SCHEDULE OF GRILLES & DIFFUSERS

TYPE	SERVICE	MANUFACTURER	MODEL	VOLUME CONTROL	FINISH	REMARKS
A	SUPPLY	E.H. PRICE	SCD	YES	–	ADJUSTABLE SQUARE CONE DIFFUSER, SIZE AS NOTED
B	RETURN	E.H. PRICE	80 SERIES	NO	–	NON DUCTED EGGCRATE RETURN GRILLE, SIZE AS NOTED
C	EXHAUST	E.H. PRICE	510Z	YES	–	SIZE AS NOTED
D	SUPPLY	E.H. PRICE	520	YES	–	SIZE AS NOTED
E	RETURN	E.H. PRICE	530	YES	–	SIZE AS NOTED
F	RETURN	E.H. PRICE	80 SERIES	NO	–	DUCTED EGGCRATE RETURN GRILLE, FRAME "F", SIZE AS NOTED
G	SUPPLY	E.H. PRICE	SDS	YES	–	LINEAR SLOT DIFFUSER WITH SQUARE PLENUM
H	SUPPLY	E.H. PRICE	STG1	NO	–	DOOR GRILL
PH1,2	SUPPLY/ EXHAUST	E.H. PRICE	BCDE635	NO	–	C/W BIRD AND INSECT SCREEN, ROOF CURB

SCHEDULE OF EXHAUST FANS

TAG	SERVES	MANUFACTURER	MODEL	AIR FLOW (CFM)	ESP (PA)	WATTS [HP]	RPM	POWER (V/PH/HZ)	FLA Amps	WEIGHT (KG)	TYPE	REMARKS
EF–1	STORAGE 164,166	GREENHECK	SQ–90–VG	250	75	75 1/10	1203	115/1/60	1.38	16	DIRECT DRIVE, IN–LINE	C/W VIBRATION ISOLATORS
EF–2	W/R 165	GREENHECK	SP–B150	150	78	128 1/10	1050	115/1/60	1.8	4.5	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–3	STORAGE 169	GREENHECK	SP–B150	150	78	128 1/10	1050	115/1/60	1.8	4.5	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–4	W/R 170	GREENHECK	SQ–90–VG	300	125	75 1/10	1532	115/1/60	1.38	16	DIRECT DRIVE, IN–LINE	C/W VIBRATION ISOLATORS
EF–5	STORAGE 174	GREENHECK	SP–B150	150	78	128 1/10	1050	115/1/60	1.8	4.5	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–6	W/R 175	GREENHECK	SQ–90–VG	500	75	75 1/10	1526	115/1/60	1.38	16	DIRECT DRIVE, IN–LINE	C/W VIBRATION ISOLATORS
EF–7	SPRINKLER ROOM	GREENHECK	SQ–70–VG	200	75	50 1/15	1685	115/1/60	1.3	12	DIRECT DRIVE, IN–LINE	C/W VIBRATION ISOLATORS
EF–8	PANTRY 152	GREENHECK	SP–A125	100	75	20 1/20	1100	115/1/60	0.18	7.7	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–9	LAUNDRY 153	GREENHECK	SP–A125	100	75	20 1/20	1100	115/1/60	0.18	7.7	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–10	W/R'S 154	GREENHECK	SP–A250	250	75	83 1/10	1000	115/1/60	0.56	10.9	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–11	STORAGE 156	GREENHECK	SP–A125	100	75	20 1/20	1100	115/1/60	0.18	7.7	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–12	MECH. ROOM 158	GREENHECK	SQ–70–VG	200	75	50 1/15	1685	115/1/60	1.3	12	DIRECT DRIVE, IN–LINE	C/W VIBRATION ISOLATORS
EF–13	W/R'S 157	GREENHECK	SP–A125	100	75	20 1/20	1100	115/1/60	0.18	7.7	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS, INTERLOCKED /W LIGHT
EF–14	MECH. ROOM 131	GREENHECK	CUE–100HP–VG	350	150	186 1/4	1412	115/1/60	2.85	21.3	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB
EF–15	W/R 115	GREENHECK	GB–097–6	100	100	124 1/6	1034	115/1/60	4.4	27	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB, INTERLOCKED /W LIGHT
EF–16	W/R 116	GREENHECK	GB–097–6	100	100	124 1/6	1034	115/1/60	4.4	27	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB, INTERLOCKED /W LIGHT
EF–17	W/R 117	GREENHECK	GB–097–VG	200	125	186 1/4	1404	115/1/60	2.85	19.5	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–18	STORAGE 202, 302	GREENHECK	GB–095–VG	300	187	124 1/6	1628	115/1/60	2.2	15.4	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–19	STORAGE 139, IT ROOM 136,	GREENHECK	CUE–100HP–VG	350	187	186 1/4	1725	115/1/60	2.85	19.5	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB
EF–20	STORAGE 219	GREENHECK	CUE–100HP–VG	450	187	186 1/4	1552	115/1/60	2.85	21.3	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB
EF–21	W/R 211, 212	GREENHECK	G–097–VG	200	150	186 1/4	1476	115/1/60	2.85	26	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–22	ART RM 205, 206, KILN 207	GREENHECK	CUE–140–VG	2050	187	560 3/4	1437	115/1/60	8.8	32.7	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB
EF–23	W/R'S 146, 147, 221, 222, 324, 325	GREENHECK	G–200HP–VG	3600	250	1491 2	1199	208/1/60	12.5	71.3	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–24	W/R 316	GREENHECK	GB–097–6	100	100	124 1/6	1034	115/1/60	4.4	27	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB, INTERLOCKED /W LIGHT
EF–25	W/R 318	GREENHECK	GB–097–6	100	100	124 1/6	1034	115/1/60	4.4	27	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB, INTERLOCKED /W LIGHT
EF–26	W/R 317	GREENHECK	G–097–VG	250	125	186 1/4	1570	115/1/60	2.85	19.5	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–27	JANITOR 320	GREENHECK	SP–B150	150	78	128 1/10	1050	115/1/60	1.8	4.5	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–28	IT 321	GREENHECK	SP–B150	150	78	128 1/10	1050	115/1/60	1.8	4.5	CEILING EXHAUST FAN	C/W VIBRATION ISOLATORS
EF–29	STORAGE 311	GREENHECK	G–097–VG	150	90	186 1/4	1118	115/1/60	2.85	19.5	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–30	SCIENCE 315	GREENHECK	CUE–100–A	1100	150	186 1/4	1725	115/1/60	5.8	25.4	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–31	PREP 313	GREENHECK	CUE–090–VG	500	150	75 1/10	1664	115/1/60	1.5	26	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–32	SCIENCE 312	GREENHECK	CUE–100–A	1100	150	186 1/4	1725	115/1/60	5.8	25.4	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–33	PHYSICS 309	GREENHECK	CUE–130–VG	1450	150	372 1/2	1375	115/1/60	6.4	29	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–34	CHEMISTRY LAB 307	GREENHECK	CUE–140–B	1300	150	186 1/4	1140	115/1/60	–	33.1	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–35	PREP 305	GREENHECK	CUE–090–VG	750	150	186 1/4	1484	115/1/60	2.85	19	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–36	CHEMISTRY LAB 303	GREENHECK	CUE–140–B	1300	150	186 1/4	1140	115/1/60	–	33.1	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–37	SCIENCE 306	GREENHECK	CUE–100–A	1100	150	186 1/4	1725	115/1/60	5.8	25.4	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–38	SCIENCE 308	GREENHECK	CUE–090–VG	650	150	186 1/4	1393	115/1/60	2.85	19	DIRECT DRIVE, UPBLAST CENTRIFUGAL ROOF FAN	C/W ROOF CURB, C/W MOTORIZED DAMPER
EF–39	JANITOR 128A	GREENHECK	GB–097–VG	200	125	186 1/4	1404	115/1/60	2.85	19.5	BELT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	C/W ROOF CURB
EF–40	LAB HOOD	GREENHECK	B–BCSW–FRP	800	249	367 1/2	1725	575/3/60	0.9	83	BELT DRIVE CENTRIFUGAL, FRP, CW, UB	WEATHER COVER & STACK
EF–41	LAB HOOD	GREENHECK	B–BCSW–FRP	800	249	367 1/2	1725	575/3/60	0.9	83	BELT DRIVE CENTRIFUGAL, FRP, CW, UB	WEATHER COVER & STACK
KEF–1	FAMILY STUDIES HOODS	SPRING AIR	XF–B2300	3928	498	3677 5	1151	208/3/60	16.7	153		NFPA–96, GREASE CONSTRUCTION, INTERLOCK WITH MAU–2
KEF–2	DAYCARE HOOD	SPRING AIR	XF–B2165	1348	498	1100 1.5	2226	208/3/60	6.6	38		NFPA–96, GREASE CONSTRUCTION
EF–DRY	DRYER IN FAMILY STUDIES	REVERSOMATIC	TLD–200	140	125	83W	2500	120/1#/60	2.0	8	IN–LINE BOOSTER FAN	C/W LINT TRAP, ALL ALUMINUM DUCT

* IN LINE AND CEILING MOUNTED EXHAUST FANS C/W EXHAUST LOUVER WITH BIRD SCREEN AND RAIN CAP

SCHEDULE OF FORCE FLOW AND UNIT HEATERS

TAG	HEATING CAPACITY W [MBH]	HEATING AGENT			POWER SUPPLY		DIMENSIONS (LxWxH) MM	WEIGHT KG [LBS]	REMARKS
		SUPPLY °C [°F]	RETURN °C [°F]	FLOW L/S [GPM]	120V/1PH	MOTOR HP			
FFH–1	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x711x241	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–2	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x711x241	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–3	4,720 [16.1]	82 [180]	71 [160]	0.1 [1.62]	120V/1PH	1/25	660x711x241	34 [75]	FULLY EXPOSED CABINET ARRANGEMENT
FFH–4	10,475 [35.74]	82 [180]	71 [160]	0.23 [3.6]	120V/1PH	1/20	965x711x241	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–5	16,540 [56.44]	82 [180]	71 [160]	0.36 [5.72]	120V/1PH	1/10	1,016x813x298	59 [130]	FULLY RECESSED CEILING CABINET ARRANGEMENT
FFH–6	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–7	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–8	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–9	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–10	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	FULLY RECESSED CEILING CABINET ARRANGEMENT
FFH–11	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x241x711	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–12	4,720 [16.1]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	660x711x241	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
FFH–13	22,100 [75.6]	82 [180]	71 [160]	0.48 [7.67]	120V/1PH	1/6	1,372x914x337	86 [190]	FULLY RECESSED CEILING CABINET ARRANGEMENT
FFH–14	8,940 [30.5]	82 [180]	71 [160]	0.19 [3.07]	120V/1PH	1/20	965x711x241	50 [110]	SEMI RECESSED CABINET ARRANGEMENT
UH–1	8,615 [29.4]	82 [180]	71 [160]	0.19 [3.0]	120V/1PH	1/20	495x470x533	40 [88]	
UH–2	8,615 [29.4]	82 [180]	71 [160]	0.19 [3.0]	120V/1PH	1/20	495x470x533	40 [88]	

SCHEDULE OF CONVECTORS

TAG	MANUFACTURER	MODEL	HEATING OUTPUT (WATTS/M)	HEATING AGENT		TUBE DIAM (MM)	FIN SIZE (MMxMM)	FIN SPACING (FINS/M)	MOUNTING HEIGHT MM [IN]		REMARKS
				SUPPLY °C [°F]	RETURN °C [°F]				AFF	ENCLOSURE	
CV–1	ENGINEERED AIR	WF–1A	1,990	82 [180]	71 [160]	20	102x102	164	100 [4]	600 [24]	TWO ROWS
CV–2	ENGINEERED AIR	WF–2A–FS	1,310	82 [180]	71 [160]	20	102x102	164	100 [4]	400 [16]	ONE ROW
CV–3	ENGINEERED AIR	WF–1B	1,380	82 [180]	71 [160]	20	102x102	164	BELOW CEILING	450 [18]	TWO ROWS
CV–4	ENGINEERED AIR	WF–1A	1,630	82 [180]	71 [160]	20	102x102	164	100 [4]	450 [18]	TWO ROWS
CV–5	ENGINEERED AIR	WF–2A–FS	1,600	82 [180]	71 [160]	20	102x102	164	100 [4]	400 [16]	TWO ROWS
CV–6	ENGINEERED AIR	WF–5A	1,420	82 [180]	71 [160]	20	102x102	164	BELOW CEILING	450 [18]	TWO ROWS
RP–1	ENGINEERED AIR	LINEAR PANEL	397	82 [180]	71 [160]	–	–	–	–	–	610 MM WIDTH, AIRTEX DESIGN

NOTE: FOR 200mm & 300mm HIGH ENCLOSURE: 130x130 ACCESS DOOR; FOR 600mm HIGH ENCLOSURE: 250x300 ACCESS DOOR

SCHEDULE OF PUMPS

TAG	MANUFACTURER	MODEL	SYSTEM	LOCATION	CAPACITY L/SEC [GPM]	HEAD (FT.)	RPM	MOTOR HP	ELECTRICAL (V/PH/HZ)	REMARKS
HWP–1	ARMSTRONG	1050–1B	HEATING	MECH. ROOM 133	0.44 [7]	20	1750	0.25	115/1/60	FOR AHU–1 COIL
HWP–2	ARMSTRONG	1050–2B	HEATING	W/R 317	3.22 [51]	25	1750	1.0	575/3/60	FOR RTU–2 COIL
HWP–3	ARMSTRONG	1050–1.5B	HEATING	MECH. ROOM 304	2.21 [35]	25	1750	0.75	575/3/60	FOR AHU–3 COIL
SP–1	BARNES	25EV514L	ELEVATOR SUMP PUMP	ELEV. MECH. RM	1.7 [27]	19	1750	0.5	120/1/60	SOLIDS HANDLING VORTEX
SP–2	BARNES	25EV514L	STORM SUMP PUMP	ELEV. MECH. RM	1.7 [27]	19	1750	0.5	120/1/60	SOLIDS HANDLING VORTEX
P–6	ARMSTRONG	ASTRO 225SSU	WET ROTOR CIRCULATOR	MECH. RM 158	0.189 [3.0]	10	3600	0.11	115/1/60	C/W FUSED STARTER/DISCONNECT

SCHEDULE OF KITCHEN HOOD

TAG	MANUFACTURER	MODEL	RPM	VOLTS	AMPS	REMARKS
KH–1	REVERSOMATIC	4000–400	1100	120/60	1.5	C/W REVERSOMATIC 8" HEAVY DUTY EXHAUST WALL CAP C/W DAMPER AND BIRD SCREEN
KH–2	REVERSOMATIC	CHW–30 400	1500	120/60	2.4	C/W REVERSOMATIC 8" HEAVY DUTY EXHAUST WALL CAP C/W DAMPER AND BIRD SCREEN
KH–7	REVERSOMATIC	4000–400	1100	120/60	1.5	C/W GOOSE NECK

SCHEDULE OF KITCHEN HOOD (ACCORDING WITH NFPA–96)

TAG	MANUFACTURER	MODEL	EXHAUST L/SEC[CFM]	SUPPLY FROM MAU–2 L/SEC[CFM]	STATIC PRESSURE KPA	GREASE EXTRACTOR LxW	HOOD LxW	WEIGHT KG[LBS]	REMARKS
KH–3	SPRING AIR	FN–B–M2	1029[2178]	977[2070]	0.09	508x635	1372x2235	173[382]	MATERIAL–304 SS, WORK WITH KEF–1
KH–4	SPRING AIR	FN–B–M2	413[875]	393[833]	0.2	406x406	1067x1016	72[158]	MATERIAL–304 SS, WORK WITH KEF–1
KH–5	SPRING AIR	FN–B–M2	413[875]	393[833]	0.2	406x406	1067x1016	72[158]	MATERIAL–304 SS, WORK WITH KEF–1
KH–6	SPRING AIR	FN–B	636[1348]	–	0.41	406x406	1067x1016	72[158]	MATERIAL–304 SS, WORK WITH KEF–2

FOR HOOD DETAILS REFER TO DWG. M–805

SCHEDULE OF DOMESTIC HOT WATER HEATERS

TAG	QTY.	MANUFACTURER	MODEL	STORAGE CAPACITY (U.S. GALLONS)	DIMENSIONS HEIGHTxDIAMETER (IN.)	HEAT INPUT (MBH)	RECOVERY RATE (100°F RISE)	WEIGHT (LB)	VENT (IN)	REMARKS
DHWT–5	1	A.O. SMITH	BTH–199A	100	76.5X27.75	199.9	235 GPH	523	4	C/W CONCENTRIC VENT

SCHEDULE OF VAV RE–HEAT COILS

TAG	SERVING	AIR FLOW L/S (CFM)	AIR TEMP. °C [°F]		APD INCH.WC (Pa)	HTG. CAP. kW [MBH]	SIZE (Hx L–MM)	WATER TEMP. °C [°F]		WATER FLOW L/S [GPM]	W.P.D. FT.WC (kPa)	PIPE CONN. MM [IN]	REMARKS
			E.A.T.	L.A.T.				E.W.T.	L.W.T.				
RTU–1	DAYCARE												LOCATION– DAYCARE ROOF
RC–R1–1	INFANT 161	425 (900)	15.5 [60]	29.4 [85]	0.15/38.0	7.53 [25.68]	320(H)x350	82 [180]	71 [160]	0.15 [2.4]	3/8.8	20 [3/4]	
RC–R1–2	TODDLER 167	425 (900)	15.5 [60]	29.4 [85]	0.15/38.0	7.53 [25.68]	320(H)x350	82 [180]	71 [160]	0.15 [2.4]	3/8.8	20 [3/4]	
RC–R1–3	TODDLER 171	425 (900)	15.5 [60]	29.4 [85]	0.15/38.0	7.53 [25.68]	320(H)x350	82 [180]	71 [160]	0.15 [2.4]	3/8.8	20 [3/4]	
RC–R1–4	PRESCHOOL 172	425 (900)	15.5 [60]	29.4 [85]	0.15/38.0	7.53 [25.68]	320(H)x350	82 [180]	71 [160]	0.15 [2.4]	3/8.8	20 [3/4]	
RC–R1–5	PRESCHOOL 176	425 (900)	15.5 [60]	29.4 [85]	0.15/38.0	7.53 [25.68]	320(H)x350	82 [180]	71 [160]	0.15 [2.4]	3/8.8	20 [3/4]	
RC–R1–6	OFFICE 177	165 (350)	15.5 [60]	29.4 [85]	0.04/10.6	2.73 [9.33]	250(H)x300	82 [180]	71 [160]	0.06 [1.0]	0.6/1.9	20 [3/4]	
RC–R1–7	STAFF 150	190 (400)	15.5 [60]	29.4 [85]	0.07/17.1	3.04[10.38]	250(H)x300	82 [180]	71 [160]	0.07 [1.1]	0.4/1.1	20 [3/4]	
RC–R1–8	KITCHEN 151	472 (1000)	12.8 [55]	29.4 [85]	0.33/81.8	9.28 [31.68]	320(H)x350	82 [180]	71 [160]	0.2 [3.2]	0.8/2.4	20 [3/4]	
AHU–1	FIRST FLOOR CLASSROOMS												LOCATION– NEW MECHANICAL ROOM ON GROUND FLOOR
RC–A1–1	CLASSROOM 143	472 (1000)	12.8 [55]	29.4 [85]	0.33/81.8	9.28 [31.68]	320(H)x350	82 [180]	71 [160]	0.2 [3.2]	0.8/2.4	20 [3/4]	
RC–A1–2	CLASSROOM 144	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A1–3	CLASSROOM 145	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
AHU–3	SECOND FLOOR CLASSROOMS												LOCATION– NEW MECH. ROOM ON THIRD FLOOR
RC–A3–1	CLASSROOM 225	472 (1000)	12.8 [55]	29.4 [85]	0.33/81.8	9.28 [31.68]	320(H)x350	82 [180]	71 [160]	0.2 [3.2]	0.8/2.4	20 [3/4]	
RC–A3–2	CLASSROOM 224	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A3–3	CLASSROOM 223	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A3–4	CLASSROOM 217	330 (700)	12.8 [55]	29.4 [85]	0.14/35.8	7.04 [24.01]	300(H)x350	82 [180]	71 [160]	0.15 [2.3]	1.4/4.0	20 [3/4]	
RC–A3–5	SPEC. EDUCATION 218	330 (700)	12.8 [55]	29.4 [85]	0.14/35.8	7.04 [24.01]	300(H)x350	82 [180]	71 [160]	0.15 [2.3]	1.4/4.0	20 [3/4]	
RC–A3–6	CLASSROOM 220	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A3–7	RESOURCE ROOM 208	280 (600)	12.8 [55]	29.4 [85]	0.17/42.7	5.47 [18.66]	250(H)x300	82 [180]	71 [160]	0.12 [1.9]	0.8/2.5	20 [3/4]	
RC–A3–8	ART ROOM 206	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A3–9	ART ROOM 205	378 (800)	12.8 [55]	29.4 [85]	0.17/42.1	7.36 [25.12]	320(H)x350	82 [180]	71 [160]	0.16 [2.6]	0.8/2.3	20 [3/4]	
RC–A3–10	FAMILY STUDIES 204	425 (900)	12.8 [55]	29.4 [85]	0.25/61.1	8.62 [29.43]	300(H)x350	82 [180]	71 [160]	0.2 [3.2]	0.9/2.5	20 [3/4]	
RC–A3–11	CLASSROOM 203	472 (1000)	12.8 [55]	29.4 [85]	0.33/81.8	9.28 [31.68]	320(H)x350	82 [180]	71 [160]	0.2 [3.2]	0.8/2.4	20 [3/4]	
RC–A3–12	STAFF ROOM 209	94 (200)	12.8 [55]	29.4 [85]	0.02/3.9	1.82[6.22]	250(H)x300	82 [180]	71 [160]	0.06 [0.9]	0.3/0.8	20 [3/4]	
RC–A3–13	STAFF ROOM 210	280 (600)	12.8 [55]	29.4 [85]	0.17/42.7	5.47 [18.66]	250(H)x300	82 [180]	71 [160]	0.12 [1.9]	0.8/2.5	20 [3/4]	
RC–A3–14	STAFF ROOM 310	150 (300)	12.8 [55]	29.4 [85]	0.03/7.9	2.81 [9.59]	250(H)x300	82 [180]	71 [160]	0.06 [0.9]	0.3/1	20 [3/4]	

SCHEDULE OF RE–HEAT COILS

TAG	MANUFACTURER	MODEL	COIL (MBH)	AIR FLOW (CFM)	APD (IN/WG)	SIZE (HxL)	NO. ROWS	AIR TEMP. (°F)		WATER TEMP. (°F)		WATER FLOW (GPM)	W.P.D. (FT)	REMARKS
								E.A.T.	L.A.T.	E.W.T.	L.W.T.			
DOAS–1														
HC–D1–1	ENGINEERED AIR	–	41.21	1260	0.13	305(H)x762	1	70	100	180	160	4.0	0.8	
HC–D1–2	ENGINEERED AIR	–	23.57	700	0.1	380(H)x355	1	70	100	180	160	2.3	1.5	
HC–D1–3	ENGINEERED AIR	–	41.21	1260	0.13	305(H)x762	1	70	100	180	160	4.0	0.8	
HC–D1–4	ENGINEERED AIR	–	46.11	1410	0.15	305(H)x762	1	70	100	180	160	5.0	0.8	
HC–D1–5	ENGINEERED AIR	–	35.52	1050	0.15	305(H)x560	1	70	100	180	160	3.4	1.0	
DOAS–2														
HC–D2–1	ENGINEERED AIR	–	41.21	1260	0.13	305(H)x762	1	70	100	180	160	4.0	0.8	
HC–D2–2	ENGINEERED AIR	–	17.59	530	0.1	230(H)x460	1	70	100	180	160	1.8	0.4	
HC–D2–3	ENGINEERED AIR	–	41.21	1260	0.13	305(H)x762	1	70	100	180	160	4.0	0.8	
HC–D2–4	ENGINEERED AIR	–	26.16	800	0.12	305(H)x460	1	70	100	180	160	2.7	1.2	
DOAS–3														
HC–D3–1	ENGINEERED AIR	–	35.01	1060	0.16	305(H)x560	1	70	100	180	160	3.2	0.9	
HC–D3–2	ENGINEERED AIR	–	14.2	430	0.1	230(H)x380	1	70	100	180	160	1.5	0.3	
HC–D3–3	ENGINEERED AIR	–	35.01	1060	0.16	305(H)x560	1	70	100	180	160	3.2	0.9	
ERV–1														
HC–E1–1	ENGINEERED AIR	–	32.7	1500	0.13	350(H)x500	1	55	75	180	160	3.3	3.1	
HC–E1–2	ENGINEERED AIR	–	32.7	1500	0.13	350(H)x500	1	55	75	180	160	3.3	3.1	
ERV–2														
HC–E2–1	ENGINEERED AIR	–	7.61	470	0.09	250(H)x300	1	60	75	180	160	0.9	0.6	
HC–E2–2	ENGINEERED AIR	–	2.45	150	0.02	230(H)x250	1	60	75	180	160	0.3	0.5	
FC–1														
HC–FC1–1	ENGINEERED AIR	–	51.68	1300	0.28	300(H)x600	2	60	95	180	160	5.0	0.8	
FC–2														
HC–FC2–1	ENGINEERED AIR	–	15.4	400	0.2	230(H)x250	1	60	95	180	160	1.5	0.8	
FC–3														
HC–FC3–1	ENGINEERED AIR	–	43.88	1150	0.17	300(H)x600	1	60	95	180	160	4.5	0.8	
FC–4														
HC–FC4–1	ENGINEERED AIR	–	30.27	800	0.13	250(H)x530	1	60	95	180	160	4.2	4.2	
FC–5

SCHEDULE OF INDOOR AIR HANDLING UNITS WITH REMOTE CONDENSER

TAG	LOCATION	SERVING	SUPPLY FAN PERFORMANCE				RETURN FAN PERFORMANCE				MIN. OUTSIDE AIR (CFM)	DX COOLING PERFORMANCE				HEAT EXCHANGER/RECOVERY						HEATING						POWER SUPPLY (V/PH/Hz)	MCA (AMPS)	MOCP (AMPS)	WEIGHT KG [LBS]	EQUIPMENT SIZE (LxWxH) MM	REMARKS
			AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP	AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP		TOTAL CAP. kW [MBH]	SENS. CAP. kW [MBH]	EDBT/EWBT °C [°F]	LDBT/LWBT °C [°F]	SUMMER EDBT/EWBT °C [°F]	SUMMER LDBT/LWBT °C [°F]	WINTER EDBT/EWBT °C [°F]	WINTER LDBT/LWBT °C [°F]	EFFECTIVENESS (E) SENSIBLE/LATENT SUMMER	EFFECTIVENESS (E) SENSIBLE/LATENT WINTER	TOTAL CAP. kW [MBH]	GLYCOL FLOW L/S [GPM]	GLYCOL PD KPa [FT]	GLYCOL TEMP. IN °C [°F]	GLYCOL TEMP. OUT °C [°F]	AIR EDBT °C [°F]	AIR LDBT °C [°F]					
AHU-1	MECH. ROOM 133	CLASSROOMS	4100	375 [1.5]	2682	7.5	2600	250 [1.0]	2584	3.0	1740	39.3 [134]	28.7 [98]	25/18.3 [77/65]	EDBT/EWBT	12.6/12.4 [54.7/54.3]	LDBT/LWBT	32.2/22.8 [90/73]	26/18.6 [78.8/65.4]	−20/−20.6 [−4/−5]	6.3/2.2 [43.3/35.9]	74.9/70.9	74.9/54.4	22 [75]	0.44 [7]	2.69 [0.9]	82.2 [180]	69.4 [156.9]	4.4 [40]	13.8 [56.9]	575/3/60	18.6	25	3681 [8100]	4,060x1,220x1,980	C/W VFD, WORK WITH CDU-1; 40% PROPYLENE GLYCOL
AHU-3	MECH. ROOM 304	CLASSROOMS	10300	440 [1.75]	2092	15.0	8400	312 [1.25]	2403	10.0	6070	87.6 [299]	68.3 [233]	25/18.3 [77/65]	EDBT/EWBT	13.3/13.1 [56/55.6]	LDBT/LWBT	32.2/22.8 [90/73]	26/18.6 [78.8/65.4]	−20/−20.6 [−4/−5]	7.7/5.1 [45.8/37.6]	77.3/71.9	77.3/57.3	103 [362]	2.21[35]	6.68 [2.23]	82.2 [180]	70.2 [158.4]	−3.3 [26]	14.2 [57.6]	575/3/60	35.7	50	4500 [9900]	4,800x1,880x2,620	C/W VFD, WORK WITH CDU-3; 40% PROPYLENE GLYCOL

SCHEDULE OF ROOFTOP HEAT PUMP UNITS

TAG	LOCATION	SERVING	SUPPLY FAN PERFORMANCE				RETURN FAN PERFORMANCE				MIN. OUTSIDE AIR (CFM)	HEAT EXCHANGER/RECOVERY								DX COOLING PERFORMANCE				DX HEAT PUMP			SECONDARY HEATING									
			AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP	AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP		SUMMER EDBT/EWBT °C [°F]	SUMMER LDBT/LWBT °C [°F]	WINTER EDBT/EWBT °C [°F]	WINTER LDBT/LWBT °C [°F]	EFFECTIVENESS (E) SENSIBLE/LATENT SUMMER	EFFECTIVENESS (E) SENSIBLE/LATENT WINTER	TOTAL CAP. kW [MBH]	SENS. CAP. kW [MBH]	EDBT/EWBT	LDBT/LWBT	TOTAL CAPACITY kW [MBH]	AMBIENT DB °C [°F]	COP@ 47°F	COP@ 17°F	GAS INPUT kW [MBH]	GAS OUTPUT kW [MBH]	GLYCOL TOTAL CAP. kW [MBH]	GLYCOL FLOW L/S [GPM]	GLYCOL PD KPa [FT]	GLYCOL TEMP IN °C [°F]	GLYCOL TEMP OUT °C [°F]	AIR EDBT °C [°F]	AIR LDBT °C [°F]					
RTU-1	DAYCARE ROOF	KINDERGARTEN	6750	375 [1.5]	2713	10.0	5300	250 [1.0]	1866	7.5	2600	32.2/22.8 [90/73]	25.7/18.3 [78.2/64.9]	−20/−20.6 [−4/−5]	6.9/2.7 [44.5/36.8]	79/73.2	79/56.2	56.6 [193]	44.5 [152]	25/18.3 [77/65]	13.4/13.2 [56.1/55.7]	51.6 [176]	8.3 [47]	3.31	2.36	58.6 [200]	46.9 [160]	—	—	—	—	—	—	—	575/3/60	51.7	60	4977 [10950]	5,620x2,440x2,005	C/W 4-WAY VALVE ,VFD
RTU-2	ADDITION ROOF	CAFETERIA	10500	312 [1.25]	1556	15.0	10300	250 [1.0]	1326	10.0	4430	32.2/22.8 [90/73]	25.7/18.4 [78.5/65.2]	−20/−20.6 [−4/−5]	7.4/2.9 [45.3/37.3]	76.7/70.8	76.7/56.7	87.9 [300]	68.9 [253]	25/18.3 [77/65]	13.5/13.2 [56.2/55.7]	—	—	—	—	—	—	—	168.7 [576]	3.22 [51]	12.69 [4.25]	82.2 [180]	68.7 [155.7]	4.4 [40]	32.6 [90.8]	575/3/60	66.2	80	5113 [11250]	7,700x3,100x2,050	C/W 4-WAY VALVE ,VFD

SCHEDULE OF DOAS HEAT PUMP UNITS

TAG	LOCATION	SERVING	SUPPLY FAN PERFORMANCE				RETURN FAN PERFORMANCE				HEAT EXCHANGER/RECOVERY							DX COOLING PERFORMANCE				DX HEAT PUMP				SECONDARY HEATING			POWER SUPPLY (V/PH/Hz)	MCA (AMPS)	MOCP (AMPS)	WEIGHT KG [LBS]	EQUIPMENT SIZE (LxWxH) MM	REMARKS
			AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP	AIR FLOW (CFM)	E.S.P. Pa [IN]	SPEED RPM	HP	SUMMER EDBT/EWBT °C [°F]	SUMMER LDBT/LWBT °C [°F]	WINTER EDBT/EWBT °C [°F]	WINTER LDBT/LWBT °C [°F]	EFFECTIVENESS (E) SENSIBLE/LATENT SUMMER	EFFECTIVENESS (E) SENSIBLE/LATENT WINTER	TOTAL CAP. kW [MBH]	SENS. CAP. kW [MBH]	EDBT/EWBT	LDBT/LWBT	TOTAL CAPACITY kW [MBH]	AMBIENT DB °C [°F]	COP@ 47°F	COP@ 17°F	GAS INPUT kW [MBH]	GAS OUTPUT kW [MBH]	TOTAL CAP. kW [MBH]	FLOW L/S [GPM]	PD KPa [FT]					
DOAS-1	ADDITION ROOF	SCIENCE ROOMS	5680	375 [1.5]	2527	7.5	5900	250 [1.0]	1219	7.5	32.2/22.8 [90/73]	25.7/18.6 [78.8/65.5]	−20/−20.6 [−4/−5]	6.7/2.5 [44.4/36.6]	74.5/68.5	74.5/55.1	29 [99]	29 [99]	26/18.6 [78.8/65.5]	17/15.5 [62.5/60]	25.5 [87]	8.3 [47]	3.42	2.35	175.8 [600]	140.7 [480]	4431 [9750]	6,830x3,070x2,000	C/W 4-WAY VALVE ,VFD					
DOAS-2	ADDITION ROOF	SCIENCE ROOMS	3850	312 [1.25]	2014	5.0	4000	250 [1.0]	1480	5.0	32.2/22.8 [90/73]	25.7/18.6 [79/65.6]	−20/−20.6 [−4/−5]	6.7/2.5 [44.4/36.4]	73.4/67.2	73.4/54.6	20.2 [69]	20.2 [69]	26.1/18.7 [79/65.6]	16.8/15.1 [62.2/59.2]	21.7 [74]	8.3 [47]	3.4	2.3	117.2 [400]	93.8 [320]	4136 [9100]	6,450x2,565x1,830	C/W 4-WAY VALVE ,VFD					
DOAS-3	ADDITION ROOF	SCIENCE ROOMS	2550	250 [1.0]	3065	5.0	2700	188 [0.75]	1672	3.0	32.2/22.8 [90/73]	25.9/18.5 [78.2/65]	−20/−20.6 [−4/−5]	7.8/2.5 [46.1/37.8]	76.8/72.6	78.6/37.4	17.6 [60]	14.4 [49]	25.7/18.5 [78.2/65]	25.7/18.5 [78.2/65]	18.17 [62]	8.3 [47]	3.4	2.28	73.3 [250]	58.6 [200]	3990 [8780]	6,500x2,565x1,830	C/W 4-WAY VALVE ,VFD					

