

LGA Architectural Partners 310 Spadina Avenue, Suite 100B Toronto, Ontario, Canada M5T 2E8

TENDER 7119-KP-21 - Addendum #4

Project: Elmira District S.S. - Window, Roof, HVAC & Sanitary Upgrades

Project No.: 20931

Date: 2021.03.29

The following information supplements and/or supersedes the bid documents **ISSUED FOR TENDER dated 2021.03.17**

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof.

Addenda Documents attached herein:

- 1. Mechanical Addendum #M-1 (11 pages)
- 2. Electrical Addendum #E-1 (3 pages)

Clarifications:

 On the Invitation to Proponents 1.8 Timetable: Revise Deemed Complete Date to be October 29, 2021

QUESTIONS & ANSWERS:

Question 1:

Will Roofers gain entry to roof via inside the school or will external staircase be required. If required which trade will be responsible to carry cost? General Contractor, Mechanical Contractor or Roofing Contractor

Answer 1:

Access will be through the school, to be coordinated by the General Contractor.

-END OF ADDENUM #4-



Page 1 of 2

TENDER 7119-KP-21

Project Name:	Elmira District Secondary School – Window, Roof, HVAC and Sanitary Upgrades	Date Issued:	March 25, 2021
Quasar Project #:	ED-20-300		
Client Project #:	20931		
Addendum #: M-1 Revision #: 0			

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

Changes to Drawings:

1. DRAWING M-100 - BOILER ROOM - DEMOLITION AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

- a. Demolition of existing combustion air ductwork;
- b. Relocation of existing water softener tank assembly;
- c. Addition of new floor drain as shown.

2. DRAWING M-101 - HVAC DUCTWORK - CAFETERIA DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

a. Addition of acoustic lining in return ductwork as shown.

3. DRAWING M-102 - HVAC- CAFETERIA ROOF - DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

- a. Revised natural gas pipe sizing as shown;
- b. Addition of acoustic lining in supply ductwork as shown.

4. DRAWING M-103 – HVAC PIPING – CAFETERIA - DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

a. Revised pump room layout as shown.

5. DRAWING M-105 – HVAC PIPING – GYM - DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

a. Addition of heating water piping to differential pressure sensor as shown.

6. DRAWING M-110 - GYM DRAINAGE - DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

a. Storm drainage piping modifications to suit relocation of roof drain.

7. DRAWING M-111 – GYM MECHANICAL ROOM & ROOF –DEMO AND NEW WORK PLAN

Refer to drawing issued herewith and include for all work shown, which includes the following:

- a. Revised location of new rooftop unit HV-27 as shown;
- b. Relocation of existing roof drain as shown;



Page 2 of 2

c. Addition of wall mounted differential pressure sensor as shown.

8. DRAWING M-303 - MECHANICAL DETAILS 3

Refer to drawing issued herewith and include for all work shown, which includes the following:

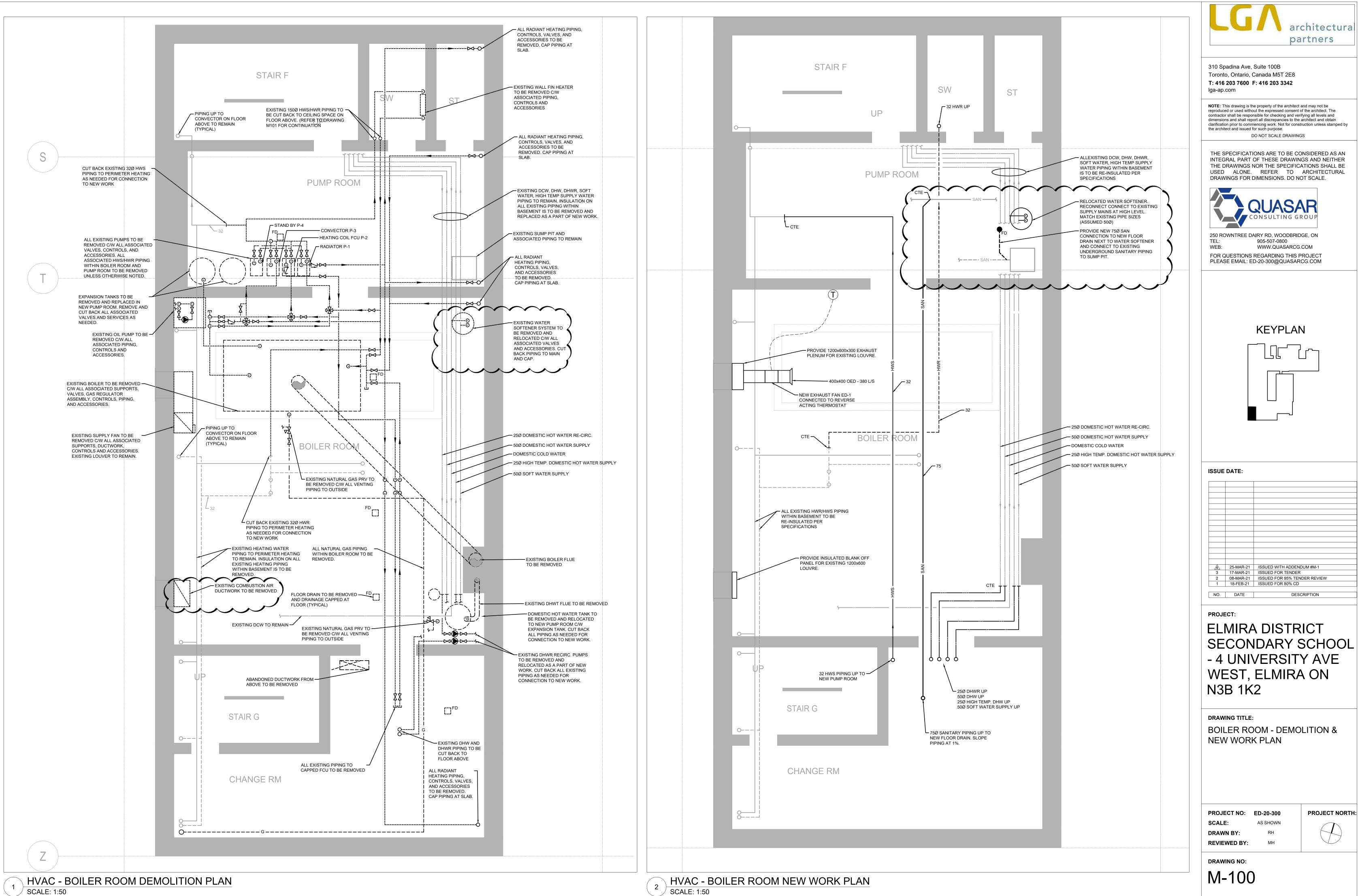
- a. Addition of FIRE RATED LOUVRE/GRILLE INSTALLATION detail;
- b. Addition of VERTICAL INLINE PUMP detail;
- c. Addition of DIFFERENTIAL PRESSURE STATION detail;
- d. Addition of HOT WATER HEATER INSTALLATION detail.

