ELMIRA DISTRICT SECONDARY SCHOOL - WINDOW, ROOF, HVAC & SANITARY UPGRADES

4 UNIVERSITY AVENUE WEST, ELMIRA, ONTARIO N3B 1K2



SCOPE OF WORK

THE PROJECT INVOLVES 7 PRINCIPLE PHASES OF WORK, AND ONE OPTIONAL PHASE. RE-ROOFING OF THE EXISTING HIGH ROOF AND THE WEST PORTION OF THE GYMNASIUM

- REPLACEMENT OF SOUTHWEST WING WINDOWS AND ENTRANCE DOOR RE-ROUTING OF EXISTING SANITARY LINE
- CONDITIONING TO THE CAFETERIA PROVISION OF NEW RTUS FOR AIRCONDITIONING TO THE CAFETERIA
- GROUND FLOOR PUMP ROOM

DRAWING LIST - ARCHITECTURAL

A000 COVER SHEET AND SHEET LIST, OBC MATRIX

- A002 ANNOTATION LEGEND, ABBREVIATIONS & GENERAL NOTE A005 WINDOW SCHEDULE & SCREEN SCHEDULE
- A011 SITE PLAN & SITE DATA A012 SITE DETAILS & PHASING PLAN
- FROM UNDER THE GYNMASIUM, WITH
- ASSOCIATE SITE WORK. PROVISION OF NEW RTUS FOR AIR
- LOCKER REFURBISHEMENT
- AND RELOCATION OF SERVICES TO A NEW

OPTIONAL PHASE: REMOVAL OF BASEMENT BOILER

A001 ASSEMBLIES & DOOR SCHEDULE

- DECOMMMISSIONING OF EXISTING BOILER

- A020 BASEMENT FLOOR PLAN DEMOLITION
 - A021 GROUND FLOOR PLAN DEMOLITION A022 SECOND FLOOR PLAN - DEMOLITION
 - A023 THIRD FLOOR PLAN DEMOLITION A024 ROOF PLAN - DEMOLITION A025 PARTIAL EXTERIOR ELEVATIONS - DEMOLITION
 - A100 BASEMENT PLAN PROPOSED A101 GROUND FLOOR PLAN - PROPOSE
 - A102 SECOND FLOOR PLAN PROPOSED A103 THIRD FLOOR PLAN - PROPOSED
 - A104 ROOF PLAN PROPOSED A301 EXTERIOR ELEVATIONS - NEW FENESTRATION
 - A510 ROOF DETAILS
 A521 SECTION DETAILS
 - A501 PLAN DETAILS

DRAWING LIST - ELECTRICAL

L-101 CAFETERIA LIGHTING PLANS P-101 CAFETERIA POWER & SYSTEMS PLANS P-102 BOILER & PUMP ROOM PLANS ELECTRICAL

P-103 GYM MECHANICAL ROOM PLANS - ELECTRICAL EP-104 HIGH ROOF PLAN - ELECTRICAL

DRAWING LIST - MECHANICAL

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-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 SCHEDULE

DRAWING LIST - STRUCTURAL

S1 PARTIAL ROOF FRAMING PLANS S2 SECTIONS AND DETAILS

DRAWING LIST - CIVIL

C1 NOTES, LEGEND, AND DETAILS

C2 EXISTING CONDITIONS, REMOVAL, AND SEDIMENT & EROSION CONTROL PLAN

OBC MATRIX PART 11 Firm Name and Address: LGA Architectural Partners Inc Elmira District Secondary School -310 Spadina Ave, Suite 100B Renovations Toronto, ON M5T 2E8 Certification of Practice Number: 4 University Avenue West, Elmira, Ontario N3B 1K2 Building Code **Ontario Building Code Data Matrix** Ontario Building Code Data Matrix (CONT'D) Part 11 – Renovation of Existing Building Reference¹ M/F = 1/1 Except as otherwise noted Reference Required Provided --- EXISTING TO REMAIN UNCHANGED ---Re-roofing, window replacement, plumbing revision and new HVAC added to portions of existing public secondary school 11.12 Barrier-free Design: 11.3.3.2.(2) 1.02 Major Occupancy Classification: 11.4.2.1. .13 Reduction in Structural: Performance Level: 11.03 Superimposed By change of major occupance 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.04 Building Area (m2) ☐ Yes Extension of combustible 11.4.2.6. construction: 🛛 No 🗆 Yes Structural: 11.05 Building Height Storeys above grade ____12.3__ (m) Above grade 1.06 Number of Streets/ FIREFIGHTER ACCESS ROUTE ON WEST SIDE OF BLDG & 3.2.5. Firefighter access T.11.2.1.1.B.-N. 1.07 Building Size Large ☐ Medium 11.08 Existing Building Classification: 11.2.1.1. Change in Major Occupancy: ☐ Yes ☒ Not Applicable (no change of major occupancy) T 11.2.1.1A T 11.2.1.1B to Hazard Index: I. ALL NEW DUCT PENETRATIONS THROUGH EXISTING 1 HOUR 5.2.2.1.(2) ☐ High ☐ Post-disaster 2. NEW ROOFING SYSTEM TO EQUAL OR EXCEED THE FIRE RESISTANCE OF THE ROOFING BEING REPLACED. 1.09 Renovation type: ☑ Basic Renovation ☐ Extensive Renovation 3. 3. NEW 1 HOUR FRR PARTITION TO BE BE FULL HEIGHT & Occupant Load 3.1.17. 11.10 Occupant Load ¹ All references are to Division B of the OBC unless preceded by [A] for Division A and [C] for Division C

MECHANICAL/ELECTRICAL CONSULTANT

Quasar Consulting Group 250 Rowntree Dairy Road Woodbridge, Ontario L4L 9J7 905.507.0800

CIVIL CONSULTANT

Strik Baldinelli Moniz Ltd. 1415 Huron Rd. Unit 225 Kitchener, Ontario N2R 0L3 519.725.8093

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2 2021.03.16 ISSUED FOR TENDER NO. DATE

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

COVER SHEET SHEET LIST AND **OBC MATRIX**

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

DRAWING NO:

A000

OWNER Waterloo Region District School Board 51 Ardelt Avenue Kitchener, Ontario N2C 2S9 519.570.0003

ARCHITECT

STRUCTURAL CONSULTANT

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

P - INTERIOR PARTITION AND FURRING ASSEMBLIES										
TYPE	DIAGRAM	DESCRIPTION	ASSEMBLY-SPECIFIC NOTES	PERFORM	IANCE					
		152mm NON-LOADBEARING STEEL STUDS WITH	BASIS OF DESIGN UL W453 OR SIMILAR PER OBC	CATEGORY	REQUIRED	PROVIDED				
P1		16mm GB (BOTH SIDES) VAR FINISH, REFER TO FINISH PLANS	SB-2	FRR	SEE SHEET A.01	PROVIDED 1HR PER OBC SB-2 - PROVIDED 1HR PER OBC SB-2 -				
~	$ \bigwedge \bigwedge$	VAR FINISH, REFER TO FINISH PLANS 16mm GYPSUM WALL BOARD 152mm NON-LOADBEARING STEEL STUD FRAMING		STC	-	-				
		@ 406mm O.C. C/W 89mm INS-03 BATT INSULATION 16mm GYPSUM WALL BOARD VAR FINISH, REFER TO FINISH PLANS	NOTE: UNLESS NOTED OTHERWISE, SPECIFIED INSULATION TO FILL ENTIRE DEPTH AND HEIGHT OF STUD CAVITY							
		190mm LOADBEARING CMU	NOTE: REFER TO STRUCTURAL DRAWINGS FOR	CATEGORY	REQUIRED	PROVIDED				
P2		VAD FINICIA DEFED TO FINICIA DI ANG	LATERAL SUPPORT CONNECTIONS AND DETAILS NOTE: REFER TO STRUCTURAL DRAWINGS FOR	FRR	SEE SHEET A.01					
,		VAR FINISH, REFER TO FINISH PLANS 190mm INTERIOR LOADBEARING CMU HOLLOW BLOCK, NORMAL WEIGHT TYPE "N"	INTERIOR OPENING LINTEL SUPPORT DETAILS.	STC RATING		-				
		REFER TO STRUCTURAL VAR FINISH, REFER TO FINISH PLANS	NOTE: TYPICAL HORIZONTAL AND VERTICAL MORTAR JOINT SPACING TO BE 10mm UNLESS NOTED OTHERWISE.		I					
			NOTE: PROVIDE BULLNOSE BLOCK AT ALL EXPOSED CORNER, JAMB, AND HEAD CONDITIONS							

FOR ALL ASSEMBLIES IN THE CONTRACT DOCUMENTS WITH A DESIGNATED LISTING FROM A TESTING AUTHORITY (E.G. ULC) IT IS THE FULL RESPONSIBILITY OF THE TRADE CONTRACTOR AND/OR CONSTRUCTION MANAGER TO INDEPENDENTLY RESEARCH, PROVIDE, AND CONSTRUCT THE COMPLETE PUBLISHED ASSEMBLY AS DESCRIBED BY THE ASSOCIATED TESTING AUTHORITIES. THE DESCRIPTION OF THE ASSEMBLIES IN THE CONTRACT DOCUMENTS ARE NOTED "AS BASIS OF DESIGN" AND MAY NOT REPRESENT THE FULL CRITERIA AS DEFINED BY THE TESTING AUTHORITY.

R - ROOF ASSEMBLIES

C - SUSPENDED CEILING ASSEMBLIES

TYPE	DIAGRAM	DESC	CRIPTION	ASSEMBLY-SPECIFIC NOTES	PERFORM	ANCE	
	EXTERIOR	3 PLY (COLD BUILT UP ROOF SYSTEM ON EXIST.	NOTE: PROVIDE 2440 x 2400mm SUMPS (2%) AT	` '		
		1 PLY POWER	RPLY ENDURE 200 FR GRANULATED CAP	ALL DRAIN LOCATIONS, REFER TO ROOF PLAN.	R-VALUE	R-35 (CI)	R-36.3 (CI)
		_	INTO COLD RUBBERIZED ADHESIVE	NOTE: PROVIDE CONTINUOUS 4570mm WIDE	DOLVALUE	R-35 (CI) R-3	DOL 0.0 (OI)
R1			OSITE PLY HT INTO COLD RUBBERIZED	BACKSLOPED TAPERED INSULATION AT ALL	RSI-VALUE	RSI-6.2 (CI)	RSI-6.3 (CI)
		ADHES	NLT COATED FIBERBOARD ADHERED W/ LOW	EXTERIOR PARAPETS AND ROOF-TO-WALL CONDITIONS (2% SLOPE MINIMUM), REFER TO			
			OAM ADHESIVE	ROOF PLAN.			
		VAR TAPER	ED PERIMETER BACK SLOPE POLYISO				
	A STATE OF THE STA	ADHER	RED W/ LOW RISE FOAM ADHESIVE	NOTE: ALL INSULATION BOARD JOINTS (HORIZONTAL			
			SO ADHERED W/ LOW RISE FOAM ADHES.	AND VERTICAL) TO BE STAGGERED.			
			SO ADHERED W/ LOW RISE FOAM ADHES.				
	INTERIOR		EMBRANE (VAPOR BARRIER) & PRIMER	NOTE:COORDINATE WORK WITH MECHANICAL			
			DECK ADHERED W/ LOW RISE FOAM ADHS.	TRADES. REFER TO MECHANICAL DRAWINGS			
1		VAR EXISTI	NG ROOF DECK: REFER TO DWGS				

TYPE	DIAGRAM		DESCRIPTION	ASSEMBLY-SPECIFIC NOTES
C1	SUPPORTING STRUCTURE	VAR 16mm	SUSPENDED ACOUSTIC TILE CEILING WITH SUPPORT GRID SYSTEM (DRY AREAS) NEW (WHERE NOTED) MAIN BEAM & CROSS TEE DRYWALL GRID SYSTEM SUPPPORT FRAMING AS REQUIRED C/W WIRE TIE HANGERS. EXISTING TO REMAIN SHALL BE MADE GOOD. ACOUSTIC CEILING TILE: REFER TO SPEC	NOTE: ALL CEILING GRID SYSTEM SUPPORT FRAMING, HANGERS AND TIE WIRE TO BE HOTDIPPED GALVANIZED. 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.
C3	SUPPORTING STRUCTURE	VAR 16mm	SUSPENDED GYPSUM BOARD CEILING WITH SUPPORT GRID SYSTEM OR STUD FRAMING (WET AREAS) MAIN BEAM AND CROSS TEE DRYWALL GRID SYSTEM SUPPPORT FRAMING AS REQUIRED C/W WIRE TIE SUPPORTS GB GYPSUM BOARD TO ALIGN WITH EXISTING ADJACENT	NOTE: ALL DRYWALL GRID SYSTEM SUPPORT FRAMING, HANGERS AND TIE WIRE TO BE HOT-DIPPED GALVANIZED. 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.

VAR FINISH, REFER TO FINISH PLANS

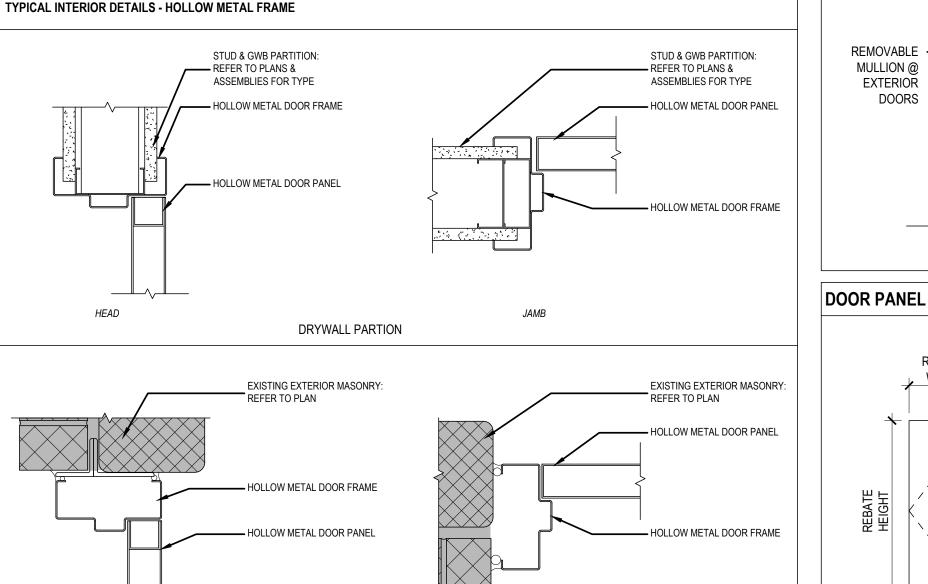
FINISH SCHEDULE									
ABBREV	. DESCRIPTION	MANUFACTURER	PRODUCT	TYPICAL LOCATION(S)	NOTES				
WALL FII	ALL FINISHES								
PT-1	PAINT			WALLS					
PT-2	PAINT - ACCENT COLOUR 01			CEILINGS					
PT-3	PAINT - ACCENT COLOUR 02			EXTERIOR DOOR					
MILLWO	MILLWORK FINISHES								
PL-1	PLASTIC LAMINATE 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 # ROOM NAME ROOM NAME ROOM # | REBATE WIDTH | REBATE HEIGHT | THICKNESS D01 | SOUTHWEST EXIT AT STAIR D | EXIT 3 | EXTERIOR ALUMINUM | CLEAR ANOD. | TG ENTRANCE DP, ED, WS 1850 ALUM/GLASS | CLEAR ANOD. 1830 2134 45 MINUTES | STORERM LS, CL, SMOKESEAL NEW PUMP/UTILITY ROOM D1406c D03 XXXx EXTERIOR (ROOF) 1090 2134 PAINT PAINT STORERM LS, WS, TH FAN ROOM DOOR НМ В

ALUM/GLASS | CLEAR ANOD.

2135

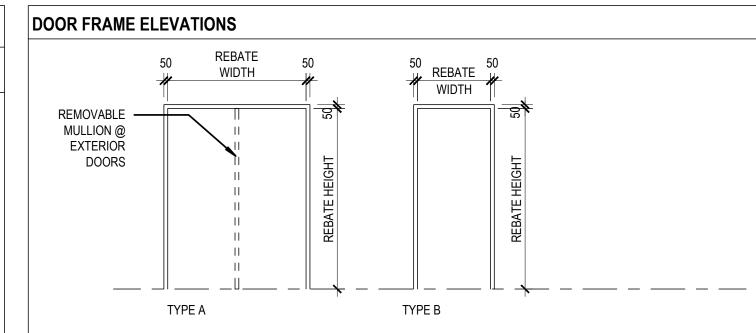
1850



EXIT 4 EXTERIOR

SOUTH EXIT AT STAIR C

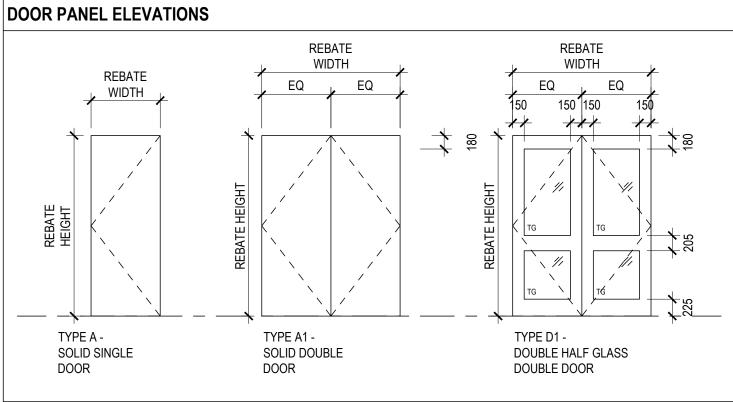
TYPICAL DOOR FRAME DETAILS



CLEAR ANOD. TG

ALUMINUM

ENTRANCE DP, ED, WS



LEGEND

ALUMINUM CLEAR ANODIZED BATT INSULATION

HEAD

- HOLLOW METAL PΙ
- POLYISO INSULATION
- PN PAINT SCW SOLID CORE WOOD
- ST STAIN
- CLEAR FINISH CF
- WD WOOD TEMPERED GLASS

HARDWARE LEGEND

- AUTOMATIC DOOR OPENER CC CONCEALED CLOSER
- COAT HOOK
- CH CL CLOSER
- CLF CLASSROOM LOCK FUNCTION
- CM CENTRE MULLION CS CARD SWIPE
- DC DOOR CONTACT

CEILING ASSEMBLY AND ASSOCIATED FIXTURES

- DOOR PULL DOOR STOP
- PANIC BAR EXIT DEVICE ELECTRIC HOLD OPEN
- ELECTRIC LATCH ESC ELECTRIC SCREAMER
- EST ELECTRIC STRIKE
- НО HOLD OPEN, MAGNETIC KP KICKPLATE, SS.
- LATCH, LOCKSET
- OFL OFFICE FUNCTION LOCKSET
- **PUSH BUTTON**
- PANIC HARDWARE PHA PANIC HARDWARE W/ ALARM OVERRIDE
- PP PUSH / PULL PRV PRIVACY LOCKSET
- WS

DOOR SIGNAGE THRESHOLD WEATHER STRIPPING

DOOR & FRAME NOTES

CONCRETE MASONRY UNIT PARTITION

- 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 ACCOMODATE 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

- REFER TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS. THE CONTRACTOR IS TO ENSURE THE CONTINUITY OF ALL FIRE SEPARATIONS AS REQUIRED.
- THE CONTRACTOR IS TO PROVIDE ULC-LISTED FIRESTOP SYSTEMS AS REQUIRED FOR ALL BUILDING SERVICE PENTRATIONS THROUGH RATED ASSEMBLIES, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- THE CONTRACTOR IS TO PROVIDE ULC-LISTED FIRESTOP SYTEMS AS REQUIRED FOR ALL RATED PARTITION ASSEMBLY CONDITIONS.
- UNLESS NOTED OTHERWISE, ALL PARTITION AND FURRING ASSEMBLIES ARE TO EXTEND
- HEIGHT LIMITS FOR NON-LOADBEARING INTERIOR AND EXTERIOR CONCRETEBLOCK MASONRY IS TO CONFORM TO OBC 9.20.10.1. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING, LINTELS, AND LATERAL SUPPORT.

FROM STRUCTURAL DECK/SLAB TO U/S OF STRUCTURAL DECK/SLAB ABOVE.

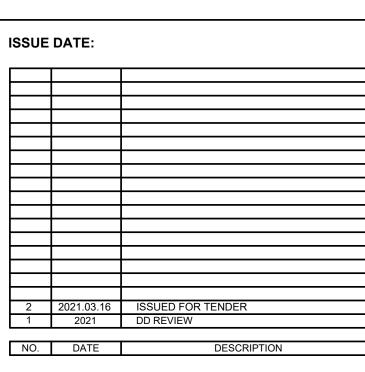
- HEIGHT LIMITS OF INTERIOR AND FURRING PARTITION STEEL STUD FRAMING IS TO CONFORM TO OBC 9.24.2.1, OR STEEL STUD SUPPLIER HEIGHT TABLES.
- THE CONTRACTOR IS TO PROVIDE ENGINEERED SHOP DRAWINGS, SIGNED AND SEALED BY A P.ENG LICENSED WITHIN THE PROVICE OF ONTARIO FOR ALL STEEL STUD FRAMING DENOTED AS "WIND-BEARING" OR "STRUCTURAL".
- 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.
- PROVIDE CONT. ACOUSTICAL SEALANT (BOTH SIDES) AT TOP AND BOTTOMOF ALL INTERIOR STUD AND GypSUM BOARD PARTITIONS. PROVIDE ULC-LISTED SEALANT AT ALL RATED PARTITIONS AS REQUIRED, REFER TO FIRE SEPARATION DRAWINGS.
- 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.
- UNLESS NOTED OTHERWISE, ASSEMBLIES ABOVE DOORS, WINDOWS, EXTERIOR OPENINGS AND INTERIOR SCREENS IS TO BE THE SAME AS THE TYPE DENOTED ON EITHER SIDE.
- ALL R AND RSI VALUES SHOWN ARE NOMINAL. REFER TO PROJECT MANUAL FOR FULL LISTING OF INSULATION TYPES AND WEATHER BARRIER TYPES.

partners

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PROJECT:

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

DRAWING TITLE:

ASSEMBLIES & DOOR SCHEDULE

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

DRAWING NO:

TAGS DRAWING TAGS ASSEN

DRAWING TAGS ASSEMBLY TAGS TAGS DETAIL NUMBER WALL ASSEMBLY TAG 101 DOOR TAG DRAWING SHEET NUMBER SCREEN NUMBER TAG SC **SECTION NUMBER** (REFER TO SCREEN SCHEDULE) **ROOF ASSEMBLY TAG** DRAWING SHEET NUMBER WINDOW UNIT TAG W10 FLOOR ASSEMBLY TAG (REFER TO WINDOW SCHEDULE) EXTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER CL1 CURTAIN WALL UNIT TAG **CEILING TAG** CW (REFER TO WINDOW SCHEDULE) INTERIOR ELEVATION NUMBER (REFER TO ASSEMBLIES SCHEDULES) DRAWING SHEET NUMBER MATERIAL FINISH TAG (REFER TO FINISH SCHEDULE) 20 R @ 100mm STAIR TAG **GRID BUBBLE** (X SPOT ELEVATION (ABOVE FINISH FLOOR) 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 OFALL 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

FD

FLOOR DRAIN

ABBREVIATIONS MAY OR MAY NOT INCLUDE PERIOD PUNCTUATION. ABBREVIATIONS APPLY TO ARCHITECTURAL DOCUMENTS ONLY.

@ &	AT AND	FE FF	FIRE EXTINGUISHER FLOOR FINISH	REQ REV	REQUIRED REVERSE
AB	AIR BARRIER	FFL	FINISHED FLOOR LEVEL	RF	RESISLIENT 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
				SIM	
BTLS	BLUETOOTH LOCKSET	H/O	HOLD OPEN		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	<u> </u>	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	J-5	OF CANADA
	DOWN			UNO	UNLESS NOTED OTHERWISE
DN		OTA	OPEN TO ABOVE		
DW	DISHWASHER	ОТВ	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		W	
			PRIVACY LOCKET		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
	FLASHBOLT	RCP	REFLECTED CEILING PLAN	WS	WEATHERSTRIP
FB	ENHANCES ARE THE ENGLISH		D00=55:::	1.4.4	14/15/15 01/1/01/15 ==
FCL FD	FINISHED CEILING ELEVATION FLOOR DRAIN	RD RF-INF	ROOF DRAIN RE-INFORCED	WSH WTB	WINDOW SHADE WHITE BOARD

RE-INFORCED

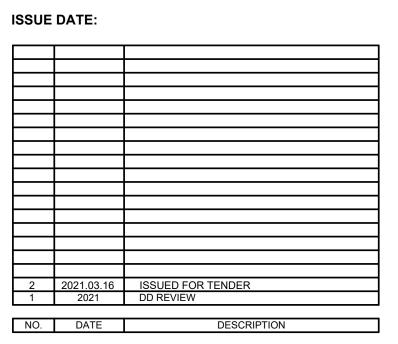
RE-INF



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DO NOT SCALE DRAWINGS



PROJECT:

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

DRAWING TITLE:

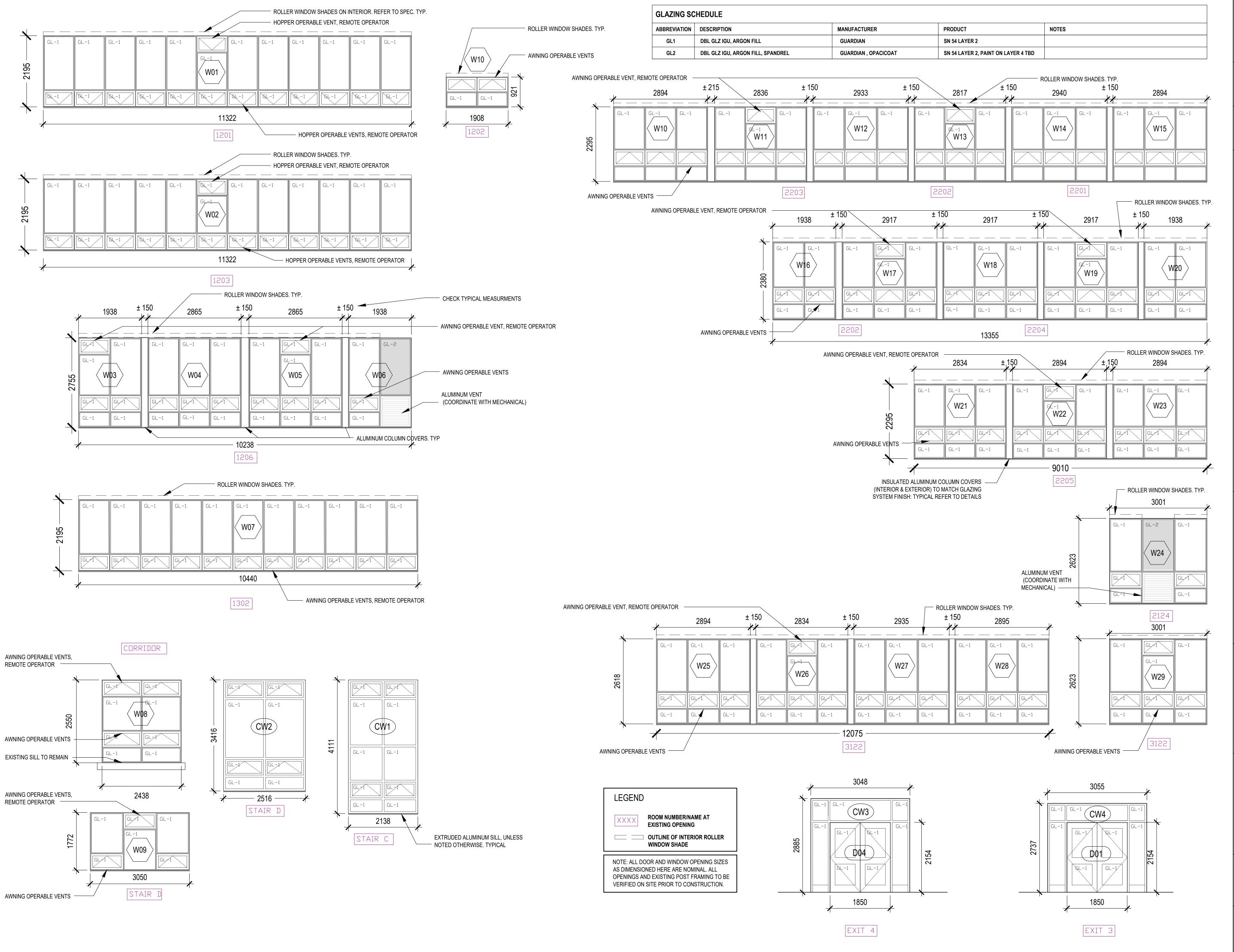
ANNOTATION LEGEND, ABBREVIATIONS, & GENERAL NOTES

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

DRAWING NO:

WHITE BOARD

WTB

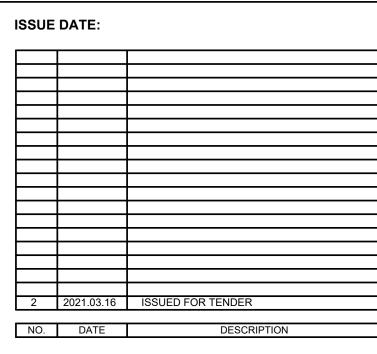




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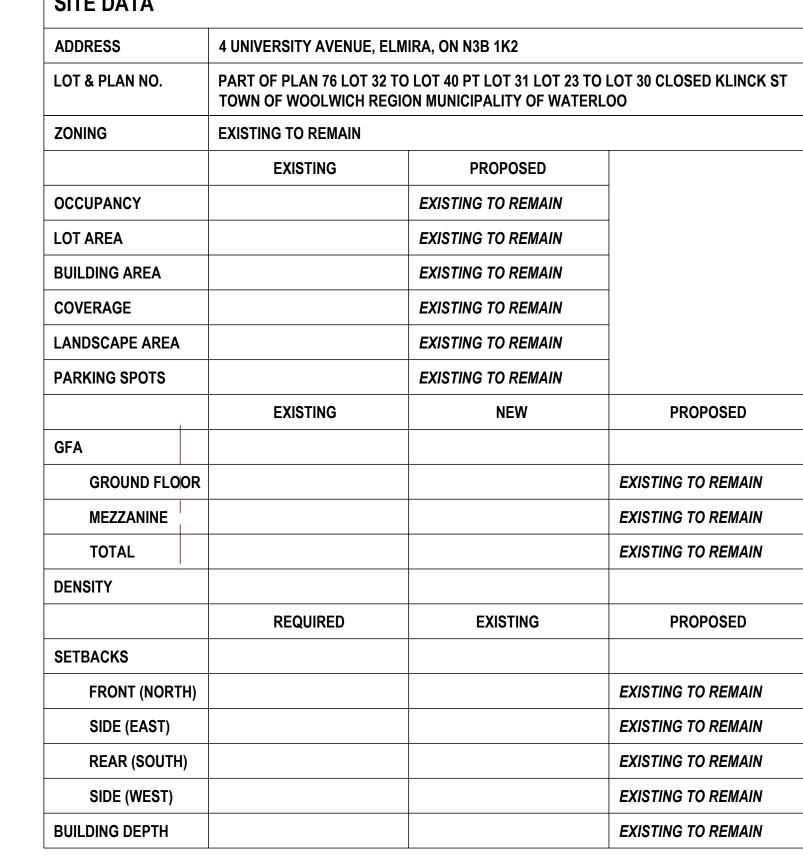
Elmira District
Secondary
School – Window, Roof,
HVAC & Sanitary
Upgrades

