VERIFY ALL LOCATIONS, SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT WITH PROPOSED RESOLUTION AND OBTAIN CONSULTANT'S

6. RE-ARRANGE EXISTING DISCONNECT SWITCHES, DISTRIBUTION PANEL CIRCUIT BREAKERS AND CIRCUITS AS REQUIRED TO ALLOW FOR NEW INSTALLATION.

7. REMOVE ALL UNUSED ELECTRICAL WIRING AND CONDUITS.



ELECTRICAL SPECIFICATION

- PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOUR, MATERIAL, EQUIPMENT, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
- . EXAMINE THE SITE, EXISTING EQUIPMENT AND THE LOCAL CONDITIONS AFFECTING THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY FOR ANY OBVIOUS CONSIDERATIONS OVERLOOKED. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY.
- AFTER THE WORK IS COMPLETE BUT BEFORE FINAL PAYMENT, GIVE THE OWNER A WRITTEN GUARANTEE THAT YOU WILL, AT NO CHARGE TO THE OWNER, REPLACE OR REPAIR ANY DEFECTS IN WORKMANSHIP AND MATERIALS NOT DUE, IN THE OPINION OF THE ARCHITECT TO MISUSE OR NEGLECT. GUARANTEE SHALL COVER A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE ARCHITECT. THIS GUARANTEE SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OR GUARANTEES OF LONGER PERIOD, BUT SHALL BE BINDING ON ALL OTHER WORK NOT OTHERWISE
- ALL WORK SHALL COMPLY STRICTLY TO THE REQUIREMENTS OF THE LATEST EDITIONS OF THE CANADIAN ELECTRICAL "CSA" CODE AS ADOPTED AND AMENDED BY PROVINCIAL REGULATIONS AND THE BUILDING CODE. THESE CODES AND ANY ADDITIONAL REQUIREMENTS OF THE POWER UTILITY SHALL FORM AN INTEGRAL PART OF THIS SPECIFICATION. ALL EQUIPMENT SHALL BE CSA APPROVED. WHERE DRAWING CALLS FOR EQUIPMENT, WIRING OR OTHER REQUIREMENTS EXCEEDING THE MINIMUM REQUIREMENTS OF THE CODE, THE DRAWING SHALL BE FOLLOWED.
- BEFORE STARTING ANY WORK, SUBMIT THE REQUIRED NUMBER OF COPIES OF THE ELECTRICAL DRAWING TO THE POWER AUTHORITY ELECTRICAL INSPECTION DEPARTMENT REGIONAL OFFICE, FOR THEIR APPROVAL AND COMMENTS.
- 6. PAY ALL FEES FOR EXAMINATION OF DRAWING AND OBTAIN ALL PERMITS REQUIRED AND PAY ALL PERMIT AND INSPECTION FEES.
- ARRANGE FOR INSPECTION OF ALL WORK BY THE POWER AUTHORITY INSPECTION DEPARTMENT. ON COMPLETION OF THE WORK, PRESENT TO THE OWNER THE FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL. 8. ON AWARD OF CONTRACT, SUBMIT FOR REVIEW LIST OF DELIVERY DATES AND SHOP