9. DRAWING M-400 - MECHANICAL SCHEDULES

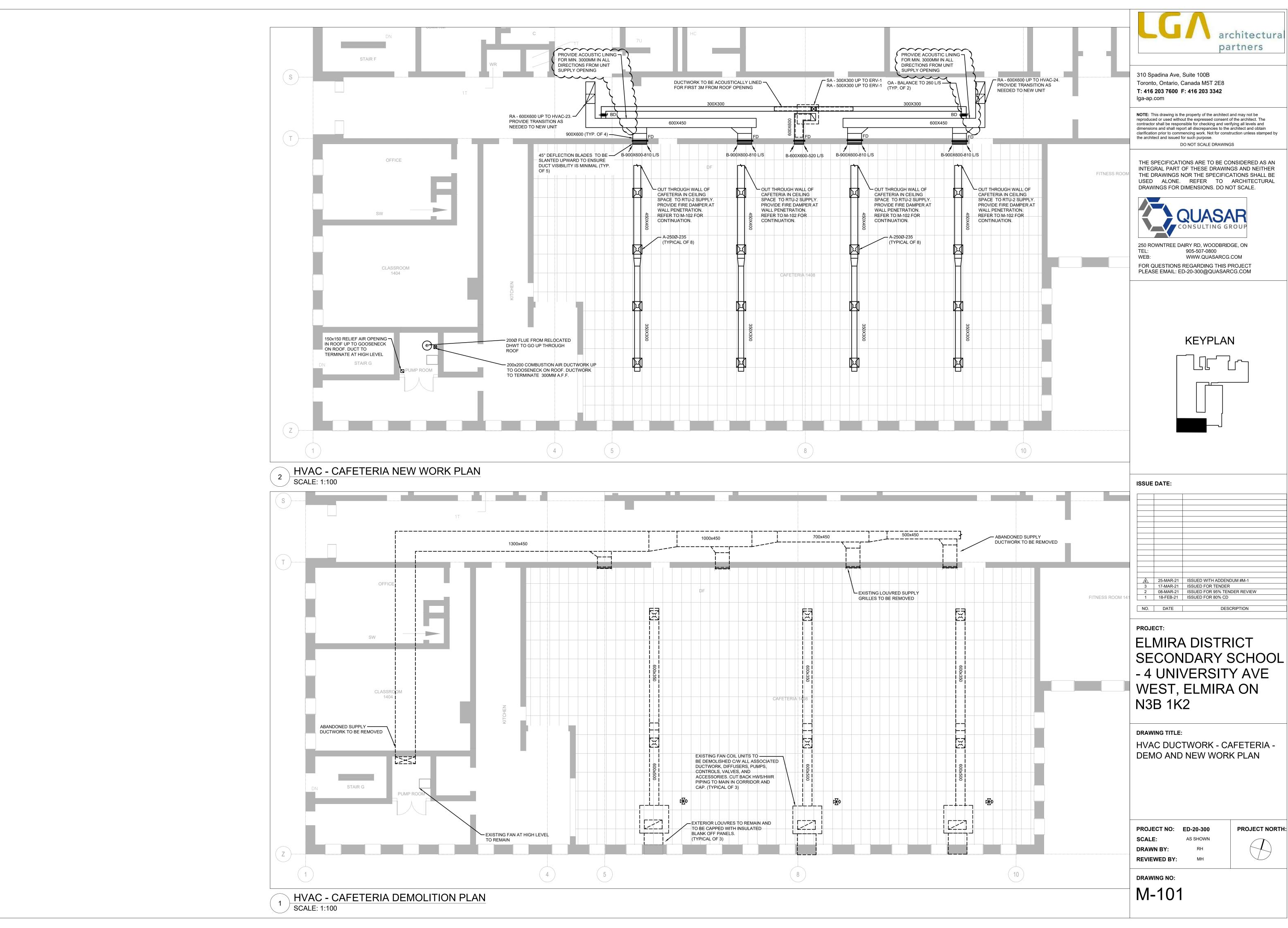
Refer to drawing issued herewith and include for all work shown, which includes the following:

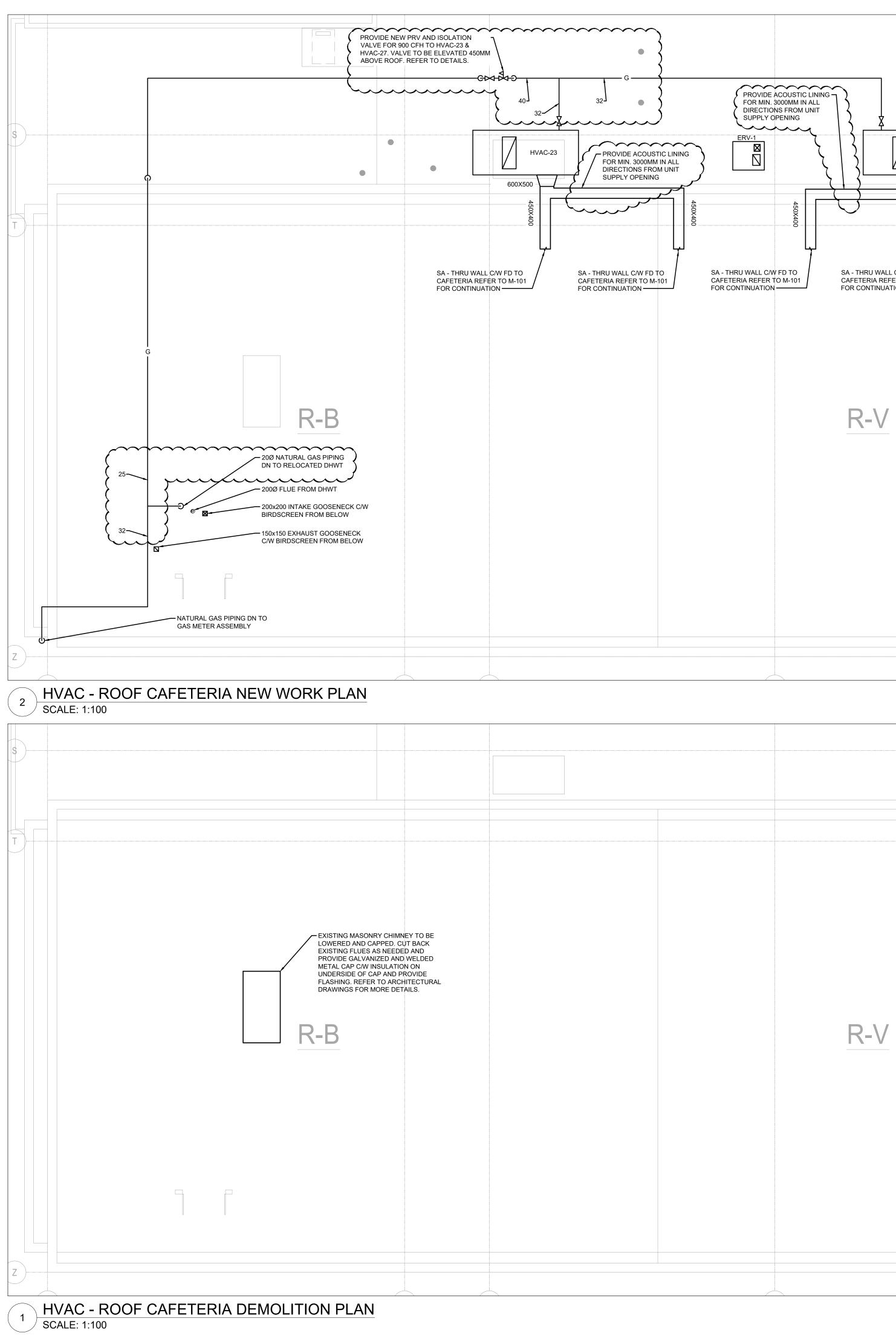
- a. Revised Schedule of Air Handling Units as shown;
- b. Revised schedule of Grilles and Diffusers as shown;
- c. Revised Schedule of Pumps as shown.