SCHEDULE OF HEAT RECOVERY VENTILATORS

TAG	LOCATION	SERVING	SUPPLY FAN		EXHAUST FAN		ELECTRIC PREHEAT				HEAT EXCHANGER/RECOVERY SUMMER		HEAT EXCHANGER/RECOVERY WINTER		HEAT EXCHANGER/RECOVERY EFFECTIVENESS (%)		UNIT POWER		WEIGHT UNIT KG [LBS]	WEIGHT PREHEAT COIL KG [LBS]	EQUIPMENT SIZE (LxWxH) MM	PREHEAT COIL SIZE (HxWxL) MM	REMARKS
			AIR FLOW (CFM)	E.S.P. Pa [IN]	AIR FLOW (CFM)	E.S.P. Pa [IN]	kW [MBH]	POWER SUPPLY (V/PH/MCA)	MOCP (A)	EDBT/EWBT °C [°F]	LDBT/LWBT °C [°F]	EDBT/EWBT °C [°F]	LDBT/LWBT °C [°F]	EDBT/EWBT °C [°F]	LDBT/LWBT °C [°F]	SUMMER	WINTER	POWER SUPPLY (V/PH/MCA)	MOCP (A)					
ERV-1	EXISTING LOWER ROOF	EXISTING CLASSROOMS	3000	250 [1.0]	3000	187 [0.75]	25.0 [85.3]	208/3/86.74	90	−23.3/−23.3 [−10]/[−10]	−14.0/−15.3 [6.8]/[4.4]	32.2/22.7 [90]/[73]	26.2/19.1 [79.1]/[66.4]	−14.0/−15.3 [6.8]/[4.4]	13.55/8.0 [56.4]/[46.7]	65.3	76.3	208/3/18.9	25	635 [1400]	–	1565x1665x2405	–	UNIT SHELL BE BUILD WITH OUTDOOR AND EXHAUST MOTORIZED DAMPERS
ERV-2	LOWER ROOF	OFFICES	1500	200 [0.8]	1500	125 [0.5]	15.0 [51.2]	208/3/52.04	60	−23.3/−23.3 [−10]/[−10]	−14.0/−15.3 [6.8]/[4.4]	32.2/22.7 [90]/[73]	25.5/18.2 [77.9]/[64.8]	−14.0/−15.3 [6.8]/[4.4]	15.6/9.9 [60.1]/[49.8]	79.4	84.2	208/3/19.6	25	617 [1360]	–	1565x1665x2405	–	UNIT SHELL BE BUILD WITH OUTDOOR AND EXHAUST MOTORIZED DAMPERS

SCHEDULE OF HEAT PUMPS

TAG	MANUFACTURER	MODEL	COOLING CAP. (TONS [MBH])	HEATING CAP. (MBTU/HR)	REFRIGERANT	CONNECTION SIZES RL (MM [IN])	CONNECTION SIZES RG (MM [IN])	POWER SUPPLY (V/PH/Hz)	MCA (A)	MOCP (A)	DIMENSIONS LxWxH (MM)	WEIGHT (KG [LB])	REMARKS
CDU- 1	ENGINEERED AIR	CUE123	11.5 [138]		R-454B	3x12 [3x1/2"]	3x22.2 [3x7/8"]	575/3/60	22.5	25	2,000x1,050x1,350	568 [1250]	WORK WITH AHU-1
CDU- 2	MITSUBISHI	PUY-A12NKA8	1 [12]	N/A	R-410A	6.35 [1/4"]	12.7 [1/2"]	208/230/1/60	17.0	28	870x360x630	41 [92]	WORK WITH AC-2
CDU- 3	ENGINEERED AIR	CU243	25 [302]		R-454B	3x15.8 [3x5/8"]	3x28.5 [3x1 1/8]	575/3/60	35	40	2,895x1,050x1,700	818 [1800]	WORK WITH AHU-3
CDU- 4	MITSUBISHI	PUHY-P72TNU-A-TH(-BS)	6 [72]	80	R-410A	9.52 [3/8]	22.2 [7/8"]	208/3/60	24.0	40	920x740x1818	213 [470]	WORK WITH AC-3, 4
CDU- 5	MITSUBISHI	PUY-A12NKA8	1 [12]	N/A	R-410A	6.35 [1/4"]	12.7 [1/2"]	208/230/1/60	17.0	28	870x360x630	41 [92]	WORK WITH AC-5
CDU- 6	MITSUBISHI	PUY-A12NKA8	1 [12]	N/A	R-410A	6.35 [1/4"]	12.7 [1/2"]	208/230/1/60	17.0	28	870x360x630	41 [92]	WORK WITH AC-1
CDU- 7	MITSUBISHI	PUHY-P120TNU-A1	10 [120]	82.4	R-410A	9.52 [3/8]	28.58 [1 1/8]	208/3/60	50	60	740x1240x1818	275 [605]	WORK WITH OFFICE FC'S 1-5
CDU- 8A	MITSUBISHI	PUHYP96TSKMU-A	8 [96]	N/A	R-410A	NOTE 3	NOTE 3	208/230/3/60	34/31	40	N/A	N/A	REUSED EXISTING UNIT WORK WITH EXIST. AC-6,7,8,9,10,11,12
CDU- 8B	MITSUBISHI	PUHYP216TSKMU-A	10 [120]	N/A	R-410A	NOTE 3	NOTE 3	208/230/3/60	45/42	50	N/A	N/A	REUSED EXISTING UNIT WORK WITH EXIST. AC-6,7,8,9,10,11,12

NOTE:

1. FINAL REFRIGERANT LINES SIZING BY MANUFACTURER, BASED ON FINAL ROUTING AND LENGTH OF PIPE.
2. EQUIPMENT TO BE SUPPLIED WITH FULL REFRIGERANT CHARGE, SUFFICIENT FOR THE SYSTEM VOLUME, INCLUDING PIPING.
3. FOR CDU-2,4,5,6,7,8 REFRIGERANT PIPING AND CONTROL DIAGRAMS REFER TO DWG. M-804

SCHEDULE OF INDOOR AIR CONDITIONING EQUIPMENT

TAG	TYPE	MANUFACTURER	MODEL	COOLING CAP. (TONS [MBH])	HEATING CAP. (MBTU/HR)	AIR FLOW (CFM)	CONNECTION SIZES RL (MM [IN])	CONNECTION SIZES RG (MM [IN])	DRAIN (MM [IN])	POWER SUPPLY (V/PH/Hz)	MCA (A)	MOCP (A)	DIMENSIONS LxWxH (MM)	WEIGHT (KG [LB])	REMARKS
AC- 1	WALL MOUNTED	MITSUBISHI	PKA-A12LA1-TH	1 [12]	N/A	385	6.35 [1/4"]	12.7 [1/2"]	16 [5/8"]	208/230/1/60	1.0	15	900x240x300	12.7 [28]	C/W DRAIN PUMP, PIPES COVER
AC- 2	WALL MOUNTED	MITSUBISHI	PKA-A12LA1-TH	1 [12]	N/A	385	6.35 [1/4"]	12.7 [1/2"]	16 [5/8"]	208/230/1/60	1.0	15	900x240x300	12.7 [28]	C/W DRAIN PUMP, PIPES COVER
AC- 3	CEILING MOUNTED	MITSUBISHI	PLFY-EP36NEMU-E	3 [36]	40	1,095	9.5 [3/8"]	16 [5/8"]	32 [1 1/4"]	208/230/1/60	0.92	15	840x840x300	30 [66]	C/W DRAIN PUMP
AC- 4	CEILING MOUNTED	MITSUBISHI	PLFY-EP36NEMU-E	3 [36]	40	1,095	9.5 [3/8"]	16 [5/8"]	32 [1 1/4"]	208/230/1/60	0.92	15	840x840x300	30 [66]	C/W DRAIN PUMP
AC- 5	WALL MOUNTED	MITSUBISHI	PKA-A12LA1-TH	1 [12]	N/A	385	6.35 [1/4"]	12.7 [1/2"]	16 [5/8"]	208/230/1/60	1.0	15	900x240x300	12.7 [28]	C/W DRAIN PUMP, PIPES COVER
AC- 6	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P30NKMU-E2	2.5 [30]	34.0	920	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	0.63	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC- 7	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P30NKMU-E2	2.5 [30]	34.0	920	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	0.63	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC- 8	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P100VKM-E	3.2 [38.2]	42.6	918	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	NOTE 2	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC- 9	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P24NKMU-E2	2 [24]	27	920	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	0.63	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC-10	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P24NKMU-E2	2 [24]	27	920	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	0.63	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC-11	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P100VKM-E	3.2 [38.2]	42.6	918	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	NOTE 2	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
AC-12	EXIST. WALL MOUNTED	MITSUBISHI	PKFY-P100VKM-E	3.2 [38.2]	42.6	918	9.5 [3/8"]	15.9 [5/8]	16 [5/8"]	208/230/1/60	NOTE 2	NOTE 2	1170x295x365	21 [46]	REUSED EXISTING, PROVIDE NEW DRAIN PUMP & PIPES COVER
FC- 1	NOTE 1	MITSUBISHI	PEFY-P36NMHU-E2	3.0 [36.00]	22.3	1,300	9.5 [3/8]	15.88 [5/8]	32 [1 1/4"]	208/60/1	4.16	15	1195x900x380	69 [153]	C/W FILTER BOX & LONG LIFE FILTER
FC- 2	NOTE 1	MITSUBISHI	PEFY-P12NMAU-E4	1.0 [12.00]	7.5	400	6.35 [1/4]	12.7 [1/2]	32 [1 1/4"]	208/60/1	2.13	15	732x700x250	21 [47]	C/W FILTER BOX & LONG LIFE FILTER
FC- 3	NOTE 1	MITSUBISHI	PEFY-P36NMHU-E2	3.0 [36.00]	22.3	1,150	9.5 [3/8]	15.88 [5/8]	32 [1 1/4"]	208/60/1	4.16	15	1195x900x380	69 [153]	C/W FILTER BOX & LONG LIFE FILTER
FC- 4	NOTE 1	MITSUBISHI	PEFY-P24NMAU-E4	2.0 [24.00]	15.1	850	9.5 [3/8]	15.88 [5/8]	32 [1 1/4"]	208/60/1	2.88	15	732x1100x250	30 [67]	C/W FILTER BOX & LONG LIFE FILTER
FC- 5	NOTE 1	MITSUBISHI	PEFY-P24NMAU-E4	2.0 [24.00]	15.1	850	9.5 [3/8]	15.88 [5/8]	32 [1 1/4"]	208/60/1	2.88	15	732x1100x250	30 [67]	C/W FILTER BOX & LONG LIFE FILTER

NOTE:
NOTE 1 – CEILING MOUNTED, CONCEALED DUCTED
NOTE 2 – NO DATA

SCHEDULE OF ROOF TOP UNITS

TAG	MANUFACTURER	MODEL	SUPPLY AIR CFM	OUTSIDE AIR CFM	E.S.P. (" WC)	HEATING CAPACITY INPUT, MBH	HEATING CAPACITY OUTPUT, MBH	COOLING (MBH)	SUPPLY FAN MOTOR HP	SUPPLY FAN MOTOR VOLTAGE	SUPPLY FAN MOTOR RPM	EXHAUST FAN MOTOR HP	EXHAUST FAN MOTOR VOLTAGE	EXHAUST FAN MOTOR RPM	FLA	MCA	UNIT WEIGHT (LBS)	REMARKS
RTU-5	AAON	RNA-025-3-0-GAAY-V0-21-000-A	9,800	2,450	1.0	540.0	437.4	281.5	15	208/3/60	1760	10	208/3/60	1760	164	176	3277	C/W CURB ADAPTER
RTU-6	AAON	RN-015-3-0-GAAY-V0-21-000-A	6,000	1,500	1.0	293.0	236.9	179.7	5	208/3/60	1760	3	208/3/60	1760	86	93	2123	C/W CURB ADAPTER
RTU-7	AAON	RN-006-3-0-GABY-V0-21-000-A	2,700	400	0.7	150.0	121.5	70.9	2	208/3/60	1760	2	208/3/60	1760	42	47	1310	C/W CURB ADAPTER
RTU-8	AAON	RN-008-3-0-GAAY-V0-21-000-A	3,000	900	0.7	210.0	170.1	93.7	2	208/3/60	1760	2	208/3/60	1760	48	54	1380	C/W CURB ADAPTER
RTU-9	AAON	RQ-005-3-0-GAAY-V0-21-000-A	2,200	450	0.75	100.0	81.0	60.2	2	208/3/60	1760	1	208/3/60	1760	35	40	773	C/W CURB ADAPTER

SCHEDULE OF MAKE-UP AIR UNIT

TAG	LOCATION	SERVING	FAN PERFORMANCE SUPPLY AIR CFM	FAN PERFORMANCE E.S.P. Pa [" W.G.]	FAN PERFORMANCE HP	FAN PERFORMANCE RPM	HEATING PERFORMANCE (GAS) INPUT kW [MBH]	HEATING PERFORMANCE (GAS) OUTPUT kW [MBH]	POWER SUPPLY (V/PH/Hz)	MCA/MOCP (AMP)	WEIGHT KG [LBS]	EQUIPMENT SIZE (LxWxH) MM	REMARKS
MAU-1	NEW ROOF	CORRIDORS	3800	249 [1.00]	5.0	1331	117 [400]	94 [320]	575/3/60	8.5/15	1340 [2500]	1800x1400x1150	
MAU-2	NEW ROOF	KITCHEN HOODS	3731	249 [1.00]	3.0	1196	117 [400]	94 [320]	208/3/60	15/20	792 [1747]	3050x2290x1150	HARD WIRED INTERLOCK WITH KITCHEN HOOD EXHAUST FAN KEF-1

SCHEDULE OF GREASE TRAPS

TAG	MANUFACTURER MODEL	FLOW RATE LPM [GPM]	GREASE CAP. KG [LBS]	DIMENSIONS LxWxH (MM)	WEIGHT KG [LBS]	REMARKS
GI-1	WATTS WD-135	2.2 (35)	31.8 (70)	762x457x508	–	SERVES FAMILY STUDIES 204, HEAVY DUTY LID, SS 304
GI-2	WATTS WD-110	0.63 (10)	9.1 (20)	552x356x368	–	SERVES KITCHEN 149, HEAVY DUTY LID, SS 304

NOTE: C/W USER NOTIFICATION SYSTEM & ELECTRONIC GREASE LEVEL SENSOR

GREASE TRAP 'GI-1' SIZING

ITEM No.	DESCRIPTION	DIMENSIONS (LxWxD)IN	VOLUME (L) V	FLOW (L/S) PD	SELECTION
1	2 COMPARTMENT SINK	5x(8x8x16)x2	168		
2	COMMERCIAL DISHWASHER	2x(4.0 GPM)			
	TOTAL		168		WD-135, 35 GPM, 762(L)x457(W)x508(H) (MM)

NOTE: DRAIN DOWN TIME (DDT) = 120 SECOND = 2 MIN
Q=0.75xV/DDT+PD=0.75x(168/120)=1.05L/S=16.6GPM=8.0GPM=24.6GPM

GREASE TRAP 'GI-2' SIZING

ITEM No.	DESCRIPTION	DIMENSIONS (LxWxD)IN	VOLUME (L) V	FLOW (L/S) PD	SELECTION
1	1 COMPARTMENT SINK	1x(8x8x16)	16.78		
2	3 COMPARTMENT SINK	1x(8x8x16)x3	50.34		
	TOTAL		67		WD-110, 10 GPM, 552(L)x356(W)x368(H) (MM)

NOTE: DRAIN DOWN TIME (DDT) = 120 SECOND = 2 MIN
Q=0.75xV/DDT+PD=0.75x(67/120)=0.419L/S=6.64GPM

SCHEDULE OF ACID NEUTRALIZERS

TAG	MANUFACTURER	MODEL	LOCATION	SIZE DIAxH IN [MM]	INLET/OUTLET IN [MM]	CAPACITY US.GAL [L]	REMARKS
AN-1	WATTS	T6-40-155	MECHANICAL RM 131	30#x50 [762#x1270]	4.0 [100]	155 [587]	CYLINDRICAL TANK, ON-FLOOR, 1" THICK PLASTIC LID, WITH 1/8" THICK SCORIATED ALUMINUM COVER, BOLTED & GASKETED, AND SEDIMENT INTERCEPTOR
AN-2	WATTS	T6-40-90	STORAGE RM 219A	26#x42 [660#x1067]	4.0 [100]	90 [341]	CYLINDRICAL TANK, ON-FLOOR, 1" THICK PLASTIC LID, WITH 1/8" THICK SCORIATED ALUMINUM COVER, BOLTED & GASKETED, AND SEDIMENT INTERCEPTOR
AN-3	WATTS	T6-40-90	MECHANICAL RM 134	26#x42 [660#x1067]	4.0 [100]	90 [341]	CYLINDRICAL TANK, ON-FLOOR, 1" THICK PLASTIC LID, WITH 1/8" THICK SCORIATED ALUMINUM COVER, BOLTED & GASKETED, AND SEDIMENT INTERCEPTOR

PLUMBING FIXTURE SCHEDULE

REF.	FIXTURE NAME	DCW	DHW	DRAIN	VENT
DW-1	DISH WASHER	–	12	40	40
EW-1	EMERGENCY EYE WASH STATION	20	20	40	40
ES-1	EMERGENCY SHOWER STATION	32	32	50	40
FH-1	CHEMICAL FUME HOOD	12	12	40	40
FD	FLOOR DRAIN	–	–	75	40
FFD	FUNNEL FLOOR DRAIN	–	–	75	40
L-1	LAVATORY, WALL MOUNTED	12	12	40	40
L-2	LAVATORY, WALL MOUNTED, BARRIER FREE	12	12	40	40
L-3	LAVATORY, COUNTER TOP, DROP IN	12	12	40	40
RD-1	ROOF DRAIN	–	–	75	–
S-1	SINK, KITCHEN, SINGLE	12	12	40	40
S-2	SINK, KITCHEN, SINGLE, DRINKING FOUNTAIN	12	12	40	40
S-3	SINK, KITCHEN, DOUBLE	12	12	40	40
S-4	SINK, KITCHEN, TRIPLE	12	12	40	40
S-5	SINK, LAUNDRY TUB	12	12	40	40
S-6	SINK, SCIENCE STUDENT, SINGLE	12	12	40	40
S-7	SINK, SCIENCE STUDENT, SINGLE, BARRIER FREE	12	12	40	40
S-8	SINK, SCIENCE PREP, SINGLE	12	12	40	40
S-9	MOP SINK, FLOOR MOUNTED	20	20	40	40
W-1	CLOTHES WASHER	12	12	40	40
WC-1	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE	25	–	100	40
WC-2	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, BARRIER FREE	25	–	100	40
WC-3	WATER CLOSET, WALL MOUNTED, FLUSH VALVE	25	–	100	40
WC-4	WATER CLOSET, WALL MOUNTED, FLUSH VALVE, BARRIER FREE	25	–	100	40
WC-5	WATER CLOSET, FLOOR MOUNTED, FLUSH VALVE, SMALL	20	–	100	40
WC-6	WATER CLOSET, FLOOR MOUNTED, FLUSH TANK	20	–	100	40
WC-7	WATER CLOSET, FLOOR MOUNTED, FLUSH TANK, BARRIER FREE	20	–	100	40

* PROVIDE INDIRECTION CONNECT TO FFD

Halton District School Board

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No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale: NTS

consultant: LICENSED PROFESSIONAL ENGINEER G. STRASHUN PROVINCE OF ONTARIO

drawn: E.K./H.T.
last worked on | by
checked: G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
EQUIPMENT SCHEDULES LIST 2 OF 2

reference
project no. 2024-21 | client reference number
sheet no. M-102 00

KEY NOTES:

1. REMOVE THE EXISTING DCW PIPING IN THIS ROOM, INCLUDING WATER METER, IRRIGATION PIPE AND BFPA FOR IRRIGATION. CONTRACTOR TO IDENTIFY ON SITE THE EXTENT OF THE IRRIGATION LINE AND REMOVE.
2. REVISE THE PIPING IN THIS ROOM TO ALLOW FOR THE INSTALLATION OF THE NEW WATER METER, EXISTING BACKFLOW PREVENTOR AND NEW BACKFLOW PREVENTOR FOR THE EXISTING STANDPIPE SYSTEM
3. FOR THE THREE SCIENCE ROOMS THAT GET DEMOLISHED (131, 133 AND 136) REMOVE ALL THE DOMESTIC WATER, GAS AND SANITARY PIPES ABOVE THE GROUND. ANY WATER OR SANITARY PIPES SERVING THE PLUMBING FIXTURES AT THE SECOND FLOOR TO REMAIN ACTIVE. PRIOR TO ANY DEMOLITION, CONTRACTOR TO INVESTIGATE THE EXISTING CONDITION AND EXACT LOCATION OF ALL PIPES. PIPES NOTED ON THE DRAWINGS ARE TAKEN FROM EXISTING DRAWINGS AND MIGHT NOT REFLECT THE "AS BUILT" CONDITION.

   ANY PIPES INCLUDING, WATER, VENT OR SANITARY, LOCATED INSIDE THE EXISTING WALLS THAT ARE TO REMAIN SHOULD BE ABANDONED INSIDE THE WALL AND CAPPED AT BOTH ENDS.

   REMOVE VENTS SERVING EQUIPMENT TO BE DEMOLISHED UP AND THROUGH THE ROOF.

DEMOLITION NOTES:

FOR GENERAL NOTES REFER TO M-201

DCW AND FIRE PHASING

CONTRACTOR TO REMOVE THE EXISTING WATER METER AND RELOCATE TO THE NEW WATER METER. REVISE ALL THE PIPING TO ALLOW FOR THE INSTALLTION OF THE RELOCATED METER, EXISTING BFPA AND A NEW BFPA FOR THE FIRE LINE.

PROVIDE A TEMPORARY FIR LINE FROM THE EXISTING IN THE LINBRARY TO ENSURE CONTINUATION OF SERVICE FOR THE REST OF THE SCHOOL THAT REMAINS ACTIVE.

PROVIDE TEMPORARY 100MM DCW PIPE FROM THE EXISTING LINE IN THE LIBRARY AND CONNECT TO THE EXISTING LINE SERVING THE REST OF THE SCHOOL THAT NEEDS TO REMAIN ACTIVE DURING THIS CONSTRUCTION.

CONTRACTOR TO ENSURE THAT THE TEMPORARY LINES ARE LOCATED WITHIN THE HOARDING ENCLOSURE. PROVIDE INSULATION AS REQUIRED.

CONTRACTOR TO CONFIRM ON SITE PRIOR TO ANY DEMOLITION WORK THE EXACT LOCATION OF THE SERVICES IN THIS AREA. IF ANY OF THE EXISTING SERVICES ARE LOCATED OUTSIDE OF THE HOARDING AREA, ALLOW FOR RELOCATION OF THE RESPECTIVE SERVICES WITHIN THE HOARDING ENCLOSURE. PROVIDE ADDITIONAL INSULATION FOR FOR FREEZE PROTECTION OF THESE SERVICES

EXACT CONNECTION POINT FOR NEW TEMPORARY DCW LINE (DCW-TEMP) TO BE COORDINATED ONSITE.

EXACT ROUTING FOR NEW TEMPORARY DCW LINE (DCW-TEMP) TO BE COORDINATED ONSITE. DCW-TEMP LINE ARE TO BE REMOVED DURING NEW WORK PHASE. REFER TO DRAWING M-207

REMOVE EXISTING WATER METER

RELOCATE EXISTING FIRE HOSE CABINET

REMOVE FIRE HOSE CABINET

RELOCATE EXISTING SIAMESE CONNECTION

REMOVE FIRE HOSE CABINET

EXISTING SCHOOL – FIRST FLOOR – PLUMBING & STANDPIPE SYSTEMS – EXISTING & DEMOLITION WORK
SCALE: 1:100

Halton District School Board

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PROJECT NORTH | TRUE NORTH | scale 1:100

LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO April 2025 G.STRASHUN

drawn E.K./H.T.
field worked on by
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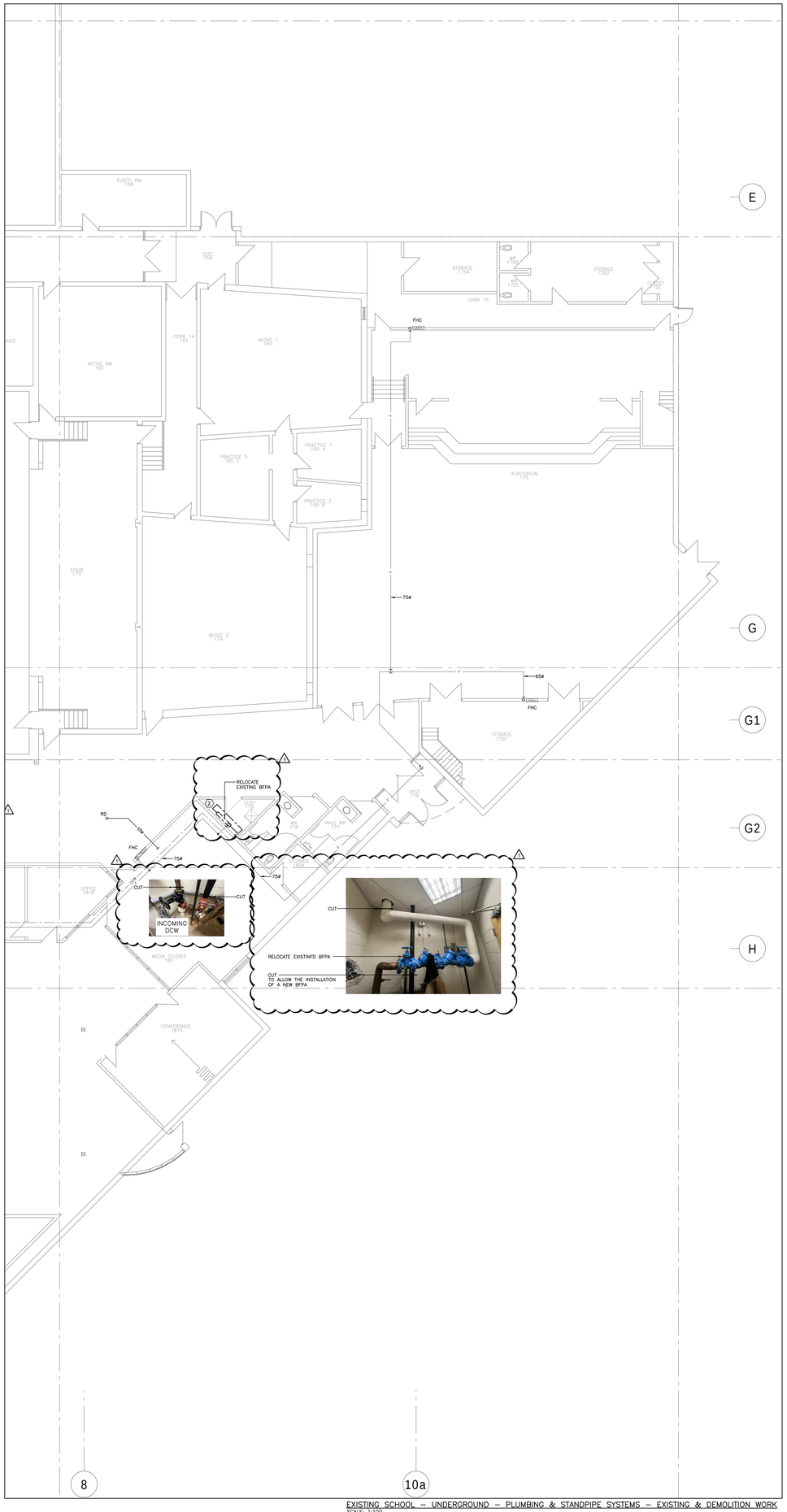
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
EXISTING SCHOOL - FIRST FLOOR - PLUMBING & STANDPIPE SYSTEMS - EXISTING & DEMOLITION WORK. LIST 1 OF 2.

reference
project no. 2024-21
client reference number
sheet no. M-202 00



EXISTING SCHOOL – UNDERGROUND – PLUMBING & STANDPIPE SYSTEMS – EXISTING & DEMOLITION WORK
SCALE: 1:100

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consultant
LICENSED PROFESSIONAL ENGINEER
April 2025
G. STRASHUN
PROVINCE OF ONTARIO

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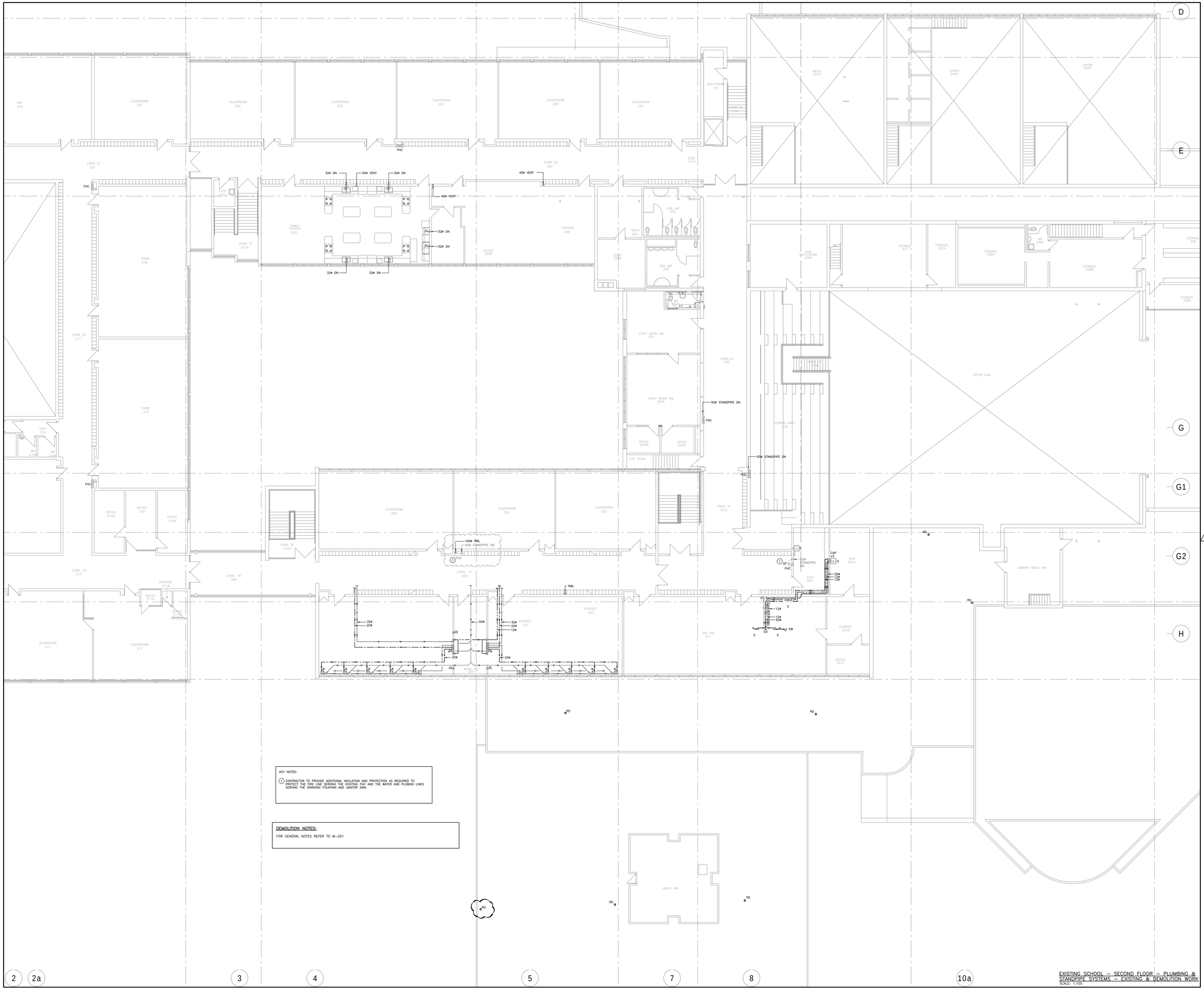
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drawing title
EXISTING SCHOOL - FIRST FLOOR - PLUMBING & STANDPIPE SYSTEMS - EXISTING & DEMOLITION WORK. LIST 2 OF 2.

reference
project no. 2024-21
client reference number
sheet no. M-203 00



KEY NOTES:

1. CONTRACTOR TO PROVIDE ADDITIONAL NSULATION AND PROTECTION AS REQUIRED TO PROTECT THE FIRE LINE SERVING THE EXISTING FHC AND THE WATER AND PLUBING LINES SERVING THE DRINKING FOUNTAIN AND JANITOR SINK.