- DRAWINGS FOR ALL EQUIPMENT. 9. SCHEDULE AND CO-ORDINATE ALL WORK WITH OTHER TRADES.
- 10. EQUIPMENT SUPPLIED SHALL BE NEW, FREE OF OBJECTIONABLE NOISE AND VIBRATIONS.
- 11. TENANT SHALL HAVE TEMPORARY USE OF INSTALLATION PRIOR TO FINAL ACCEPTANCE.
- 12. ALL CLAIMS FOR EXTRAS SHALL BE SUPPORTED BY WRITTEN AUTHORIZATION AND ITEMIZED MATERIAL AND LABOUR COST BREAKDOWNS.
- 13. ALL NEW AND EXISTING ELECTRICAL EQUIPMENT MOUNTED AND CONNECTED BY THIS CONTRACTOR, WHETHER SUPPLIED BY HIM OR NOT, SHALL BE IDENTIFIED BY MEANS OF PLASTIC NAMEPLATES. THESE NAMEPLATES SHALL BE FASTENED WITH SCREWS AND MUST ALSO INDICATE THE SOURCE OF SUPPLY TO THE EQUIPMENT.
- 14. WIRING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED WIRING SHALL BE RUN IN EMT OR RIGID CONDUIT AS REQUIRED BY CODE OR IN WIREMOLD IN FINISHED AREAS, BX CABLE MAY BE USED IN HOLLOW PARTITIONS OR SUSPENDED CEILINGS. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER TO 70'- #10 TO 125' CONDUIT TO BE RUN PARALLEL TO BUILDING LINES BRANCH WIRING UP TO AND INCLUDING #8 TO BE SOLID, LARGER THAN #8 TO BE STRANDED. ALL BRANCH WIRE TO BE APPROVED FOR 600 VOLTS.
- 15. EXPLOSIVE FASTENERS SHALL NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL FROM
- THE LANDLORD.
- 16. FLUORESCENT AND INCANDESCENT LIGHTING FIXTURES SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. DO NOT RELY ON CEILING FOR SUPPORT.
- 17. LIGHT SWITCHES SHALL BE AS FOLLOWS: (SILENT ACTUATING) SINGLE POLE, TOGGLE TYPE - LEVITON SERIES 18221 WHITE OR EQUAL. 347 VOLT. SINGLE POLE, TOGGLE TYPE - LEVITON SERIES 1221 WHITE OR EQUAL. 120 VOLT. THREE WAY TOGGLE - LEVITON 1223 DIMMERS TO BE 'LEVITON' SLIDING TYPE. MOUNT SWITCHES AT 48" AFF UNLESS OTHERWISE NOTED.
- 18. DUPLEX RECEPTACLES SHALL BE HUBBELL CAT.#5252 BLACK OR EQUAL, MOUNTED AT 12" AFF. UNLESS OTHERWISE NOTED.
- 19. COVERPLATES FOR RECEPTACLES AND SWITCHES SHALL BE STAINLESS STEEL, SMITH &
- STONE OR EQUAL. 20. RECEPTACLES FOR COMPUTER TERMINALS SHALL HAVE ISOLATED GROUND WITH SEPARATE INSULATED GROUND WIRE DIRECT TO GROUND IN DISTRIBUTION PANEL. PROVIDE SEPARATE NEUTRAL CONDUCTOR AS WELL. RECEPTACLES SHALL BE ORANGE.