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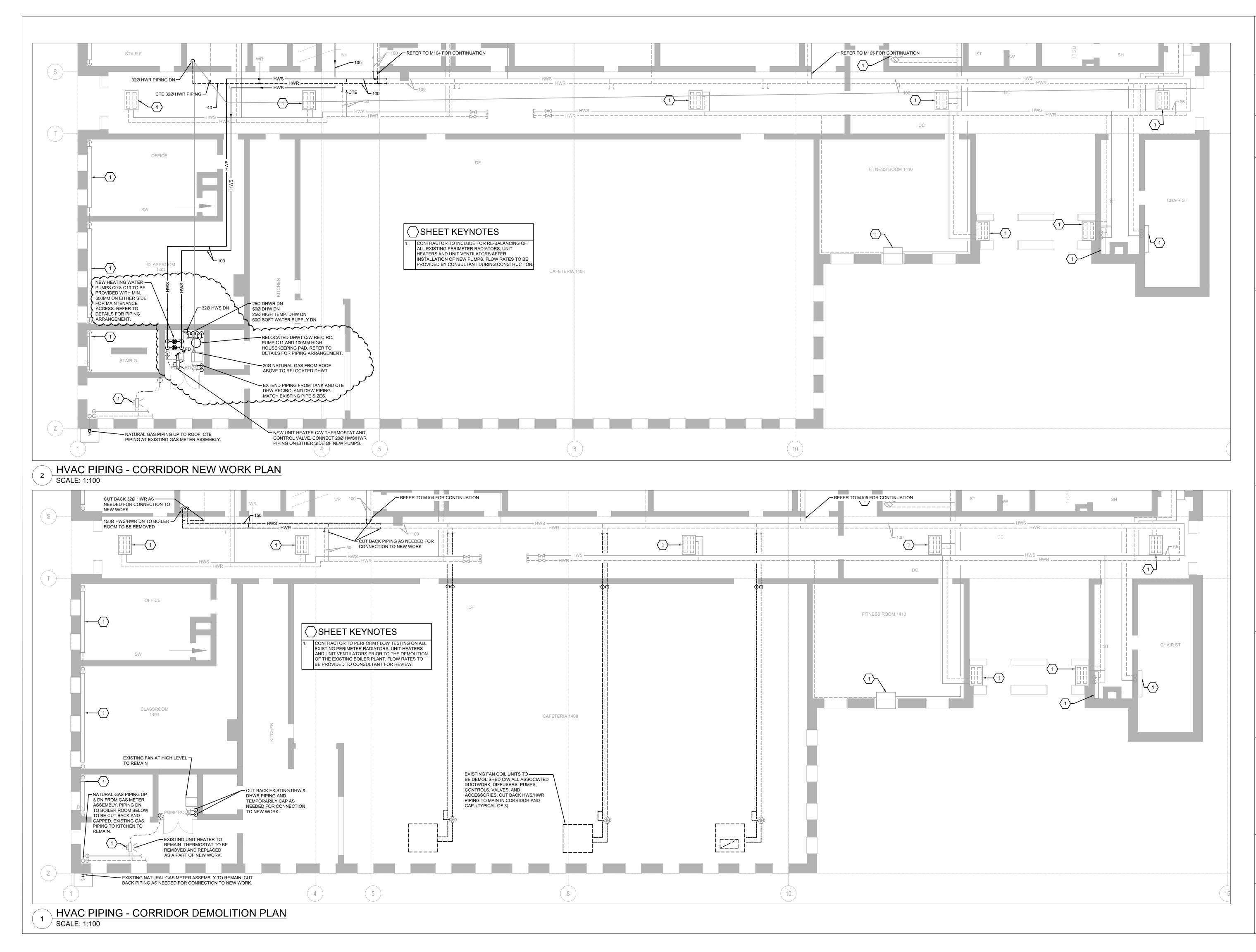


SCALE: 1:50





	LGA architectural partners
	310 Spadina Ave, Suite 100B Toronto, Ontario, Canada M5T 2E8 T: 416 203 7600 F: 416 203 3342 Iga-ap.com
HVAC-24	NOTE: This drawing is the property of the architect and may not be reproduced or used without the expressed consent of the architect. The contractor shall be responsible for checking and verifying all levels and dimensions and shall report all discrepancies to the architect and obtain clarification prior to commencing work. Not for construction unless stamped by the architect and issued for such purpose. DO NOT SCALE DRAWINGS
L C/W FD TO FER TO M-101	THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.
	250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
	TEL: 905-507-0800 WEB: WWW.QUASARCG.COM FOR QUESTIONS REGARDING THIS PROJECT PLEASE EMAIL: ED-20-300@QUASARCG.COM
	ISSUE DATE:
	Image:
	Image:
	317-MAR-21ISSUED FOR TENDER208-MAR-21ISSUED FOR 95% TENDER REVIEW118-FEB-21ISSUED FOR 80% CD
	NO. DATE DESCRIPTION PROJECT: ELMIRA DISTRICT SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON N3B 1K2
	DRAWING TITLE: HVAC - CAFETERIA ROOF - DEMO AND NEW WORK PLAN
	PROJECT NO:ED-20-300PROJECT NORTH:SCALE:AS SHOWNImage: Constraint of the second
	drawing no: M-102

