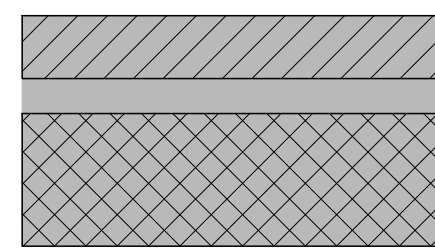




## ASSEMBLIES SCHEDULE

## W - EXTERIOR WALL ASSEMBLIES

TYPE	DIAGRAM	DESCRIPTION	ASSEMBLY-SPECIFIC NOTES	PERFORMANCE		
W1	<div>EXTERIOR</div>  <div>INTERIOR</div>	<div>EXISTING BRICK MASONRY VENEER CLADDING W/ 190mm LOADBEARING CMU BACKUP</div> <div>90mm EX BRICK MASONRY VENEER 50mm MASONRY CAVITY 190mm LOADBEARING CMU BLOCK</div> <div>VAR INTERIOR FINISH, REFER TO FINISH PLANS</div>	<div>NOTE: CONTRACTOR IS TO VERIFY DIMENSIONS AND CONDITION OF CAVITY ON SITE AND NOTIFY CONSULTANTS OF VARIATIONS PRIOR TO WINDOW INSTALLATION</div> <div>NOTE: REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR OPENING LINTEL SUPPORT DETAILS.</div>	CATEGORY	REQUIRED	PROVIDED
		R-VALUE	N/A	N/A		
		RSI-VALUE	N/A	N/A		

### FINISH SCHEDULE

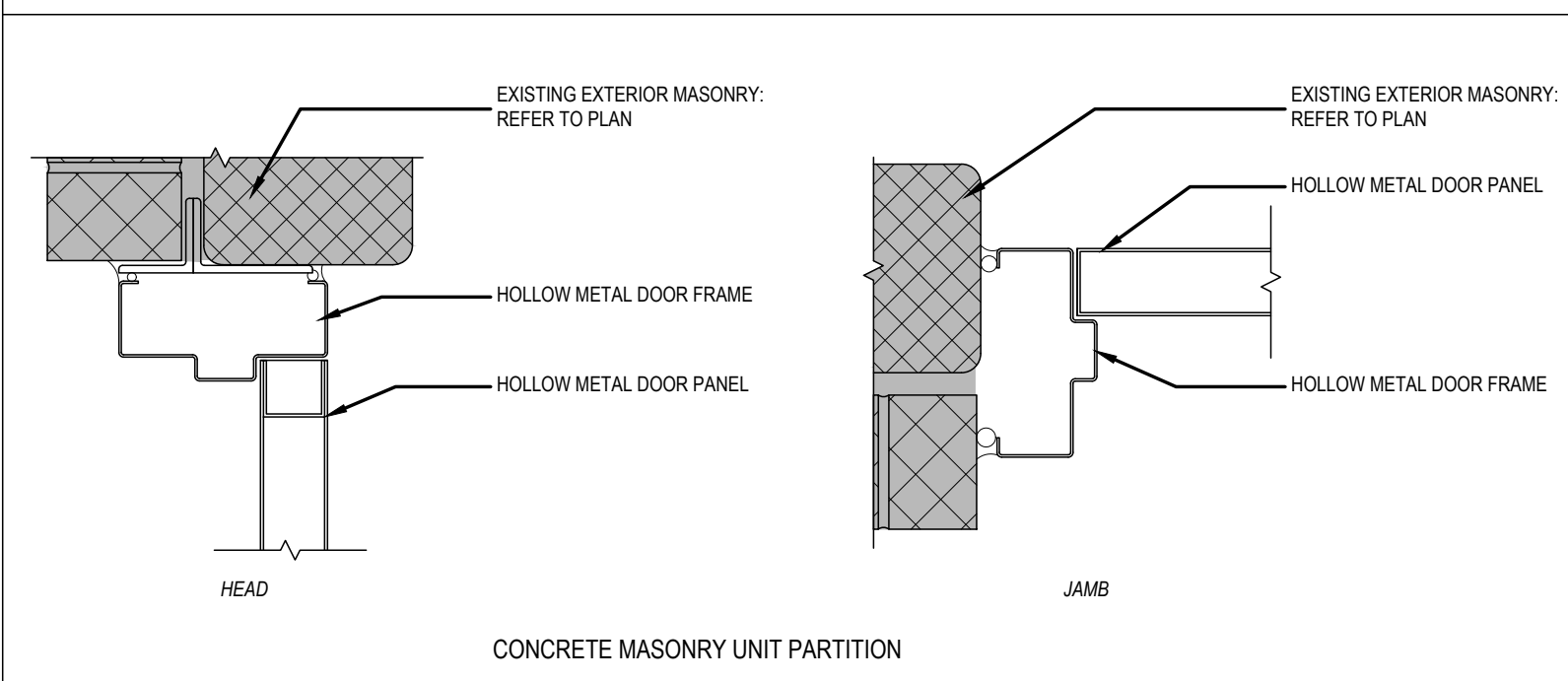
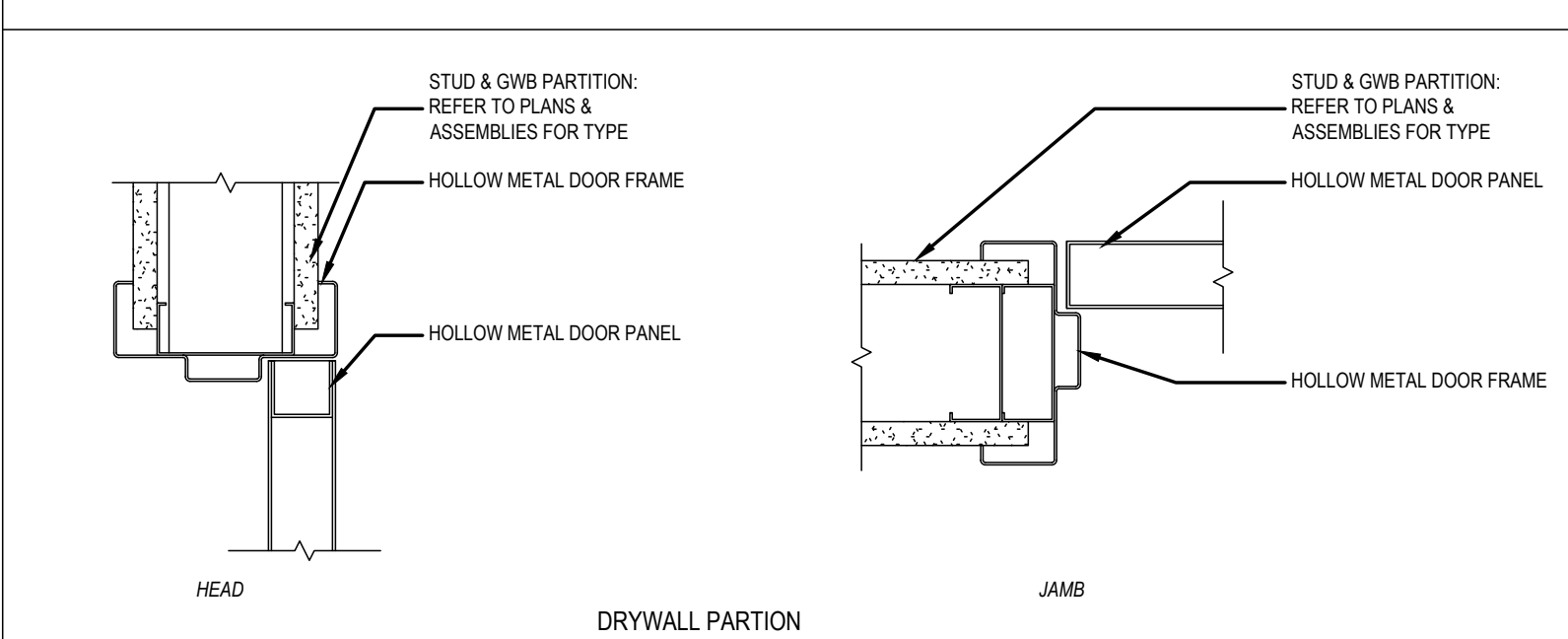
ABBREV.	DESCRIPTION	MANUFACTURER	PRODUCT	TYPICAL LOCATION(S)	NOTES
WALL FINISHES					
PT-1	PAINT			WALLS	
PT-2	PAINT - ACCENT COLOUR 01			CEILINGS	
PT-3	PAINT - ACCENT COLOUR 02			EXTERIOR DOOR	
MILLWORK FINISHES					
PL-1	PLASTIC LAMINATE SILL				
SS-1	SOLID WOOD SILL				
WD-1	SOLID SURFACE SILL				

## DOOR SCHEDULE

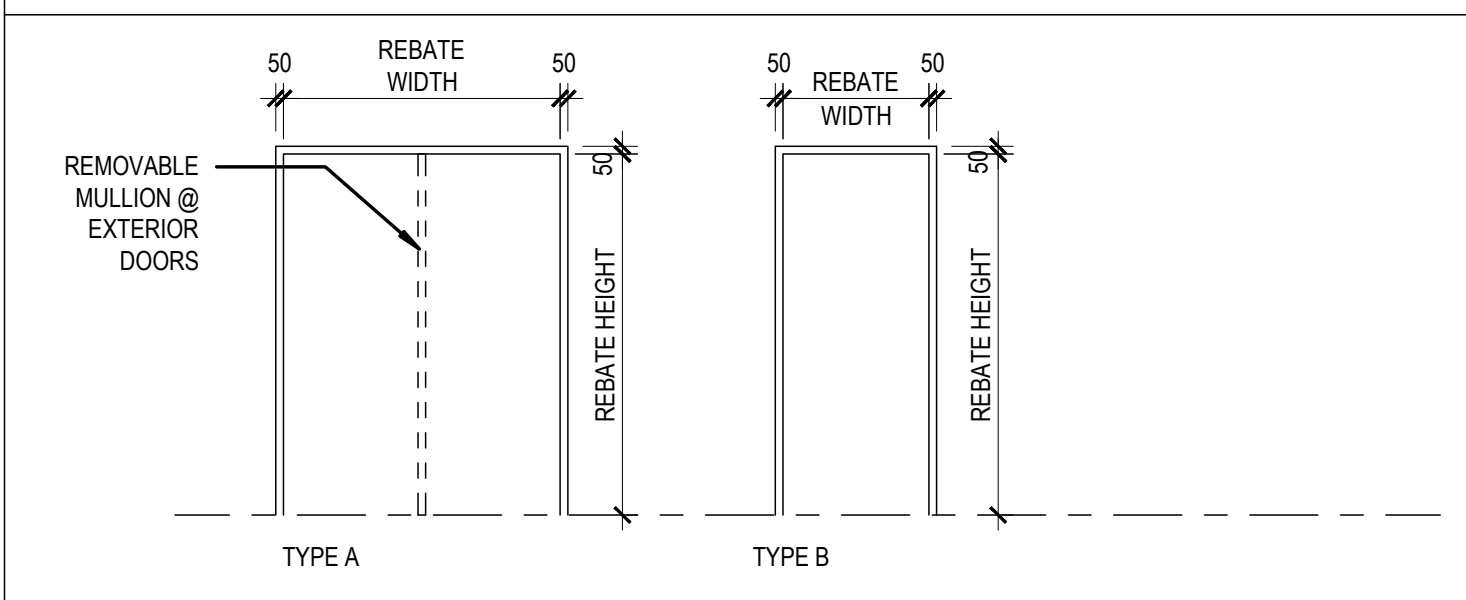
DOOR NO.	FROM ROOM:		TO ROOM:		DOOR SIZE			PANEL CONSTRUCTION			FRAME CONSTRUCTION			LITE TYPE	FIRE RATING	HARDWARE
	ROOM NAME	ROOM #	ROOM NAME	ROOM #	REBATE WIDTH	REBATE HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			
D01	SOUTHWEST EXIT AT STAIR D	EXIT 3	EXTERIOR		1850	2135	51	D1	ALUM/GLASS	CLEAR ANOD.	A	ALUMINUM	CLEAR ANOD.	TG	45 MINUTES	ENTRANCE DP, ED, WS
D02	NEW PUMP/UTILITY ROOM	D1406c	STAIR G		1830	2134	44	A1	HM	PAINT	B	HM	PAINT			STORER LS, CL, SMOKESEAL
D03	FAN ROOM DOOR	XXXc	EXTERIOR (ROOF)		1090	2134	44	D1	HM	PAINT	B	HM	PAINT			STORER LS, WS, TH
D04	SOUTH EXIT AT STAIR C	EXIT 4	EXTERIOR		1850	2135	51	D1	ALUM/GLASS	CLEAR ANOD.	A	ALUMINUM	CLEAR ANOD.	TG		ENTRANCE DP, ED, WS

## TYPICAL DOOR FRAME DETAILS

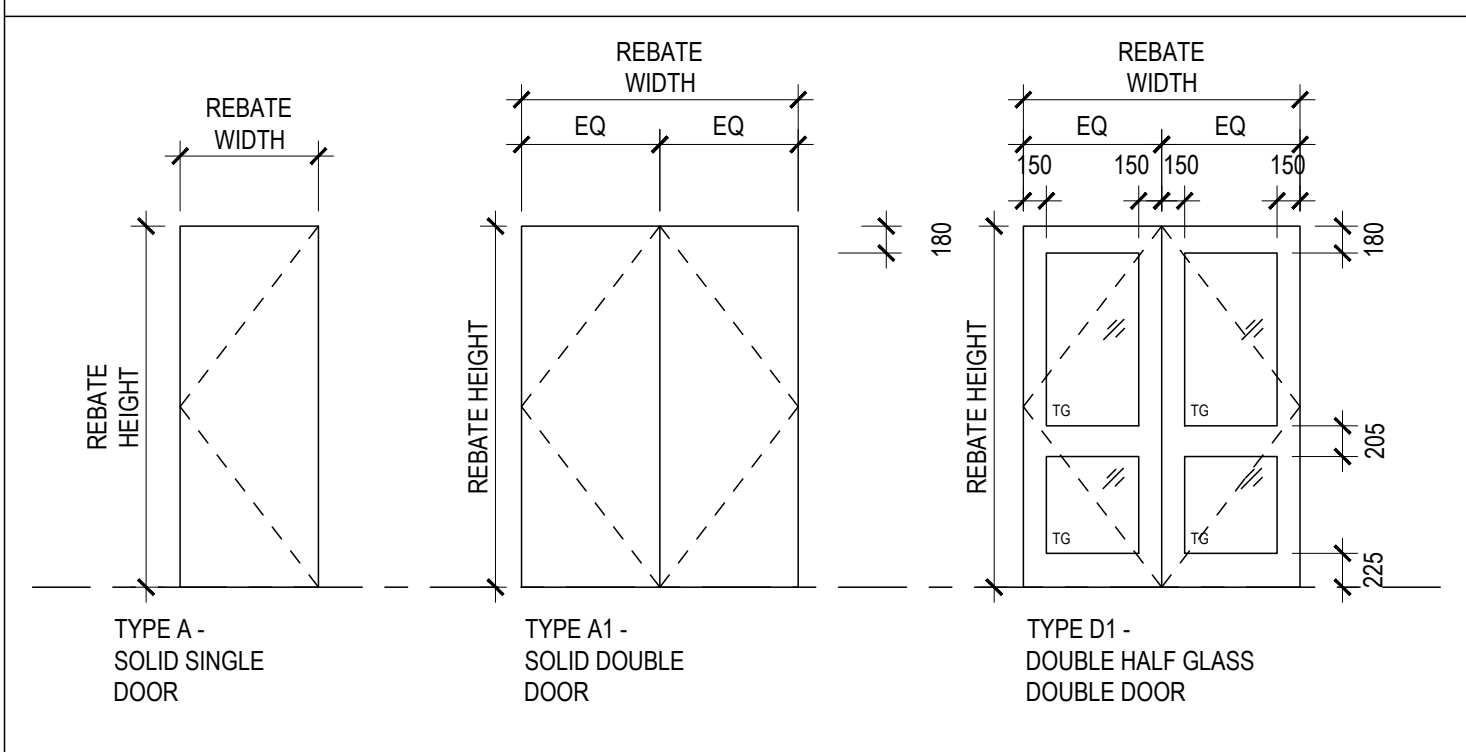
### TYPICAL INTERIOR DETAILS - HOLLOW METAL FRAME



## DOOR FRAME ELEVATIONS



## DOOR PANEL ELEVATIONS



## C - SUSPENDED CEILING ASSEMBLIES

TYPE	DIAGRAM	DESCRIPTION	ASSEMBLY-SPECIFIC NOTES
<div>C1</div> <div>C2</div>		<p><b>SUSPENDED ACOUSTIC TILE CEILING WITH SUPPORT GRID SYSTEM (DRY AREAS)</b></p> <p>VAR NEW (WHERE NOTED) MAIN BEAM &amp; CROSS TEE DRYWALL GRID SYSTEM SUPPORT FRAMING AS REQUIRED C/W WIRE TIE HANGERS. EXISTING TO REMAIN SHALL BE MADE GOOD.</p> <p>16mm ACOUSTIC CEILING TILE: REFER TO SPEC</p>	<p>NOTE: ALL CEILING GRID SYSTEM SUPPORT FRAMING, HANGERS AND TIE WIRE TO BE HOT-DIPPED GALVANIZED.</p> <p>NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO PLYWOOD ROOF DECKING. CONTRACTOR TO PROVIDE ADDITIONAL ENGINEERED FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED FIXTURES.</p>
<div>C3</div>		<p><b>SUSPENDED GYPSUM BOARD CEILING WITH SUPPORT GRID SYSTEM OR STUD FRAMING (WET AREAS)</b></p> <p>VAR MAIN BEAM AND CROSS TEE DRYWALL GRID SYSTEM SUPPORT FRAMING AS REQUIRED C/W WIRE TIE SUPPORTS</p> <p>16mm GB GYPSUM BOARD TO ALIGN WITH EXISTING ADJACENT</p> <p>VAR FINISH, REFER TO FINISH PLANS</p>	<p>NOTE: ALL DRYWALL GRID SYSTEM SUPPORT FRAMING, HANGERS AND TIE WIRE TO BE HOT-DIPPED GALVANIZED.</p> <p>NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO PLYWOOD ROOF DECKING. CONTRACTOR TO PROVIDE ADDITIONAL ENGINEERED FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED FIXTURES</p>

### LEGEND

AL	ALUMINUM
AN	CLEAR ANODIZED
BA	BATT INSULATION
HM	HOLLOW METAL
PI	POLYISO INSULATION
PN	PAINT
SCW	SOLID CORE WOOD
ST	STAIN
CF	CLEAR FINISH
WD	WOOD
TG	TEMPERED GLASS

## HARDWARE LEGEND

AO	AUTOMATIC DOOR OPENER
CC	CONCEALED CLOSER
CH	COAT HOOK
CL	CLOSER
CLF	CLASSROOM LOCK FUNCTION
CM	CENTRE MULLION
CS	CARD SWIPE
DC	DOOR CONTACT
DP	DOOR PULL
DS	DOOR STOP
ED	PANIC BAR EXIT DEVICE
EHO	ELECTRIC HOLD OPEN
EL	ELECTRIC LATCH
ESC	ELECTRIC SCREAMER
EST	ELECTRIC STRIKE
HO	HOLD OPEN, MAGNETIC
KP	KICKPLATE, SS.
L	LATCH, LOCKSET
LOF	OFFICE FUNCTION LOCKSET
PH	PUSH BUTTON
PB	PANIC HARDWARE
PHA	PANIC HARDWARE W/ ALARM OVERRIDE
PP	PUSH / PULL
PRV	PRIVACY LOCKSET
S	DOOR SIGNAGE
TH	THRESHOLD
WS	WEATHER STRIPPING

### DOOR & FRAME NOTES

1. CONTRACTOR TO CONFIRM ALL FINISHES, LOCATIONS, AND QUANTITIES AND NOTIFY CONSULTANT OF ANY DISCREPANCIES.
2. ALL FIRE RATED DOORS REQUIRE DOOR CLOSERS.
3. ALL EXIT DOORS TO HAVE HARDWARE IN CONFORMANCE TO O.B.C EXIT REQUIREMENTS. GENERAL CONTRACTOR TO CO-ORDINATE INSTALLATION AND LOCATIONS WITH DOOR AND HARDWARE MANUFACTURER.
4. ALL EXTERIOR DOORS TO BE INSULATED & HAVE THERMALLY BROKEN FRAMES. FILL FRAMES AND SPACE BETWEEN FRAMES AND ADJACENT MATERIALS W/ SRPAY FOAM INSULATION TO FULLY SEAL AGAINST ALL AIR INFILTRATION.
5. FOR DOOR SWINGS REFER TO PLAN.
6. FOR PAINT COLOURS REFER TO FINISH SCHEDULE AND ELEVATIONS.
7. PROVIDE ACOUSTIC SEALANT AND FILL FRAME AT ALL DOORS IN ACOUSTICALLY RATED WALL ASSEMBLIES AND ALL DOORS AT OFFICES.
8. ALL GLAZING IN DOORS & SCREENS TO BE TEMPERED.
9. COORDINATE THROAT SIZE TO WALL SCHEDULE AND MANUFACTURES TOLERANCES. FOR DOORS TO BE INSTALLED IN EXISTING WALLS. VERIFY EXISTING WALL THICKNESS ON SITE. COORDINATE SIZE OF FRAME TO ACCOMMODATE EXISTING WALL THICKNESS.
10. CONTRACTOR TO COORDINATE JAMB WIDTHS AND DETAILS WITH ON-SITE CONDITIONS. CONTRACTOR TO PRODUCE SHOP-DRAWINGS OF JAMB DETAILS FOR ARCHITECTS REVIEW AND APPROVAL.
11. PROVIDE MANUFACTURERS FLOOR ANCHOR STRAPS FOR ALL HOLLOW METAL JAMB FRAMES AND MULLION FLOOR ANCHORS FOR HOLLOW METAL MULLIONS. ANCHORS TO BE FIRE RATED TYPE.
12. PROVIDE THERMALLY BROKEN THRESHOLDS AT ALL EXTERIOR DOORS.
13. PROVIDE WEATHER STRIPPING ON ALL EXTERIOR DOORS.
14. IN FRAME DETAILS GRAPHIC OF WALL ASSEMBLIES ARE GENERIC ONLY-CONTRACTOR MUST REFERENCE ASSEMBLY TYPES FOR EXACT WIDTH & COMPOSITION OF WALLS
15. ALL SCREEN FRAMES ARE TO BE PAINTED HOLLOW METAL, UNLESS OTHERWISE NOTED. REFER TO INTERIOR ELEVATIONS, DOOR & FINISH SCHEDULES FOR PAINT COLOURS.

## ASSEMBLY GENERAL NOTES

1. REFER TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS. THE CONTRACTOR IS TO ENSURE THE CONTINUITY OF ALL FIRE SEPARATIONS AS REQUIRED.
2. THE CONTRACTOR IS TO PROVIDE ULC-LISTED FIRESTOP SYSTEMS AS REQUIRED FOR ALL BUILDING SERVICE PENETRATIONS THROUGH RATED ASSEMBLIES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
3. THE CONTRACTOR IS TO PROVIDE ULC-LISTED FIRESTOP SYSTEMS AS REQUIRED FOR ALL RATED PARTITION ASSEMBLY CONDITIONS.
4. UNLESS NOTED OTHERWISE, ALL PARTITION AND FURRING ASSEMBLIES ARE TO EXTEND FROM STRUCTURAL DECK/SLAB TO U/S OF STRUCTURAL DECK/SLAB ABOVE.
5. HEIGHT LIMITS FOR NONLOADBEARING INTERIOR AND EXTERIOR CONCRETEBLOCK MASONRY IS TO CONFORM TO CBC 9.20.10.1. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING, LINTELS, AND LATERAL SUPPORT.
6. HEIGHT LIMITS OF INTERIOR AND FURRING PARTITION STEEL STUD FRAMING IS TO CONFORM TO CBC 9.24.2.1, OR STEEL STUD SUPPLIER HEIGHT TABLES.
7. THE CONTRACTOR IS TO PROVIDE ENGINEERED SHOP DRAWINGS, SIGNED AND SEALED BY A P.E. LICENSED WITHIN THE PROVINCE OF ONTARIO FOR ALL STEEL STUD FRAMING DENOTED AS "WEIRD-BEARING" OR "STRUCTURAL".
8. THE CONTRACTOR IS TO PROVIDE STRUCTURAL STUD FRAMING AS REQUIRED TO SUPPORT ALL EXTERIOR CURTAINWALL, STOREFRONT GLAZING AND PUNCH WINDOW SYSTEMS. IN ADDITION TO ALL INTERIOR SCREENS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE STUD SPACING AND CONFIGURATION AS REQUIRED TO MEET CURTAINWALL, STOREFRONT, PUNCH WINDOW, AND INTERIOR SCREEN SUPPLIER REQUIREMENTS.
9. PROVIDE CONT. ACOUSTICAL SEALANT (BOTH SIDES) AT TOP AND BOTTOM OF ALL INTERIOR STUD AND GYPSUM BOARD PARTITIONS. PROVIDE ULC-LISTED SEALANT AT ALL RATED PARTITIONS AS REQUIRED. REFER TO FIRE SEPARATION DRAWINGS.
10. ACCESS PANELS LOCATED WITHIN SUSPENDED GYPSUM BOARD CEILING ASSEMBLIES ARE TO BE PAINTED OUT TO MATCH THE SURROUNDING CEILING FINISH. PROVIDE ULC-LISTED ACCESS PANEL WHERE PANEL IS LOCATED IN A RATED CEILING. REFER TO FIRE SEPARATION DRAWINGS.
11. UNLESS NOTED OTHERWISE, ASSEMBLIES ABOVE DOORS, WINDOWS, EXTERIOR OPENINGS AND INTERIOR SCREENS IS TO BE THE SAME AS THE TYPE DENOTED ON EITHER SIDE.
12. ALL R AND RSI VALUES SHOWN ARE NOMINAL. REFER TO PROJECT MANUAL FOR FULL LISTING OF INSULATION TYPES AND WEATHER BARRIER TYPES.



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DO NOT SCALE DRAWINGS

**ISSUE DATE:**

[illegible]

**PROJECT:**

Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

**DRAWING TITLE:**

## ASSEMBLIES & DOOR SCHEDULE

PROJECT NO: 20931  
SCALE: AS NOTED  
DRAWN BY: JG  
REVIEWED BY: JC-B

DRAWING NO.

A001

GRAPHICS LEGEND		
TAGS	DRAWING TAGS	ASSEMBLY TAGS
 DOOR TAG	 DETAIL NUMBER DRAWING SHEET NUMBER	 WALL ASSEMBLY TAG
 SCREEN NUMBER TAG (REFER TO SCREEN SCHEDULE)	 SECTION NUMBER DRAWING SHEET NUMBER	 ROOF ASSEMBLY TAG
 WINDOW UNIT TAG (REFER TO WINDOW SCHEDULE)	 EXTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER	 FLOOR ASSEMBLY TAG
 CURTAIN WALL UNIT TAG (REFER TO WINDOW SCHEDULE)	 INTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER	 CEILING TAG
 MATERIAL FINISH TAG (REFER TO FINISH SCHEDULE)	 GRID BUBBLE	(REFER TO ASSEMBLIES SCHEDULES)
20 R @ 100mm	 SPOT ELEVATION (ABOVE FINISH FLOOR)	
	LIVING ROOM  ROOM TAG WITH AREA	
	 REVISION TAG	
	 CENTRELINE	

## GENERAL NOTES

---

1. THE CONTRACTOR WILL VERIFY ALL DIMENSIONS FOR THE WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.
2. DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES.
3. ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF LGA ARCHITECTURAL PARTNERS. ALL COPYRIGHT CONDITIONS ARE RESERVED BY THE ARCHITECT WITH RESPECT TO THESE DOCUMENTS. THESE DOCUMENTS SHALL NOT BE DUPLICATED OR USED FOR OTHER THAN THE PURPOSE FOR WHICH THEY WERE ISSUED.
4. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE WORK DESCRIBED IN THESE DRAWINGS OR SPECIFICATIONS WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE ARCHITECT. REFER TO THE SPECIFICATION FOR THE FULL LIST OF REQUIREMENTS AND PROCEDURES THAT MUST BE FOLLOWED TO MAKE ANY SUBSTITUTIONS. THE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY REQUEST FOR SUBSTITUTION.
5. THE ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LANDSCAPE, STRUCTURAL, ELECTRICAL, MECHANICAL, CIVIL, GEOTECHNICAL, ENVIRONMENTAL CONSULTANTS DOCUMENTS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO ANY EXECUTION OF RELATED WORK.
6. THE CONTRACTORS SHALL ENSURE THAT MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS.
7. THE CONTRACTORS SHALL ENSURE THAT THE LOCATIONS OF ALL UNDERGROUND SERVICES ARE IDENTIFIED PRIOR TO THE COMMENCEMENT OF WORK AND EXCAVATIONS. THE CONTRACTOR IS FULLY RESPONSIBLE TO REPAIR ANY DAMAGE TO UNDERGROUND SERVICES THEY HAVE COMMITTED.
8. ALL STRUCTURAL COMPONENTS TO BE TAKEN OFF THE STRUCTURAL DOCUMENTS. NO STRUCTURAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
9. ALL MECHANICAL COMPONENTS TO BE TAKEN OFF THE MECHANICAL DOCUMENTS. NO MECHANICAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
10. ALL ELECTRICAL COMPONENTS TO BE TAKEN OFF THE ELECTRICAL DOCUMENTS. NO ELECTRICAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
11. ALL CIVIL COMPONENTS TO BE TAKEN OFF THE CIVIL DOCUMENTS. NO CIVIL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
12. ALL LANDSCAPE COMPONENTS TO BE TAKEN OFF THE LANDSCAPE DOCUMENTS. NO LANDSCAPE DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.