- 21. DISCONNECT SWITCHES SHALL BE TYPE A, HORSEPOWER RATED. "SWITCHMATIC" BY FPE OR EQUAL BY WESTINGHOUSE OR ITE. FUSES SHALL BE HRC FORM 1. FUSES PROTECTING MOTORS OR TRANSFORMERS SHALL BE "FUSETRON" OR EQUAL.
- 22. SUPPLY AND INSTALL EMPTY CONDUIT C/W NYLON PULLSTRING, OUTLETS, BACKBOARDS, PULL BOXES AND WIRING FOR BELL TELEPHONE CABLES AND EQUIPMENT
- 23. ALL MATERIAL SHALL BE STORED NEATLY AND OUT OF THE WAY. CLEAN UP DAILY ALL REFUSE CAUSED BY WORK. AT COMPLETION OF PROJECT CLEAN ALL FIXTURES AND EQUIPMENT.
- 24. PROVIDE TEMPORARY POWER AND LIGHTING FOR CONSTRUCTION WHEN REQUIRED. ONE LAMP SOCKET AND 150W LAMP PER EVERY 400 SQUARE FEET AND ONE POWER OUTLET FOR EVERY 1500 SQUARE FEET OR AREA.
- 25. <u>LIGHTING PANELS</u> LIGHTING PANELS SHALL BE OF THE TYPE AND SIZE INDICATED WITH THE NUMBER OF BRANCH CIRCUITS AS SHOWN ON THE DRAWINGS. PANELS MUST BE LOCKABLE. PANELS SHALL BE PANELBOARD TYPE WITH TOGGLE TYPE, BOLT-IN BREAKERS, AS MANUFACTURED BY CUTLER HAMMER, FEDERAL PIONEER 'NBLP', WESTINGHOUSE OR APPROVED EQUAL.
- EACH LIGHTING PANEL SHALL HAVE TYPEWRITTEN DIRECTORY WITH TRANSPARENT PLASTIC COVER. REVISE DIRECTORY TO SUIT NEW AND EXISTING CIRCUITING. CIRCUIT LOADS SHALL BE BALANCED ACROSS PHASES AS CLOSELY AS POSSIBLE. PROVIDE LOCKING DEVICES ON BREAKERS CONTROLLING CIRCUITS FOR EXIT LIGHTS, TIME SWITCHES, MECHANICAL CONTROLS, ETC.
- SUBMIT TO ENGINEER/ARCHITECT A SET OF SHOP DRAWINGS IN PDF FOR REVIEW COVERING COVERING ALL MAJOR MANUFACTURED ITEMS. 26.CO-ORDINATE WITH LANDLORD AND ADJACENT TENANTS AS REQUIRED FOR ACCESS, POWER SHUTDOWNS, ETC.
- 27. WIRING FOR MECHANICAL WORK MECHANICAL TRADE WILL SUPPLY ALL STARTERS, CONTROL TRANSFORMERS AND CONTROLS FOR EQUIPMENT SUPPLIED BY THEM AND WILL MOUNT ALL THESE EXCEPT FOR WALL MOUNTED STARTERS AND WALL MOUNTED LINE VOLTAGE CONTROLS, WHICH SHALL BE MOUNTED BY ELECTRICAL TRADE.
- ELECTRICAL TRADE SHALL DO ALL POWER WIRING, WHICH IS WIRING WHICH CARRIES THE LOAD CURRENT OF THE MOTOR, HEATER, HOT WATER TANK OR OTHER EQUIPMENT SUPPLIED BY MECHANICAL TRADE. MECHANICAL TRADE WILL DO ALL OTHER RELATED
- 28.FIRE ALARM DEVICES IF REQUIRED TO BE AS PER BASE BUILDING STANDARD AND TIED INTO BASE BUILDING SYSTEM. ALL WORK MUST BE DONE IN ACCORDANCE WITH LANDLORDS REQUIREMENTS. REFER TO LANDLORDS GUIDELINES. 29. CUTTING, PATCHING AND PAINTING WILL BE BY GENERAL TRADES.
- 30. AT COMPLETION OF WORK PROVIDE THE TENANT WITH A SET OF AS-BUILT RECORD DRAWINGS. THE AS-BUILT DRAWINGS SHALL INDICATE ALL APPROVED CHANGE NOTICES AND SITE DEVIATIONS.
- 31. EMERGENCY LIGHTING UNITS. (FINISH TO BE WHITE) AS PER LUMINARE SCHEDULE
- 32. ALL CONFLICTS WITH APPLICABLE REGULATIONS SHALL BE RESOLVED BEFORE INSTALLATION BY THE CONTRACTOR AT HIS EXPENSE.
- 33. IF ADDITIONAL CLARIFYING DETAILS ARE REQUIRED BY THE LOCAL INSPECTION AUTHORITIES, THESE
- DETAILS SHALL BE PREPARED AND APPROVAL SECURED BY THE CONTRACTOR AT HIS EXPENSE. 34. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, THEREFORE THE CONTRACTOR WILL MAKE USE OF ALL CONTRACT DOCUMENTATION AND SHALL FINALLY VERIFY THIS INFORMATION AGAINST SITE CONDITIONS.
- 35. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSTALL CONDUIT WITH ALL NECESSARY OFFSETS, JUNCTION BOXES, ETC. IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, MAINTAIN GOOD PRACTICE, AND AS PER THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE.
- 36. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE OVER ELECTRICAL DWG.
- 37. DISCREPANCIES BETWEEN DIFFERENT DRAWINGS OR SPECIFICATIONS SHALL BE PROMPTLY BROUGHT
- 38. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO SUPPORT ALL LIGHTING FIXTURES ADEQUATELY.
- VERIFY AVAILABILITY OF FIXTURES PRIOR TO ORDERING. 39. BEFORE ANY CUTTING OR CORE DRILLING OF EXISTING WALLS AND/OR FLOOR CLEARLY MARK
- EXISTING BUILDING SERVICES AND STRUCTURAL MEMBERS BY RADAR SCREENING. 40. ALL PENETRATIONS THROUGH FIRE SEPARATION SHALL BE SEALED
- WITH FIRE RETARDANT SEALANT WITH RATING TO MATCH FIRE RATING OF WALLS/FLORS/CEILING.