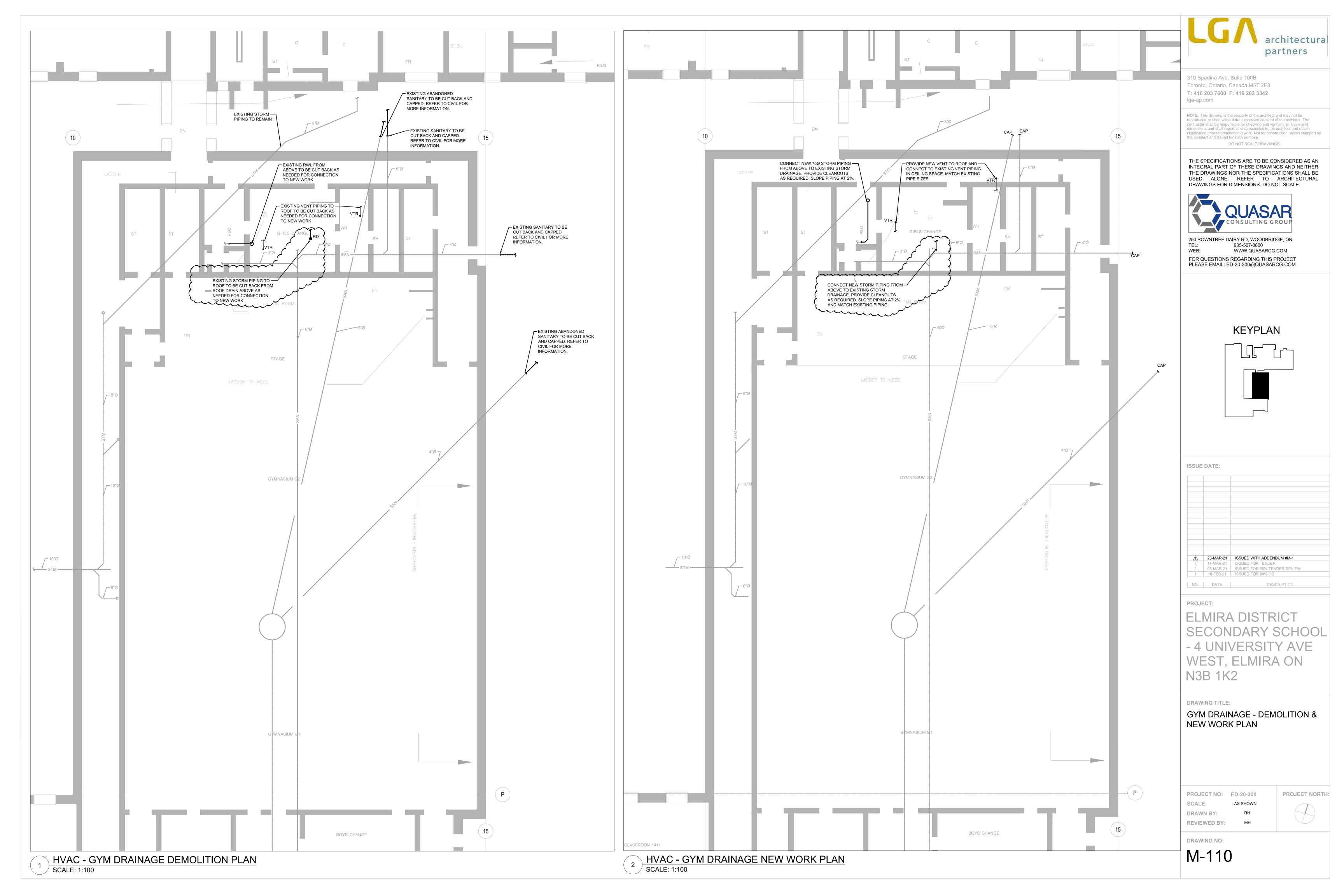


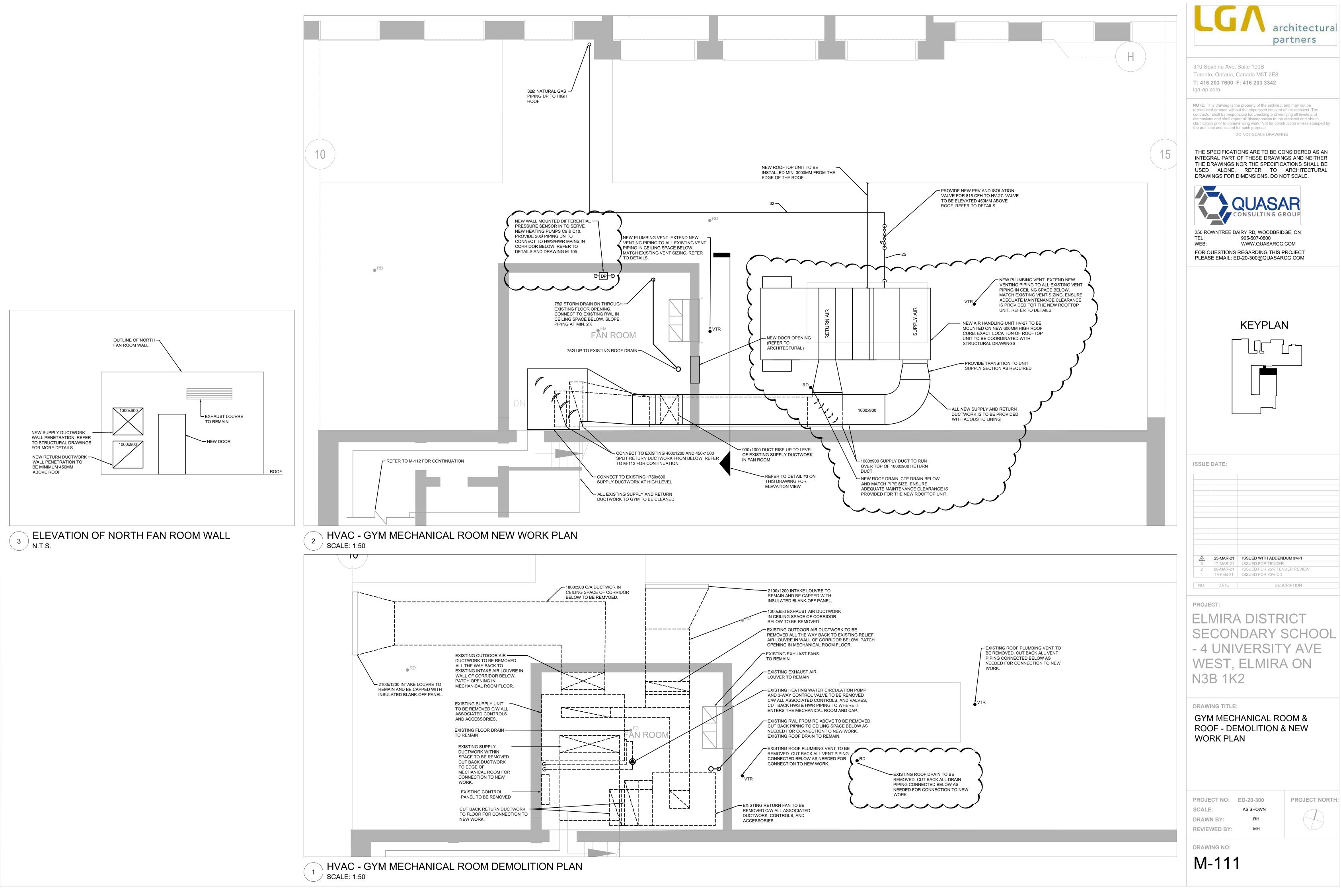
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CONSULTING GROUP
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM FOR QUESTIONS REGARDING THIS PROJECT PLEASE EMAIL: ED-20-300@QUASARCG.COM
ISSUE DATE:
A 25-MAR-21 ISSUED WITH ADDENDUM #M-1 3 17-MAR-21 ISSUED FOR TENDER 2 08-MAR-21 ISSUED FOR 95% TENDER REVIEW 1 18-FEB-21 ISSUED FOR 80% CD
PROJECT: ELMIRA DISTRICT
SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON
N3B 1K2
DRAWING TITLE: HVAC PIPING - CAFETERIA - DEMO AND NEW WORK PLAN
PROJECT NO: ED-20-300 PROJECT NORTH: SCALE: AS SHOWN Image: Comparison of the second se
drawing no: M-103