ARCHITECTURAL ABBREVIATIONS LEGEND					
ABBREVIATIONS MAY OR MAY NOT INCLUDE PERIOD PUNCTUATION. ABBREVIATIONS APPLY TO ARCHITECTURAL DOCUMENTS ONLY.					
@	AT	FE	FIRE EXTINGUISHER	REQ	REQUIRED
&	AND	FF	FLOOR FINISH	REV	REVERSE
AB	AIR BARRIER	FFL	FINISHED FLOOR LEVEL	RF	RESILIENT FLOORING
ACH	ADULT CHANGE TABLE	FH	FIRE HYDRANT	RL	RECESSED LIGHTING
ACM	ALUMINUM COMPOSITE PANEL\	FG	FIXED GLASS	RM	ROOM
ADO	AUTOMATIC DOOR OPENER	FHC	FIRE HOSE CABINET	RO	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	FIN	FINISHED	ROW	RIGHT-OF-WAY
AG	ABOVE GRADE	F/O	FACE OF	RP	REMOVABLE PANEL
ALUM	ALUMINUM	FR. GL	FROSTED GLASS	RR	REMOVE & REPLACE
ANOD	ANODIZED	FRR	FIRE RESISTANCE RATING	RTU	ROOF TOP UNIT
AP	ACCESS PANEL	FS	FIRE SHUTTER	RWL	RAIN WATER LEADER
ARCH	ARCHITECTURAL	G	GARBAGE BIN	S	SEALER
AVB	AIR & VAPOUR BARRIER	G1S	GOOD ONE SIDE	SB	SANITARY BIN
BB	BULLETIN BOARD	G2S	GOOD TWO SIDES	SC	SEALED CONCRETE
BCH	BABY CHANGE TABLE	GA	GAUGE	SCH	SCHEDULE
BD	BOARD	GALV	GALVANIZED	SCR	SWIPE CARD READER
BF	BARRIER FREE	GB	GRAB BAR	SCW	SOLID CORE WOOD
BG/AS	BELOW GRADE/ABOVE SLAB	GYP	GYPSUM	SD	SOAP DISPENSER
BLDG	BUILDING	GWB	GYPSUM WALL BOARD	SF	SQUARE FEET
BLK	BULKHEAD	HB	HOSEBIB	SG	SUPPLEMENTARY GUIDELINES
BOTT	BOTTOM	HD	HAND DRYER		OF OBC
BTF	BOTTLE FILLER	HM	HOLLOW METAL	SH	SILL HEIGHT
BTLS	BLUETOOTH LOCKSET	H/O	HOLD OPEN	SIM	SIMILAR
BTWN	BETWEEN	HOR	HORIZONTAL	SL	SLIDING DOORS
CAB	CABINET	HR	HOUR	SM	SQUARE METER(S)
CAT	CATEGORY	HSS	HOLLOW STEEL SECTION	SMK	SMOKE SEAL
CB	CATCH BASIN	HT	HEIGHT	SND	SANITARY NAPKIN DISPOSAL
C/C	CENTRE TO CENTRE	ID	INSIDE DIAMETER	SOG	SLAB ON GRADE
CC	CONCEALED CLOSER	INSUL	INSULATION	SPEC	SPECIFICATION
CF	CEILING FINISH	KLS	KEYLATCH SET	SQ	SQUARE
CG	CORNER GUARD	KP	KICKPLATE	SS	STAINLESS STEEL
CH	COAT HOOK	LF	LIGHT FIXTURE	SSF	STAINLESS STEEL FRAME
CHW	CUSTOM HARDWARE	LK	LOCKERS	SSG	STRUCTURAL SILICON GLAZING
CJ	CONTROL JOINT	LLS	LEVER LATCH SET	SSM	SOLID SURFACE
CL	CENTER LINE	M&E	MECHANICAL & ELECTRICAL	ST	STEEL
CLG	CEILING	MAG	MAGLOCK	STC	SOUND TRANSMISSION CLASS
CLOS	CLOSER	MAS	MASONRY	STD	STANDARD
CLR	CLEAR	MATL	MATERIAL	ST GR	STAIN GRADE
CO	CLEAR OPENING	MAX	MAXIMUM	STRUCT	STRUCTURAL
COL	COLUMN	MB	MOISTURE BARRIER	SUPP	SUPPLEMENTARY
CONC	CONCRETE	MDF	MEDIUM DENSITY FIBREBOARD	T	TREADS
CONT	CONTINUOUS	MECH	MECHANICAL	TB	THERMALLY BROKEN
CONST	CONSTRUCTION	MFR	MANUFACTURER	TBD	TO BE DETERMINED
COORD	COORDINATE	MHO	MAGNETIC HOLD OPEN	TG	TEMPERED GLAZING
COR	CORROSION	MI	MIRROR	THK	THICK
CPT	CARPET TILE	MIN	MINIMUM	TH	THRESHOLD
CR	CARD READER	MO	MASONRY OPENING	TL	TILE
CST	CONCRETE STAIN	MTL	METAL	TM	TILT MIRROR
CW	COMPLETE WITH	N/A	NOT APPLICABLE	T/O	TOP OF
D	DRYER	NIC	NOT IN CONTRACT	TP	TOILET PAPER DISPENSER
DB	DEADBOLT	NO.	NUMBER	TS	TRANSITION STRIP
DC	DOOR CONTACT	NTS	NOT TO SCALE	TYP	TYPICAL
DF	DRINKING FOUNTAIN	OBC	ONTARIO BUILDING CODE	TWB	TOWEL BAR
DIA	DIAMETER	O.C.	ON CENTRE	TWF	THROUGH WALL FLASHING
DIM	DIMENSION	OD	OUTSIDE DIAMETER	ULC	UNDERWRITER'S LABORATORY
DLO	DAYLIGHT OPENING (GLAZING)	OH	OVERHEAD		OF CANADA
DN	DOWN	OTA	OPEN TO ABOVE	UNO	UNLESS NOTED OTHERWISE
DW	DISHWASHER	OTB	OPEN TO BELOW	U/S	UNDERSIDE
DWG	DRAWING	OPG	OPENING	VERT	VERTICAL
EB	EXIT BUTTON	OPP	OPPOSITE	VB	VAPOUR BARRIER
EF	EXHAUST FAN	OWSJ	OPEN WEB STEEL JOIST	VC	VENEER CORE
ELEC	ELECTRICAL	BFPB	BARRIER FREE PUSH BUTTON	VCT	VINYL COMPOSITE TILE
ELEV	ELEVATION	PH	PANIC HARDWARE	VIF	VERIFY IN FIELD
ELVR	ELEVATOR	PL	PROPERTY LINE	VP	VAPOUR PERMEABLE
EP	ELECTRICAL PANEL	PLAM	PLASTIC LAMINATE	VR	VAPOUR RETARDER
EQ	EQUAL	PLS	PRIVACY LOCKET	W	WASHER
EQUIP	EQUIPMENT	PLY	PLYWOOD	W/	WITH
ES	ELECTRIC STRIKE	PSF	PRESSED STEEL FRAME	WB	WALL BASE
EXIST	EXISTING	PT	PAINT	W/C	WASHROOM
EXP	EXPOSED	PTD	PAINTED	WD	WOOD
EXT	EXTERIOR	PTWR	PAPER TOWEL	WDV	WOOD VENEER
F	REFRIGERATOR		& WASTE RECEPTACLE	WG	WIRED GLASS
FAAP	FIRE ANNUNCIATOR & ALARM PANEL	R	RISER	WM	WATERMAIN
FAN EX	FAN EXHAUST	RAD	RADIATOR	WRB	WATER RESISTANT BARRIER
FB	FLASHBOLT	RCP	REFLECTED CEILING PLAN	WS	WEATHERSTRIP
FCL	FINISHED CEILING ELEVATION	RD	ROOF DRAIN	WSH	WINDOW SHADE
FD	FLOOR DRAIN	RE-INF	RE-INFORCED	WTB	WHITE BOARD



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**DO NOT SCALE DRAWINGS**

[illegible]

PROJECT:  
Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

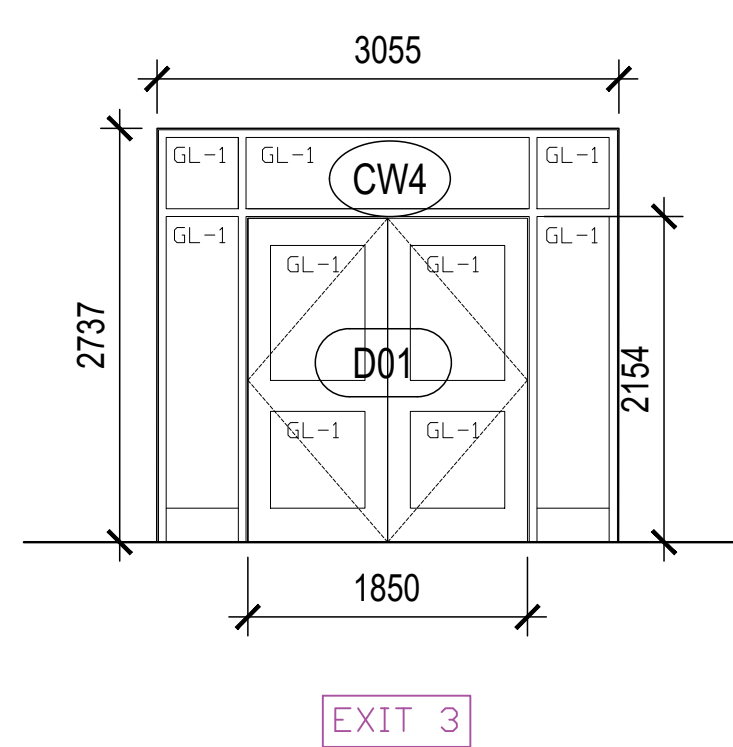
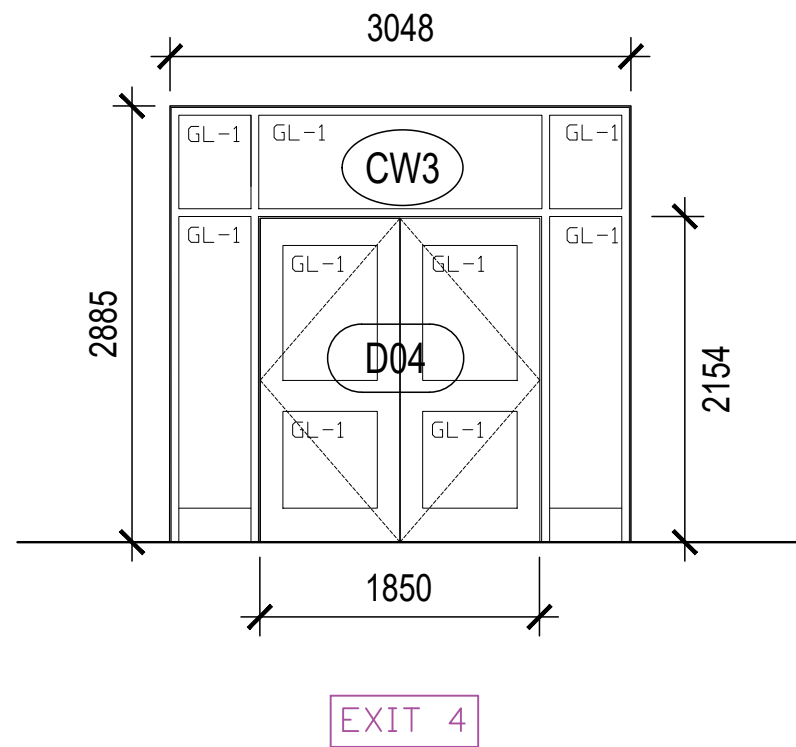
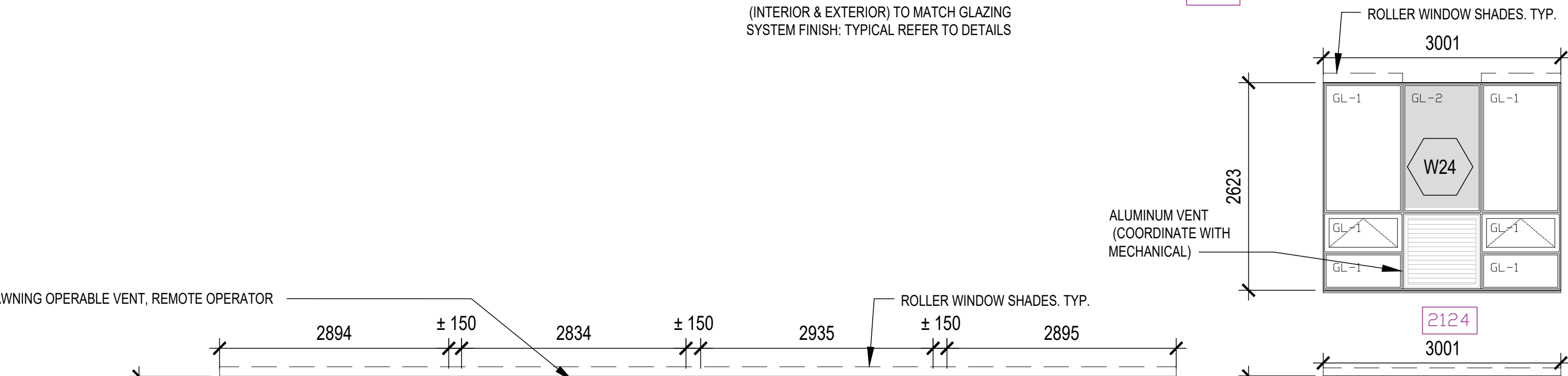
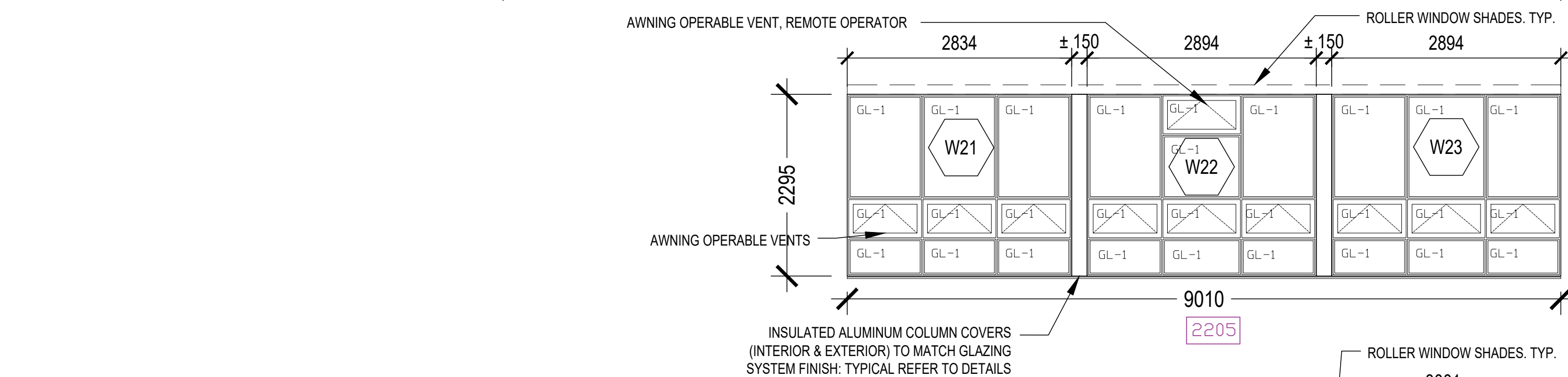
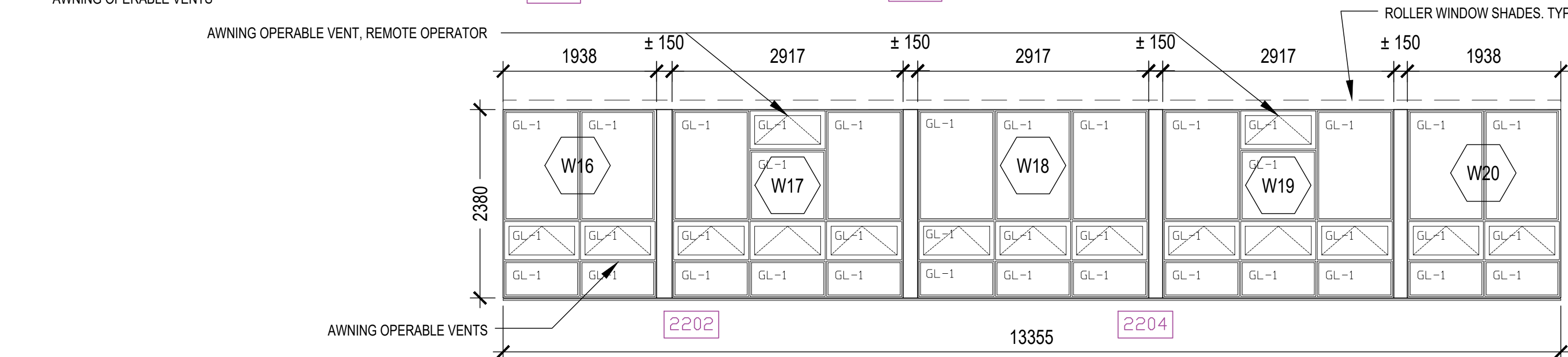
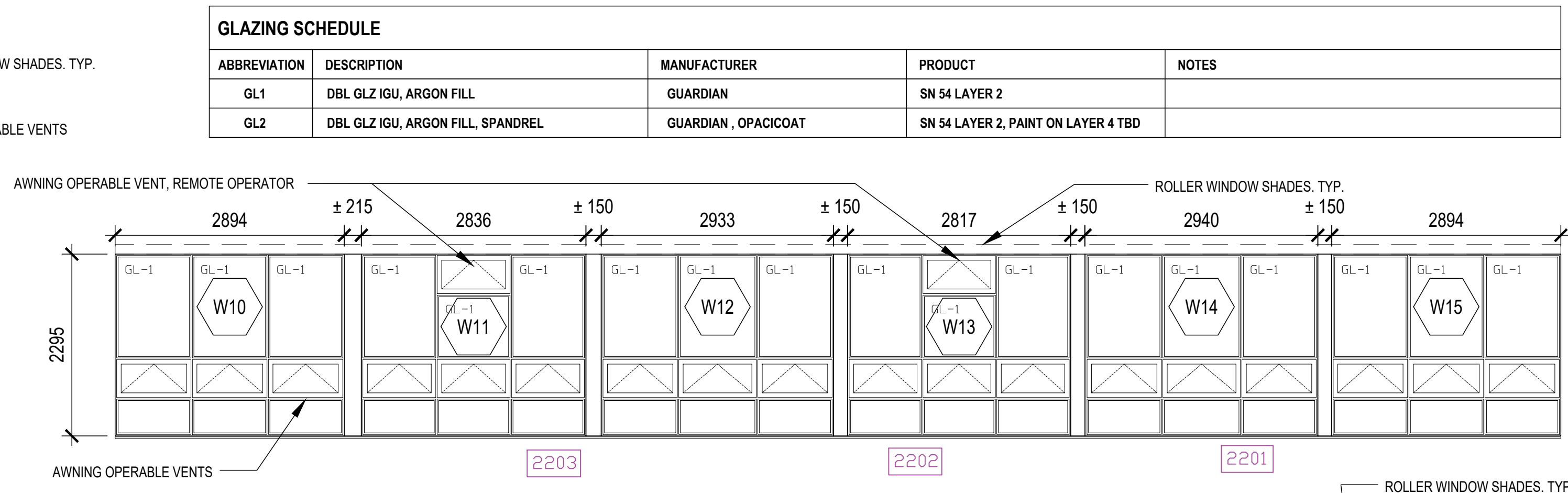
DRAWING TITLE:

ANNOTATION LEGEND  
ABBREVIATIONS,  
& GENERAL NOTES

PROJECT NO:	20931
SCALE:	AS NOTED
DRAWN BY:	JG
REVIEWED BY:	JC-B

DRAWING NO:

A002



**PHASING LEGEND**

The phasing legend defines the color and line style for different project phases. It includes a color key for the building facade and a table for the phasing work items.

Color	Phasing
Orange	Roof Scope
Red	Window Replacement
Green	Gymnasium Sanitary & Civil
Blue	Gymnasium RTU
Purple	Cafeteria RTU & Ceiling Work
Dark Blue	Boiler Removal and Services Work
Dark Purple	Locker Refurbishment


The legend also includes a color key for the building facade: Orange for the main facade, Red for the gymnasium, Green for the cafeteria, Blue for the boiler room, and Purple for the locker room.

[illegible]

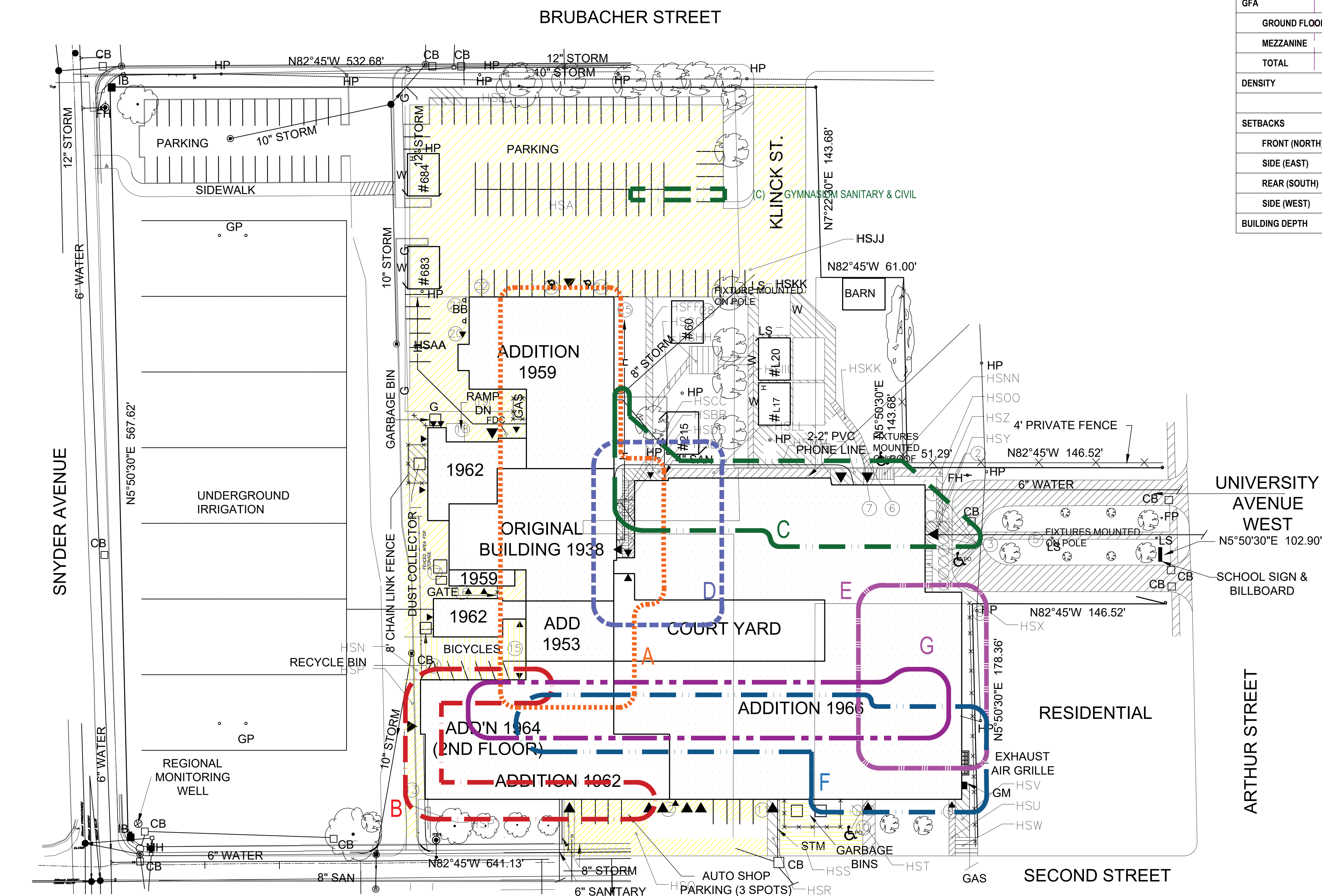
PROJECT:  
Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

DRAWING TITLE:

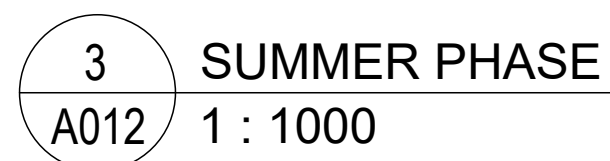
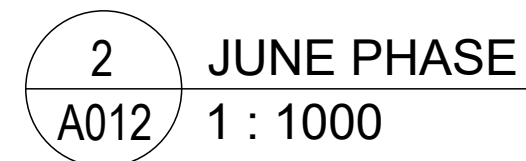
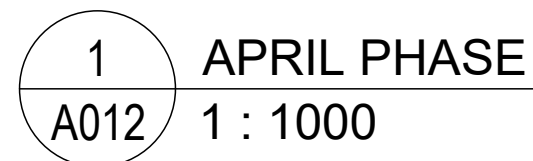
SITE PLAN  
& SITE DATA

PROJECT NO:	20931	PROJECT NORTH:	
SCALE:	AS NOTED		
DRAWN BY:	JG		
REVIEWED BY:	JC-B		

DRAWING NO:  
**A011**



DO NOT SCALE DRAWINGS

[illegible]

NO.	DATE	DESCRIPTION
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Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

## SITE DETAILS

### PHASING PLAN

# A012

## PROJECT NORTH:

THE DEMOLITION DRAWINGS ILLUSTRATE A GENERAL SCOPE OF WORK. IT IS THE FULL RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE FULL SCOPE OF DEMOLITION REQUIRED USING EXISTING CONDITIONS AND THE COMPLETE CONTRACT DOCUMENT SETS INCLUSIVE OF ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TO ACHIEVE THE FINAL SCOPE OF WORK.

1. CONTRACTOR TO REVIEW AND FOLLOW "H.A.S.P." (HEALTH AND SAFETY PROCEDURES) AS DICTATED IN THE SPECIFICATION BEFORE BEGINNING ANY WORK.
2. INFORMATION SHOWN ON THE DEMOLITION DRAWINGS IS BASED ON INFORMATION AVAILABLE FROM EXISTING BUILDING DRAWINGS AND A LIMITED VISUAL INSPECTION.
3. CONTRACTOR TO CHECK ALL DRAWINGS AGAINST ACTUAL CONDITIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL DIMENSIONS ARE TO BE DETERMINED USING THE PROPOSED CONTRACT DOCUMENTS. NO DIMENSIONS ARE TO BE INFERRED FROM THE DEMOLITION DRAWINGS.
5. CONTRACTOR TO MAKE GOOD ALL WALLS, CEILINGS AND FLOORING TO REMAIN THAT ARE AFFECTED BY DEMOLITION. WHERE EXISTING SURFACES ARE DISTURBED MAKE GOOD EXISTING SURFACE OR ENTIRE PLANE OF SURFACE BACK TO NEAREST CORNER OR CHANGE IN MATERIAL.
6. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY HOARDING TARPS, ETC TO PROTECT WORK AND MAINTAIN A DUST FREE ENVIRONMENT IN SURROUNDING AREAS.
7. CONTRACTOR TO MAKE GOOD ALL JUNCTIONS BETWEEN EXISTING STRUCTURES IDENTIFIED TO BE REMOVED AND EXISTING STRUCTURES IDENTIFIED TO REMAIN.
8. PROVIDE NOTICE DATE TO OWNER TO REMOVE ANY WANTED ITEMS FROM SITE
9. REMOVE & DISPOSE OF ALL EXISTING CEILING FINISHES AND SUPPORT SYSTEMS AS NOTED. FOR CLARITY OF DRAWINGS CEILING IS NOT DASHED IN DEMOLITION DRAWINGS, HOWEVER THEY MUST BE REMOVED AS NOTED HERE. REMOVAL OF EXISTING CEILING FINISHES SHALL INCLUDE ALL CEILING LAYERS, MATERIALS, SUPPORT SYSTEMS, MECHANICAL AND ELECTRICAL, AND ABANDONED DEBRIS IN THE CEILING SPACE. REMOVE ALL DOUBLE CEILINGS, WHERE OLDER CEILING REMAINS OBSCURED BY EXISTING CEILING.
10. REMOVE ALL ROOFING ASSEMBLY TO TOP OF DECK.
11. SALVAGE CEILING TILES FOR REUSE WHERE NOTED.
12. REMOVE & DISPOSE OF ALL ABANDONED SERVICES - FIXTURES, EQUIPMENT, CONDUITS, PIPE, WIRING, ETC. (INTERIOR AND EXTERIOR).
13. REMOVE & DISPOSE OF ALL EXISTING MILLWORK, FURNITURE, LOOSE MISCELLANEOUS ARTICLES AND EQUIPMENT UNLESS OTHERWISE NOTED.
14. REMOVE & DISPOSE ALL EXISTING SIGNAGE UNLESS OTHERWISE NOTED.
15. DEMOLISH ALL EXISTING ELEMENTS SHOWN HERE AS WELL AS ANY EXISTING ELEMENT WHERE DEMOLITION OF THE ELEMENT IS REQUIRED TO ACCOMMODATE THE WORK.
16. REMOVE ALL MECHANICAL SYSTEMS, FIXTURES, EQUIPMENT, PIPING, CONDUIT, DUCTWORK, ETC., UNLESS NOTED (IN AREA OF WORK).
17. THIS IS NOT AN EXHAUSTIVE LIST. TO BE READ WITH ALL DRAWINGS AND SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO DEMOLITION DRAWINGS AND SPEC SECTIONS).
18. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. REMOVE EXISTING DOORS, GRILLES, INCLUDING ALL FRAMING AS NOTED ON DEMO PLANS. ALL EXISTING LOCKS MUST BE RETURNED TO THE OWNER.

1. THE SCOPE OF WORK DOES NOT ENTAIL THE REMOVAL OF DESIGNATED SUBSTANCES.
2. IN NO WAY SHOULD THE CONTRACTOR ASSUME IT OTHERWISE TO BE 100% FREE OF DESIGNATED SUBSTANCES AND AS SUCH THE CONTRACTOR SHOULD TAKE EVERY PRECAUTION WHEN WORKING IN THE BUILDING.
3. IF THE CONTRACTOR ENCOUNTERS TOXIC OR HAZARDOUS SUBSTANCES, OR HAS REASONABLE GROUNDS TO BELIEVE THAT TOXIC OR HAZARDOUS SUBSTANCES ARE PRESENT, THE CONTRACTOR SHALL TAKE ALL REASONABLE STEPS, INCLUDING STOPPING THE WORK, TO ENSURE THAT NO PERSON'S EXPOSURE TO ANY TOXIC OR HAZARDOUS SUBSTANCE EXCEEDS ANY APPLICABLE TIME WEIGHTED LEVELS PRESCRIBED BY APPLICABLE LEGISLATION AT THE PLACE OF THE WORK AND IMMEDIATELY REPORT THE CIRCUMSTANCES TO THE OWNER IN WRITING.