DEMOLITION NOTES:

FOR GENERAL NOTES REFER TO M-201

EXISTING SCHOOL – SECOND FLOOR – PLUMBING & STANDPIPE SYSTEMS – EXISTING & DEMOLITION WORK
SCALE: 1:100

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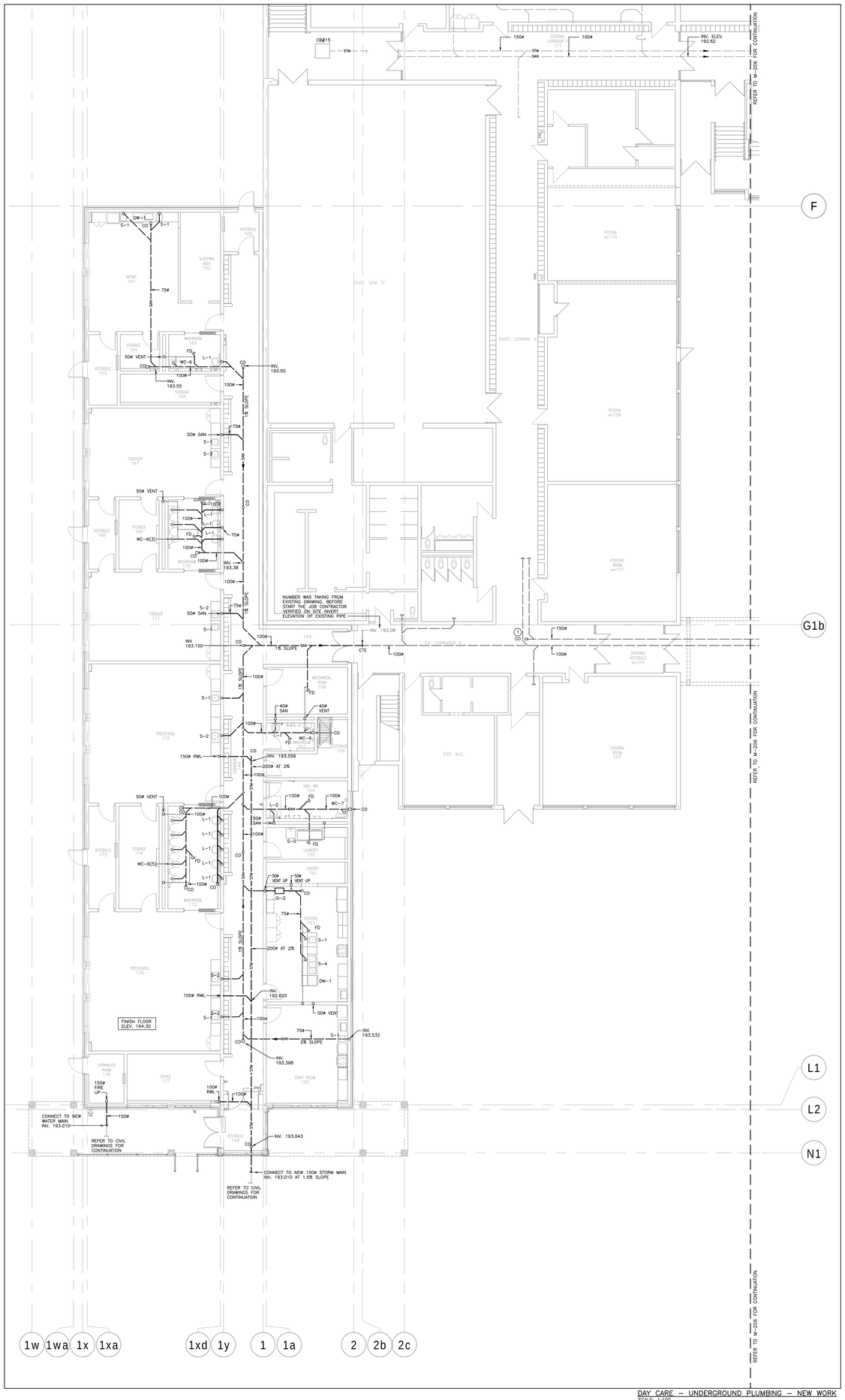
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drawing title
EXISTING SCHOOL - SECOND FLOOR - PLUMBING & STANDPIPE SYSTEMS - EXISTING & DEMOLITION WORK.

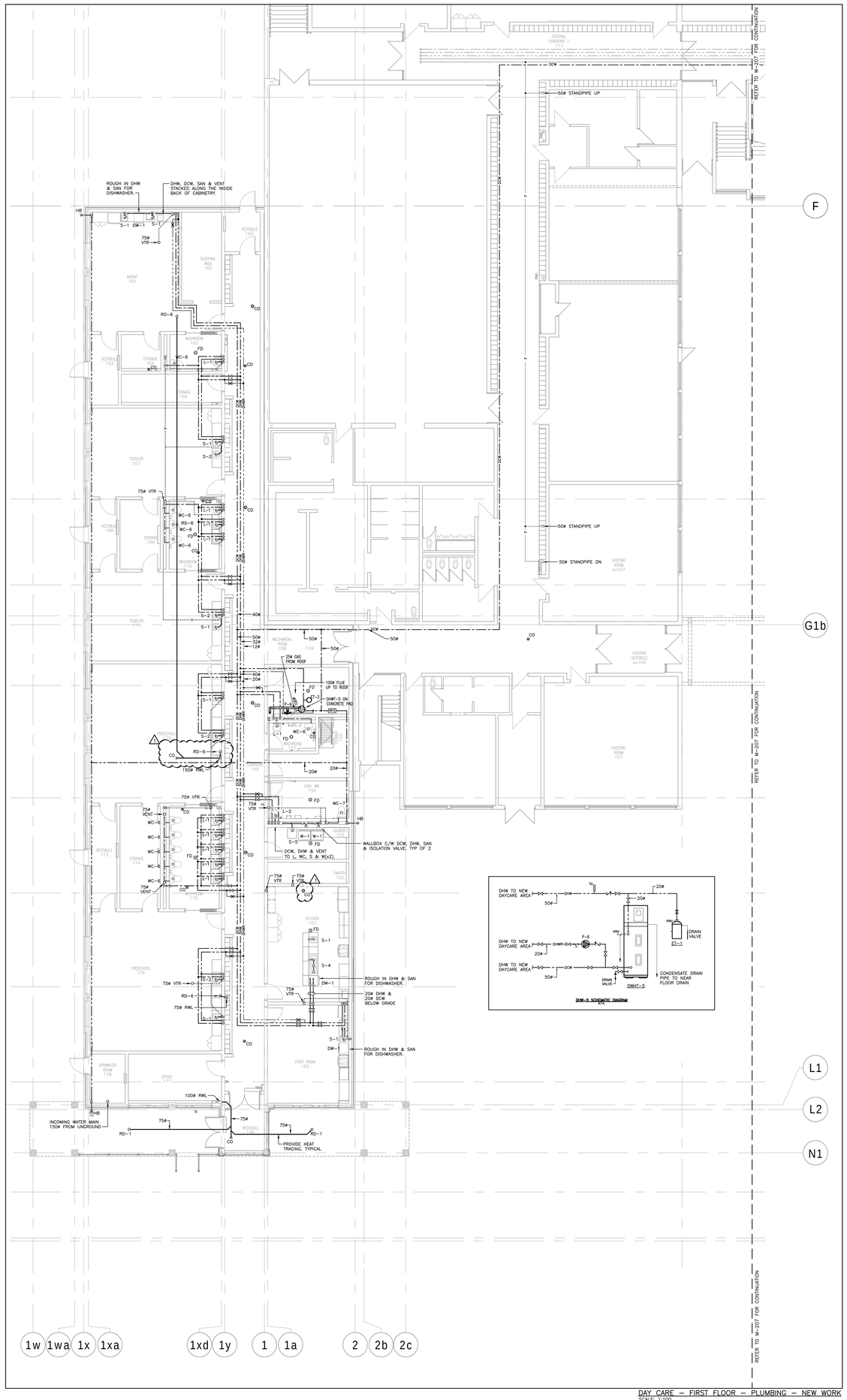
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project no.	client reference number
2024-21	

sheet no.
M-204 00



DAY CARE – UNDERGROUND PLUMBING – NEW WORK
SCALE: 1:100



DHW-5 SCHEMATIC DIAGRAM
ETL

DAY CARE – FIRST FLOOR – PLUMBING – NEW WORK
SCALE: 1:100

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consultant
LICENSED PROFESSIONAL ENGINEER April 2025 G. STRASHUN PROVINCE OF ONTARIO

drawn E.K./H.T.
last worked on TV
checked G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
DAYCARE – UNDERGROUND & FIRST FLOOR – PLUMBING – NEW WORK

reference
project no. 2024-21
client reference number
sheet no. M-20500

REFER TO M-205 FOR CONTINUATION

REFER TO M-205 FOR CONTINUATION

REFER TO M-205 FOR CONTINUATION

INV. ELEV. 192.62

INV. ELEV. 193.01

INV. ELEV. 192.78

INV. 193.710

INV. 192.748

INV. 192.894

INV. 193.275

INV. 192.979

INV. ELEV. 192.17

INV. 192.500

INV. 192.016

INV. 193.442 PROBE DROP

STM INV. 192492
SAN INV. 193242

EX. 300ø STM INV. 192.470

250ø INV. 193.242

CONNECT TO 200ø SANITARY MAIN AT INV=192.00 @ 0.5% SLOPE

CONNECT TO NEW WATER MAIN AT INV=192.000

REFER TO CIVIL DRAWINGS FOR CONTINUATION

CONNECT TO WEEPING DRAINAGE SYSTEM. REFER TO ARCHITECTURAL DRAWING

DROP STORM LINE TO MATCH EXISTING STORM LINE INVERT

KEY NOTES:

1. ALL EXISTING BURIED SANITARY AND STORM FLOOR CLEANOUTS MUST BE EXPOSED, EXTENDED TO THE FINISH FLOOR LEVEL, AND FITTED WITH NEW CLEANOUT ASSEMBLIES.

NEW ADDITION AND DAYCARE FINISH FLOOR INV 194.300

EXISTING ROOM 113 · ROOM 115 · ROOM 117 · ROOM 118 · EXISTING CORRIDOR 7 113 · TECH. DESIGN CLASSROOM 177 · TECH. EQUIPMENT 178 · COMPUTER ENGINEERING CLASSROOM 179 · MECH. ROOM · XXXX 174 · EFMS 175 · EXISTING OFFICE XXX · EXISTING STORAGE XXX · EXISTING CLASSROOM XXX · EXISTING CHANGEROOM XXX · EXISTING GYM OFFICE XXX · EXISTING AUDITORIUM/GYM 126 · EXISTING STAIR 'B' 101 · EXISTING CLASSROOM 106 · EXISTING CLASSROOM 104 · EXISTING STUDENT SUCCESS 103 · EXISTING CLASSROOM 102 · EXISTING STAIR 'A' 122 · CORRIDOR 105 · MALE WASHROOM 140 · FEMALE WASHROOM 146 · STORAGE 139 · KITCHEN 138 · SERVERY 137 · EL. ROOM 136 · STAFF ROOM 134 · BREAKOUT ROOM 135 · CLASSROOM 145 · CORRIDOR 141 · CLASSROOM 144 · CLASSROOM 143 · CAFETERIA 133 · MECHANICAL ROOM 134 · VESTIBULE 142 · MECH. ROOM 130 · JANITOR 130A · ELEVATOR MACHINE ROOM 131 · STAIR 'F' 129 · OFFICE 121 · OFFICE 120 · STUDENT SERVICES 122 · OFFICE 123 · OFFICE 124 · EXISTING LIBRARY · CORRIDOR 114 · TUNNORSAL WASHROOM 117 · WORK SPACE 119 · STORAGE 118 · WORK SPACE 125 · MECHANICAL 118A · CONFERENCE ROOM 129 · ENTRY CORRIDOR 101 · OFFICE 114 · GENERAL OFFICE 102 · OFFICE 113 · CORRIDOR 128 · OFFICE 112 · WAITING 107 · VESTIBULE 100 · OFFICE 103 · VICE PRINCIPAL'S OFFICE 106 · PRINCIPAL'S OFFICE 105 · OFFICE 111 · OFFICE 110 · OFFICE 109 · STAIR 'C' 108

4 · 4a · 4b · 4c · 5a · 5a1 · 5b · 5c · 5c1 · 6a · 7 · 7a · 7b · 8 · 9 · 9b · 10a · 10b · 10c · 10d · 10e · 11

G · G1 · G1a · G1b · G1c · G2 · H · Ha · J · K · K1 · L · M · N · P · Q · R

ADDITION – UNDERGROUND PLUMBING – NEW WORK
SCALE: 1:100

Halton District School Board

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S A B ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
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KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/25
02	ISSUED FOR TENDER	APR/16/25
01	ISSUED FOR PERMIT	APR/01/25

PROJECT NORTH · TRUE NORTH · scale 1:100

consultant: LICENCED PROFESSIONAL ENGINEER · April 2025 · G. STRASHUN · PROVINCE OF ONTARIO

drawn: E.K./H.T.
field worked on: by
checked: G.S.
print date:

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
ADDITION – U/G PLUMBING – NEW WORK

reference

project no. 2024-21 · client reference number

sheet no. M-206 00

REFER TO M-205 FOR CONTINUATION

REFER TO M-205 FOR CONTINUATION

REFER TO M-205 FOR CONTINUATION

50ø STANDPIPE UP

50ø STANDPIPE DN

50ø STANDPIPE DN

50ø STANDPIPE UP

50ø STANDPIPE UP

50ø STANDPIPE UP

TEMPORARY DCW:
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING M-202. PROVIDE A NEW TEMPORARY DOMESTIC COLD WATER (DCW-TEMP) SYSTEM TO MAINTAIN SERVICE TO EXISTING AREAS OF THE SCHOOL OUTSIDE THE PROJECT SCOPE. CONNECT THE NEW DCW-TEMPORARY TO THE EXISTING DCW LINE. MAINTAIN CONTINUOUS WATER SERVICE AT ALL TIMES. ROUTE ALL TEMPORARY PIPING WITHIN HOARDING. PROVIDE HEAT TRACE AND INSULATION ON ALL TEMPORARY PIPING LOCATED IN UNHEATED OR EXPOSED AREAS TO PREVENT FREEZING. RELOCATE ALL TEMPORARY PIPING AS REQUIRED TO MAINTAIN PIPING NOT EXPOSED TO THE ELEMENTS TO WITHIN THE HOARDING AS REQUIRED TO MAINTAIN OPERATION AND PROTECT FROM FREEZING. DO NOT REMOVE EXISTING SERVICES. COORDINATE ALL TIE-INS AND REQUIRED SHUTDOWNS WITH THE SCHOOL, UPON REMOVAL OF HOARDING, RELOCATE SERVICES BACK TO THEIR ORIGINAL LOCATIONS AND REINSTATE TO ORIGINAL CONDITION.

NEW WORK PHASE:
REMOVE THE DCW-TEMPORARY SYSTEM AND REINSTATE ALL EXISTING SERVICES. COORDINATE WITH NEW SERVICES IN THE VICINITY AND ADJUST ROUTING AS REQUIRED. PROVIDE A NEW DOMESTIC COLD WATER (DCW) LINE FOLLOWING THE SAME PATH AS THE DCW-TEMPORARY, BUT INSTALLED AT PROPER HEIGHT IN THE CEILING SPACE. COORDINATE ROUTING AND ELEVATIONS WITH OTHER SERVICES.

REFER TO NOTES ON DRAWING M-202 FOR EXISTING SERVICES AND HORDING.

NEW BFPA TO BE INSTALLED IN RISER

RELOCATED BFPA TO BE INSTALLED IN RISER

NEW WATER METER

CTE
CONNECT NEW 100ø WATER LINE C/W NEW WATER METER & EXISTING BFPA TO 100ø INCOMING DOMESTIC COLD WATER

INCOMING DCW

CTE
CONNECT NEW 100ø WATER LINE FROM WATER METER & BFPA TO EXISTING MAIN WATER PIPE

FIRE

BFPA

PROVIDE NEW WATER METER C/W ACCESSORIES. RECONNECT THE NEW WATER METER TO THE EXISTING INCOMING WATER MAIN LOCATED BELOW THE SLAB. MODIFY EXISTING PIPING AS REQUIRED TO ACCOMMODATE THE RELOCATION. CONNECT THE EXISTING FIRE STANDPIPE SYSTEM AND ASSOCIATED ACCESSORIES, TO THE DOMESTIC WATER SERVICE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS. PROVIDE ALL NECESSARY FITTINGS, SUPPORTS, VALVES, AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO DRAWING M-202 FOR PLAN VIEW. REFER TO DRAWING M-804 FOR WATER METER AND INSTALLATION DETAILS. DISCONNECT EXISTING BFPA AND REINSTALL IT IN RISER AS SHOWN ON DRAWING. INSTALL NEW BFPA FOR THE EXISTING FIRE STANDPIPE SYSTEM. REFER TO SPECIFICATIONS. CONNECT TO FIRE ALARM. EXISTING STANDPIPE CONTROL VALVE AND ISOLATION VALVES OF THE NEW BFPA.

RELOCATED EXISTING SIAMESE CONNECT

SUMP PIT 'SP-1' & SANITARY PIT 'SP-2'. SEE M-804

ADDITION – FIRST FLOOR – PLUMBING & STANDPIPE SYSTEMS – NEW WORK
SCALE: 1:100

Halton District School Board

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PROJECT NORTH

TRUE NORTH

scale 1:100

LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO
April 2025
G.STRASHUN

drawn E.K./H.T.
last worked on by
checked G.S.
print date

BJC architects + assocs. inc.

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HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

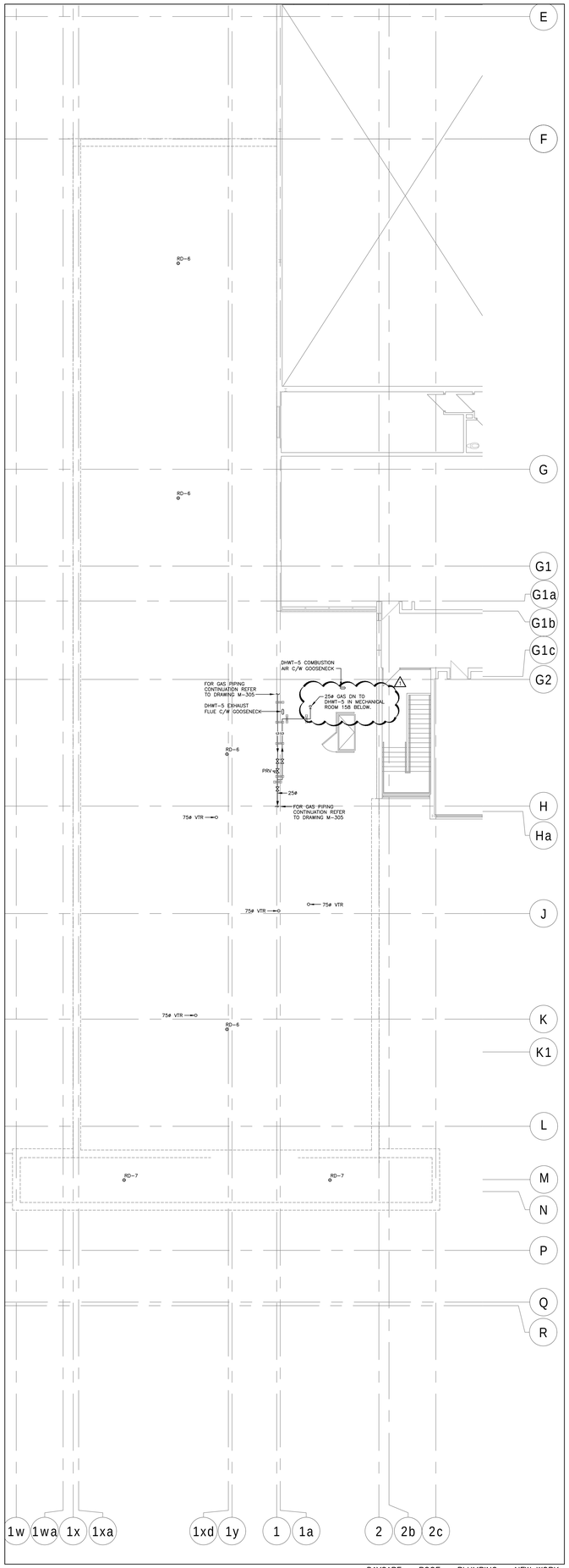
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
ADDITION – FIRST FLOOR – PLUMBING & STANDPIPE SYSTEM – NEW WORK

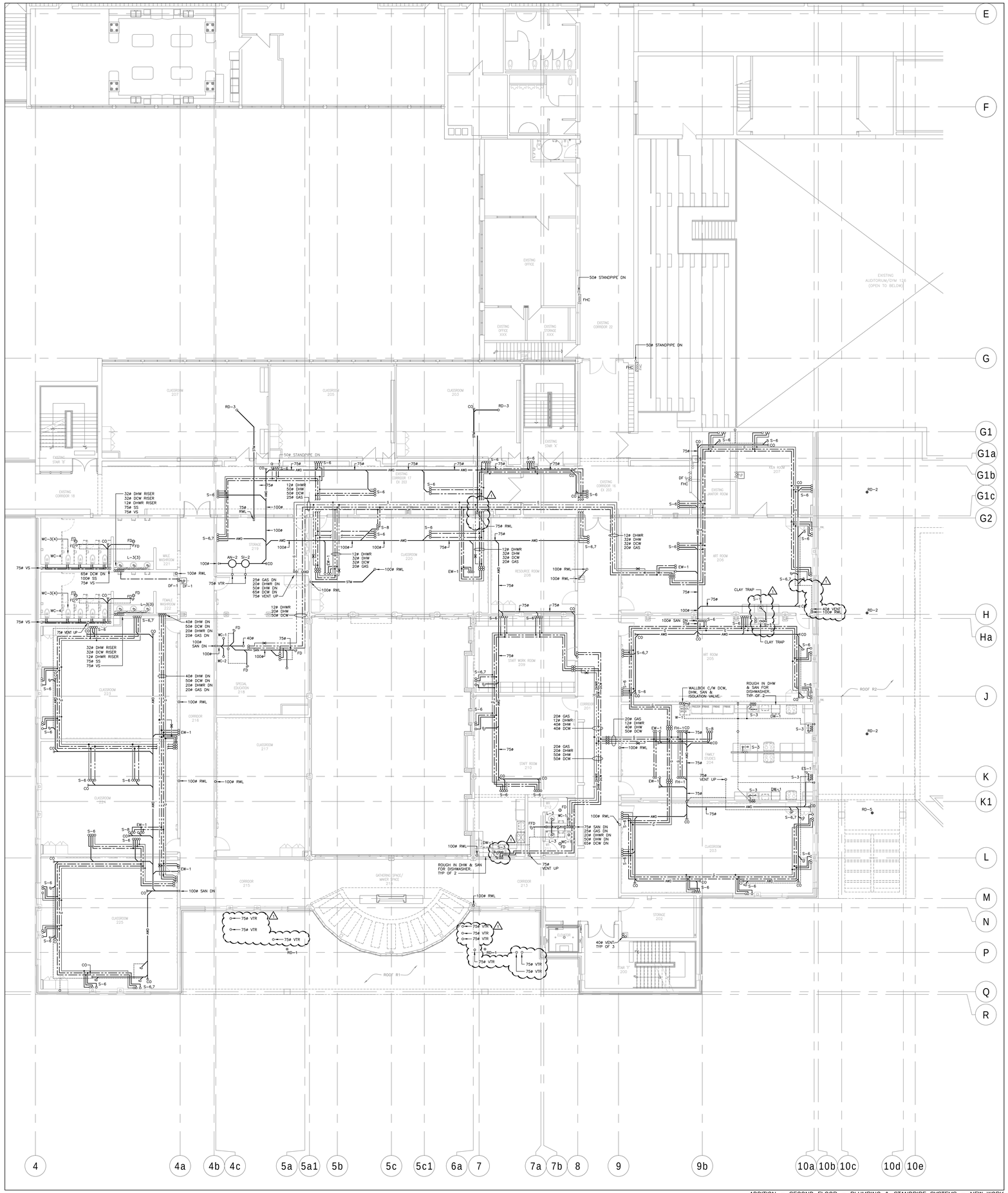
reference

project no. 2024-21
client reference number

sheet no. M-20700



DAYCARE – ROOF – PLUMBING – NEW WORK
SCALE: 1:100



ADDITION – SECOND FLOOR – PLUMBING & STANDPIPE SYSTEMS – NEW WORK
SCALE: 1:100

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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENCE PROFESSIONAL ENGINEER April 2026 G. STRASHUN PROVINCE OF ONTARIO

drawn E.K./H.T.
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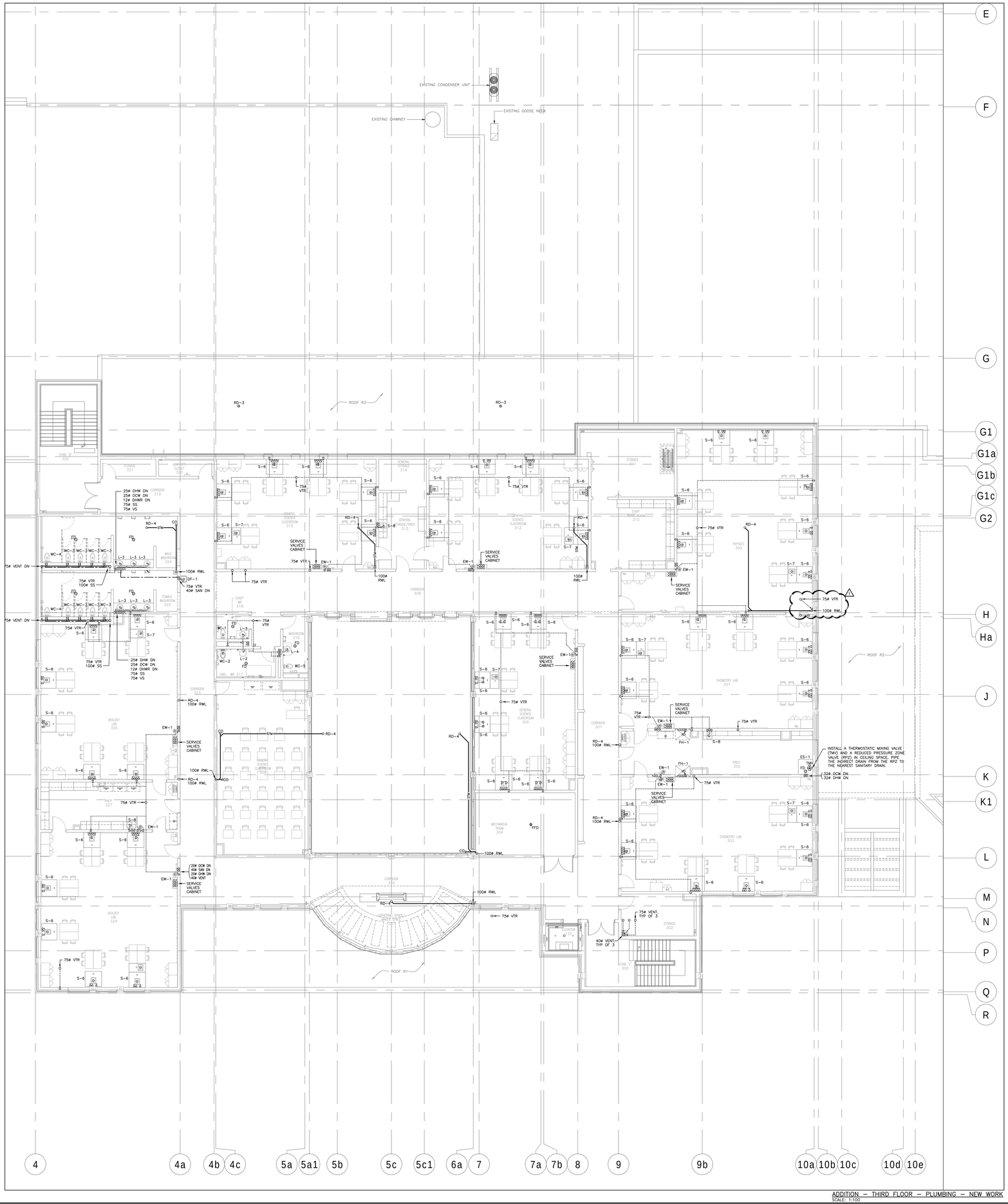
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
ADDITION SECOND FLOOR & DAY CARE ROOF – PLUMBING & STANDPIPE SYSTEM – NEW WORK

reference
project no. 2024–21
client reference number
sheet no. M-20800



ADDITION – THIRD FLOOR – PLUMBING – NEW WORK
SCALE: 1:100

Halton District School Board

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PROJECT NORTH
TRUE NORTH
scale 1:100

LICENCE PROFESSIONAL ENGINEER April 2025 G. STRASHUN PROVINCE OF ONTARIO

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HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
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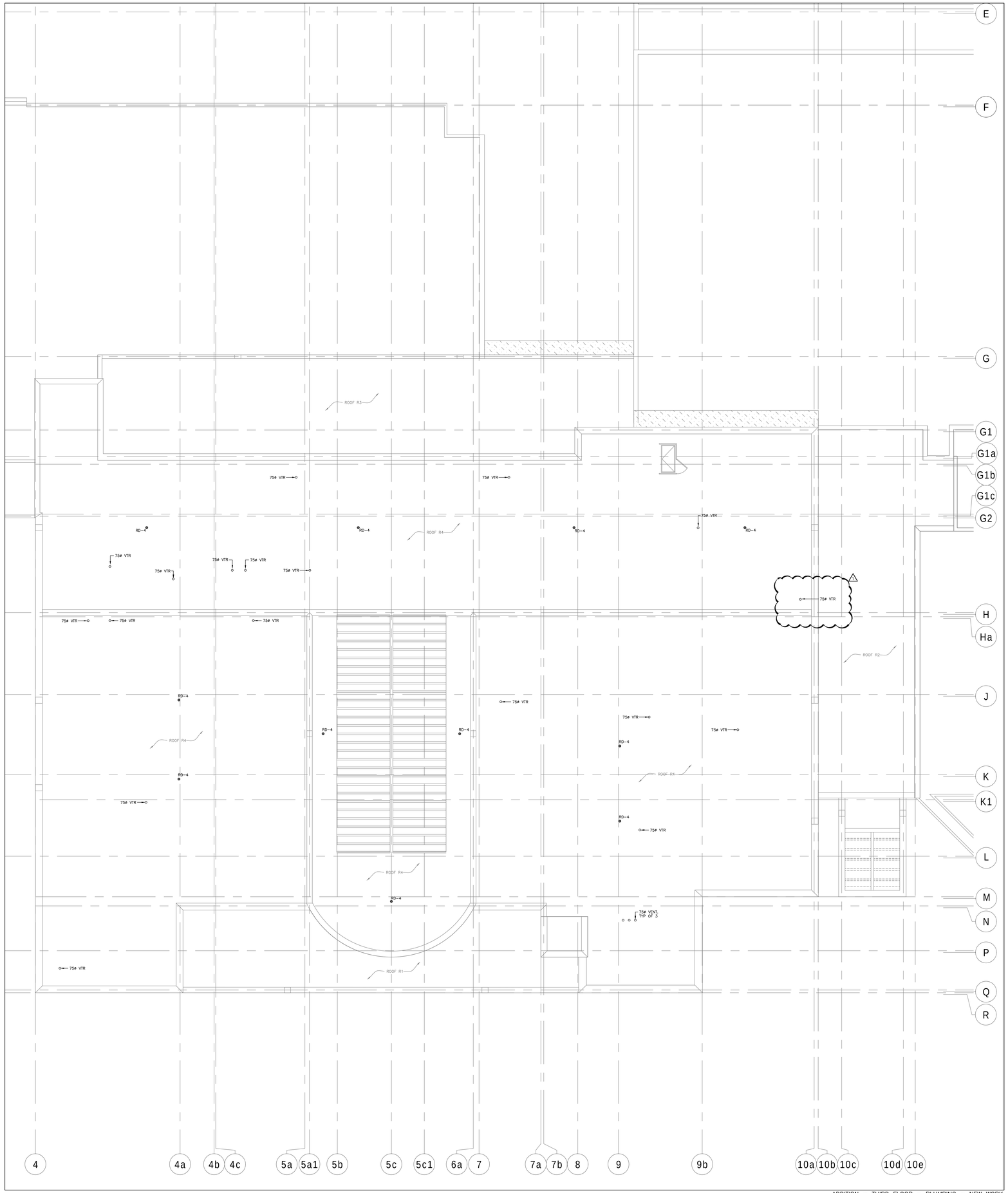
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – THIRD FLOOR – PLUMBING – NEW WORK

reference

project no. 2024-21 client reference number

sheet no. M-209 00



ADDITION – THIRD FLOOR – PLUMBING – NEW WORK
SCALE: 1:100

Halton District School Board

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HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
ADDITION – ROOF – PLUMBING – NEW WORK

reference

project no. 2024-21 | client reference number

sheet no. M-210 00

GENERAL NOTES:

PROVIDE ISOLATION VALVES ON DCW & DHW PIPING FOR EACH GROUP OF WASHROOM AND FOR EACH CLASSROOM.