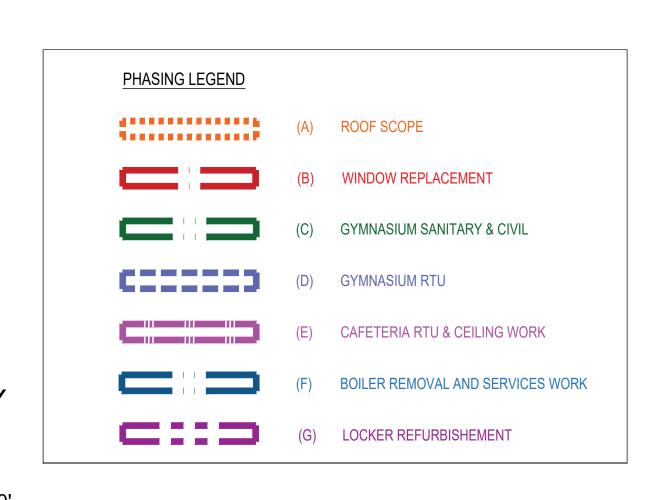
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WINDOW SCHEDULE & GLAZING SCHEDULE

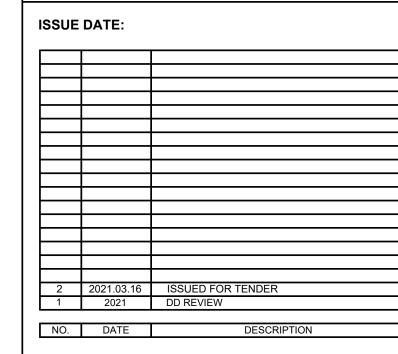
PROJECT NO: 20931
SCALE: 1:50
DRAWN BY: XX
REVIEWED BY: XX

DRAWING NO:





SITE DATA



partners

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PROJECT:

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

DRAWING TITLE:

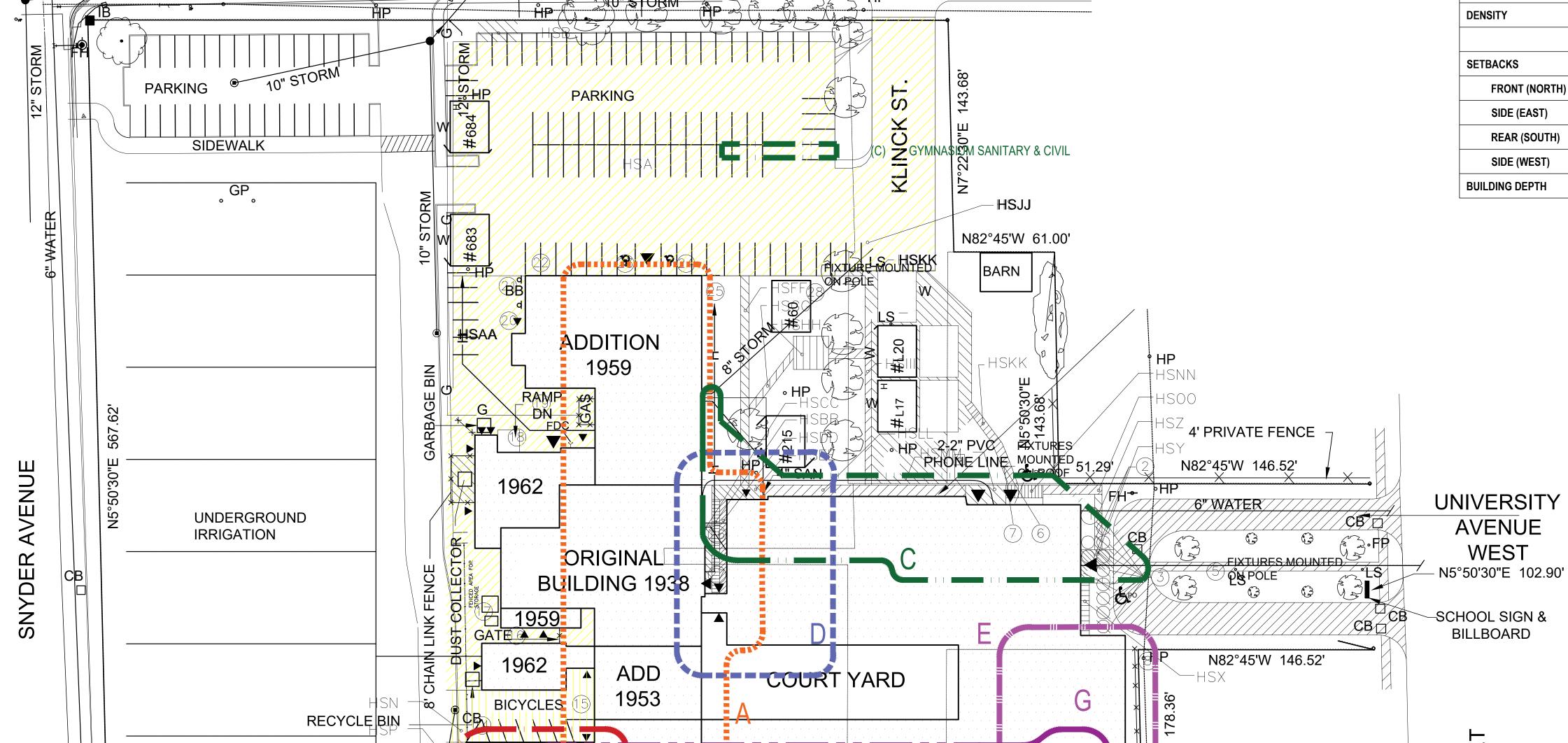
SITE PLAN & SITE DATA

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

PROJECT NORTH:

DRAWING NO:

A011



ADD'N 1964

182°45'W 641.13'

-ADDITION 1962

8" STORM

6" SANTTARY

ADDITION 1966

AUTO SHOP HSR

STM GARBAGE
BINIC

RESIDENTIAL

SECOND STREET

EXHAUST

AIR GRILLE

GAS

BRUBACHER STREET

N82°45'W 532.68'

WATER

GP

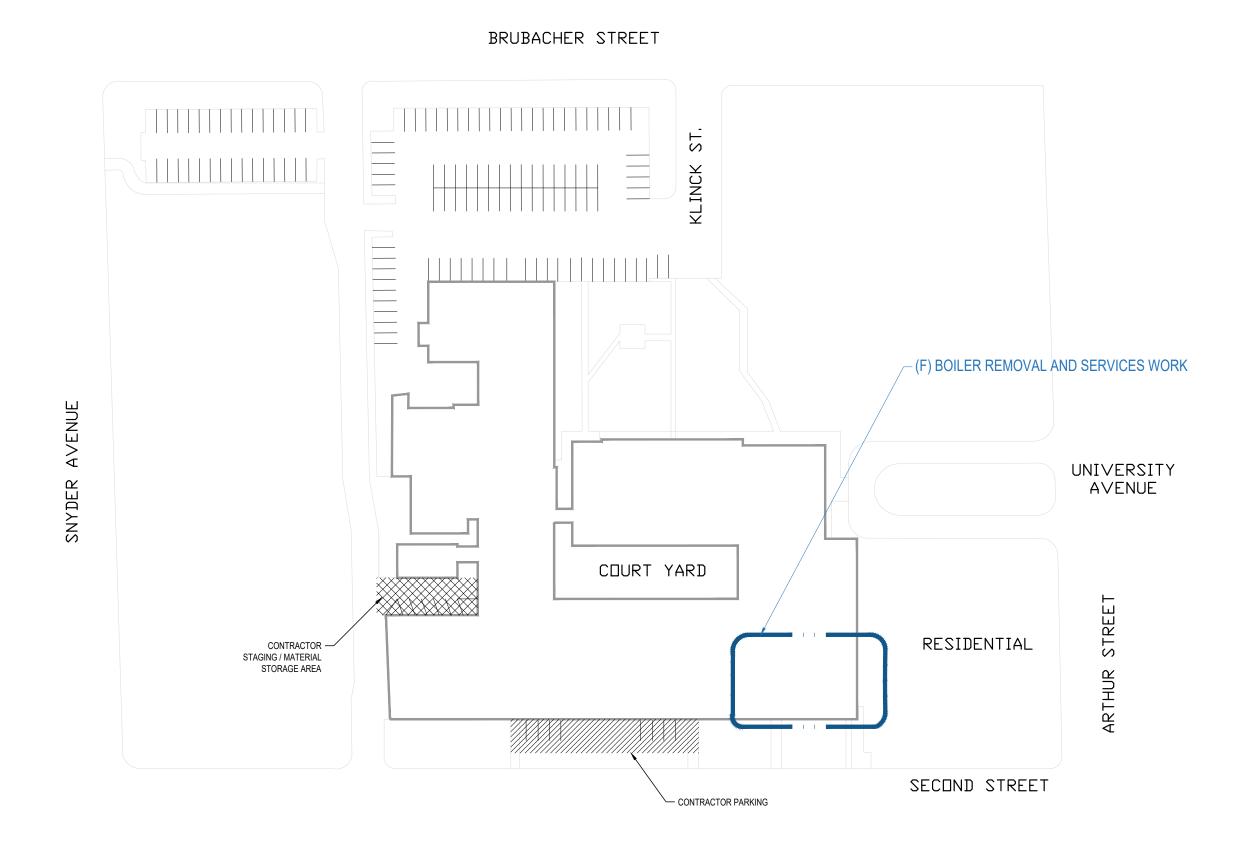
6" WATER

8" SAN

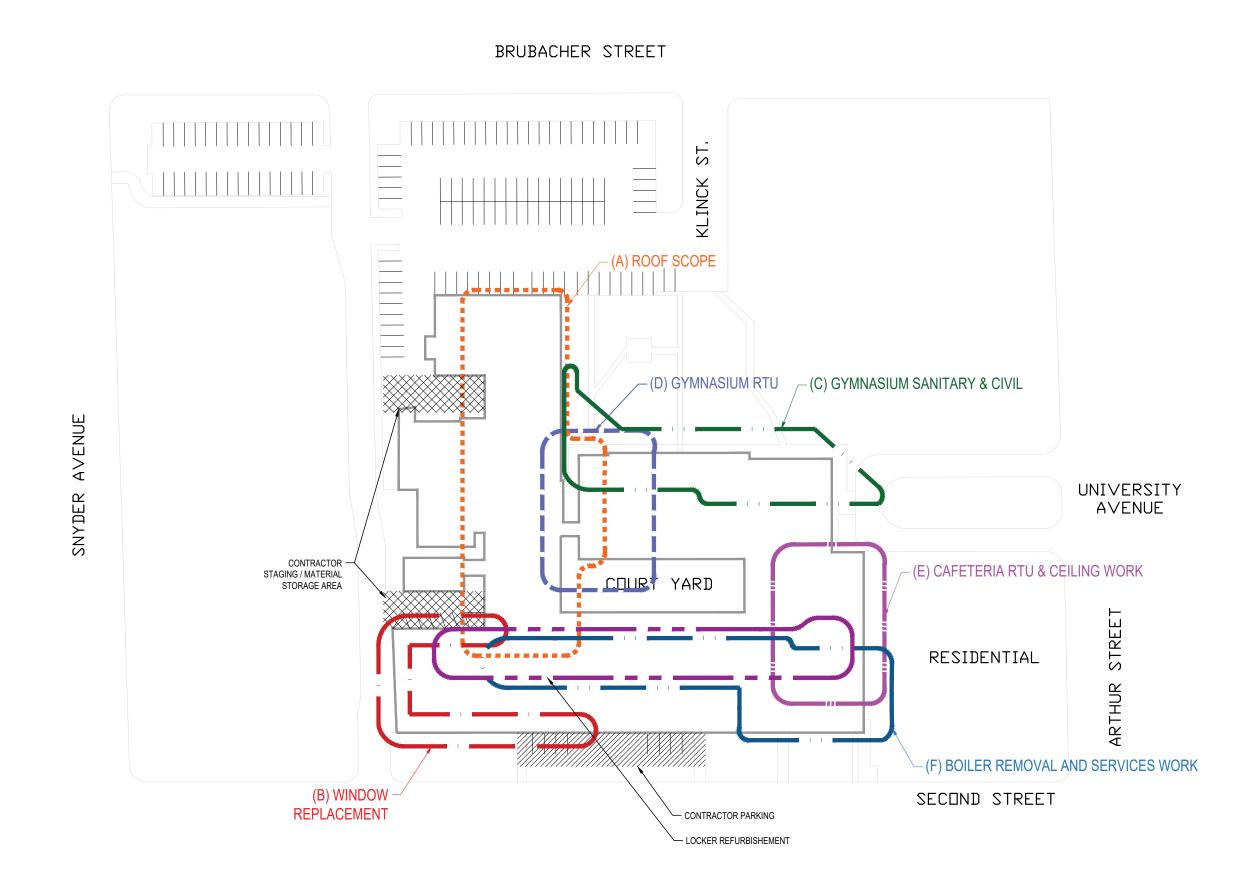
REGIONAL

MONITORING

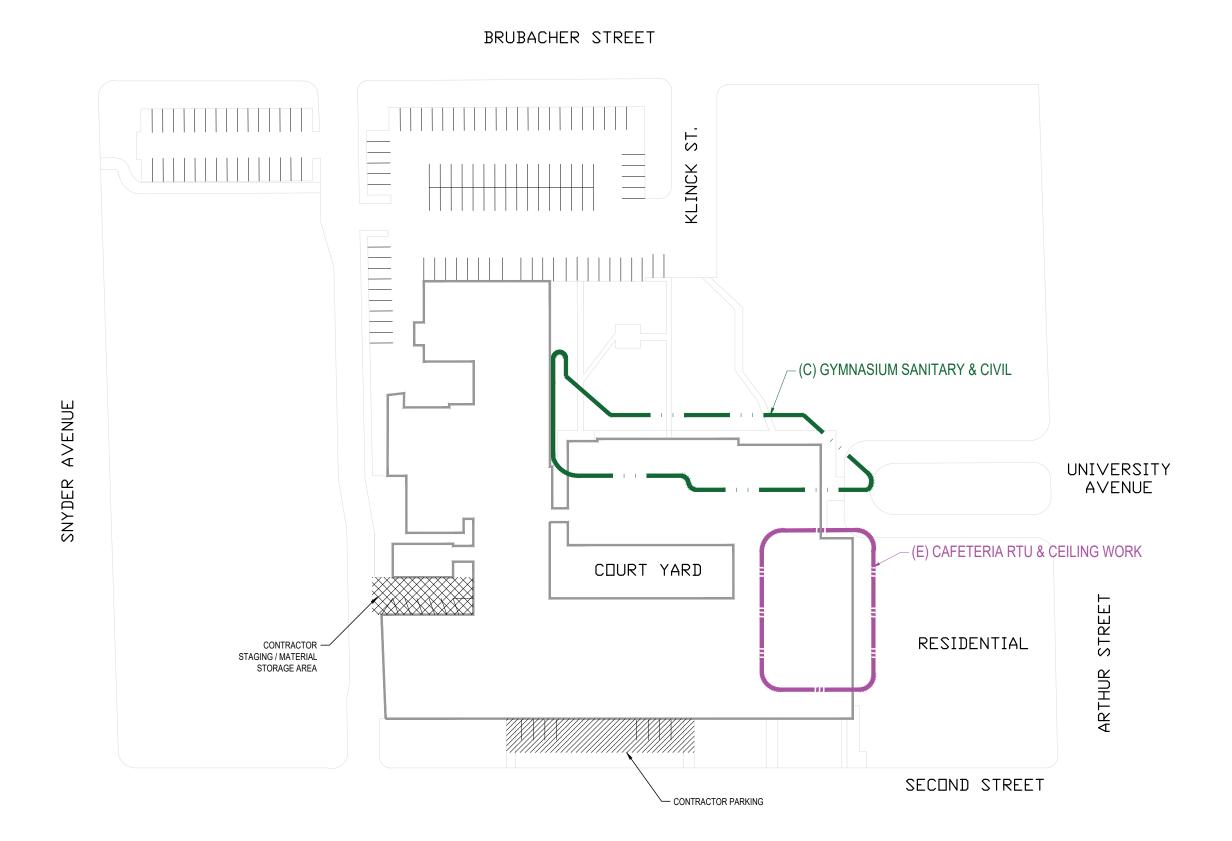
WELL



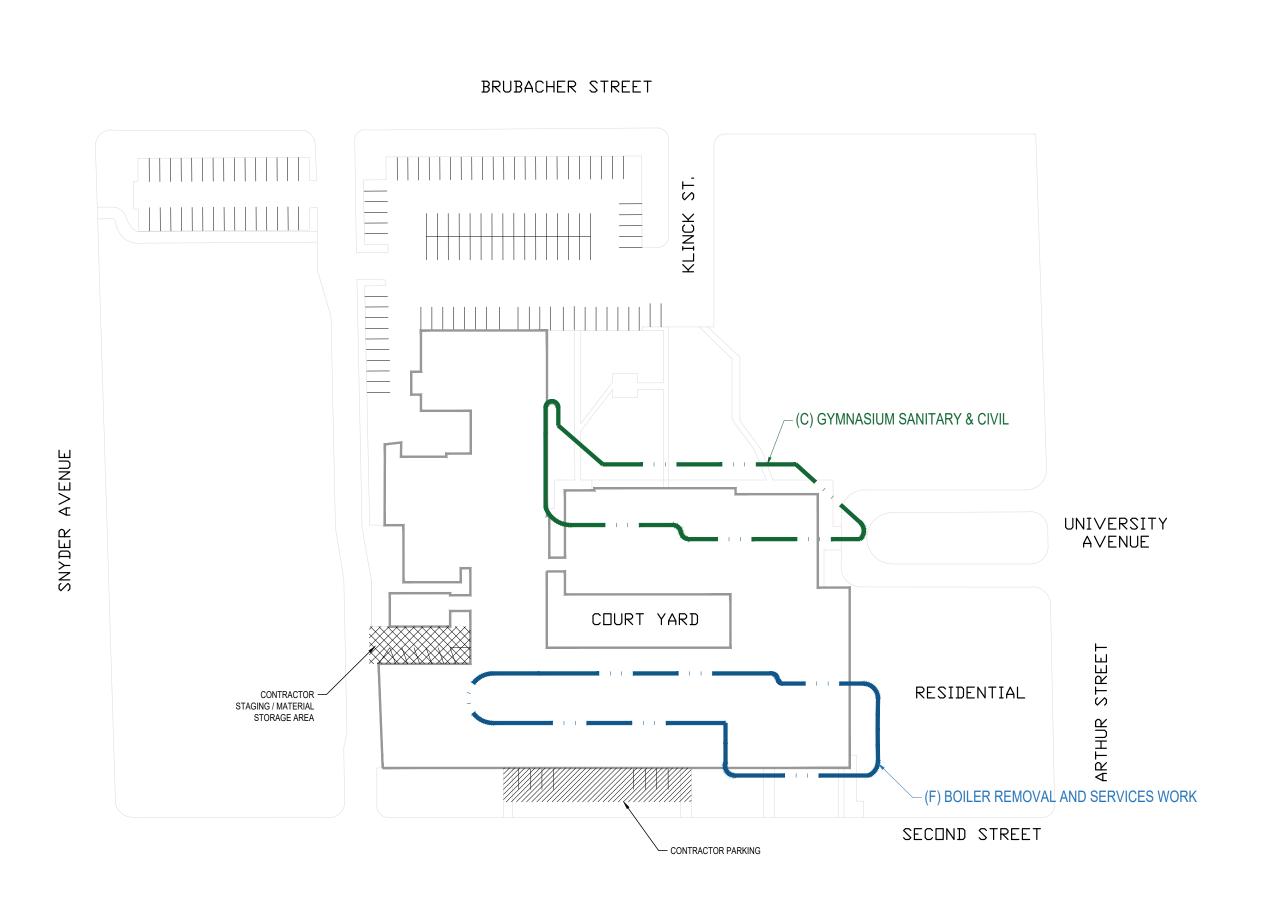
1 APRIL PHASE A012 1: 1000



3 SUMMER PHASE A012 1:1000



2 JUNE PHASE A012 1:1000



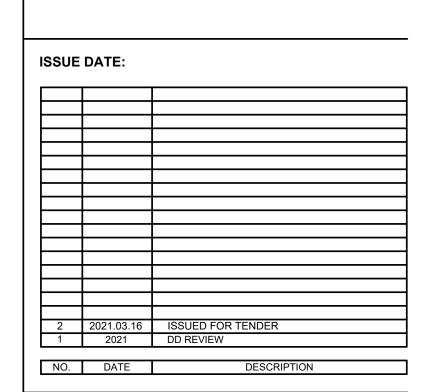
4 SEPTEMBER PHASE A012 1:1000



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PROJECT:

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

DRAWING TITLE:

SITE DETAILS PHASING PLAN

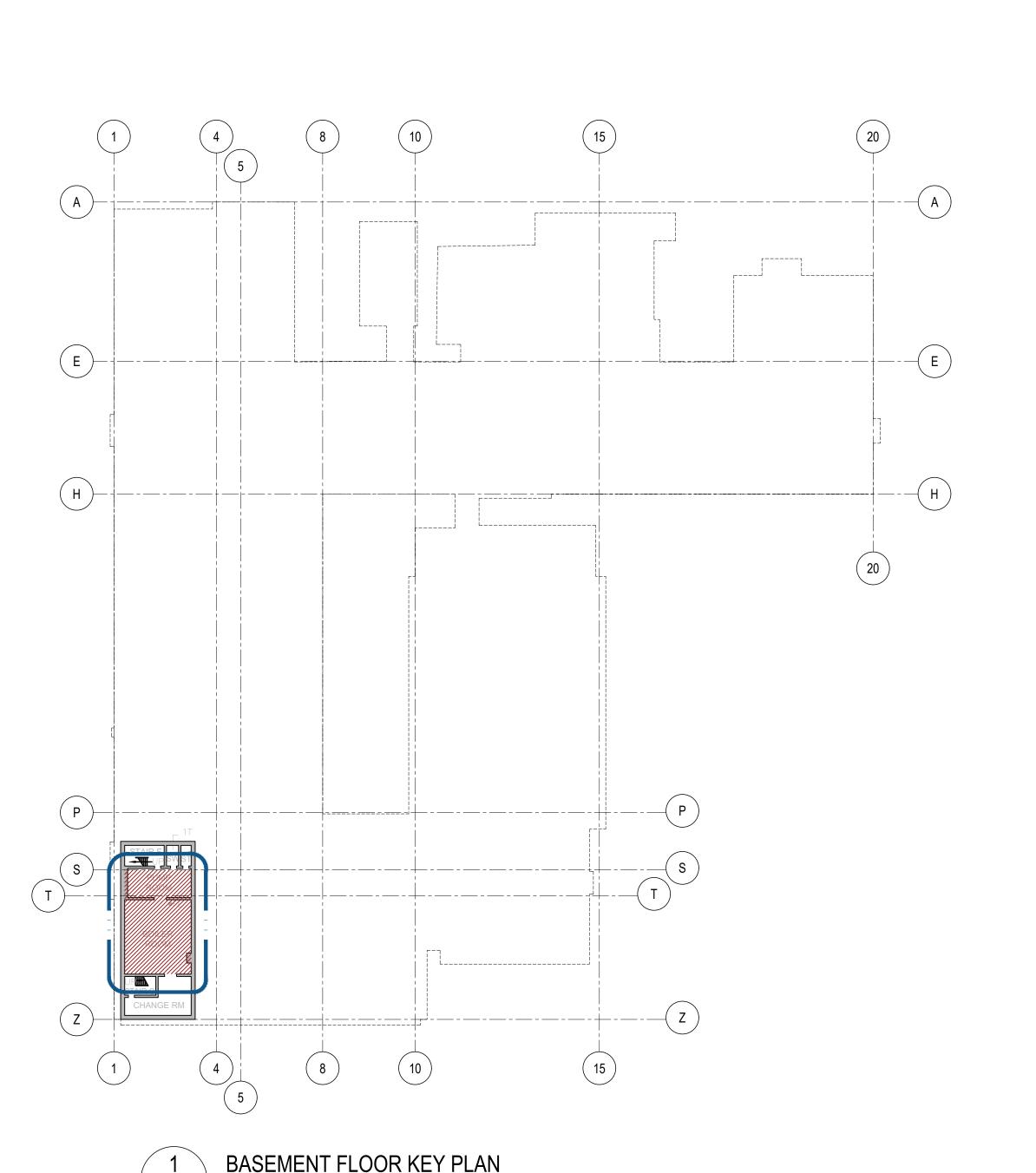
PROJECT NO: 20931 PROJECT NORTH:

SCALE: AS NOTED

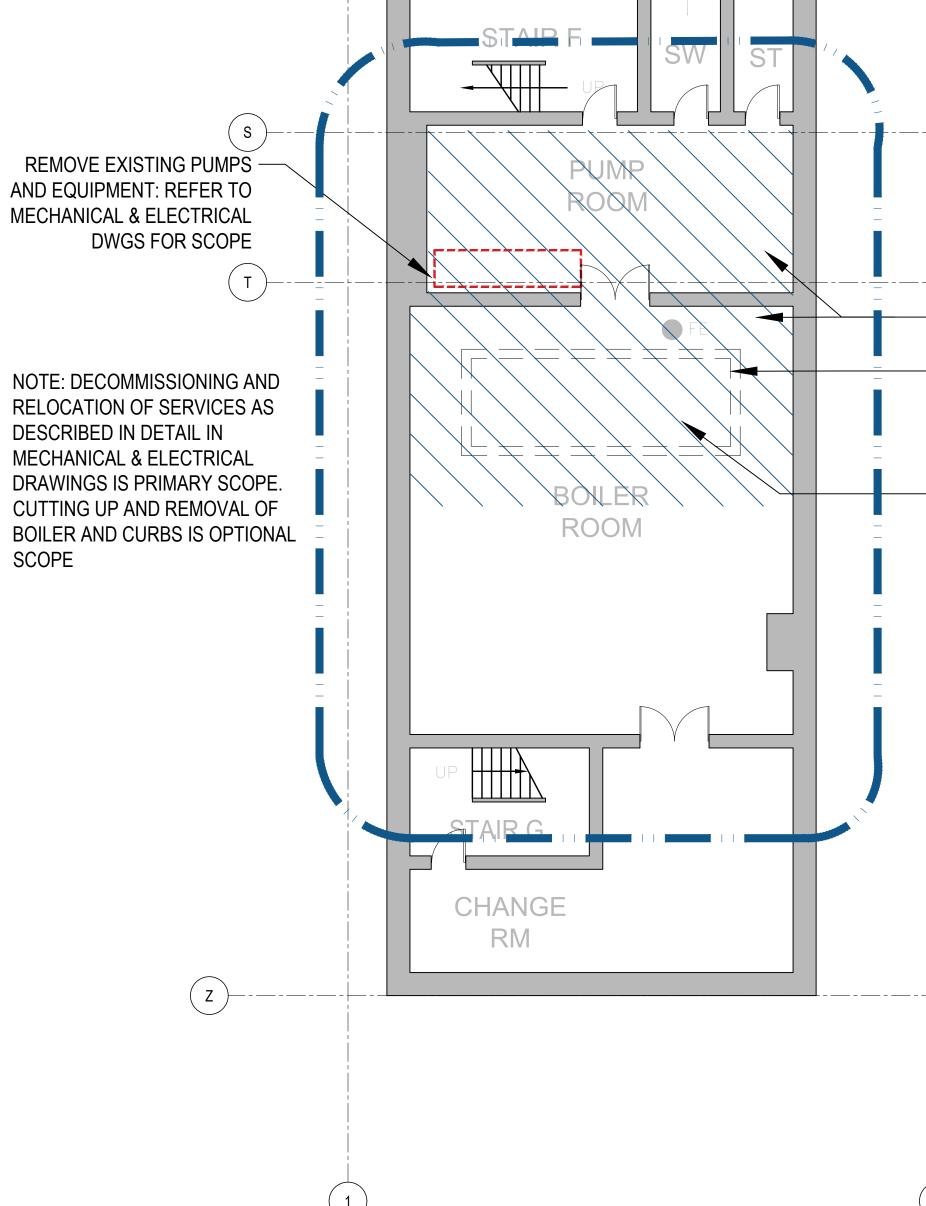
DRAWN BY: JG

REVIEWED BY: JC-B

DRAWING NO:

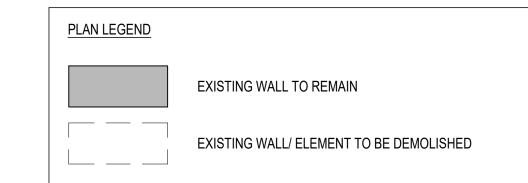


1:500



BASEMENT FLOOR PARTIAL PLAN: BOILER ROOM

A021 1:100



GENERAL DEMOLITION NOTES:

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MECH & ELEC SCOPE

REMOVE EXISTING

CONCRETE CURBS.