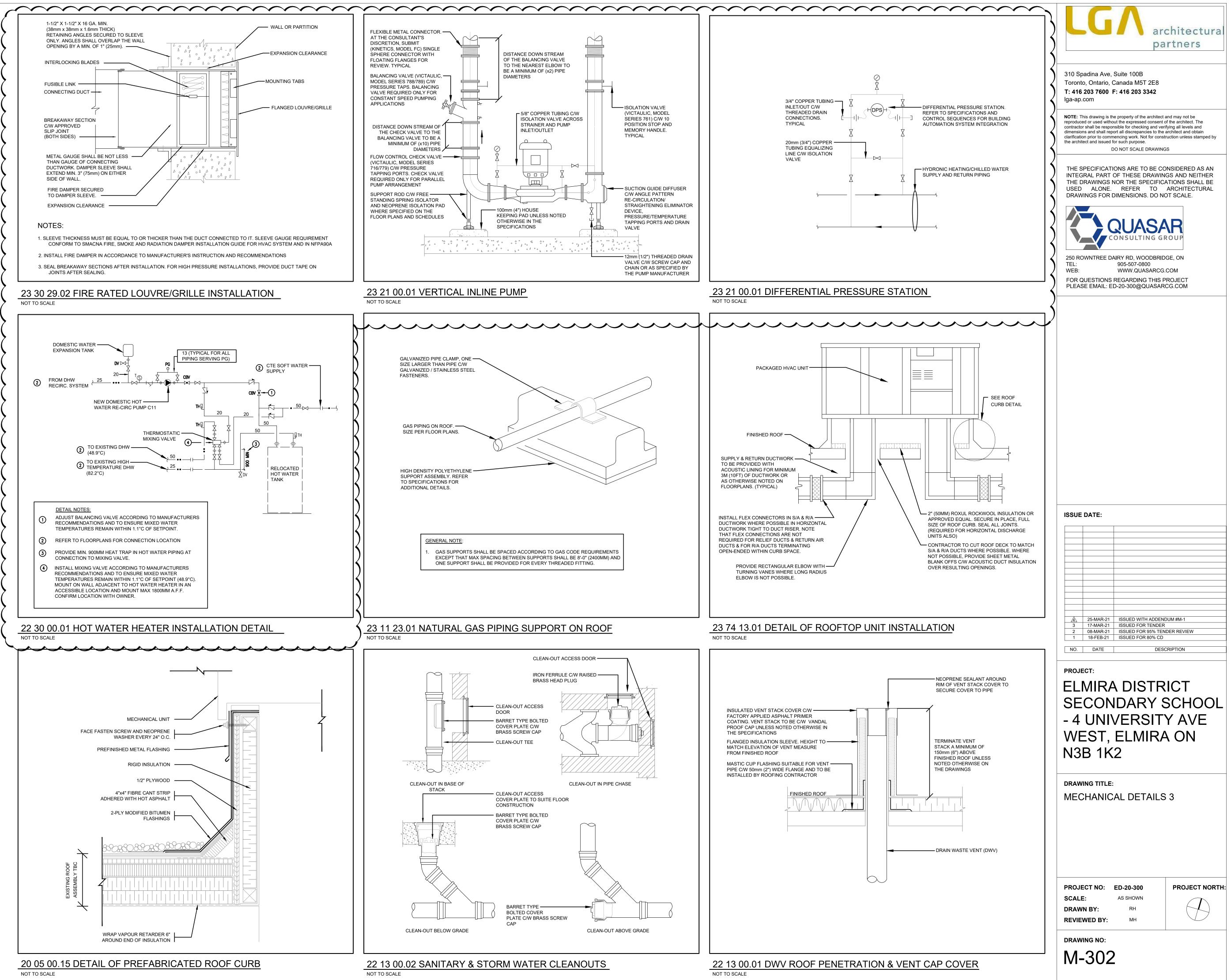


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KEYPLAN
ISSUE DATE:
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ELMIRA DISTRICT
- 4 UNIVERSITY AVE
WEST, ELMIRA ON N3B 1K2
DRAWING TITLE:
HVAC PIPING - GYM - DEMO AND NEW WORK PLAN
PROJECT NO: ED-20-300 PROJECT NORTH SCALE: AS SHOWN DRAWN BY: RH
REVIEWED BY: MH

M-105







								ENI	ERGY	REC	OVE	:RY	VEN		IORS	SCHEL	JULE	•									
					SUPPLY I	FAN	EXHAU	ST FAN				SUMMER							WINTER				ELEC	CTRICAL			
SYSTEM	AREA		MANUFACTURER	MODEL NO.					ENTE	RING AIR 1	TEMP (°C)			GAIR TEMP °C)	TOTAL HEAT	ENTE	ERING AIR T	EMP (°C)			AIR TEMP (°C)	TOTAL			w	EIGHT	REMARKS
STOTEM	SERVED	LOCATION	MANUFACTURER	MODEL NO.	AIRFLOW (L/s)	ESP (PA)	AIRFLOW (L/s)	ESP (PA)	OUTDOOR	AIR	RETU	RN AIR	SUPF	PLY AIR	RECOVERY	OUTDOOF	OUTDOOR AIR	RETURN AIR		SUPPLY AIR		HEAT RECOVERY	MCA (A)	MOCP (A)	V/ф/Hz ^(KG)		
									Db	Wb	Db	RH %	Db	Wb	(KW)	Db	Wb	Db	RH %	Db	Wb	(KW)					
ERV-1	CAFETERIA	ROOF	соок	ERV-1500	1,100	125	1,000	125	31.1	22.7	23.8	50.0	25.6	18.6	9.3	-17.1	-18.3	22.2	35.0	12.9	7.6	21.0	9.73	15	208/1/60	432	SEE NOTES
			1	ļ		I						1 1										<u> </u>					

NOTES:

1. NEW ROOF CURB TO BE MINIMUM 600MM HIGH

2. C/W 2" MERV 8 FILTERS.

3. ROOFTOP UNIT SHALL HAVE SINGLE POINT POWER FEED, AND 120V/10/60Hz FIELD WIRED RECEPTACLE. RECEPTACLE SHALL BE 20A, GFI PROTECTED AND INSTALLED WITHIN WEATHERPROOF ENCLOSURE. 4. EACH UNIT SHALL BE IN CONFORMANCE WITH ASHRAE 90.1 - 2010 EFFICIENCY.

5. EACH FAN TO BE COMPLETE WITH INTERNAL VIBRATION ISOLATION SPRINGS & FLEXIBLE CONNECTION.

6. UNIT DISCONNECT TO BE FIELD SUPPLIED.

7. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

												301			KUUI																		
							COO	LING COIL		HE	AT EXCHA	NGER			S	SUPPLY FA	۸N							RETUR	N FAN				FILTERS		ELECTRIC	CAL	
SYSTEM	AREA	MODEL NO.		AIRFLOW	% FRESH	4	CAPACI	ſY	0.01	CAPA	CITY	INLET			TOD	FOD		MOTOD					TOD	505		мотор							REMARKS
STOTEM	SERVICED	(DAIKIN)	(KG)	(L/s)	AIR	NOMINAL (TONS)	GROSS (KW)	SENSIBLE (KW)	TYPE		OUPUT (KW)	PRESSURE (INWC)	FAN TYPE	SUPPLY AIR (L/S)	TSP (Pa)	ESP (Pa)	R.P.M.	MOTOR (KW)	VFD	DISCHARGE ORIENTATION	FAN TYPE	RETURN AIR (L/s)	TSP (Pa)	ESP (Pa)	R.P.M.	MOTOR (KW)		DISCHARGE ORIENTATION		MCA	MOCP	ELECTRICAL V/ф/Hz	
HV-27	GYM	RDS802C	1,323	6,040	25		UNIT IS H	EATING ONLY		238.1	190.5	7"-14"	FIXED DRIVE	6,038	948.7	498.0	1,479	11.2	YES	SIDE	FIXED DRIVE	6,040	374	374	1132	7.46	YES	воттом	MERV 8	84.2	110.0	208/3/60	1,3,4,5,6,7,9
HVAC-23 & HVAC-24	CAFETERIA	DPS016A	1,583	1,888	50	15.6	54.8	35.7	DX	131.9	105.5	7"-14"	DIRECT DRIVE	1,887	672.3	423.3	1,724	5.6	YES	SIDE	DIRECT DRIVE	1,888	125	125	2033	2.98	YES	SIDE	MERV 8	100.2	125.0	208/3/60	1,2,3,4,5,6,8,9
	NOTES:	JNITS TO BE PF HVAC-24 DX CC SHALL BE IN C CURBS TO BE JNIT SHALL HA'	Rovided V Ooling CC Onforma Minimum Ve Single	WITH STAIN DIL PERFOR NCE WITH 600MM HIG E POINT PC	ILESS STEE RMANCE IS I ASHRAE 9 GH. DWER FEEL	EL GAS FIRI BASED ON 90.1 - 2010 E D.	ED HEAT EX R-410A REI FFICIENCY.	CHANGER. FRIGERANT.			7. HV-27 8. HVAC-2 9. HV-27,	C/W SIDE-DIS 23 & HVAC-24 HVAC-23 & H	CHARGE KITS AN C/W BOTTOM DI VAC-24 C/W ECO TENSION KITS TO	ND FIELD MODIF SCHARGE KITS NOMIZER.	FIED TO SU AND FIELD	IT SIDE DIS	CHARGE				Z Z												

SCHEDULE OF ROOFTOP AIR HANDLING UNITS

		S	CHEDUL	E OF GR	ILLES AND DIFFUSERS		
	TAG	SERVICE	MANUFACTURER	MODEL NO.	SIZE (MM×MM)	FINISH	REMARKS
	A	CEILING SUPPLY DIFFUSER	E.H. PRICE	ASCD	600x600, REFER TO FLOORPLAN FOR NECK CONNECTION	BY ARCH	ADJUSTABLE DIFFUSER
$\left(\right)$	В	LOUVRED FACE RETURN	E.H. PRICE	530	PER FLOOR PLAN	BY ARCH	SEE NOTE 1
2		1. RETURN/EXHAUST GRILES TO HAVE AI	NGLED BLADES ORIEI	NTED UPWARDS TO	PREVENT VISIBILITY OF DUCTWORK.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