TO THE ATTENTION OF THE ARCHITECT/ENGINEER. WORK IN AFFECTED AREAS SHALL BE STOPPED.

F/A SYSTEM REQUIREMENTS

- BASE BUILDING FIRE ALARM SYSTEM IS EXISTING TO REMAIN. COMPLETE FIRE ALARM DEVICES INSTALLATION AND SYSTEM VERIFICATION REQUIRED UNDER THIS CONTRACT MUST BE HANDLED THROUGH BASE BUILDING FIRE ALARM CONTRACTOR. (ELECTRICAL CONTRACTOR SHALL CARRY A SUBCONTRACT WITH BASE BUILDING F/A CONTRACTOR).
- . PRIOR TO COMMENCING ANY NEW INSTALLATION AND REVISIONS TO THE BASE BUILDING FIRE ALARM SYSTEM DIV.16 SHALL OBTAIN A WRITTEN APPROVAL BY THE BASE BUILDING ENGINEERS AND/OR PROPERTY MANAGER.
- . UNLESS OTHERWISE NOTED OR DESIGNATED ON DRAWINGS ALL EXISTING FIRE ALARM DEVICES (PULL STATIONS, BELLS, ETC.) INCLUDING DEVICES NOT SHOWN IN THE COMMON AREAS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- . WHERE EXISTING FIRE ALARM DEVICES TO BE REMOVED, REMAINING OF OTHER EXISTING DEVICES SHALL BE KEPT OPERATIONAL AT ALL TIME.
- NEW FIRE ALARM SYSTEM/DEVICES TO BE INSTALLED PER CAN/ULC-S524-01 AND VERIFIED PER CAN/ULC-S537-04. A COPY OF THE FIRE ALARM VERIFICATION CERTIFICATE MUST BE SUBMITTED TO THE CONSULTANTS PRIOR TO ISSUING FINAL ACCEPTANCE LETTER TO THE CITY AS PER O.B.C. REQUIREMENTS.
- . ALLOW IN CONTRACT BID RELOCATION OF ANY EXISTING FIRE ALARM DEVICE (PULL STATION, P/A SPEAKERS, ELECTRONIC MINIHORNS) TO NEW WALL/CEILING FINISHES TO SUIT NEW TENANT LAYOUT.
- NEW DEVICES MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
- PROVIDE ALL NECESSARY SYSTEM RE-PROGRAMMING TO SUIT DEVICE AND ZONE CHANGES, IF APPLICABLE.
- . CO-ORDINATE ALL SYSTEM BY-PASSES AND SHUTDOWNS WITH BUILDING AUTHORITY. REINSTATE SYSTEM TO FULL OPERATION AT THE END OF EACH WORKING PERIOD. AT NO TIME SHALL FIRE PROTECTION EQUIPMENT BE IMPAIRED WITHOUT A QUALIFIED TECHNICIAN IN ATTENDANCE.
-). CONFIRM GRAPHICAL ZONING & REVISE F/A GRAPHIC PLAN TO SUIT ANY PROPOSED CHANGES.
- PROVIDE "AS-BUILT" DRAWINGS SHOWING LOCATION OF ALL F/A DEVICES (PULL STATION, BELL, FIRE DETECTOR, END OF LINE DEVICES ETC.), WITH ZONE NUMBER FOR EACH DEVICE.
- . PROVIDE ON-SITE TRAINING TO OPERATIONS PERSONNEL TO DEMONSTRATE ANY SYSTEM CHANGES.