[illegible]

**PROJECT:**

Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

**DRAWING TITLE:**

# BASEMENT FLOOR PLAN DEMOLITION

PROJECT NO:	20931	PROJECT NORTH:	
SCALE:	AS NOTED		
DRAWN BY:	JG		
REVIEWED BY:	JC-B		

**DRAWING NO:**

# A020




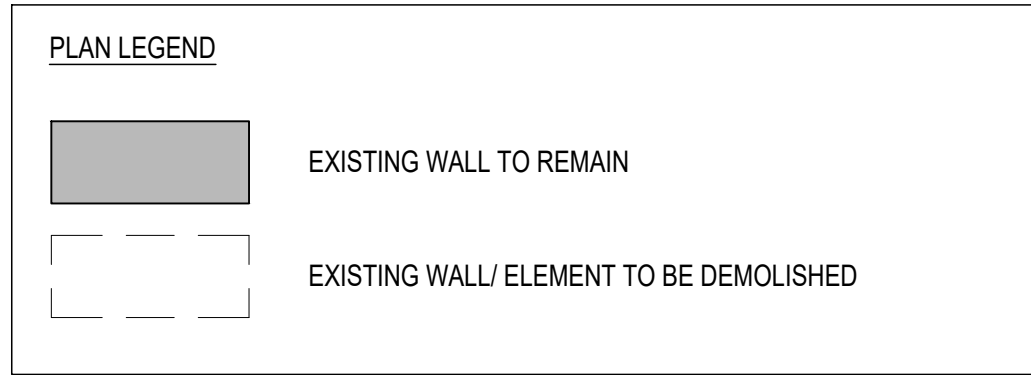
A021



1 : 300

PROJECT NORTH:





THE DEMOLITION DRAWINGS ILLUSTRATE A GENERAL SCOPE OF WORK. IT IS THE FULL RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE FULL SCOPE OF DEMOLITION REQUIRED USING EXISTING CONDITIONS AND THE COMPLETE CONTRACT DOCUMENT SETS INCLUSIVE OF ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TO ACHIEVE THE FINAL SCOPE OF WORK.

1. REMOVE EXISTING GLASS BLOCK AND TRIMS, INCLUDING INTERMEDIATE SUPPORT FRAMING BELOW THE HEAD OF THE OPENING.
2. REMOVE FLASHINGS AND SEALANTS TO EXPOSED MASONRY/STEEL STRUCTURE
3. REMOVE EXISTING INTERIOR SILLS AND SKIRTING. SALVAGE SOLID WOOD SILL ASSEMBLIES FOR REINSTALLATION IF CONSIDERED VIABLE.
4. REMOVE EXISTING ROLLER BLINDS AND TURN OVER TO SCHOOL FOR REUSE ELSEWHERE.
5. COORDINATE DEMOLITION & REPLACEMENT WORK AND PROTECT EXISTING MECHANICAL AIR CONDITIONING UNITS TO BE REINSTATED AFTER WINDOW REPLACEMENT.
6. EXISTING STEEL FRAMING AT TOP OF WINDOW OPENINGS IS TO REMAIN UNLESS NOTED OTHERWISE.

PRIOR TO COMMENCING WORK, READ 2017 ASBESTOS AUDIT UPDATE  
PREPARED BY MTE MARCH 15, 2017

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310 Spadina Ave, Suite 100B  
Toronto, Ontario, Canada M5T 2E8  
**T: 416 203 7600 F: 416 203 3342**  
lga-ap.com

**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

ISSUE DATE:

[illegible]

**PROJECT:**


Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

DRAWING TITLE:

### THIRD FLOOR PLAN DEMOLITION

PROJECT NO:	20931
SCALE:	AS NOTED
DRAWN BY:	JG
REVIEWED BY:	JC-B

**PROJECT NORTH:**



DRAWING NO:

A023

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DO NOT SCALE DRAWING:

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6. EXISTING STEEL FRAMING AT TOP OF WINDOW OPENINGS IS TO REMAIN UNLESS NOTED OTHERWISE.

PRIOR TO COMMENCING WORK, READ 2017 ASBESTOS AUDIT UPDATE  
PREPARED BY MTE MARCH 15, 2017

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**PROJECT:**


Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary

**DRAWING TITLE:**

## ROOF PLAN DEMOLITION

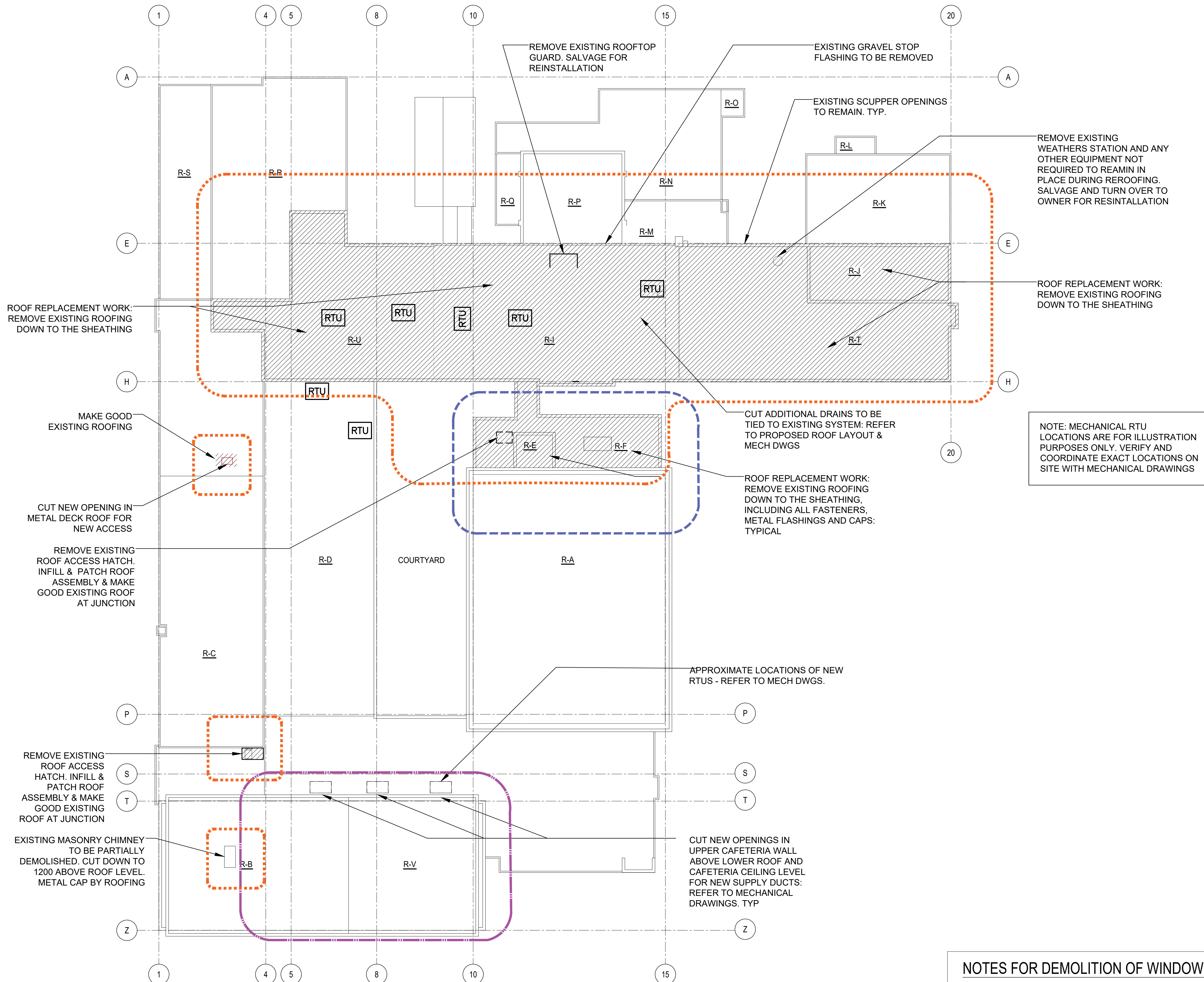
PROJECT NO: 20931  
SCALE: AS NOTED  
DRAWN BY: JG  
REVIEWED BY: JC-B

**PROJECT NORTH**

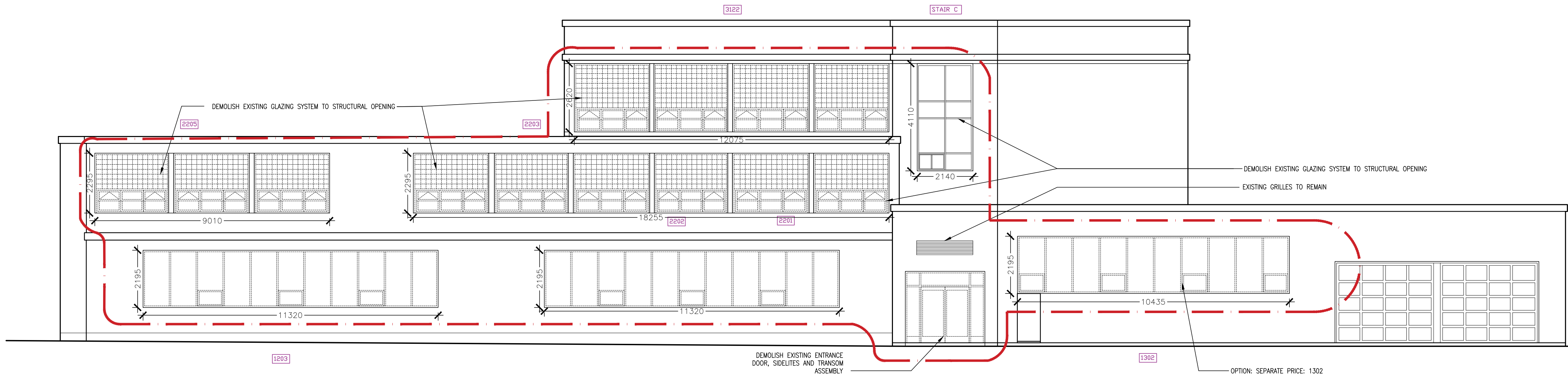
A circular compass rose with a cross inside. The letter 'N' is placed at the end of the line pointing towards the top right, indicating North.

DRAWING NO

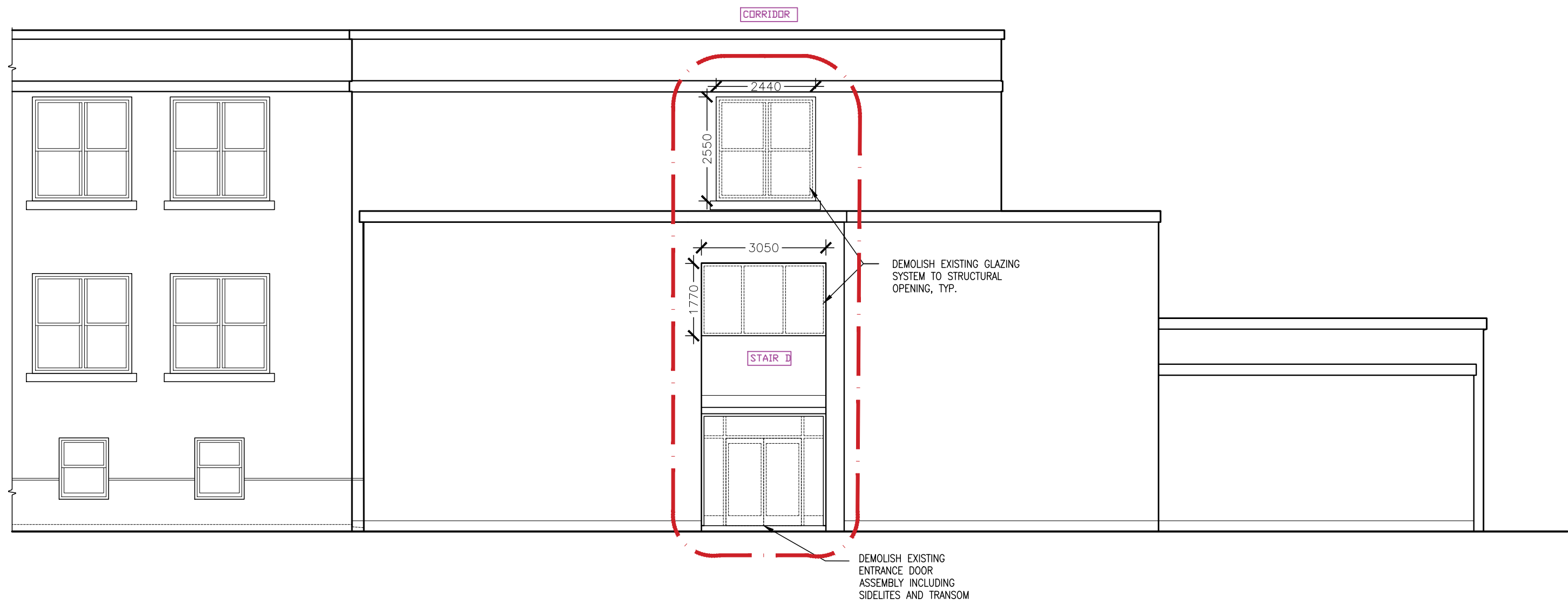
A024



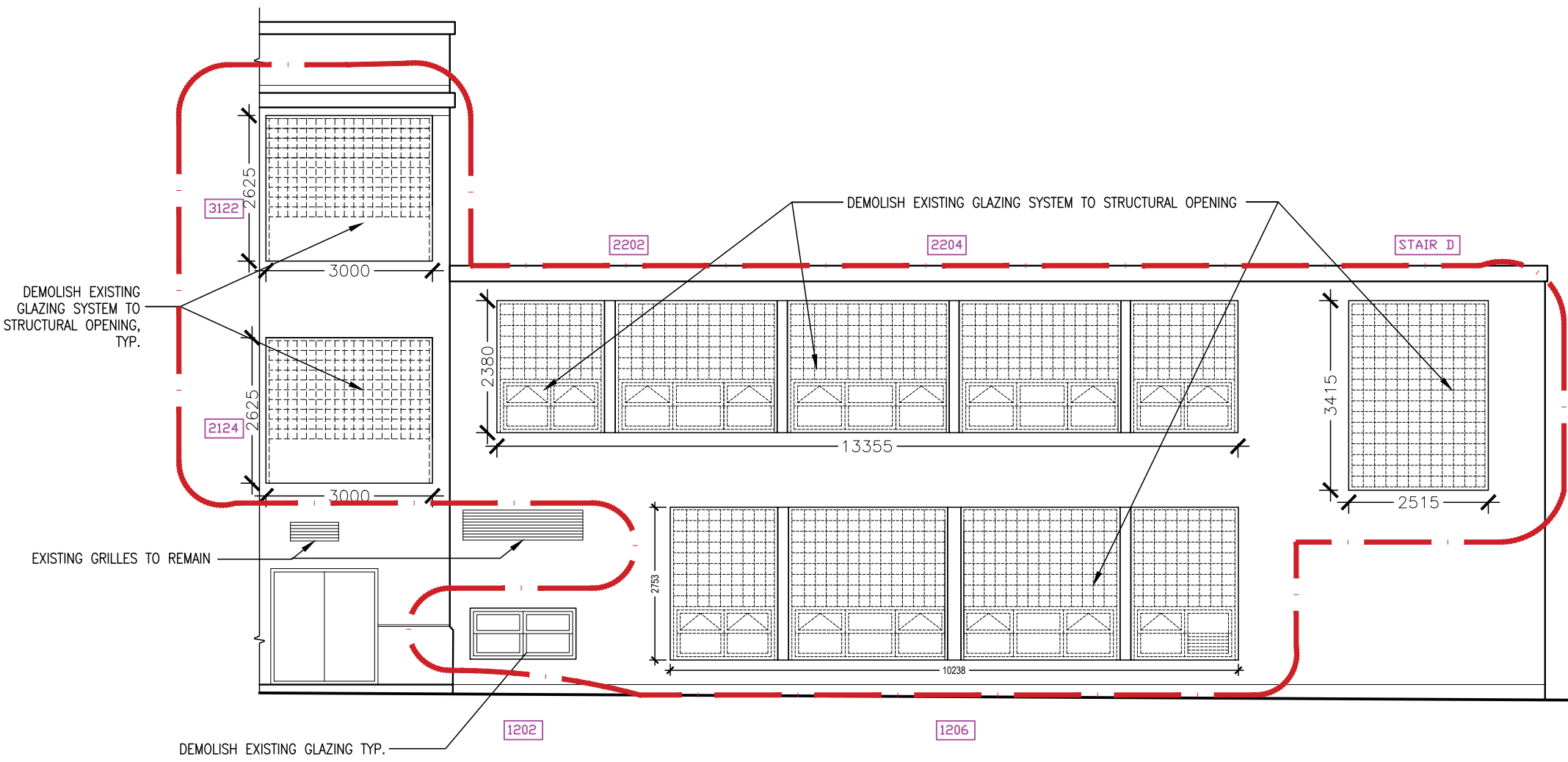
1 ROOF DEMOLITION PLAN  
A024 1 : 300



1 SOUTH ELEVATION  
A201 1 : 100



2 WEST ELEVATION  
A201 1 : 100






PROJECT:  
Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

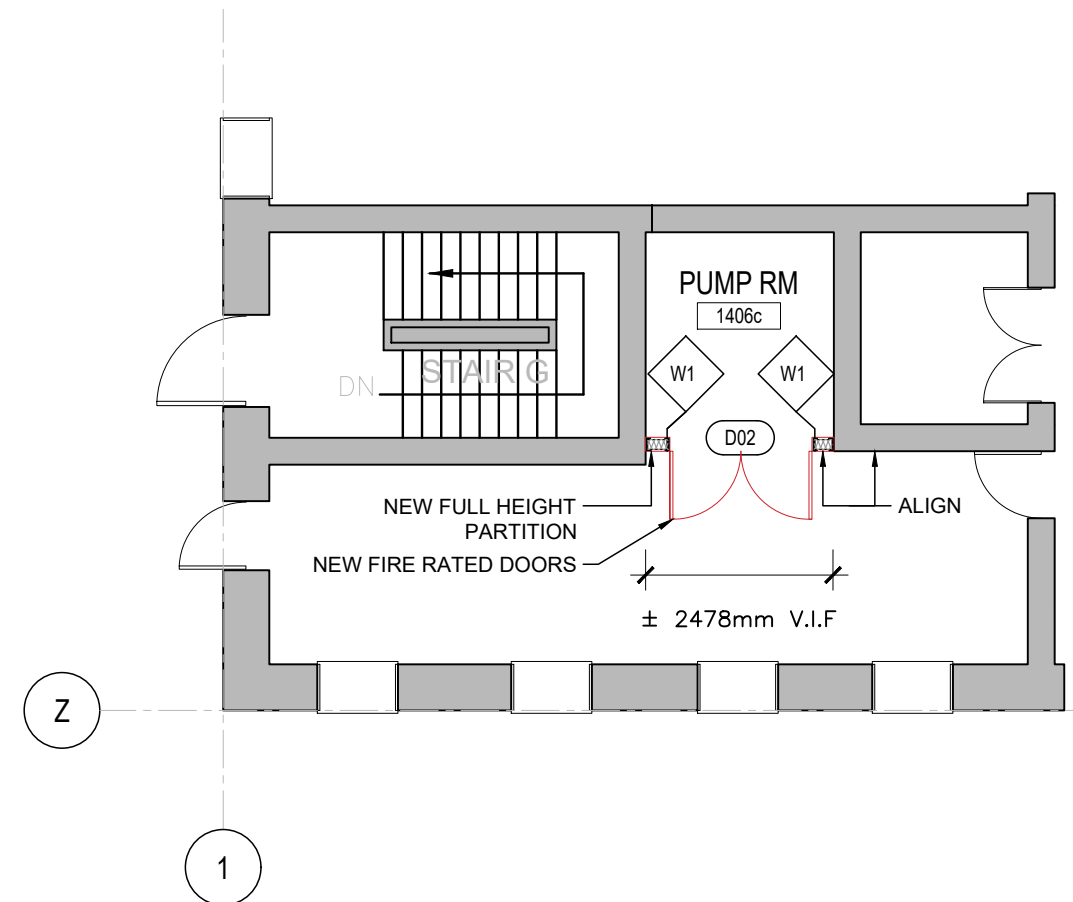
DRAWING TITLE:

**BASEMENT FLOOR  
PLAN  
PROPOSED**

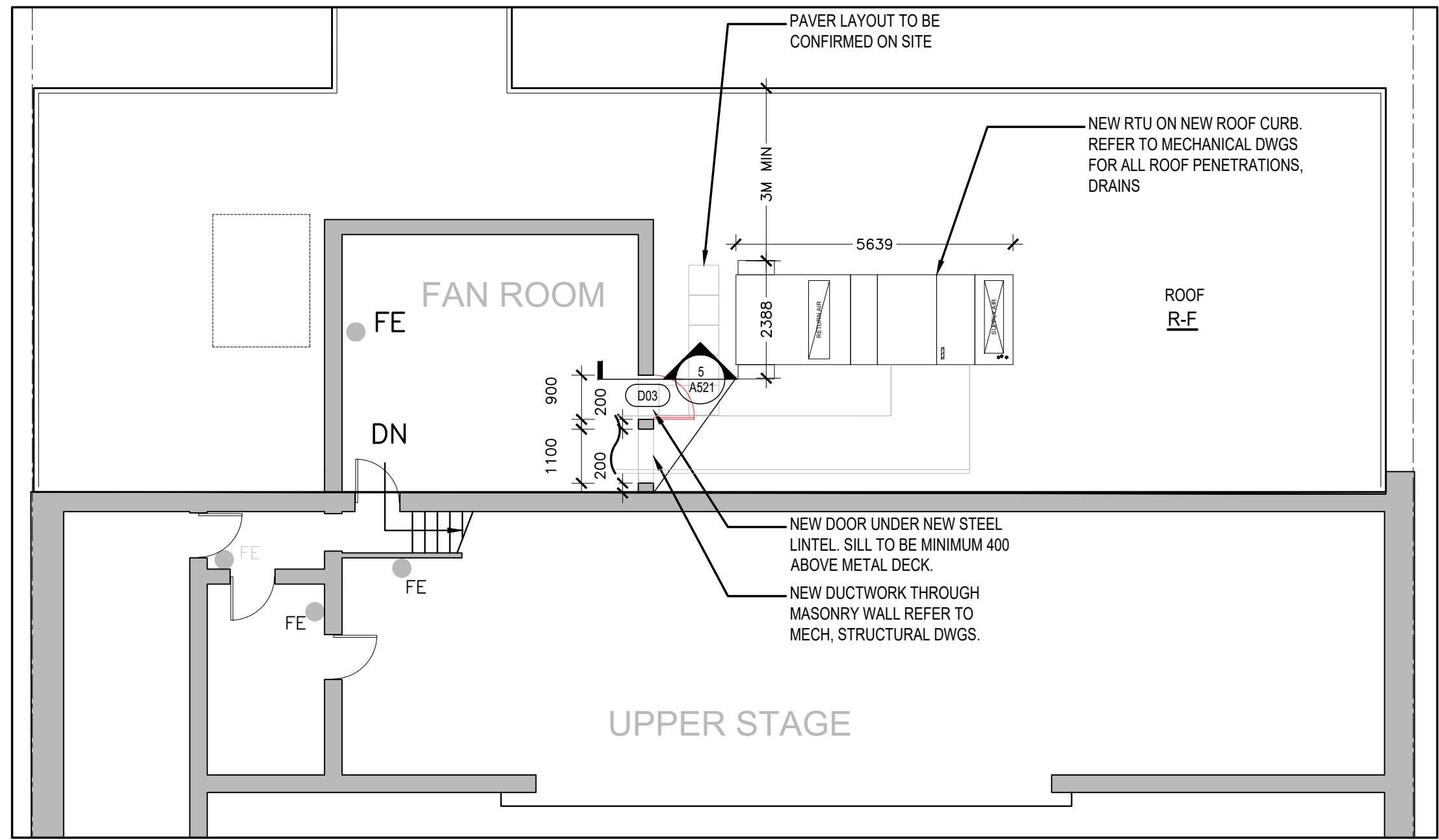
PROJECT NO:	20931	PROJECT NORTH:	
SCALE:	AS NOTED		
DRAWN BY:	JG		
REVIEWED BY:	JC-B		

DRAWING NO:

A100



2 PARTIAL PLAN AT PUMP RM  
A101 1 : 100



1 SECOND FLOOR PROPOSED PLAN  
A102 1 : 300

2 PARTIAL PLAN AT FAN ROOM & ROOF  
A102 1 : 100

**ISSUE DATE:**

NO.	DATE	DESCRIPTION
2	2021.03.16	ISSUED FOR TENDER
1	2021	DD REVIEW

PROJECT:  
Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

DRAWING TITLE:

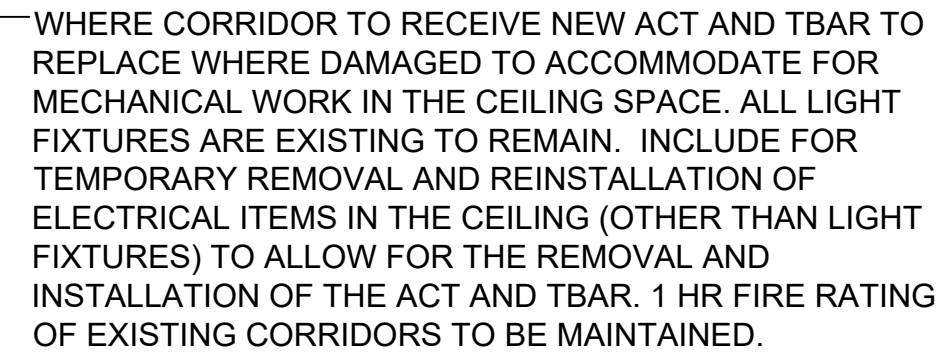
SECOND FLOOR  
PLAN  
PROPOSED

PROJECT NO: 20931  
 SCALE: AS NOTED  
 DRAWN BY: JG  
 REVIEWED BY: JC-B

DRAWING NO:

A102

DO NOT SCALE DRAWINGS



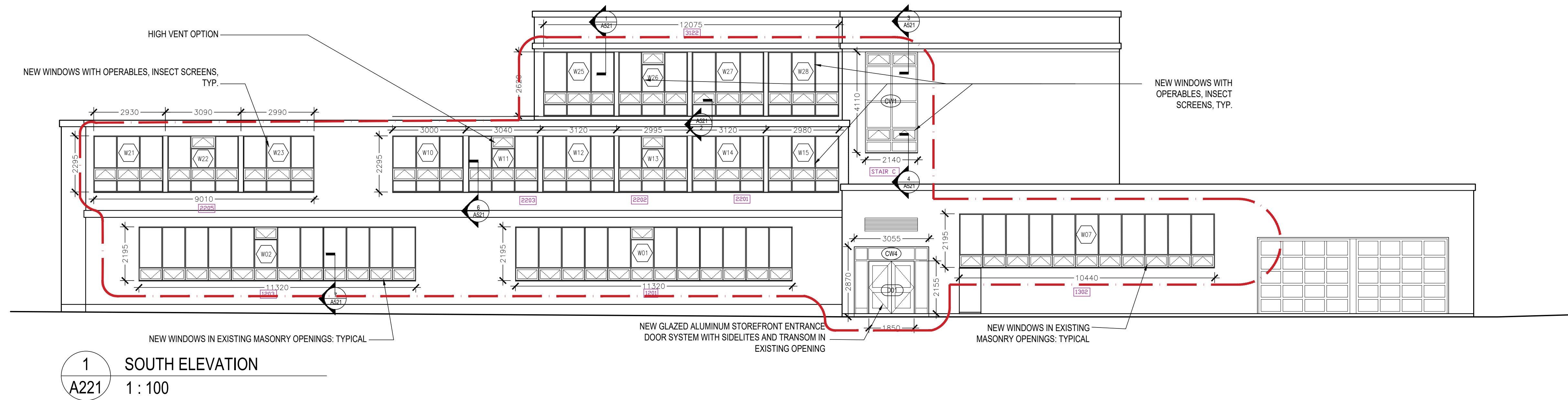
NO.	DATE	DESCRIPTION
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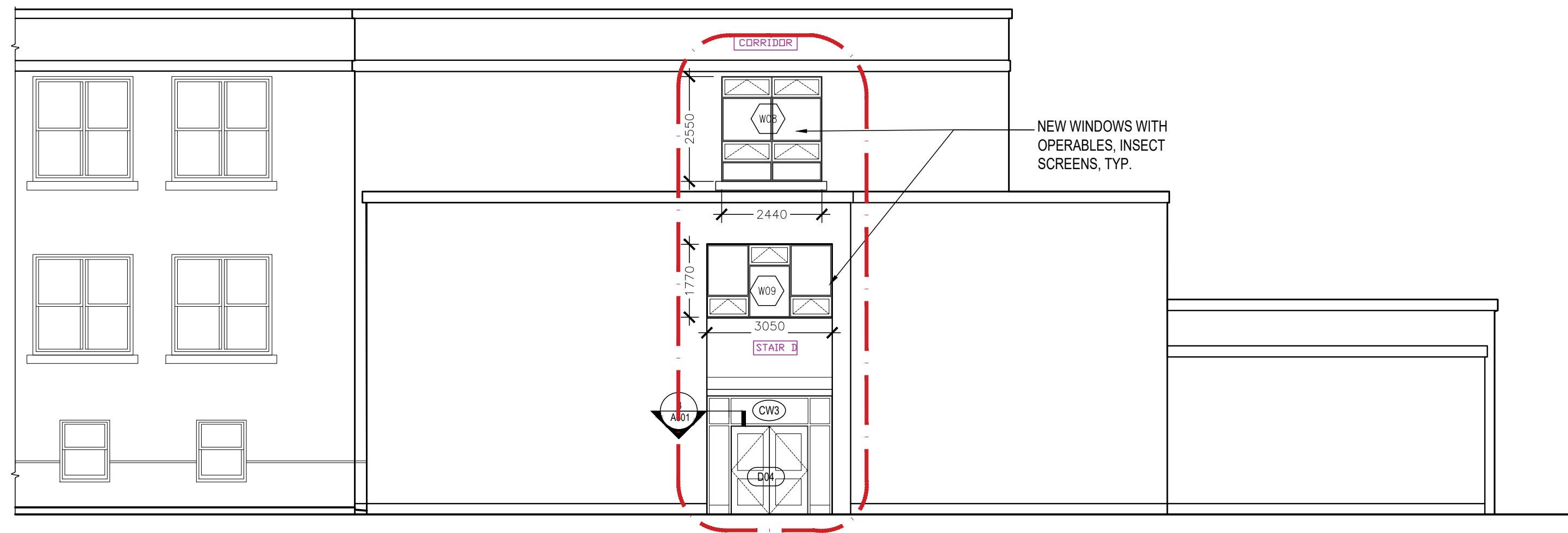
THIRD FLOOR  
PLAN  
PROPOSED