	SCHEDULE OF MISCELLANEOUS FANS										
TAG	AREA SERVED	MODEL NO.	MANUFACTURER	F CAPACITY (L/s)					REMARKS		
EF-1	BOILER ROOM EXHAUST	SQI-D-90SQ15D	COOK	375	75	1550	0.23	120/1/60	1,2,3		

NOTES:

1. BACKDRAFT DAMPER 2. REVERSE ACTING THERMOSTAT

3. PROVDIE WITH ISOLATION HANGERS

TAG	SYSTEM	LOCATION	MAKE	MODEL NO.	CAPACITY (L/s)	HEAD (KPa)	IRPMI	MOTOR BKW	MOTOR (KW)	ELECTRICAL V/ф/Hz	REMARKS
C9 & C10	HEATING WATER PUMPS	PUMP ROOM	ARMSTRONG	4300 1505-005.0	10.4	215	2331	3.3	3.73	208/3/60	2,3,4
C11	DOMESTIC RECIRC PUMP	PUMP ROOM	GRUNDFOS	UPS 32-80 F	0.41	62	1800	0.28	0.158	115/1/60	1
	 INLINE PUMP TO BE MOUNTED ON PI C/W SUCTION GUIDE AND LONG RAD PUMPS TO OPERATE AS DUTY STAN C/W VFD. 	IUS ELBOW.									



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TEL:	905-507-0800
WEB:	WWW.QUASARCG.COM
FOR QUESTIO	NS REGARDING THIS PROJECT

PLEASE EMAIL: ED-20-300@QUASARCG.COM

ISSUE	DATE:	
	25-MAR-21	ISSUED WITH ADDENDUM #M-1
3	17-MAR-21	ISSUED FOR TENDER
2	08-MAR-21	ISSUED FOR TENDER ISSUED FOR 95% TENDER REVIEW
1	18-FEB-21	ISSUED FOR 80% CD
	10-1 ED-21	
NO.	DATE	DESCRIPTION
	2.112	

PROJECT:

ELMIRA DISTRICT SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON N3B 1K2

DRAWING TITLE:

MECHANICAL SCHEDULES

PROJECT NO: ED-20-300 SCALE: DRAWN BY: **REVIEWED BY:**

AS SHOWN RH MH

PROJECT NORTH:

 $\left(\int \right)$

DRAWING NO: M-400



Page 1 of 1

TENDER 7119-KP-21

Project Name:	Elmira District Secondary School – Window, Roof, HVAC and Sanitary Upgrades	Date Issued:	March 25, 2021
Quasar Project #:	ED-20-300		
Client Project #:	20931		
Addendum #: E-1 Revision #: 0			

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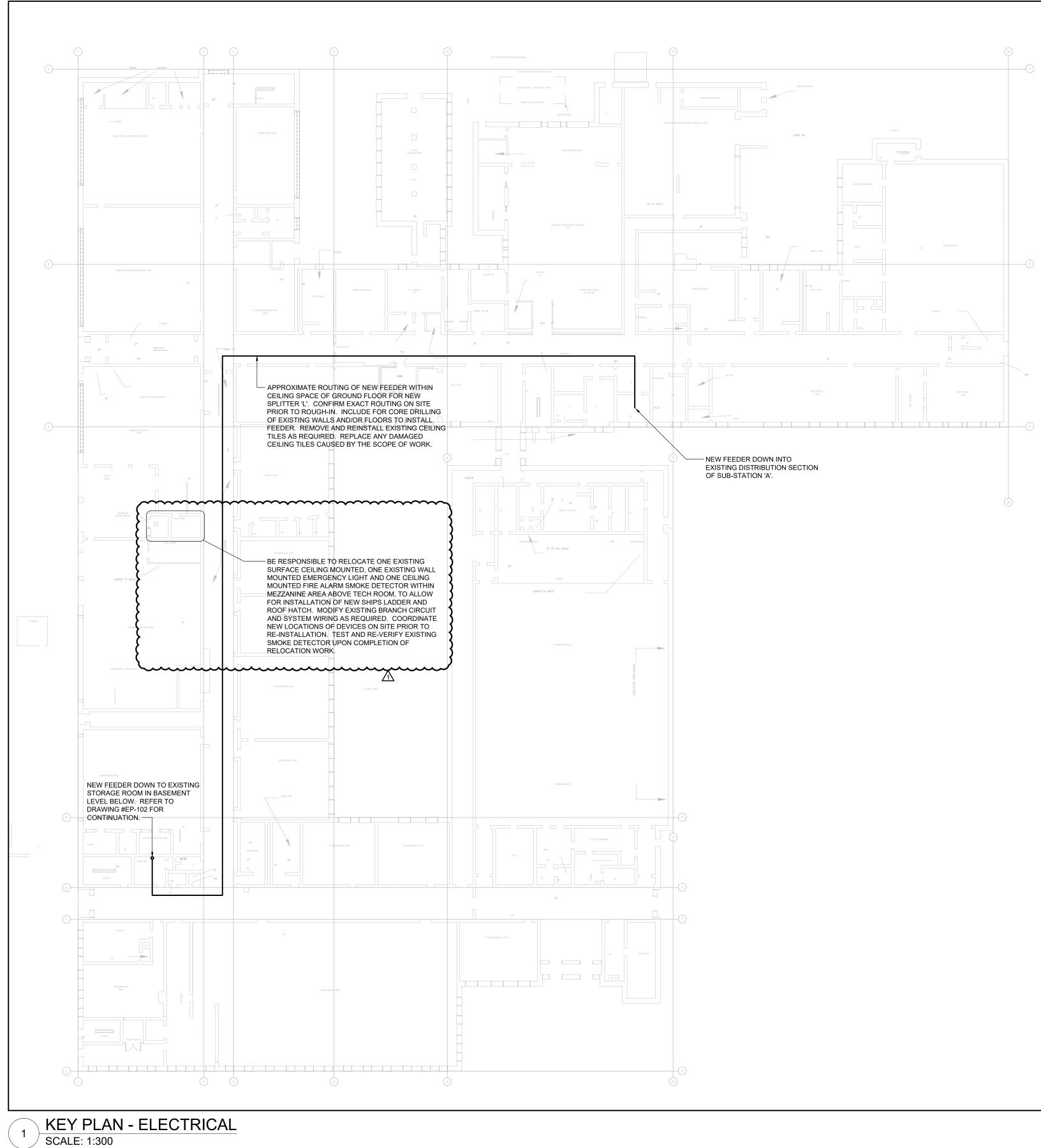
1. DRAWING EA-001 – ELECTRICAL LEGEND AND DRAWING LIST (ISSUED HEREWITH)

a. Refer to key plan on this drawing and provide work associated with relocation of existing ceiling mounted light fixture and smoke detector and wall mounted emergency light to accommodate new roof hatch and vertical ships ladder.

2. DRAWING EL-101 - CAFETERIA LIGHTING PLANS (ISSUED HEREWITH)

a. Refer to attached, revised drawing EL-101 and note addition of drawing general and key notes for both demolition and new work plans.