PROVIDE ISOLATION VALVES AT EACH PLUMBING FIXTURE.

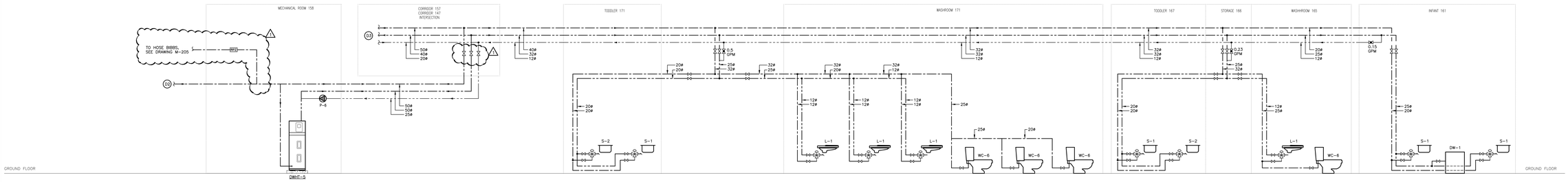
PROVIDE ISOLATION VALVES UP AND DOWN STREAM OF BALANCING VALVE.

PROVIDE ISOLATION VALVES, THERMOSTATIC MIXING VALVE, PRESSURE REDUCING ZONE BACKFLOW PREVENTER FOR ALL EMERGENCY EYEWASH AND SHOWER.

SUPPLY AND INSTALL MIXING VALVE FOR EACH EYEWASH STATION AND ELECTRONIC FAUCET FOR LAVATORY. REFER TO SPECIFICATION FOR TYPE.

THIRD FLOOR

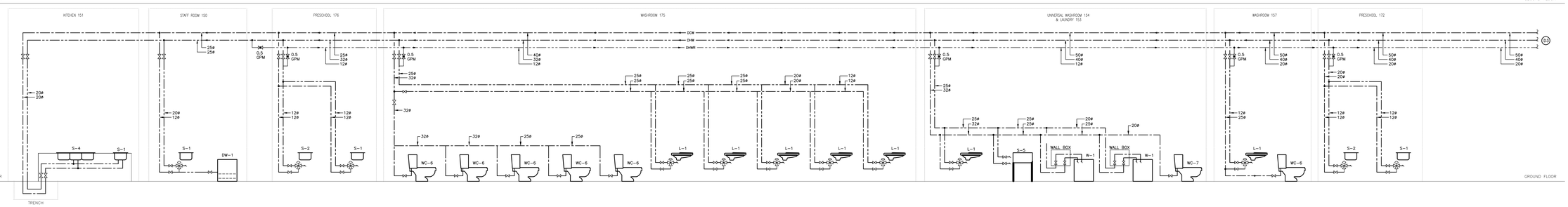
SECOND FLOOR



GROUND FLOOR

THIRD FLOOR

SECOND FLOOR



GROUND FLOOR

THIRD FLOOR

SECOND FLOOR

GROUND FLOOR

Halton District School Board

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PROJECT NORTH

TRUE NORTH

scale 1:100

consultant:

LICENCED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO April 2025 G.STRASHUN

drawn	E.K./H.T.
last worked on	by
checked	G.S.
last date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
DAYCARE – DOMESTIC WATER RISER – NEW WORK

reference

project no. 2024-21 | client reference number

sheet no. M-211 00

GENERAL NOTES:

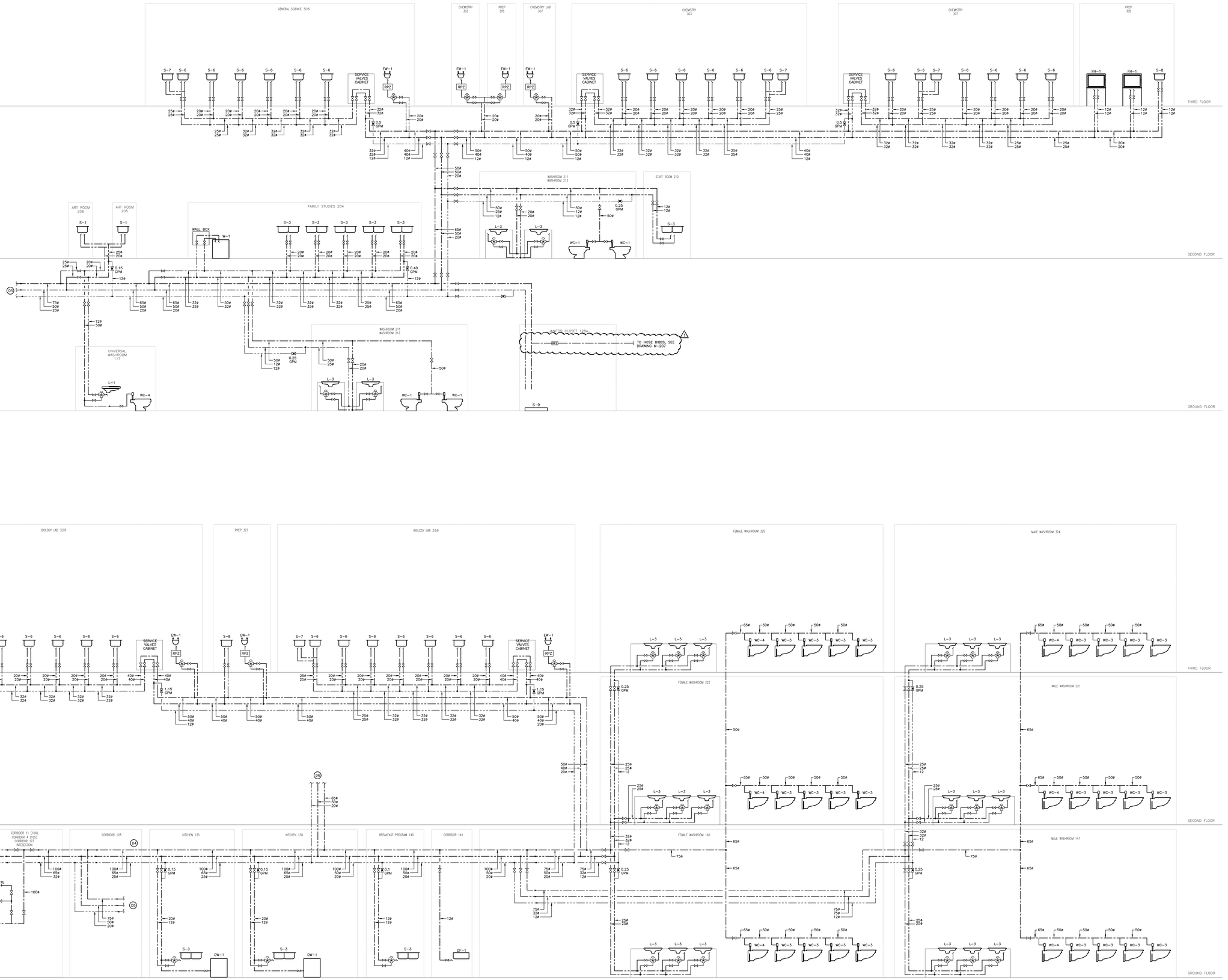
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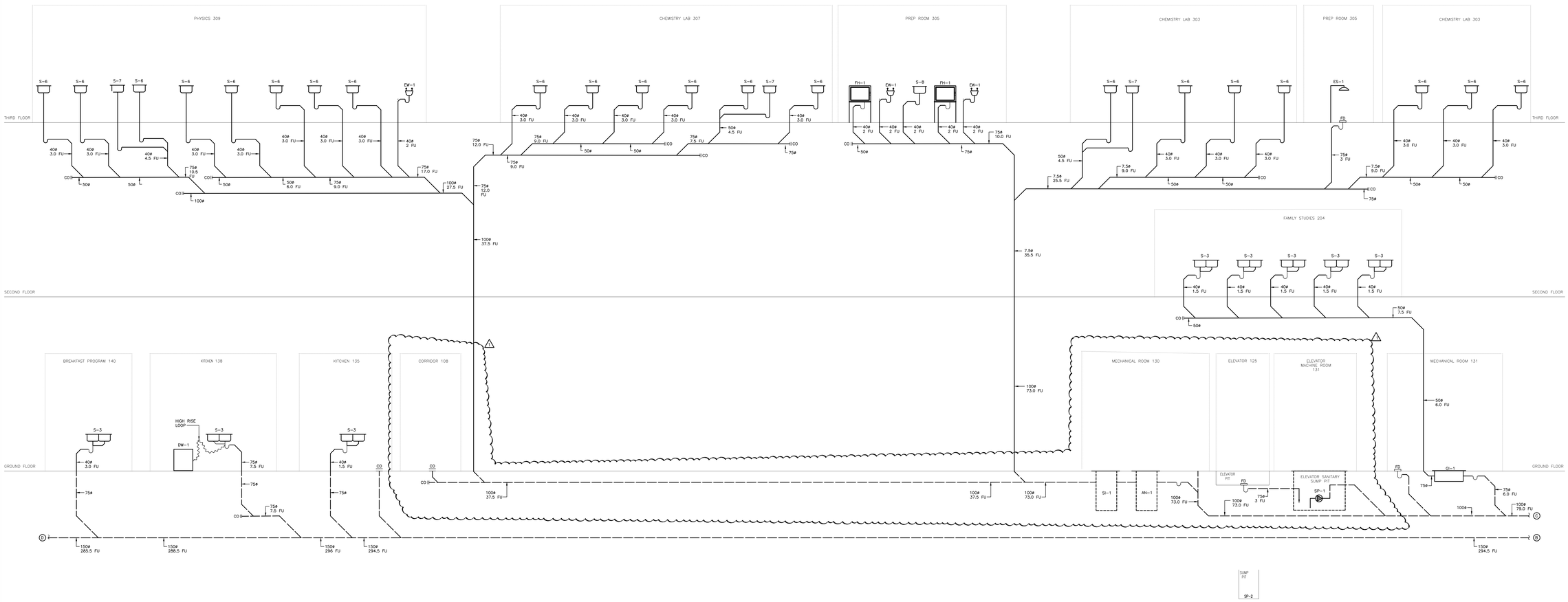
drawing title
ADDITION – DOMESTIC WATER RISER – NEW WORK – 1 OF 2

reference

project no. 2024-21

client reference number

sheet no. M-212 00



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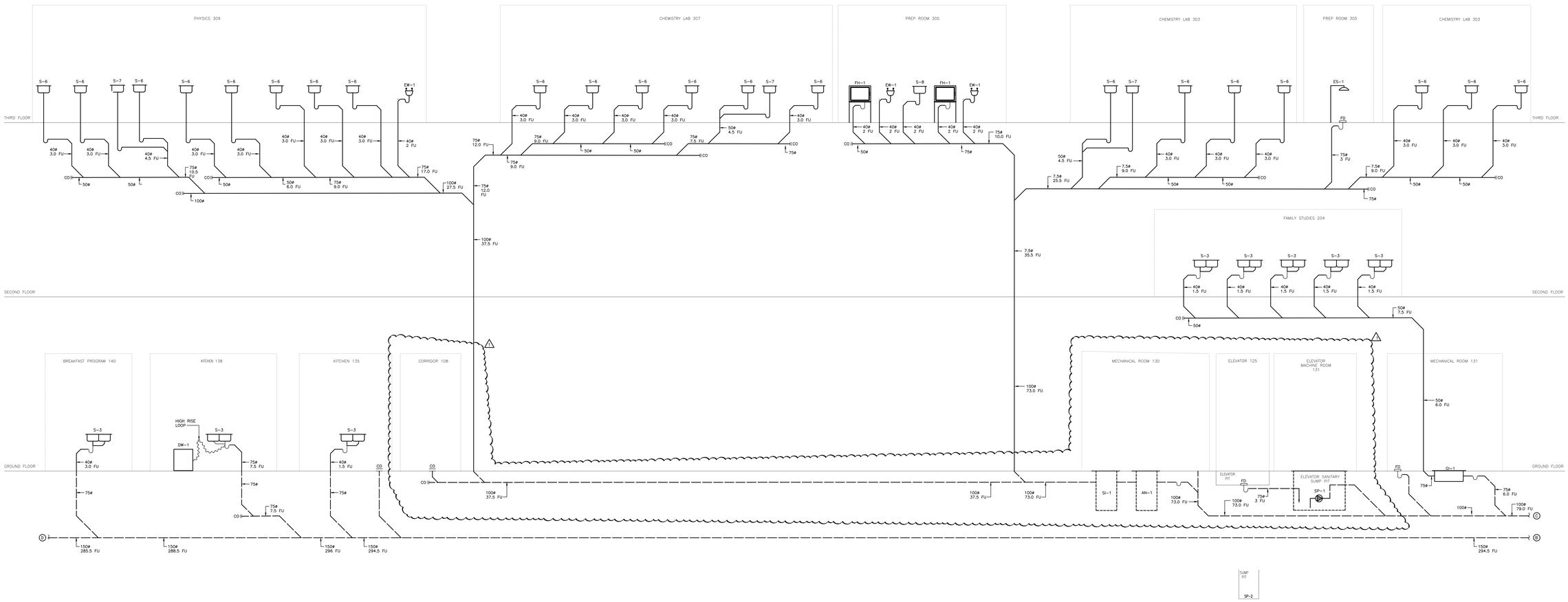
BJC architects + assocs. inc.

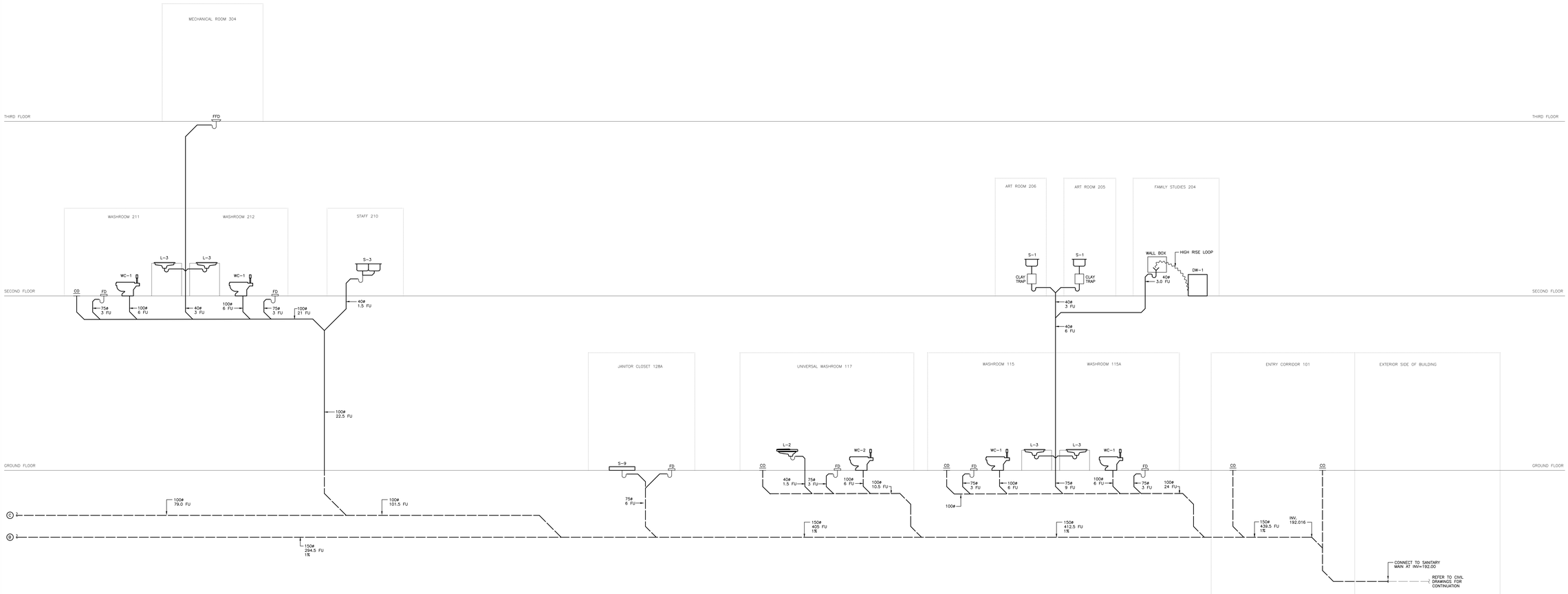
client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – SANITARY RISER – NEW WORK – 2 OF 4

reference
project no. 2024-21
client reference number
sheet no. M-216 00





Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
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No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO
April 2025
G.STRASHUN

drawn E.K./H.T.
last worked on by
checked G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

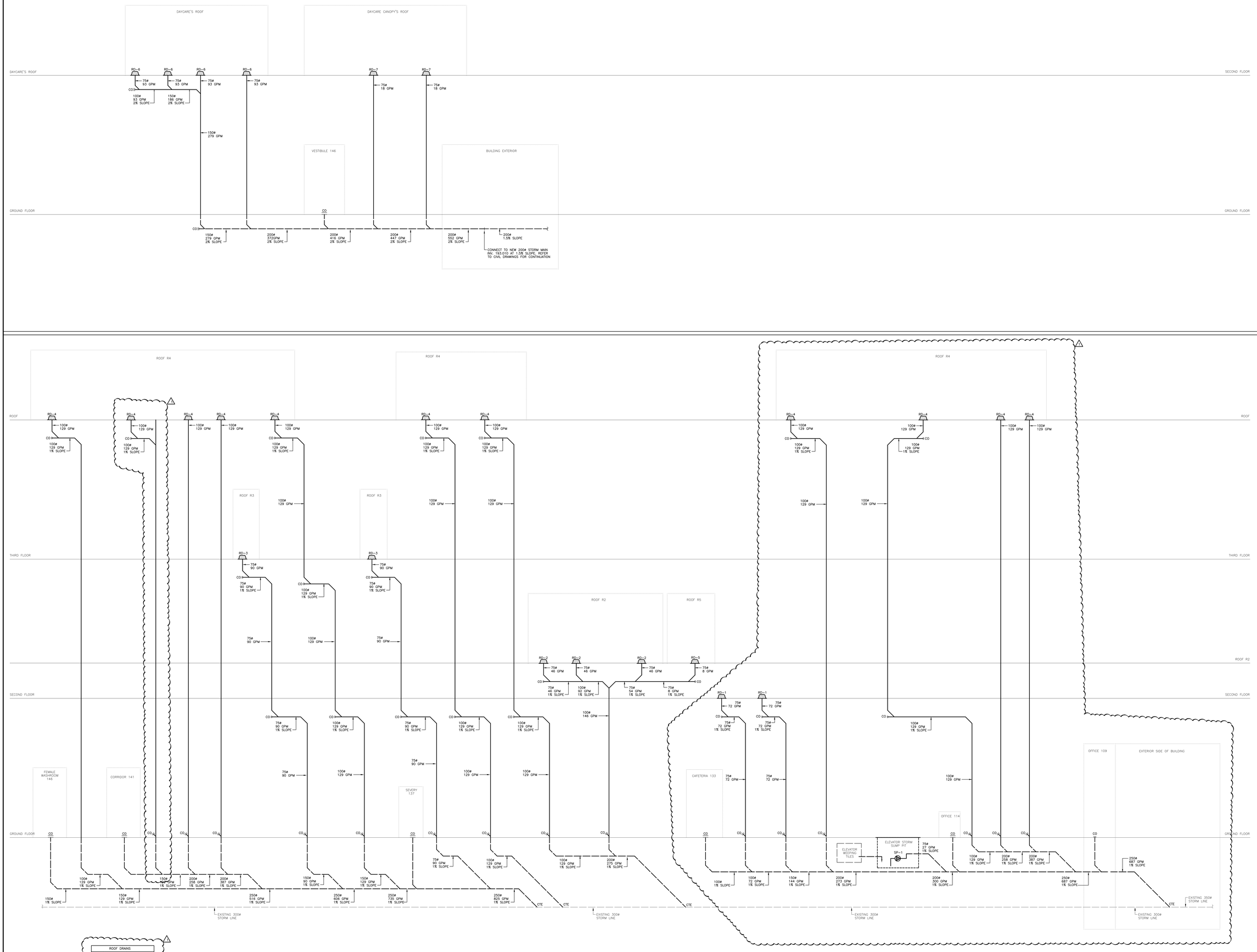
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – SANITARY RISER – NEW WORK – 3 OF 4

reference

project no. 2024-21
client reference number

sheet no. M-217 00



ROOF DRAINS		
TAG	FLOW (GPM)	TYPE
RD-1	72	CONVENTIONAL
RD-2	46	CONVENTIONAL
RD-3	90	CONVENTIONAL
RD-4	129	CONVENTIONAL
RD-5	8	CONVENTIONAL
RD-6	93	CONVENTIONAL
RD-7	18	CONVENTIONAL

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PROJECT NORTH
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scale 1:100

consultant
LICENCED PROFESSIONAL ENGINEER April 2025 G.STRASHUN PROVINCE OF ONTARIO

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print date	

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client
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2050 GUELPH LINE
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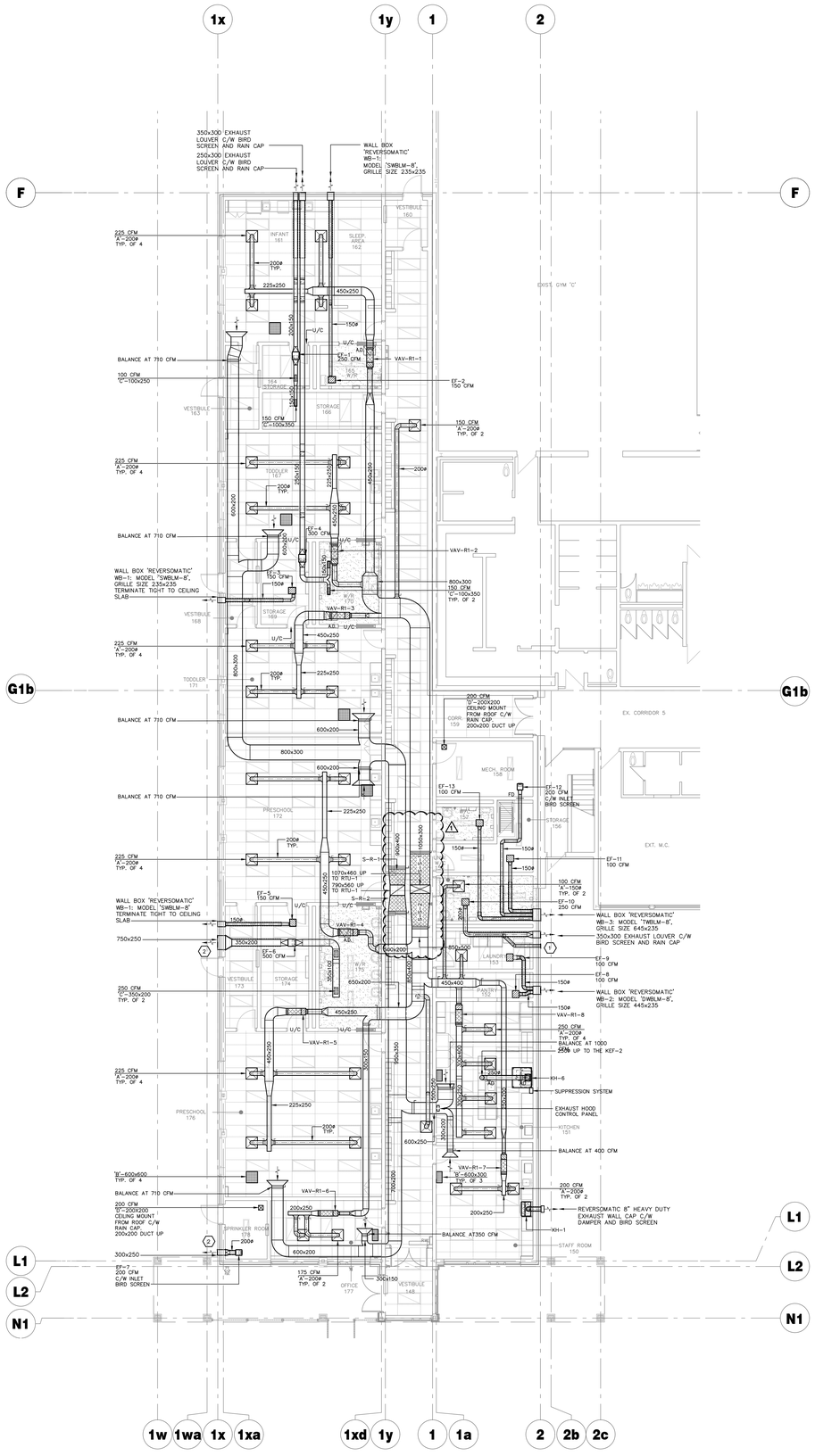
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – SANITARY RISER – NEW WORK – 4 OF 4

reference

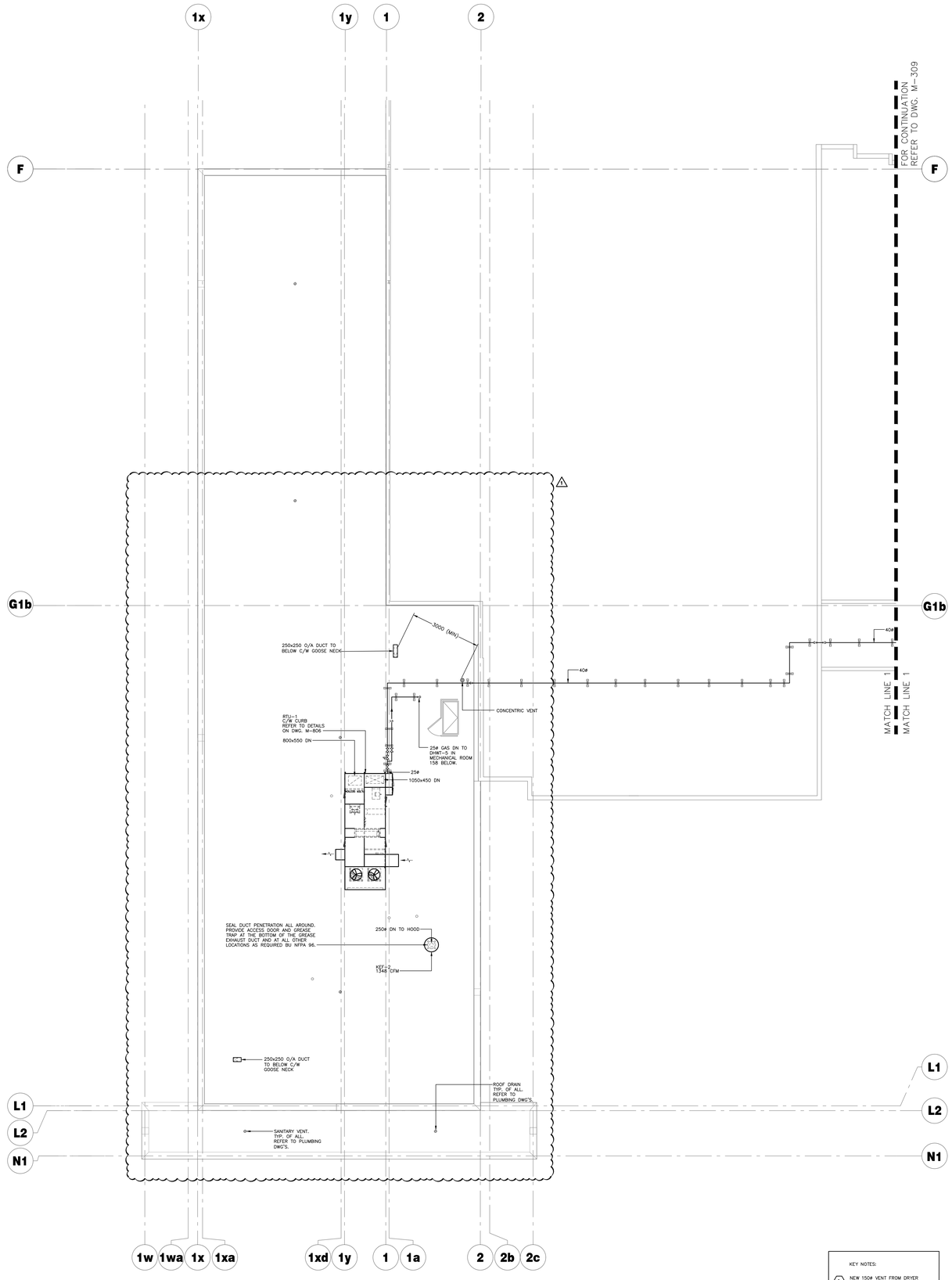
project no.	client reference number
2024-21	

sheet no.
M-218 00



DAYCARE –FIRST FLOOR – HVAC – NEW WORK

SCALE: 1:100



KEY NOTES:

1. NEW 150ø VENT FROM DRYER C/W UNT TRAP, ALL ALUMINUM DUCT, FANTECK HS 4W EXTERNAL LOUVER EXHAUST
2. EXHAUST LOUVER C/W BIRD SCREEN AND RAIN CAP. TERMINATE TIGHT TO CEILING SLAB

DAYCARE – ROOF – HVAC – NEW WORK

SCALE: 1:100

Halton District School Board

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1st FLOOR KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH

TRUE NORTH

scale 1:100

consultant

LICENCED PROFESSIONAL ENGINEER April 2025 G. STRASHUN PROVINCE OF ONTARIO

drawn	E.K./H.T.
last worked on	by
checked	G.S.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
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BURLINGTON ONTARIO

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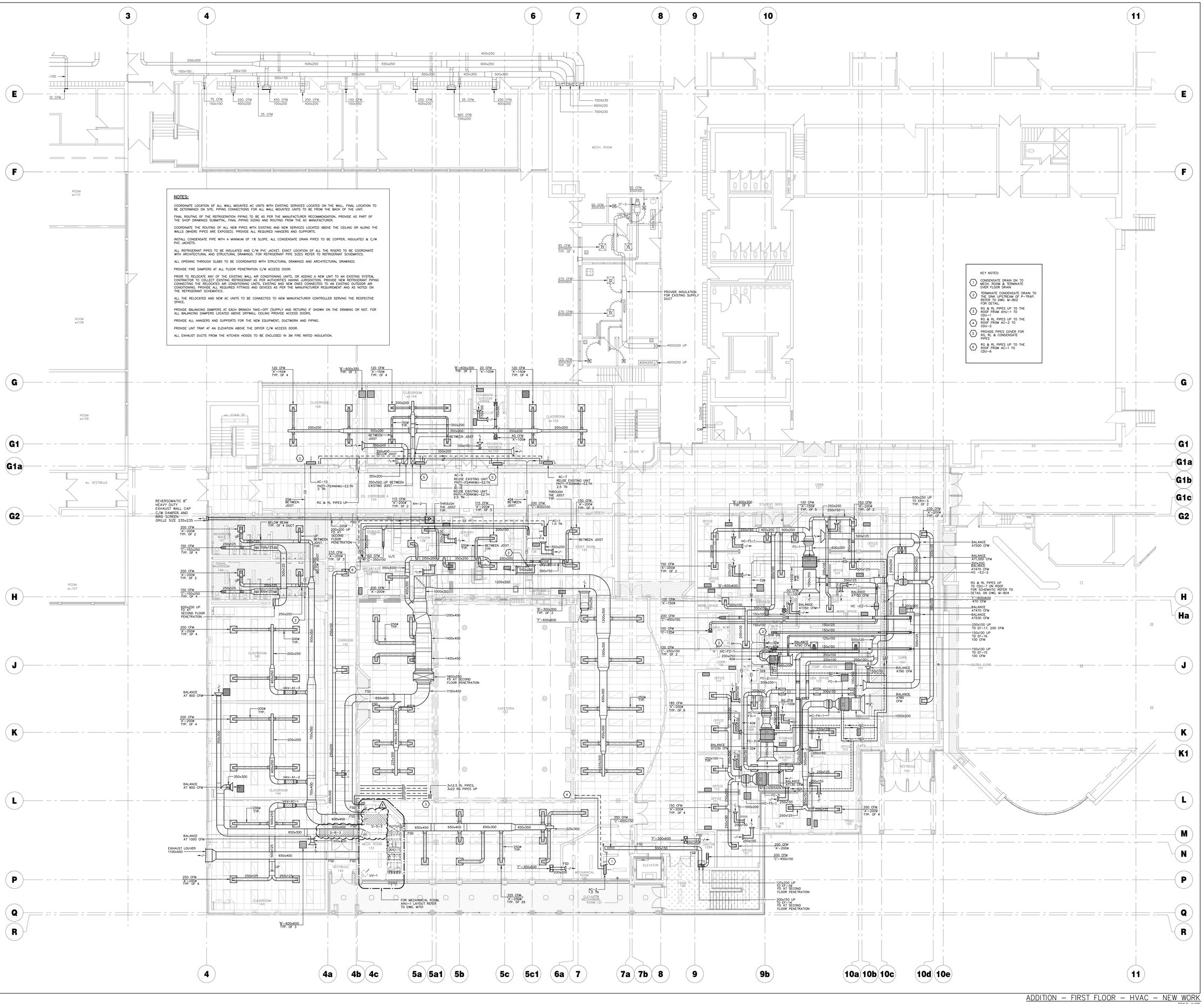
drawing title
DAYCARE – FIRST FLOOR, ROOF – HVAC – NEW WORK