# A103

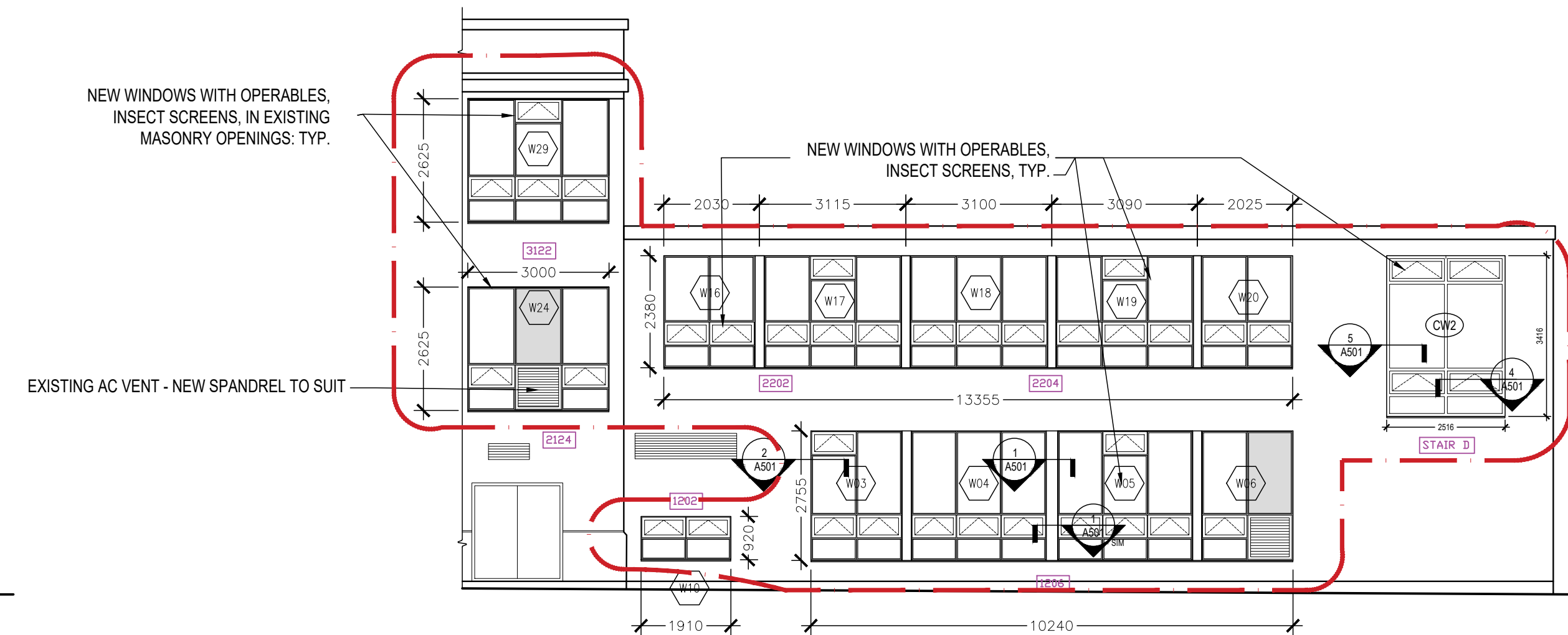




1 SOUTH ELEVATION  
A221 1 : 100



2 WEST ELEVATION  
A221 1 : 100



3 EAST ELEVATION  
A221 1 : 100

**ISSUE DATE:**

[illegible]

**PROJECT:**

Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

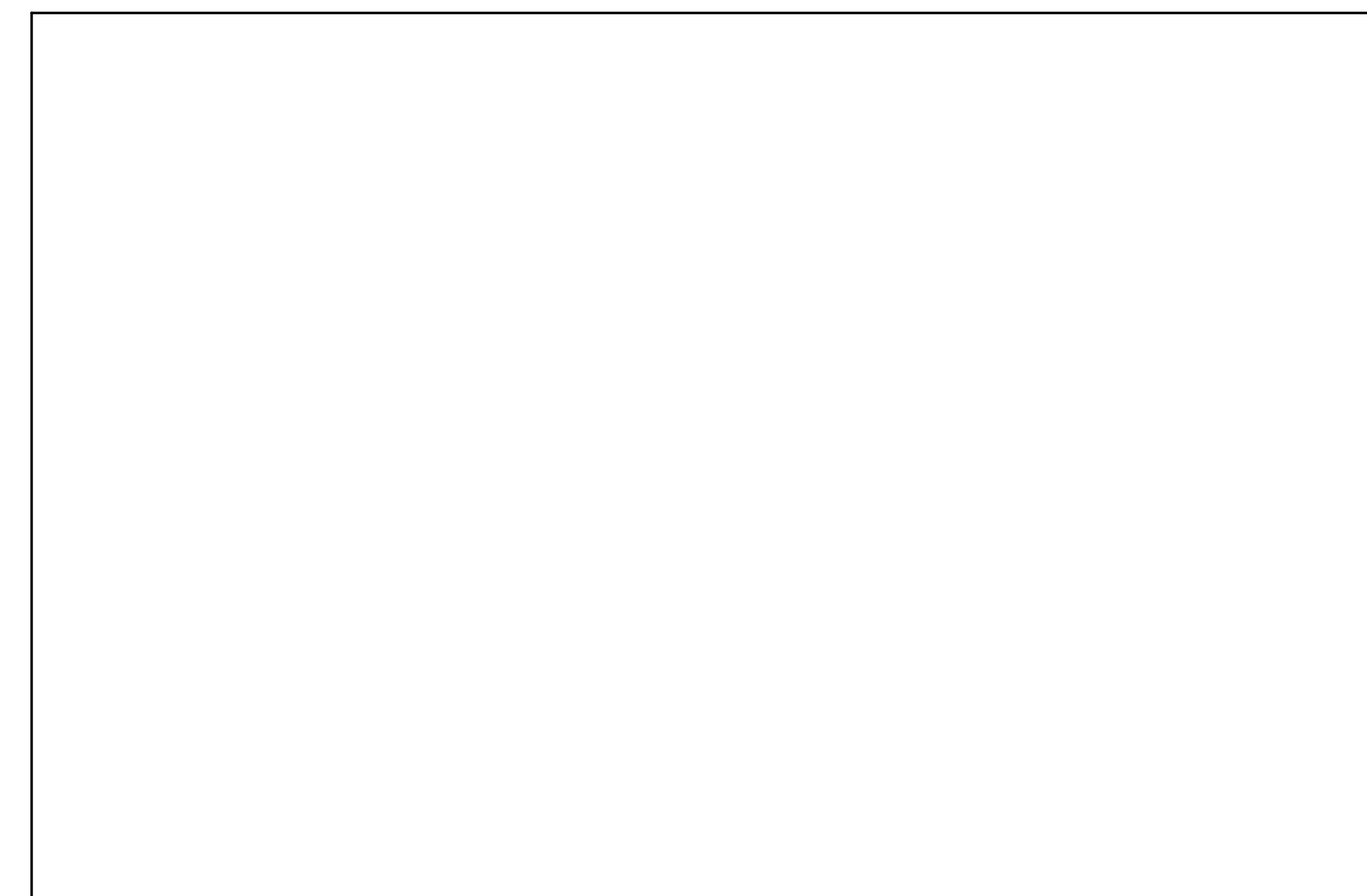
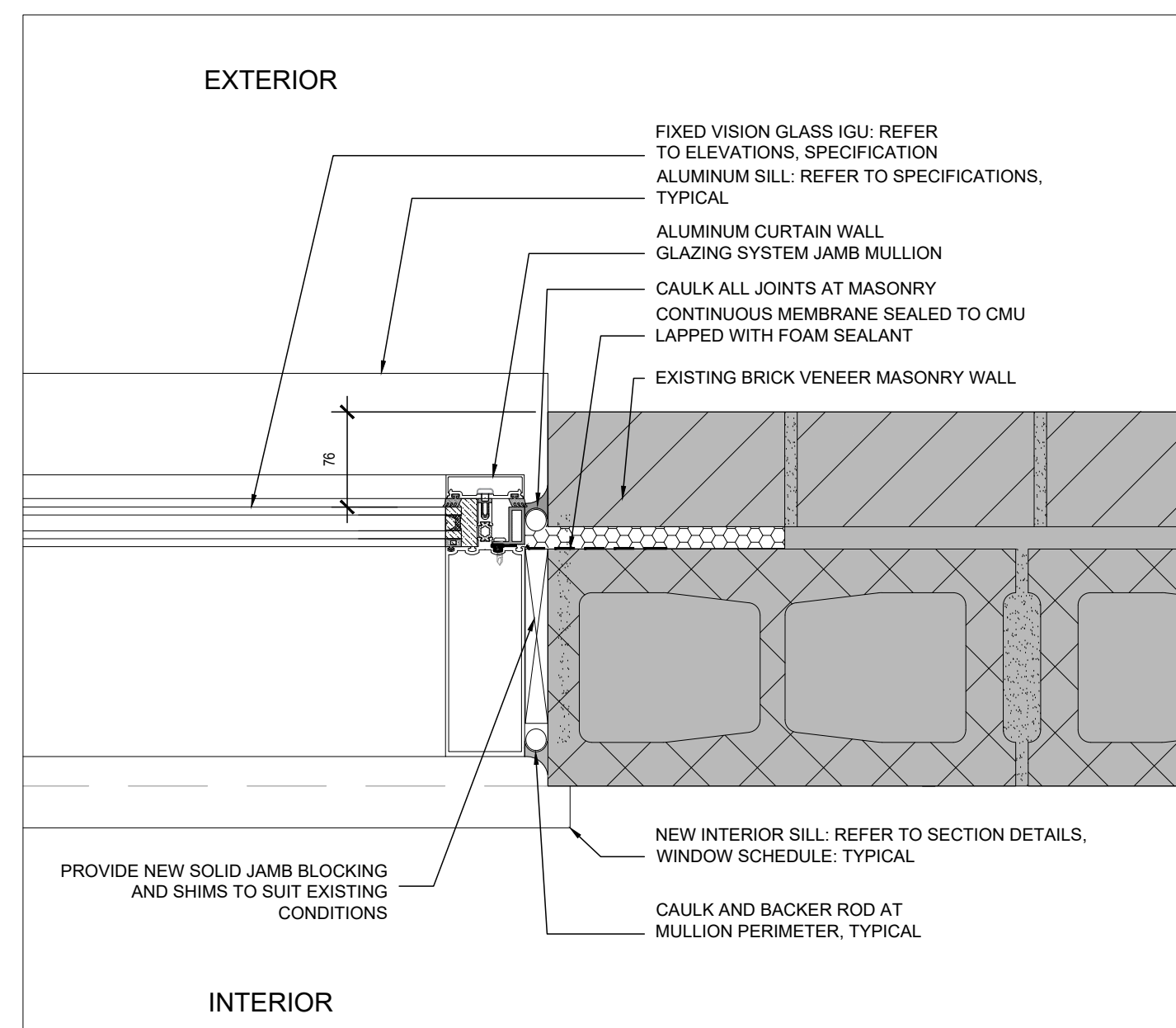
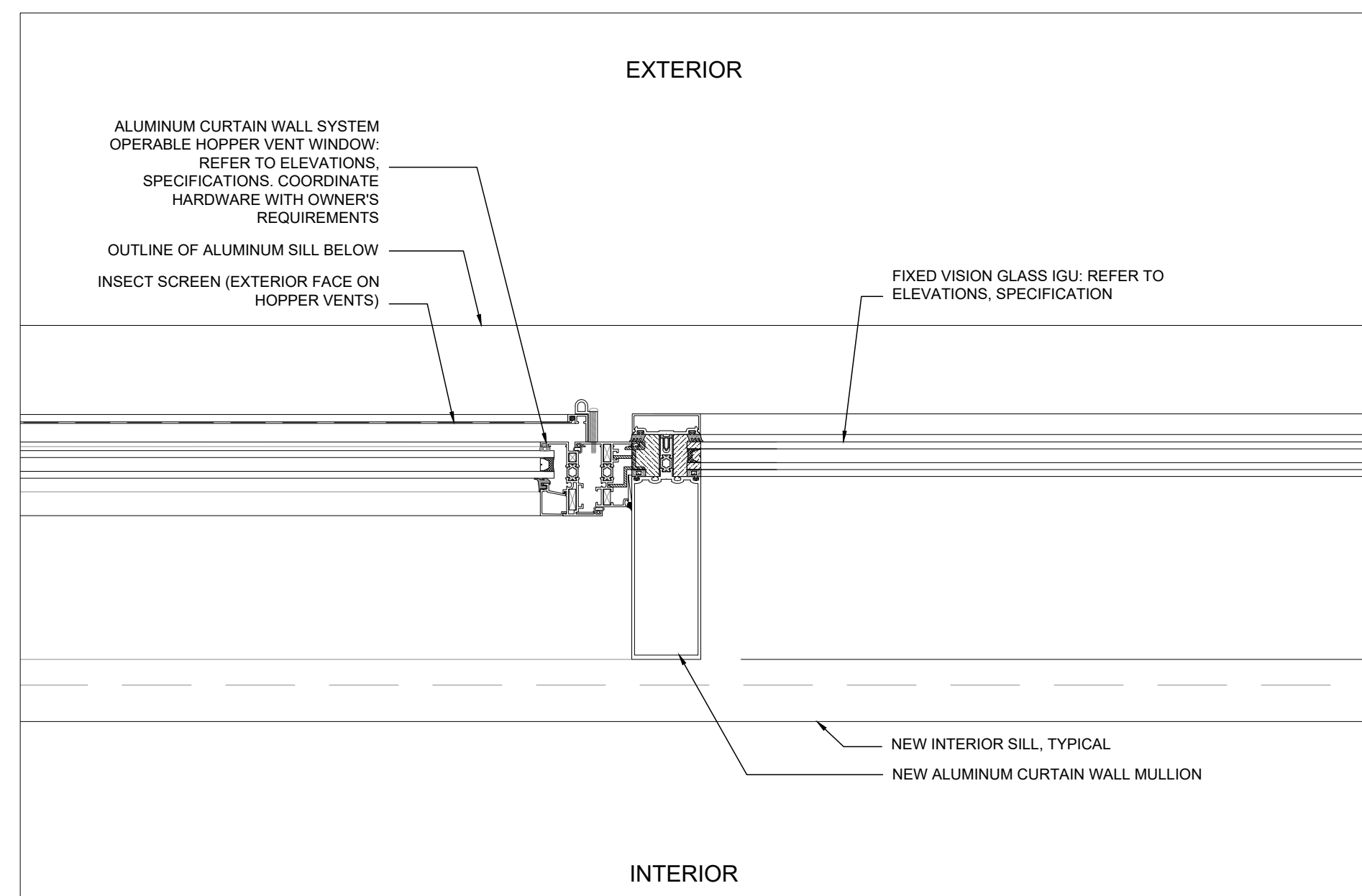
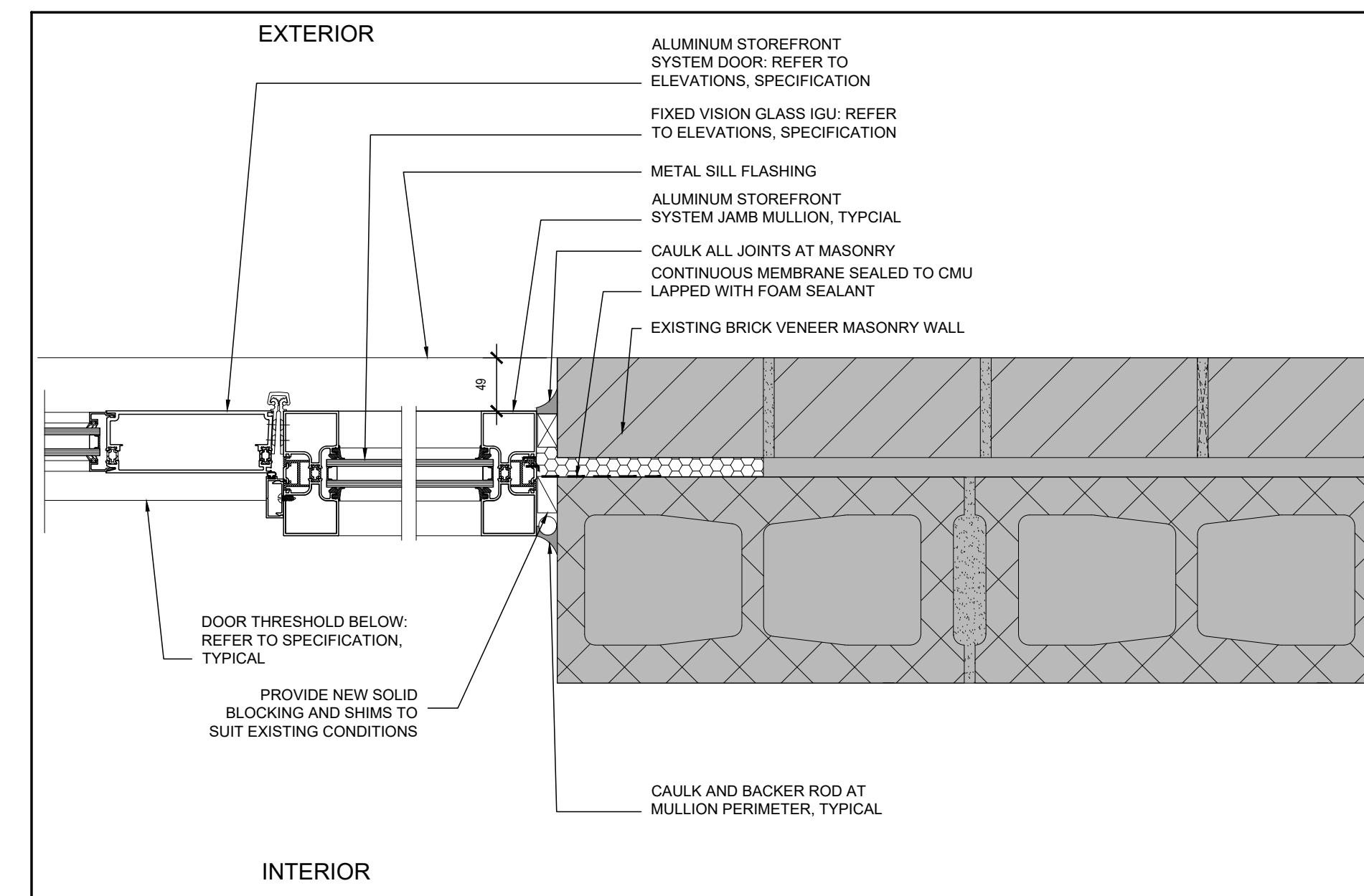
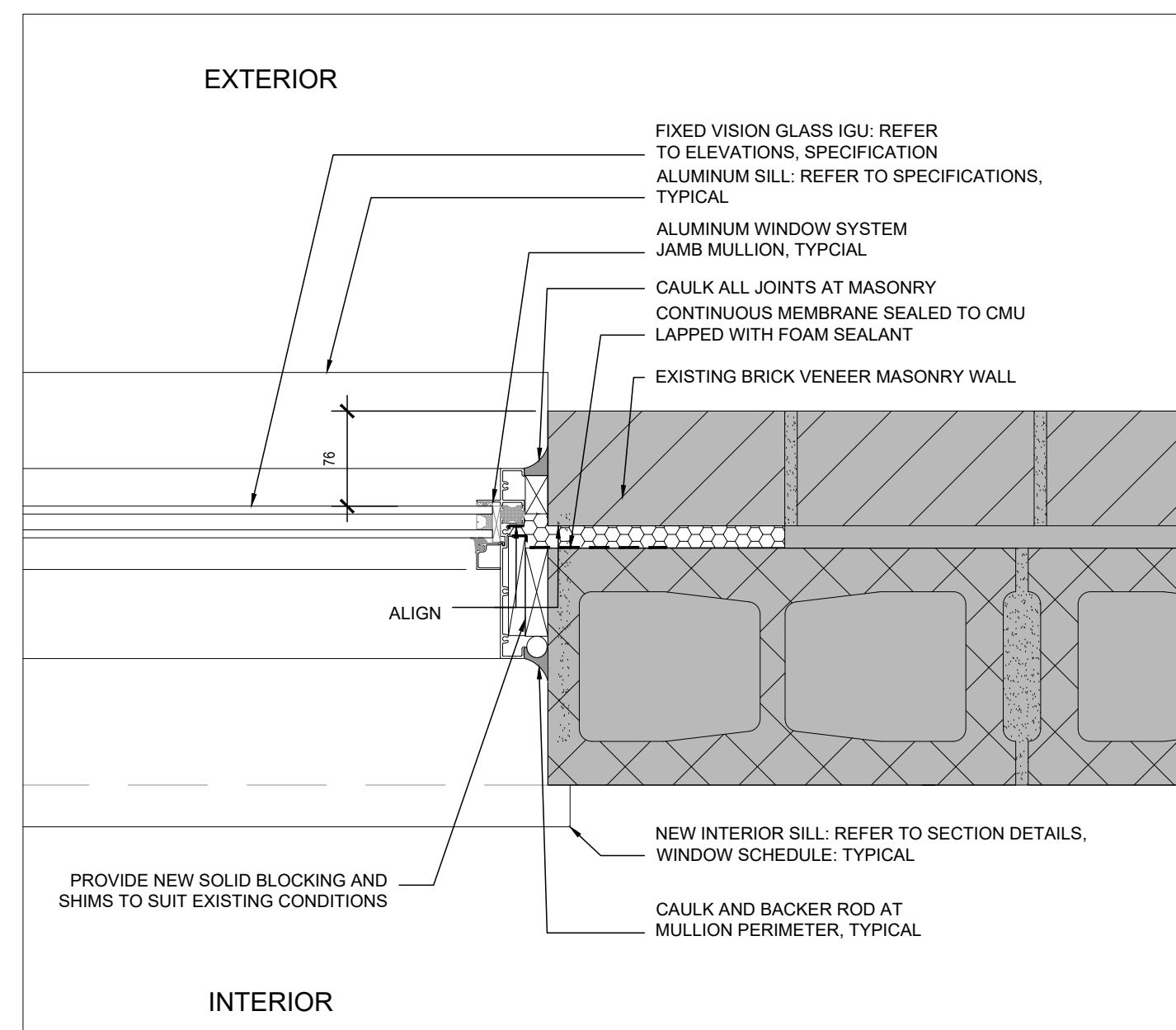
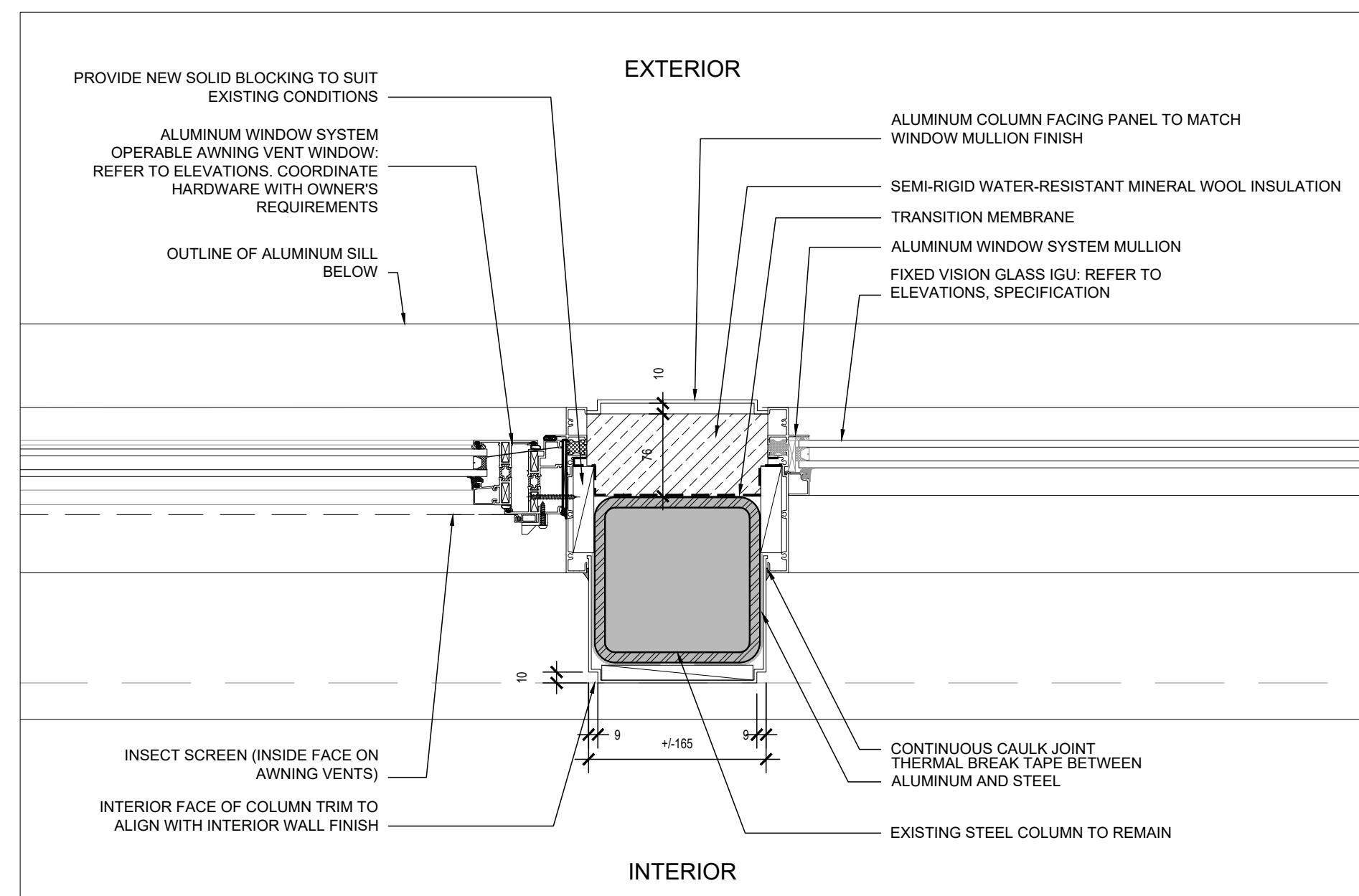
**DRAWING TITLE:**

# PARTIAL EXTERIOR ELEVATIONS - NEW FENESTRATION

PROJECT NO: 20931  
SCALE: AS NOTED  
DRAWN BY: JG  
REVIEWED BY: JC-B

DRAWING NO:

# A301

[illegible]

PROJECT:

Elmira District  
Secondary  
School – Window, Roof,  
HVAC & Sanitary  
Upgrades

DRAWING TITLE:

PLAN DETAILS

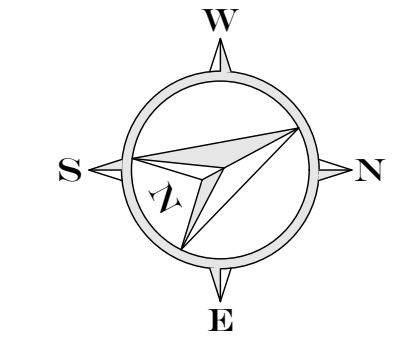
<b>PROJECT NO:</b>	<b>20931</b>
<b>SCALE:</b>	<b>AS NOTED</b>
<b>DRAWN BY:</b>	<b>JG</b>
<b>REVIEWED BY:</b>	<b>JC-B</b>

DRAWING NO:  
**A501**





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KEY PLAN

2	2021.03.16	TENDER
1	2021.03.09	95% REVIEW
NO.	DATE	REVISION

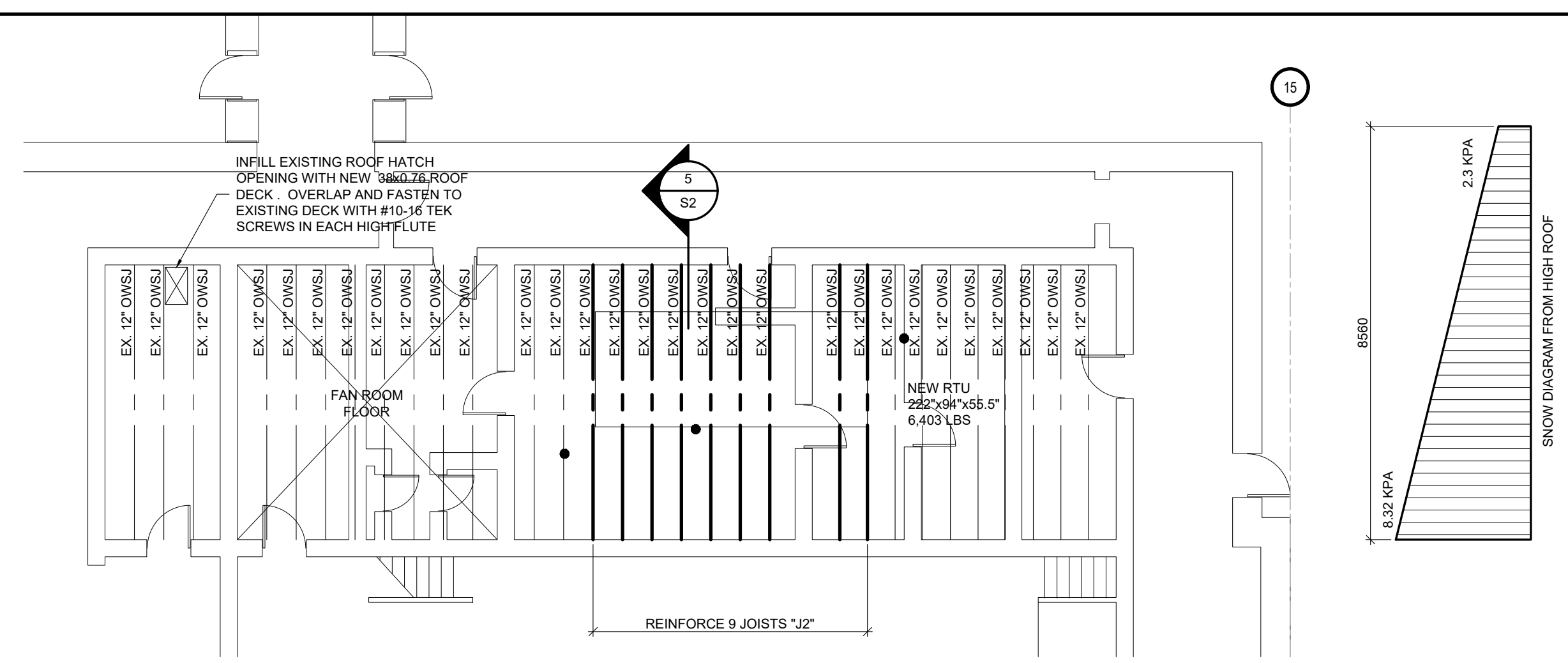
**WitzelDyce**  
ENGINEERING INC.  
826 King Street North, Unit 20  
Waterloo, Ontario, N2J 4G6  
www.witzeldyce.com