MAKE GOOD FLOOR

BOILER REMOVAL:

REFER TO MECH &

ELEC

AREA IN BLUE

- 12. REMOVE & DISPOSE OF ALL ABANDONED SERVICES FIXTURES, EQUIPMENT, CONDUITS, PIPE, WIRING, ETC. (INTERIOR AND EXTERIOR).
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PRIOR TO COMMENCING WORK, READ 2017 ASBESTOS AUDIT UPDATE PREPARED BY MTE MARCH 15, 2017

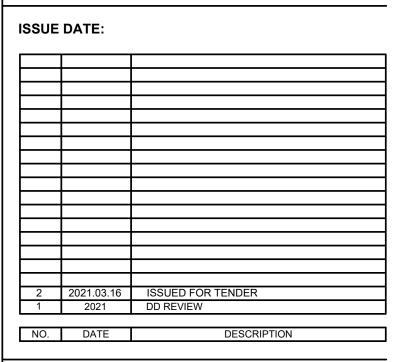
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DO NOT SCALE DRAWINGS



PROJECT:

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

DRAWING TITLE:

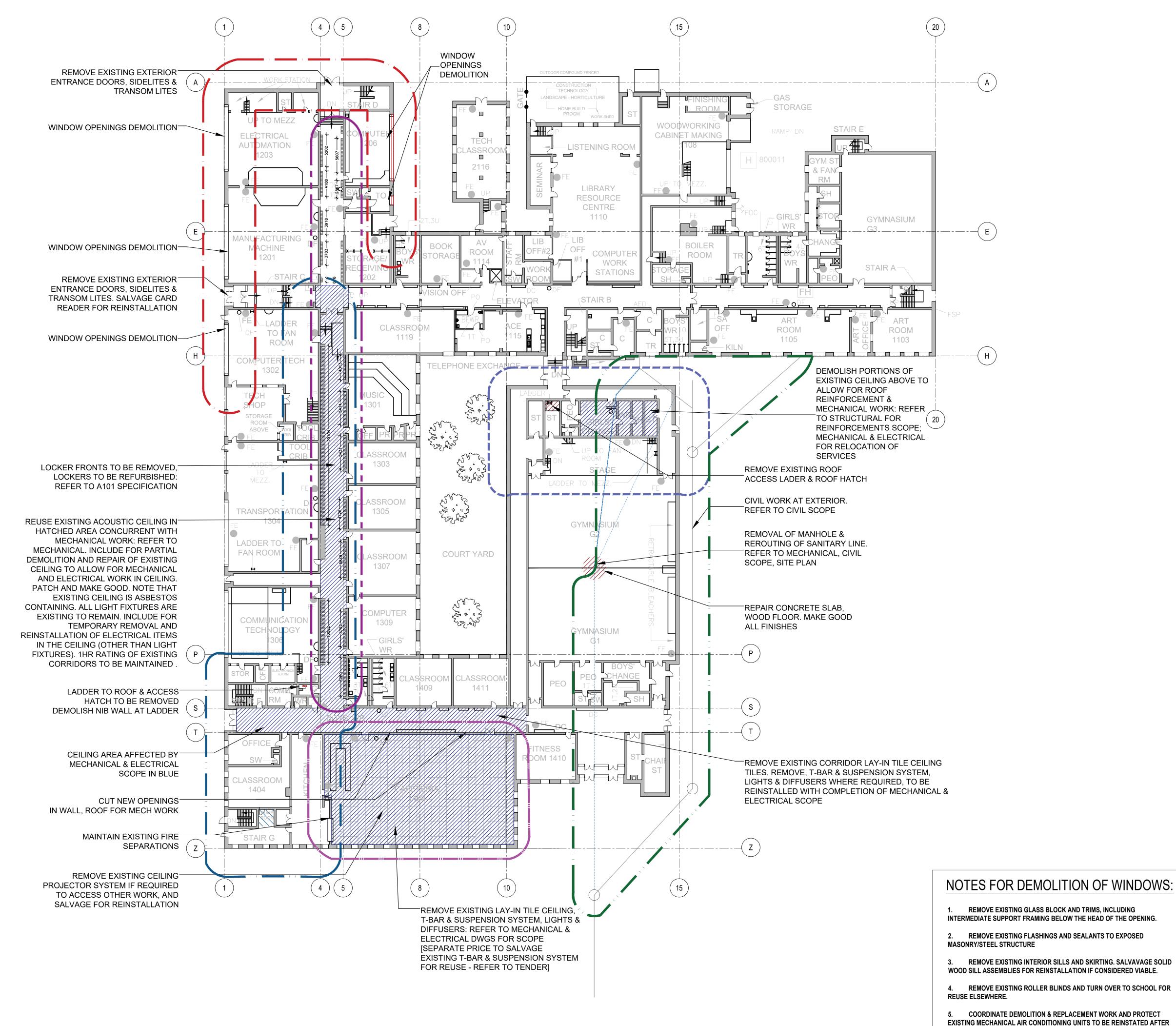
BASEMENT FLOOR PLAN DEMOLITION

PROJECT NO: 20931
SCALE: AS NOTED
DRAWN BY: JG

REVIEWED BY: JC-B

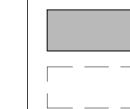
PROJECT NORTH:

DRAWING NO:



GROUND FLOOR DEMOLITION PLAN 1:300

PLAN LEGEND



EXISTING WALL TO REMAIN

EXISTING WALL/ ELEMENT TO BE DEMOLISHED

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WINDOW REPLACEMENT.

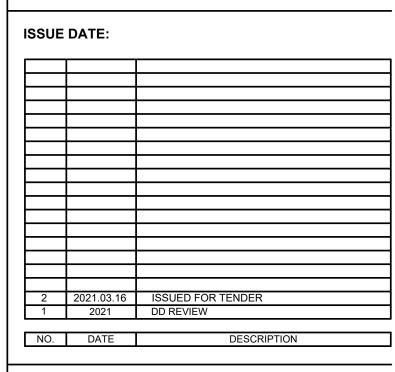
REMAIN UNLESS NOTED OTHERWISE.

6. EXISTING STEEL FRAMING AT TOP OF WINDOW OPENINGS IS TO



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PROJECT:

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

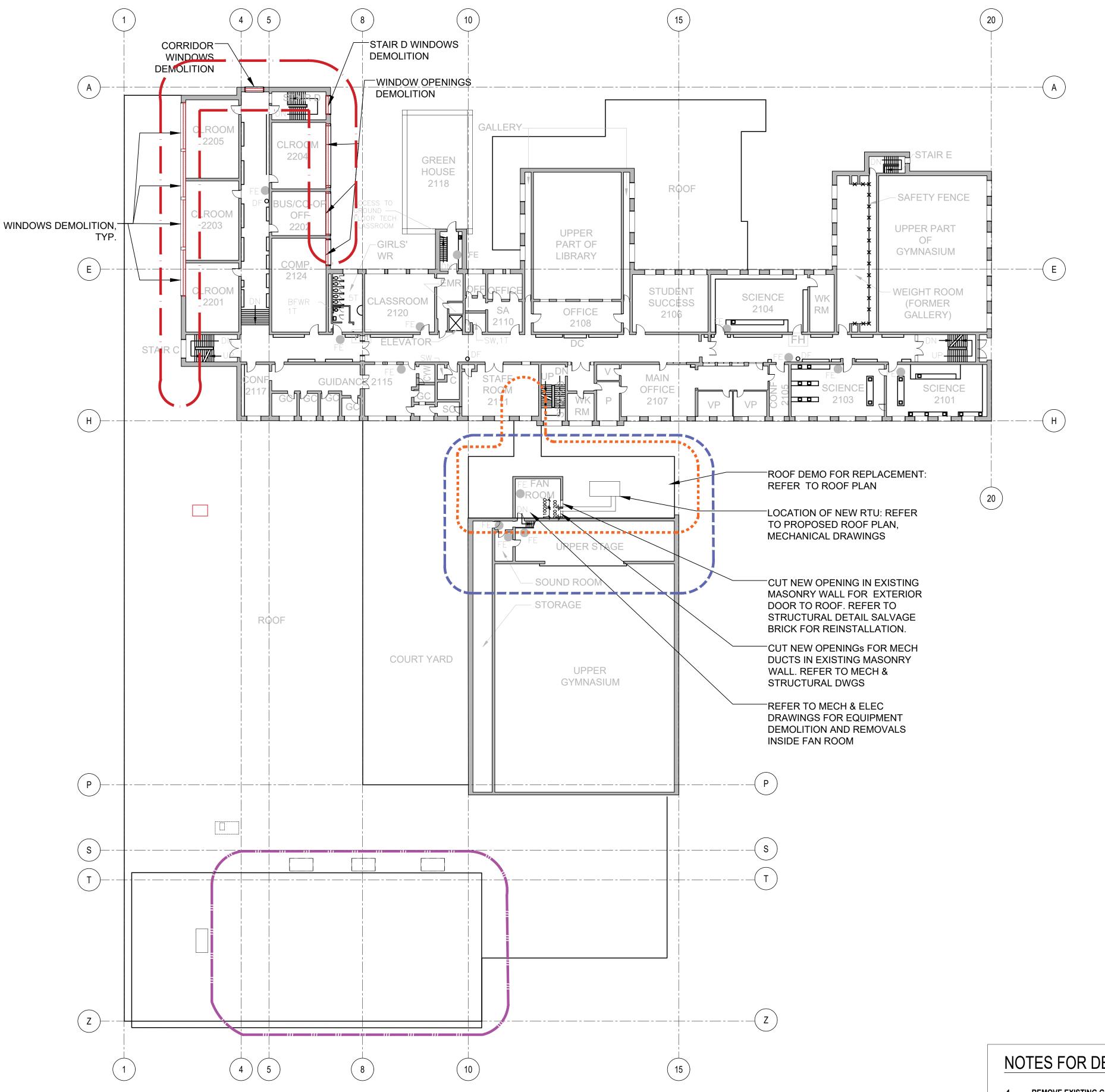
DRAWING TITLE:

GROUND FLOOR PLAN DEMOLITION

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

PROJECT NORTH:

DRAWING NO:



NOTES FOR DEMOLITION OF WINDOWS:

- 1. REMOVE EXISTING GLASS BLOCK AND TRIMS, INCLUDING INTERMEDIATE SUPPORT FRAMING BELOW THE HEAD OF THE OPENING.
- 2. REMOVE EXISTING FLASHINGS AND SEALANTS TO EXPOSED MASONRY/STEEL STRUCTURE
- 3. REMOVE EXISTING INTERIOR SILLS AND SKIRTING. SALVAVAGE SOLID WOOD SILL ASSEMBLIES FOR REINSTALLATION IF CONSIDERED VIABLE.
- WOOD SILE 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.





EXISTING WALL/ ELEMENT TO BE DEMOLISHED

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- 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
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- 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.

NOTES ON DESIGNATED SUBSTANCES:

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

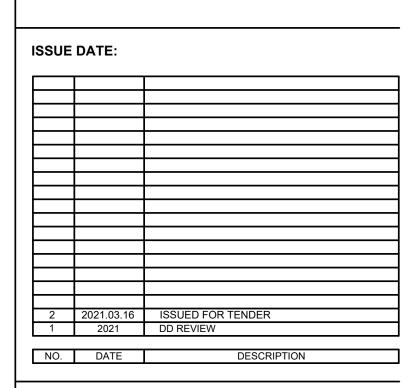
- 1. THE SCOPE OF WORK <u>DOES NOT</u> ENTAIL THE REMOVAL OF DESIGNATED SUBSTANCES.
- 2. IN NO WAY SHOULD THE CONTRACTOR ASSUME IT OTHERWISE TO BE 100% FREE OF DESIGNATED SUBSTANCES AND AS SUCH THE CONTRACTOR SHOULD TAKE EVERY PRECAUTION WHEN WORKING IN THE BUILDING.
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DO NOT SCALE DRAWINGS



PROJECT:

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

DRAWING TITLE:

SECOND FLOOR PLAN DEMOLITION

PROJECT NO: 20931

SCALE: AS NOTED

DRAWN BY: JG

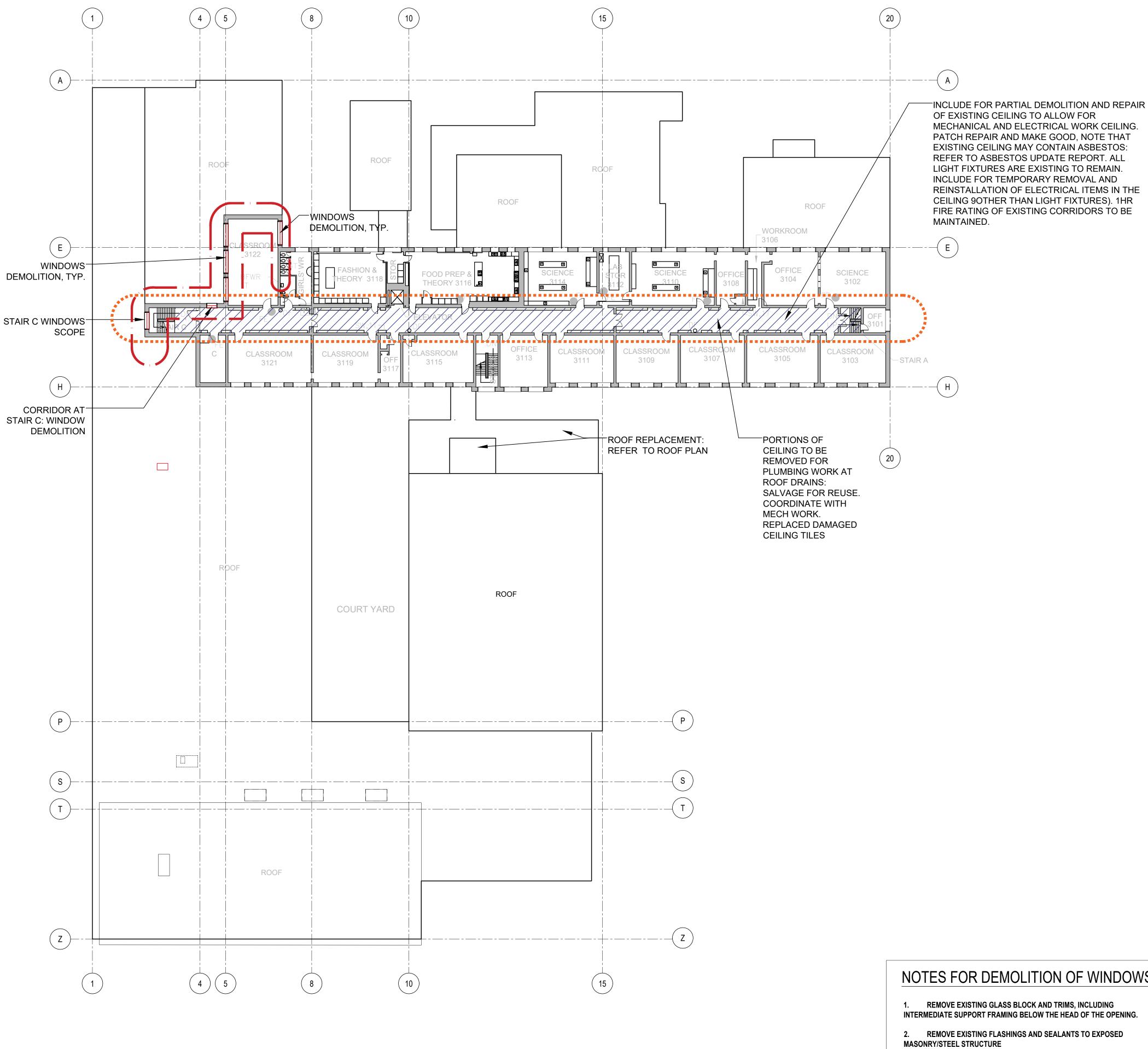
REVIEWED BY: JC-B

PROJECT NORTH:

DRAWING NO:

Λ**Ω**22

1 SECOND FLOOR DEMOLITION PLAN 1:300



THIRD FLOOR DEMOLITION PLAN

1:300

NOTES FOR DEMOLITION OF WINDOWS:

- 1. REMOVE EXISTING GLASS BLOCK AND TRIMS, INCLUDING
- 2. REMOVE EXISTING FLASHINGS AND SEALANTS TO EXPOSED
- 3. REMOVE EXISTING INTERIOR SILLS AND SKIRTING. SALVAVAGE 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.



EXISTING WALL/ ELEMENT TO BE DEMOLISHED

GENERAL DEMOLITION NOTES:

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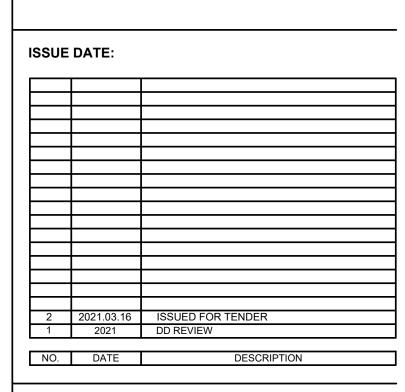
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DO NOT SCALE DRAWINGS



PROJECT:

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

DRAWING TITLE:

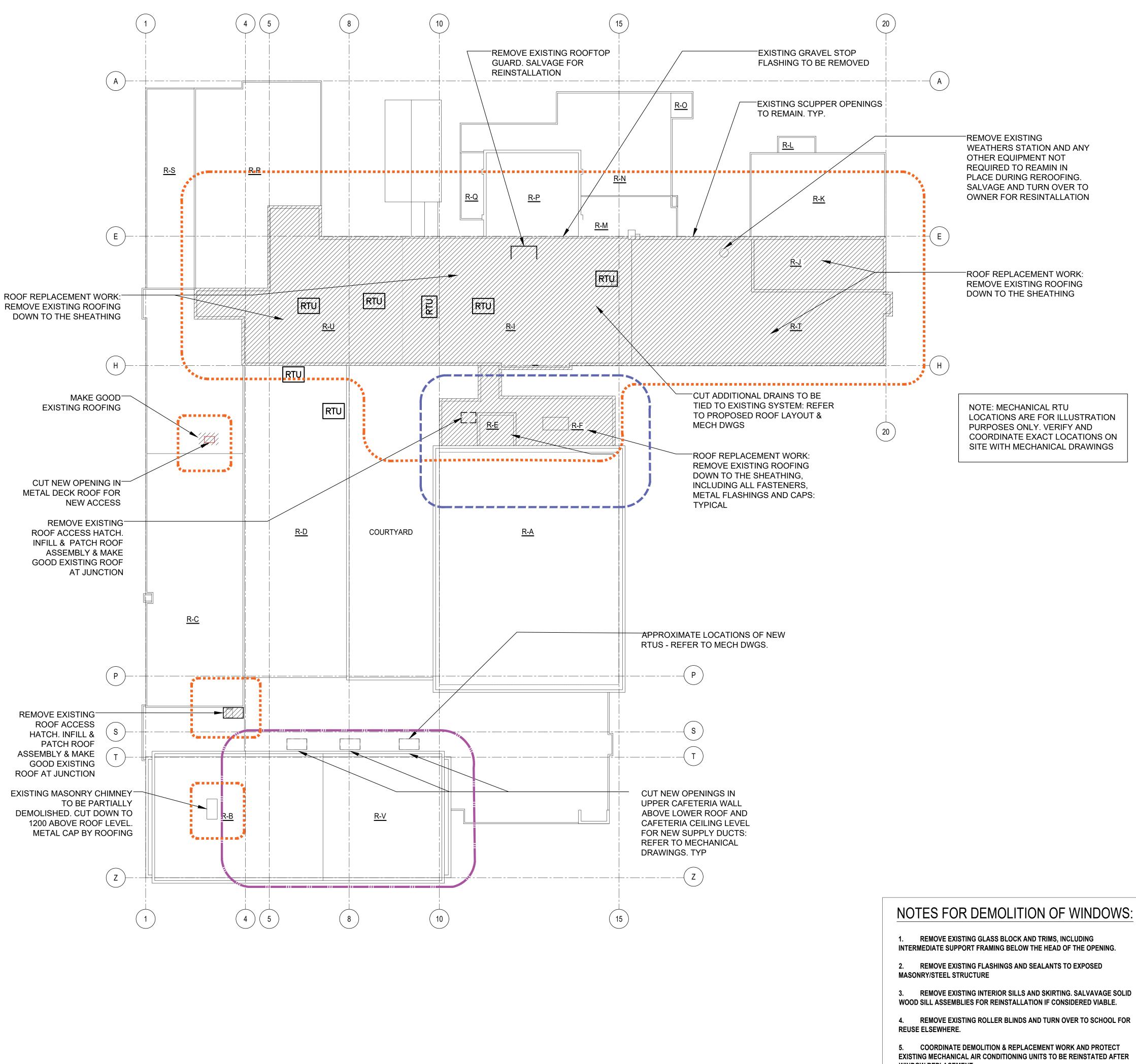
THIRD FLOOR PLAN **DEMOLITION**

PROJECT NO: 20931 SCALE: **AS NOTED** DRAWN BY:

PROJECT NORTH:

DRAWING NO:

REVIEWED BY: JC-B



ROOF DEMOLITION PLAN

1:300

- 3. REMOVE EXISTING INTERIOR SILLS AND SKIRTING. SALVAVAGE SOLID

- 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.

PLAN LEGEND



EXISTING WALL TO REMAIN

EXISTING WALL/ ELEMENT TO BE DEMOLISHED

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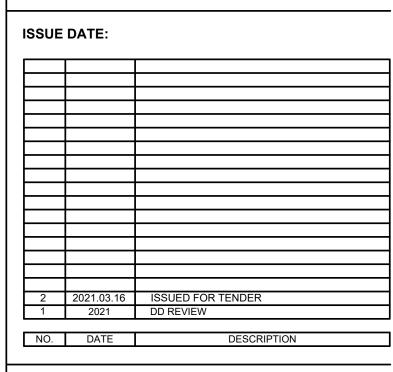
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DO NOT SCALE DRAWINGS



PROJECT:

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

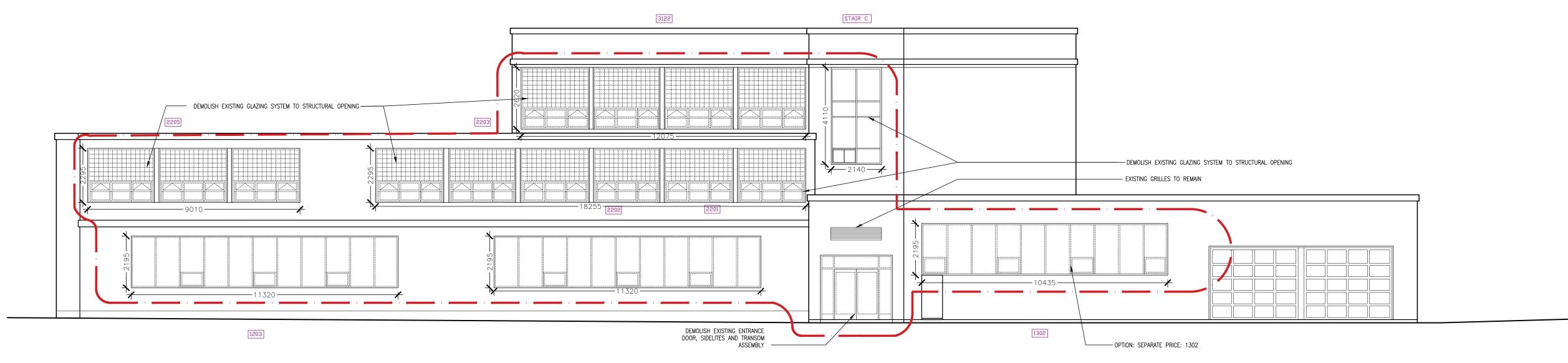
DRAWING TITLE:

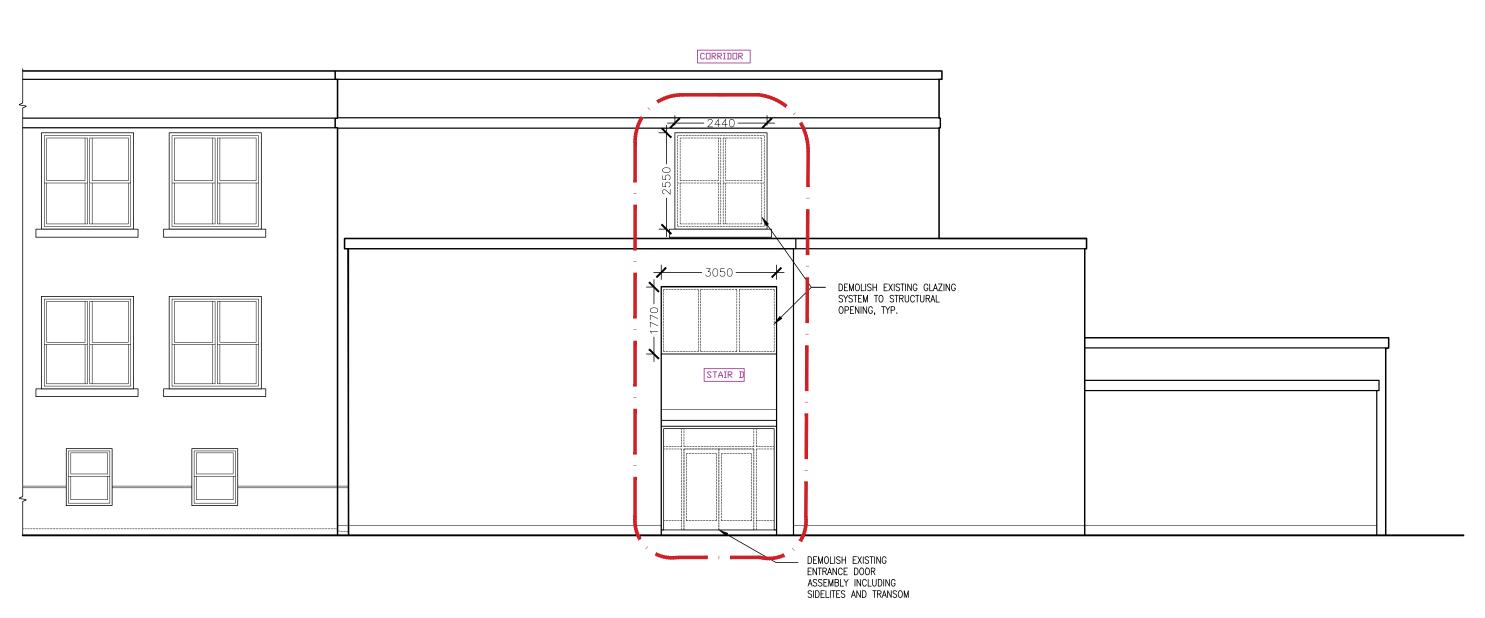
ROOF PLAN DEMOLITION

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

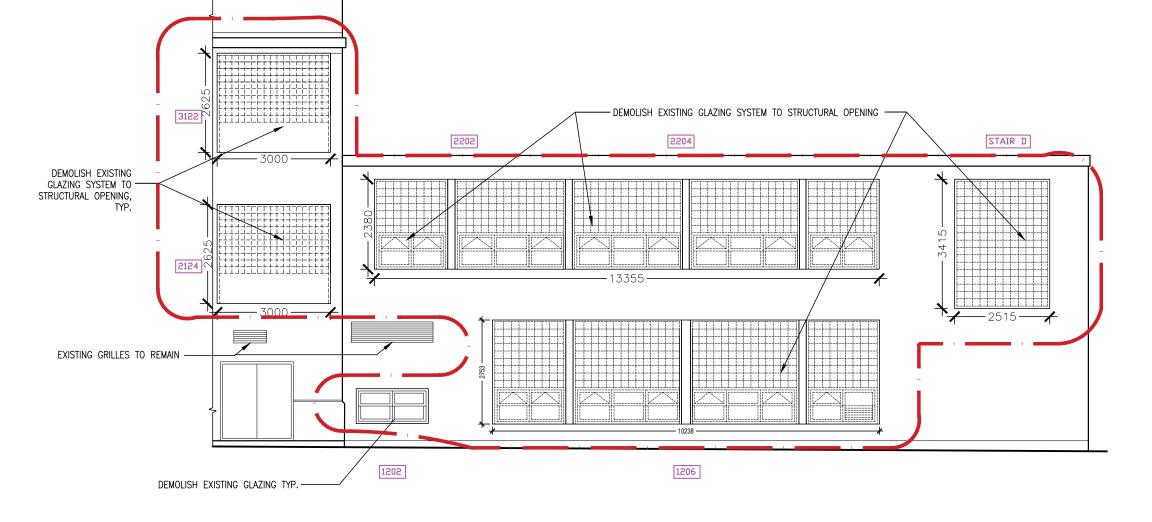
PROJECT NORTH:

DRAWING NO:





SOUTH ELEVATION



3 EAST ELEVATION A201 1:100

2 WEST ELEVATION

XXXX ROOM NUMBER AT EXISTING OPNING SCOPE

NOTES FOR DEMOLITION OF WINDOWS:

- 1. REMOVE EXISTING GLASS BLOCK AND TRIMS, INCLUDING INTERMEDIATE SUPPORT FRAMING BELOW THE HEAD OF THE OPENING.
- 2. REMOVE EXISTING FLASHINGS AND SEALANTS TO EXPOSED MASONRY/STEEL STRUCTURE
- 3. REMOVE EXISTING INTERIOR SILLS AND SKIRTING. SALVAVAGE SOLID WOOD SILL ASSEMBLIES FOR REINSTALLATION IF CONSIDERED VIABLE.
- 4. REMOVE EXISTING ROLLER BLINDS AND TURN OVER TO SCHOOL FOR REUSE ELSEWHERE.
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ISSUE	DATE:	
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2	2021.03.16	ISSUED FOR TENDER
1	2021	DD REVIEW
		DECORPTION.
NO.	DATE	DESCRIPTION

PROJECT:

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

DRAWING TITLE:

PARTIAL EXTERIOR ELEVATIONS DEMOLITION

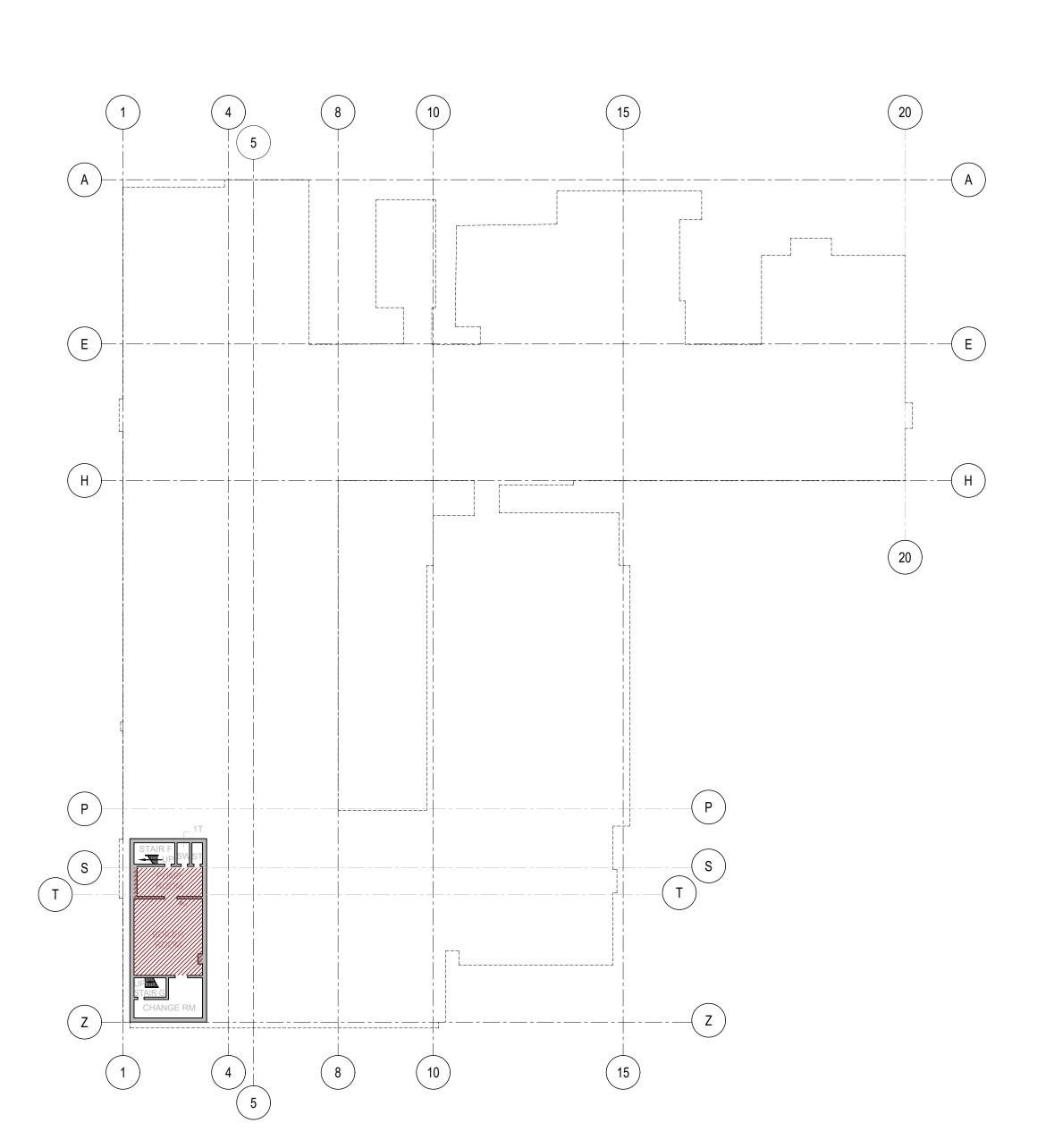
PROJECT NO: 20931

SCALE: AS NOTED

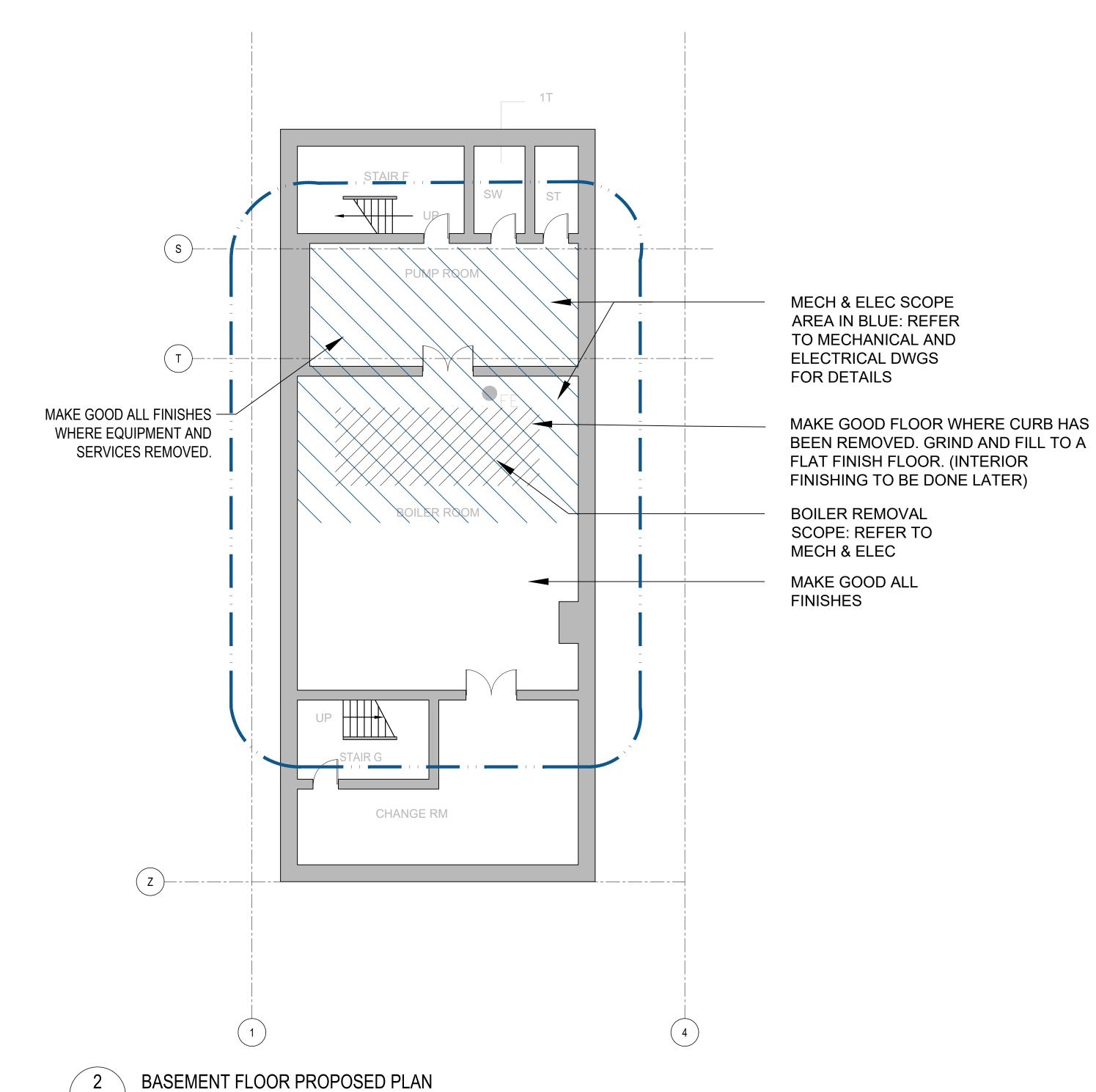
DRAWN BY: JG

REVIEWED BY: JC-B

DRAWING NO:







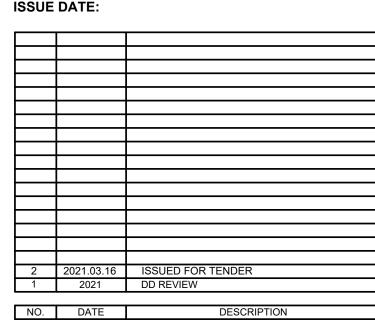
A100 1:100



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ISSUE DATE:



PROJECT:

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

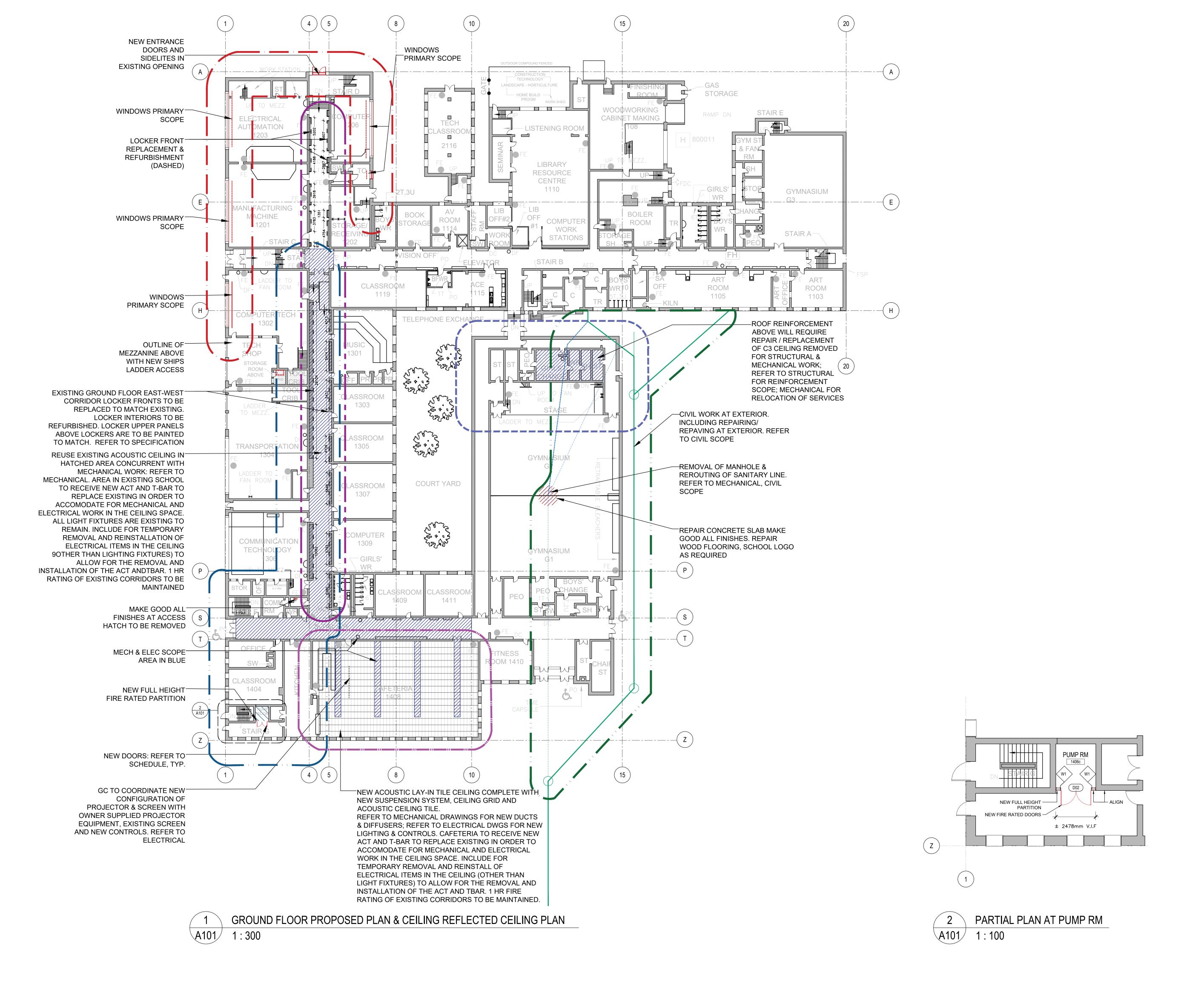
DRAWING TITLE:

BASEMENT FLOOR PLAN PROPOSED

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

PROJECT NORTH:

DRAWING NO:

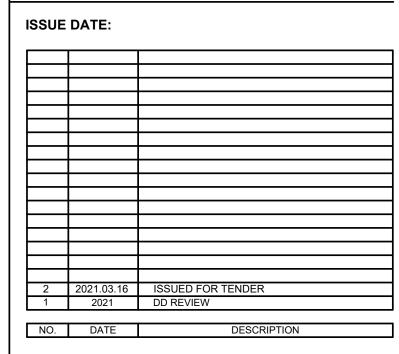




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PROJECT:

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

DRAWING TITLE:

GROUND FLOOR PLAN PROPOSED

PROJECT NO: 20931

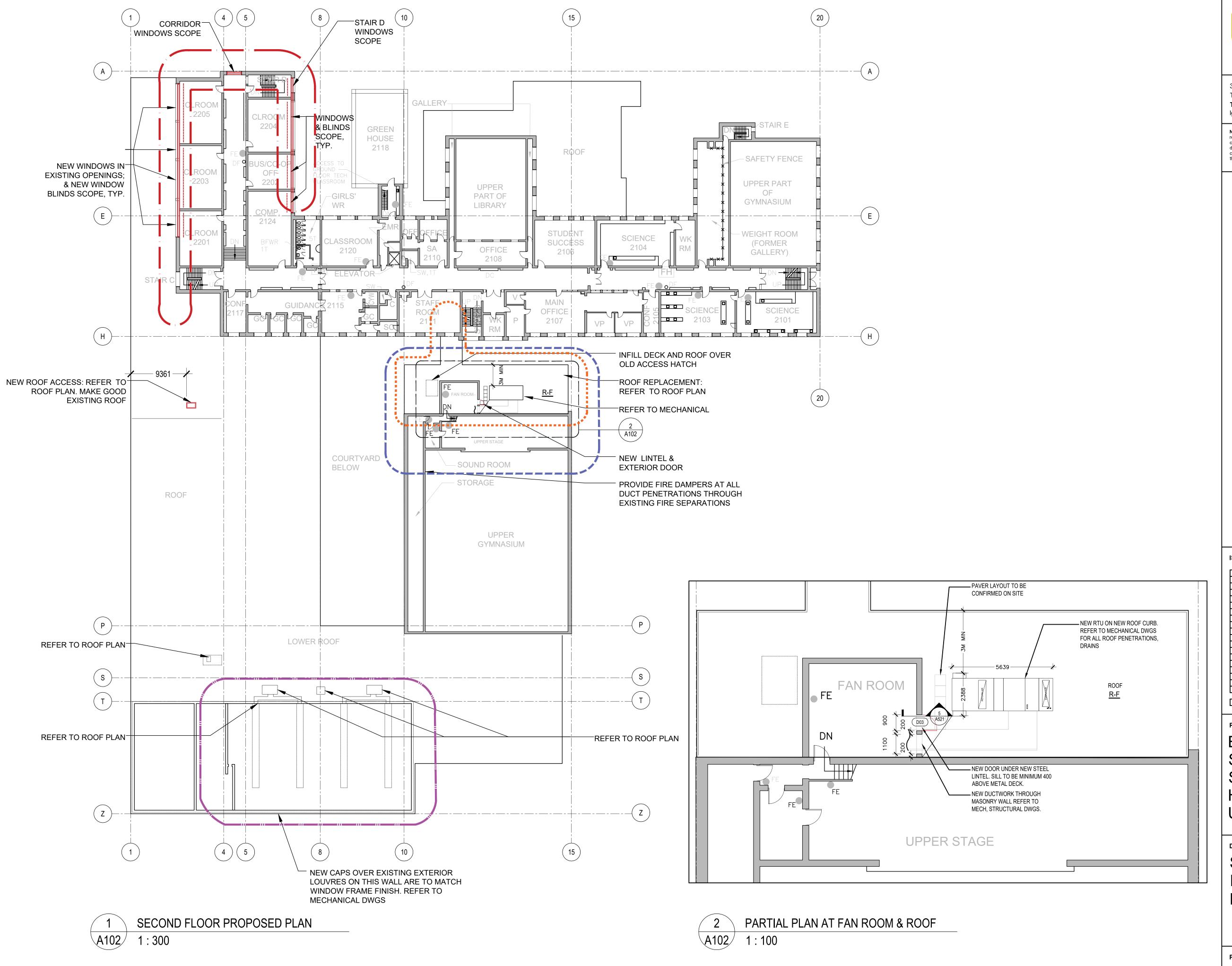
SCALE: AS NOTED

DRAWN BY: JG

REVIEWED BY: JC-B



DRAWING NO:

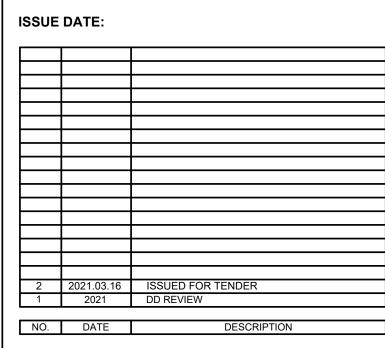




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PROJECT:

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Secondary
School – Window, Roof,
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Upgrades

DRAWING TITLE:

SECOND FLOOR PLAN PROPOSED

PROJECT NO: 20931

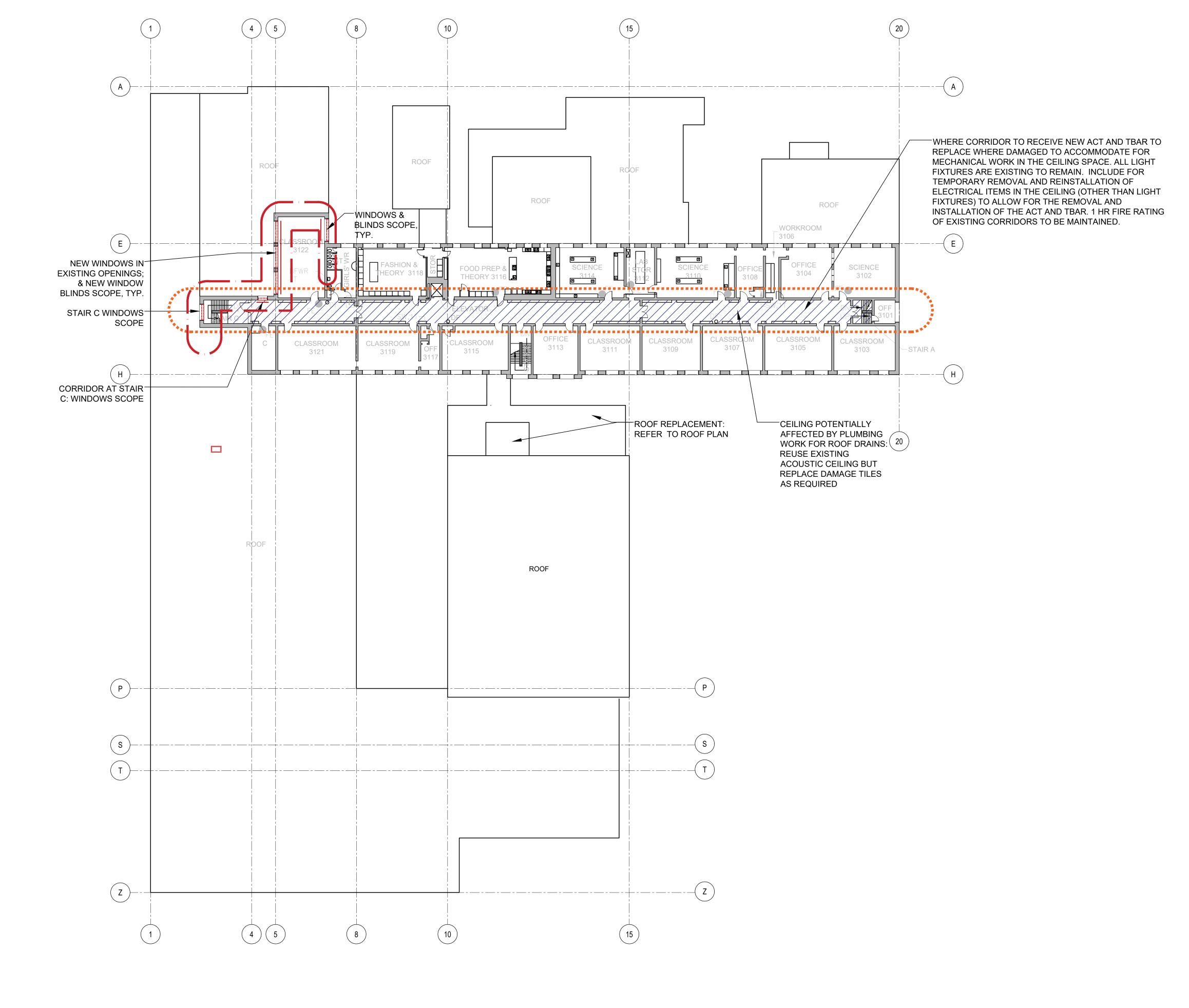
SCALE: AS NOTED

DRAWN BY: JG

REVIEWED BY: JC-B

PROJECT NORTH:

DRAWING NO:



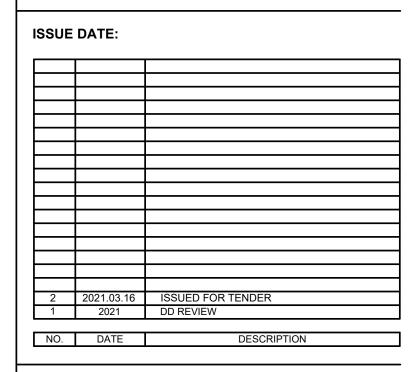
1 THIRD FLOOR PROPOSED PLAN
A103 1:300



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PROJECT:

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

PROJECT NORTH:

DRAWING TITLE:

THIRD FLOOR PLAN PROPOSED

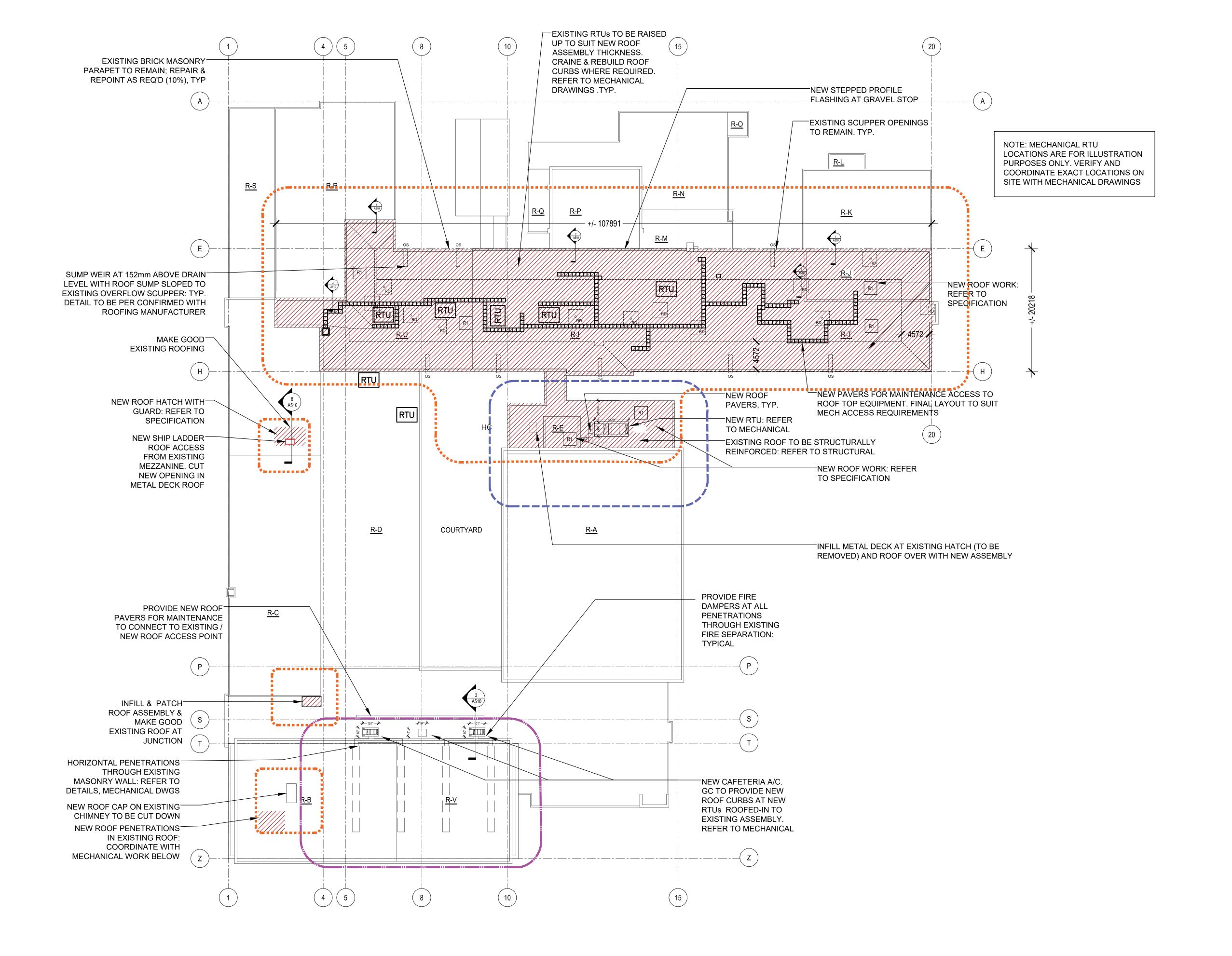
PROJECT NO: 20931

SCALE: AS NOTED

DRAWN BY: JG

REVIEWED BY: JC-B

DRAWING NO:



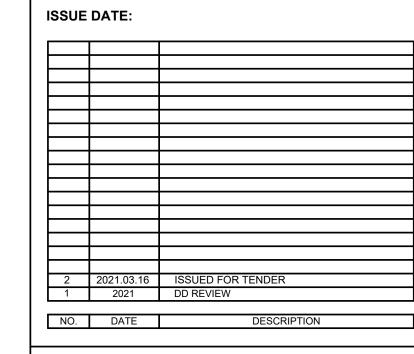
1 ROOF PROPOSED PLAN A104 1:300



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Upgrades

DRAWING TITLE:

ROOF PLAN PROPOSED

PROJECT NO: 20931

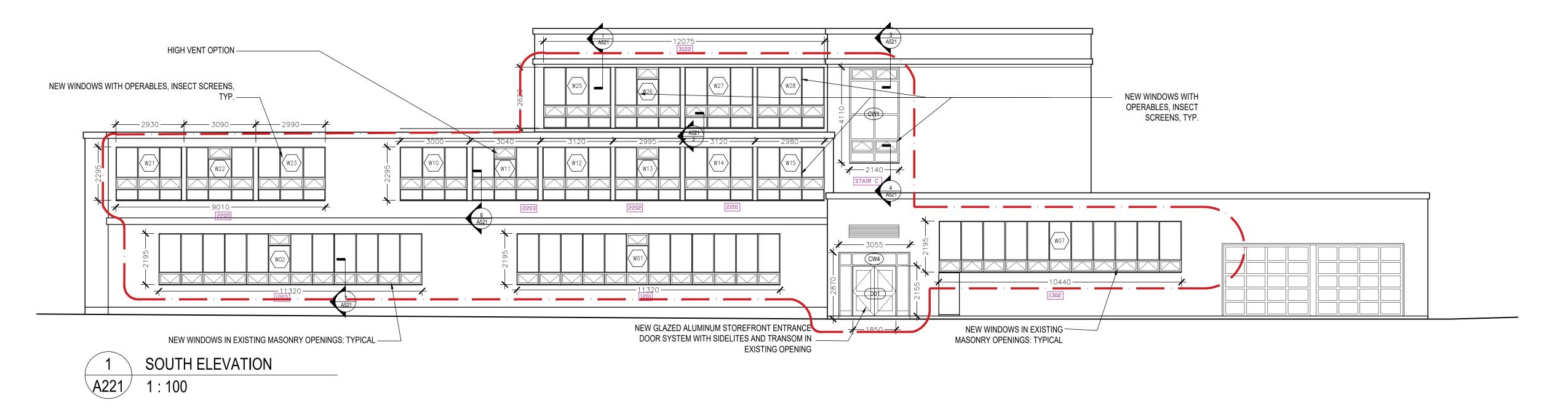
SCALE: AS NOTED

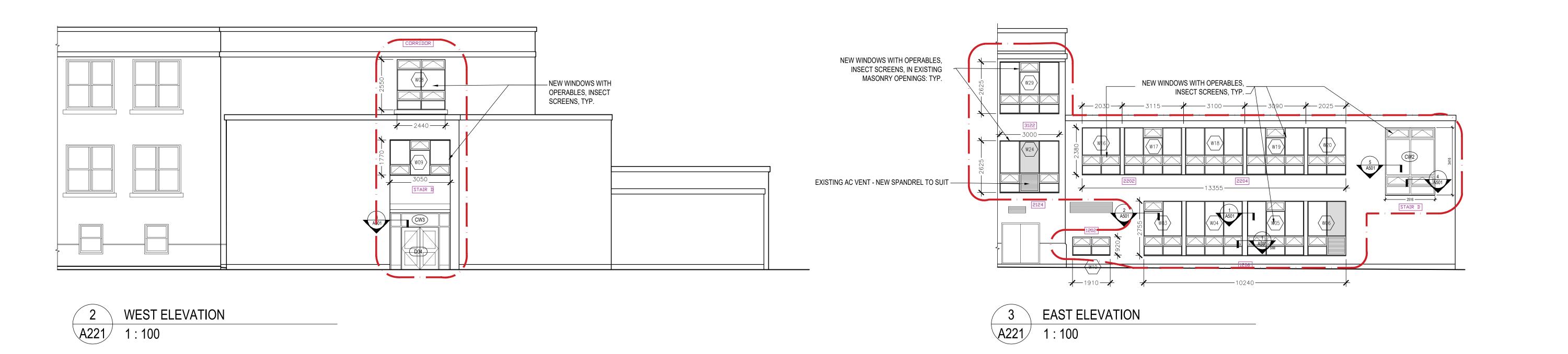
DRAWN BY: JG

REVIEWED BY: JC-B

PROJECT NORTH:

DRAWING NO:





architectura partners

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DO NOT SCALE DRAWINGS

2	2021.03.16	ISSUED FOR TENDER
1	2021	DD REVIEW

PROJECT:

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

DRAWING TITLE:

PARTIAL EXTERIOR ELEVATIONS -NEW FENESTRATION

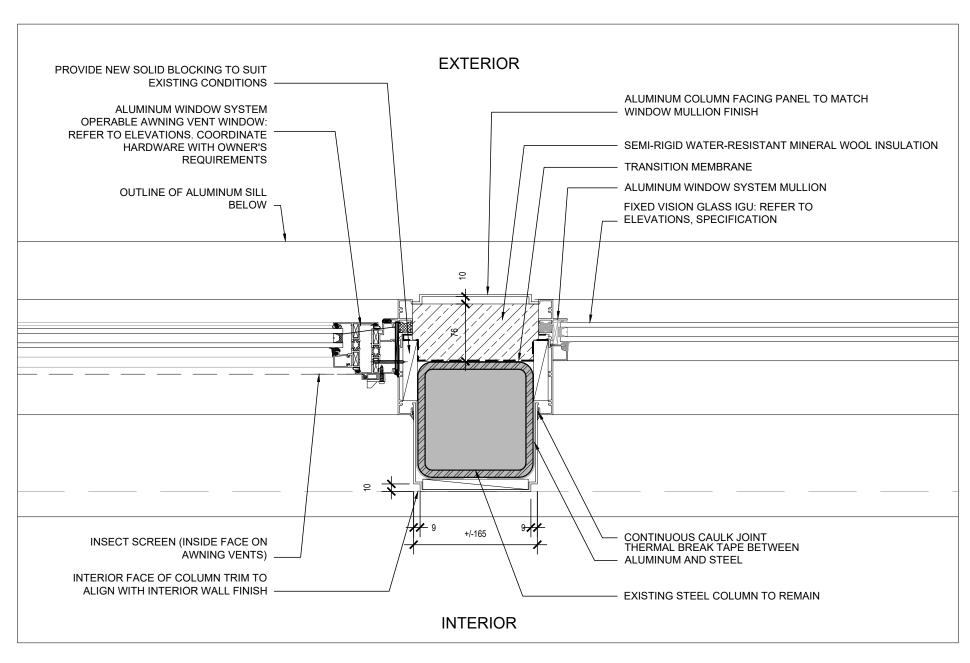
PROJECT NO: 20931

SCALE: AS NOTED

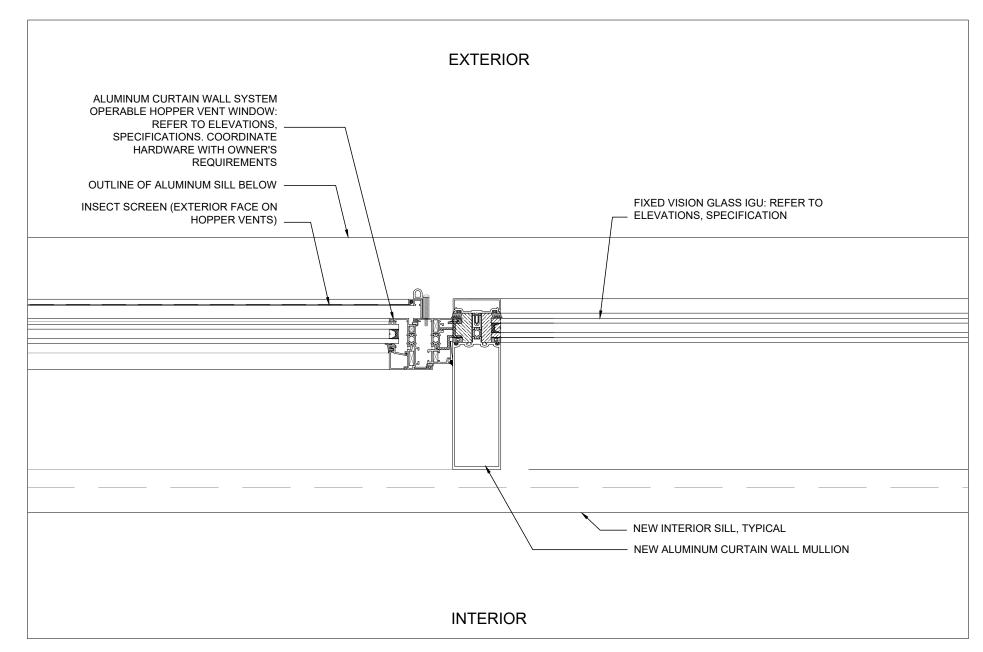
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REVIEWED BY: JC-B