Quasar Consulting Group



ELECTRICAL LEGEND					
SYMBOL					
	LINETYPES NEW WORK				
	WORK TO BE DEMOLISHED, OR REMOVED				
	EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN				
E	ABBREVIATIONS EXISTING TO REMAIN				
D	EXISTING TO BE DEMOLISHED/REMOVED				
R	EXISTING TO BE RELOCATED/IN RELOCATED POSITION				
ER	EXISTING TO BE REMAIN AND REPLACED WITH NEW				
RR	REMOVE AND REINSTALL IN SAME POSITION				
RL C	REMOVE AND RELOCATE CEILING MOUNTED CONNECTION				
W	WALL MOUNTED CONNECTION				
F د	FLOOR MOUNTED CONNECTION CENTRE LINE				
AFF	ABOVE FINISHED FLOOR				
AFG O/C	ABOVE FINISHED GRADE OVER COUNTER				
U/C	UNDER CABINET				
U/F	UNDER RAISED FLOOR				
CCT	CIRCUIT CONNECT TO EXISTING				
AFCI	ARC FAULT CIRCUIT INTERRUPTER				
GFCI					
GFI	GROUND FAULT INTERRUPTER ISOLATED GROUND				
TL	TWIST LOCK				
TR WG	TAMPER RESISTANT WIRE GUARD				
WB	WEATHER PROOF				
R/I					
NIC SIM.	NOT IN CONTRACT SIMILAR TO				
TYP.	TYPICAL				
OBC	ABBREVIATIONS - CODES AND STANDARDS				
OESC	ONTARIO BUILDING CODE ONTARIO ELECTRICAL SAFETY CODE				
	ANNOTATIONS				
CL	ROOM NUMBER CLOSET				
WR	WASHROOM				
	FIRE PROTECTION FIRE EXTINGUISHER				
SPK	SPRINKLER HEAD				
FHC	STANDPIPE FIRE HOSE CABINET				
Ţ	HVAC THERMOSTAT OR TEMPERATURE SENSOR				
BBH	ELECTRIC BASEBOARD HEATER (BBH)				
FFH	FORCED FLOW HEATER ENERGY RECOVERY VENTILATOR				
HRU	HEAT RECOVERY UNIT				
MUA					
	CONDUIT AND BOXES CONDUIT WITH END BUSHING				
0	CONDUIT UP				
 JB	CONDUIT DOWN JUNCTION BOX				
PB	PULL BOX				
PB	CONNECTIONS TO EQUIPMENT				
DW	DISHWASHER				
FR	FRIDGE				
MW HD	MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A				
PSC	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)				
PTP	PLUMBING TRAP PRIMER				
\bigcirc	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.				
۲	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.				
	ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL				
W	SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.				
Q	SINGLE PHASE MOTOR, HP (KW) AS NOTED.				
\bigcirc	THREE PHASE MOTOR, HP (KW) AS NOTED.				
\bigcirc	LIGHTING CONTROLS				
	FICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS				
EFER TO SPECI					
EFER TO SPECI	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.				
\$	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.				
	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.				
⊈ DIM K	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING SWITCH. ADJACENT TO SWITCH, DENOTES KEY SWITCH. ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL				
 DIM	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING SWITCH. ADJACENT TO SWITCH, DENOTES KEY SWITCH.				
⊈ DIM K M	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING SWITCH. ADJACENT TO SWITCH, DENOTES KEY SWITCH. ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED. WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES				
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\$ DIM K M ∑PIR	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING SWITCH. ADJACENT TO SWITCH, DENOTES KEY SWITCH. ADJACENT TO SWITCH, DENOTES KEY SWITCH. ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED. WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED', DT DENOTES 'DUAL PASSIVE INFRARED', DT DENOTES 'D'AS DUAL PASSIVE INFRARED', D'AS DUAL P				
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SYMBOL	DESCRIPTION			
÷	120V U-GROUND DUPLEX RECEPTACLE.			
	120V U-GROUND DUPLEX RECEPTACLE -			
<u></u>	90.1-2010, 8.4.2).			
+	120V U-GROUND QUAD RECEPTACLE. SPECIAL RECEPTACLE. VERIFY OUTLET F			
\ominus	ROUGH-IN.			
+	120V U-GROUND DUPLEX RECEPTACLE M COUNTER TOP OR AS INSTRUCTED ON S			
	LIGHTING FIXTURES			
	RDANCE WITH IES DG-3-00 WHERE NOT DET IG FIXTURE SCHEDULE FOR FURTHER DETA			
	SURFACE MOUNTED LINEAR LUMINAIRE			
	RECESSED MOUNTED LUMINAIRE			
\diamond	RECESSED DOWNLIGHT			
Z1, Z2, ETC.	DENOTES ZONING/CIRCUTING ASSIGNME AND CONTROLS IN THE SAME SPACE.			
	EMERGENCY LIGHTING			
REFER TO EM	IERGENCY LIGHTING FIXTURE SCHEDULE F REQUIREMENTS.			
	CEILING OR WALL MOUNTED ILLUMINATE			
	AREA INDICATES ILLUMINATED FACE. PR ARROWS AS INDICATED ON PLANS.			
	EMERGENCY LIGHTING BATTERY UNIT.			
• ••	ONE AND TWO HEAD WALL MOUNTED EN REMOTE UNITS.			
EM	DENOTES 'EMERGENCY"			
	COMMUNICATIONS			
◄	WALL MOUNTED DATA (D) OR VOICE (V) O UNLESS NOTED OTHERWISE.			
4	WALL MOUNTED VOICE (TELEPHONE) OUT			
	NOTED OTHERWISE.			
\triangleleft	WALL MOUNTED DATA OUTLET. PROVIDE OTHERWISE.			
WAP	WIRELESS ACCESS POINT (WIFI)			
(PA)	PUBLIC ADDRESS SPEAKER, CEILING AND RESPECTIVELY.			
	ACCESS CONTROL			
CR	CARD READER			
DC	DOOR CONTACT			
ES	ELECTRIC STRIKE			
	MUSHROOM HEAD PUSH BUTTON FOR M. OTHER PUSH BUTTON AS INDICATED			
۲	BARRIER FREE DOOR OPERATOR PUSH			
•	INTRUSION DETECTION			
	GLASS BREAK (GB)			
MD	MOTION DETECTOR (MD)			
-				
	KEYPAD (KP) SOUNDER			
	FIRE DETECTION AND ALARM			
FACP	FIRE ALARM CONTROL PANEL			
FAAP	FIRE ALARM ANNUNICIATOR PANEL			
FAPG	FIRE ALARM PASSIVE GRAPHIC			
FAZ	FIRE ALARM ZONE			
FSZ	FIRE ALARM SUPERVISORY ZONE END OF LINE DEVICE			
WG	WIRE GUARD			
	MANUAL PULL STATION (MPS)			
CG	WHERE NOTED ADJACENT TO MANUAL P			
	PULL STATION C/W LEXAN COVER.			
	FIRE ALARM HORN FIRE ALARM HORN/STROBE, WALL MOUN			
	FIRE ALARM WALL MOUNTED STROBE LIC			
	ADJACENT TO SMOKE DETECTOR, INDIC			
A	RELAY			
SA	WHEN ADJACENT TO PHOTOELECTRIC SI INDICATES RESIDENTIAL SMOKE ALARM			
	DUCT MOUNTED SMOKE DETECTOR			
EOL	END OF LINE (EOL) DEVICE ON ZONE INIT			
IM Ø	ISOLATOR MODULE HEAT DETECTOR - FIXED TEMPERATURE			
HO	MAGNETIC DOOR HOLDER AND RELEASI			
FS	FLOW SWITCH			
PS	PRESSURE SWITCH			
SV	SUPERVISED VALVE			
	SINGLE LINE DIAGRAM			
<u>。</u>	CIRCUIT BREAKER			
~~	DISCONNECT (UNFUSED)			
	FUSE			
\bigcirc	METER			
3115	TRANSFORMER			
311E	CONTACTOR			
DP	DISTRIBUTION PANELBOARD			
PP	POWER PANELBOARD			
SPD	SURGE PROTECTIVE DEVICE			
SWBD	SWITCHBOARD			
TX	TRANSFORMER			
	DETAIL REFERENCES			
$\langle 1 \rangle$	SHEET KEYNOTE			
\bigwedge	REVISION NUMBER			
<u> </u>				
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT B PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DE				

ELECTRICAL LEGEND

DESCRIPTION RECEPTACLE. RECEPTACLE - CONTROLLED (ASHRAE ECEPTACLE. ERIFY OUTLET REQUIREMENTS PRIOR TO RECEPTACLE MOUNTED ABOVE RUCTED ON SITE. IXTURES WHERE NOT DETAILED OTHERWISE HERE. FURTHER DETAILS AND EXACT FIXTURE NTS. AR LUMINAIRE

IINAIRE

TING ASSIGNMENTS FOR LUMINAIRES

GHTING

E SCHEDULE FOR EXACT FIXTURE ENTS. ED ILLUMINATED EXIT SIGN. SHADED

NATED FACE. PROVIDE DIRECTIONAL N PLANS.