DEMOLITION SPECIFICATION

- ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL ALTERATIONS AND ADDITIONS ARE BEING MADE IN THE EXISTING AREAS NOTED ON ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- 2. VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS AND ALL TENDERING DOCUMENTS, DRAWINGS AND SPECIFICATIONS AND MAKE NECESSARY ALLOWANCES IN TENDER PRICE FOR REMOVAL, RELOCATION, REROUTING, RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND WIRING AS MAY BE NECESSARY FOR THE EXECUTION AND COMPLETION OF THIS PROJECT. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED BY THIS TRADE THROUGH FAILURE TO MAKE THIS EXAMINATION.
- . REMOVE AND/OR RELOCATE AND REINSTALL ALL WIRING. FIXTURES AND EQUIPMENT AS NECESSARY TO ACCOMMODATE ARCHITECTURAL AND STRUCTURAL ALTERATIONS AND ADDITIONS BEING ALTERED OR DEMOLISHED, BUT FEEDING OUTLETS OR EQUIPMENT REQUIRED TO REMAIN IN SERVICE SHALL BE REROUTED AS REQUIRED TO MAINTAIN THE CONTINUITY OF
- THESE SERVICES. . SUPPLY, INSTALL AND MAINTAIN ALL REQUIRED TEMPORARY WIRING TO OCCUPIED AREAS AT ALL TIMES. PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT SERVING THE EXISTING AND NEW AREAS AND PARTICULARLY WHERE WIRING AND ELECTRICAL EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL INJURY OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.
- EXISTING ELECTRICAL EQUIPMENT REMOVED AND INDICATED FOR REUSE SHALL BE CLEANED BEFORE INSTALLATION. ALL UNUSED CONDUIT ENTRANCE OPENINGS SHALL BE SEALED BEFORE REINSTALLATION.
- REUSED LIGHTING FIXTURES SHALL BE CLEANED AND RELAMPED WITH NEW LAMPS. EXISTING LIGHTING FIXTURES INDICATED FOR REUSE SHALL BE STORED SAFELY ON THE SITE UNTIL READY FOR INSTALLATION. ALL EXISTING LAMPS AND THE EXISTING FIXTURES NOT BEING REUSED SHALL BE HANDED OVER TO THE OWNERS ON COMPLETION OF THE PROJECT.
- OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK TO A SUITABLE POINT, MAKE SAFE, AND REMOVED TO MINIMIZE INTERFERENCE WITH NEW WORK.
- CERTAIN ITEMS ARE IDENTIFIED ON THE DRAWINGS AS EXISTING EQUIPMENT "RELOCATED". DISCONNECT SUCH EQUIPMENT FROM ITS PRESENT SOURCE AND AFTER RELOCATION RECONNECT AND REINSTALL ALL ELECTRICAL COMPONENTS.
- ALL EXISTING EQUIPMENT AND MATERIAL NOT REQUIRED IN THE FINAL INSTALLATION SHALL BE CAREFULLY REMOVED AT THE APPROPRIATE TIME AND SHALL BE DISPOSED OF OR HANDED OVER TO OWNER.

LEGEND				
⊗ Ø	CEILING OR WALL MOUNTED EXIT LIGHT			
<u>7777777</u> 7 77777777 7	LIGHTS ON NIGHT CIRCUIT			
	EMERGENCY LIGHTING BATTERY UNIT			
₽ ⊥	REMOTE EMERGENCY LIGHT MOUNTED ON WALL OR CEILING.			
\$\$\$	SINGLE POLE TOGGLE SWITCH WITH ONE, TWO OR THREE GANG COVERPLATE			
\$2\$3\$\$4	SWITCHES AS ABOVE, NUMBER DENOTES 2, 3, OR 4 WAY.			
Φ	15A/120V DUPLEX RECEPT. OR AS NOTED			
Ø	15A, 120 V DUPLEX RECEPT WITH I.G.			
⊕	15A/120V DUPLEX RECEPT., SPLIT WIRED			
•	SPECIAL RECEPTACLE AS NOTED ON DWG			
\bigcirc	120 VOLT DIRECT CONNECTION , 1PH.			
	208 VOLT DIRECT CONNECTION , 1 PH.			
۲	208 VOLT DIRECT CONNECTION, 3 PH.			
۲	347/600 VOLT DIRECT CONNECTION 3 PH			
	FLUSH OR SURFACE MTD. LIGHTING PANEL			
A.1	CIRCUIT #1 IN PANEL 'A'			
Ľ	UNFUSED DISCONNECT SWITCH			
ų	FUSED DISCONNECT SWITCH			
	FIRE ALARM BELL			
	FIRE ALARM STROBE AND HORN			
	FIRE ALARM MANUAL PULL STATION			
	CEILING MOUNTED HEAT DETECTOR			
S	SPEAKER			
	VOICE/DATA OUTLET			