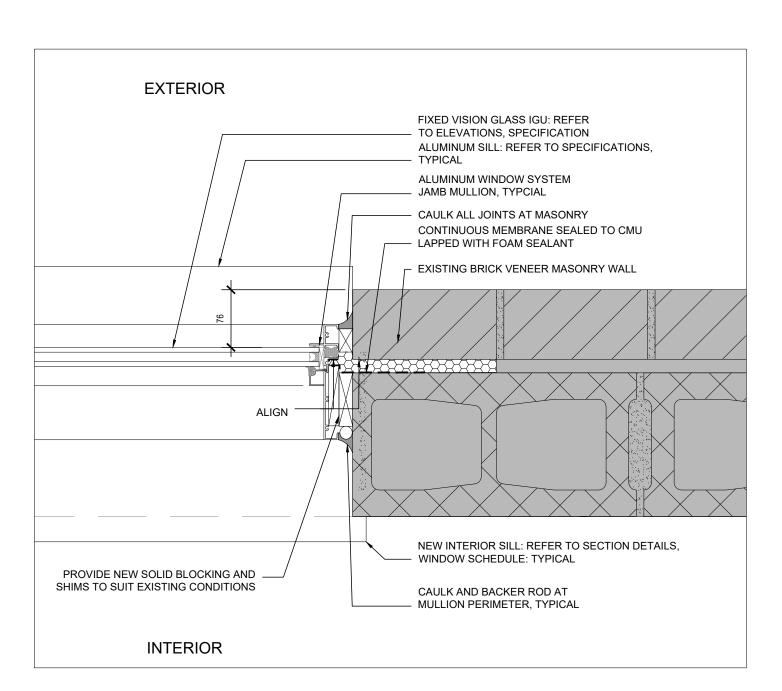
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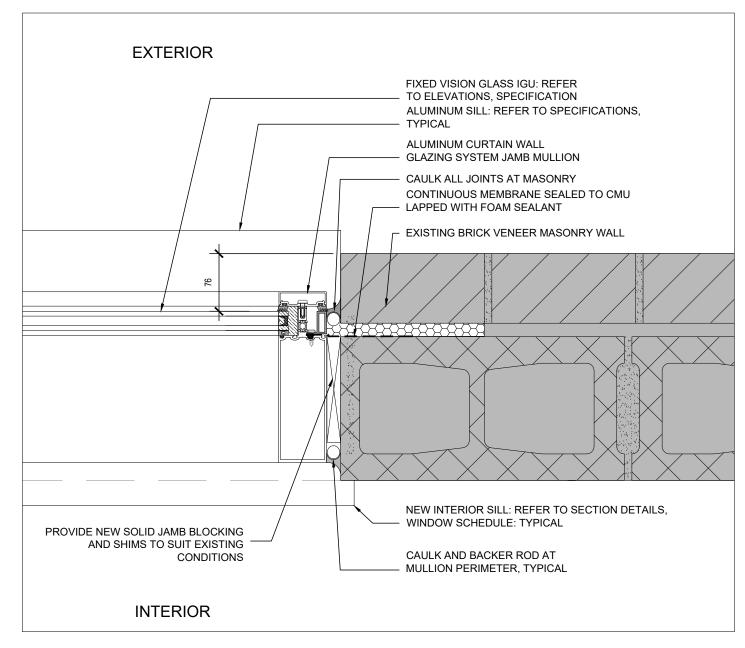
1 TYPICAL JAMB AT POST A501 1:5



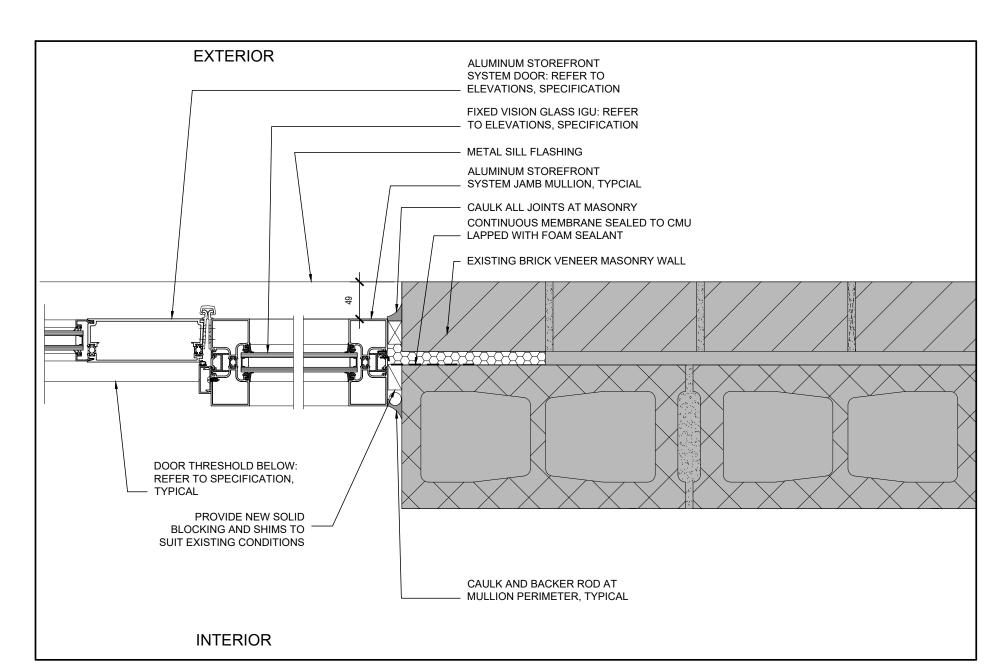
4 VENT JAMB IN CURTAIN WALL
A501 1:5



2 TYPICAL JAMB DETAIL: WINDOW A501 1:5



5 TYPICAL JAMB DETAIL: CURTAIN WALL A501 1:5



3 ENTRANCE DOOR JAMB IN STOREFRONT A501 1:5



6 RESERVED A500 1:5



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ISSUE DATE:

2 2021.03.16 ISSUED FOR TENDER
1 2021 DESIGN DEVELOPMENT

NO. DATE DESCRIPTION

PROJECT:

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

DRAWING TITLE:

PLAN DETAILS

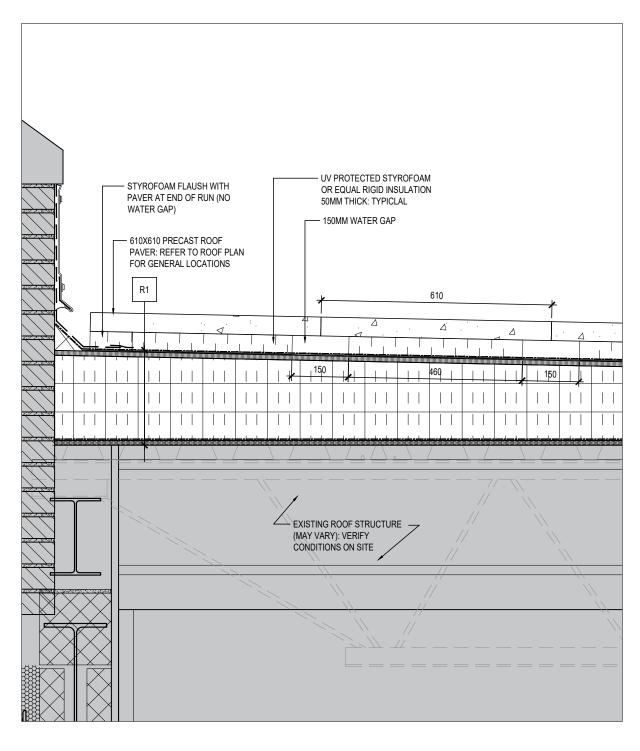
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SCALE: AS NOTED

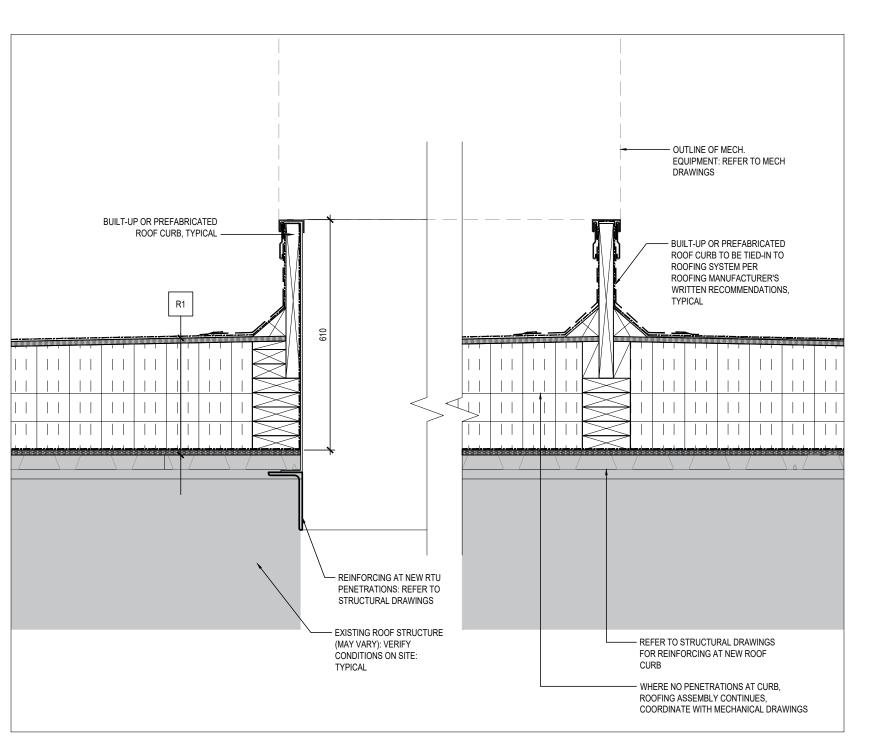
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REVIEWED BY: JC-B

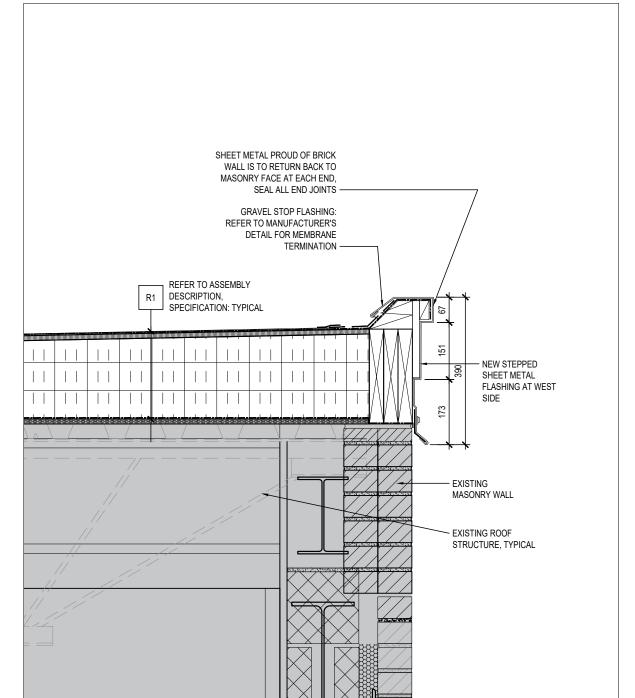
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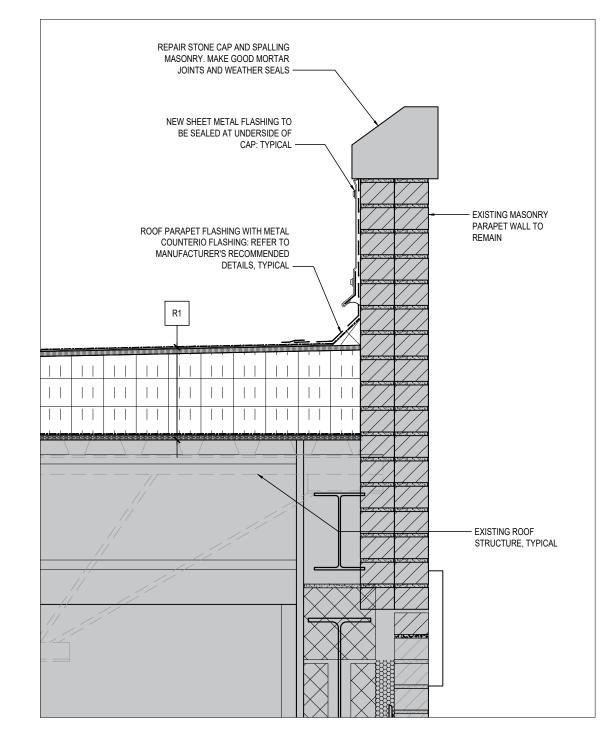




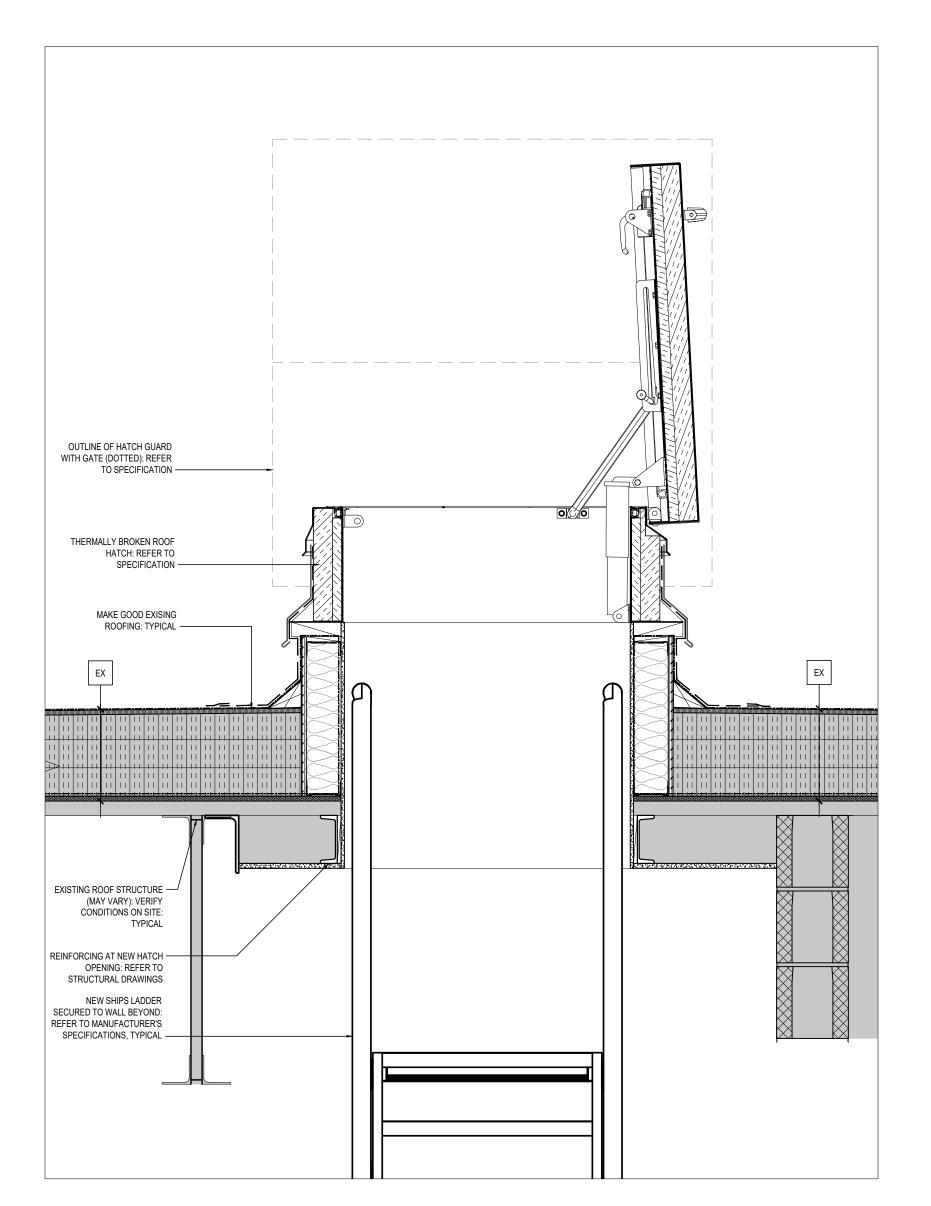
TYPICAL ROOF CURB DETAIL
1:10



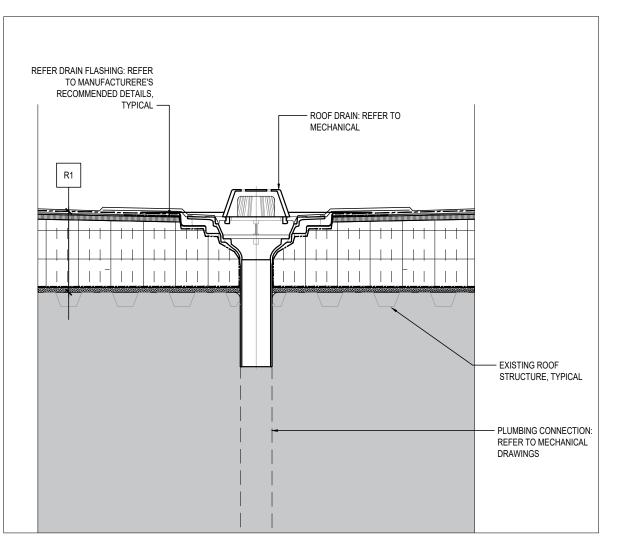
2 TYPICAL GRAVEL STOP FLASHING DETAIL A510 1:10



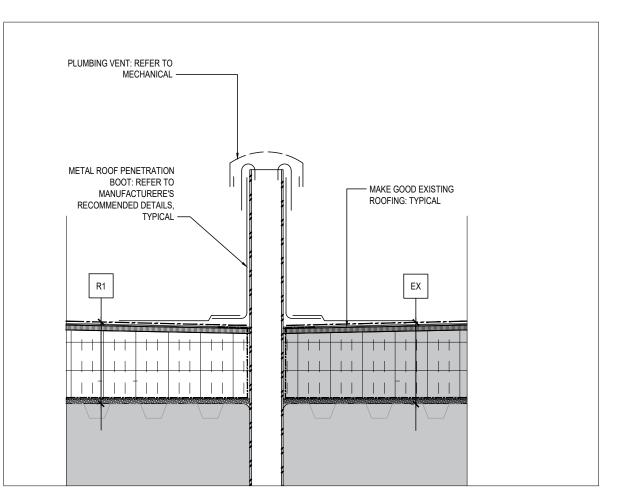
1 TYPICAL DETAIL AT PARAPET A510 1:10



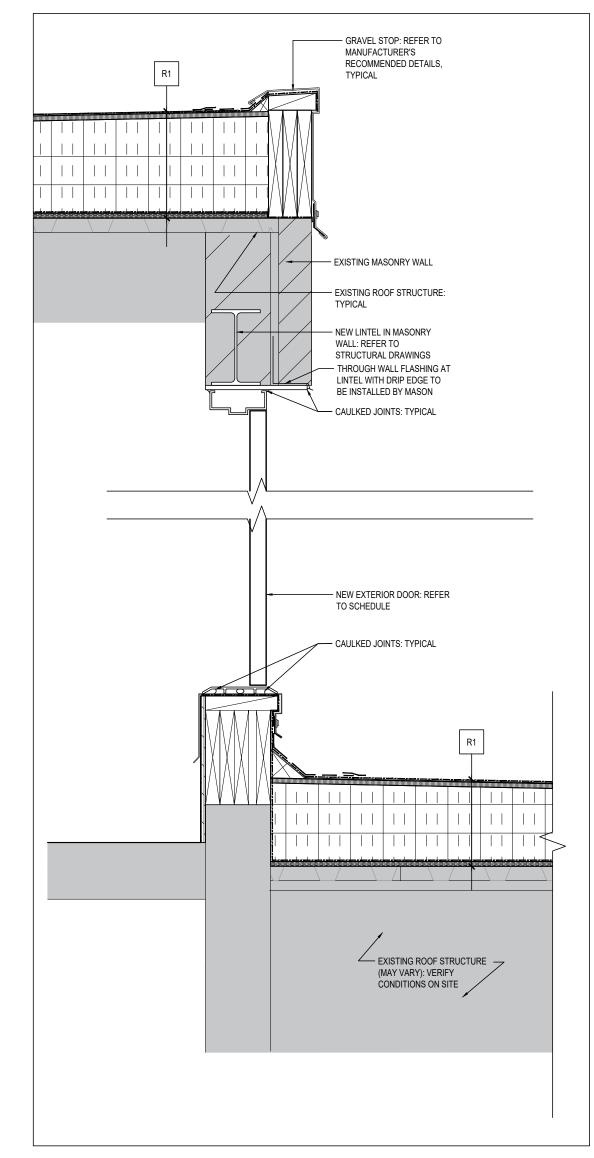




6 TYPICAL ROOF DRAIN DETAIL A510 1:10



7 TYPICAL ROOF PENETRATION DETAIL 1: 10



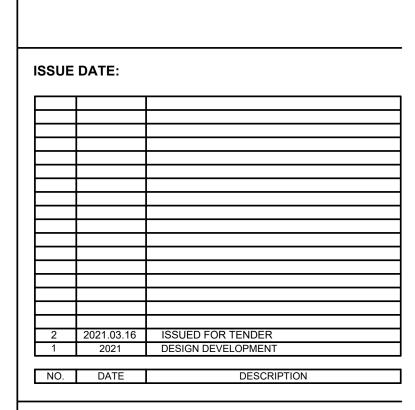
5 TYPICAL DETAIL - FAN ROOM DOOR A510 1:10



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PROJECT:

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

DRAWING TITLE:

SECTION DETAILS

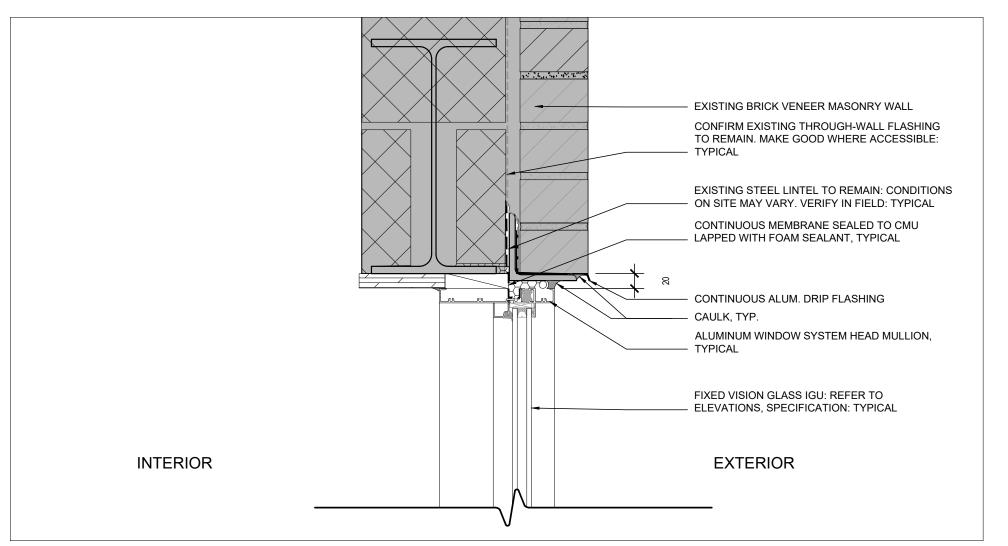
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SCALE: AS NOTED

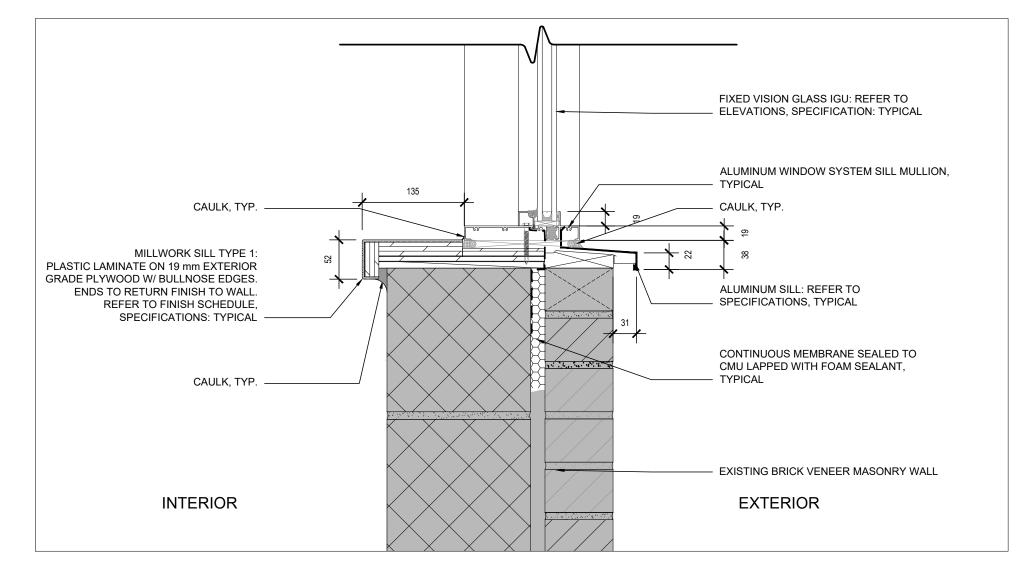
DRAWN BY: JC

REVIEWED BY: JC-B

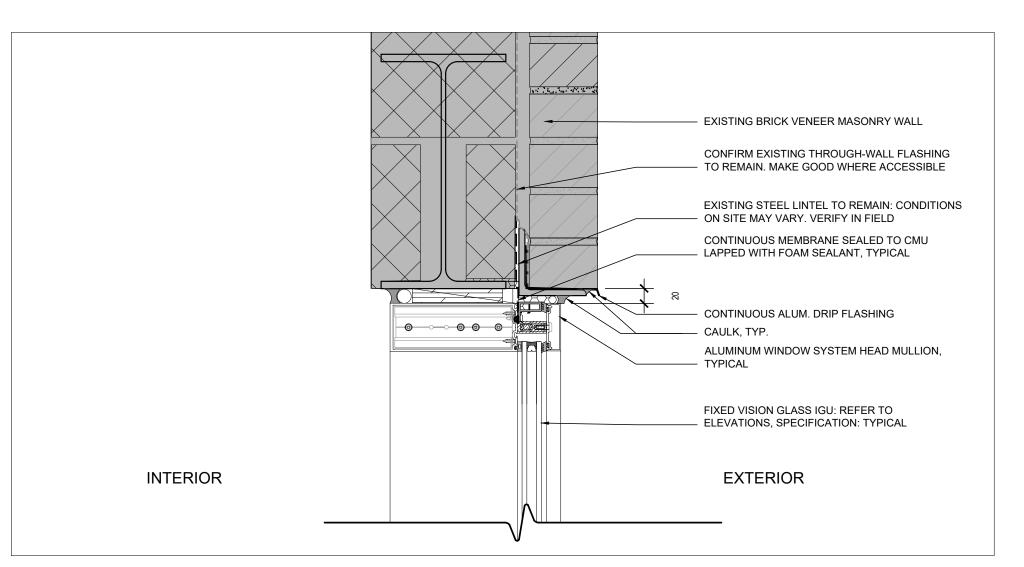
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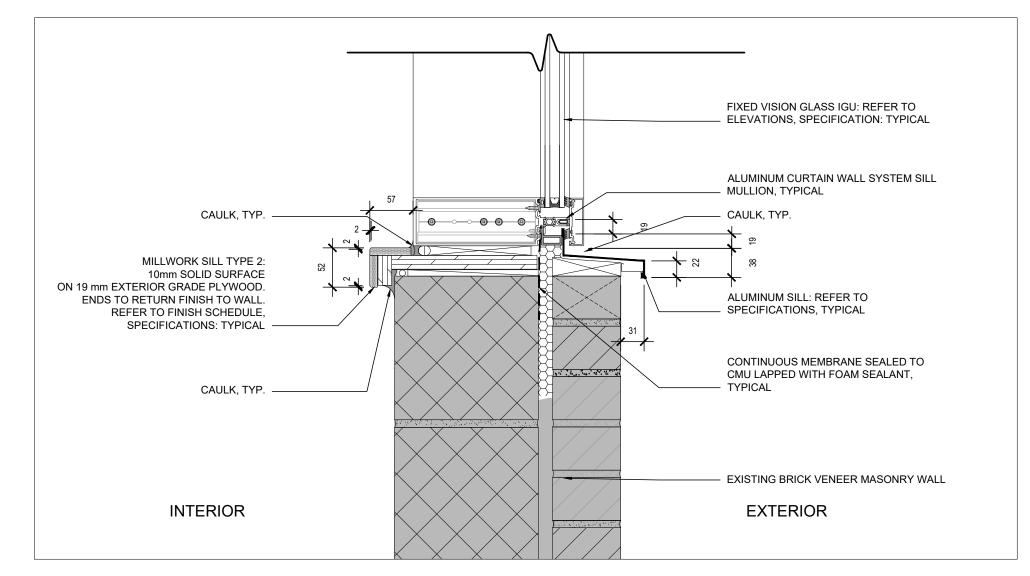