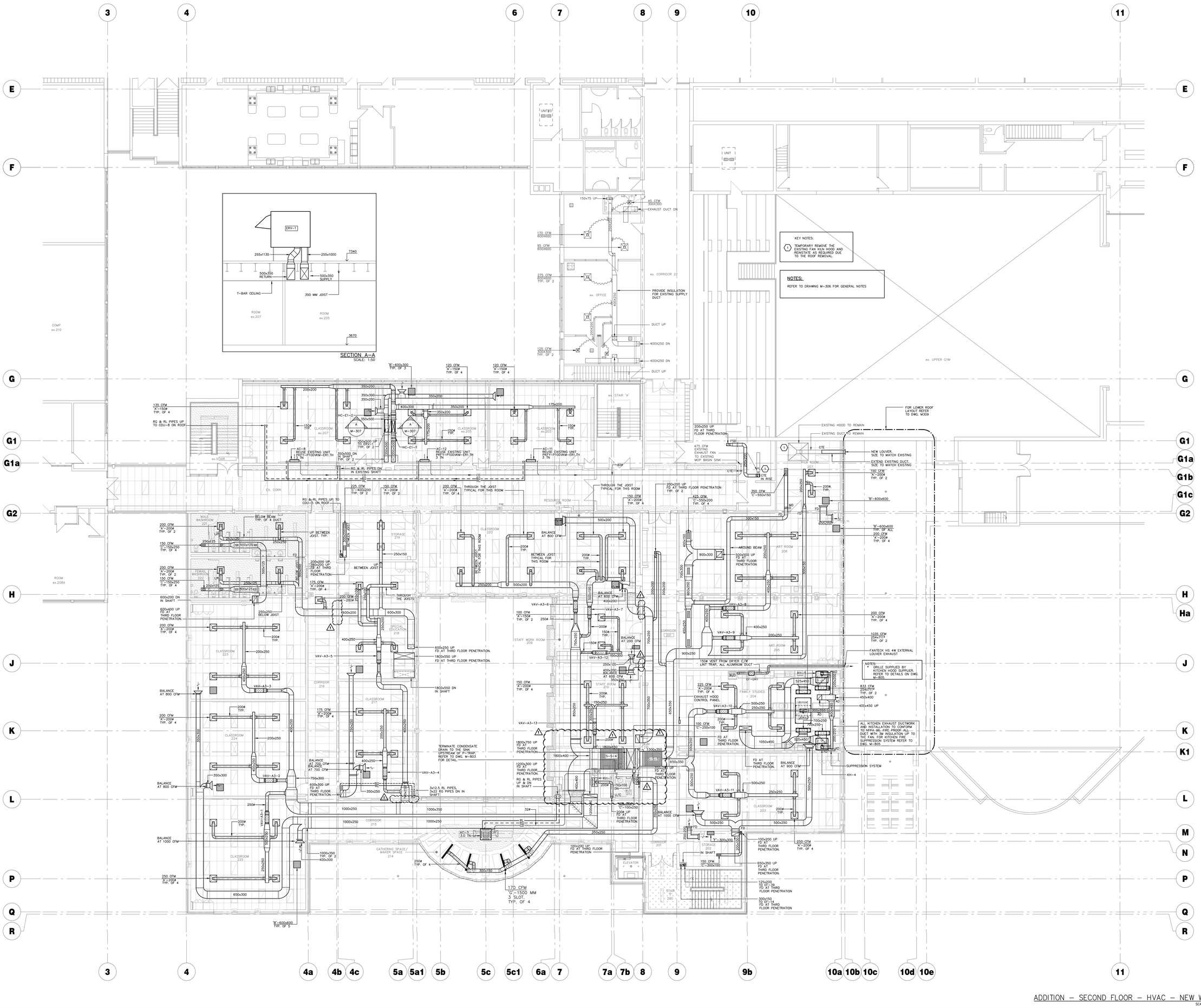
reference

project no. 2024-21

client reference number

sheet no. M-305oo


NOTES:
COORDINATE LOCATION OF ALL WALL MOUNTED AC UNITS WITH EXISTING SERVICES LOCATED ON THE WALL. FINAL LOCATION TO BE DETERMINED ON SITE. PIPING CONNECTIONS FOR ALL WALL MOUNTED UNITS TO BE FROM THE BACK OF THE UNIT.
FINAL ROUTING OF THE REFRIGERATION PIPING TO BE AS PER THE MANUFACTURER RECOMMENDATION. PROVIDE AS PART OF THE SHOP DRAWINGS SUBMITTAL, FINAL PIPING SIZING AND ROUTING FROM THE AC MANUFACTURER.
COORDINATE THE ROUTING OF ALL NEW PIPES WITH EXISTING AND NEW SERVICES LOCATED ABOVE THE CEILING OR ALONG THE WALLS (WHERE PIPES ARE EXPOSED). PROVIDE ALL REQUIRED HANGERS AND SUPPORTS.
INSTALL CONDENSATE PIPE WITH A MINIMUM OF 1% SLOPE. ALL CONDENSATE DRAIN PIPES TO BE COPPER, INSULATED & C/W PVC JACKETS.
ALL REFRIGERANT PIPES TO BE INSULATED AND C/W PVC JACKET. EXACT LOCATION OF ALL THE RISERS TO BE COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. FOR REFRIGERANT PIPE SIZES REFER TO REFRIGERANT SCHEMATICS.
ALL OPENING THROUGH SLABS TO BE COORDINATED WITH STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS.
PROVIDE FIRE DAMPERS AT ALL FLOOR PENETRATION C/W ACCESS DOOR.
PRIOR TO RELOCATE ANY OF THE EXISTING WALL AIR CONDITIONING UNITS, OR ADDING A NEW UNIT TO AN EXISTING SYSTEM, CONTRACTOR TO COLLECT EXISTING REFRIGERANT AS PER AUTHORITIES HAVING JURISDICTION. PROVIDE NEW REFRIGERANT PIPING CONNECTING THE RELOCATED AIR CONDITIONING UNITS, EXISTING AND NEW ONES CONNECTED TO AN EXISTING OUTDOOR AIR CONDITIONING. PROVIDE ALL REQUIRED FITTINGS AND DEVICES AS PER THE MANUFACTURER REQUIREMENT AND AS NOTED ON THE REFRIGERANT SCHEMATICS.
ALL THE RELOCATED AND NEW AC UNITS TO BE CONNECTED TO NEW MANUFACTURER CONTROLLER SERVING THE RESPECTIVE SPACE.
PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE-OFF (SUPPLY AND RETURN) IF SHOWN ON THE DRAWING OR NOT. FOR ALL BALANCING DAMPERS LOCATED ABOVE DRYWALL CEILING PROVIDE ACCESS DOORS.
PROVIDE ALL HANGERS AND SUPPORTS FOR THE NEW EQUIPMENT, DUCTWORK AND PIPING.
PROVIDE UNIT TRAP AT AN ELEVATION ABOVE THE DRYER C/W ACCESS DOOR.
ALL EXHAUST DUCTS FROM THE KITCHEN HOODS TO BE ENCLOSED IN 3M FIRE RATED INSULATION.
KEY NOTES:
1 CONDENSATE DRAIN ON TO MECH. ROOM & TERMINATE OVER FLOOR DRAIN
2 TERMINATE CONDENSATE DRAIN TO THE SINK UPSTREAM OF P-TRAP. REFER TO DWG. M-502 FOR DETAIL
3 RG & RL PIPES UP TO THE ROOF FROM AHU-1 TO CDU-1
4 RG & RL PIPES UP TO THE ROOF FROM AC-2 TO CDU-2
5 PROVIDE PIPES COVER FOR RG, RL & CONDENSATE PIPES
6 RG & RL PIPES UP TO THE ROOF FROM AC-1 TO CDU-6
MECH. ROOM
CLASSROOM 106
CLASSROOM ex.104
CLASSROOM ex.102
CLASSROOM 140
CLASSROOM 144
CLASSROOM 145
CORRIDOR 141
CAFETERIA 132
STUDENT SERV. 120
STAFF ROOM 124
OFFICE 121
OFFICE 123
OFFICE 124
OFFICE 100
OFFICE 102
OFFICE 114
OFFICE 112
OFFICE 110
CONF. ROOM 126
GEN. OFFICE 102
ENTRY-CORR. 101
VESTIBULE 100
VESTIBULE 142
MECH. ROOM 133
ELEVATOR MECHANICAL ROOM 131
MECHANICAL ROOM 130
ELEVATOR
STAIR "F" 129
ex. STAIR "A"
ex. STAIR "B"
ex. VESTIBULE
EXISTING SOFFIT
PROVIDE INSULATION FOR EXISTING SUPPLY DUCT
REVERSOMATIC 8" HEAVY DUTY EXHAUST WALL CAP C/W DAMPER AND BIRD SCREEN GRILLE SIZE 235x235
AC-10 PKFY-P24NKMU-E2.TH 2 TN
AC-9 REUSE EXISTING UNIT PKFY-P24NKMU-E2.TH
AC-10 REUSE EXISTING UNIT PKFY-P30NKMU-E2.TH 2.5 TN
AC-7 REUSE EXISTING UNIT PKFY-P30NAMU-E2.TH 2.5 TN
AC-1 1.0 TN
AC-8 1.0 TN
AHU-1
UV-1
FOR MECHANICAL ROOM AHU-1 LAYOUT REFER TO DWG. M701
3x12.5 RL PIPES, 3x22 RG PIPES UP
RG & RL PIPES UP
125x200 UP TO EF-13, 200 CFM FD AT SECOND FLOOR PENETRATION
300x150 UP TO EF-14 FD AT SECOND FLOOR PENETRATION
600x250 UP TO ERV-3
RG & RL PIPES UP TO CDU-7 ON ROOF. FOR SCHEMATIC REFER TO DETAIL ON DWG. M-804
250x100 UP TO EF-17, 200 CFM
150x100 UP TO EF-16 100 CFM
150x100 UP TO EF-15 100 CFM
BALANCE AT500 CFM
BALANCE AT1,000 CFM
BALANCE AT470 CFM
BALANCE AT350 CFM
BALANCE AT90 CFM
BALANCE AT80 CFM
BALANCE AT800 CFM
BALANCE AT1000 CFM
BALANCE AT230 CFM
EXHAUST LOUVER 1100x400
VAV-A1-1
VAV-A1-2
VAV-A1-3
VAV-B2-1
HC-F1-1
HC-F2-1
HC-F3-1
HC-F4-1
FC-1
FC-2
FC-3
FC-4
FC-F1-1
EF-2
UNIV. W/R
V. PR
V. IR
RWL
SVP
DP
FSD
U/C
1200x300
1000x350
1200x400
1400x400
1400x450
1800x450
1100x450
650x450
650x400
650x300
450x300
225x300
1050x300
1050x200
1050x250
1050x150
1050x100
1050x125
1050x350
1050x400
1050x500
1050x600
1050x700
1050x750
1050x800
1050x900
1050x1000
1050x1050
1050x1100
1050x1200
1050x1300
1050x1400
1050x1500
1050x1600
1050x1700
1050x1800
1050x1900
1050x2000
1050x2100
1050x2200
1050x2300
1050x2400
1050x2500
1050x2600
1050x2700
1050x2800
1050x2900
1050x3000
1050x3100
1050x3200
1050x3300
1050x3400
1050x3500
1050x3600
1050x3700
1050x3800
1050x3900
1050x4000
1050x4100
1050x4200
1050x4300
1050x4400
1050x4500
1050x4600
1050x4700
1050x4800
1050x4900
1050x5000



ADDITION – SECOND FLOOR – HVAC – NEW WORK
SCALE: 1:100

Halton District School Board

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2nd FLOOR KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENCED PROFESSIONAL ENGINEER G. STRASHUN POWER OF ONTARIO
BJC architects + assocs. inc.

drawn E.K./H.T.
last worked on by
checked G.S.
print date

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
ADDITION – SECOND FLOOR – HVAC – NEW WORK

reference
project no. 2024-21
client reference number
sheet no. M-307 00

NOTES:

REFER TO DRAWING M-306 FOR GENERAL NOTES

FOR LOWER ROOF LAYOUT REFER TO DWG. M309

FOR MECHANICAL ROOM, AHU-3 LAYOUT REFER TO DWG. M702

ADDITION – THIRD FLOOR – HVAC – NEW WORK

SCALE: 1:100

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SAB ENGINEERING Inc.

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3rd FLOOR
KEY PLAN

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03	ISSUED FOR ADDENDUM #3	MAY/07/26
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PROJECT NORTH | TRUE NORTH | scale 1:100

Consultant

LICENSED PROFESSIONAL ENGINEER
G. STRASHUN
PROVINCE OF ONTARIO

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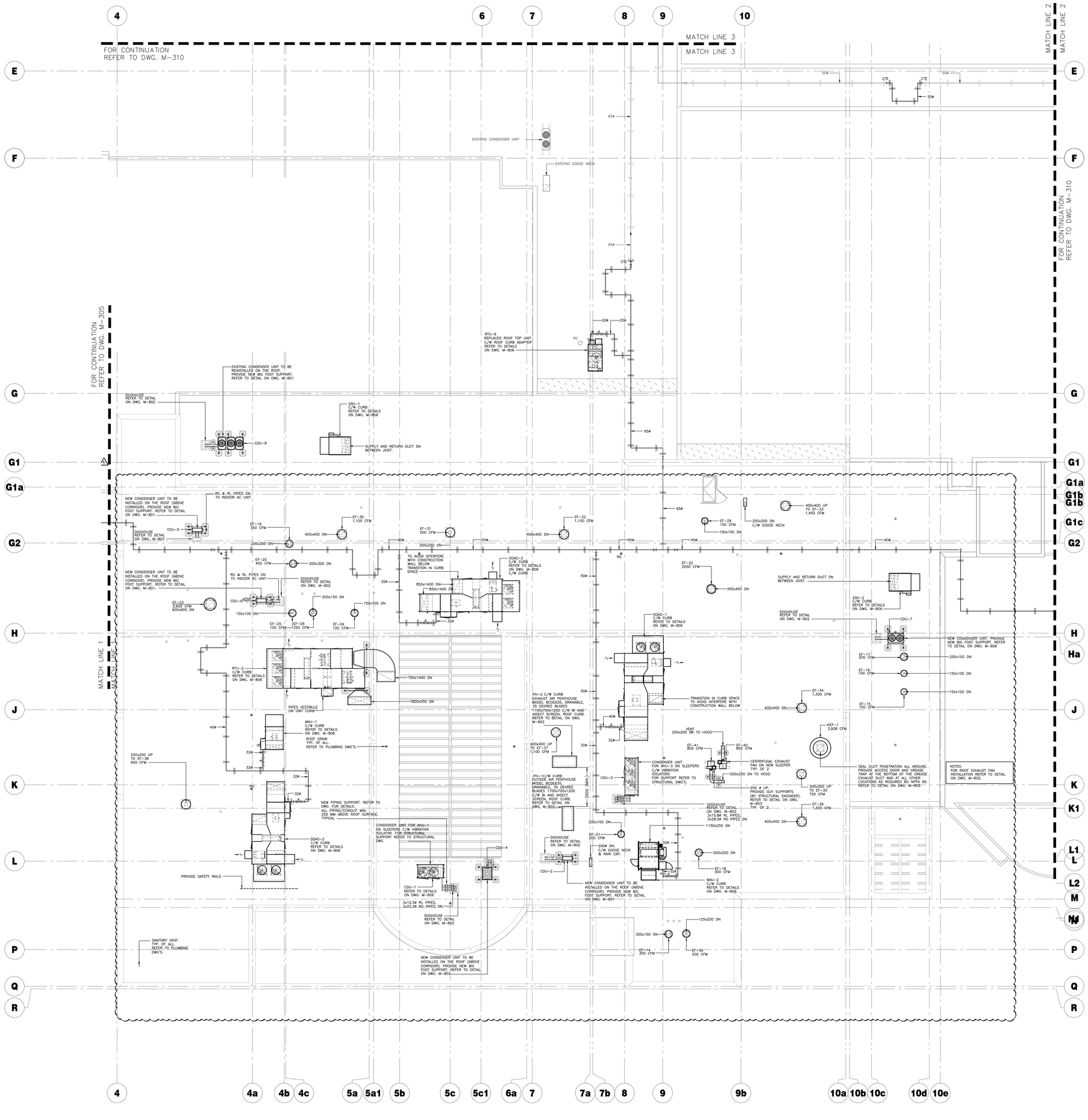
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

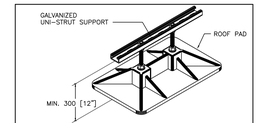
drawing title
ADDITION – THIRD FLOOR – HVAC – NEW WORK

reference

project no. 2024-21 | client reference number

sheet no. M-308 00





PIPE AND CONDUIT SUPPORT ON THE ROOF
N.T.S.

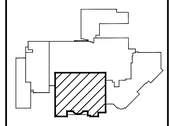
ROOF WORK NOTES:

1. FOR EQUIPMENT SUPPORT ON THE ROOF, REFER TO STRUCTURAL DRAWINGS.
2. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND EQUIPMENT.
3. MAINTAIN 3M [10 FT] BETWEEN ANY FRESH AIR INTAKE & EXHAUST FANS OR RELIEF AIR PENTHOUSES.
4. INSTALL NEW GAS PIPES ON THE ROOF C/W NEW ROOF SUPPORTS. REFER TO DETAIL ON DWG. M-800. GAS PIPING SHALL BE PAINTED YELLOW.
5. PROVIDE NEW NON-PENETRATING ROOF SUPPORTS FOR THE DUCTWORK ON THE ROOF. ALL DUCTWORK ON THE ROOF TO BE INSULATED AS NOTED IN THE SPECIFICATIONS. PROVIDE SUPPORT FOR DUCTWORK INSTALLED ON THE EXTERIOR WALL. FOR TYPE OF SUPPORT, REFER TO DRAWINGS M-5.1
6. PROVIDE NEW CONES, DOG HOSES FOR PIPING AND CONDUITS PENETRATION AS REQUIRED.
7. COVER EXISTING ROOF CURBS WITH PLYWOOD AND GALVANIZED FLASHING TO MAKE SECURE AND WATER TIGHT.
8. SUPPLY AND INSTALL ADAPTER CURBS AND EXTEND DUCTWORK WHERE NECESSARY.
9. PROVIDE PROTECTION BOARDS TO EXISTING ROOF AREAS WHEREVER CONSTRUCTION ACTIVITIES OCCUR.
10. KEEP EXISTING BUILDING WATERTIGHT DURING ALL WORK ON EXISTING ROOF. REPLACE ALL DAMAGED ROOFING INCLUDING SATURATED INSULATION, CAUSED BY CONSTRUCTION ACTIVITIES.
11. MAINTAIN EXISTING BUILDING SECURE FROM UNAUTHORIZED ENTRY DURING DEMOLITION PROCEDURES AND CONSTRUCTION ACTIVITIES.
12. PROVIDE ALL OPENINGS IN EXISTING AND NEW ROOF TO SUIT NEW MECHANICAL AND ELECTRICAL SERVICES. MAKE GOOD TO SUIT EXISTING ROOFING. REFER TO MECHANICAL AND ELECTRICAL WORK FOR LOCATIONS WHERE OPENINGS ARE REQUIRED IN EXISTING ROOF.
13. SIZE AND LOCATION OF ROOF OPENINGS AND WEIGHTS OF EQUIPMENT SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
14. IF NECESSARILY EXTEND EXISTING VENT TO KEEP 3.5 METERS MIN. DISTANCE FROM FRESH AIR INTAKE.

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ROOF
KEY PLAN

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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENCED PROFESSIONAL ENGINEER April 2025 G. STRASHUN PROVINCE OF ONTARIO

drawn	E.K./H.T.
last worked on	by
checked	G.S.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
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project
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396 WILLIAMS AVE.
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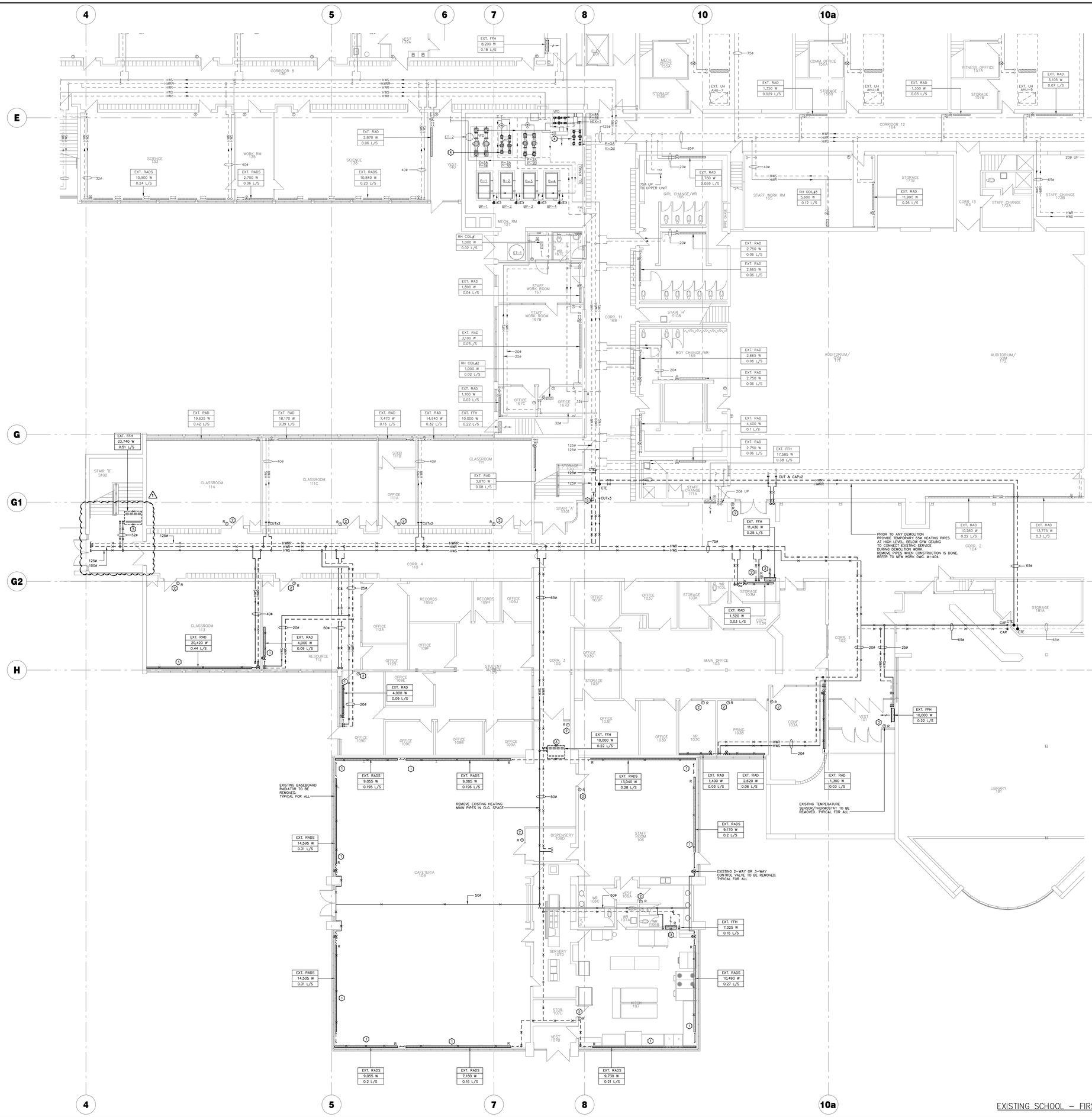
drawing title
ADDITION – ROOF – HVAC – NEW WORK – LIST 1 OF 2

reference

project no.	client reference number
2024-21	

sheet no.
M-309 00

ADDITION – ROOF – HVAC – NEW WORK
SCALE: 1:100



EXISTING/ DEMOLITION NOTES:

IF NOT NOTED OTHERWISE, THE EXISTING RADIATORS ARE TO REMAIN, INCLUDING CONTROL VALVES AND THERMOSTATS.

WHERE THE EXISTING THERMOSTATS ARE TO BE REMOVED, INCLUDE FOR REMOVAL OF ALL CONTROL WIRING AND CONDUITS.

CONTRACTOR TO ALLOW FOR THE DRAINAGE OF THE HEATING SYSTEM AS REQUIRED TO ALLOW FOR THE DEMOLITION WORK.

WHERE THE EXISTING RADIATORS ARE NOTED TO BE REMOVE, INCLUDE FOR REMOVAL OF ALL ASSOCIATED PIPES, CONTROL VALVES, PIPE COVERS, HANGERS AND SUPPORTS.

KEY NOTES:

1. REMOVE EXISTING RADIATORS WITH ALL ASSOCIATED ACCESSORIES, FLOOR SUPPORTS, PIPING AND PIPES' COVERS, ISOLATION, BALANCING VALVES.
2. REMOVE EXISTING THERMOSTAT C/W EXISTING CONTROL WIRING.
3. REMOVE EXISTING FORCED FLOW HEATER WITH ALL ASSOCIATED ACCESSORIES.
4. REMOVE PUMP TEMPORARY BYPASS PIPES.
5. PROVIDE 125ø TEMPORARY BYPASS PIPE. REMOVE IT WHEN CONTRACTION IS DONE.

EXISTING SCHOOL – FIRST FLOOR – HEATING PLAN – EXISTING & DEMOLITION WORK

SCALE: 1:100

Halton District School Board

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TEL. (905)-787 8885 FAX (905)-787 8771

KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

Consultant:
REGISTERED PROFESSIONAL ENGINEER G. STRASHUN April 2007 PROVINCE OF ONTARIO

drawn E.K./H.T.
last worked on by
checked G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

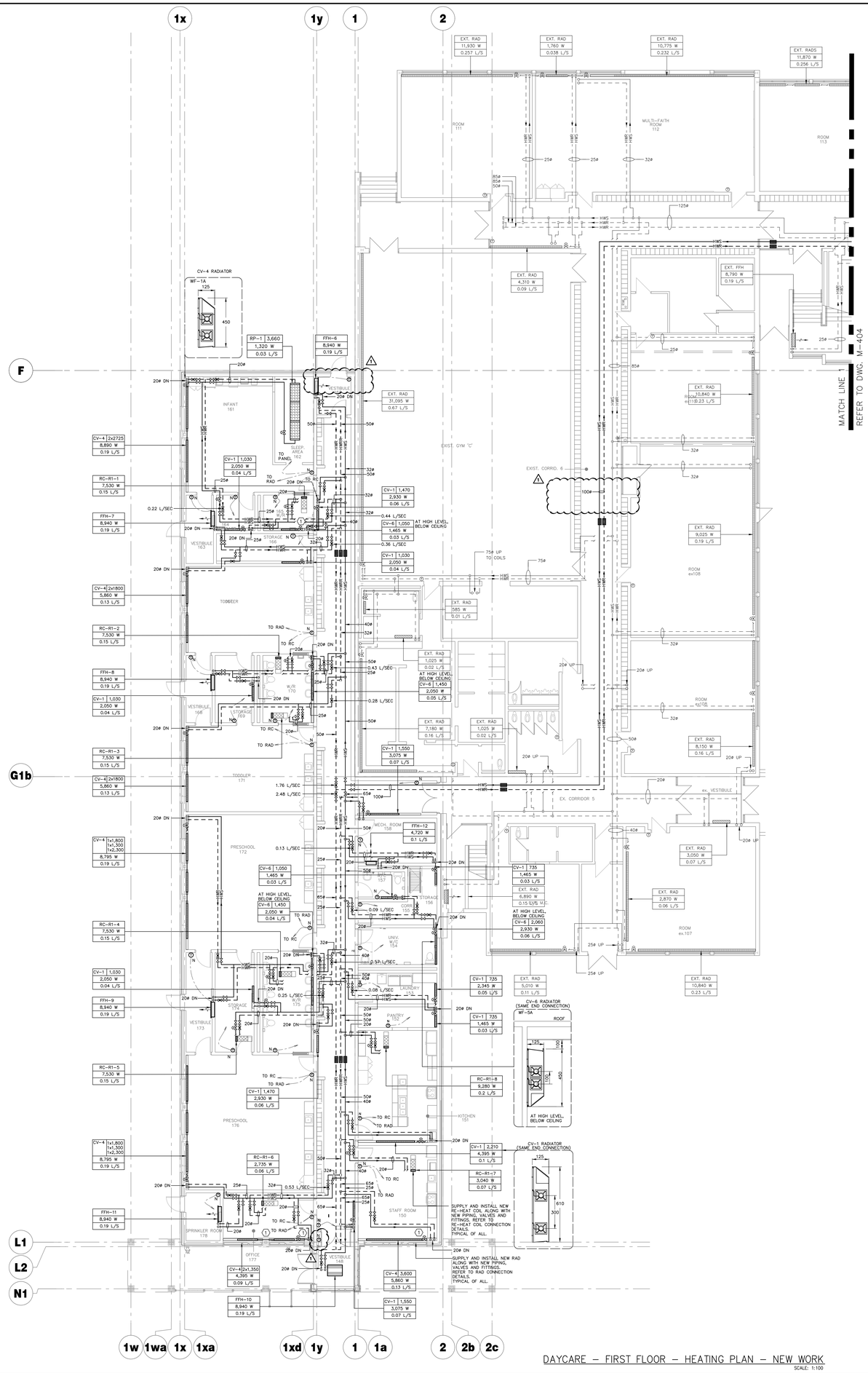
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
EXISTING SCHOOL – FIRST FLOOR – HEATING PLAN – EXISTING & DEMOLITION WORK

reference

project no. 2024-21
client reference number

sheet no. M-401 00



DAYCARE – FIRST FLOOR – HEATING PLAN – NEW WORK

SCALE: 1:100

GENERAL NOTES:

1. INSTALL NEW RADS SUPPORTED FROM THE WALL C/W WITH ALL REQUIRED SUPPORTS.
2. PROVIDE PIPE COVERS SUPPLIED BY THE MANUFACTURER.
3. COORDINATE WITH ARCH. SHAFTS FOR HW RISERS.
4. PROVIDE ACCESS FOR ALL CONTROL, BALANCING AND ISOLATION VALVES.
5. FOR ALL KINDERGARTEN RADIATORS PROVIDE A WIRE GUARD ON THE UNDERSIDE OF THE WALL FINS.