PROJECT  
**ELMIRA DISTRICT  
SECONDARY SCHOOL  
HVAC UPGRADES**  
4 UNIVERSITY AVE  
ELMIRA

DRAWING  
**PARTIAL ROOF  
FRAMING PLANS**

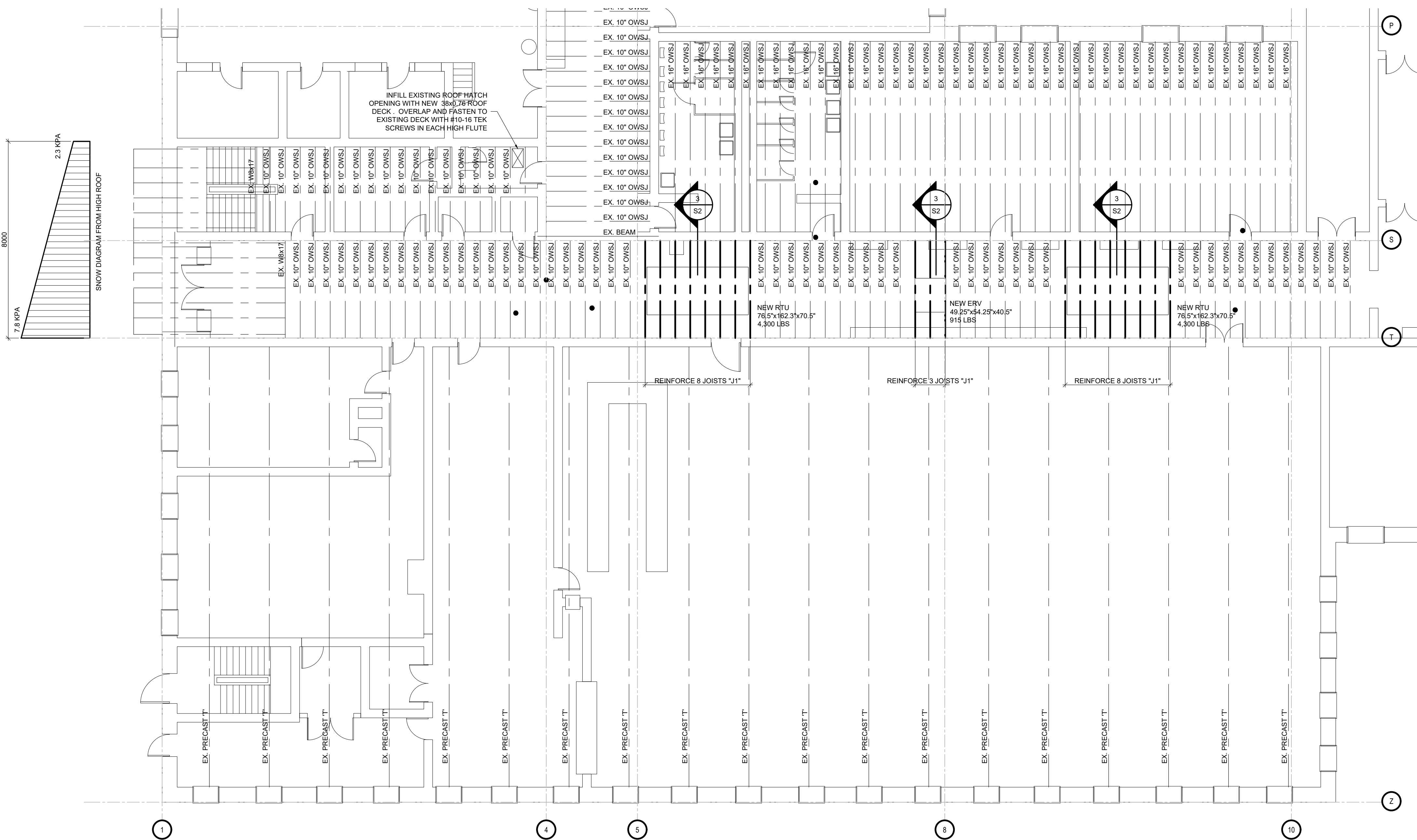
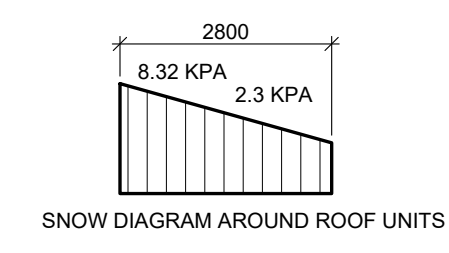
DESIGNER HHL	PROJECT NO. 12583-102
DRAWN BJD	DRAWING NO.
DATE MARCH 2021	<b>S1</b>
SCALE 1:100	



**PARTIAL HIGH ROOF FRAMING PLAN**

1:100

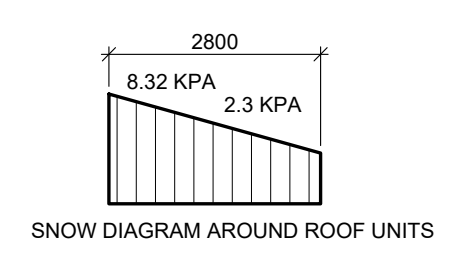
ROOF DESIGN LOADS  
L.L. = 2.3 KPA OR SNOW DIAGRAM  
D.L. = 1.0 KPA



**PARTIAL HIGH ROOF FRAMING PLAN**

1:100

ROOF DESIGN LOADS  
L.L. = 2.3 KPA OR SNOW DIAGRAM  
D.L. = 1.0 KPA







**STORM DRAINAGE NOTE:**  
STORM DRAINAGE MAY TEMPORARILY NEED TO BE CONTROLLED AND PUMPED FROM STORM SEWER SYSTEM. ANY SUCH TEMPORARY MEASURES SHALL BE CONDUCTED AT NO EXTRA COST TO THE CONTRACT AND BE BASED UPON THE OWNER'S CONTRACTOR'S WATER CONTROL PLANS, WHICH MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR/ENGINEER PRIOR TO CONSTRUCTION.

OWNER'S CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID MIXING TOPSOIL WITH SUBSOIL, WHERE REQUIRED FOR REUSE ON-SITE.

THE OWNER'S CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN COMPLIANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 FOR ALL WORKS WITHIN THE MUNICIPAL RIGHT-OF-WAY. THE OWNER'S OWNER'S CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE MUNICIPALITY/ENGINEER FOR REVIEW PRIOR TO PROCEEDING WITH CONSTRUCTION.

1. PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED AT COMPLETION OF PROJECT (FOLLOWING COMPLETION OF BASE ASPHALT AND SOD).
3. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.
4. ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED LOCATION.
5. MINIMIZE AREA DISTURBED DURING CONSTRUCTION.
6. ALL Dewatering TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN.
7. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE FABRIC (TERGRAX 270) OR SACKS, OR APPROVED EQUAL.
8. KEEP ALL SLEEPS CLEAN DURING CONSTRUCTION.
9. PREVENT WIND-BLOWN DUST.
10. ALL OF THE ABOVE NOTES AND ANY SEDIMENT & EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.
11. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE INSPECTED WEEKLY OR FOLLOWING SIGNIFICANT RAINFALL EVENTS.
12. ON-SITE SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE REVIEWED AND MODIFIED TO MEET THE CHANGING SITE CONDITIONS.
13. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REPAIRED WITHOUT DELAY BY THE OWNERS CONTRACTOR AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR/ENGINEER AT NO EXPENSE TO THE OWNER.
14. MUD MATS TO BE PROVIDED ON-SITE START AT CONSTRUCTION ENTRANCE LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MAT SHALL BE A MINIMUM OF 6.7m wide, 11.0m LONG AND MAY VARY DEPENDING ON SITE GEOMETRY AND 0.3m DEPTH AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT IT IS MAINTAINED IN A MANNER TO MAXIMIZE ITS EFFECTIVENESS AT ALL TIMES.

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

N.T.S.

PART OF  
PLAN 76  
LOT 32 TO LOT 40 PT LOT 31  
LOT 23 TO LOT 30 CLOSED KLINCK  
ST  
IN THE  
TOWN OF WOOLWICH  
REGION MUNICIPALITY OF  
WATERLOO

N.T.S.

REFERENCE: OPSD 219.110

**sbm** **STRIK  
BALDINELLI  
MONIZ**  
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Email: sbm@sbnltd.ca



## CLIENT

P: 416.203.7600  
E: jose@lga-ap.com

SCALE

SCALE - 1:200  
2.0 0 4.0m

TITLE
-------

4 UNIVERSITY AVENUE WEST  
ELMIRA, ON.

PROJECT No.

SHEET No.

C2

PLAN FILE No.

1. UNDER PRACTICAL CONDITIONS, WATERMANS SHALL CROSS ABOVE SEWERS WITH A VERTICAL SEPARATION OF NOT LESS THAN 0.5 METRES BETWEEN THE INVERT OF THE WATERMAN AND THE CROWN OF THE SEWER.
2. WHEN IT IS NOT POSSIBLE FOR THE WATERMAN TO CROSS ABOVE THE SEWER, THE WATERMAN SHALL CROSS UNDER THE SEWER WITH THE FOLLOWING CONDITIONS:
  - a. PROVIDING A VERTICAL SEPARATION OF AT LEAST 0.5 METRES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATERMAN;
  - b. PROVIDING A SUFFICIENT STRUCTURAL SUPPORT FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING; AND
  - c. ENSURING THAT THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING OF THE SEWER, SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

ALL CLEARANCES TO ELECTRICAL CONDUCTORS AS SET OUT IN THE CURRENT OBI  
DIV. B-3.1.19.1 'ELECTRICAL CONDUCTOR CLEARANCES TO BUILDINGS' SHALL BE  
MAINTAINED

FOR CLARITY, NOT ALL EXISTING UTILITIES MAY BE SHOWN. THE OWNER'S CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY LOCATES PRIOR TO CONSTRUCTION.

ALL SUMP PIT CONFIGURATIONS SHALL MEET, AT MINIMUM, OBC SECTION 7. ALL PUMPS ARE TO INCLUDE A CHECK VALVE.

OFF-SITE WORKS NOTE:  
PERMIT OF APPROVED WORKS FOR ALL EXTERNAL WORKS IS REQUIRED.

INVERTS OF THE EX SANITARY & STORM SEWERS @ CONNECTION POINTS SHALL BE CONFIRMED BY THE OWNER'S CONTRACTOR PRIOR TO THE START OF CONSTRUCTION/ORDERING STRUCTURES. THE CONSULTANT IS TO BE INFORMED IF DIFFERENT THAN NOTED.

ALL WORK IN THE ROAD ALLOWANCE SHALL MEET THE MINIMUM SPECIFICATIONS OF THE REGION OF WATERLOO ENVIRONMENTAL AND ENGINEERING SERVICES DEPARTMENT. THE GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS, STANDARD SPECIFICATIONS, STANDARD SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR UNIT PRICE CONTRACTS AND THE REGION OF WATERLOO AND AREA MUNICIPALITIES DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS ARE TO BE APPLIED TO WORKS WITHIN THE MUNICIPAL ROAD ALLOWANCE UNLESS OTHERWISE APPROVED BY THE MUNICIPALITY.

SERVICE STUBS TO BE CAPPED AT 1.0m O/S FROM BUILDING ENVELOPE FOR CONNECTION ONCE BUILDING SERVICES ARE INSTALLED.

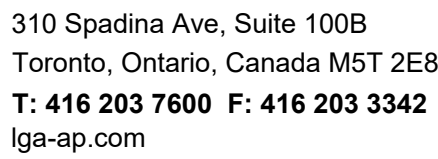
**STORM DRAINAGE NOTE:**  
STORM DRAINAGE MAY TEMPORARILY NEED TO BE CONTROLLED AND PUMPED FROM STORM SEWER SYSTEM. ANY SUCH TEMPORARY MEASURES SHALL BE CONDUCTED AT NO EXTRA COST TO THE CONTRACT AND BE BASED UPON THE OWNER'S CONTRACTORS WATER CONTROL PLANS, WHICH MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR/ENGINEER PRIOR TO CONSTRUCTION.

IT IS RECOMMENDED THAT SUMP DRAINAGE BE DIRECTED TO THE BUILDING STORM DRAIN VIA EJECTOR PUMP w/ ELEVATED DISCHARGE LOOP.

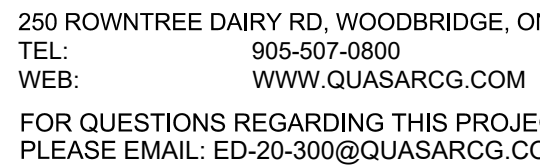
PRIOR TO ANY CONSTRUCTION, ALL GRADES AND ELEVATIONS MUST BE CHECKED AND VERIFIED AND ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEERS.

THE ASSUMED UNDERSIDE OF FOOTING ELEVATIONS ARE BASED OFF 1.22m (4') COVER FROM THE LOWEST SURFACE ELEVATION AT THE BUILDING PERIMETER.

2020 Jobs\SBM-20-4137 LGA Architects WRDSB Elmira Secondary School, Elmira\03 Dwg\03 Production Drawings\SBM-20-4137 LGA Architects WRDSB Elmira Secondary School, Elmira - Engineering Pro.dwg




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VENTILATION	
SYMBOL	DESCRIPTION
	FUSIBLE LINK FIRE DAMPER (DOUBLE LINE)
	FUSIBLE LINK FIRE DAMPER (SINGLE LINE)
	BACK DRAFT DAMPER (DOUBLE LINE)
	BACK DRAFT DAMPER (SINGLE LINE)
	BALANCING DAMPER (DOUBLE LINE)
	BALANCING DAMPER (SINGLE LINE)
	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
	ROUND DUCTWORK - DIMENSION AS SHOWN
	DUCTWORK (SINGLE LINE) - DIMENSION AS SHOWN
	SUPPLY RISER UP
	EXHAUST/RETURN RISER UP
	SUPPLY RISER DOWN
	EXHAUST/RETURN RISER DOWN
	MITRED ELBOW WITH AIR TURNING VANES
	DUCT RISE (DOUBLE LINE)
	DUCT RISE (SINGLE LINE)
	MOTORIZED DAMPER
	SUPPLY GRILLE
	EXHAUST/RETURN GRILLE
	CEILING SUPPLY AIR DIFFUSER
	CEILING EXHAUST/RETURN GRILLE
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE)
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH: DIRECTION AS SHOWN (DOUBLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH: DIRECTION AS SHOWN (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION
	DIFFUSER TAG
	GRILLE TAG
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	SILENCER (ATTENUATOR)
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	RECTANGULAR DUCT BREAK
	ROUND DUCT BREAK
	SINGLE LINE DUCT BREAK

SYMBOL	DESCRIPTION
	SUPPLY FAN
	RETURN EXHAUST FAN
	EXHAUST FAN
	HEATING COIL
	COOLING COIL
	PRE-HEAT COIL
	FILTERS
	HUMIDIFIER
	THERMOMETER
	SUPPLY AIR
	EXHAUST AIR
	OUTDOOR AIR
	RETURN AIR
	MOTORIZED DAMPER
	VARIABLE FREQUENCY DRIVE
	NORMALLY OPEN
	NORMALLY CLOSED
	ELECTRO-PNEUMATIC SWITCH
	PRESSURE ELECTRIC SWITCH
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	BUILDING AUTOMATED SYSTEM
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	DIGITAL OUTPUT
	OCCUPANCY SENSOR

Drawing List	
Sheet Number	Sheet Title
M-001	MECHANICAL LEGEND AND DRAWING LIST
M-002	MECHANICAL KEYPLANS
M-100	BOILER ROOM - DEMOLITION & NEW WORK PLAN
M-101	HVAC DUCTWORK - CAFETERIA - DEMO AND NEW WORK PLAN
M-102	HVAC - CAFETERIA ROOF - DEMO AND NEW WORK PLAN
M-103	HVAC PIPING - CAFETERIA - DEMO AND NEW WORK PLAN
M-104	HVAC PIPING - CAFETERIA CORRIDOR - DEMO AND NEW WORK PLAN
M-105	HVAC PIPING - GYM - DEMO AND NEW WORK PLAN
M-110	GYM DRAINAGE - DEMOLITION & NEW WORK PLAN
M-111	GYM MECHANICAL ROOM & ROOF - DEMOLITION & NEW WORK PLAN
M-112	GYM HVAC - NEW WORK PLAN
M-120	HIGH ROOF - DEMOLITION & NEW WORK PLAN
M-300	MECHANICAL DETAILS 1
M-301	MECHANICAL DETAILS 2
M-302	MECHANICAL DETAILS 3
M-400	MECHANICAL SCHEDULES

<p><b>PROJECT:</b></p> <p style="font-size: 24px; margin: 0;">ELMIRA DISTRICT SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON N3B 1K2</p>	
<p><b>DRAWING TITLE:</b></p> <p style="font-size: 24px; margin: 0;">MECHANICAL LEGEND AND DRAWING LIST</p>	
<p><b>PROJECT NO:</b> ED-20-300</p> <p><b>SCALE:</b> AS SHOWN</p> <p><b>DRAWN BY:</b> RH</p> <p><b>REVIEWED BY:</b> MH</p>	<p><b>PROJECT NORTH</b></p> <div style="text-align: center; margin-top: 20px;">  </div>

DRAWING NO:  
M-001

**ISSUE DATE:**

[illegible]

3	16-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
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**PROJECT:**

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

**DRAWING TITLE:**

## MECHANICAL KEYPLANS

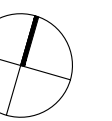
PROJECT NO: ED-20-300

**SCALE:** AS SHOWN

DRAWN BY: RH

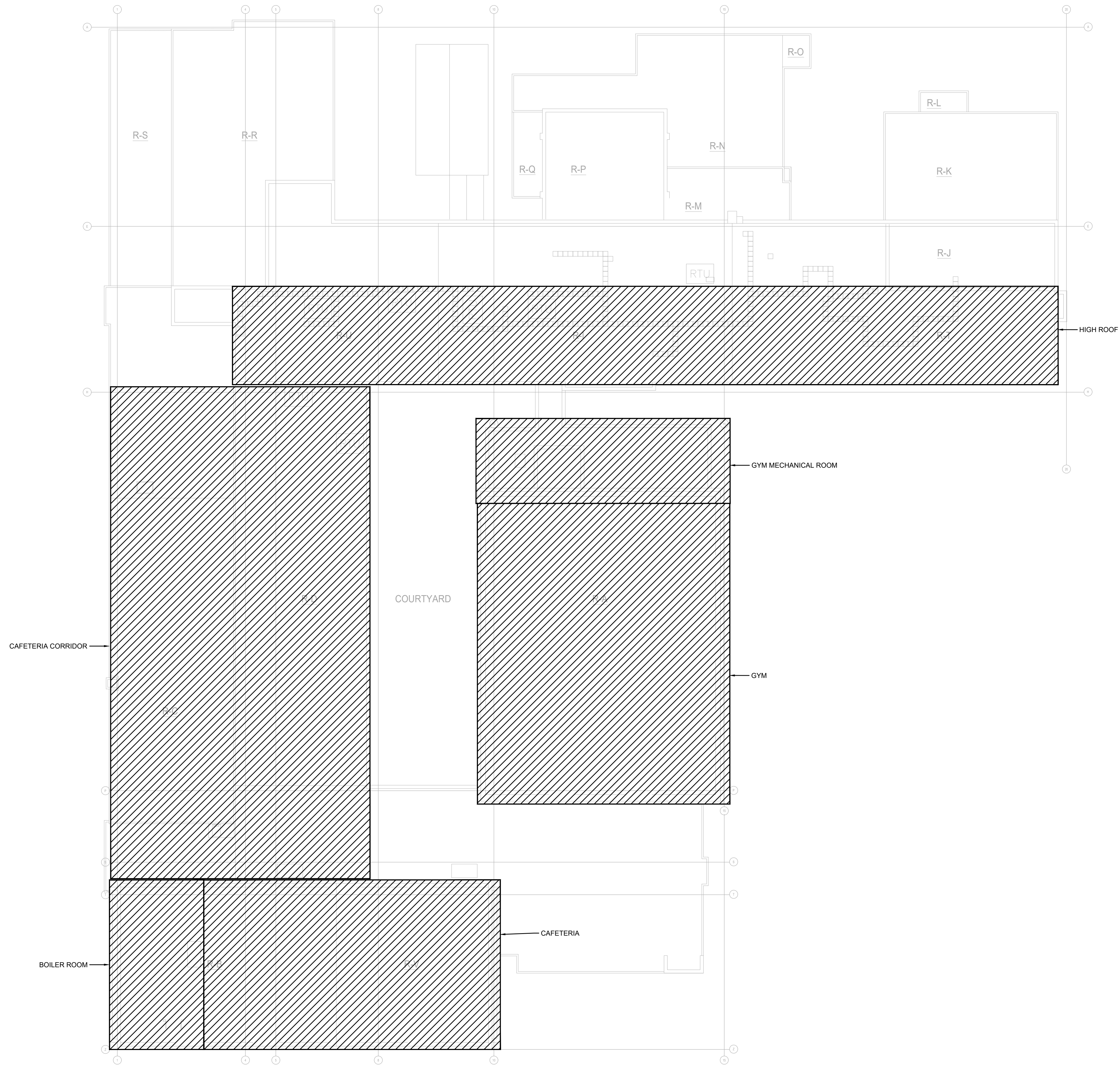
REVIEWED BY: MH

### PROJECT NORTH:

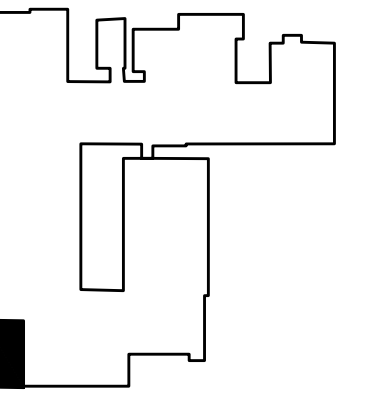


DRAWING NO:

M-002



## KEYPLAN



**ISSUE DATE:**

[illegible]

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2	08-MAR-21	ISSUED FOR 95% TENDER REVIEW
1	18-FEB-21	ISSUED FOR 80% CD

NO.	DATE	DESCRIPTION
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**PROJECT:**

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

**DRAWING TITLE:**

BOILER ROOM - DEMOLITION &  
NEW WORK PLAN

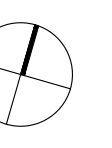
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DRAWN BY: RH

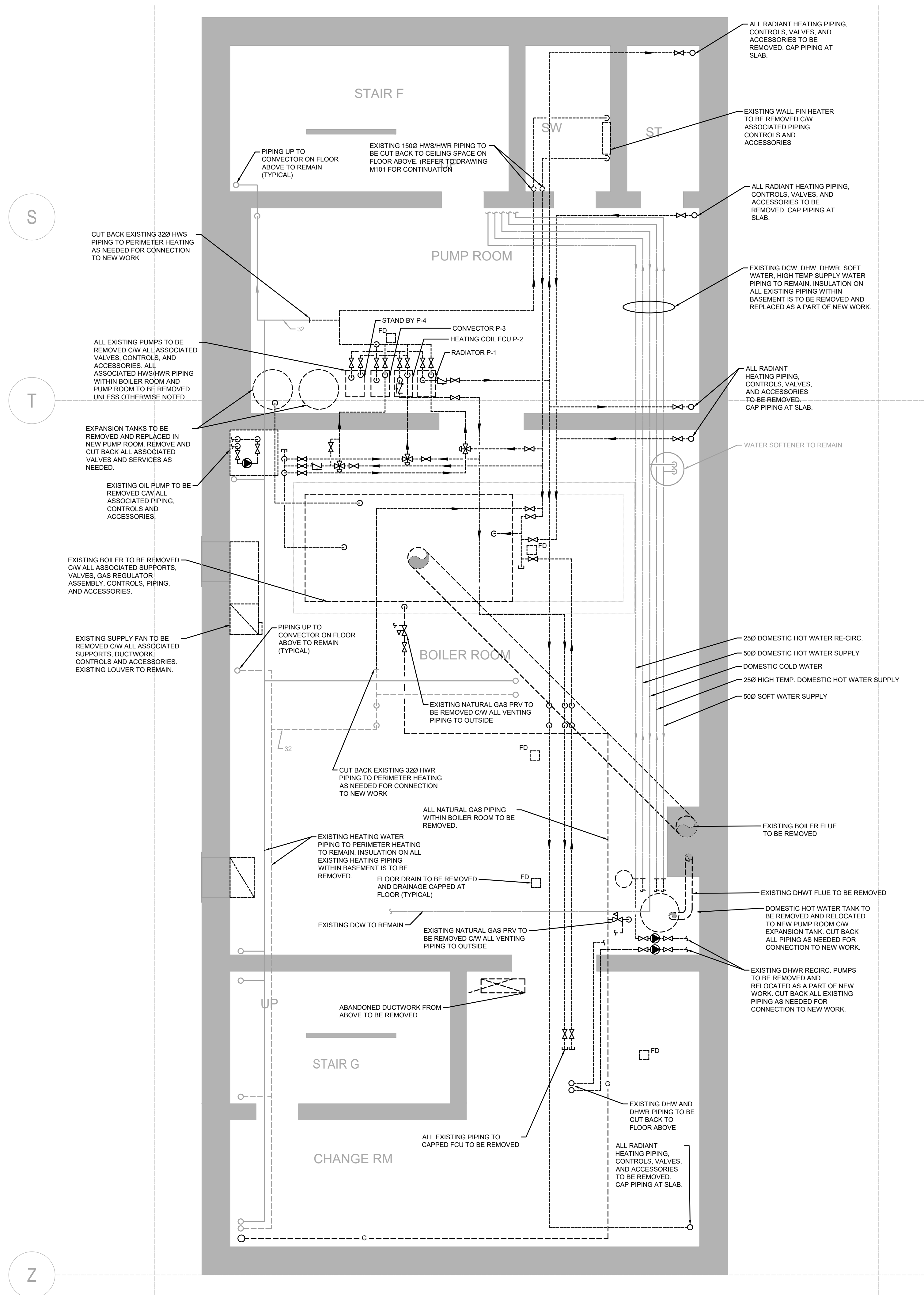
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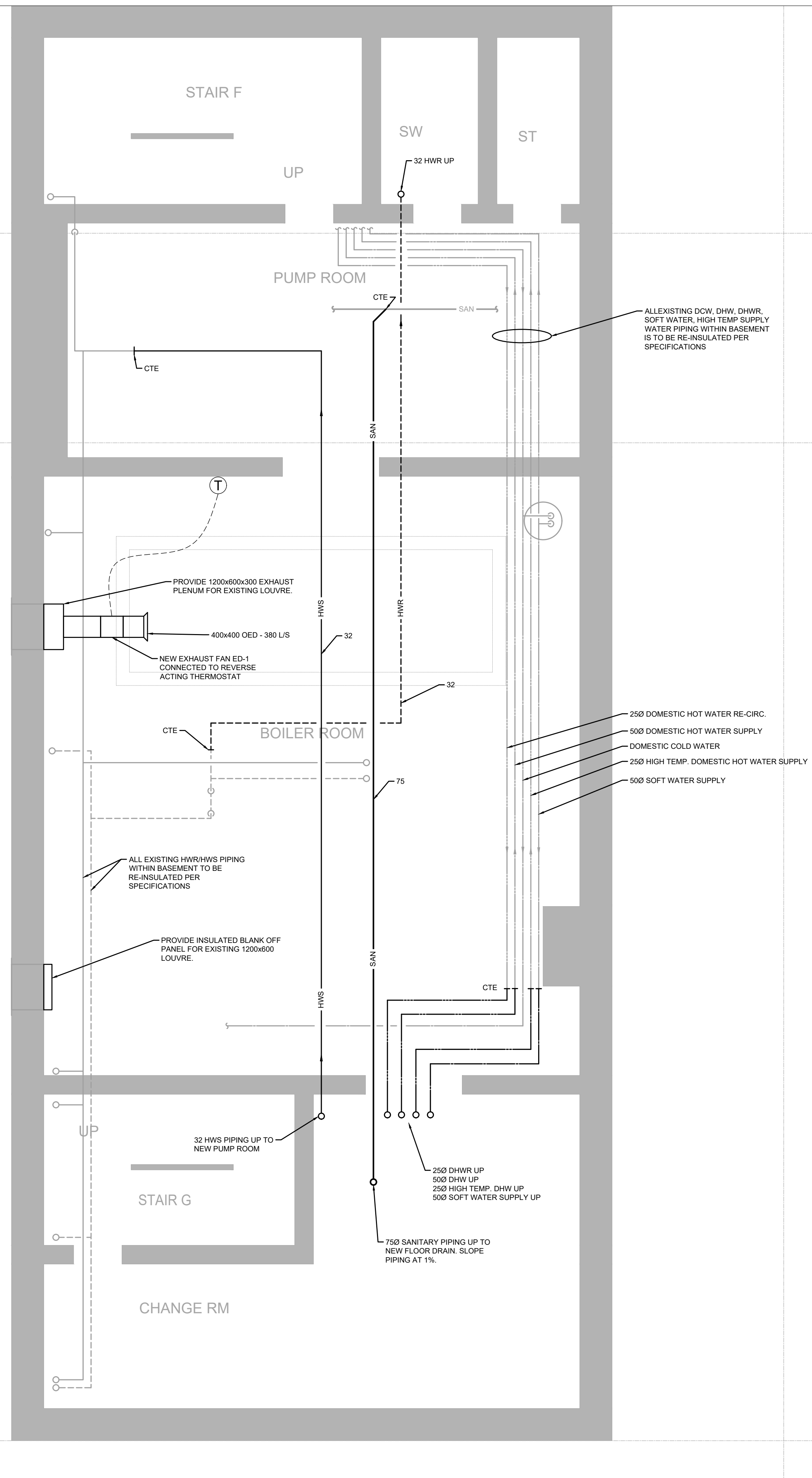