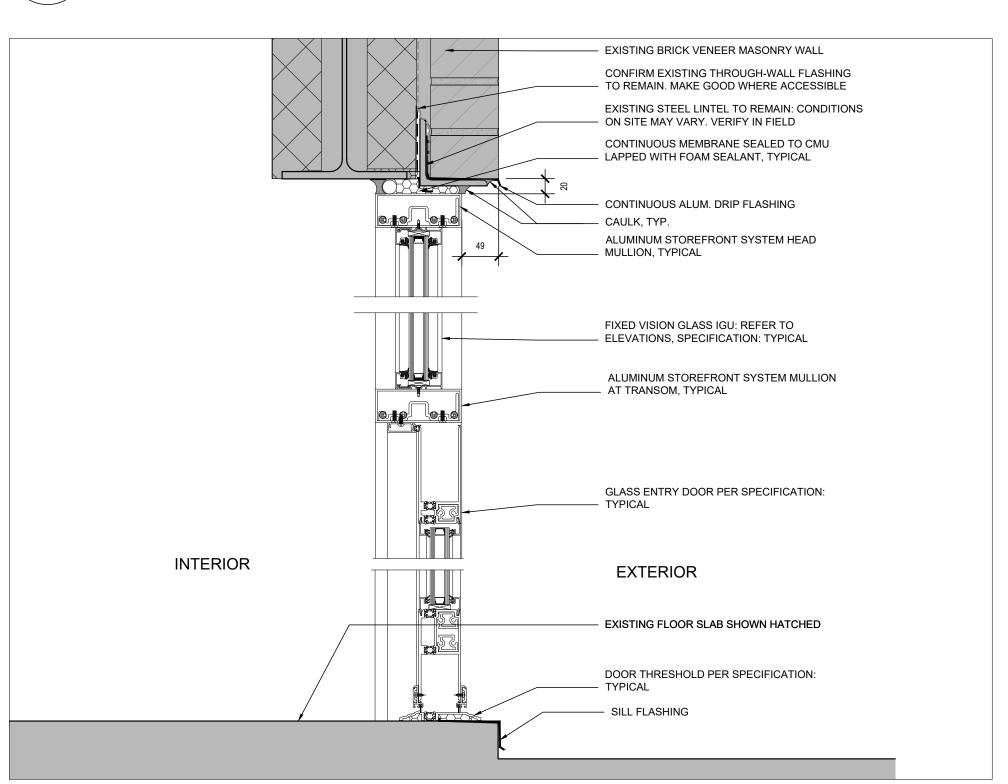
2 TYPICAL SILL DETAIL: WINDOW 1:5



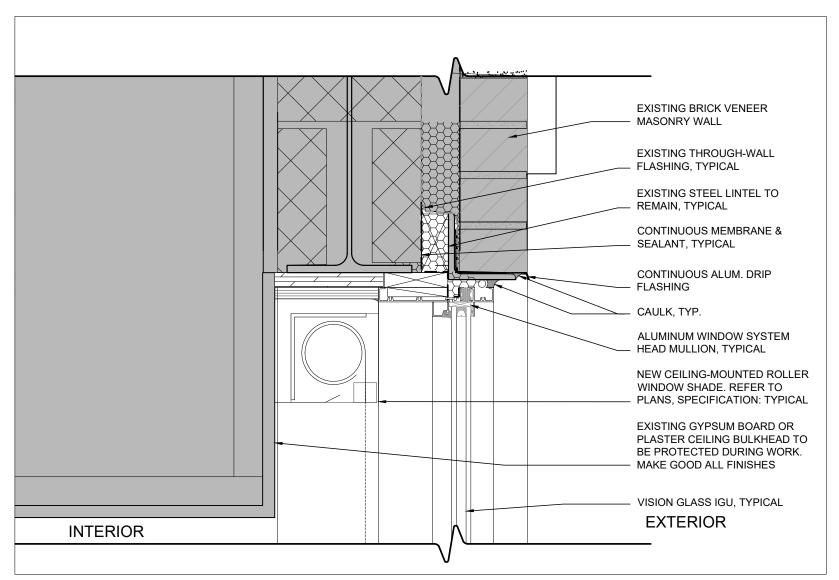
3 TYPICAL HEAD DETAIL: CURTAIN WALL
A521 1:5



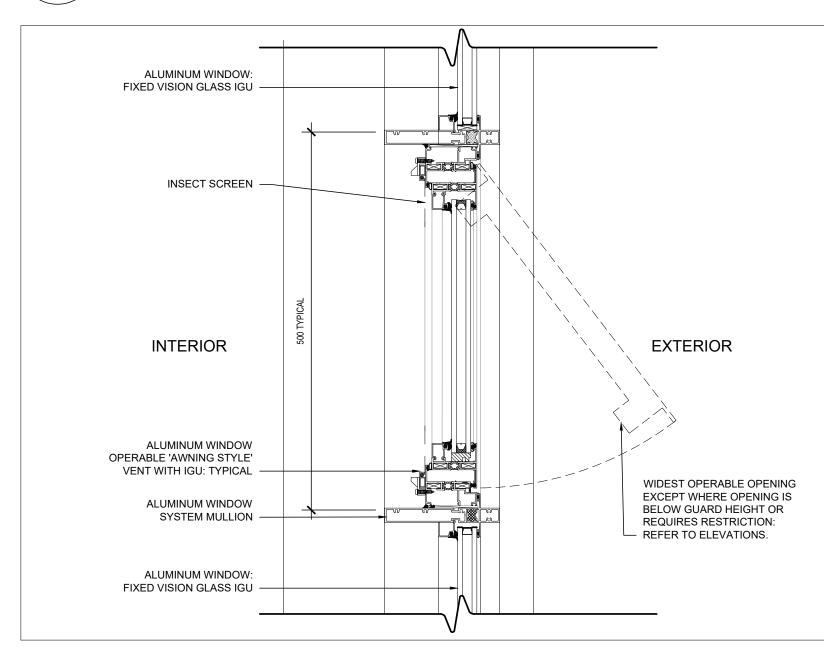
4 TYPICAL SILL DETAIL: CURTAIN WALL A521 1:5



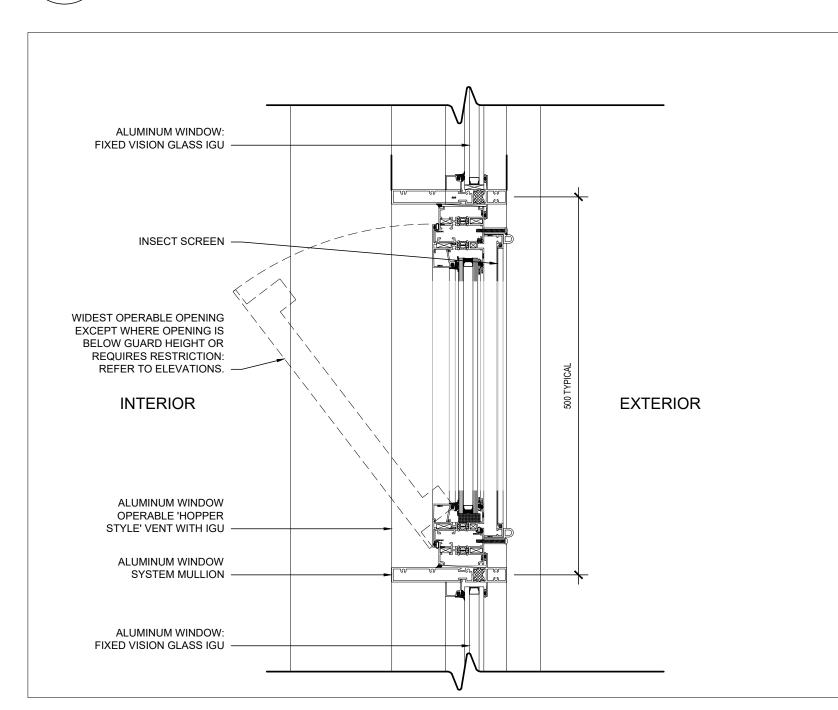
8 TYPICAL DETAIL: ENTRY DOORS & TRANSOM A521 1:5



5 TYPICAL HEAD DETAIL: WINDOW WITH BLIND 1:5



6 TYPICAL VENT WINDOW: AWNING STYLE
A521 1:5



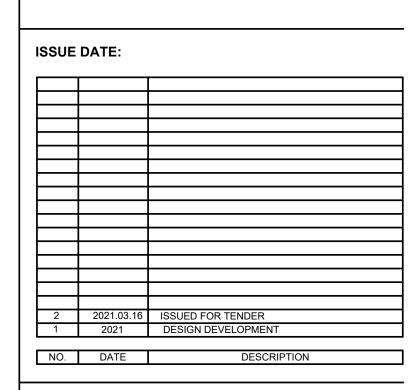
7 TYPICAL VENT WINDOW: HOPPER STYLE
1 · 5



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PROJECT:

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

SECTION DETAILS

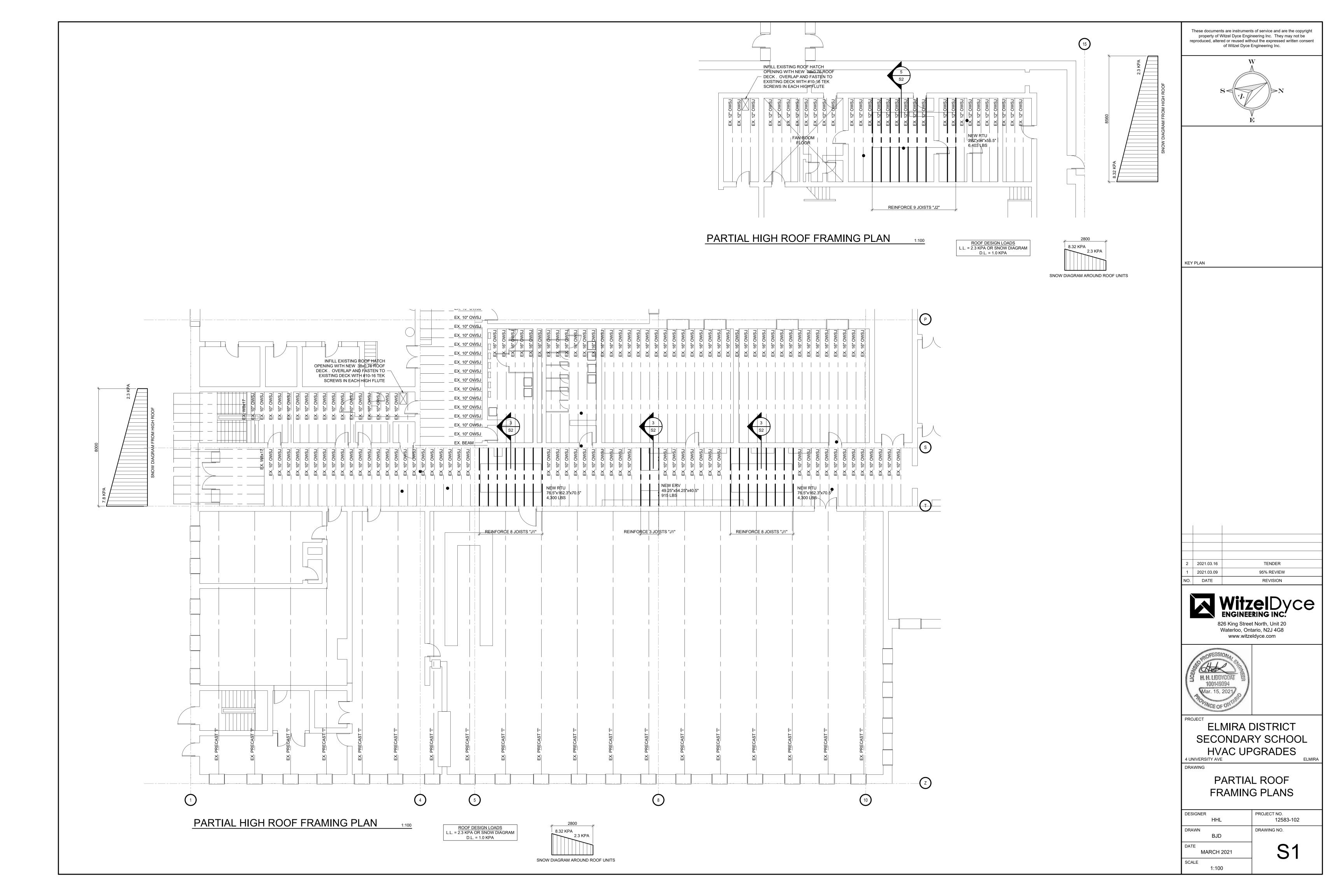
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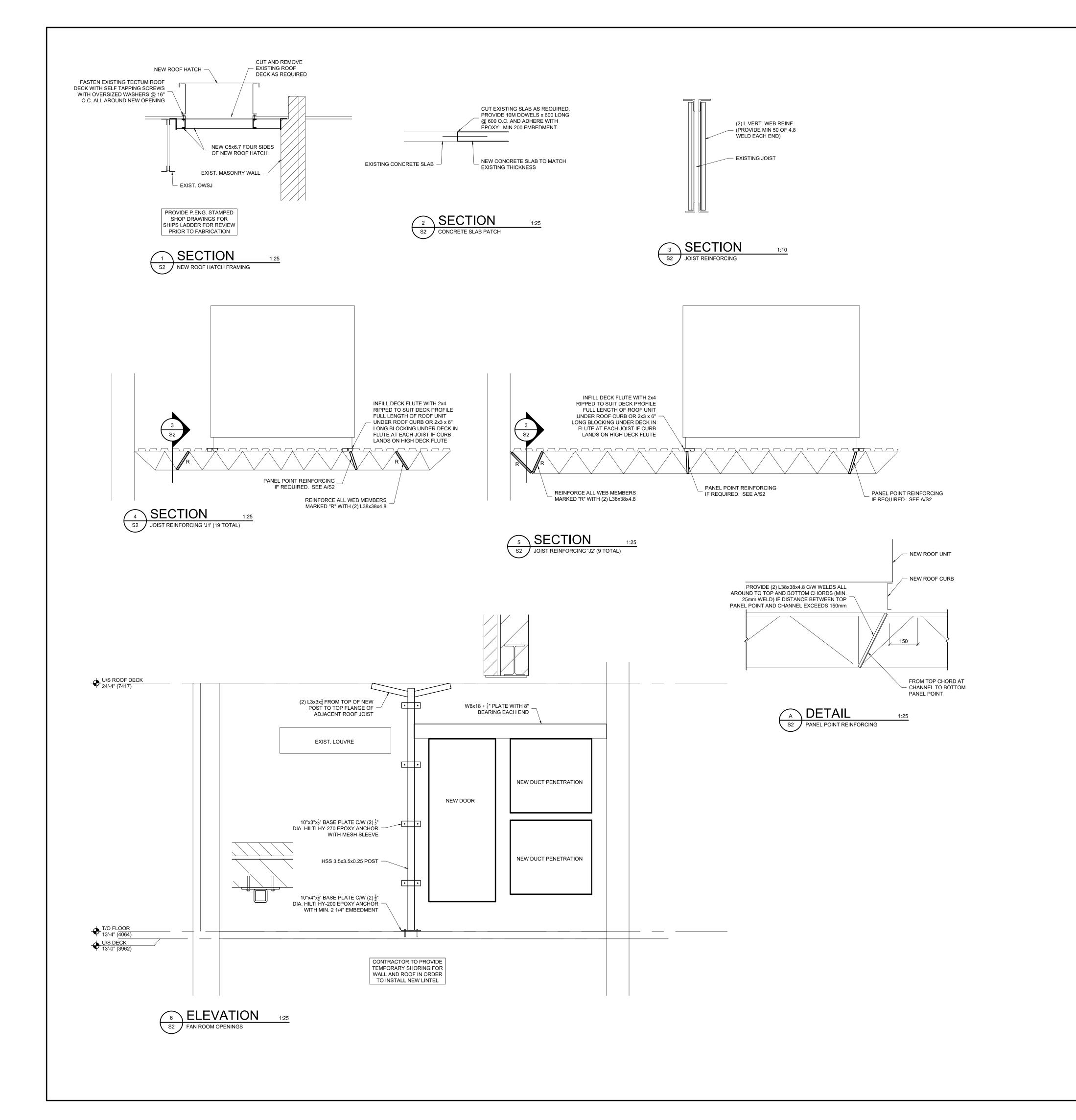
SCALE: AS NOTED

DRAWN BY: JG

REVIEWED BY: JC-B

DRAWING NO:





CONSTRUCTION NOTES:

A. <u>GENERAL</u>

- ALL WORK SHALL CONFORM TO THE ONTARIO BUILDING CODE AND ALL STANDARDS REFERENCED WITHIN, LOCAL REGULATIONS AND BYLAWS, AND THE
- OCCUPATIONAL HEALTH AND SAFETY ACT FOR CONSTRUCTION PROJECTS. THE LATEST VERSIONS OF STANDARDS SHALL APPLY.

 2. READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND CONSULTANT DRAWINGS.
- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT
 DOCUMENTS AND CONSULTANT DRAWINGS.
 THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL
 CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE
 PROJECT. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS IN RELATION TO THE

DRAWINGS AND NOTIFY THE ENGINEER TO ALL DISCREPANCIES PRIOR TO

PROCEEDING WITH THE WORK.

4. DRAWINGS ARE NOT TO BE SCALED.

5. THE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE WITH THE PARTY WHOM THE ENGINEER HAS ENTERED INTO CONTRACT. THERE ARE NO REPRESENTATIONS MADE TO ANY PARTY WITH WHOM THE ENGINEER HAS NOT

CONTRACT DOCUMENTS FOR ONSITE WELDING OF STRUCTURAL STEEL.

- ENTERED INTO CONTRACT.

 6. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING AND INSPECTION COMPANY TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH THE
- 7. THE ENGINEER SHALL BE GIVEN MINIMUM 24 HOURS NOTICE BY THE CONTRACTOR FOR ALL CONSTRUCTION REVIEWS. SITE VISITS AND REVIEWS BY THE ENGINEER OR HIS REPRESENTATIVE ARE INTENDED FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THE REVIEWS SHALL NOT MEAN THAT THE ENGINEER HAS SEEN ALL CONSTRUCTION PROCEDURES. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS AND FOR MEETING ALL THE REQUIREMENTS OF THE CONSTRUCTION AND CONTRACT DOCUMENTS.
- 8. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO ENSURE SAFETY AND THE BUILDING IS PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION AS PER O.REG 213/91. ALL BRACING MEMBERS SHOWN ON THE DRAWINGS ARE DESIGNED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR ERECTION PURPOSES. SHORING AND BRACING IS REQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. SHORING AND BRACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED WITH P.ENG'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION.
- 9. NO SUBSTITUTIONS FROM THE SPECIFIED PRODUCTS AND MATERIALS ARE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

B. CONCRETE

CONCRETE WORK SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA-A23.1, A23.2 AND A23.3.
 CONCRETE PROPERTIES: (MINIMUM COMPRESSIVE STRENGTH MEASURED AT 28 DAYS UNLESS NOTED)
 a) ALL CONCRETE UNLESS NOTED OTHERWISE - 25 MPa

CONCRETE PROPERTIES	SSA CLASS	3 DAY COMP. TRENGTH MPa	AX. W/C ATIO	AIR CONTENT %	AX. GGREGATE mm	LUMP mm
LOCATION	၁	28 ST	₹ ¥	4	Σď	ls
INTERIOR CONCRETE SLABS	N	25	0.50	NA	20	80 ±30

- CONCRETE DESIGN IS BASED ON COMPRESSIVE STRENGTH. PHYSICAL PROPERTIES (SLUMP, AGGREGATE SIZE, ETC.) TO SUIT INSTALLATION (BY OTHERS) NOT TO AFFECT STRENGTH SPECIFIED.
- 4. SLUMP OF CONCRETE TO BE 80mm ±30mm PRIOR TO SUPER PLASTICIZERS BEING
- 5. DO NOT ADD WATER TO THE CONCRETE.

b) SEE CHART FOR CONCRETE TYPES

- REINFORCING STEEL SHALL CONFORM TO THE LATEST VERSIONS OF CAN/CSA-G30.18. REINFORCING BARS SHALL BE DEFORMED, GRADE 400 MPa.
 MAINTAIN THE FOLLOWING CONCRETE CLEAR COVER TO REINFORCING:
- a) 75mm (3") FOR CONCRETE CAST AGAINST EARTH
 b) 38mm (1 1/2") FOR CONCRETE CAST AGAINST FORMWORK
- c) 64mm (2 1/2") FOR CONCRETE EXPOSED TO DE-ICING CHEMICALS
 8. ALL REINFORCING STEEL, DOWELS AND ANCHOR BOLTS ARE TO BE CLEAN AND FREE OF RUST, DIRT, FORM RELEASE AGENT, ETC. PRIOR TO POURING CONCRETE.

C. MASONRY

1. MASONRY TO CONFORM TO THE LATEST VERSION OF CAN/CSA-S304.1 AND CSA

- 2. STRENGTH OF LOAD-BEARING MASONRY UNITS TO BE MINIMUM 15 MPa FOR
- HOLLOW UNITS BASED ON NET AREA.

 3. TYPE 'S' MORTAR SHALL BE USED FOR CONCRETE BLOCK. TYPE 'N' MORTAR SHALL BE USED FOR BRICK AND DECORATIVE BLOCK. GROUT STRENGTH SHALL BE 20 MPa UNLESS NOTED OTHERWISE. MORTAR AND GROUT TO CONFORM TO THE LATEST
- VERSION OF CSA A179.

 4. ALL STEEL BEAMS AND JOISTS SHALL BE SUPPORTED BY BEARING PLATES DESIGNED TO THE LATEST VERSION OF CAN/CSA S16. BEARING PLATES SHALL HAVE MINIMUM (2) 12mm (1/2") DIAMETER x 450mm (18") LONG ANCHORS WITH 50mm
- 5. FOR MASONRY OPENINGS NOT SHOWN ON THE FRAMING PLANS UP TO 1200mm (48") WIDE, PROVIDE ONE L89x89x6.4 (L3.5x3.5x0.25) FOR EACH 90mm (3 1/2") THICKNESS OF MASONRY.

D. STRUCTURAL STEEL

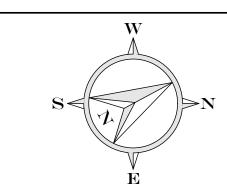
- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE.
 STRUCTURAL STEEL SHALL CONFORM TO THE LATEST VERSION OF CAN/CSA G40.20, G40.21 GRADE 350W CLASS C FOR H.S.S., G40.21 GRADE 350W FOR W SHAPE SECTIONS AND G40.21 GRADE 350W FOR CHANNELS, ANGLES AND
- MISCELLANEOUS METAL.
 3. BOLTED CONNECTIONS SHALL USE GRADE A325 BOLTS.
 4. WELDING SHALL CONFORM TO CSA W59 AND CSA W47 DIVISION 1 OR DIVISION 2.1
- BY THE CANADIAN WELDING BUREAU. WELDING SHALL BE COMPLETED BY CWB CERTIFIED FABRICATOR AND ERECTOR TO THE CSA STANDARDS W178.1 AND W178.2.
- 5. WHERE FORCES ARE NOT SHOWN ON THE DRAWINGS BEAM REACTIONS SHALL BE 1/2 THE TOTAL UNIFORM DISTRIBUTED FACTORED LOADS NOTED IN THE BEAM LOAD TABLES OF PART 5 OF THE CISC'S HANDBOOK OF STEEL CONSTRUCTION.
 6. COLUMN BEARING GROUT SHALL BE 40 MPa MINIMUM, NON-SHRINK AND 38mm (1
- 1/2") MINIMUM THICK.
 7. STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED WITHOUT THE APPROVAL
- OF THE ENGINEER.

 8. STEEL BEAMS AND LINTELS SHALL HAVE MINIMUM 200mm (8") BEARING ON MASONRY UNLESS OTHERWISE NOTED. WELD BEAMS AND LINTELS TO BEARING PLATES WHERE PROVIDED WITH MINIMUM 4.8mm x 50mm (3/16"x2") FILLET WELD
- EACH SIDE.
 9. ALL ROOF OPENINGS IN METAL DECK ARE TO BE REINFORCED WITH C130x10 (C5x6.7) CHANNEL FRAMES UNLESS NOTED OTHERWISE.
 10. ALL STRUCTURAL STEEL IS TO BE SHOP PRIME PAINTED UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WHICH IS TO BE PROTECTED WITH SPRAY APPLIED FIREPROOFING IS TO BE KEPT CLEAN AND UNCOATED. STRUCTURAL
- STEEL EXPOSED TO WEATHER IS TO BE HOT DIP GALVANIZED CONFORMING TO THE LATEST VERSION OF CAN/CSA-G164. ALL COATINGS ARE TO BE TOUCHED UP ON SITE WITH APPROVED PAINT FOR PRIMED STEEL AND ZINC RICH PAINT FOR GALVANIZED STEEL.

 TESTING REQUIREMENTS

TESTING REQUIREMENTS					
TEST COMMENTS					
STRUCTURAL STEEL CONNECTIONS	INSPECT ALL FIELD WELDS				
ALL TESTING TO BE COMPLETED BY A CERTIFIED INDEPENDENT TESTING AND INSPECTION COMPANY. COPIES OF ALL REPORTS ARE TO BE FORWARDED TO THE FIGURER FOR REVIEW					

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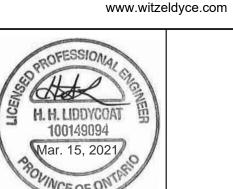


KEY PLAN

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

826 King Street North, Unit 20

Waterloo, Ontario, N2J 4G8



ELMIRA DISTRICT SECONDARY SCHOOL HVAC UPGRADES

4 UNIVERSITY AVE DRAWING

SECTIONS AND DETAILS

DESIGNER
HHL
12583-102

DRAWN
BJD

PROJECT NO.
12583-102

DRAWING NO.

DATE MARCH 2021

SCALE 1:25

S2

GENERAL NOTES:

- THE OWNER'S PROFESSIONAL ENGINEER IS REQUIRED TO FIELD REVIEW THE INSTALLATION OF SERVICES INCLUDED IN THIS PROJECT IN ACCORDANCE WITH THE GENERAL REVIEW COMMITMENT CERTIFICATION PROCESS. THE OWNER'S CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS NOTICE PRIOR TO COMMENCING CONSTRUCTION OF THE
- THE OWNER/OWNER'S CONTRACTOR SHALL HAVE ITS PROFESSIONAL ENGINEER PROVIDE FULL-TIME ONSITE REVIEW DURING CONSTRUCTION ON AN EXISTING MUNICIPAL STREET OR EASEMENT AND PROVIDE A CERTIFICATE OF COMPLETION OF WORKS UPON COMPLETION OF ALL WORKS TO BE CONSTRUCTED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE CURRENT ONTARIO BUILDING CODE (OBC) AND ANY APPLICABLE STATUTES, REGULATIONS, CODES AND BY-LAWS.
- STRIK, BALDINELLI, MONIZ LTD. (SBM) IS NOT RESPONSIBLE FOR THE INFORMATION (EXISTING TOPOGRAPHY, BENCHMARKS, PROPERTY BOUNDARY, ETC.) PROVIDED BY

CONSTRUCTION NOTES:

- 1. REFER TO THE SERVICING PLAN FOR LAYOUT DIMENSIONING.
- 2. THE OWNER'S CONTRACTOR IS TO CONTACT THE CONSULTING ENGINEER (SBM) FOR FINAL ONSITE REVIEW. THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS NOTICE PRIOR TO REQUIRED ONSITE REVIEW.
- THE OWNER'S CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT AS REQUIRED BY THE MINISTRY OF LABOUR TO EXECUTE THE WORK.
- 4. THE OWNER'S CONTRACTOR IS TO REVIEW AND CONFIRM ALL EXISTING CONDITION INFORMATION & INFORM SBM OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. SBM IN NO WAY ACCEPTS RESPONSIBILITY FOR ANY INACCURACIES FOUND ON THIS PLAN RELATIVE TO EXISTING CONDITIONS FOR THE SITE.
- 5. PRIOR TO COMMENCING ANY CONSTRUCTION, ALL SEWER OUTLET INFORMATION, BENCHMARKS, ELEVATIONS, DIMENSIONS, GRADES, ETC. MUST BE CHECKED BY THE CONTRACTOR AND VERIFIED AND ANY DISCREPANCIES REPORTED TO THE ENGINEERS.
- 6. PRIOR TO COMMENCING ANY WORK ON THE INSTALLATION OF SERVICES & GRADING, AN APPROVED SET OF PLANS AND SPECIFICATIONS MUST BE AVAILABLE ON THE JOB AND SHALL REMAIN THERE WHILE WORK IS BEING DONE.
- STRIP FULL DEPTH OF TOPSOIL IN AREAS TO BE DISTURBED AND STOCK PILE FOR RE-USE IN GRASSED/LANDSCAPED AREAS.
- 8. OWNER'S CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT INVERTS AND GRADES, RECORD ANY DEVIATION OF PIPE OR STRUCTURE LOCATION INVOLVED WITH THIS PROJECT AND OWNER'S CONTRACTOR TO PROVIDE A COPY OF THE AS-BUILT DRAWING SHOWING ALL CHANGES CLEARLY MARKED IN RED. 9. THE OWNER'S CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE MINISTRY OF NATURAL RESOURCES. THESE MEASURES ARE

TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION FOR THIS PROJECT AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO BASE

- 10. THE CONTRACTOR SHALL INFORM GRAND RIVER TRANSIT (GRT) AT LEAST ONE WEEK PRIOR TO COMMENCING CONSTRUCTION ON ANY STREET THAT IS A GRT BUS ROUTE THAT WILL BE AFFECTED BY CONSTRUCTION. 11. THE CONTRACTOR IS RESPONSIBLE FOR:
- CONNECTING ANY EXISTING SEWER OR DRAIN ENCOUNTERED DURING CONSTRUCTION TO A NEW SEWER OF SIMILAR TYPE, SIZE AND MATERIAL OR INTO ANOTHER EXISTING SEWER OF THE SAME TYPE AND TO REPORT ON AS-BUILT DRAWINGS. 11.2. ENSURING THAT THERE IS NO INTERRUPTION OF ANY SURFACE OR SUBSURFACE DRAINAGE FLOW THAT WOULD ADVERSELY AFFECT NEIGHBOURING PROPERTIES.
- PERMITTED TO THE STORM SYSTEM UNLESS THE STORM SYSTEM HAS THE CAPACITY TO PROVIDE FOR SUCH CONNECTIONS TO THE SATISFACTION OF THE MUNICIPAL 13. WORK ON OR ADJACENT TO THE MUNICIPAL CITY RIGHT OF WAY (R.O.W.) SHALL BE COMPLETED IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 CURRENT EDITION AND THE ONTARIO TRAFFIC MANUAL BOOK 18 CURRENT EDITION.