KEY NOTES:

(1) PROVIDE PIPES COVER

Halton District School Board

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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO Seal 2025 G.STRASHUN

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print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
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BURLINGTON ONTARIO

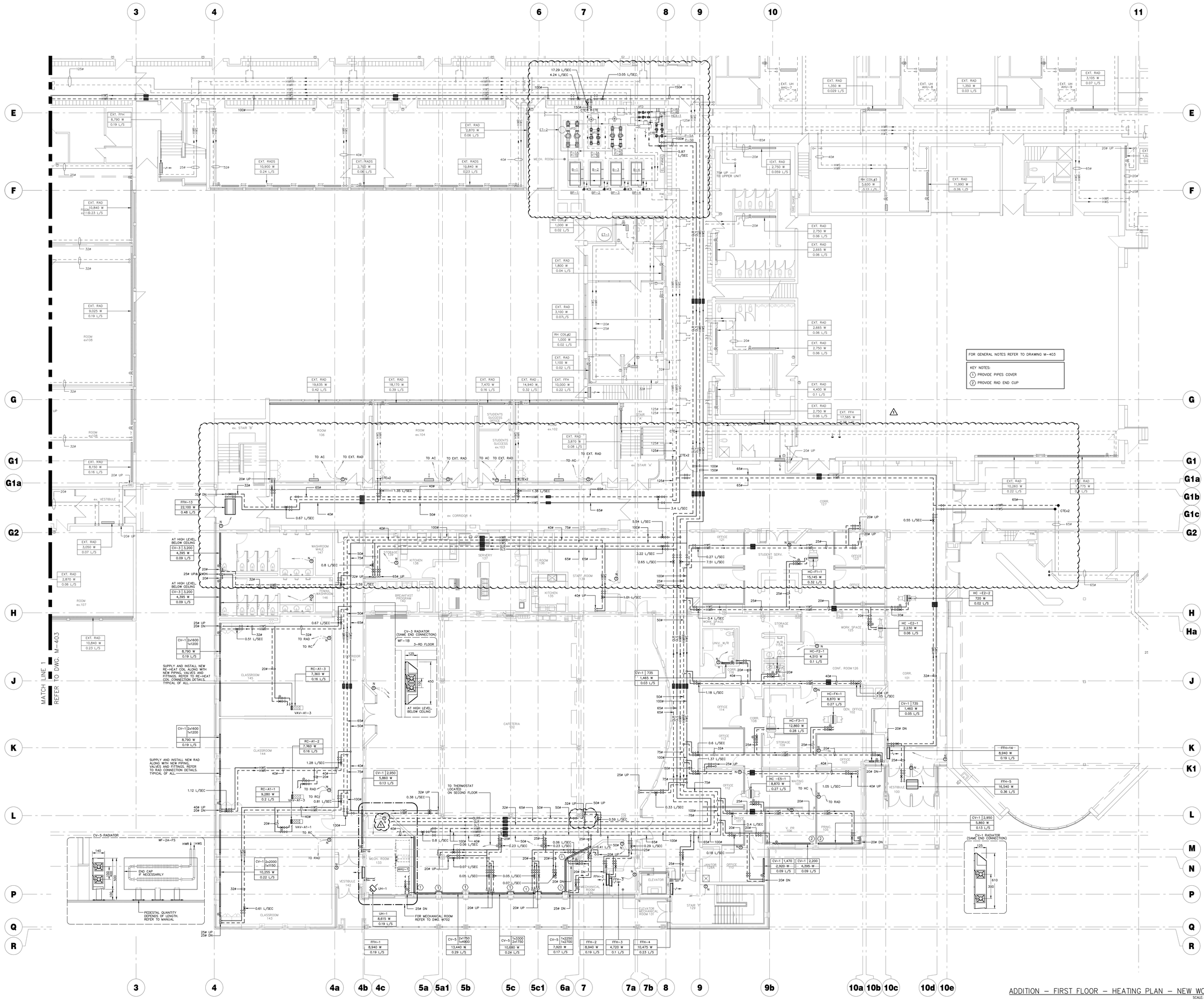
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
DAYCARE – FIRST FLOOR – HEATING PLAN – NEW WORK

reference

project no. 2024-21
client reference number

sheet no. M-403 00



Halton District School Board

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PROJECT NORTH | TRUE NORTH | scale 1:100

consultant: LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO G. STRASHUN

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print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

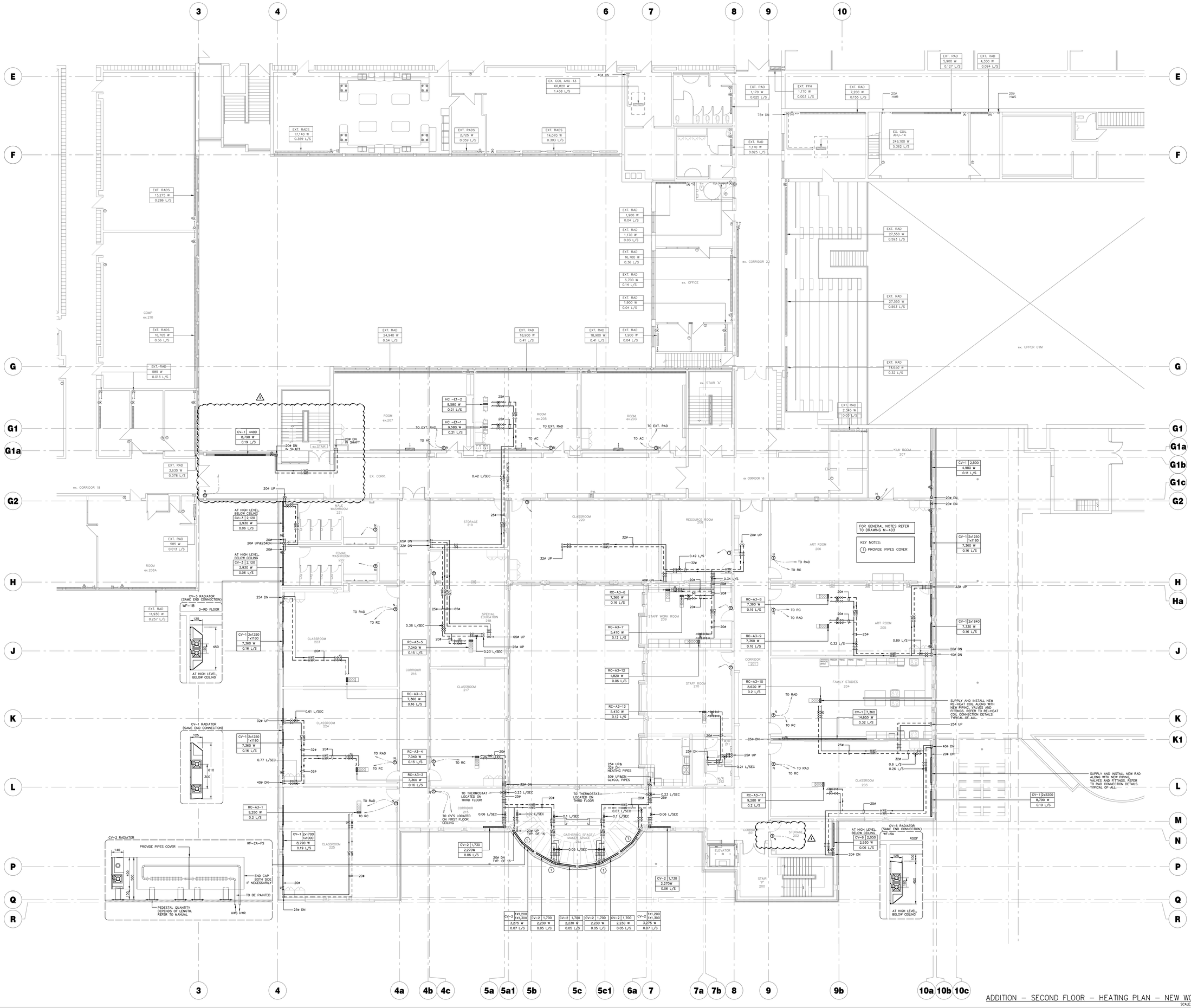
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – FIRST FLOOR – HEATING PLAN – NEW WORK

reference

project no.	client reference number
2024-21	

sheet no. M-404 00



ADDITION – SECOND FLOOR – HEATING PLAN – NEW WORK

SCALE: 1:100

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PROJECT NORTH

TRUE NORTH

scale 1:100

drawn	E.K./H.T.
last worked on	by
checked	G.S.
print date	

LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO — April 2025 — G. STRASHUN

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

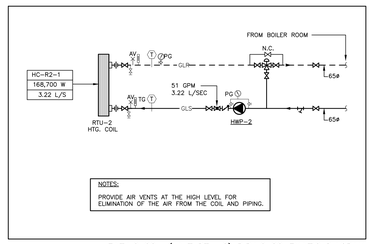
drawing title
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reference

project no. 2024-21

client reference number

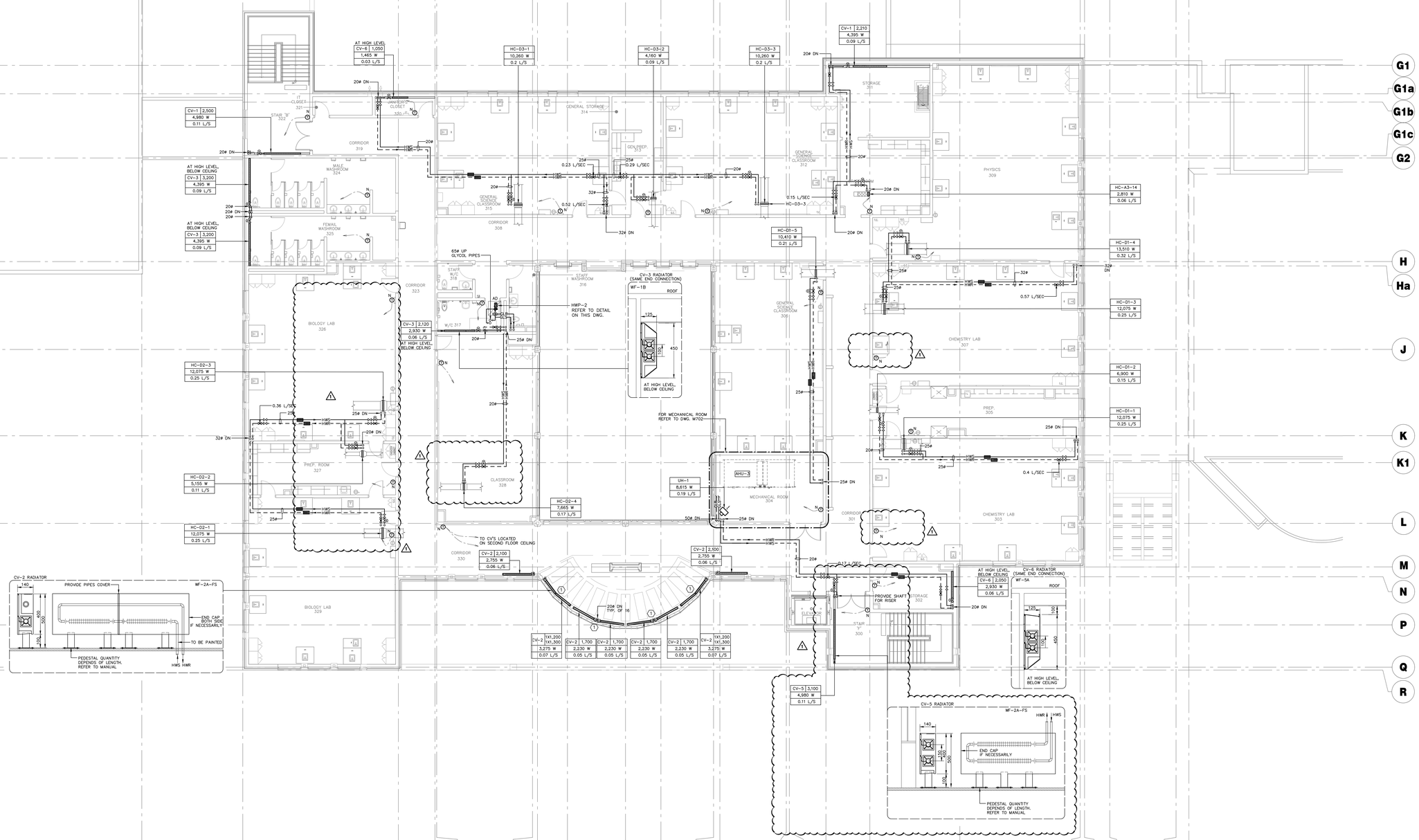
sheet no. M-405 00



HEATING COIL (UNIT RTU-2) PIPING SCHEMATIC DIAGRAM
N.T.S.

FOR GENERAL NOTES REFER TO DRAWING M-403

KEY NOTES:
1. PROVIDE PIPES COVER



ADDITION – THIRD FLOOR – HEATING PLAN – NEW WORK
SCALE: 1:100

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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENCED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO
G.STRASHUN
issued 2025

drawn E.K./H.T.
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HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
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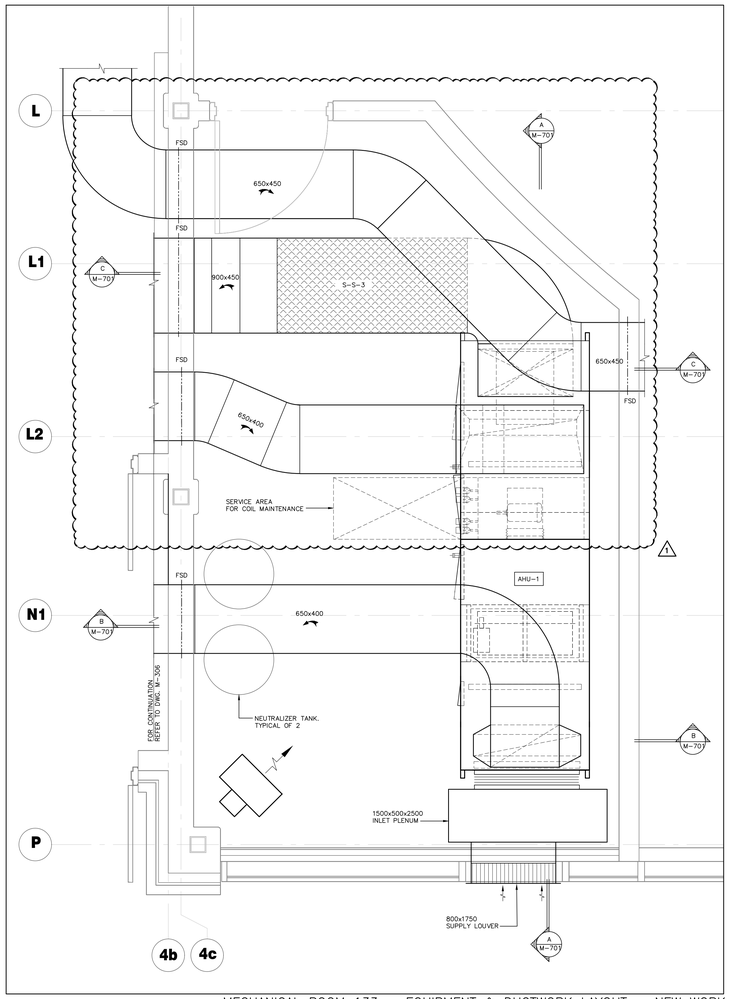
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION – THIRD FLOOR – HEATING PLAN – NEW WORK

reference

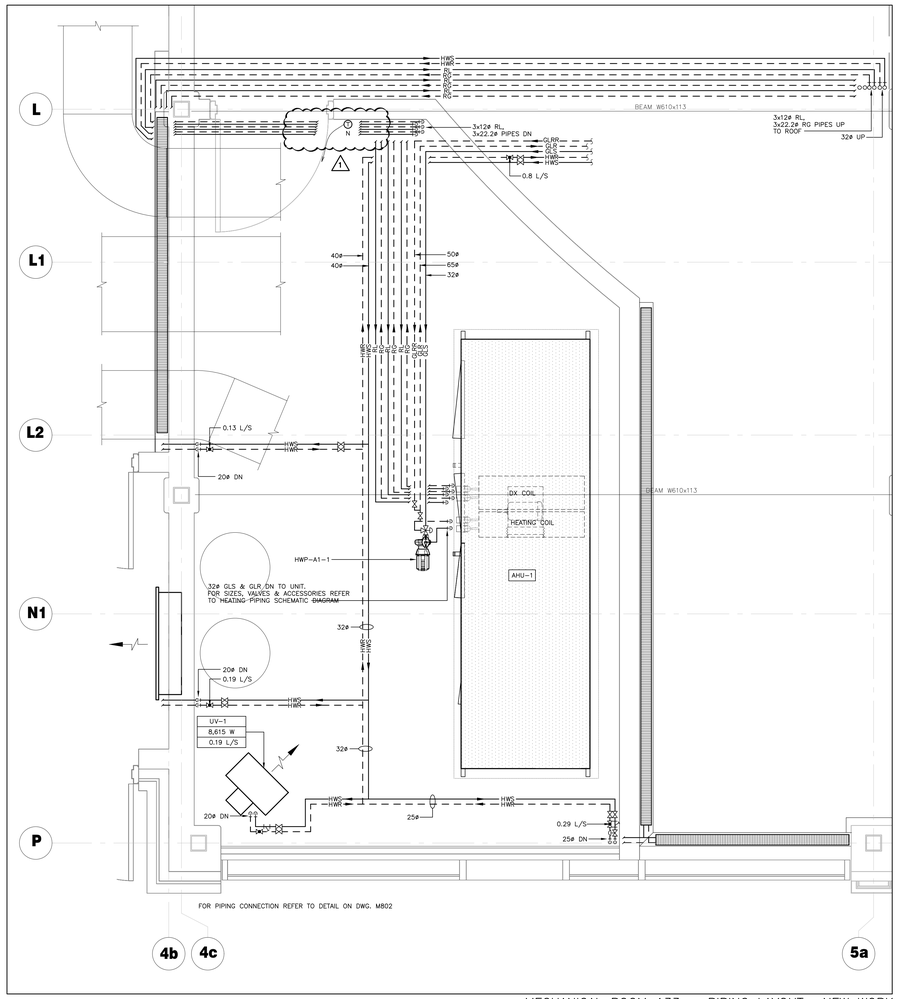
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client reference number

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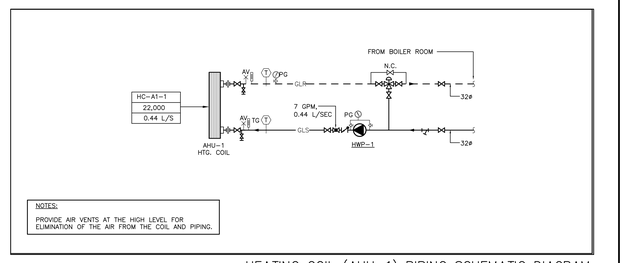
MECHANICAL ROOM 133 – EQUIPMENT & DUCTWORK LAYOUT – NEW WORK

SCALE: 1:20



MECHANICAL ROOM 133 – PIPING LAYOUT– NEW WORK

SCALE: 1:20

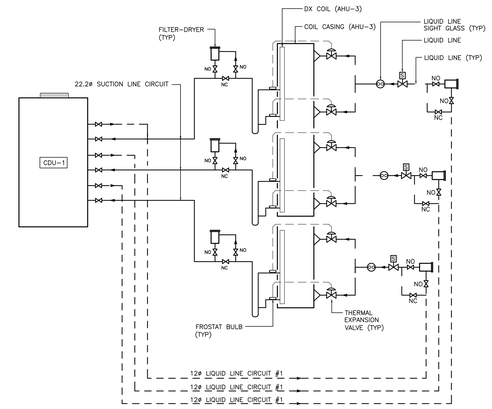


NOTES:

PROVIDE AIR VENTS AT THE HIGH LEVEL FOR ELIMINATION OF THE AIR FROM THE COIL AND PIPING.

HEATING COIL (AHU–1) PIPING SCHEMATIC DIAGRAM

N.T.S.



NOTES:

PROVIDE ALL NECESSARY CONTROL'S WIRING, REFRIGERANT ACCESSORIES AND POWER TO THE SOLENOID VALVES, INCLUDING STEP-DOWN TRANSFORMERS.

INSTALL THE REFRIGERANT PIPING OIL TRAPS, REFRIGERANT DISTRIBUTORS, TX VALVES, SOLENOID VALVES, ISOLATION VALVES, SENSING BULBS, FILTERS/DRYERS, SIGHT GLASSES AND OTHER ACCESSORIES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

PITCH THE LIQUID LINES SLIGHTLY (1:300) TOWARDS THE COILS, SO THAT THE REFRIGERANT DRAINS TOWARDS THE EVAPORATOR. PITCH THE SUCTION LINES SLIGHTLY (1:300) TOWARDS THE COILS, SO THAT ANY LIQUID ENTRAINED DRAINS BACK TOWARDS THE EVAPORATOR.

SLIGHTLY PITCH (1:300) THE OUTLET LINE FROM THE SUCTION HEADER TOWARDS THE SUCTION RISER IN THE DIRECTION OF FLOW. USE TUBE DIAMETER THAT MATCHES THE SUCTION-HEADER CONNECTION.

ARRANGE THE SUCTION LINE SO THAT THE REFRIGERANT GAS LEAVING THE COIL FLOWS DOWNWARDS PAST THE LOWEST SUCTION HEADER OUTLET, BEFORE TURNING UPWARDS. USE A DOUBLE ELBOW CONFIGURATION TO ISOLATE THE FROSTAT BULB FROM OTHER SUCTION HEADERS.

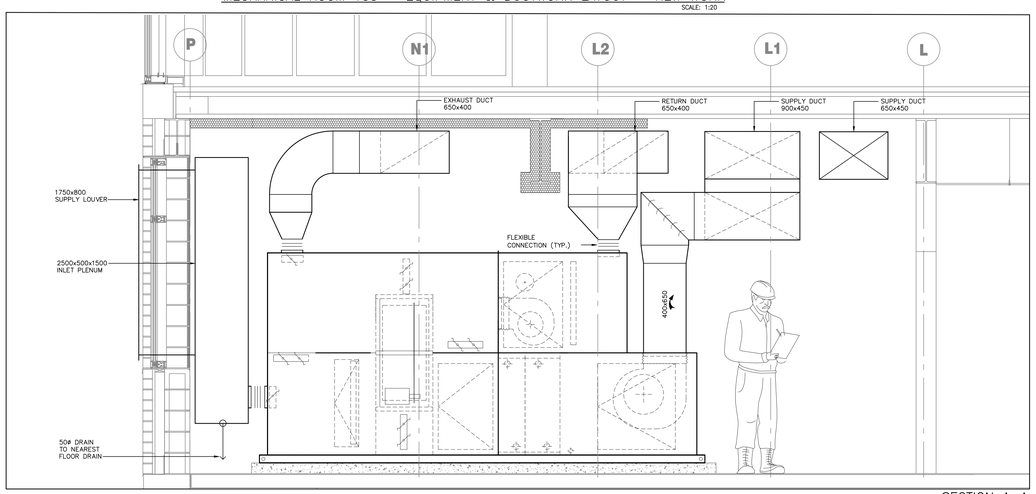
ENSURE THAT THE TOP OF THE SUCTION RISERS ARE ABOVE THE EVAPORATOR SECTIONS THEY SERVE.

SIZE ALL REFRIGERANT LINES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, BASED ON THE FINAL ROUTING AND LENGTH OF PIPING. ALL LINES TO BE SUPPORTED AND INSULATED AS INDICATED IN THE SPECIFICATIONS AND ON DETAILS ON DWG. M-1.

ALL SUCTION LINES TO BE INSULATED AS SPECIFIED; ON THE ROOF, PROVIDE JACKETING AND SADDLE SUPPORTS AS SPECIFIED.

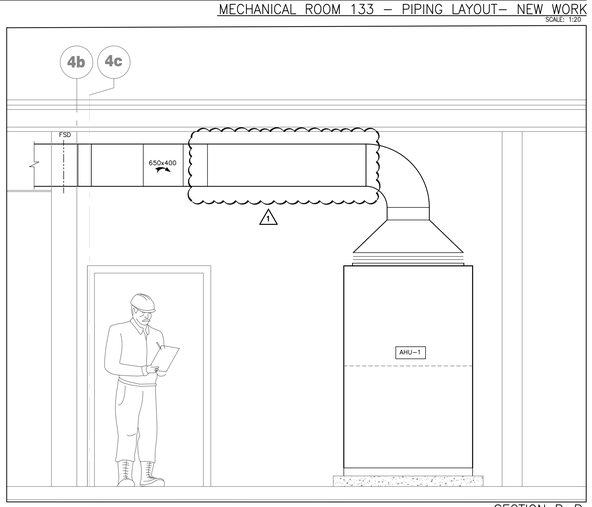
CDU–3 (AHU–1) REFRIGERANT PIPING SCHEMATIC DIAGRAM

N.T.S.



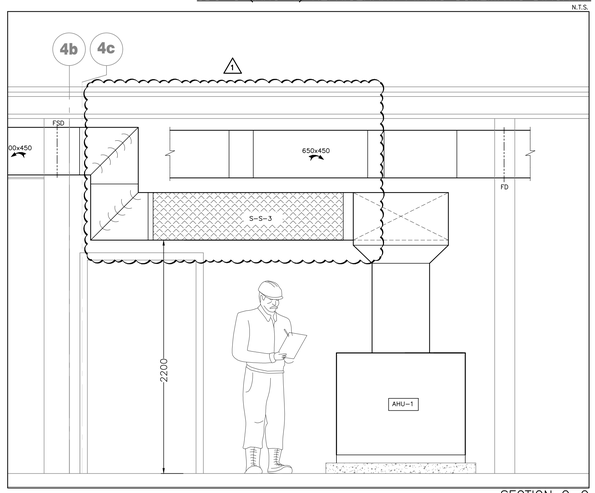
SECTION A–A

SCALE: 1:20



SECTION B–B

SCALE: 1:20



SECTION C–C

SCALE: 1:20

NEW WORK NOTES:

FOR REASONS OF CLARITY, THE ROOM LAYOUT DOES NOT SHOW ALL VALVES, FITTINGS AND SENSORS/GAUGES. FOR FULL EXTENT OF FITTINGS AND INSTRUMENTATION, REFER TO THE NEW PIPING SCHEMATIC AND CONTROL DIAGRAMS.

THE DRAWINGS DO NOT SHOW ALL STRUCTURAL ELEMENTS AND BUILDING SERVICES LOCATED IN THE FAN ROOM. COORDINATE WITH STRUCTURAL DRAWINGS.

THE SUPPLY AIR UNIT TO BE SUPPLIED IN SECTIONS IN ORDER TO FIT INTO THE FAN ROOM. THE AIR HANDLING EQUIPMENT SHALL BE ASSEMBLED ON SITE UNDER THE SUPERVISION OF THE MANUFACTURER'S TRAINED TECHNICIANS. AT THE CONCLUSION OF THE RE-ASSEMBLY WORK, THE MANUFACTURER'S TECHNICIANS SHALL ISSUE A REPORT CONFIRMING THAT THE EQUIPMENT HAS BEEN ASSEMBLED IN ACCORDANCE WITH THE FACTORY STANDARDS.

ALL INTERNAL WIRING OF THE NEW AIR HANDLING UNITS BY THE MANUFACTURER. ALL EXTERNAL WIRING BETWEEN THE UNIT AND EXTERNAL COMPONENTS BY THE CONTRACTOR.

CONNECT NEW EQUIPMENT TO POWER SOURCE (REFER TO ELECTRICAL DRAWINGS).

PROVIDE NEW CONCRETE PAD TO MATCH THE SIZE OF THE NEW UNIT.

PROVIDE ALL REQUIRED SUPPORTS FOR THE NEW DUCTWORK AND PIPES, INCLUDING HANGERS, FLOOR OR WALL SUPPORTS.

INSTALL NEW SENSORS AS SHOWN ON THE PIPING AND CONTROL SCHEMATIC. CONNECT TO THE EXISTING BAS.

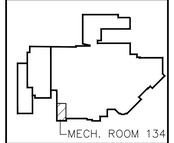
INSTALL SMOKE SENSORS IN THE DUCTS AND CONNECT TO POWER AND FIRE ALARM IN ACCORDANCE WITH THE ONTARIO FIRE CODE.

MAKE GOOD ALL SURFACES AFFECTED BY THE WORK. PAINT THE FLOOR AS PER THE SPECIFICATIONS.

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1st FLOOR
KEY PLAN

No.	REVISIONS	date
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02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH

TRUE NORTH

scale: AS SHOWN

consultant

LICENCED PROFESSIONAL ENGINEER
Until 2025
G. STRASHUN
PROVINCE OF ONTARIO

drawn: E.K./H.T.
last worked on: by
checked: G.S.
print date:

BJC
architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
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BURLINGTON ONTARIO

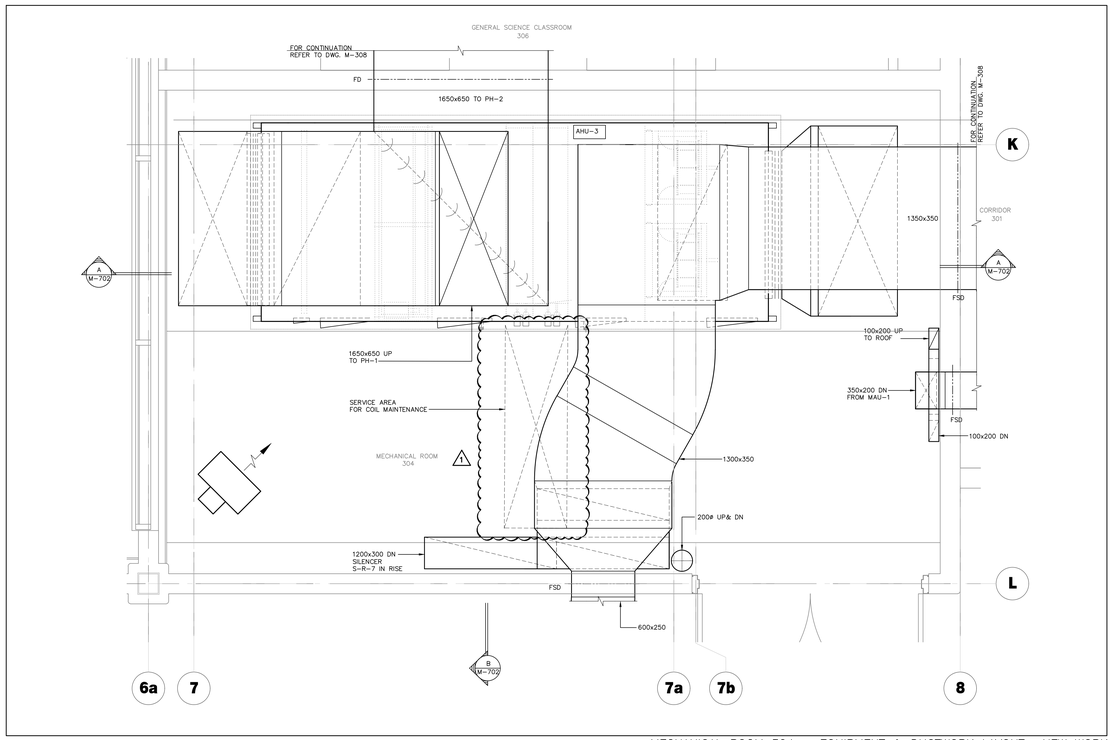
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
MECHANICAL ROOM 133 – NEW WORK

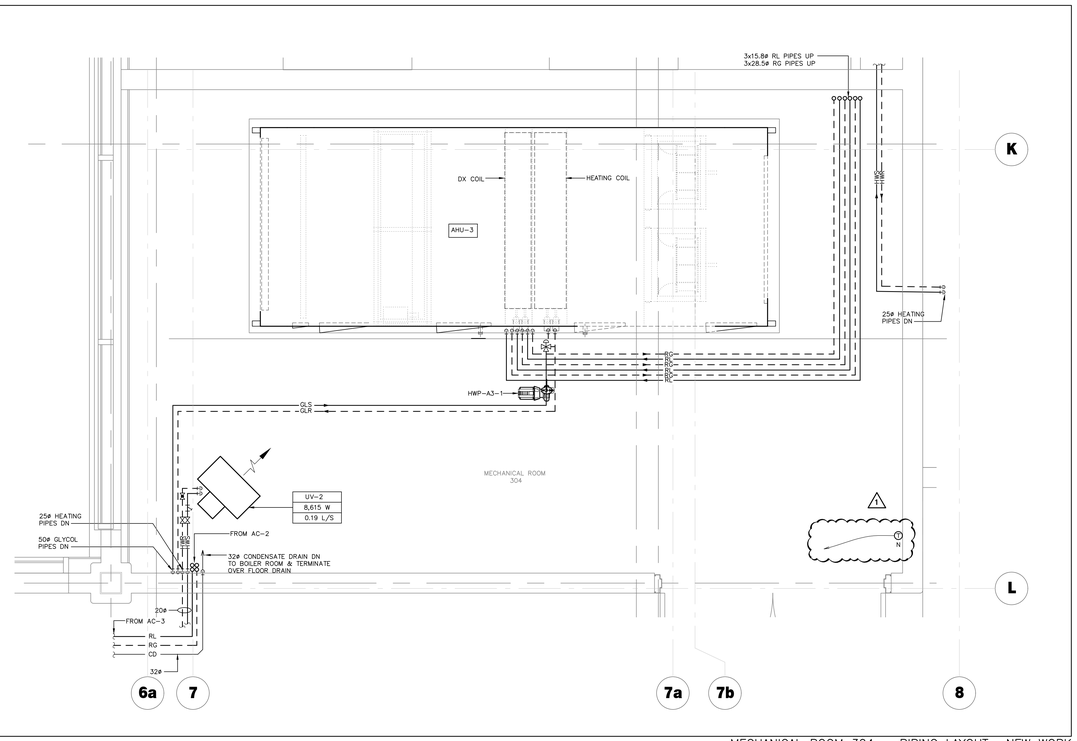
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client reference number

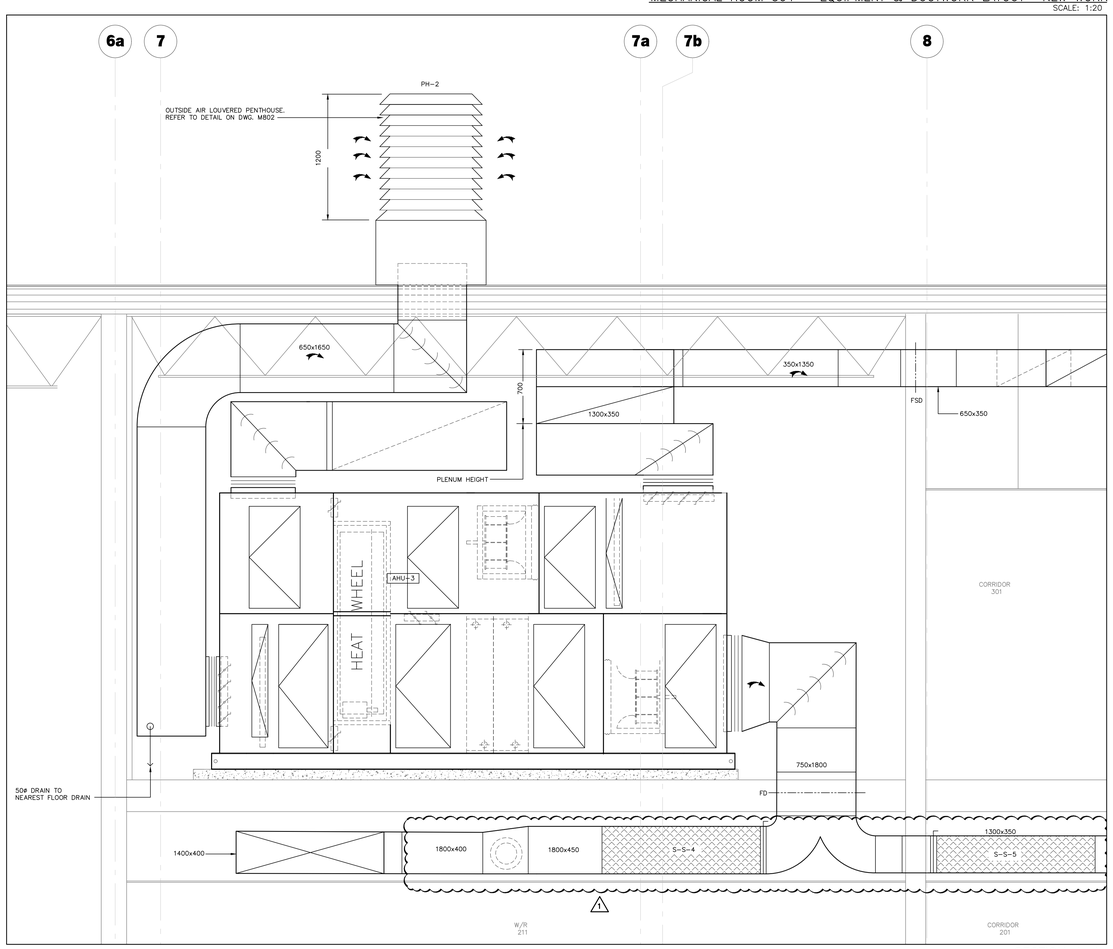
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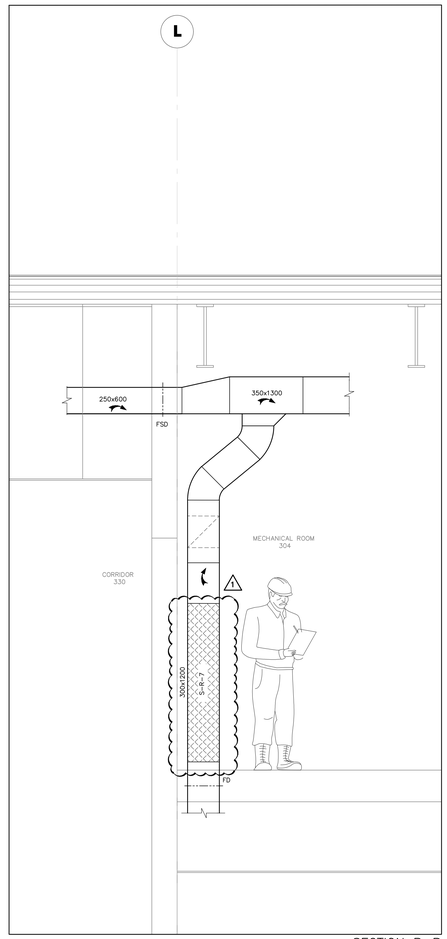
MECHANICAL ROOM 304 – EQUIPMENT & DUCTWORK LAYOUT– NEW WORK
SCALE: 1:20



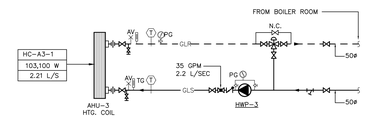
MECHANICAL ROOM 304 – PIPING LAYOUT– NEW WORK
SCALE: 1:20



SECTION A–A
SCALE: 1:20



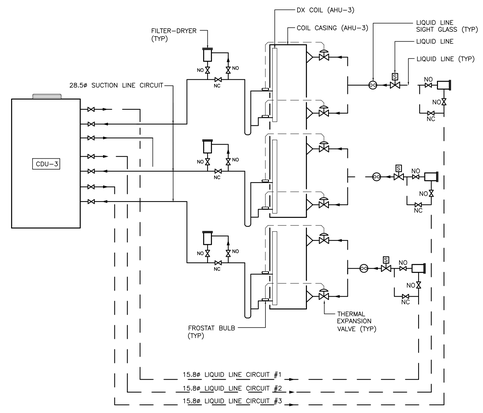
SECTION B–B
SCALE: 1:20



NOTES:

PROVIDE AIR VENTS AT THE HIGH LEVEL FOR ELIMINATION OF THE AIR FROM THE COIL AND PIPING.