ATTERY UNIT. LL MOUNTED EMERGENCY LIGHTING

IONS OR VOICE (V) OUTLET. PROVIDE 1V AND 1D

ELEPHONE) OUTLET. PROVIDE 1V UNLESS

ITLET. PROVIDE 1D UNLESS NOTED

R, CEILING AND WALL MOUNTED,

ROL

BUTTON FOR MAGLOCK RELEASE, OR S INDICATED

ERATOR PUSH BUTTON ECTION

R PANEL PHIC

ZONE

TO MANUAL PULL STATIONS, DENOTES COVER.

E, WALL MOUNTED.

TED STROBE LIGHT DETECTOR

TECTOR, INDICATES C/W AUXILIARY

DTOELECTRIC SMOKE DETECTOR, SMOKE ALARM

ETECTOR E ON ZONE INITIATION OR SIGNAL

EMPERATURE

R AND RELEASING DEVICE ("HOLD OPEN")

AGRAM NCES

TED MAY NOT BE APPLICABLE FOR THIS MINE USED DEVICES AND EQUIPMENT.

Sheet List Table				
Sheet Number	Sheet Title			
EA-001	ELECTRICAL LEGEND AND DRAWING LIST			
EL-101	CAFETERIA LIGHTING PLANS			
EP-101	CAFETERIA POWER & SYSTEMS PLANS			
EP-102	BOILER & PUMP ROOM PLANS - ELECTRICAL			
EP-103	GYM MECHANICAL ROOM PLANS - ELECTRICAL			
EP-104	ROOF PLANS - ELECTRICAL			
EX-101	ELECTRICAL SCHEDULES AND SINGLE LINE DIAGRAM			
EX-102	ELECTRICAL DETAILS			



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THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.



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FOR QUESTIONS REGARDING THIS PROJECT PLEASE EMAIL: ED-20-300@QUASARCG.COM

ISSUE DATE:

<u>/1</u>	25-MAR-21	ISSUED WITH ADDENDUM E-1		
3	17-MAR-21	ISSUED FOR TENDER		
2	08-MAR-21	ISSUED FOR 95% TENDER REVIEW		
1	18-FEB-21	ISSUED FOR 80% CD		
NO.	DATE	DESCRIPTION		

PROJECT:

ELMIRA DISTRICT SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON N3B 1K2

DRAWING TITLE:

ELECTRICAL LEGEND AND DRAWING LIST

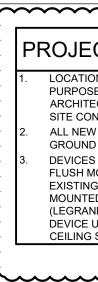
PROJECT NO: ED-20-300 SCALE: DRAWN BY: CW **REVIEWED BY:** BD/TWS

NOT TO SCALE

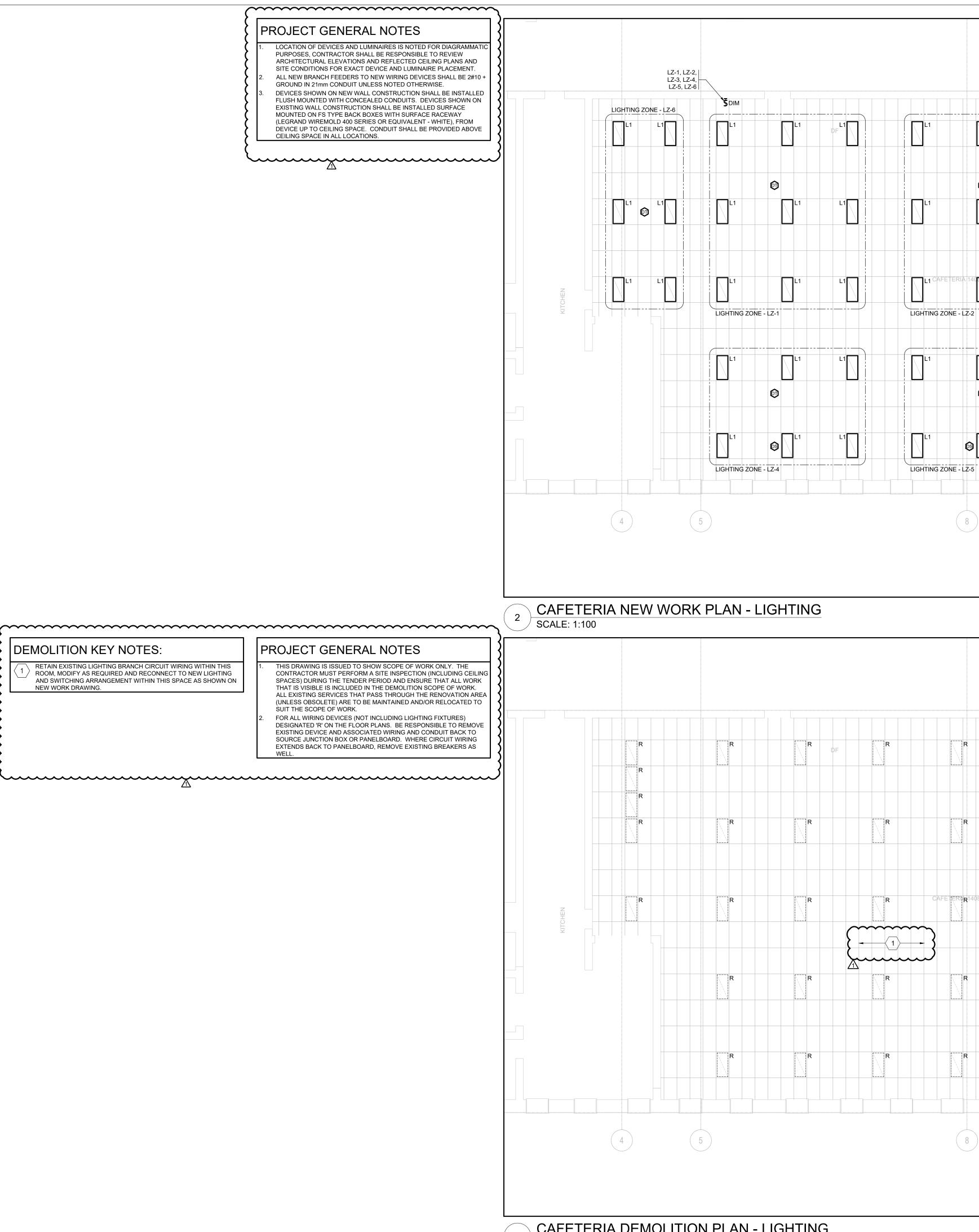
PROJECT NORTH:







DEMOLITION KEY NOTES: RETAIN EXISTING LIGHTING BRANCH CIRCUIT WIRING WITHIN THIS ROOM. MODIFY AS REQUIRED AND RECONNECT TO NEW LIGHTING AND SWITCHING ARRANGEMENT WITHIN THIS SPACE AS SHOWN ON NEW WORK DRAWING. WELL.



CAFETERIA DEMOLITION PLAN - LIGHTING SCALE: 1:100

		<image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>
		ISSUE DATE:
	10	PROJECT NO: ED-20-300 SCALE: AS SHOWN DRAWN BY: CW REVIEWED BY: BD/TWS DRAWING NO: EL-101