DRAWING NO:

# M-100



# HVAC - BOILER ROOM DEMOLITION PLAN



2 HVAC - BOILER ROOM NEW WORK PLAN  
SCALE: 1:50

DRAWING NO:  
M-101



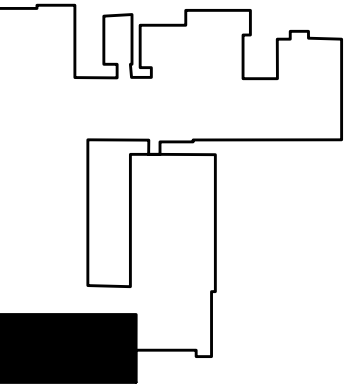
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## KEYPLAN



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1	18-FEB-21	ISSUED FOR 80% CD

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**PROJECT:**

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

**DRAWING TITLE:**

## HVAC - CAFETERIA ROOF - DEMO AND NEW WORK PLAN

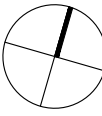
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**SCALE:** AS SHOWN

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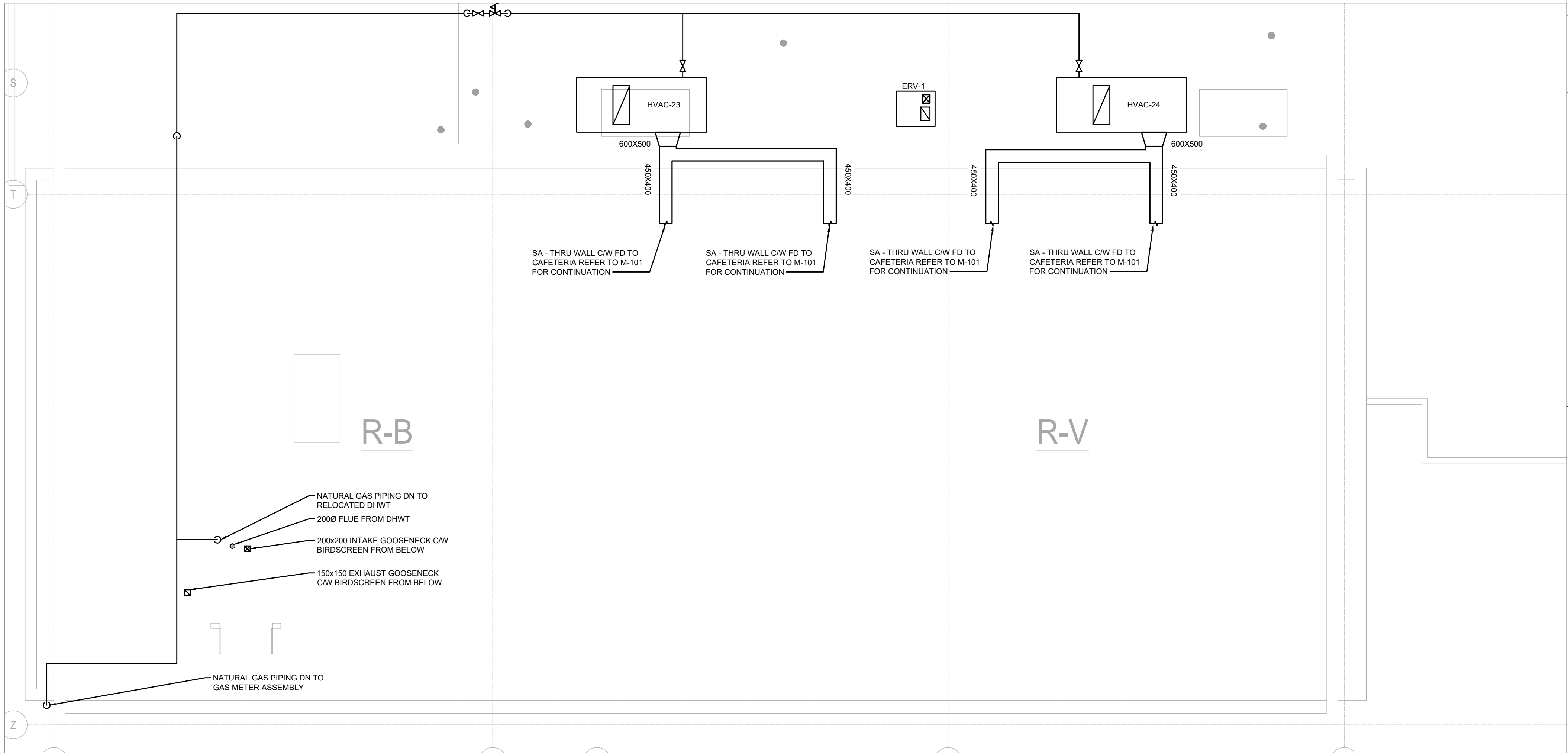
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## PROJECT NORTH



**DRAWING NO:**

M-102

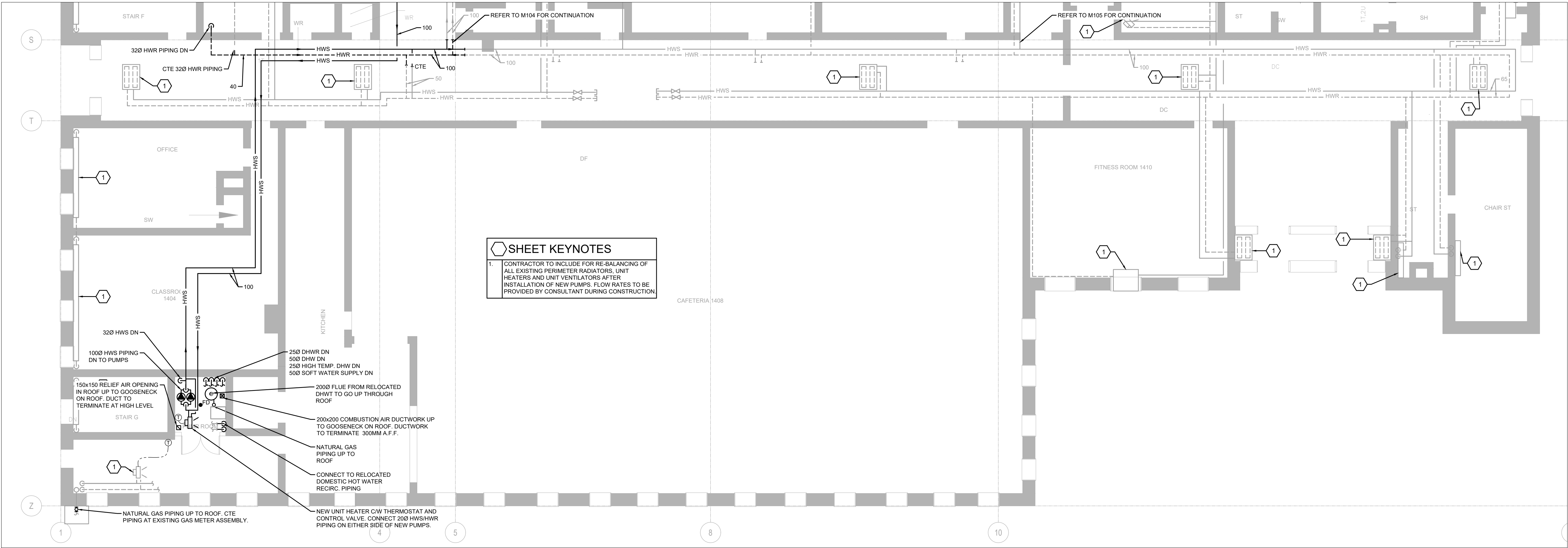


2 HVAC - ROOF CAFETERIA NEW WORK PLAN  
SCALE: 1:100

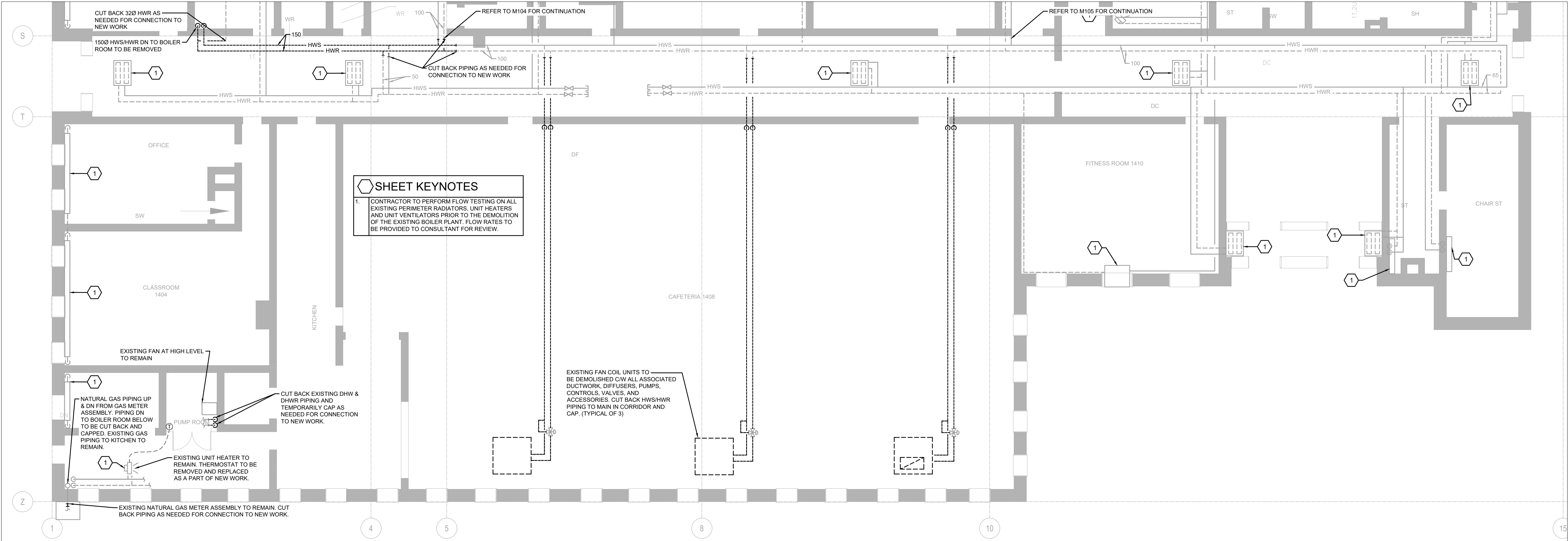
1 HVAC - ROOF CAFETERIA DEMOLITION PLAN  
SCALE: 1:100

DRAWING NO:

M-103



2 HVAC PIPING - CORRIDOR NEW WORK PLAN  
SCALE: 1:100



1 HVAC PIPING - CORRIDOR DEMOLITION PLAN  
SCALE: 1:100

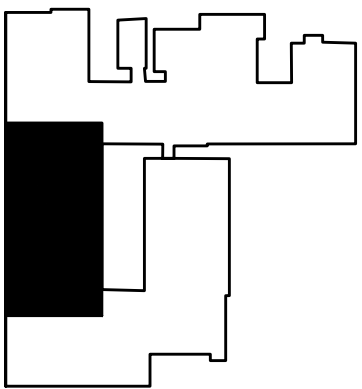
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## KEYPLAN



**ISSUE DATE:**

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3	16-MAR-21	ISSUED FOR TENDER
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1	18-FEB-21	ISSUED FOR 80% CD

NO.	DATE	DESCRIPTION
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**PROJECT:**

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

**DRAWING TITLE:**

## HVAC PIPING - CAFETERIA CORRIDOR - DEMO AND NEW WORK PLAN

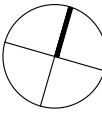
PROJECT NO: ED-20-300

**SCALE:** AS SHOWN

DRAWN BY: RH

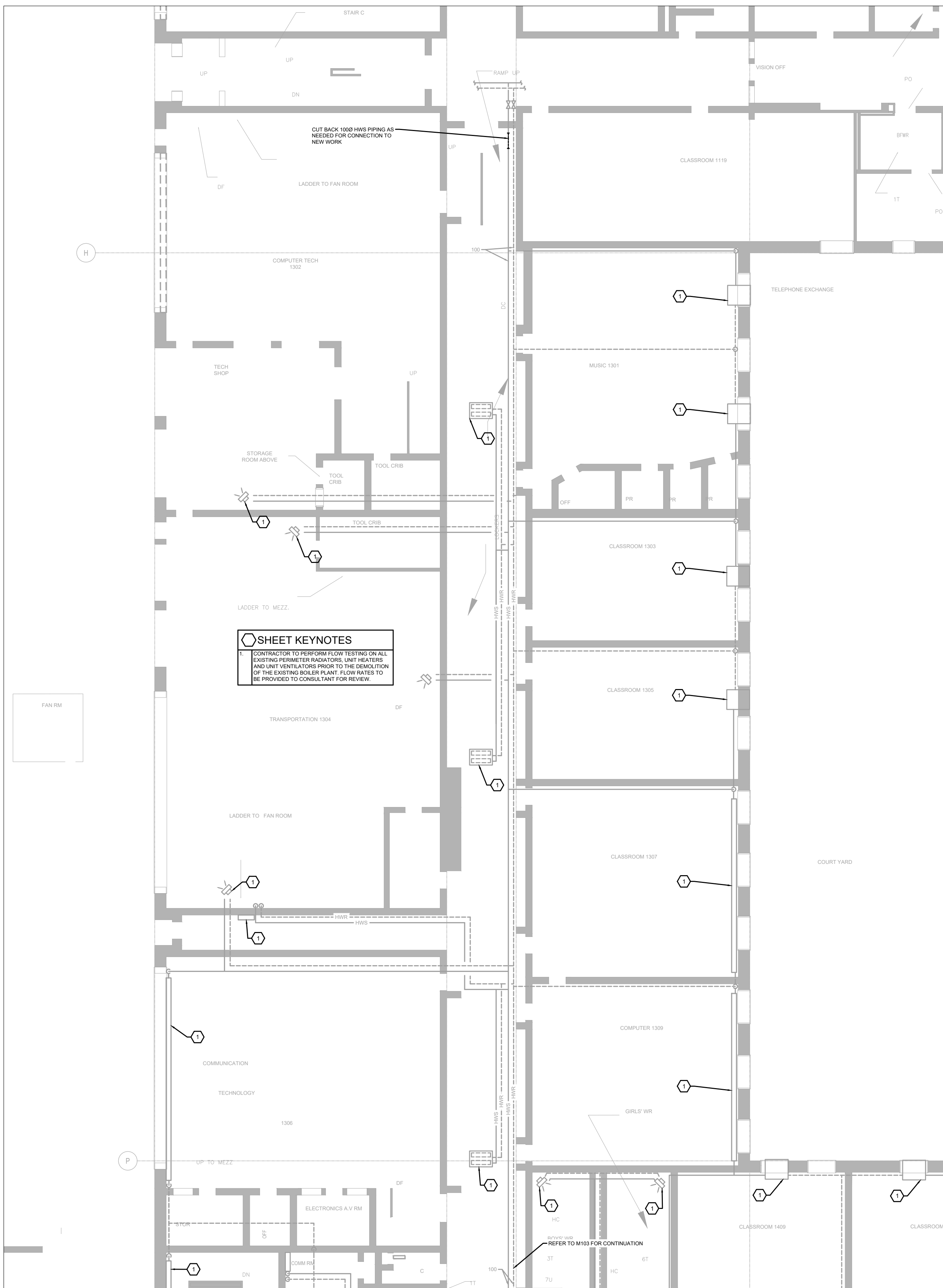
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## PROJECT NORTH

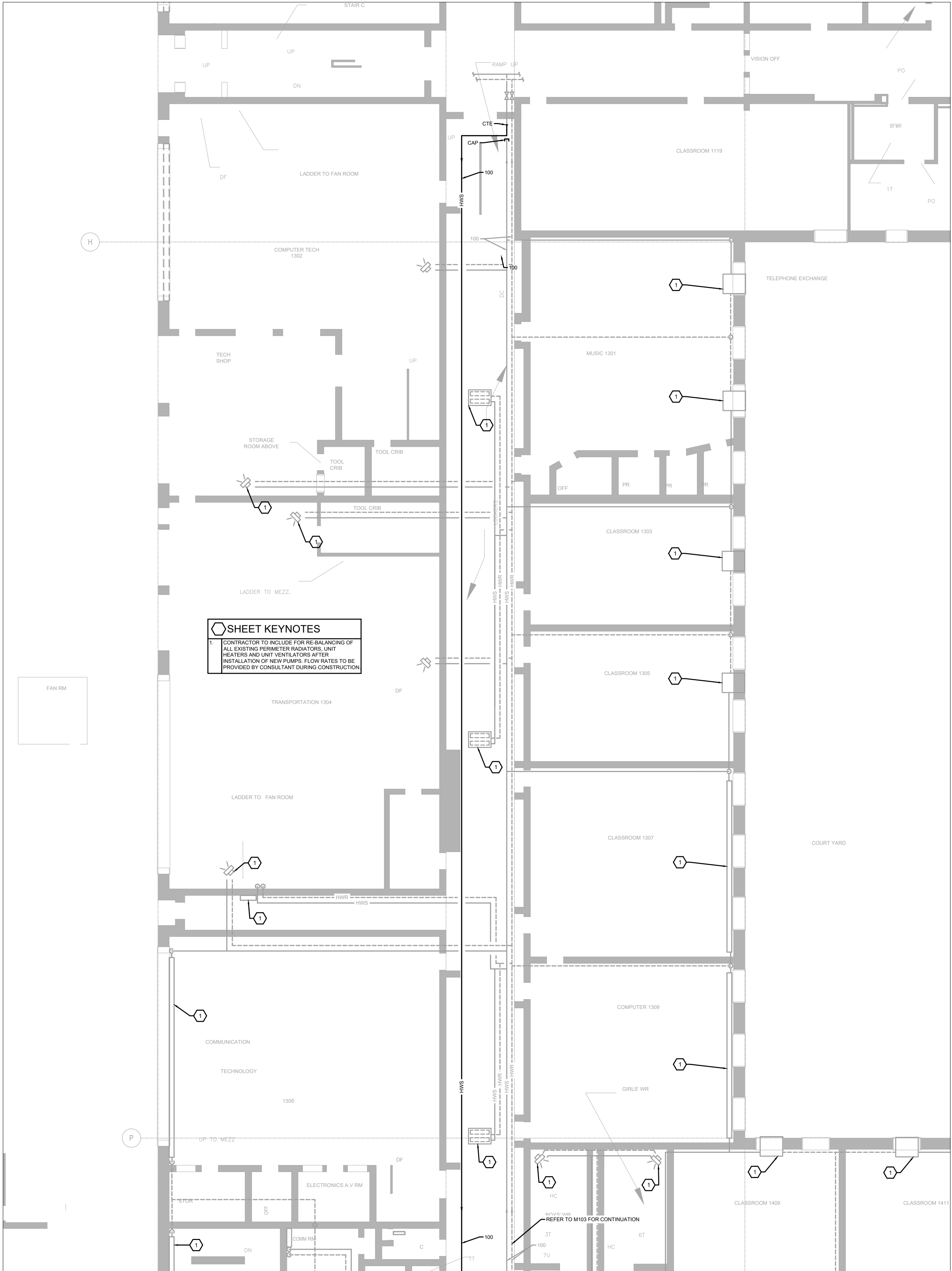


**DRAWING NO:**

M-104



1 HVAC PIPING - CORRIDOR DEMOLITION PLAN  
SCALE: 1:100



2 HVAC PIPING - CORRIDOR NEW WORK PLAN  
SCALE: 1:100

SHEET KEYNOTES	
1.	CONTRACTOR TO INCLUDE FOR RE-BALANCING OF ALL EXISTING PERIMETER RADIATORS, UNIT HEATERS AND UNIT VENTILATORS AFTER INSTALLATION OF NEW PUMPS. FLOW RATES TO BE PROVIDED BY CONSULTANT DURING CONSTRUCTION

PO

ST

C

TR

ST,3U

10

15

DN

8"Ø

CAP

CAP

6"Ø

6"Ø

CONNECT NEW 750 STORM PIPING FROM ABOVE TO EXISTING STORM DRAINAGE. PROVIDE CLEANOUTS AS REQUIRED. SLOPE PIPING AT 2%.

PEO

VTR

1"

DF

WR

SH

ST

3"Ø

6"Ø

SAN

4"Ø

CAP

UP TO FAN ROOM

DN

6"Ø

6"Ø

STAGE

LADDER TO MEZZ.

8"Ø

STM

10"Ø

10"Ø

6"Ø

GYMNASIUM G2

6"Ø

4"Ø

SAN

RETRACTABLE BLEACHERS

GYMNASIUM G1

BOYS' CHANGE

P

15

CLASSROOM 1411

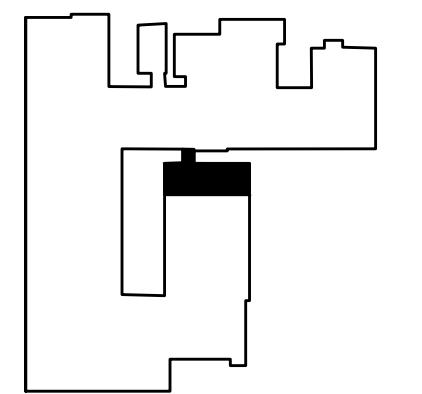
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## KEYPLAN



ISSUE DATE:

PROJECT:

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

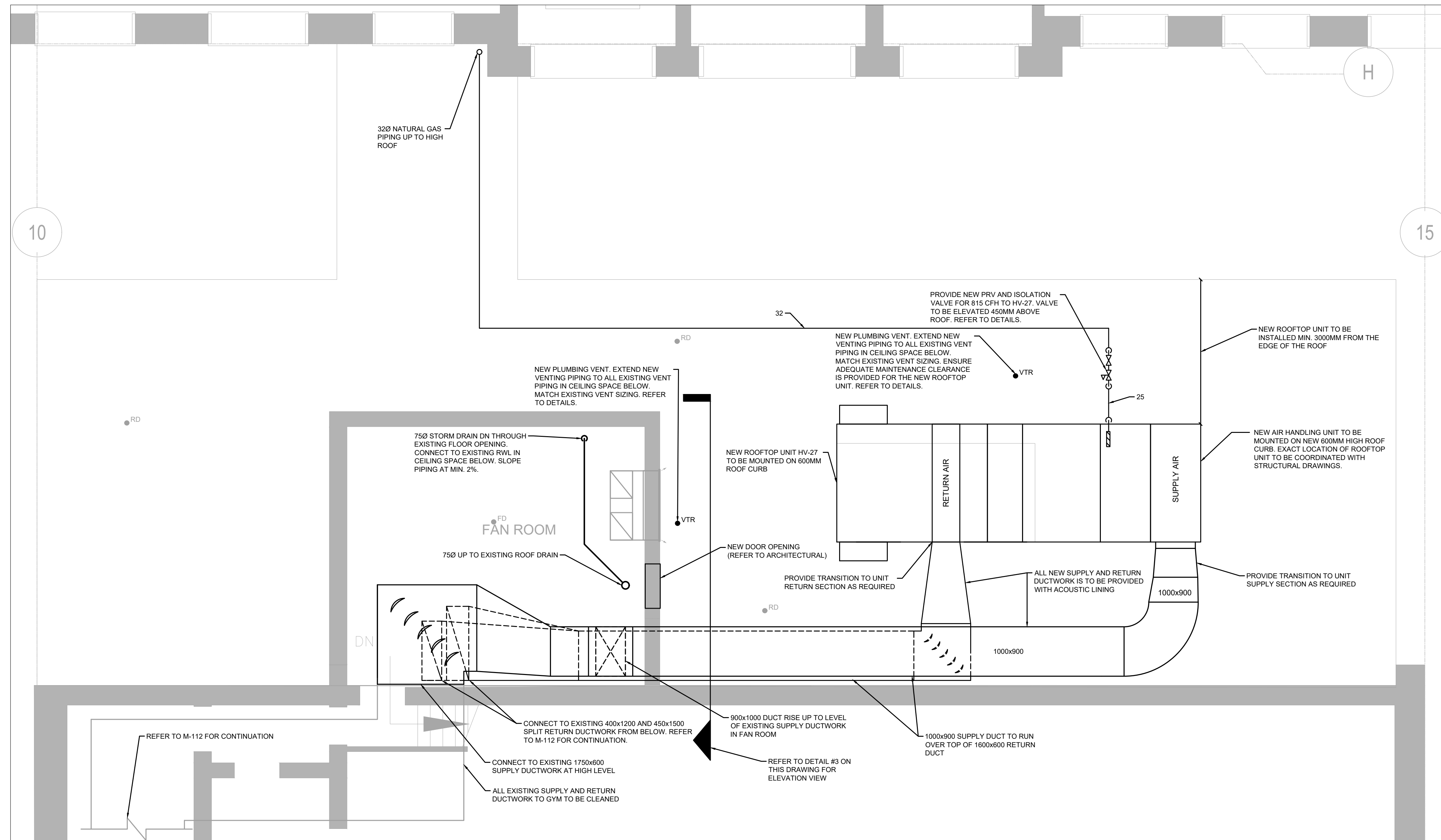
DRAWING TITLE:

## GYM MECHANICAL ROOM & ROOF - DEMOLITION & NEW WORK PLAN

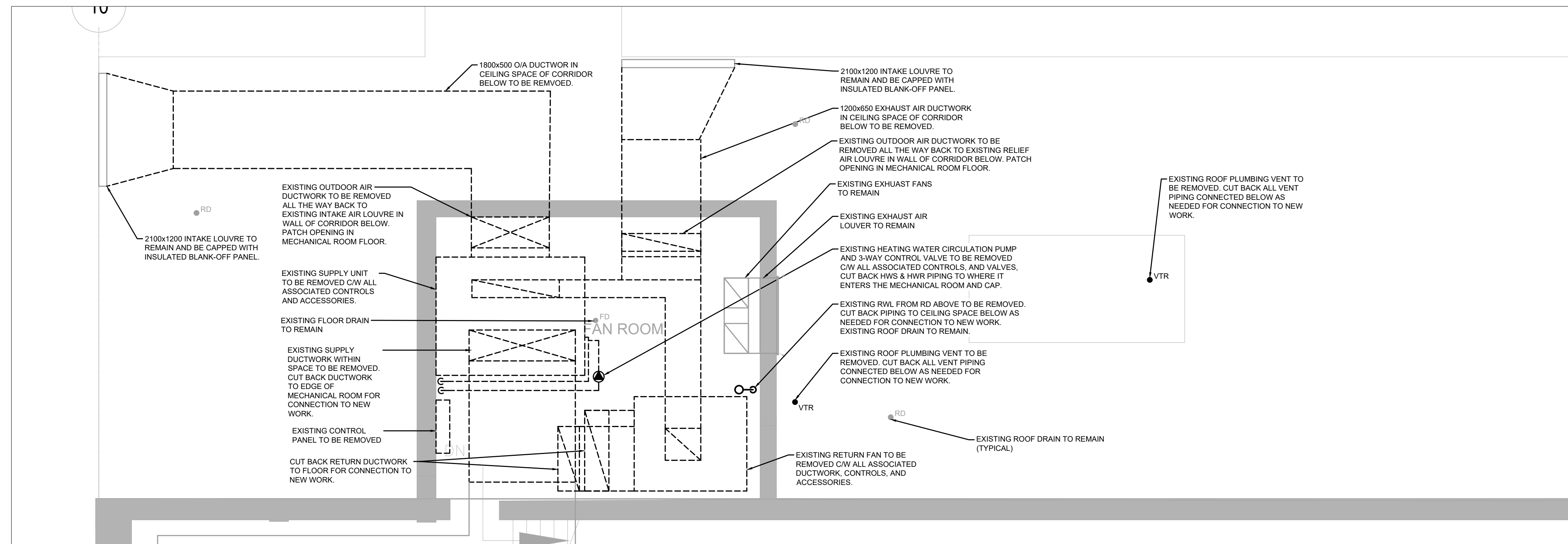
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SCALE: AS SHOWN  
DRAWN BY: RH  
REVIEWED BY: MH

DRAWING NO:

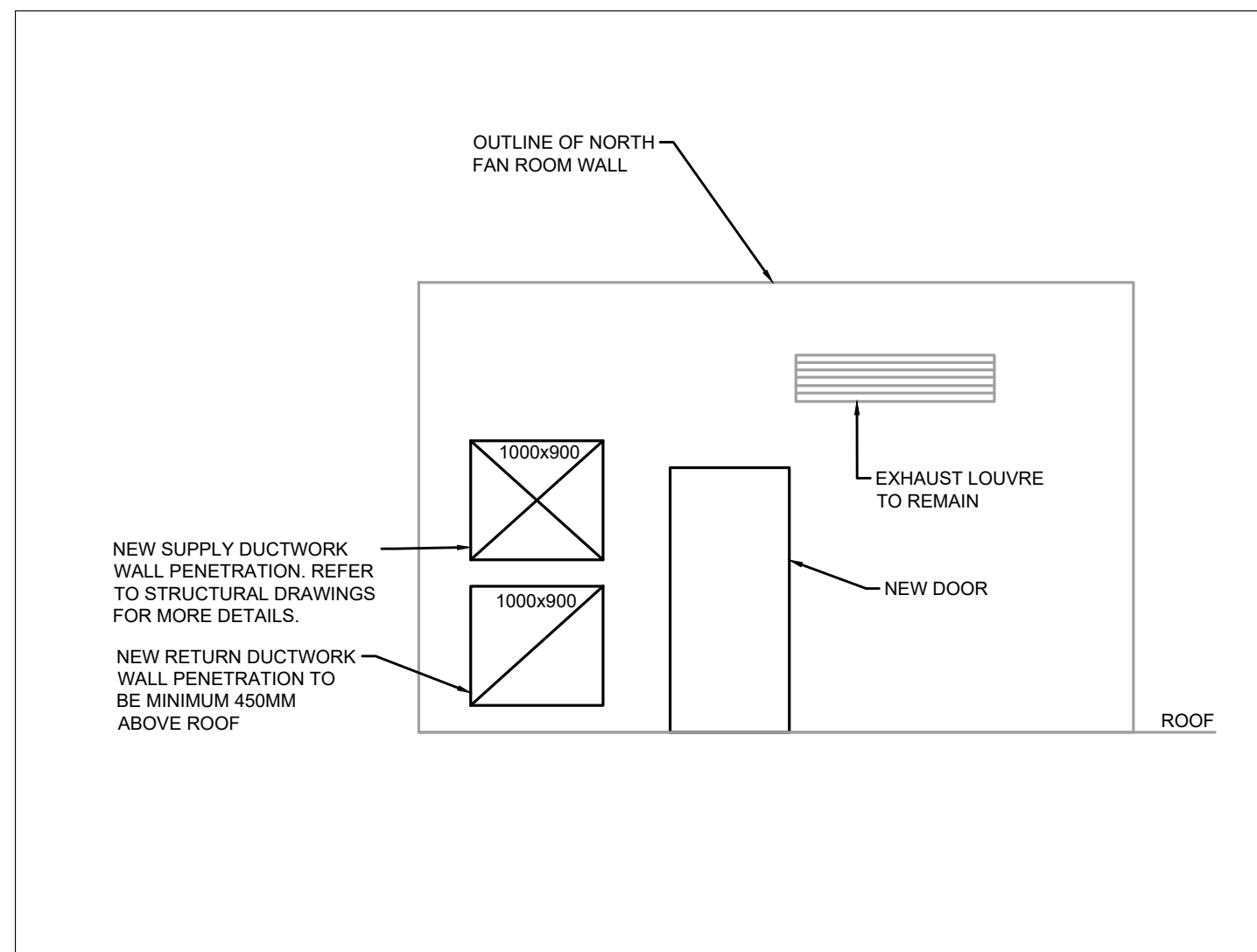
M-111



2 HVAC - GYM MECHANICAL ROOM NEW WORK PLAN  
SCALE: 1:50



1 HVAC - GYM MECHANICAL ROOM DEMOLITION PLAN  
SCALE: 1:50



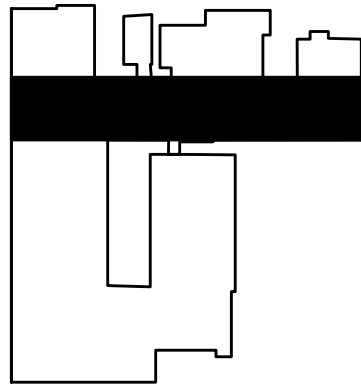
3 ELEVATION OF NORTH FAN ROOM WALL  
N.T.S.