HEATING COIL (AHU-3) PIPING SCHEMATIC DIAGRAM
N.T.S.



NOTES:

PROVIDE ALL NECESSARY CONTROL'S WIRING, REFRIGERANT ACCESSORIES AND POWER TO THE SOLENOID VALVES, INCLUDING STEP-DOWN TRANSFORMERS.

INSTALL THE REFRIGERANT PIPING OIL TRAPS, REFRIGERANT DISTRIBUTORS, TX VALVES, SOLENOID VALVES, ISOLATION VALVES, SENSING BULBS, FILTERS/DRYERS, SIGHT GLASSES AND OTHER ACCESSORIES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

PITCH THE LIQUID LINES SLIGHTLY (1:300) TOWARDS THE COILS, SO THAT THE REFRIGERANT DRAINS TOWARDS THE EVAPORATOR. PITCH THE SUCTION LINES SLIGHTLY (1:300) TOWARDS THE COILS, SO THAT ANY LIQUID ENTRAINED DRAINS BACK TOWARDS THE EVAPORATOR.

SLIGHTLY PITCH (1:300) THE OUTLET LINE FROM THE SUCTION HEADER TOWARDS THE SUCTION RISER IN THE DIRECTION OF FLOW. USE TUBE DIAMETER THAT MATCHES THE SUCTION-HEADER CONNECTION.

ARRANGE THE SUCTION LINE SO THAT THE REFRIGERANT GAS LEAVING THE COIL FLOWS DOWNWARDS PAST THE LOWEST SUCTION HEADER OUTLET, BEFORE TURNING UPWARDS. USE A DOUBLE ELBOW CONFIGURATION TO ISOLATE THE FROSTAT BULB FROM OTHER SUCTION HEADERS.

ENSURE THAT THE TOP OF THE SUCTION RISERS ARE ABOVE THE EVAPORATOR SECTIONS THEY SERVE.

SIZE ALL REFRIGERANT LINES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, BASED ON THE FINAL ROUTING AND LENGTH OF PIPING. ALL LINES TO BE SUPPORTED AND INSULATED AS INDICATED IN THE SPECIFICATIONS AND ON DETAILS ON DWG. M-1.

ALL SUCTION LINES TO BE INSULATED AS SPECIFIED; ON THE ROOF, PROVIDE JACKETING AND SADDLE SUPPORTS AS SPECIFIED.

CDU-6 (AHU-3) REFRIGERANT PIPING SCHEMATIC DIAGRAM
N.T.S.

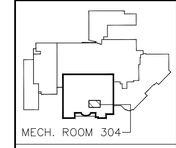
NOTES:

FOR NEW WORK NOTES REFER TO DRAWING M-701.

Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771



3rd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale: AS SHOWN

LICENSED PROFESSIONAL ENGINEER
G. STRASHUN
PROVINCE OF ONTARIO

drawn: E.K./H.T.
last worked on | by
checked: G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

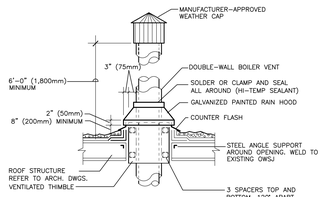
drawing title
MECHANICAL ROOM 304 – NEW WORK

reference
project no. 2024-21
client reference number
sheet no. M-702 00

THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

NOTE:

WEIGHT OF STACK SHLL BE SUPPORTED INDEPENDENTLY OF FLASHING OR BOILER.

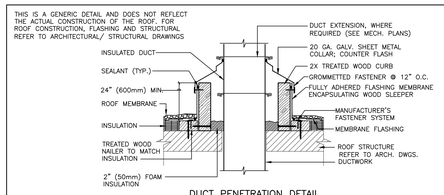


NOTE:

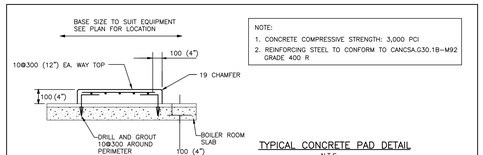
FOR FLASHING DETAILS AND ROOF STRUCTURE, REFER TO ARCHITECTURAL DETAILS. WHEN IN CONFLICT, ARCHITECTURAL DETAILS OVER–RIDE MECHANICAL DETAILS.

BOILER VENT ROOF PENETRATION
N.T.S.

THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS



DUCT PENETRATION DETAIL
N.T.S.

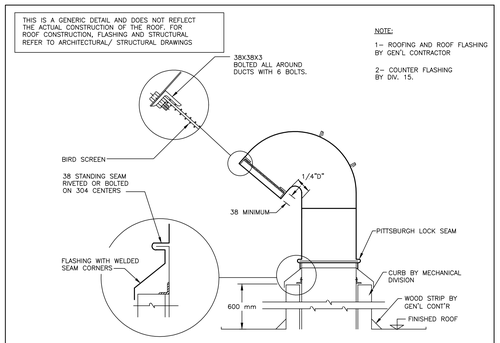


NOTE:
1. CONCRETE COMPRESSIVE STRENGTH: 3,000 PCI
2. REINFORCING STEEL TO CONFORM TO CANCSA.G30.1B–M92 GRADE 400 R

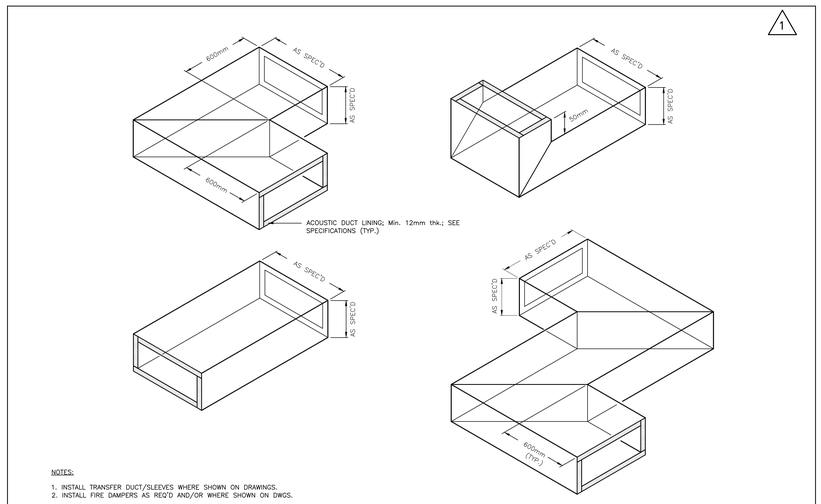
TYPICAL CONCRETE PAD DETAIL
N.T.S.

THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

NOTE:
1– ROOFING AND ROOF FLASHING BY GEN'L CONTRACTOR
2– COUNTER FLASHING BY DIV. 15.

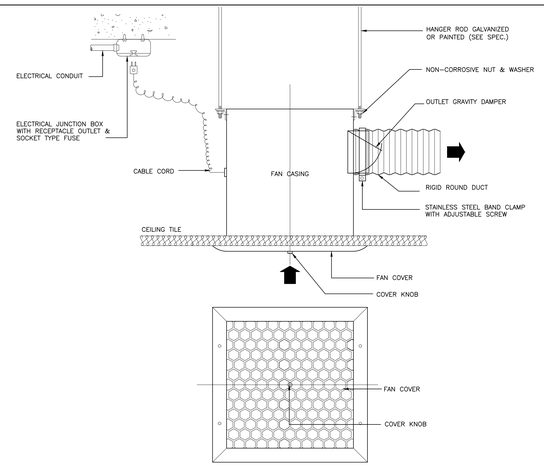


GOOSENECK THROUGH ROOF DETAIL
N.T.S.

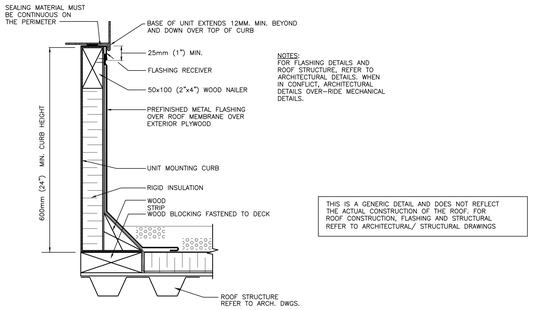


NOTES:
1. INSTALL TRANSFER DUCT/SLEEVES WHERE SHOWN ON DRAWINGS.
2. INSTALL FIRE DAMPERS AS REQ'D AND/OR WHERE SHOWN ON DWGS.

TYPICAL DETAIL OF ACOUSTICALLY LINED TRANSFER DUCTS
N.T.S.



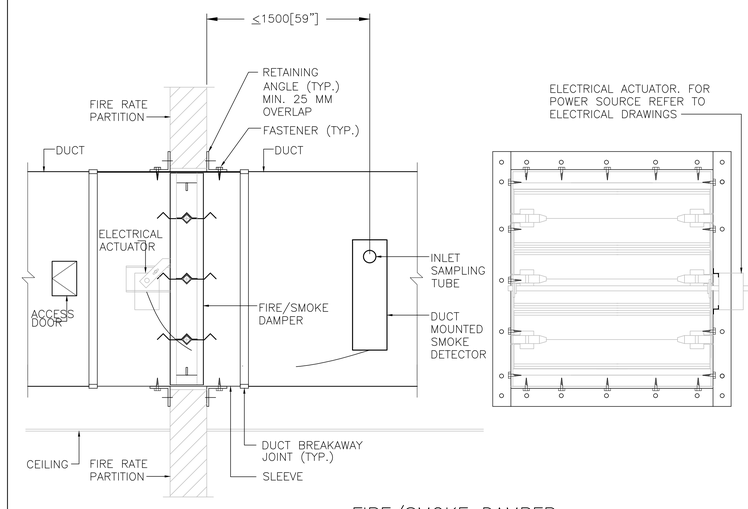
DETAIL OF CEILING EXHAUST FAN INSTALLATION
N.T.S.



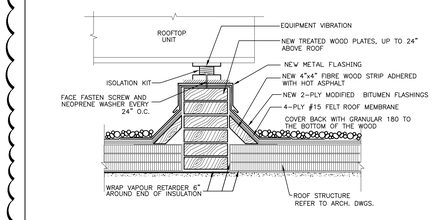
NOTES:
FOR FLASHING DETAILS AND ROOF STRUCTURE, REFER TO ARCHITECTURAL DETAILS. WHEN IN CONFLICT, ARCHITECTURAL DETAILS OVER–RIDE MECHANICAL DETAILS.

THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

CURB DETAIL FOR ROOF TOP UNIT
N.T.S.



FIRE/SMOKE DAMPER
N.T.S.

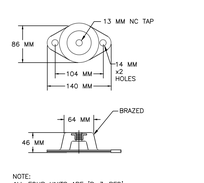


BASE SHEET : HOT MOPPED IN TYPE II ASPHALT, CONFORMING TO CAN 237–GP56M, TYPE 2, CLASS C, GRADE 2 – ELASTOPHENE 180 PS AS SUPPLIED BY SOPREMA OR AN APPROVED EQUIVALENT CAP SHEET : TORCHED OVER BASE SHEET CONFORMING TO CAN 237–GP56M, TYPE 1, CLASS A,B OR C – SOPRAENE FLAM 250 AS SUPPLIED BY SOPREMA OR AN APPROVED EQUIVALENT

SCRAPE BACK GRAVEL MIN. 18" (ON EACH SIDE) FROM LOCATION OF NEW SUPPORTS. PRIME EXISTING ROOF FELTS AND ALLOW TO DRY. INSTALL NEW WOOD BLOCKING AND 4"x4" FIBRE WOOD STRIP IN HOT ASPHALT, COMPLETE WITH 2–PLY MODIFIED BITUMEN FLASHING AND NEW PEA GRAVEL IN HOT ASPHALT

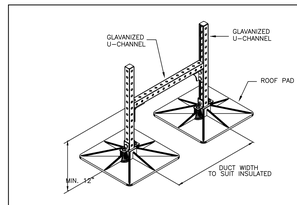
THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

NEW WOOD SLEEPER SUPPORT DETAIL
N.T.S.

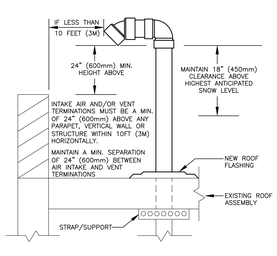


NOTE:
ALL FOUR UNITS ARE 'R–3–RED' TYPE.

NEOPRENE ISOLATOR
N.T.S.



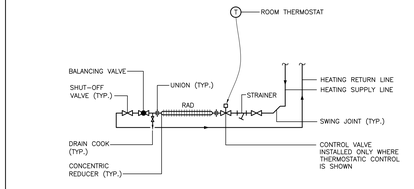
TYPICAL DUCT SUPPORT ON THE ROOF
N.T.S.

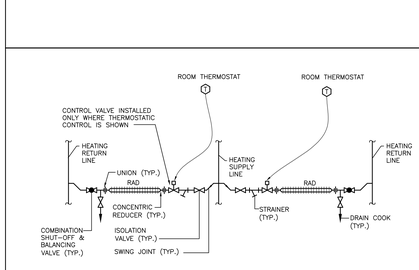


TYPICAL TERMINATIONS CLEARANCE

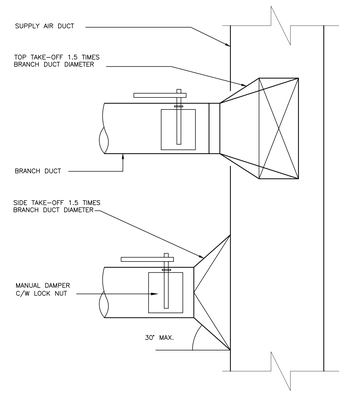
THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

(FOR INTAKE AIR AND/OR VENT)
N.T.S.





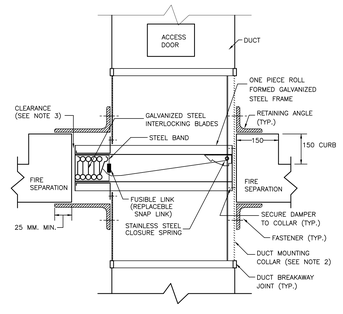
TYPICAL RADIATION CONNECTION
N.T.S.



NOTES

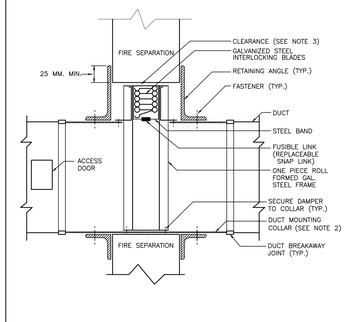
1) REFER TO FLOOR PLANS FOR BRANCH DUCT ARRANGEMENT
2) THIS DETAIL ONLY APPLIED TO RECTANGLE TO ROUND DUCTS
3) BOTTOM TAKE–OFF IS SIMILAR TO TOP TAKE–OFF

DETAIL OF BRANCH DUCT TAKE–OFF
N.T.S.



NOTES:
1. ASSEMBLY SHALL BE U.L.C. APPROVED AND SHALL BE TYPE 'B'.
2. DUCT MOUNTING COLLAR SHALL BE OF THE SAME GAUGE OR HEAVIER AS THE DUCT BUT SHALL NOT BE LIGHTER THAN 20 GAUGE.
3. CLEARANCE SHALL BE 9MM. PER METER ON HEIGHT AND WIDTH OF DAMPER TO A MAXIMUM OF 12 MM.

TYPICAL HORIZONTAL FIRE DAMPER
N.T.S.



NOTES:
1. ASSEMBLY SHALL BE U.L.C. APPROVED AND SHALL BE TYPE 'B'.
2. DUCT MOUNTING COLLAR SHALL BE OF THE SAME, GAUGE OR HEAVIER AS THE DUCT BUT SHALL NOT BE LIGHTER THAN 20 GAUGE.
3. CLEARANCE SHALL BE 9 MM PER METER ON HEIGHT AND WIDTH OF DAMPER TO A MAXIMUM OF 12 MM.

TYPICAL VERTICAL FIRE DAMPER
N.T.S.

Halton District School Board

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SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale NTS

signature: LICENCE PROFESSIONAL ENGINEER G. STRASHUN PROVINCE OF ONTARIO
drawn E.K./H.T.
last worked on by
checked G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

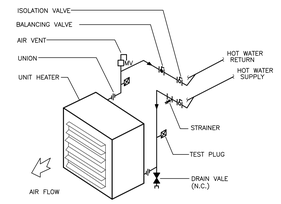
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
MECHANICAL DETAILS– LIST 1 OF 6

reference

project no. 2024–21
client reference number

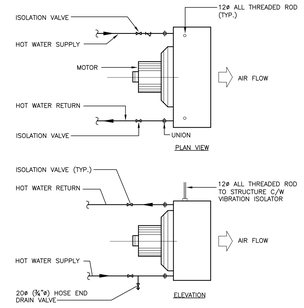
sheet no. M-801 00



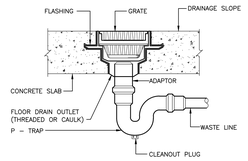
NOTE:

WALL MOUNTED THERMOSTAT SHALL MAINTAIN THE SPACE TEMPERATURE BY CYCLING THE FAN OPERATION.

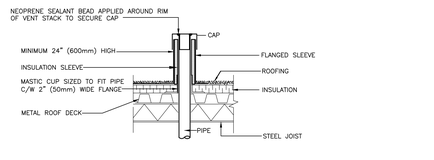
TYPICAL CONNECTIONS TO UNIT HEATER
N.T.S.



TYPICAL UNIT HEATER INSTALLATION
N.T.S.



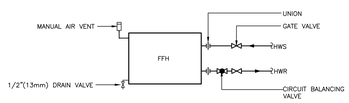
DETAIL OF FLOOR DRAIN INSTALLATION
N.T.S.



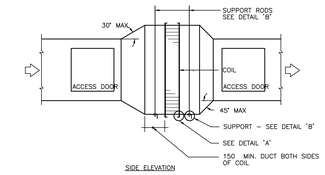
THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

DETAIL OF VENT STACK COVER
N.T.S.

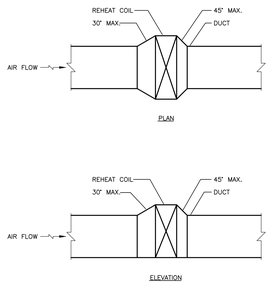
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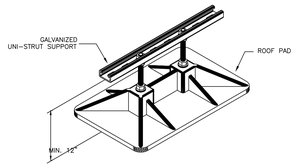
DETAIL FOR FORCE FLOW HEATER PIPING CONNECTION
N.T.S.



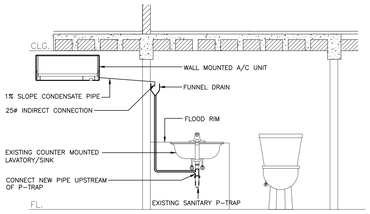
IN–DUCT REHEAT COIL INSTALLATION DETAIL
N.T.S.



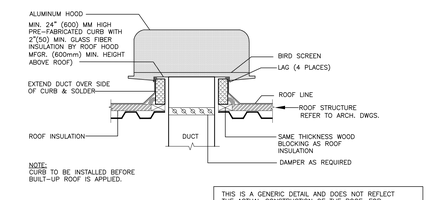
DUCT TRANSFORMATION WITH REHEAT COIL IN DUCT
N.T.S.



TYPICAL PIPE SUPPORT ON THE ROOF
N.T.S.



TYPICAL CONDENSATE DRAIN CONNECTION DETAIL
N.T.S.



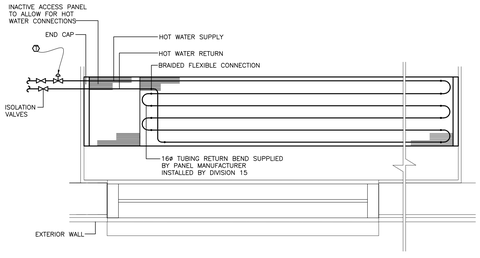
NOTE:
CURB TO BE INSTALLED BEFORE BUILT–UP ROOF IS APPLIED.

THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

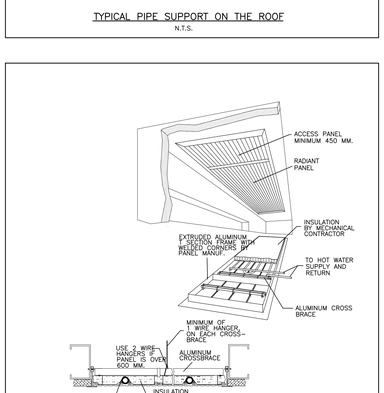
ROOF HOOD DETAIL
N.T.S.

GENERAL NOTES:

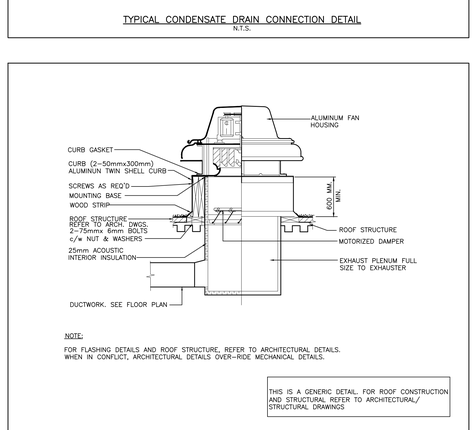
1. RADIANT PANEL DRAWING, ARCHITECTURAL DRAWING AND MECHANICAL DRAWINGS MUST BE CONSULTED BEFORE INSTALLATION BEGINS. REFER TO MECHANICAL DRAWINGS FOR PIPE SIZES AND VALVE LOCATIONS. ANY PANEL INSTALLED AGAINST EXTERIOR WALLS SHOULD HAVE THE FIRST SUPPLIED NEAREST THE WALL.
2. INSTALL RADIANT PANELS WITH FEMALE EDGE TOWARD EXTERIOR WALL PLEASE NOTE THAT ALL PANELS ARE MADE WITH A RED LABEL INDICATING FEMALE EDGE.
3. ALL RADIANT PANELS MUST HAVE AT LEAST ONE TIE WIRE ON EACH CROSS BRACE.
4. CROSS BACING ON RADIANT PANELS:
   2 BRACES – UP TO 1500mm (5 ft)
   3 BRACES – 1501mm TO 3360mm (11 ft)
   4 BRACES – 3361mm TO 4275mm (14 ft)
   5 BRACES – 4276mm TO 4887mm (16 ft)
5. PANEL SIZES SHALL BE FABRICATED AND PRECUT AT FACTORY. SITE MEASURE DIMENSIONS PRIOR TO FABRICATION.



RADIANT PANELS DETAIL
N.T.S.



RADIANT PANELS DETAIL
N.T.S.

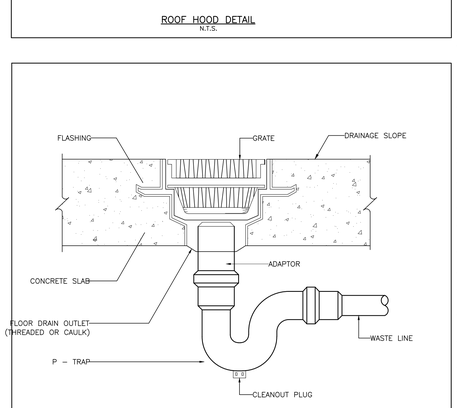


NOTE:

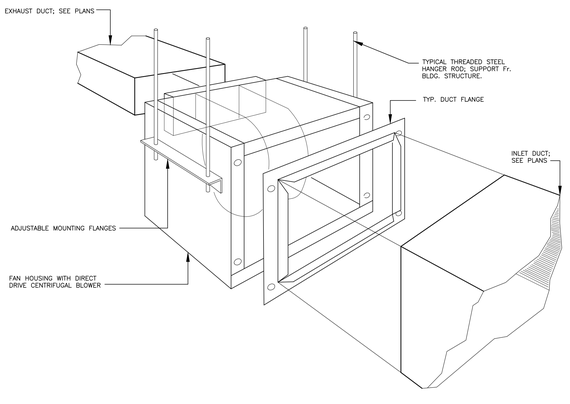
FOR FLASHING DETAILS AND ROOF STRUCTURE, REFER TO ARCHITECTURAL DETAILS. WHEN IN CONFLICT, ARCHITECTURAL DETAILS OVER–RIDE MECHANICAL DETAILS.

THIS IS A GENERIC DETAIL. FOR ROOF CONSTRUCTION AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

TYPICAL CENTRIFUGAL ROOF EXHAUST FAN
N.T.S.

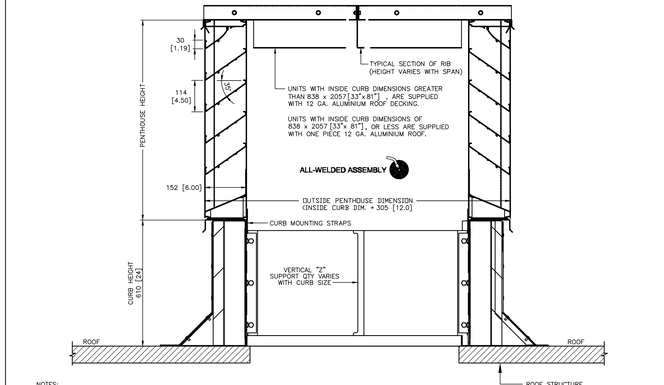


FLOOR DRAIN
N.T.S.



DETAIL OF IN–LINE EXHAUST FAN INSTALLATION
N.T.S.

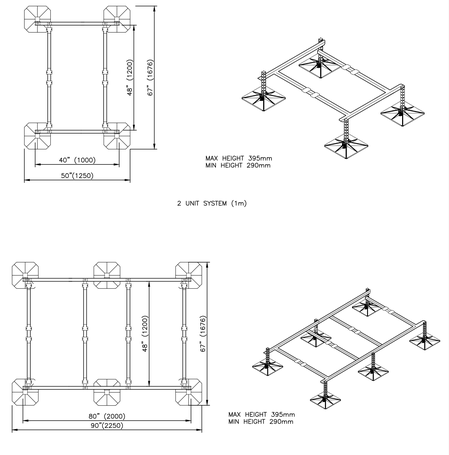
THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS



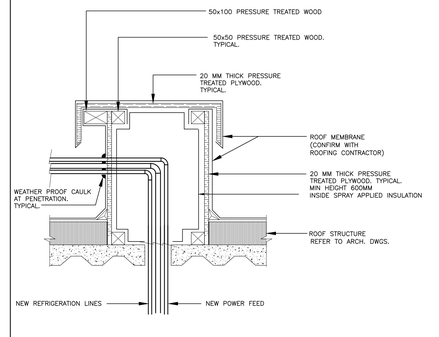
NOTES:

REFER TO ARCHITECTURAL DETAILS FOR FLASHING AND ROOF STRUCTURE SPECIFICS. ARCHITECTURAL DETAILS SUPERSEDE MECHANICAL DETAILS IN ANY CONFLICT. FOR ROOF CONSTRUCTION AND STRUCTURAL INFORMATION, CONSULT ARCHITECTURAL/STRUCTURAL DRAWINGS.

LOUVERED PENTHOUSE – VERTICAL SECTION
N.T.S.



BIG FOOT FRAMEWORK
N.T.S.



THIS IS A GENERIC DETAIL AND DOES NOT REFLECT THE ACTUAL CONSTRUCTION OF THE ROOF. FOR ROOF CONSTRUCTION, FLASHING AND STRUCTURAL REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS

DOG HOUSE DETAIL FOR PIPE AND CONDUITS THROUGH ROOF DECK
N.T.S.

Halton District School Board

CONTRACTOR'S SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale NTS

consultant: LICENSED PROFESSIONAL ENGINEER G. STRASHUN PROVINCE OF ONTARIO April 2025

drawn E.K./H.T. | last worked on | by | checked G.S. | print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

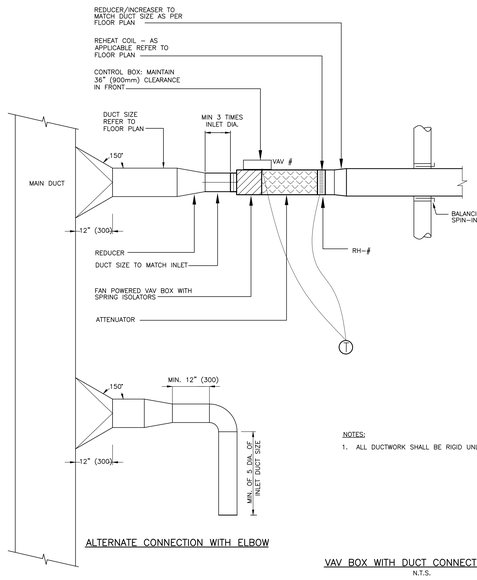
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
MECHANICAL DETAILS– LIST 2 OF 6

reference

project no. 2024–21 | client reference number

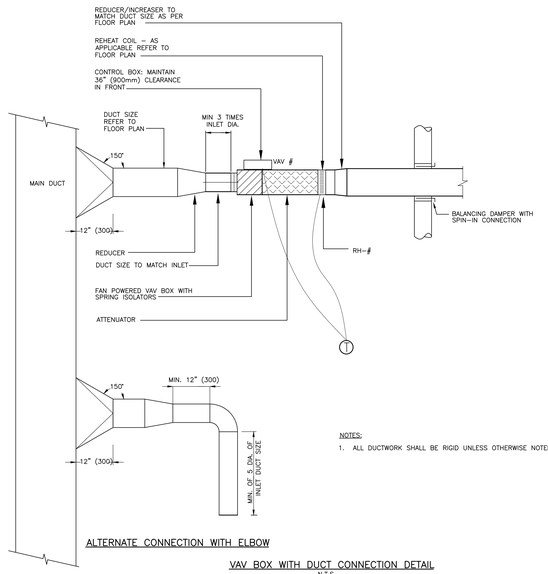
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ALTERNATE CONNECTION WITH ELBOW

VAV BOX WITH DUCT CONNECTION DETAIL
N.T.S.