12. NO FOUNDATION DRAIN CONNECTIONS WILL BE PERMITTED INTO THE SANITARY SEWERS AND NO DIRECT GRAVITY CONNECTIONS FROM THE FOUNDATION DRAINS WILL BE

SURFACE WORKS NOTES:

- 1. ALL WORK IN THE TOWN ROAD ALLOWANCE SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF 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 MUNICIPAL ENGINEER. THE CONTRACTOR IS REQUIRED TO OBTAIN & PAY FOR PERMIT TO WORK IN MUNICIPAL R.O.W.
- ALL SURFACES WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST AS GOOD AS ORIGINAL, OR AS PER BELOW (WHICHEVER IS GREATER) OR IF WITHIN THE MUNICIPAL RIGHT OF WAY TO THE SATISFACTION OF THE MUNICIPAL ENGINEER, ALL AT NO COST TO THE MUNICIPALITY.
 - 2.1. GRASSED AREAS TO BE RESTORED w/ 100mm TOPSOIL + SOD.

ASPHALT AND SOD OR THE SATISFACTION OF THE MUNICIPAL ENGINEER.

- CONCRETE SIDEWALK TO OPSD STANDARD 310.010.
- CONCRETE CURB AND GUTTER TO OPSD 600.040 (ASSUMED EXISTING ON-SITE CURB). 2.4. ANY ASPHALT AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS FOLLOWS:
 - 2.4.1. PROOF ROLL SUBGRADE (TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER) PRIOR TO PLACEMENT OF GRANULARS (98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) MIN.).
 - 2.4.2. MILL ADJACENT ASPHALT TO BE TIED INTO 50mm DEEP x 500mm WIDE PRIOR TO RESTORATION SEE DETAIL ON SHEET C1. 2.4.3. ASSUMED EXISTING DRIVING LANE PAVEMENT STRUCTURE (TO BE REVIEWED & APPROVED BY THE GEOTECHNICAL ENGINEER)
 - 40mm HL3 SURFACE ASPHALT COMPACTED TO 97% MARSHALL MIX DESIGN BULK DENSITY
 - 50mm HL8 BINDER ASPHALT COMPACTED TO 97% MARSHALL MIX DESIGN BULK DENSITY - ASPHALT TO BE SUPPLIED AND PLACED IN ACCORDANCE WITH OPSS 310 & 1150
 - 150mm OF GRANULAR 'A' COMPACTED TO 100% SPMDD
 - 300mm OF GRANULAR 'B' COMPACTED TO 100% SPMDD
- 2.5. RESTORE ALL PAVEMENT MARKINGS TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS AND MARKINGS SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 710 'CONSTRUCTION SPECIFICATION FOR PAVEMENT MARKING' 2.6. ALL EXTERIOR HORIZONTAL CONCRETE SHALL BE MIN 125mm THICK, 32 MPa AT 28 DAYS c/w 5-8% AIR ENTRAINMENT AND TEMPERATURE BETWEEN 10-28°C.
- ON MIN 150mm THICK GRANULAR 'A' COMPACTED TO 100% SPMDD. 3. ALL AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL NOT BE DISTURBED. ANY DAMAGED TO THOSE AREAS ARE TO BE REPAIRED AT THE CONTRACTORS EXPENSE.

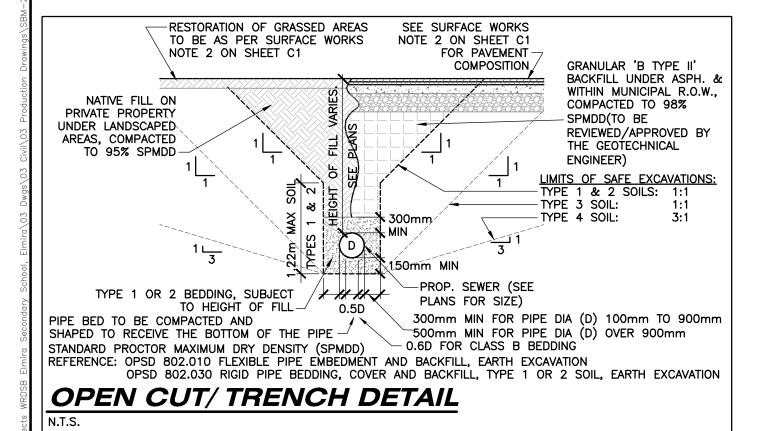
SERVICING NOTES:

AS CONSTRUCTED SERVICES COMPLETION

- 1. ALL STORM AND/OR SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT REGION OF WATERLOO'S STANDARDS AND SPECIFICATIONS AND THE CURRENT EDITION OF THE ONTARIO BUILDING CODE.
- ALL SITE SERVICES SHALL BE INSTALLED TO 1.0m OUTSIDE FOUNDATION WALL, MECHANICAL TRADES WILL TAKE THE SERVICES FROM THAT POINT INTO THE BUILDING.
 ALL ORGANIC, UNSTABLE OR UNSUITABLE MATERIALS BENEATH THE ROAD ALLOWANCE, SERVICES, UTILITIES, OR FOUNDATIONS MUST BE REMOVED AND THESE AREAS BACKFILLED WITH AN APPROVED FILL MATERIAL, ALL TO THE SATISFACTION OF A GEOTECHNICAL ENGINEER AND SHOULD BE PLACED IN LIFTS NOT EXCEEDING 300mm (LOOSE) THAT ARE COMPACTED TO 95% SPMDD (100% FOR PAVED SURFACES). THE FILL MATERIAL SHOULD COMPRISE OF CLEAN, COMPACTIBLE FILL WITHIN 3% OF THE
- REMOVE ALL TRENCH WATER WHEN PIPE LAYING IS IN PROGRESS. ALL REQUIREMENTS FOR DEWATERING PERMITS (INCLUDING THE MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS (M.E.C.P.)'S PERMIT TO TAKE WATER AND REGISTRY, IF REQUIRED) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONNECTIONS FROM FOUNDATIONS, WEEPING TILE, SUMP PUMP, AND ROOF DRAINS ARE NOT PERMITTED TO ENTER THE SANITARY SEWER SYSTEM AND SHALL BE IN
- ACCORDANCE WITH THE REGION OF WATERLOO'S DRAINAGE BY-LAW 1-90. 6. ALL PROPOSED SANITARY SEWER PIPE TO BE PVC SMOOTH WALL (CSA B182.2) (1000 TO 6000) OR RIBBED (CSA B182.4) (2000 TO 6000) OR NON-REINFORCED CONCRETE (CAN/CSA 257.1) (1000 TO 6000) OR REINFORCED CONCRETE (CAN/CSA 257.2). PVC PIPE SHALL BE LAID WITH TYPE I BEDDING UNDER 4.5m OF COVER AND TYPE II BEDDING OVER 4.5m OF COVER. CONCRETE PIPE SHALL BE LAID WITH CLASS B (B1 OR B2) BEDDING. ALL SEWER BACKFILL MUST BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY (MINIMUM) (100% FOR PAVED AREAS). REFER TO THE REGION OF WATERLOO'S DRAWING E1-01.
- CLASS B1 BEDDING (CRUSHED STONE) TO EXTEND FROM THE INLET AND OUTLET PIPES OF ANY MAINTENANCE HOLE FOR A DISTANCE OF 5.0m. REFER TO REGION OF
- ALL STORM AND SANITARY SEWERS/SERVICES LEADS SHALL HAVE APPROVED RUBBER GASKET JOINTS + BE INSTALLED USING A LASER LEVEL. 9. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES.
- 10. MAINTENANCE HOLES TO BE CONSTRUCTED OF PRE-CAST CONCRETE. ALL MAINTENANCE HOLES TO BE INSTALLED IN ACCORDANCE WITH THE ONTARIO PROVINCIAL STANDARDS (OPSD) DIVISION 700 DETAILS AND REQUIREMENTS, SEE LIST OF COMMON DETAILS. ALL STRUCTURES TO BE DESIGNED TO RESIST BUOYANCY IF REQUIRED.
- 11. ENSURE MINIMUM OF 1 ADJUSTMENT UNIT FOR ALL STRUCTURES. MAXIMUM TOTAL ADJUSTMENT UNITS HEIGHT: 300mm. 12. RUNG SPACING IN MAINTENANCE HOLES TO BE 300mm MIN. AND A MAX. OF 600mm DISTANCE BETWEEN THE LID AND THE FIRST RUNG.
- 13. ALL SUBSTITUTIONS MUST BE APPROVED BY THE MANAGER OF ENGINEERING. 14. THE ELEVATION OF THE GROUND WATER TABLE IS UNKNOWN. CONTRACTOR TO ADVISE SBM IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION OPERATIONS: FURTHER REVIEW/INVESTIGATION BY A GEOTECHNICAL ENGINEER MAY BE REQUIRED. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION OPERATIONS, CIVIL STRUCTURES ARE TO BE DESIGNED FOR HYDROSTATIC PRESSURE AND UPLIFT/BUOYANCY FORCES. PROVIDE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO FOR REVIEW.

ISSUED FOR CLIENT REVIEW

ISSUED FOR TENDER



DESIGN LS/JSF

APPROVED LS/NGu

DATE 10/02/2021

cad 20-4137

CHECKED

UTILITIES NOTES:

- ALL WORK FOR COORDINATION, DESIGN, AND CONSTRUCTION OF UTILITIES IS BY OTHERS. SBM DESIGN AND DRAWINGS ARE FOR MUNICIPAL SERVICING ONLY. ANY UTILITY INFORMATION SHOWN IS FOR REFERENCE/COORDINATION PURPOSES ONLY AND MAY NOT BE ACCURATE.
- THE UTILITIES COORDINATING COMMITTEE MUST BE INFORMED AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION ON ANY EXISTING MUNICIPAL ROAD ALLOWANCE. ALL EXISTING UNDERGROUND SERVICE OR UTILITIES WITHIN THE LIMITS OF THE CONSTRUCTION SITE SHALL BE LOCATED AND MARKED. ANY UTILITIES, DAMAGED OR
- DISTURBED DURING CONSTRUCTION. SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE GOVERNING BODY AT THE CONTRACTOR'S EXPENSE. ALL EXISTING UNDERGROUND UTILITY (TELEPHONE, HYDRO, GAS, CABLE, SEWER, WATERMAINS, ETC.) THAT WILL BE CROSSED UNDER DURING THE INSTALLATION OF SERVICES FOR THIS DEVELOPMENT SHALL BE SUPPORTED, AS MAY BE REQUIRED BY THE OWNERS OF THE UTILITY BEING CROSSED UNDER.
- OWNER'S CONTRACTOR TO LOCATE/FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. OWNER'S CONTRACTOR TO COORDINATE WITH UTILITIES PROVIDER FOR BRACING, DECOMMISSIONING AND/OR RELOCATION OF EXISTING GAS, HYDRO, TELEPHONE, CABLE, ETC. SERVICES, IF REQUIRED.

REFERENCE DOCUMENTS:

PROPOSED SWALE ELEVATION

EXISTING CATCH BASIN

PROPOSED CATCH BASIN

EXISTING CLEANOUT

PROPOSED CLEANOUT

MAINTENANCE HOLE

PROPOSED SWALE

PROPOSED SLOPE

 \bigcirc

 \bigcirc

2.0%

PROPOSED CATCH BASIN

EXISTING MAINTENANCE HOLE

PROPOSED MAINTENANCE HOLE

PROPOSED DRAINAGE DIRECTION

EXISTING OVERLAND FLOW ROUTE

PROPOSED OVERLAND FLOW ROUTI

PROPOSED SIGN, TYPE OF SIGN

LIST OF STANDARD DETAILS:

PRECAST CONCRETE MAINTENANCE HOLE, 1200mm DIAMETER

TIE ROD ASSEMBLY

APPROVED TIEROD (THREADED COR-TEN STEEL)

APPROVED TIEBOUT JOINT RESTRAINER

SHEET C

SHEET C2

SHEET C3

MILL EX. ASPH. SURFACE

500mm WIDE x 50mm DEEF

RESTRAINER

EXISTING WATERMAIN

APPROVED CLAM REQUIRED M.J. BEND

APPROVED TIENUT

M.J. SLEEVE

FOR D.I. AND P.V.C. PIPE

MINIMUM CLEARANCE AS PER M.E.C.P. WATERMAIN

SEWER OR OTHER

OBSTRUCTION

TYPICAL MECHANICAL JOINT OFFSET

SITE ENGINEERING PLAN

INSTALLATION USING TIEBOLT COUPLINGS

EXISTING CONDITIONS, REMOVALS, AND SEDIMENT & EROSION

HL3 FINISH ASPH

-HL8 BASE ASPH.

GRANULAR 'A'

GRANULAR 'B'

COMPACTED TO 97% MMDBD*

COMPACTED TO 97% MMDBD*

COMPACTED TO 100% SPMDD**

COMPACTED TO 100% SPMDD**

TOPOGRAPHIC INFORMATION, LEGAL LINEWORK, AND EXISTING SERVICING ONTARIO PROVINCIAL STANDARDS INFORMATION OBTAINED FROM PLANS BY MACDONALD AND TAMBLYN LORD OPSD 219.110 OPSD 310.010 CONCRETE SIDEWALK

SURVEYING DRAWING NO. 20-40-014-00 DATED JANUARY 20, 2021. EXISTING UTILITY/SERVICING INFORMATION OBTAINED FROM PLANS BY ONSITE OPSD 401.010 CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES LOCATES REFERENCE NUMBER 20-46-30781 DATED FEBRUARY 18, 2021. CONCRETE BARRIER CURB WITH STANDARD GUTTER OPSD 600 040

OPSD 701.010

LIST OF ITEMS REQUIRING ENGINEER'S **REVIEW** NOTE: CONTRACTOR TO PROVIDE MIN. 48 HOURS NOTICE PRIOR TO LEGEND: REQUESTED FIELD REVIEW TIME. EROSION AND SEDIMENT CONTROL MEASURES, UPON COMPLETION **EXISTING SPOT ELEVATION** SERVICING IN MUNICIPAL RIGHT-OF-WAY (R.O.W.), EXISTING AND EXISTING SPOT ELEVATION FUTURE, DURING CONSTRUCTION (TO REMAIN) 271.00 PROPOSED SPOT ELEVATION

GRADING - CURB & GUTTER STRINGLINE. PRIOR TO CURB INSTALLATION LIST OF SUBMITTALS NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING **MATERIALS** SHOP DRAWINGS - SANITARY STRUCTURES PRODUCT SPECIFICATIONS - SANITARY SEWER ASPHALT JOB MIX FORMULA(E) CONCRETE (CURB AND SIDEWALK) MIX DESIGN(S) GRANULAR 'A' AND 'B' SIEVE ANALYSIS' EXCESS FILL - DUMP SITE INFORMATION AND MATERIAL TESTING REPORT - ENGINEERED FILL SOURCE LETTER (RE CONTAMINANTS. MATERIAL TESTING REPORT - ENGINEERED FILL COMPACTION

MATERIAL TESTING REPORT - GRANULAR

COMPACTION

MATERIAL TESTING REPORT - CONCRETE

CYLINDERS

MATERIAL TESTING REPORT - ASPHALT

COMPACTION

MATERIAL TESTING REPORT - ASPHALT

SAMPLES

AS-BUILT SURVEY FOR EARTHWORKS

QUANTITIES

CCTV OF SANITARY SEWERS

20.0-3000 ST @ 1.0% EXISTING STORM SEWER MATERIAL TESTING REPORT - ENGINEERED 20.0-3006 ST • 1.0% PROPOSED STORM SEWER FILL PLAN MATERIAL TESTING REPORT - SUBGRADE 20.0-150 SA @ 1.0% EXISTING SANITARY SEWER COMPACTION/PREPARATION

-1509 SA 6 1.0	PROPOSED SANITARY SEWER
150 PVC WSC	EXISTING WATERMAIN
150 PVC WSC	PROPOSED WATERMAIN
	EXISTING FIRE HYDRANT
- -	PROPOSED FIRE HYDRANT
\otimes	EXISTING WATER VALVE
\otimes	PROPOSED WATER VALVE
M	EXISTING WATER METER
W	PROPOSED WATER METER
©	PROPOSED CURB STOP
_	PROPOSED SUMP PUMP (SEE

PROPOSED RAMP TOP OF CURB BOTTOM OF CURB GROUND ELEVATION AT TOP OF RETAINING WALL GROUND ELEVATION AT

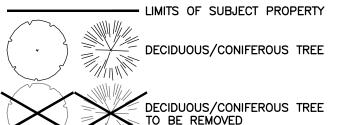
ARCHITECTURAL DRAWINGS)

BOTTOM OF RETAINING WALL TOP OF LID

BUILDING ENTRANCE OVERHEAD DOOR PROPOSED LIGHT-DUTY ASPHALT

PROPOSED HEAVY-DUTY ASPHALT PROPOSED CONCRETE PROPOSED RETAINING WALL (DESIGNED BY OTHERS)

MILL/PAVE LAP JOINT AS PER DETÁIL ON THIS PAGE LIMITS OF DRAINAGE AREA PROPOSED SILT SACK PROPOSED STRAW BALE BARRIER EXISTING BUILDING PROPOSED BUILDING PROPOSED TREE



PRESERVATION FENCE

STRIK BALDINELLI N.A. GUIOTRUBIANO 100147337

P: 416.203.7600

N.T.S.

LGA ARCHITECTURAL PARTNERS 310 SPADINA AVENUE, SUITE 100B TORONTO, ON

500mm

ELMIRA SECONDARY SCHOOL

4 UNIVERSITY AVENUE WEST ELMIRA, ON.

NOTES, LEGEND, AND DETAILS

BRUBACHER ST SUBJECT

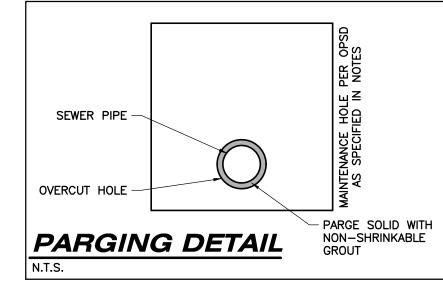
KEY PLAN

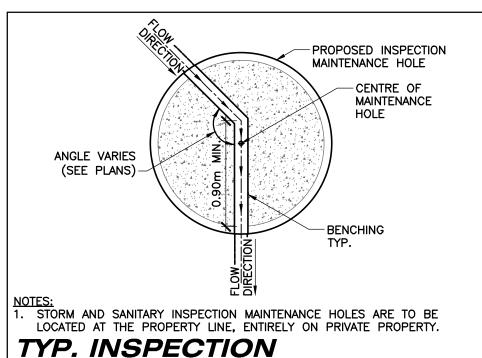
LEGAL INFORMATION

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





BENCHING DETAIL LIST OF DRAWINGS SEE SURFACE WORKS NOTE 2 ON SHEET C1 FOR PAVEMENT NOTES, LEGEND, AND DETAILS

SITE BENCHMARK:

GEODETIC ELEVATION: 362.940m (CGVD28:78)

GEODETIC ELEVATION: 362.937m (CGVD28:78)

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

LOCATION: TWO STOREY RED BRICK HOUSE (#254) ON THE WEST SIDE OF WATERLOO REG RD 21, 1.3 KM SOUTH OF JCT

OF WATERLOO REG RD 86 AND 21 IN ELMIRA, 1.3 KM NORTH

OF THE JCT OF WATERLOO REG RD 21 AND HYWS 85 AND

61.0 M WEST OF CENTERLINE OF WATERLOO REG RD 21

TABLET IS SET HORIZONTALLY IN SOUTH FACE OF CONCRETE

FOUNDATION, 4.08 M WEST OF W.E. CORNER AND 12 CM

LOCATION: RED BRICK CHURCH (EMMANUEL MISSIONARY) ON THE WEST SIDE OF WATERLOO REG RO 21, 0.8 KM SOUTH OF

THE JCT OF WATERLOO REG RDS 86 AND 21 IN ELMIRA, 1.8

KM NORTH OF THE JCT OF WATERLOO REG RD 21 AND HWYS

85 AND 86, 27.4 M NORTH OF CENTERLINE OF FIRST ST AND

16.9 M WEST OF CENTERLINE OF WATERLOO REG RD 21.

TABLET IS SET HORIZONTALLY IN EAST FACE OF CONCRETE

FOUNDATION, 91 CM SOUTH OF N.E. CORNER AND 27 CM

86. 42.0 M SOUTH OF CENTERLINE OR ORIOLE PKWY AND

MONUMENT TYPE: BENCHMARK

MONUMENT TYPE: BENCHMARK

BELOW BRICKWORK.

RESTRAINER ASSEMBLY

FOR P.V.C. PIPE

IE ROD ASSEMBLY USING CLAMP

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SHOWN.

2. THIS DETAIL TO BE USED FOR OFFSETS ON 100, 150 &

200 DIA: MAINS, OFFSETS ON LARGER MAINS REQUIRE

3. IF OFFSET IS INSTALLED IN HORIZONTAL OR INVERTED

5. COVER TIEBOLT ASSEMBLY WITH DENSO PASTE MASTIC

AND TAPE ALL TO MANUFACTURER'S SPECIFICATIONS.

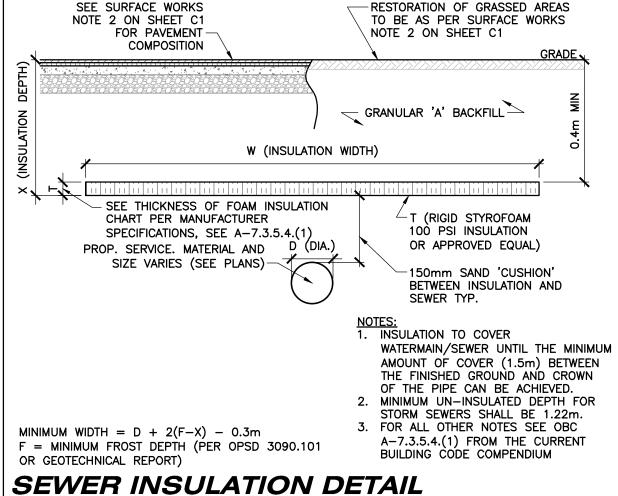
POSITION, MINIMUM COVER TO BE DECIDED BY ENGINEER. 4. ONE PAIR OF 20mm DIA. RODS FOR 100, 150 & 200 DIA. PIPE.

6. ALL RESTRAINERS MUST BE APPROVED BY THE REGION OF

1300-C RESTRAINER

SPECIAL LONG T-BOLT

BRICKWORK



MAINTENANCE HOLE

M5T 2E8

E: jose@lga-ap.com

-EX. PAVEMENT

TACK COAT

STRUCTURE

EX. EDGE OF PAVEMENT TO BE

PRIOR TO PLACEMENT OF ASPH.

SAWCUT AND TACK COATED

NOTE:
REFER TO SURFACE WORKS NOTE 2 ON SHEET C1 FOR PAVEMENT COMPOSITION

*MARSHALL MIX DESIGN BULK DENSITY (MMDBD)

**STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD)

PAVEMENT MILLING DETAIL

PLAN FILE No.

SBM-20-4137

1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8 Tel: (519) 471-6667 Fax: (519) 471-0034 Email: sbm@sbmltd.ca