NO.	DATE	DESCRIPTION
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DRAWING NO:



KEYPLAN



ISSUE DATE:

NO.	DATE	DESCRIPTION
3	16-MAR-21	ISSUED FOR TENDER
2	08-MAR-21	ISSUED FOR 95% TENDER REVIEW
1	16-FEB-21	ISSUED FOR 80% CD

PROJECT:

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

DRAWING TITLE:

HIGH ROOF - DEMOLITION & NEW  
WORK PLAN

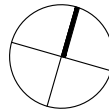
PROJECT NO: ED-20-300

SCALE: AS SHOWN

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REVIEWED BY: MH

PROJECT NORTH:

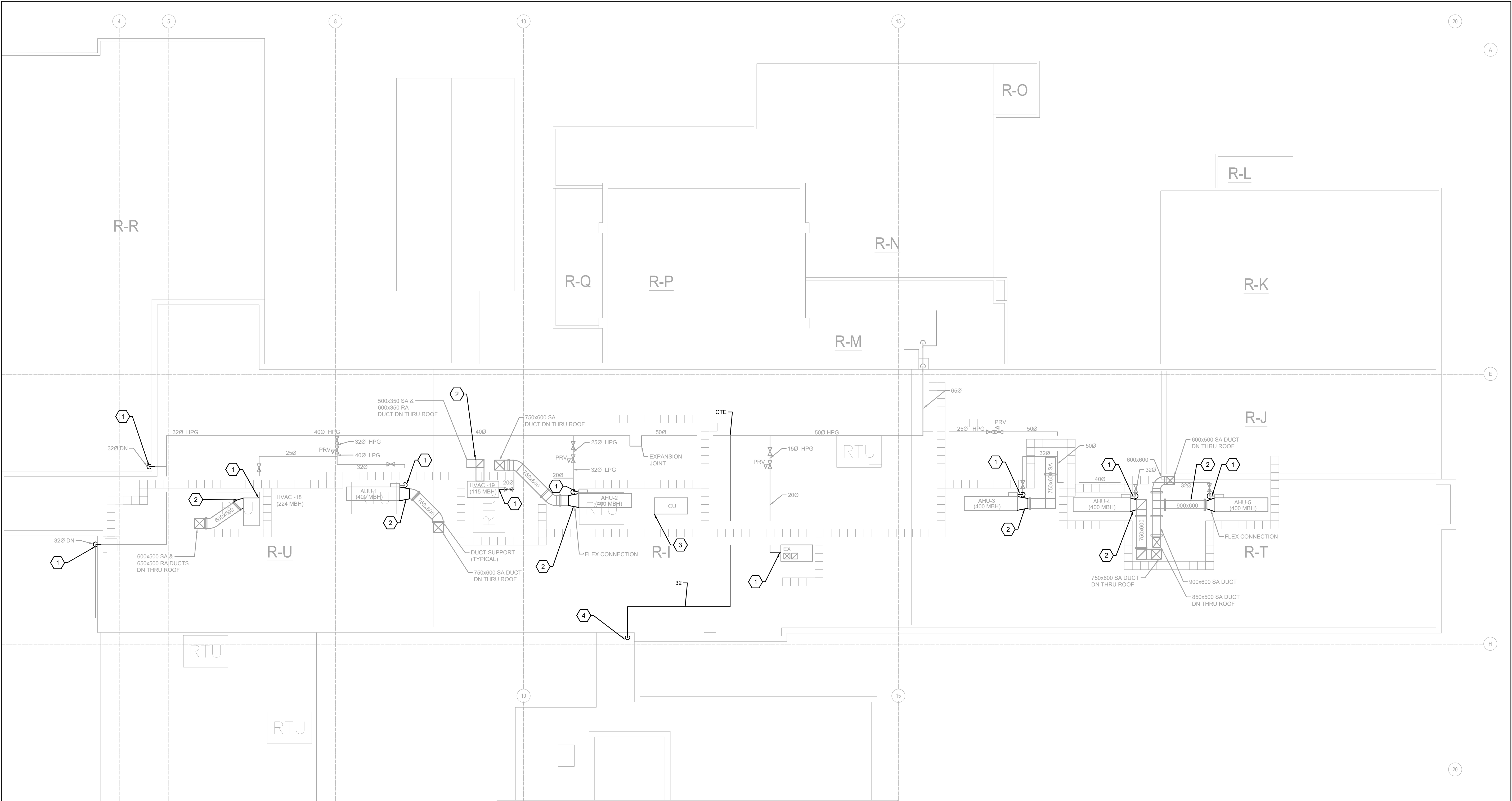


DRAWING NO:

M-120

SHEET KEYNOTES

- EXISTING NATURAL GAS PIPING ON ROOF TO BE DISCONNECTED FROM EQUIPMENT AND TEMPORARILY RAISED TO FACILITATE INSTALLATION OF NEW ROOF. PIPING IS TO BE RECONNECTED TO EXISTING UNITS AFTER NEW ROOF HAS BEEN INSTALLED. THE SURFACE OF ALL EXISTING NATURAL GAS PIPING ON HIGH ROOF IS TO BE CLEANED AND RE-PAINTED AS A PART OF THIS WORK.
- DUCT SUPPORTS FOR EXISTING ROOF MOUNTED DUCTWORK ARE TO BE REMOVED TO FACILITATE INSTALLATION OF NEW ROOF. PROVIDE NEW DUCT SUPPORTS FOR DUCTWORK AFTER NEW ROOF HAS BEEN INSTALLED.
- EXISTING CONDENSING UNIT IS TO BE TEMPORARILY DISCONNECTED AND RAISED TO FACILITATE INSTALLATION OF NEW ROOF. CUT BACK SEVEN (7) EXISTING REFRIGERANT LINES AS NEEDED FOR RAISING OF UNIT. UNIT TO BE RECONNECTED AFTER INSTALLATION OF NEW ROOF AND PIPING IS TO BE RE-INSULATED.
- CONNECT TO EXISTING NATURAL GAS PIPING ON ROOF AND EXTEND PIPING DOWN TO LOW ROOF TO SERVE NEW GYM ROOFTOP UNIT. REFER TO M-111.



1 HVAC - HIGH ROOF DEMOLITION AND NEW WORK PLAN  
SCALE: 1:150

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23 30 00.10 ROOF MOUNTED GAS PRESSURE REGULATOR INSTALL  
NOT TO SCALE

23 74 13.02 CONDENSATE DRAIN TRAP HEIGHT - OUTDOOR AIR HANDLING UNIT  
NOT TO SCALE

20 05 00.12 DETAIL OF PIPING PENETRATION THROUGH WALL  
NOT TO SCALE

23 30 09.01 FLEXIBLE METALLIC DUCTWORK  
NOT TO SCALE

23 30 09.02 FLEXIBLE METALLIC DUCTWORK CONNECTION  
NOT TO SCALE

**23 34 00.10 CENTRIFUGAL INLINE FAN**  
NOT TO SCALE

**23 30 29.01 FUSIBLE LINK DAMPER**  
NOT TO SCALE

**23 30 32.01 ROOF DUCT SUPPORT**  
NOT TO SCALE

**PROJECT:**

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

**DRAWING TITLE:**

## MECHANICAL DETAILS 1

PROJECT NO: ED-20-300

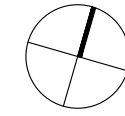
**SCALE:** AS SHOWN

DRAWN BY: RH

REVIEWED BY: MH

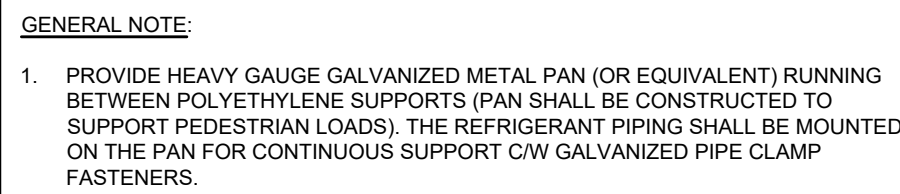
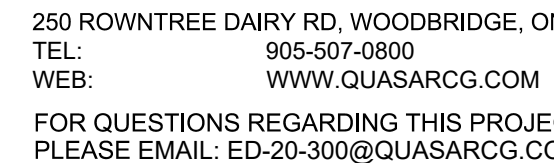
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# M-300





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**PROJECT:**

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

DRAWING TITLE:  
MECHANICAL DETAILS 2

PROJECT NO: ED-20-300

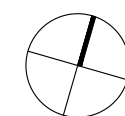
**SCALE:** AS SHOWN

DRAWN BY: RH

REVIEWED BY: MH

DRAWING NO:

M-301



23 11 23.01 NATURAL GAS PIPING SUPPORT ON ROOF  
NOT TO SCALE

23 74 13.01 DETAIL OF ROOFTOP UNIT INSTALLATION  
NOT TO SCALE

20 05 00.15 DETAIL OF PREFABRICATED ROOF CURB  
NOT TO SCALE

**22 13 00.02 SANITARY & STORM WATER CLEANOUTS**  
NOT TO SCALE


22 13 00.01 DWV ROOF PENETRATION & VENT CAP COVER  
NOT TO SCALE

[illegible]

PROJECT:

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

DRAWING TITLE:  
MECHANICAL DETAILS 3

PROJECT NO:	ED-20-300	PROJECT NORTH	
SCALE:	AS SHOWN		
DRAWN BY:	RH		
REVIEWED BY:	MH		

DRAWING NO:

M-302



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## ENERGY RECOVERY VENTILATOR SCHEDULE

SYSTEM	AREA SERVED	LOCATION	MANUFACTURER	MODEL NO.	SUPPLY FAN		EXHAUST FAN		SUMMER						WINTER						ELECTRICAL			WEIGHT (KG)	REMARKS				
					AIRFLOW (L/s)	ESP (PA)	AIRFLOW (L/s)	ESP (PA)	ENTERING AIR TEMP (°C)				LEAVING AIR TEMP (°C)		TOTAL HEAT RECOVERY (KW)	ENTERING AIR TEMP (°C)				LEAVING AIR TEMP (°C)		TOTAL HEAT RECOVERY (KW)	MCA (A)			MOCP (A)	V/φ/Hz		
									OUTDOOR AIR		RETURN AIR		SUPPLY AIR			OUTDOOR AIR		RETURN AIR		SUPPLY AIR									
									Db	Wb	Db	RH %	Db	Wb		Db	Wb	Db	Wb	Db	RH %							Db	Wb
ERV-1	CAFETERIA	ROOF	COOK	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		
<div>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/1ø/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 &amp; FLEXIBLE CONNECTION. 6. UNIT DISCONNECT TO BE FIELD SUPPLIED. 7. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.</div>																													

## SCHEDULE OF ROOFTOP AIR HANDLING UNITS

SYSTEM	AREA SERVICED	MODEL NO. (DAIKIN)	UNIT WEIGHT (KG)	AIRFLOW (L/s)	% FRESH AIR	COOLING COIL			HEAT EXCHANGER		SUPPLY FAN								RETURN FAN								FILTERS		ELECTRICAL			REMARKS		
						CAPACITY			COIL TYPE	CAPACITY		INLET 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)	VFD	DISCHARGE ORIENTATION	RETURN AIR FILTER	MCA	MOCP		ELECTRICAL V/φ/Hz	
						NOMINAL (TONS)	GROSS (KW)	SENSIBLE (KW)		INPUT (KW)	OUTPUT (KW)																							
						UNIT IS HEATING ONLY																												
HV-27	GYM	RDS802C	1,323	6,040	25	UNIT IS HEATING 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	BOTTOM	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:

1. ROOFTOP UNITS TO BE PROVIDED WITH STAINLESS STEEL GAS FIRED HEAT EXCHANGER.
2. RTU-2 DX COOLING COIL PERFORMANCE IS BASED ON R-410A REFRIGERANT.
3. EACH UNIT SHALL BE IN CONFORMANCE WITH ASHRAE 90.1 - 2010 EFFICIENCY.
4. NEW ROOF CURBS TO BE MINIMUM 600MM HIGH.
5. ROOFTOP UNIT SHALL HAVE SINGLE POINT POWER FEED.
6. EACH FAN TO BE COMPLETE WITH INTERNAL VIBRATION ISOLATION SPRINGS & FLEXIBLE CONNECTION

7. RTU-1 C/W SIDE-DISCHARGE KITS AND FIELD MODIFIED TO SUIT SIDE DISCHARGE.
8. RTU-2 C/W BOTTOM DISCHARGE KITS AND FIELD MODIFIED TO SUIT BOTTOM RETURN.
9. RTU-1 & RTU-2 C/W ECONOMIZER.

## SCHEDULE OF GRILLES AND DIFFUSERS

TAG	SERVICE	MANUFACTURER	MODEL NO.	SIZE (MMxMM)	FINISH	REMARKS
A	CEILING SUPPLY DIFFUSER	E.H. PRICE	ASCD	600x600, REFER TO FLOORPLAN FOR NECK CONNECTION	BY ARCH	ADJUSTABLE DIFFUSER
B	EGG CRATE RETURN/EXHAUST	E.H. PRICE	80 DAL	PER FLOOR PLAN	BY ARCH	SEE NOTE 1
NOTES: 1. RETURN/EXHAUST GRILES TO HAVE ANGLED BLADES ORIENTED UPWARDS TO PREVENT VISIBILITY OF DUCTWORK.						

## SCHEDULE OF MISCELLANEOUS FANS

TAG	AREA SERVED	MODEL NO.	MANUFACTURER	PERFORMANCE DATA				ELECTRICAL V/φ/Hz	REMARKS
				CAPACITY (L/s)	E.S.P. (PA)	FAN RPM	MOTOR (kW)		
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. PROVIDE WITH ISOLATION HANGERS									

## SCHEDULE OF PUMPS

[illegible]

**ISSUE DATE:**

3	16-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:**

## MECHANICAL SCHEDULES

PROJECT NO: ED-20-300

**SCALE:** AS SHOWN

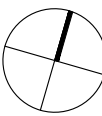
DRAWN BY: RH

REVIEWED BY: MH

**DRAWING NO:**

# M-400

## PROJECT NORTH





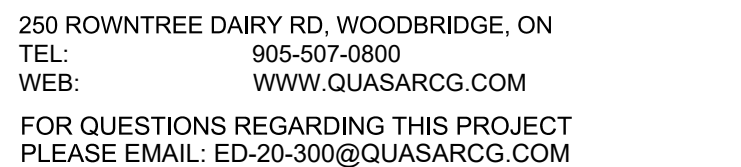
ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	120V U-GROUND DUPLEX RECEPTACLE.
	120V U-GROUND DUPLEX RECEPTACLE - CONTROLLED (ASHRAE 90.1-2010, 8.4.2).
	120V U-GROUND QUAD RECEPTACLE.
	SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN.
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
LIGHTING FIXTURES	
SYMBOLS IN ACCORDANCE WITH IES DS-3-00 WHERE NOT DETAILED OTHERWISE HERE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUIREMENTS.	
	SURFACE MOUNTED LINEAR LUMINAIRE
	RECESSED MOUNTED LUMINAIRE
	RECESSED DOWNLIGHT
Z1, Z2, ETC.	DENOTES ZONING/CIRCUITING ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE.
EMERGENCY LIGHTING	
REFER TO EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS.	
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	EMERGENCY LIGHTING BATTERY UNIT.
	ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS.
EM	DENOTES "EMERGENCY"
COMMUNICATIONS	
	WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND 1D UNLESS NOTED OTHERWISE.
	WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLESS NOTED OTHERWISE.
	WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED OTHERWISE.
WAP	WIRELESS ACCESS POINT (WIFI)
	PUBLIC ADDRESS SPEAKER. CEILING AND WALL MOUNTED, RESPECTIVELY.
ACCESS CONTROL	
	CARD READER
	DOOR CONTACT
	ELECTRIC STRIKE
	MUSHROOM HEAD PUSH BUTTON FOR MAGLOCK RELEASE, OR OTHER PUSH BUTTON AS INDICATED
	BARRIER FREE DOOR OPERATOR PUSH BUTTON
INTRUSION DETECTION	
	GLASS BREAK (GB)
	MOTION DETECTOR (MD)
	KEYPAD (KP)
	SOUNDER
FIRE DETECTION AND ALARM	
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAPG	FIRE ALARM PASSIVE GRAPHIC
FAZ	FIRE ALARM ZONE
FSZ	FIRE ALARM SUPERVISORY ZONE
EOL	END OF LINE DEVICE
WG	WIRE GUARD
	MANUAL PULL STATION (MPS)
CG	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W LEXAN COVER.
	FIRE ALARM HORN
	FIRE ALARM HORN/STROBE. WALL MOUNTED.
	FIRE ALARM WALL MOUNTED STROBE LIGHT
	PHOTOELECTRIC SMOKE DETECTOR
A	ADJACENT TO SMOKE DETECTOR, INDICATES C/W AUXILIARY RELAY
SA	WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM
	DUCT MOUNTED SMOKE DETECTOR
	END OF LINE (EOL) DEVICE ON ZONE INITIATION OR SIGNAL CIRCUITS
IM	ISOLATOR MODULE
	HEAT DETECTOR - FIXED TEMPERATURE
	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN")
FS	FLOW SWITCH
PS	PRESSURE SWITCH
SV	SUPERVISED VALVE
SINGLE LINE DIAGRAM	
	CIRCUIT BREAKER
	DISCONNECT (UNFUSED)
	FUSE
	METER
	TRANSFORMER
C	CONTACTOR
DP	DISTRIBUTION PANELBOARD
PP	POWER PANELBOARD
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
TX	TRANSFORMER
DETAIL REFERENCES	
	SHEET KEYNOTE
	REVISION NUMBER
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.	

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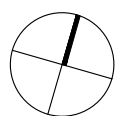
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PROJECT:  
ELMIRA DISTRICT  
SECONDARY SCHOOL  
- 4 UNIVERSITY AVE  
WEST, ELMIRA ON  
N3B 1K2

**DRAWING TITLE:**  
ELECTRICAL LEGEND AND  
DRAWING LIST

<b>PROJECT NO:</b>	<b>ED-20-300</b>	<b>PROJECT NORTH:</b>	
<b>SCALE:</b>	NOT TO SCALE		
<b>DRAWN BY:</b>	CW		
<b>REVIEWED BY:</b>	BD/TWS		

DRAWING NO:  
EA-001





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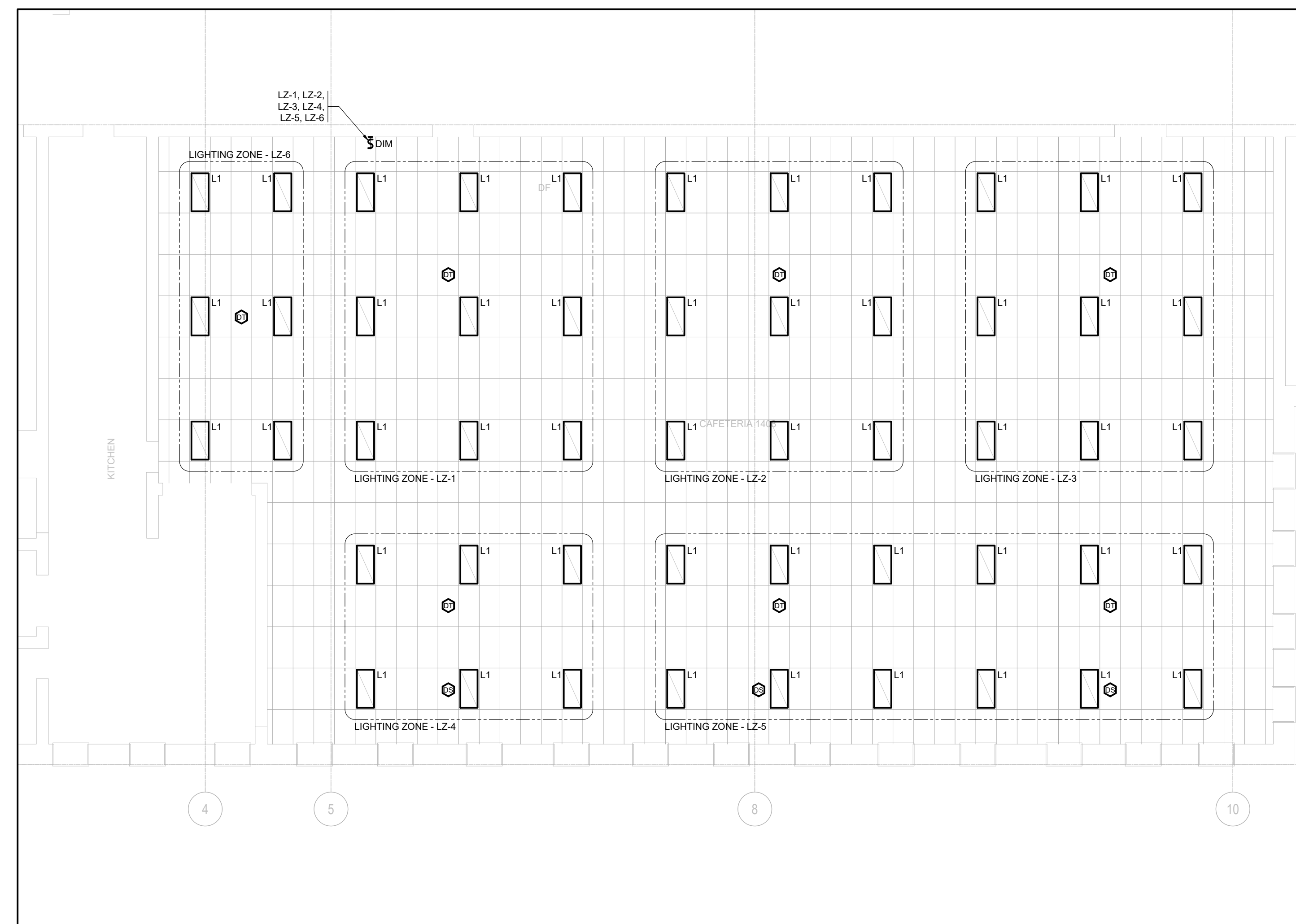
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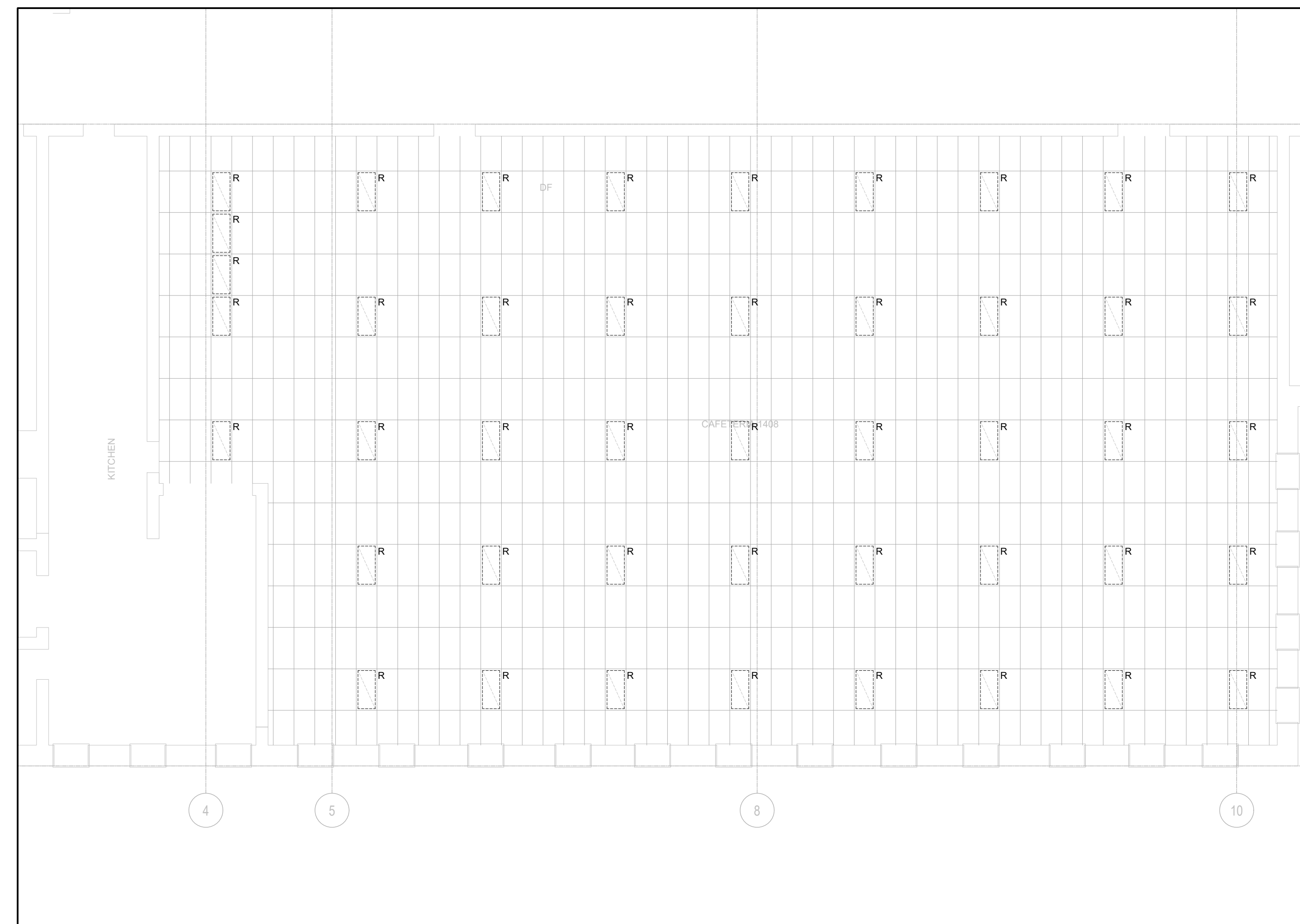


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2 CAFETERIA NEW WORK PLAN - LIGHTING  
SCALE: 1:100



1 CAFETERIA DEMOLITION PLAN - LIGHTING  
SCALE: 1:100

ISSUE DATE:

[illegible]

**PROJECT:**

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

DRAWING TITLE:

CAFETERIA LIGHTING PLANS

PROJECT NO: ED-20-300

**SCALE:** AS SHOWN

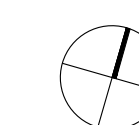
DRAWN BY: CW

REVIEWED BY: BD/TWS

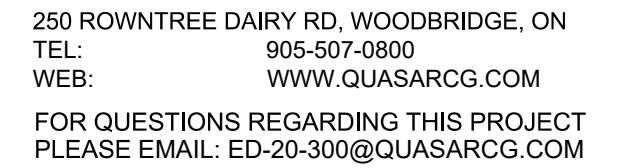
DRAWING NO:

EL-101

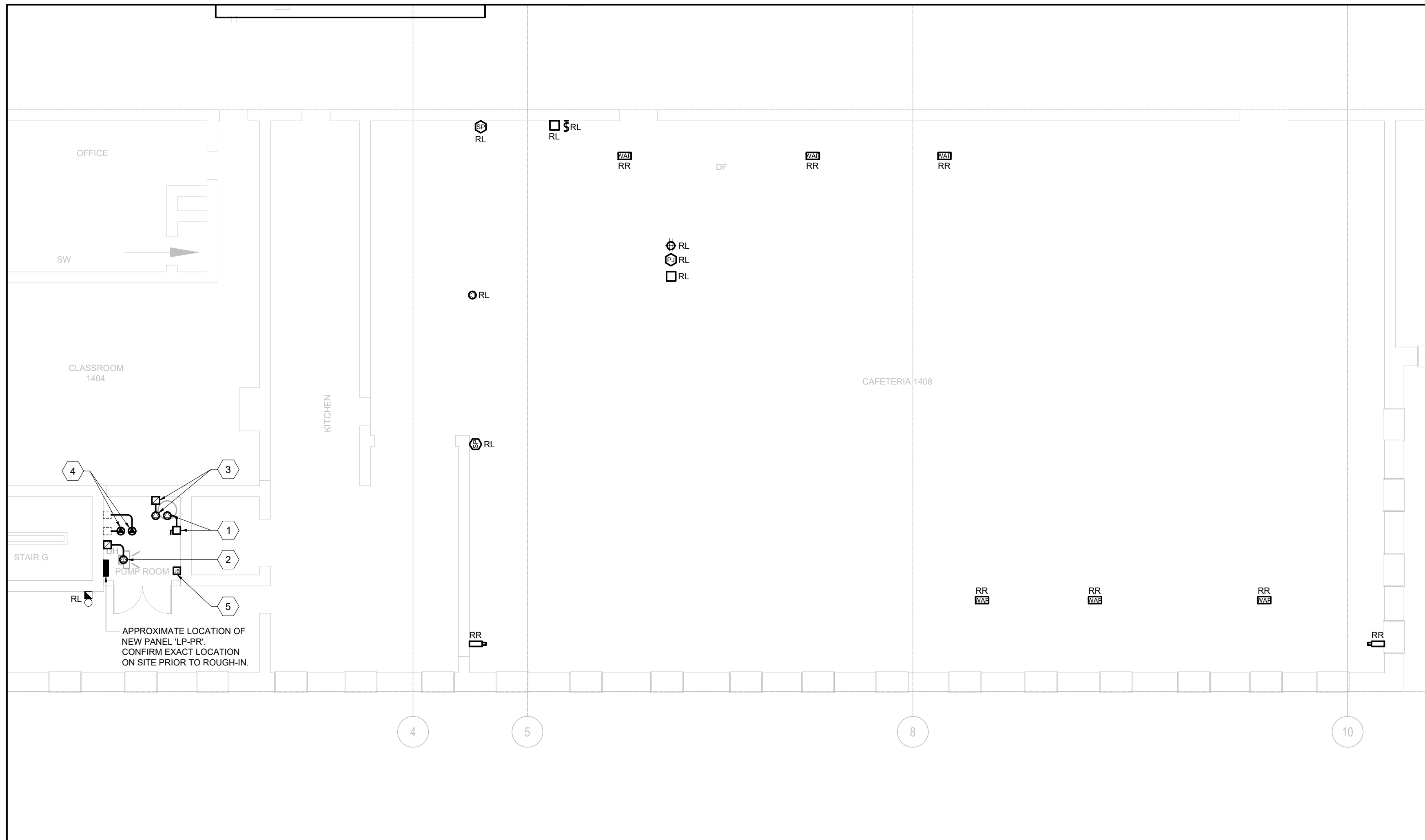
**PROJECT NORTH:**



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1. CONNECTION TO RELOCATED DOMESTIC HOT WATER TANK.  
EXTEND 2410 + GROUND IN 21mm (3/4") CONDUIT FROM DHW TANK TO BREAKER IN NEW PANEL LP-RP AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS BETWEEN UNIT HEATER AND ASSOCIATED STARTER BEING SUPPLIED BY MECHANICAL CONTRACTOR.
2. CONNECTION TO NEW UNIT HEATER "UH-1". EXTEND 2112 + GROUND IN 21mm CONDUIT FROM BREAKER IN NEW PANEL LP-RP TO UNIT HEATER LOCATION AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS BETWEEN UNIT HEATER AND ASSOCIATED STARTER BEING SUPPLIED BY MECHANICAL CONTRACTOR.
3. CONNECTION TO NEW DOMESTIC HOT WATER RECIRC PUMP "C11". EXTEND 2410 + GROUND IN 21mm (3/4") CONDUIT FROM RECIRC. PUMP TO ASSOCIATED BREAKER IN NEW PANEL LP-RP AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED STARTER. STARTER TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO PANEL SCHEDULES FOR FURTHER DETAILS.
4. CONNECTION TO NEW PUMPS "CP" AND "C10" AND ASSOCIATED VARIABLE FREQUENCY DRIVERS, FEED FROM NEW SPLITTER "1" IN BASEMENT. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED STARTER. REFER TO SINGLE LINE DRAWING FOR BRANCH FEEDER REQUIREMENTS.