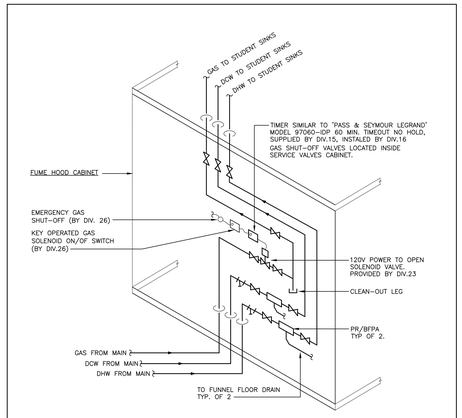
NOTES:
1. ALL DUCTWORK SHALL BE RIGID UNLESS OTHERWISE NOTED.



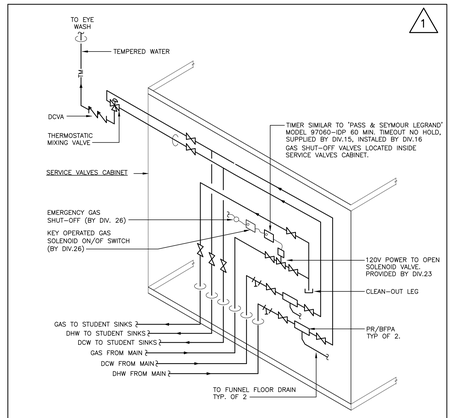
ALTERNATE CONNECTION WITH ELBOW

VAV BOX WITH DUCT CONNECTION DETAIL
N.T.S.

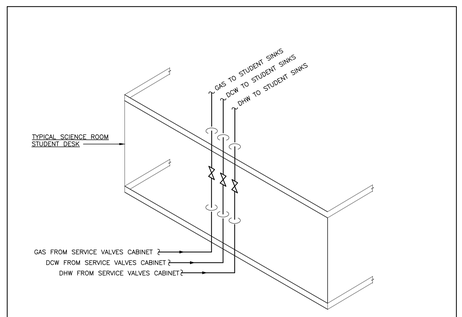
NOTES:
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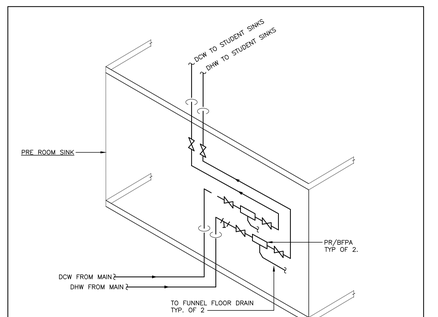
GAS, DCW & DHW PIPING SCHEMATIC DIAGRAM FOR FUME HOOD CABINET
N.T.S.



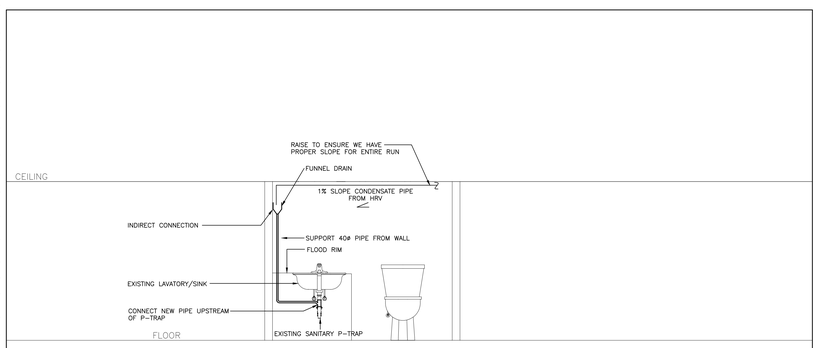
GAS, DCW & DHW PIPING SCHEMATIC DIAGRAM FOR SERVICE VALVES CABINET
N.T.S.



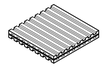
GAS, DCW & DHW PIPING SCHEMATIC DIAGRAM FOR TYPICAL STUDENT SCIENCE DESK
N.T.S.



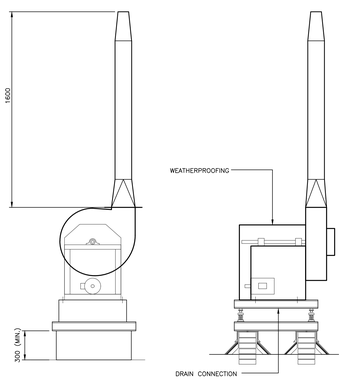
GAS, DCW & DHW PIPING SCHEMATIC DIAGRAM FOR PRE ROOM SINK
N.T.S.



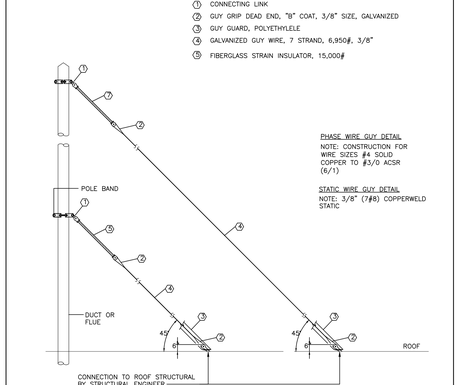
TYPICAL CONDENSATE DRAIN CONNECTION DETAIL
N.T.S.



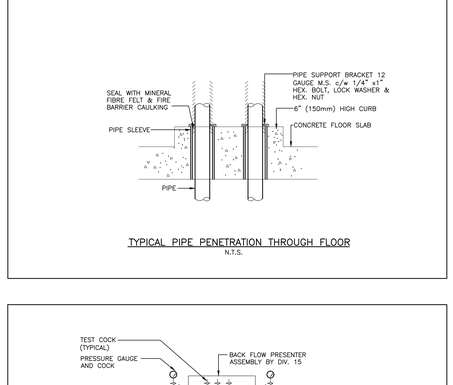
NEOPRENE PAD SUPPORT
N.T.S.



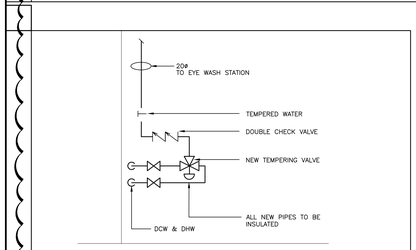
DETAIL OF CENTRIFUGAL FUME EXHAUST FAN
N.T.S.



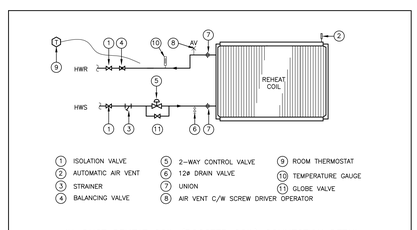
GUY DETAIL
N.T.S.



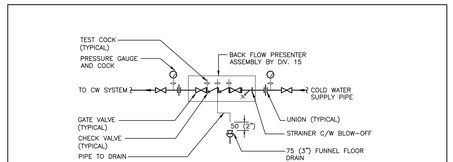
TYPICAL PIPE PENETRATION THROUGH FLOOR
N.T.S.



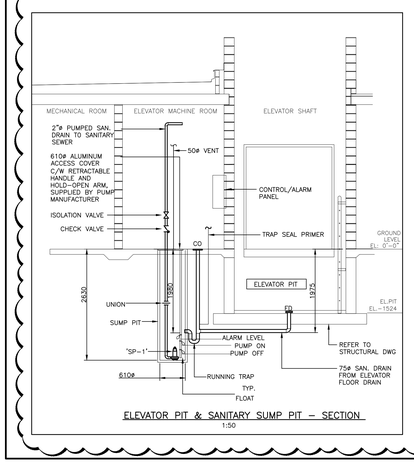
EYE WASHER STATION
N.T.S.



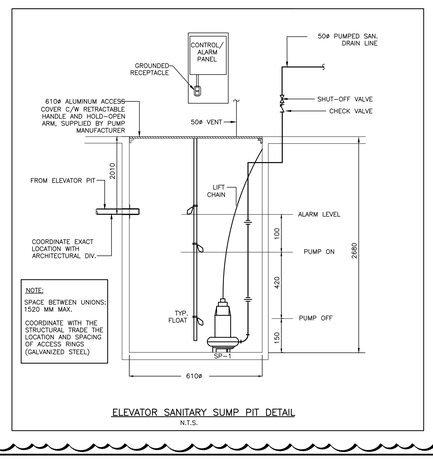
IN-DUCT REHEAT COIL (BOOSTER COIL) CONNECTION DETAIL
N.T.S.



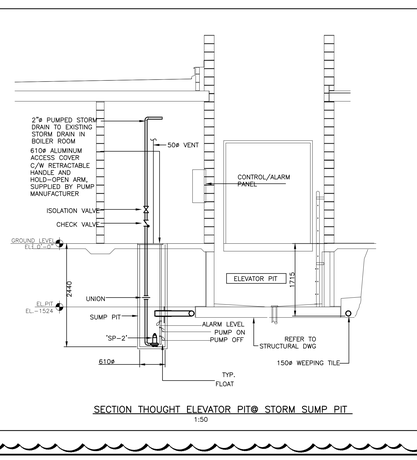
BACK FLOW PREVENTER ASSEMBLY DETAIL
N.T.S.



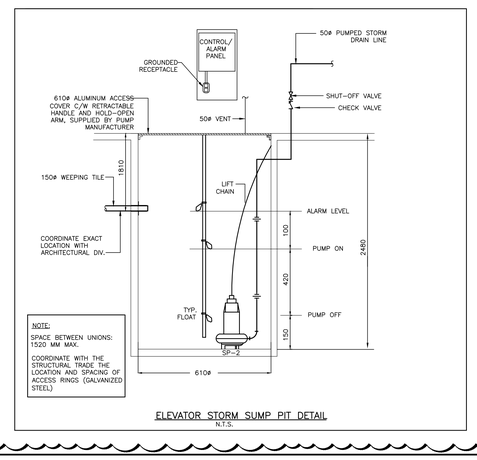
ELEVATOR PIT & SANITARY SUMP PIT – SECTION
1:50



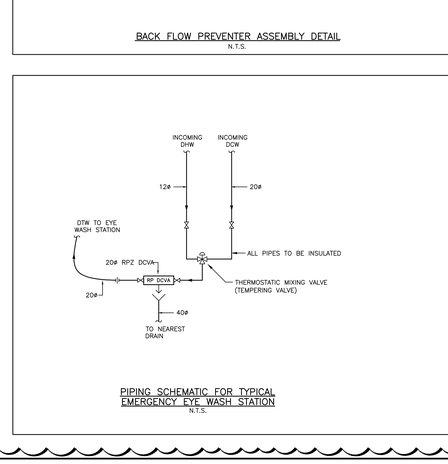
ELEVATOR SANITARY SUMP PIT DETAIL
N.T.S.



SECTION THOUGHT ELEVATOR PIT@ STORM SUMP PIT
1:50



ELEVATOR STORM SUMP PIT DETAIL
N.T.S.



PIPING SCHEMATIC FOR TYPICAL EMERGENCY EYE WASH STATION
N.T.S.

Halton District School Board

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SAB ENGINEERING Inc.
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No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale NTS

consultant: LICENSED PROFESSIONAL ENGINEER G. STRASHUN PROVINCE OF ONTARIO

drawn E.K./H.T.
last worked on by
checked G.S.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE BURLINGTON ONTARIO

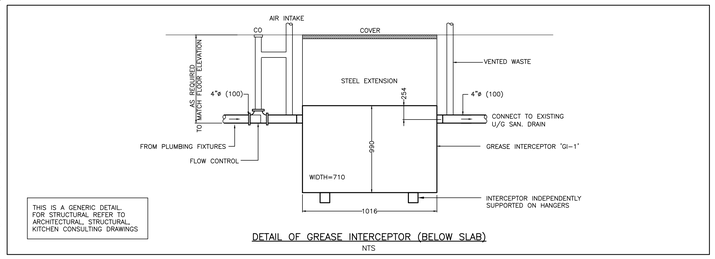
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE. MILTON ONTARIO

drawing title
MECHANICAL DETAILS– LIST 3 OF 6

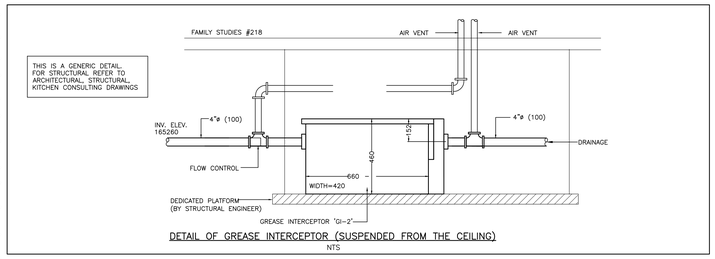
reference

project no. 2024-21
client reference number

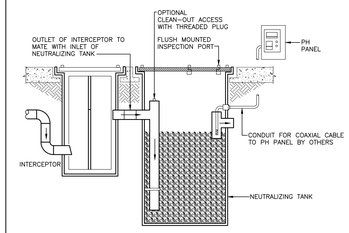
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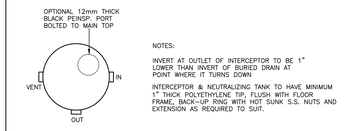


DETAIL OF GREASE INTERCEPTOR (BELOW SLAB)
NTS



DETAIL OF GREASE INTERCEPTOR (SUSPENDED FROM THE CEILING)
NTS





NOTES:

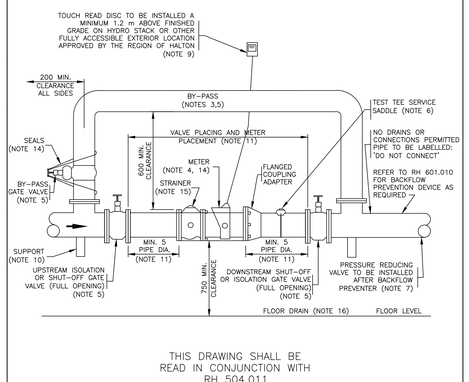
INVERT AT OUTLET OF INTERCEPTOR TO BE 1" LOWER THAN INVERT OF BURIED DRAIN AT POINT WHERE IT TURNS DOWN

INTERCEPTOR & NEUTRALIZING TANK TO HAVE MINIMUM 1" THICK POLYETHYLENE TIP, FLUSH WITH FLOOR FRAME, BACK-UP RING WITH HOT SUNK S.S. NUTS AND EXTENSION AS REQUIRED TO SUIT.

DETAIL OF ACID NEUTRALIZING CENTRAL SYSTEM
N.T.S.

FOR 75–200 MM NEW MULTI–RESIDENTIAL/ COMMERCIAL/ INDUSTRIAL WATER METER INSTALLATION ONLY

MATERIALS	
SUPPLIED BY REGION	SUPPLIED & INSTALLED BY OTHERS
75–200mm WATER METER C/W TOUCH READ DISC COMPANION FLANGES (AS REQUIRED FOR METER) GASKETS AND FASTENERS REMOTE WIRE 75–200MM STRAINER	ALL PIPE FITTINGS REQUIRED FOR INSTALLATION INCLUDING VALVES



THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RH 504.011

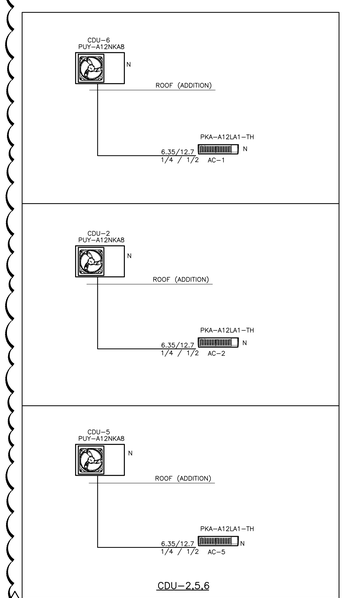
THE REGIONAL MUNICIPALITY OF HALTON PUBLIC WORKS DEPARTMENT	Date JULY 2017	Rev. 0	NTS
STANDARD 75–200 MM WATER METER INSTALLATION (NEW MULTI–RESIDENTIAL/ COMMERCIAL/INDUSTRIAL)			
	REGION STANDARD	RH 504.010	

STANDARD 75–200 MM NEW MULTI–RESIDENTIAL/ COMMERCIAL/INDUSTRIAL METER INSTALLATION ONLY ALL NOTES AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH RH 504.010

NOTES:

1. AS THE WATER PURVEYOR, HALTON REGION DOES NOT CONSENT TO ANY POTABLE WATER SYSTEM CONNECTING TO THE MUNICIPAL DRINKING WATER SYSTEM WITHOUT A WATER METER AND AN APPROPRIATE BACKFLOW PREVENTION DEVICE BEING INSTALLED, OR THE APPROVAL OF THE COMMISSIONER OF PUBLIC WORKS.
2. THE INSTALLATION OF THE METER, INCLUDING THE PIPING THAT IS PART OF THE METER INSTALLATION AND THE VALVING ARRANGEMENT FOR THE METER INSTALLATION, SHALL BE ACCORDING TO HALTON REGION'S REQUIREMENTS AND IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
3. THE WATER METER AND BACKFLOW PREVENTION DEVICE INSTALLATION AND SURROUNDING PIPING IS TO REMAIN FULLY ACCESSIBLE AT ALL TIMES WITH NO OBSTRUCTIONS PERMITTED. BYPASS PIPING MAY BE INSTALLED IN THE HORIZONTAL OR VERTICAL POSITION AND SHALL BE INSTALLED WITH A MINIMUM OF 600 MM CLEARANCE FROM THE OUTSIDE OF THE BYPASS PIPE TO THE NEAREST WALL OR CEILING. THE WATER METER SHALL BE INSTALLED AT A MINIMUM DISTANCE OF 600MM FROM BEHIND THE METER MAINCASE TO THE NEAREST WALL.
4. ALL WATER METERS ARE TO BE INSTALLED IN THE HORIZONTAL POSITION AND ACCORDING TO THE MANUFACTURERS INSTALLATION INSTRUCTIONS. THE TYPES OF METERS THAT WILL BE PROVIDED BY THE REGION CAN BE OF THE TURBINE, COMPOUND, ELECTROMAGNETIC OR ULTRASONIC TYPE. ALL BACKFLOW PREVENTION DEVICES ARE TO BE INSTALLED DOWNSTREAM OF THE WATER METER AND BY–PASS, WITH NO CONNECTIONS OR TEES AND SHALL BE INSTALLED AS PER CSA AND MANUFACTURERS INSTALLATION INSTRUCTIONS.
5. ALL PIPING, INCLUDING BY–PASS PIPE, TEES, BENDS AND VALVES WITH THE EXCEPTION OF THE TEST TEE SHALL BE THE SAME DIAMETER AS THE INCOMING WATER SERVICE PIPE. PIPE REDUCERS REQUIRED TO ACCOMMODATE A SMALLER WATER METER THAN THE WATER SERVICE PIPE SHALL BE INSTALLED BETWEEN THE INLET AND OUTLET VALVES AND SHALL BE OF THE CONCENTRIC TYPE. ALL VALVES 75 MM AND GREATER SHALL BE OS&Y GATE VALVES CONFORMING TO AWWA C515–15.
6. THE TEST TEE/SERVICE SADDLE AND VALVE SHALL BE LOCATED DOWNSTREAM OF THE WATER METER AT LEAST 3 X PIPE DIAMETERS AFTER THE OUTLET OF THE WATER METER AND 2 X PIPE DIAMETER FROM THE OUTLET VALVE. THE VALVE MAY BE EITHER A THREADED BALL OR GATE VALVE AND A PLUG WILL BE INSTALLED IN THE OUTLET OF THE VALVE. A 50 MM (2") VALVE WILL BE INSTALLED FOR 75 AND 100 MM WATER METERS AND A 64MM (2 ½") VALVE WILL BE INSTALLED FOR 150 MM AND 200 MM WATER METERS.
7. THE CONTRACTOR/DESIGNER IS TO DETERMINE IF A PRESSURE REDUCING VALVE TO LIMIT THE STATIC MAXIMUM STATIC PRESSURE TO 550 KPA (80 PSI) IS REQUIRED, AND IF NEEDED, IS TO ENSURE IT IS INSTALLED AFTER THE BACKFLOW PREVENTER.
8. ALL PIPING SHALL BE TYPE "L" COPPER (CERTIFIED TO ASTM B88), CEMENT LINED DUCTILE IRON PIPE (CERTIFIED TO ANSI/AWWA C115/A21.15 OR C51/A21.51); CEMENT LINING CERTIFIED TO ANSI/AWWA C104/A21.4; FITTINGS CERTIFIED TO ANSI/AWWA C110/A21.10) OR STAINLESS STEEL PIPE RATED TO A MINIMUM WORKING PRESSURE OF 1100 KPA. ALL VALVES AND FITTINGS SHALL BE RATING WITH A MINIMUM WORKING PRESSURE OF 1100 KPA.
9. THE TOUCH READING PAD AND 3 CONDUCTOR 20 GAUGE WIRE ARE TO BE SECURED TO THE HYDRO STACK WITH PLASTIC BRACKET (HYDRO ONE APPROVED) OR FLUSH MOUNTED TO THE WALL IN A FULLY ACCESSIBLE EXTERIOR AREA, AND SHALL BE INSTALLED A MINIMUM OF 1.2 M ABOVE FINISHED GRADE AS APPROVED BY THE REGION OF HALTON. THE REMOTE TOUCHPAD WIRE SHALL BE CONNECTED TO THE WATER METER USING ALL 3 TERMINALS AND COLOUR MATCHED TO THE WATER METER TERMINAL I.E. RED – RED, GREEN – GREEN, BLACK – BLACK. THE WIRE SHALL BE RUN NEATLY AND FASTENED EVERY 600MM TO THE SURROUNDING PIPEWORK AND STRUCTURE USING APPROVED MATERIALS FOR WIRING SYSTEMS I.E. ZIP TIES, WIRING STAPLES.
10. MECHANICAL SUPPORTS WILL BE INSTALLED AS NECESSARY TO THE WATER SERVICE PIPE AND FLANGES AROUND THE WATER METER. THE WATER METER ITSELF IS NOT TO BE SUPPORTED TO PREVENT DAMAGE TO THE METER MAINCASE.
11. THE METER SHALL BE LOCATED 5 X PIPE DIAMETERS FROM THE INLET VALVE AND 3 X PIPE DIAMETERS FROM THE TEST TEE AND VALVE. THE OUTLET VALVE SHALL BE LOCATED AT LEAST 2 X PIPE DIAMETERS FROM THE TEST TEE AND VALVE.
12. THE MAIN DISTRIBUTION SHUT OFF VALVE MUST BE INSTALLED AND OPERATIONAL PRIOR TO INSTALLATION OF THE METER.
13. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
14. THE METER AND BYPASS VALVE SHALL BE SEALED BY THE REGION.
15. AN APPROVED STRAINER WILL BE PROVIDED BY THE REGION AND WILL BE BOLTED DIRECTLY TO THE INLET SIDE OF THE WATER METER.
16. PROVISIONS ARE TO BE MADE FOR DISPOSAL OF WATER USED FOR IN–SITU TESTING EITHER THROUGH THE FLOOR DRAIN OR 125 MM FERRULE THROUGH THE WALL.
17. THE WATER SERVICE PIPE SHALL BE FLUSHED AFTER INSTALLATION OF BUILDING CONTROL VALVE AND PRIOR TO INSTALLATION OF METER IDLER (SPACER) OR WATER METER.

THE REGIONAL MUNICIPALITY OF HALTON PUBLIC WORKS DEPARTMENT	Date JULY 2017	Rev. 0	NTS
STANDARD 75–200 MM WATER METER INSTALLATION (NEW MULTI–RESIDENTIAL/ COMMERCIAL/INDUSTRIAL)			
	REGION STANDARD	RH 504.011	



CDU–2,5,6

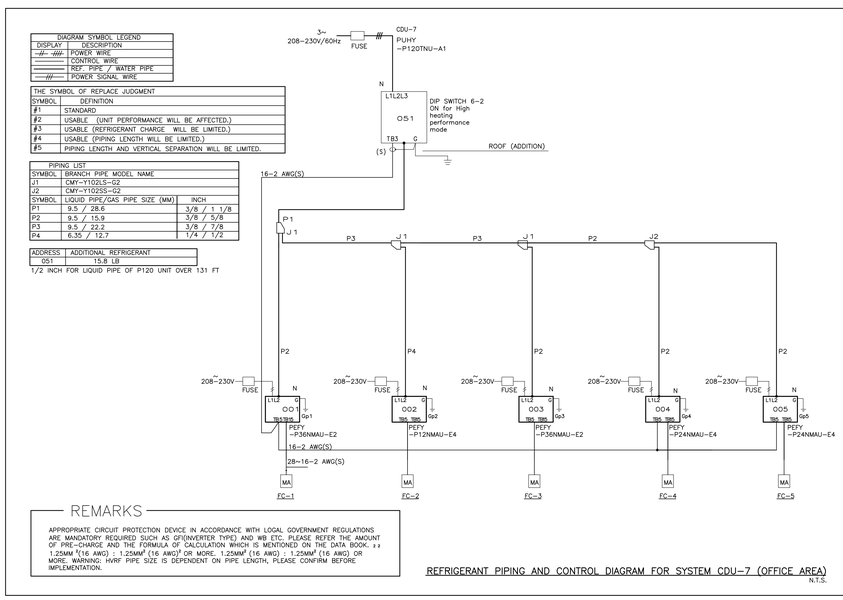
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
-#- -###	POWER WIRE
———	CONTROL WIRE
———	REF. PIPE / WATER PIPE
-///	POWER SIGNAL WIRE

THE SYMBOL OF REPLACE JUDGMENT	
SYMBOL	DEFINITION
#1	STANDARD
#2	USABLE (UNIT PERFORMANCE WILL BE AFFECTED.)
#3	USABLE (REFRIGERANT CHARGE WILL BE LIMITED.)
#4	USABLE (PIPING LENGTH WILL BE LIMITED.)
#5	PIPING LENGTH AND VERTICAL SEPARATION WILL BE LIMITED.

PIPING LIST		
SYMBOL	BRANCH PIPE MODEL NAME	
J1	CMY–Y102LS–G2	
J2	CMY–Y102SS–G2	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE (MM)	INCH
P1	9.5 / 28.6	3/8 / 1 1/8
P2	9.5 / 15.9	3/8 / 5/8
P3	9.5 / 22.2	3/8 / 7/8
P4	6.35 / 12.7	1/4 / 1/2

ADDRESS	ADDITIONAL REFRIGERANT
051	15.8 LB

1/2 INCH FOR LIQUID PIPE OF P120 UNIT OVER 131 FT



REMARKS

APPROPRIATE CIRCUIT PROTECTION DEVICE IN ACCORDANCE WITH LOCAL GOVERNMENT REGULATIONS ARE MANDATORY REQUIRED SUCH AS GFI(INVERTER TYPE) AND WB ETC. PLEASE REFER THE AMOUNT OF PRE–CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK. ※1 1.25MM²(16 AWG) : 1.25MM² (16 AWG)+ OR MORE, 1.25MM² (16 AWG) : 1.25MM² (16 AWG) OR MORE. WARNING: HVRF PIPE SIZE IS DEPENDENT ON PIPE LENGTH, PLEASE CONFIRM BEFORE IMPLEMENTATION.

REFRIGERANT PIPING AND CONTROL DIAGRAM FOR SYSTEM CDU–7 (OFFICE AREA)
N.T.S.

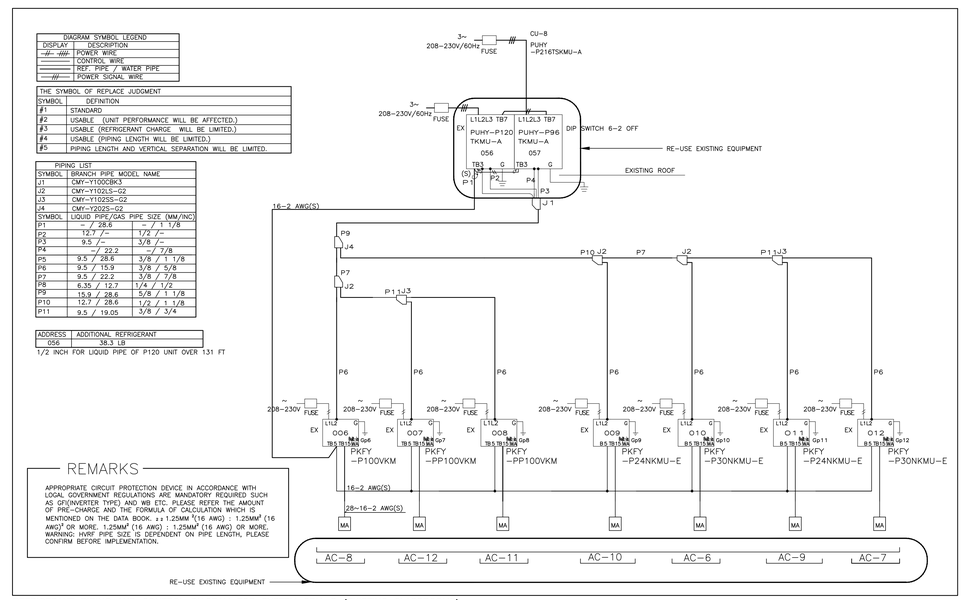
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
-#- -###	POWER WIRE
———	CONTROL WIRE
———	REF. PIPE / WATER PIPE
-///	POWER SIGNAL WIRE

THE SYMBOL OF REPLACE JUDGMENT	
SYMBOL	DEFINITION
#1	STANDARD
#2	USABLE (UNIT PERFORMANCE WILL BE AFFECTED.)
#3	USABLE (REFRIGERANT CHARGE WILL BE LIMITED.)
#4	USABLE (PIPING LENGTH WILL BE LIMITED.)
#5	PIPING LENGTH AND VERTICAL SEPARATION WILL BE LIMITED.

PIPING LIST		
SYMBOL	BRANCH PIPE MODEL NAME	
J1	CMY–Y100BK3	
J2	CMY–Y102LS–G2	
J3	CMY–Y102SS–G2	
J4	CMY–Y202S–G2	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE (MM/INC)	
P1	–/ 28.6	–/ 1 1/8
P2	12.7 /–	1/2 /–
P3	9.5 /–	3/8 /–
P4	–/ 22.2	–/ 7/8
P5	9.5 / 28.6	3/8 / 1 1/8
P6	9.5 / 15.9	3/8 / 5/8
P7	9.5 / 22.2	3/8 / 7/8
P8	6.35 / 12.7	1/4 / 1/2
P9	15.9 / 28.6	5/8 / 1 1/8
P10	12.7 / 28.6	1/2 / 1 1/8
P11	9.5 / 19.05	3/8 / 3/4

ADDRESS	ADDITIONAL REFRIGERANT
056	38.3 LB

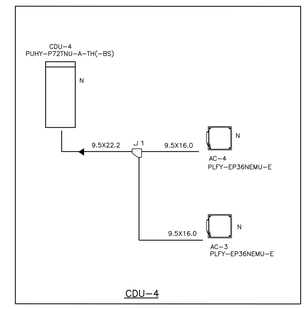
1/2 INCH FOR LIQUID PIPE OF P120 UNIT OVER 131 FT



REMARKS

APPROPRIATE CIRCUIT PROTECTION DEVICE IN ACCORDANCE WITH LOCAL GOVERNMENT REGULATIONS ARE MANDATORY REQUIRED SUCH AS GFI(INVERTER TYPE) AND WB ETC. PLEASE REFER THE AMOUNT OF PRE–CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK. ※1 1.25MM²(16 AWG) : 1.25MM² (16 AWG)+ OR MORE, 1.25MM² (16 AWG) : 1.25MM² (16 AWG) OR MORE. WARNING: HVRF PIPE SIZE IS DEPENDENT ON PIPE LENGTH, PLEASE CONFIRM BEFORE IMPLEMENTATION.

REFRIGERANT PIPING AND CONTROL DIAGRAM FOR SYSTEM CDU–8 (EXISTING CLASSROOMS)



CDU–4

1

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM #3	MAY/07/26
02	ISSUED FOR TENDER	APR/16/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale NTS

Halton District School Board

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SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
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consultant: LICENCED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO — G.STRASHUN — April 2025

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checked	G.S.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
MECHANICAL DETAILS– LIST 4 OF 6

reference

project no.	client reference number
2024–21	

sheet no.
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