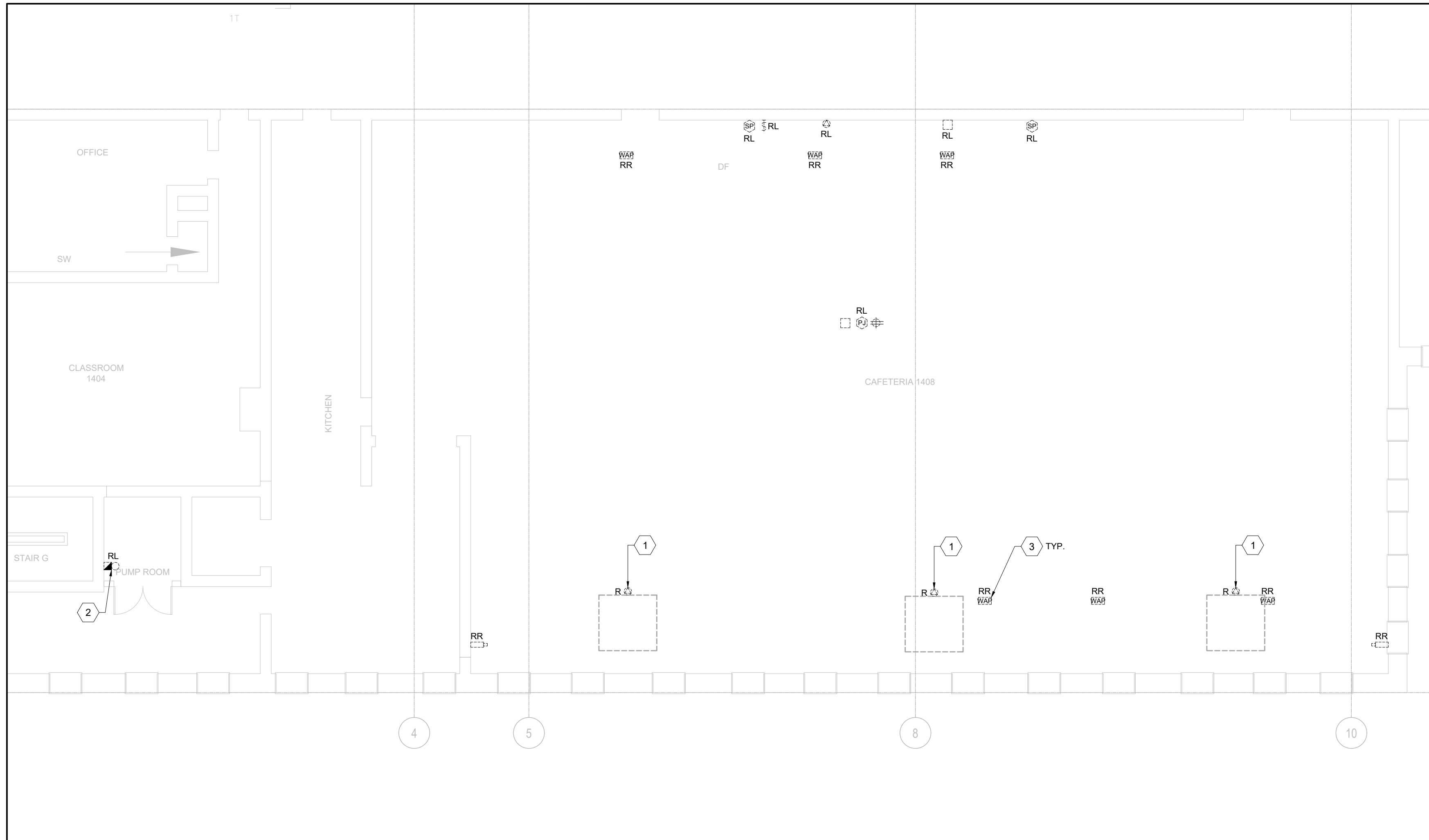


2 CAFETERIA NEW WORK PLAN - POWER & SYSTEMS  
SCALE: 1:100

1. CONNECTION TO EXISTING FAN COIL UNIT WITHIN CEILING SPACE OF CATERPILLAR TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ELECTRICAL WIRING AND ELECTRICAL CONNECTIONS. ALL ELECTRICAL DISTRIBUTION, CONDUIT EMBEDDED WITHIN WALLS OR FLOORS CAN BE ABANDONED. RETAIN EXISTING BREAKERS IN ELECTRICAL PANEL AS SPECIFIED.

2. EXISTING FIRE ALARM BELL TO BE RELOCATED TO ACCOMMODATE ENCLOSING OF SPACE TO CREATE A NEW PUMP ROOM. OWNER IS RESPONSIBLE TO MODIFY EXISTING SYSTEM WIRING TO BE REQUIRED TO SUIT NEW LOCATION. ALL WORK SHALL BE SHOWN ON NEW WORK PLANS. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK.

3. EXISTING LESSER ACCESS POINT TO BE DISCONNECTED AND REMOVED. STORED ON SITE AND RE-INSTALLED IN SAME LOCATION BY OWNERS (WRDSB) PREFERRED SYSTEM VENDOR OR A PRIME CONTRACTOR. OWNER SHALL BE RESPONSIBLE FOR GENERAL CONTRACTOR. BE RESPONSIBLE TO CONFIRM ON SITE IF EXISTING BACKBOXES EXIST BEHIND ACCESS POINT AND PROVIDE NEW, AS REQUIRED, FOR REINSTALLATION OF ACCESS POINT.



1 CAFETERIA DEMOLITION PLAN - POWER & SYSTEMS  
SCALE: 1:100

[illegible]

NO.	DATE	DESCRIPTION
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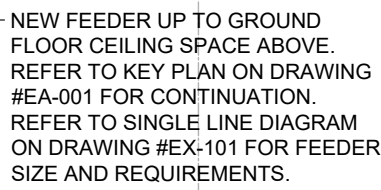
ELMIRA DISTRICT  
SECONDARY SCHOOL  
- 4 UNIVERSITY AVE  
WEST, ELMIRA ON  
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CAFETERIA POWER & SYSTEMS  
PLANS

**SCALE:** AS SHOWN

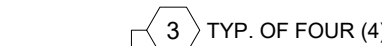
REVIEWED BY: CW

EP-101



2

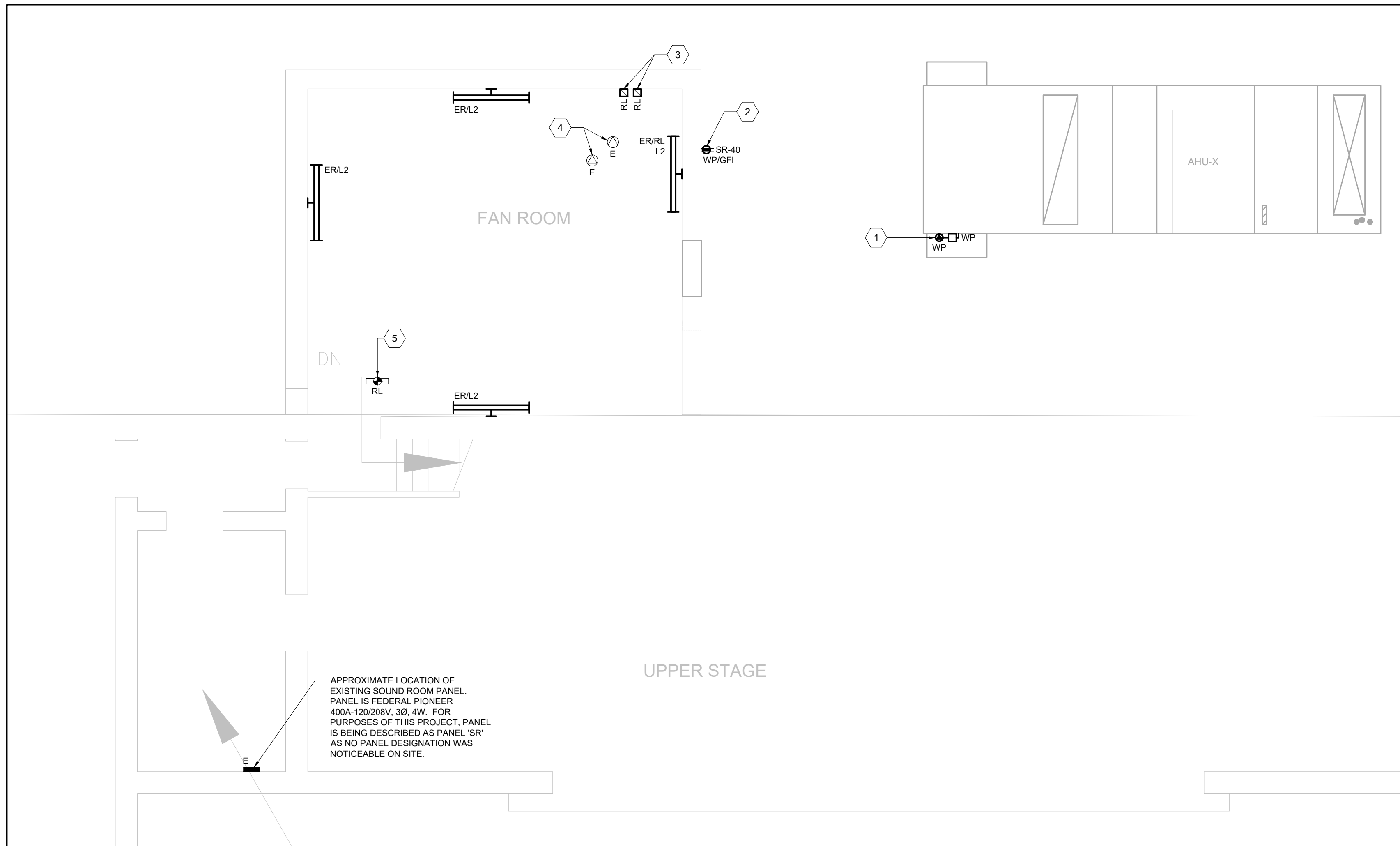
1. NEW SPLITTER 'L' AND ASSOCIATED DISCONNECT SWITCH MOUNTED ON WALL. BE RESPONSIBLE TO RECONNECT ALL EXISTING LOADS TO NEW DISCONNECT SWITCHES AND/OR STARTERS COMPLETE AND CONNECT ALL NEW LOADS TO NEW DISCONNECT SWITCHES AND/OR STARTERS COMPLETE. REFER TO SINGLE LINE DIAGRAM FOR FURTHER DETAILS.
2. PROVIDE CONNECTION TO NEW EXHAUST FAN 'EF-1', FED FROM NEW SPLITTER 'L', INCLUDING ALL REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED STARTER. REFER TO SINGLE LINE DIAGRAM FOR BRANCH FEEDER REQUIREMENTS. STARTER TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.



( 1

1. EXISTING SPLITTER PANEL '1' TO BE REMOVED AND REPLACED IN ITS ENTIRETY. BE RESPONSIBLE TO REMOVE EXISTING FEEDER (CABLE) TO WIRE TRANSFORMER AND TO REMOVE EXISTING SUPPLY ENTIRETY AND RETAIN EXISTING BREAKER AS SPARE. ANY CONDUIT CONCEALED WITHIN EXISTING WALL OR FLOOR SHALL BE REMOVED. SHOWN IN THE DRAWING. ALL SUPPLIES, BEING RETAINED, BE RESPONSIBLE TO SPLICE AND EXTEND EXISTING FEEDERS TO NEW SPLITTER LOCATION AND CONNECT TO NEWLY INSTALLED NEW FEEDER. REFER TO THE DRAWING TO REFER TO SINGLE LINE DRAWING FOR FURTHER DETAILS. REFER TO KEYPLAN ON DRAWING AREA-001 FOR LOCATION OF EXISTING SPLITTER PANEL '1'.
2. CONNECTION TO EXISTING BOILER TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL '1'.
3. CONNECTION TO EXISTING PUMP TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL '1'.
4. CONNECTION TO EXISTING OIL PUMP TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL '1'.
5. CONNECTIONS TO EXISTING DOMESTIC HOT WATER TANK AND ASSOCIATED RECIRC. PUMPS TO BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO SOURCE, EXISTING STARTERS AND ASSOCIATED LINE AND LOAD CONNECTIONS TO RECIRC. PUMPS TO BE REMOVED IN ITS ENTIRETY.
6. CONNECTION TO EXISTING BOILER ROOM SUPPLY FAN TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL '1'.

1. CONNECTION TO NEW ROOF TOP UNIT HW-27. EXTEND NEW FEEDER FROM UNIT TO NEW SPLITTER 1' WITHIN EXISTING PUMP ROOM AS SHOWN ON DRAWING HP-102. REFER TO SINGLE LINE DIAGRAM FOR FEEDER SIZES.
2. PROVIDE NEW WALL MOUNTED SERVICE RECEPTACLE. PROVIDE A 20A-1P GFI TYPE BREAKER WITHIN EXISTING PANEL IN SOUND ROOM AND EXTEND 270' TO GROUND IN 2" MINIMUM CONDUIT FROM PANEL TO RECEPTACLE. PROVIDE 10' MINIMUM FREE SPACE. RECEPTACLE SHALL BE INSTALLED MINIMUM 750mm ABOVE FINISHED ROOF LEVEL.
3. EXISTING STARTERS FOR EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS TO BE RELOCATED POSITION AND WIRING.
4. CONNECTIONS TO EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS TO REMAIN.
5. RE-INSTALL EXISTING FIRE ALARM DETECTOR WITHIN NEW DUCTWORK AND RECONNECT TO EXISTING SYSTEM WIRING COMPLETELY. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK.



2 GYM MECHANICAL ROOM NEW WORK PLAN - ELECTRICAL  
SCALE: 1:50

1. CONNECTION TO EXISTING SPLY AIR UNIT TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING AND WIRING AND ASSOCIATED STARTER/CONTROL DOOR. EXISTING SPLITTER PANEL WITHIN EXISTING BOILER ROOM.
2. CONNECTION TO EXISTING RETURN FAN TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLEING BACK TO BOILER ROOM AND ASSOCIATED STARTER/CONTROL DOOR. EXISTING SPLITTER PANEL WITHIN EXISTING BOILER ROOM.
3. CONNECTION TO EXISTING HOT WATER CIRCULATION PUMP TO BE REMOVED IN ITS ENTIRETY INCLUDING ALL ASSOCIATED PIPING AND WIRING. EXISTING ELECTRICAL WIRING TO BE REMOVED BACK TO SOURCE ELECTRICAL DISTRIBUTION. EXISTING CONDUIT EMBEDDED WITHIN EXISTING WALL OR FLOOR CONSTRUCTION CAN BE ABANDONED.
4. STARTER/CONTROL DOOR EXISTING GYM SPLY AIR AND RETURN AIR UNITS TO BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY.
5. STARTERS FOR EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS TO BE RELOCATED TO ACCOMMODATE NEW EXHAUST FANS. RESPONSIBLE TO RELOCATE EXISTING LIGHTING CIRCUIT(S) AS REQUIRED TO REROUTE EXISTING FEEDERS AWAY FROM NEW DOOR. INCLUDING ACCESSING CEILING SPACE OF FLOOR BELOW. REFER TO TO NEW WORK DRAWINGS FOR NEW LOCATION OF STARTER.
6. CONNECTIONS TO EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS TO REMAIN.
7. EXISTING WALL MOUNTED LUMINAIRES TO BE REMOVED AND NEW WALL MOUNTED LUMINAIRE RESPONSIBLE TO MODIFY EXISTING LIGHTING BRANCH CIRCUIT(S) AS REQUIRED TO ACCOMMODATE NEW LUMINAIRES.
8. EXISTING WALL MOUNTED LUMINAIRE TO BE RELOCATED AND NEW WALL MOUNTED LUMINAIRE RESPONSIBLE TO RELOCATE AND BE RESPONSIBLE TO MODIFY EXISTING LIGHTING BRANCH CIRCUIT(S) AS REQUIRED TO ACCOMMODATE NEW LUMINAIRE.
9. REFER TO NEW WORK PLAN FOR NEW LOCATION OF LUMINAIRE.
10. EXISTING ALARM BELL TO BE REMOVED. EXISTING SMOKE DETECTOR EXISTING DUCTWORK BEING DEMOLISHED AND RE-INSTALLED WITHIN NEW DUCTWORK INSTALLATION. BE RESPONSIBLE TO MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO RELOCATE REMOTE DETECTOR TO NEW LOCATION OF SMOKE DETECTOR. RE-VERIFY DEVICE UPON COMPLETION OF WORK.

1 GYM MECHANICAL ROOM DEMOLITION PLAN - ELECTRICAL  
SCALE: 1:50

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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:**

[illegible]

**PROJECT:**

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

**DRAWING TITLE:**

## GYM MECHANICAL ROOM PLANS - ELECTRICAL

PROJECT NO: ED-20-300

**SCALE:** AS SHOWN

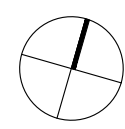
DRAWN BY: CW

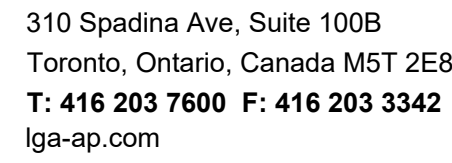
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**DRAWING NO:**

# EP-103

**PROJECT NORTH:**





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2 PARTIAL HIGH ROOF PLAN - ELECTRICAL  
SCALE: 1:100



BE RESPONSIBLE TO COORDINATE ALL FINAL EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR ON SITE.

- 1 CONNECTION TO ROOF MOUNTED AIR HANDLING UNIT HVAC-23. EXTEND NEW FEEDER FROM UNIT TO NEW SPLITTER 1' WITHIN EXISTING PUMP ROOM IN BASEMENT AND CONNECT COMPLETE. REFER TO SINGLE LINE DIAGRAM ON DRAWING 48-101 FOR FEEDER AND MAIN DISCONNECT REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.
- 2 CONNECTION TO ROOF MOUNTED AIR HANDLING UNIT HVAC-24. EXTEND NEW FEEDER FROM UNIT TO NEW SPLITTER 1' WITHIN EXISTING PUMP ROOM IN BASEMENT AND CONNECT COMPLETE. REFER TO SINGLE LINE DIAGRAM ON DRAWING 48-101 FOR FEEDER AND MAIN DISCONNECT REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.
- 3 CONNECTION TO ROOF MOUNTED EIR UNIT ERY-1. EXTEND NEW FEEDER FROM UNIT TO NEW SPLITTER 1' WITHIN EXISTING PUMP ROOM IN BASEMENT AND CONNECT COMPLETE. REFER TO SINGLE LINE DIAGRAM ON DRAWING 48-101 FOR FEEDER AND MAIN DISCONNECT REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.
- 4 CONNECTION TO UNIT MOUNTED SERVICE RECEPTACLE PROVIDED WITH ROOF MOUNTED AIR HANDLING OR EIR UNIT. EXTEND NEW 1/2" GRIND RIG 21mm CONDUIT FROM SERVICE RECEPTACLE TO BREAKER IN NEW PANEL AND CONNECT COMPLETE. REFER TO PANEL SCHEDULES FOR BREAKER REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.

[illegible]

NO.	DATE	DESCRIPTION
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ELMIRA DISTRICT  
SECONDARY SCHOOL  
- 4 UNIVERSITY AVE  
WEST, ELMIRA ON  
N3B 1K2

## ROOF PLANS - ELECTRICAL

**PROJECT NORTH:**



EP-104

PANEL ID: LP-PR	VOLTS: 120/208V	LOCATION: NEW PUMP ROOM
MAIN BUS: 100A	PHASE: 3	FED FROM: NEW SPLITTER 'L' (BASEMENT)
MAIN BREAKER: NONE	WIRE: 4	FEEDER ENTRY AT: BOTTOM
TYPE:	MOUNTING: RECESSED	FEEDER: REFER TO SINGLE LINE
INTERRUPTING CAPACITY: 10KA MIN	ENCLOSURE RATING:	REMARKS:

NOTES:

- \* - PROVIDE LOCKABLE BREAKER
- \*\* - PROVIDE GFI TYPE BREAKER
- \*\*\* - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS
- R - RECEPTACLE
- L - LIGHTING

CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND CAT. NO. SEE NOTE 1	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
	L1	RECESSED 2' x 4' LED TROFFER STYLE LUMINAIRE COMPLETE WITH WHITE FINISH, AND K12 ACRYLIC PRISMATIC LENS, 0.125" THICK.	PEERLESS ELECTRIC (OMNILUMEN) PEERLUX SERIES CAT.#LACH3-24G-48-40K-12P-MV	120V	4800 LUMEN 4000K	RECESSED T-BAR CEILING		
	L4-4	WALL MOUNTED 4'-4" LONG LED LUMINAIRE COMPLETE WITH ROUND EXTRUDED RUBBED FROSTED EXTRUDED LENS AND WHITE FINISH.	PEERLESS ELECTRIC (OMNILUMEN) PEERLUX SERIES CAT.#NSL-RA-4-40-40K-W-MV	120V	4000 LUMEN 4000K	SURFACE WALL MOUNT		

LIGHTING FIXTURE SCHEDULE NOTES:

- UNLESS NOTED OTHERWISE, ACCEPTED ALTERNATE MANUFACTURERS AND SUPPLIERS: ACUITY BRANDS LIGHTING, COOPER LIGHTING SOLUTIONS, CREE CANADA, HUBBELL LIGHTING, PEERLESS ELECTRIC, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCORVISIONENGINEERING.
- WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
- SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

**LIGHTING FIXTURE SCHEDULE NOTES:**

1. UNLESS NOTED OTHERWISE, ACCEPTED ALTERNATE MANUFACTURERS AND SUPPLIERS: ACUTY BRANDS LIGHTING, COOPER LIGHTING SOLUTIONS, CREE CANADA, HUBBELL LIGHTING, PEERLESS ELECTRIC SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCOR INDUSTRIES

2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.

3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPECIFICATION SECTION	SPACES SERVED	REMARKS
 Z1, Z2	UI-DIM-NV-X-B	DIMMING WALL STATION, MULTI-BUTTON WALL INTERFACE CONTROL, C/W ENGRAVED BUTTONS. BUTTONS: EACH ZONE CONTROLLED (SEE PLANS), DIM UP, DIM DOWN, ALL OFF, ALL ON. 'X' DENOTES NUMBER OF CONTROLLED ZONES	ACUITY BRANDS CONTROL/INLIGHT NP0DM SERIES PHILIPS REVOLUTION SERIES DR2PA	DIGITAL	-	WALL	26 09 43		
 DT	DT-W-2V	WALL MOUNT OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR, MIN 1200 SQ FT COVERAGE	PHILIPS OCCUSWITCH CLASSIC LRM2265 SERIES WATTSTOPPER DT-200 SERIES		24 V	WALL, +/- 12 FEET AFF	26 09 23		
 DH	DH-C	CEILING MOUNTED PHOTOCCELL SENSOR FOR INTERIOR DAYLIGHT HARVESTING			24 V		26 09 23		

**LIGHTING CONTROLS SCHEDULE NOTES:**

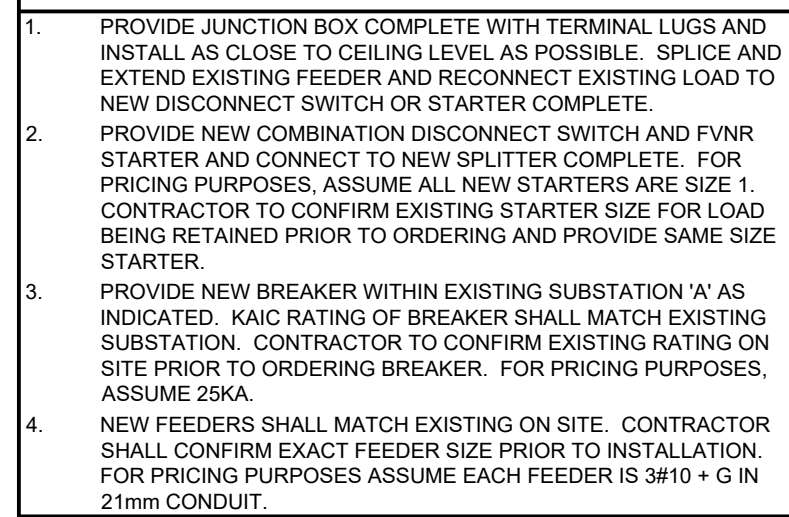
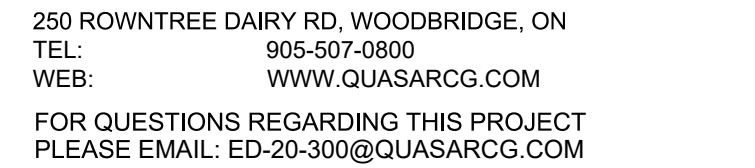
1. LIGHTING CONTROLS OF ONE MANUFACTURER THROUGH PROTECT TO ENSURE PRODUCT COMPATIBILITY.
2. ALTERS MANUFACTURERS: ACUITY BRANDS LIGHTING (SENSORSWITCH, LUSIGHT), COOPER LIGHTING SOLUTIONS, DOUGLAS LIGHTING CONTROLS, LUTRON, SIGNIFY (FORMERLY PHILIPS LIGHTING), WATTS/OPPER-LEGRAND
3. DUAL TECHNOLOGY SENSORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE INFRARED/MICROPHONE, DEPENDING ON MANUFACTURER. MICROPHONE SENSORS ACCEPTABLE IN LIEU OF ULTRASONIC.
4. POSITION CEILING MOUNTED OCCUPANCY SENSORS A MINIMUM 1200 mm (4'-0") FROM NEAREST AIR DIFFUSER, HVAC OUTLETS, HEATING BLOWERS, ETC.
5. CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.
6. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
7. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.

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**ISSUE DATE:**

[illegible]

3	16-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
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**PROJECT:**

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

**DRAWING TITLE:**

## ELECTRICAL SCHEDULES AND SINGLE LINE DIAGRAM

**PROJECT NO: ED-20-300**

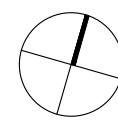
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**PROJECT NORTH:**



EX-101