D/M/Y

26/02/21

15/03/21 JSF

SEDIMENT & EROSION CONTROL MEASURES: SITE BENCHMARK: <u>OFF—SITE WORKS NOTE:</u> PERMIT OF APPROVED WORKS FOR ALL EXTERNAL WORKS IS REQUIRED. **UTILITIES NOTE:** TOPSOIL STOCKPILE SIZES/LOCATIONS TO BE DETERMINED IN THE FIELD. SILT FENCE FOR CLARITY, NOT ALL EXISTING UTILITIES MAY BE SHOWN. THE OWNER'S CONTRACTOR SHALL BE CONSTRUCTED ÁT TOE OF DOWNGRADE EDGES OF TOPSOIL STOCKPILE IS RESPONSIBLE FOR OBTAINING ALL UTILITY LOCATES PRIOR TO CONSTRUCTION. BRUBACHER PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION. MONUMENT TYPE: BENCHMARK SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED AT COMPLETION OF PROJECT (FOLLOWING *EXISTING SERVICING NOTE:
INVERTS OF THE EX. SANITARY & STORM SEWERS © CONNECTION POINTS SHALL BE ALL NATIVE FILL PLACED SHALL MEET THE REQUIREMENTS FOR ENGINEERED FILL, LOCATION: TWO STOREY RED BRICK HOUSE (#254) ON THE SEDIMENT AND EROSION CONTROL MEASURES MAY ONLY BE REMOVED UPON COMPLETION OF BASE ASPHALT AND SOD). COMPACTED TO 100% SPMDD OR AS OUTLINED IN THE GEOTECHNICAL REPORT. WEST SIDE OF WATERLOO REG RD 21, 1.3 KM SOUTH OF STABILIZATION OF CONTRIBUTING CATCHMENT AREA AND SUBJECT TO APPROVAL OF MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION. CONFIRMED BY THE OWNER'S CONTRACTOR PRIOR TO THE START OF ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED LOCATION. JCT OF WATERLOO REG RD 86 AND 21 IN ELMIRA, 1.3 KM ENGINEER/MUNICIPALITY. CONSTRUCTION/ORDERING STRUCTURES. THE CONSULTANT IS TO BE INFORMED IF NORTH OF THE JCT OF WATERLOO REG RD 21 AND HYWS BOULEVARD AREAS AND CONCRETE SIDEWALKS DISTURBED DURING INSTALLATION OF MINIMIZE AREA DISTURBED DURING CONSTRUCTION. DIFFERENT THAN NOTED. 85 AND 86, 42.0 M SOUTH OF CENTERLINE OR ORIOLE ALL DEWATERING TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN. SERVICES SHALL BE RESTORED TO MATCH EX. CONDITION OR SURFACE WORKS NOTES UNLESS OTHERWISE NOTED ON THE PLANS, GEOTEXTILE SHALL BE NON-WOVEN TO PKWY AND 61.0 M WEST OF CENTERLINE OF WATERLOO ON SHEET C1, WHICHEVER IS GREATER, ALL AT NO COST TO THE MUNICIPALITY. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH RESTORATION NOTE:
ALL WORK IN THE ROAD ALLOWANCE SHALL MEET THE MINIMUM SPECIFICATIONS OF MEET CLASS 2-OPSS 1860.07.02 (I.E. TERRAFIX 270R, OR APPROVED EQUAL) WITH REG RD 21. TABLET IS SET HORIZONTALLY IN SOUTH FACE GEOTEXTILE FABRIC (TERRAFIX 270 R), SILT SACKS, OR APPROVED EQUAL. 300mm MIN. OVERLAPS. OF CONCRETE FOUNDATION, 4.08 M WEST OF W.E. CORNER KEEP ALL SUMPS CLEAN DURING CONSTRUCTION. DISPOSAL NOTE: THE REGION OF WATERLOO ENVIRONMENTAL AND ENGINEERING SERVICES DEPARTMENT. AND 12 CM BRICKWORK. PREVENT WIND-BLOWN DUST. ALL ITEMS NOTED AS "TO BE REMOVED" SHALL BE DISCARDED OFF-SITE AT AN THE GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS, STANDARD SILT SACKS (OR APPROVED EQUAL) SHALL BE INSTALLED AND MAINTAINED IN ALL OF THE ABOVE NOTES AND ANY SEDIMENT & EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE APPROVED FACILITY. SPECIFICATIONS. STANDARD SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR UNIT IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT GEODETIC ELEVATION: 362.940m (CGVD28:78) EXISTING CB's AND PROPOSED CB'S AND CBMH'S FOR DURATION OF PROJECT UNTIL PRICE CONTRACTS AND THE REGION OF WATERLOO AND AREA MUNICIPALITIES DESIGN CONTROL FOR URBAN CONSTRUCTION SITES. SURFACES ARE PAVED AND BOULEVARDS ARE SODDED. GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS ARE TO BE APPLIED TO WORKS SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE INSPECTED WEEKLY OR FOLLOWING SIGNIFICANT (CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS) OWNER'S CONTRACTOR TO CLEAR AND GRUB SITE PRIOR TO CONSTRUCTION AND WITHIN THE MUNICIPAL ROAD ALLOWANCE UNLESS OTHERWISE APPROVED BY THE RAINFALL EVENTS. DISPOSE OF ALL DEBRIS AND EXCESS FILL/TOPSOIL OFF-SITE AT AN APPROVED SILT FENCE TO BE CONSTRUCTED ON PROPERTY LINE. LINE WORK IS SHOWN AS 12. ON-SITE SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE REVIEWED AND MODIFIED TO MEET THE OFFSET FOR CLARITY MONUMENT TYPE: BENCHMARK CHANGING SITE. SITE PREPARATION NOTE:
THIS PLAN HAS BEEN PREPARED TO IDENTIFY REMOVALS, EROSION & SEDIMENT SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REPAIRED WITHOUT DELAY BY THE OWNERS THE OWNER'S CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN CONTRACTOR AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR/ENGINEER AT NO EXPENSE TO THE OWNER. OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR REGULAR MONITORING & LOCATION: RED BRICK CHURCH (EMMANUEL MISSIONARY) MUD MATS TO BE PROVIDED ON-SITE AT CONSTRUCTION ENTRANCE LOCATIONS WHERE CONSTRUCTION ON THE WEST SIDE OF WATERLOO REG RO 21, 0.8 KM | KEY PLAN CONTROL MEASURES AND TEMPORARY CONSTRUCTION WORKS FOR THE BENEFIT OF COMPLIANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 FOR ALL WORKS WITHIN CLEANUP OF TRACKED MUD/DEBRIS ON ADJACENT LANDS & PUBLIC ROADS TO THE VEHICLES EXIT THE SITE. MUD MAT SHALL BE A MINIMUM OF 6.7m WIDE, 11.0m LONG (LENGTH MAY VARY SOUTH OF THE JCT OF WATERLOO REG RDS 86 AND 21 IN THE OWNER'S CONTRACTOR IN ADVANCE OF SERVICING WORKS. IT IS NOT INTENDED THE MUNICIPAL RIGHT-OF-WAY. THE OWNER'S OWNER'S CONTRACTOR SHALL SUBMIT SATISFACTION OF THE ENGINEER/MUNICIPALITY. TO IDENTIFY PERMANENT GRADING PATTERNS. DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR ELMIRA, 1.8 KM NORTH OF THE JCT OF WATERLOO REG RD TRAFFIC CONTROL PLANS TO THE MUNICIPALITY/ENGINEER FOR REVIEW PRIOR TO APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT 21 AND HWYS 85 AND 86, 27.4 M NORTH OF CENTERLINE PROCEEDING WITH CONSTRUCTION OWNER'S CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID MIXING OF FIRST ST AND 16.9 M WEST OF CENTERLINE OF STORM DRAINAGE NOTE: STORM DRAINAGE MAY TEMPORARILY NEED TO BE CONTROLLED AND PUMPED FROM IT IS MAINTAINED IN A MANNER TO MAXIMIZE ITS EFFECTIVENESS AT ALL TIMES. TOPSOIL WITH SUBSOIL, WHERE REQUIRED FOR REUSE ON-SITE. LEGAL INFORMATION WATERLOO REG RD 21. TABLET IS SET HORIZONTALLY IN EAST FACE OF CONCRETE FOUNDATION, 91 CM SOUTH OF STORM SEWER SYSTEM. ANY SUCH TEMPORARY MEASURES SHALL BE CONDUCTED AT N.E. CORNER AND 27 CM BELOW BRICKWORK. NO EXTRA COST TO THE CONTRACT AND BE BASED UPON THE OWNER'S PLAN 76 CONTRACTOR'S WATER CONTROL PLANS. WHICH MUST BE APPROVED BY THE GEODETIC ELEVATION: 362.937m (CGVD28:78) CONTRACT ADMINISTRATOR/ENGINEER PRIOR TO CONSTRUCTION. LOT 32 TO LOT 40 PT LOT 31 (CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS) LOT 23 TO LOT 30 CLOSED KLINCK ST IN THE TOWN OF WOOLWICH EX. ASPHALT PARKING LOT REGION MUNICIPALITY OF WATERLOO EX. B.F. EX. WOODEN EX. PORTABLE CLASSROOM EXISTING BUILDING 0.6 DIA EX. PORTABLE CLASSROOM 0.85 ,DIA 0.7, DIA O.4 DIA INV.=360.40 EXISTING ±54.6m-200ø SANITARY SEWER @ ±0.37% SILT FENCE PER OPSD 219-110 HATCHING DENOTES APPROXIMATE EXTENT EX. DIVIDER WALL S OF EXISTING LANDSCAPED AREA TO BE DISTURBED AND RESTORED PER SURFACE WORKS NOTES ON SHEET C1 AS REQUIRED EXISTING ±54.6m-200ø SANITARY SEWER @ ±0.37% FOR INSTALLATION OF SANITARY DIVERSION EX. PORTABLE CLASSROOM SEWER. ALL ADDITIONAL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AT NO COST TO THE CONTRACT. N POOR EXISTING MAINTENANCE HOLE CURB CUT TO BE PROVIDED EXISTING BOARD FENCE TO AT SITE ACCESS MUD MAT. EX. PORTABLE CLASSROOM BE REMOVED AND THICKER LINEWORK DENOTES RE-INSTALLED AS REQUIRED SILT FENCE PER OPSD 219-110 (TO BE APPROXIMATE EXTENT OF 11.0m LONG x 6.7m WIDE INSTALLED ON AGAINST PORTABLE FOR INSTALLATION OF CURB & GUTTER (ASSUMED SANITARY SEWER CLASSROOM, SHOWN OFFSET FOR CLARITY) OPSD 600.040) TO BE REMOVED AND RÉSTORED - SILT FENCE PER EXISTING HYDRO POLE TO BE MUD MAT PER SEDIMENT & RELOCATED FOR SANITARY OPSD 219-110 EROSION CONTROL MEASURES INSTALLATION (FUTURE NOTES ON THIS SHEET LOCATION BY OTHERS) 300 THICK - 200ø MIRAFI P-250 EX. 2-2" PHONE LINE (LOCATION CLEAR STONE -FILTER FABRIC -TEMPORARY MUD MAT DETAIL EX. ASPHALT WALKWAY EX. ASPHALT WALKWAY EX \ CSW EXISTING SANITARY SERVICE TO 50x50x1200mm WOOD STAKE TYP.-BE CAPPED AT BUILDING FACE -50x50x1200mm (SANITARY TO BE ABANDONED WOOD STAKE TYP. IN PLACE) -EXISTING LOCATION OF UTILITIES AND 000R SILL 363.48 SERVICING FROM PLANS BY ONSITE LOCATES, SEE REFERENCE DOCUMENT - GEOTEXTILE HATCHING DENOTES HATCHING DENOTES APPROXIMATE EXTENT OF EXISTING ASPHALT OR GEOTEXTILE TO BE 1 ON SHEET C1 (TYP), SBM TO BE APPROXIMATE EXTENT SIDEWALK TO BE REMOVED AND REPLACED WITH CONCRETE PER SURFACE SECURELY STAPLED/ NOTIFIED TO ADJUST PROPOSED OF 0.50m WIDE LAP WORKS NOTES ON SHEET C1 AS REQUIRED FOR INSTALLATION OF SANITARY FASTENED TO 50x50x JOINT PER DETAIL SANITARY ALIGNMENT AS REQUIRED. DIVERSION SEWER. ALL ADDITIONAL AREAS DISTURBED DURING CONSTRUCTION *ASSUMED EXISTING 150 SANITARY SEWER 1200mm WOOD STAKES-SHALL BE RESTORED AT NO EXTRA COST TO THE CONTRACT. ON SHEET C1 DIRECTION OF FLOW EXISTING SANITARY SERVICE TO BE EXISTING BUILDING CAPPED AT BUILDING FACE (SANITARY → 200mm TO BE ABANDONED TO BE PARGED SOLID WITHIN THE BUILDING AND GEOTEXTILE TO BE ABANDONED IN PLACE OUTSIDE) BURIED AS SHOWN *ASSUMED EXISTING 200Ø EXISTING SANITARY CLEANOUT SANITARY SEWER (LOCATION TO BE CONFIRMED) [≟] 200mm *ASSUMED EXISTING 150¢ SANITARY SEWER EXISTING SANITARY CLEANOUT (LOCATION TO BE CONFIRMED) SILT FENCE PER OPSD PROPOSED CONCRETE 219-110 (TO BE INSTALLED SIDEWALK TO BE EXISTING SANITARY SERVICE TO ON BACK OF CURB, SHOWN 2.3m MAX SPACING RAMPED TO EXISTING BE CAPPED AT BUILDING FACE GYMNASIUM RESTORATION BY OFFSET FOR CLARITY) EXISTING RAMP TO BE REMOVED AND BETWEEN STAKES DOOR SILL. (SANITARY TO BE ABANDONED OTHERS, ONLY INTERNAL PLUMBING REPLACED AFTER CONSTRUCTION -WATERPROOFING O BE FILLED WITH ENTERING OR EXITING THE $\stackrel{<}{-}$ EXISTING BLOCK PAVERS TO BE REMOVED, SIDE VIEW FRONT ELEVATION REQUIREMENT TO BE NON-SHRINKABLE GROUT SOLID BUILDING SHOWN, SEE MECHANICAL RESTORE EXISTING SIDEWALK SALVAGED, AND RELAID AFTER CONSTRUCTION, CONFIRMED BY THE WITHIN THE BUILDING AND DRAWINGS (BY OTHERS). CONTRACTOR TO INCLUDE APPROPRIATE SUBBASE SILT FENCE DETAIL ABANDONED IN PLACE OUTSIDE) FOR REINSTALLATION (APPROXIMATE EXTENTS) REFERENCE: OPSD 219.110 AS CONSTRUCTED SERVICES COMPLETION REVISIONS D/M/YSTRIK BALDINELLI EXISTING CONDITIONS, REMOVALS, AND LGA ARCHITECTURAL PARTNERS SBM-20-4137 ISSUED FOR CLIENT REVIEW 26/02/21 JSF DESIGN LS/JSF SEDIMENT & EROSION CONTROL PLAN ISSUED FOR TENDER 15/03/21 JSF 310 SPADINA AVENUE, SUITE 100B SCALE - 1:200 2.0 0 4.0m CHECKED TORONTO, ON ELMIRA SECONDARY SCHOOL N.A. GUIOTRUBIANO APPROVED LS/NGu C2 100147337 DATE 09/02/2021 M5T 2E8 4 UNIVERSITY AVENUE WEST 1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8 P: 416.203.7600 cad 20-4137 PLAN FILE No. Tel: (519) 471-6667 Fax: (519) 471-0034 ELMIRA, ON. E: jose@lga-ap.com Email: sbm@sbmltd.ca

WATERMAIN & SEWER CROSSING NOTE:

1. UNDER PRACTICAL CONDITIONS, WATERMAINS SHALL CROSS ABOVE SEWERS WITH SUFFICIENT VERTICAL SEPARATION TO ALLOW FOR PROPER BEDDING AND

STRUCTURAL SUPPORT OF THE WATERMAIN AND SEWER. WHEN IT IS NOT POSSIBLE FOR THE WATERMAIN TO CROSS ABOVE THE SEWER, THE WATERMAIN PASSING UNDER A SEWER SHALL BE PROTECTED BY: PROVIDING A VERTICAL SEPARATION OF AT LEAST 0.5 METRES BETWEEN THE

INVERT OF THE SEWER AND THE CROWN OF THE WATERMAIN; PROVIDING ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING; AND

ENSURING THAT THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.

REFERENCE: JUNE 2012 MINISTRY OF THE ENVIRONMENT'S 'WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATION AUTHORIZED UNDER A DRINKING WATER WORKS

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

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

OWNER'S CONTRACTOR SHALL SUPPORT ALL EXISTING UTILITIES AS REQUIRED DURING THE INSTALLATION OF SERVICES TO THE SATISFACTION OF THE UTILITY OWNER AT NO EXTRA COST TO THE CONTRACT.

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

BOULEVARD AREAS AND CONCRETE SIDEWALKS DISTURBED DURING INSTALLATION OF SERVICES SHALL BE RESTORED TO MATCH EX. CONDITION OR SURFACE WORKS NOTES ON SHEET C1, WHICHEVER IS GREATER, ALL AT NO COST TO THE MUNICIPALITY.

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

*EXISTING SERVICING NOTE: 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 THÁN 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

SUMP PUMP AND DRAIN LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO ARCHITECTS PLANS FOR SUMP PUMP DESIGN.

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

OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CONSTRUCTION MEASURES SUCH AS, BUT NOT LIMITED TO, PIPE COVER AT NO ADDITIONAL CHARGE TO THE CONTRACT.

PROCEEDING WITH CONSTRUCTION.

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.

THE SUBJECT SITE HAS BEEN DESIGNED UNDER A SINGLE OWNERSHIP. IF ONE OF THE LAND PARCELS IS SOLD TO ANOTHER OWNER, AN ECA FOR SHARED SEWER WILL BE REQUIRED FROM THE M.E.C.P..

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

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

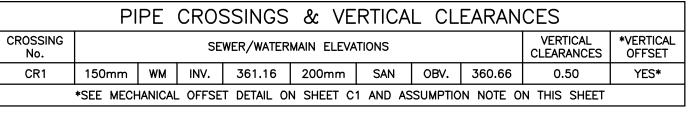
INSULATION NOTE:
INSULATE SEWERS + WATER PIPES AS PER THE ONTARIO BUILDING CODE A-7.3.5.4.(1) FROM THE CURRENT BUILDING CODE COMPENDIUM WHERE 1.70m (1.22m FOR ON-SITE SEWERS) COVER CAN NOT BE PROVIDED.

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

NOTE: ALL THE SERVICING SHOWN INSIDE THE SUBJECT PROPERTY IS DIRECTLY DERIVED FROM THE DRAWINGS PROVIDED BY LGA ARCHITECTS IN EMAIL DATED

NOVEMBER 23, 2020 AND IS NOTED AS "ASSUMED"

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



EX. ASPHALT PARKING LOT

EX. PORTABLE CLASSROOM

DOOR SILL 364.23

W EX. WELL

363.73

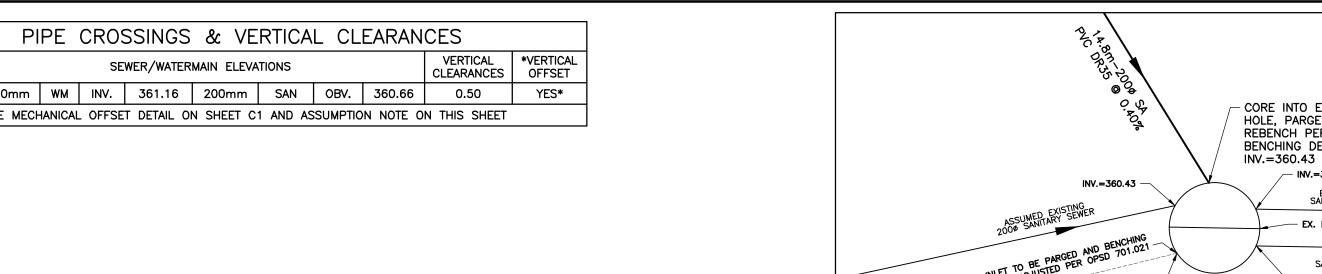
45¢ LONG

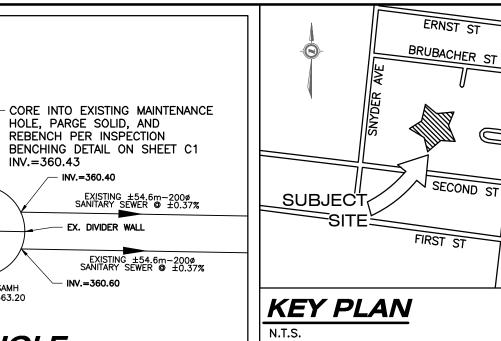
SA INVERT=361.26 RADIUS SWEEP

363.74

(TO BE CONFIRMED BY

MECHANICAL ENGINEER)





KEY PLAN

LEGAL INFORMATION

PART OF PLAN 76 LOT 32 TO LOT 40 PT LOT 31 LOT 23 TO LOT 30 CLOSED KLINCK

> TOWN OF WOOLWICH REGION MUNICIPALITY OF WATERLOO

SITE BENCHMARK:

MONUMENT TYPE: BENCHMARK

LOCATION: TWO STOREY RED BRICK HOUSE (#254) ON THE WEST SIDE OF WATERLOO REG RD 21, 1.3 KM SOUTH OF JCT OF WATERLOO REG RD 86 AND 21 IN ELMIRA, 1.3 KM NORTH OF THE JCT OF WATERLOO REG RD 21 AND HYWS 85 AND 86. 42.0 M SOUTH OF CENTERLINE OR ORIOLE PKWY AND 61.0 M WEST OF CENTERLINE OF WATERLOO REG RD 21. TABLET IS SET HORIZONTALLY IN SOUTH FACE OF CONCRETE FOUNDATION, 4.08 M WEST OF W.E. CORNER AND 12 CM

GEODETIC ELEVATION: 362.940m (CGVD28:78)

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

MONUMENT TYPE: BENCHMARK

LOCATION: RED BRICK CHURCH (EMMANUEL MISSIONARY) ON THE WEST SIDE OF WATERLOO REG RO 21, 0.8 KM SOUTH OF THE JCT OF WATERLOO REG RDS 86 AND 21 IN ELMIRA, 1.8 KM NORTH OF THE JCT OF WATERLOO REG RD 21 AND HWYS 85 AND 86, 27.4 M NORTH OF CENTERLINE OF FIRST ST AND 16.9 M WEST OF CENTERLINE OF WATERLOO REG RD 21. TABLET IS SET HORIZONTALLY IN EAST FACE OF CONCRETE FOUNDATION, 91 CM SOUTH OF N.E. CORNER AND 27 CM BELOW BRICKWORK.

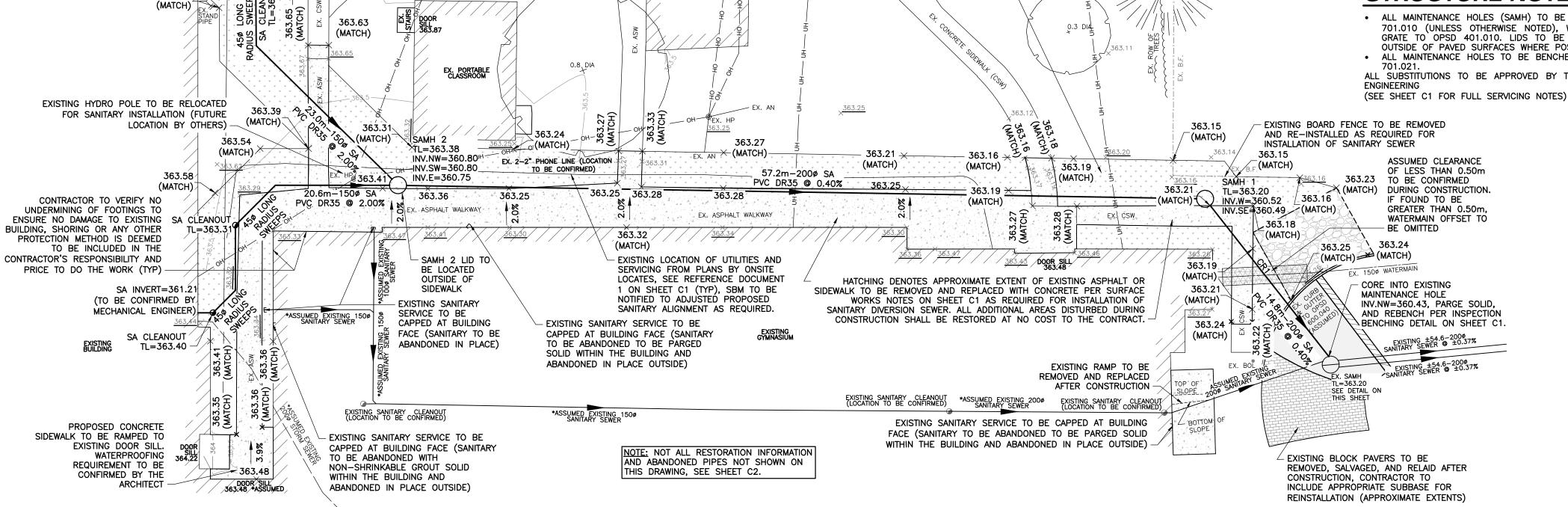
GEODETIC ELEVATION: 362.937m (CGVD28:78)

(CONTRACTOR TO CONFIRM BENCHMARK ELEVATIONS)

STRUCTURE NOTES:

 ALL MAINTENANCE HOLES (SAMH) TO BE 1200Ø TO OPSD 701.010 (UNLESS OTHERWISE NOTED), WITH FRAME AND GRATE TO OPSD 401.010. LIDS TO BE LOCATED TO BE OUTSIDE OF PAVED SURFACES WHERE POSSIBLE. ALL MAINTENANCE HOLES TO BE BENCHED AS PER OPSD

ALL SUBSTITUTIONS TO BE APPROVED BY THE MANAGER OF



EX. PORTABLE CLASSROOM

EX. PORTABLE CLASSROOM

= 1									
A Arch	AS CONSTRUCTED SERVICES	COMPLETION			No.	REVISIONS	D/M/Y	BY	CONSUL
75			DESIGN	LS/JSF	1	ISSUED FOR CLIENT REVIEW	26/02/21	JSF	
13/			DRAWN	JSF	2	ISSUED FOR TENDER	15/03/21	JSF	
4-0			CHECKED	LS					
7-1			APPROVED) LS/NGu					
SBN			DATE	10/02/2021					
SQC									
γ O			CAD	20-4137					
707									
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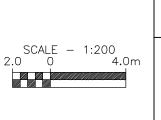


Email: sbm@sbmltd.ca



LGA ARCHITECTURAL PARTNERS 310 SPADINA AVENUE, SUITE 100B TORONTO, ON M5T 2E8

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



EXISTING MAINTENANCE HOLE

0.6 DIA

0.6 DIA

0.85 DIA

EX. B.F.

EX. WOODEN BARN

SCALE 1:50

HATCHING DENOTES APPROXIMATE EXTENT

DISTURBED AND RESTORED PER SURFACE

WORKS NOTES ON SHEET C1 AS REQUIRED

FOR INSTALLATION OF SANITARY DIVERSION

SEWER. ALL ADDITIONAL AREAS DISTURBED

RESTORED AT NO COST TO THE CONTRACT.

DURING CONSTRUCTION SHALL BE

OF EXISTING LANDSCAPED AREA TO BE

:	SERVICING PLAN	SBM-20
ELMIRA	SECONDARY SCHOOL	SHEET No.
4	UNIVERSITY AVENUE WEST	
	ELMIRA, ON.	PLAN FILE No.

GENERAL	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
[]R	EXISTING TO BE REMOVED FOR RELOCATION
R	EXISTING RELOCATED IN NEW WORK
	NEW WORK
CTE	CONNECT TO EXISTING
-lco	CLEAN OUT
——⊃ _{DN}	PIPE TURNING DOWN
 0	PIPE TURNING UP
Å	PRESSURE REDUCING VALVE
Û	ROOM THERMOSTAT
Θ	ROOM HUMIDISTAT
	PUMP
Ŕ	AUTOMATIC CONTROL VALVE - TWO WAY
Ř	AUTOMATIC CONTROL VALVE - THREE WAY
\bowtie	ISOLATION VALVE
	BALANCING VALVE
<u></u>	CHECK VALVE
$\overline{\triangleright}$	STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN
J	PIPE BRANCH OFF TOP
Ç	PIPE BRANCH OFF BOTTOM
X	RELIEF VALVE (PIPE TO DRAIN)
\Diamond	PRESSURE GUAGE
Ų	THERMOMETER
CAP	CAP

VENTILATION		
SYMBOL	DESCRIPTION	
₽ FD	FUSIBLE LINK FIRE DAMPER (DOUBLE LINE)	
FD	FUOIDLE LINK FIDE DAMPED (ONIOLE LINE)	
	FUSIBLE LINK FIRE DAMPER (SINGLE LINE)	
BDD	BACK DRAFT DAMPER (DOUBLE LINE)	
BDD	BACK DRAFT DAMPER (SINGLE LINE)	
BD	BALANCING DAMPER (DOUBLE LINE)	
₹——₹	BALANCING DAMPER (SINGLE LINE)	
600x300	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN	
	ROUND DUCTWORK - DIMENSION AS SHOWN	
₹ <u>600x300</u>	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)	
<u></u>	DUCT RISE (SINGLE LINE)	
MD □ ₹₹₹	MOTORIZED DAMPER	
∤	SUPPLY GRILLE	
-	EXHAUST/RETURN GRILLE	
	CEILING SUPPLY AIR DIFFUSER	
	CEILING EXHAUST/RETURN GRILLE	
 	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER	
<u>∤</u> }	DAMPER IN SUPPLY DUCT (DOUBLE LINE)	
<u> </u>	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE)	
O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (DOUBLE LINE)	
O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (SINGLE LINE)	
	FLEXIBLE DUCT CONNECTION	
A-200Ø-100 AIRFLOW IN L/s	DIFFUSER TAG	
A-100 AIRFLOW IN L/s	GRILLE TAG	
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)	
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)	
SL	SILENCER (ATTENUATOR)	
	FLEXIBLE DUCT (DOUBLE LINE)	
£/~	FLEXIBLE DUCT (SINGLE LINE)	
	DUCT TRANSITION FROM RECTANGULAR TO ROUND	
	RECTANGULAR DUCT BREAK	
	ROUND DUCT BREAK	
0		
_ 	SINGLE LINE DUCT BREAK	

SYMBOL	DESCRIPTION
— HWR— —	HEATING WATER RETURN
HWS-	HEATING WATER SUPPLY
— HGR — —	HEATING GLYCOL RETURN
HGS-	- HEATING GLYCOL SUPPLY
CNDR-	- CONDENSATE DRAIN
REFR-	- REFRIGERANT GAS
REFS-	- REFRIGERANT LIQUID
-G	- GAS
BB - XXX	ELECTRIC BASEBOARD HEATER OUTPUT AS SHOWN (KW)
ECH	ELECTRIC CABINET HEATER
CUH	CABINET HEATER
ÜH	UNIT HEATER
CV 1200-5.6	CONVECTOR - LENGTH - HEAT OUTPUT (KW)
WF 1200-5.6	WALL FIN - LENGTH - HEAT OUTPUT (KW)
——————————————————————————————————————	UNION
X	MANUAL AIR VENT
Ŷ	AUTOMATIC AIR VENT
== ==	EXPANSION COMPENSATOR
<u>== </u>	EXPANSION SWING
X	PIPE ANCHOR
==	PIPE GUIDE
	PIPE SLEEVE
≥	FLOAT & THERMOSTATIC TRAP
2	INVERTED BUCKET TRAP
≀ ≀	ELECTRIC TRACING
8C-600-1100 = 2.1	RADIANT PANEL - 8 DENOTES DEPTH, 600mm DENOTES HEIGHT, 1100mm DENOTES LENGTH & 2.1 HEAT OUTPUT (KW

CONTROLS	
SYMBOL	DESCRIPTION
SF	SUPPLY FAN
RF	RETURN EXHAUST FAN
EF	EXHAUST FAN
H/C	HEATING COIL
© C	COOLING COIL
P/C	PRE-HEAT COIL
	FILTERS
	HUMIDIFIER
•	THERMOMETER
SA	SUPPLY AIR
EA_	EXHAUST AIR
OA_	OUTDOOR AIR
- RA	RETURN AIR
MD /	MOTORIZED DAMPER
VFD	VARIABLE FREQUENCY DRIVE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
P EP	ELECTRO-PNEUMATIC SWITCH
PE PE	PRESSURE ELECTRIC SWITCH
Θ	HUMIDITY SENSOR
Φ	TEMPERATURE SENSOR
BAS	BUILDING AUTOMATED SYSTEM
Al	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
<u></u>	OCCUPANCY SENSOR

GENERAL NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS TO CONSULTANT FOR REVIEW AND DIRECTION.
- ENSURE THAT ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE. COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. INSTALL MECHANICAL EQUIPMENT IN SUCH A WAY AS TO PROVIDE ALL ACCESS REQUIREMENTS. REFER TO SHOP DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATIONS FOR ACCESS REQUIREMENTS. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER. PROVIDE ACCESS DOORS/PANELS TO BE AS SPECIFIED.
- PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE DEMOLITION AND THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
- 4. WELDING TO BE PERFORMED WITH STRINGENT ENVIRONMENTAL CONDITIONS FOR SMOKE AND FUME EVACUATION.
- 5. THE MECHANICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. ANY INFORMATION REGARDING ACCURATE MEASUREMENT OF THE BUILDING ARE TO BE TAKEN AT THE SITE. DO NOT SCALE THE DRAWINGS, AND DO NOT USE THE DRAWINGS FOR PREFABRICATION WORK.
- 6. FOR CLARITY, NOT ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. HAS BEEN SHOWN ON THE DRAWINGS. THE EXISTING EQUIPMENT, PIPES, DUCTS AND SERVICES ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS, SIZES AND DIMENSIONS SHALL BE DETERMINED ON SITE. WHERE INTERFERENCES EXIST, CONTRACTOR SHALL REROUTE THE NEW WORK TO SUIT THE EXISTING PIPING.
- 7. NOT ALL CONNECTIONS TO EQUIPMENT ARE SHOWN. REFER TO THE MANUFACTURERS LITERATURE FOR ALL PIPING CONNECTIONS.
- 8. CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL PIPING AND EQUIPMENT AS SHOWN ON THE DEMOLITION PLAN.
- 9. COORDINATE ALL TEMPORARY SHUT DOWNS WITH THE OWNER. PROVIDE ISOLATION VALVES AS REQUIRED.
- 10. SURVEY ALL AFFILIATED WORK AREAS AND REPORT ABNORMALITIES AND DISCREPANCIES TO CONSULTANT.
- 11. WHERE CEILING, FLOOR, WALL OR ROOF OPENINGS ARE REQUIRED TO RUN MECHANICAL AND ELECTRICAL SERVICES, INCLUDE ALL COSTS FOR REINSTATING THE CEILING, FLOOR, WALL, OR ROOF. SEAL ALL OPENINGS WITH APPROVED FIRE-STOPPING MATERIALS AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 12. HOUSEKEEPING PADS FOR EQUIPMENT SHALL BE AMPLY SIZED TO EXTEND A MINIMUM OF 4" BEYOND THE FOOTPRINT OF THE EQUIPMENT IT SUPPORTS.
- 13. IF ASBESTOS CONTAINING MATERIAL IS SUSPECTED OR IDENTIFIED IN THE WORK AREA AND REQUIRED TO BE HANDLED AS PART OF THE DEMOLITION PHASE OF THE PROJECT, CONTRACTOR SHALL HALT WORK AND INFORM CONSULTANT OF SUCH CONDITIONS. CONTRACTOR SHALL NOT PROCEED WITH DEMOLITION OF SUCH AREAS WITHOUT AUTHORIZATION BY CONSULTANT. REMOVAL OF SUCH MATERIALS TO ACCOMMODATE THE WORK DESCRIBED AND OUTLINED IN THESE DRAWINGS SHALL BE ARRANGED THROUGH THE OWNER. ASBESTOS ABATEMENT, IF ANY, IS EXCLUDED FROM THIS CONTRACT AND WILL BE HANDLED SEPARATELY BY OWNER.
- 14. ALL ABANDONED OR OBSOLETE MECHANICAL SERVICES SUCH AS VALVES, PIPING, EQUIPMENT, INSTRUMENTATION, ETC. SHALL BE REMOVED WITHIN THE WORK AREA TO FACILITATE ALL NEW MECHANICAL WORK. 15. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL PIPING, SERVICES AND EQUIPMENT INSTALLED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION
- SHALL BE AS PER THE SPECIFICATIONS AND OWNER REQUIREMENTS.
- 16. INSULATE ALL NEW PIPING AND AND ANY EXISTING PIPING WHERE INSULATION HAS BEEN REMOVED OR DAMAGED BY THIS WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 17. ALL PIPE WORK IN MECHANICAL ROOM TO BE TESTED FOR LEAKS WHEREVER NEW CONNECTIONS ARE MADE.
- 18. WHERE CONNECTIONS ARE MADE TO EXISTING SERVICES, CONTRACTOR SHALL MATCH ALL EXISTING PIPE SIZES UNLESS OTHERWISE NOTED.

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	



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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:

NO. DATE

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

DRAWING TITLE:

MECHANICAL LEGEND AND **DRAWING LIST**

PROJECT NO: ED-20-300 SCALE: AS SHOWN **DRAWN BY:**

PROJECT NORTH

REVIEWED BY:

DRAWING NO: M-001





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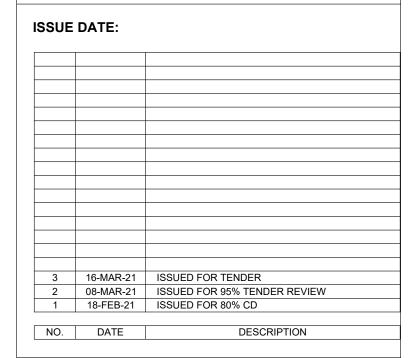
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PROJECT

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

DRAWING TITLE:

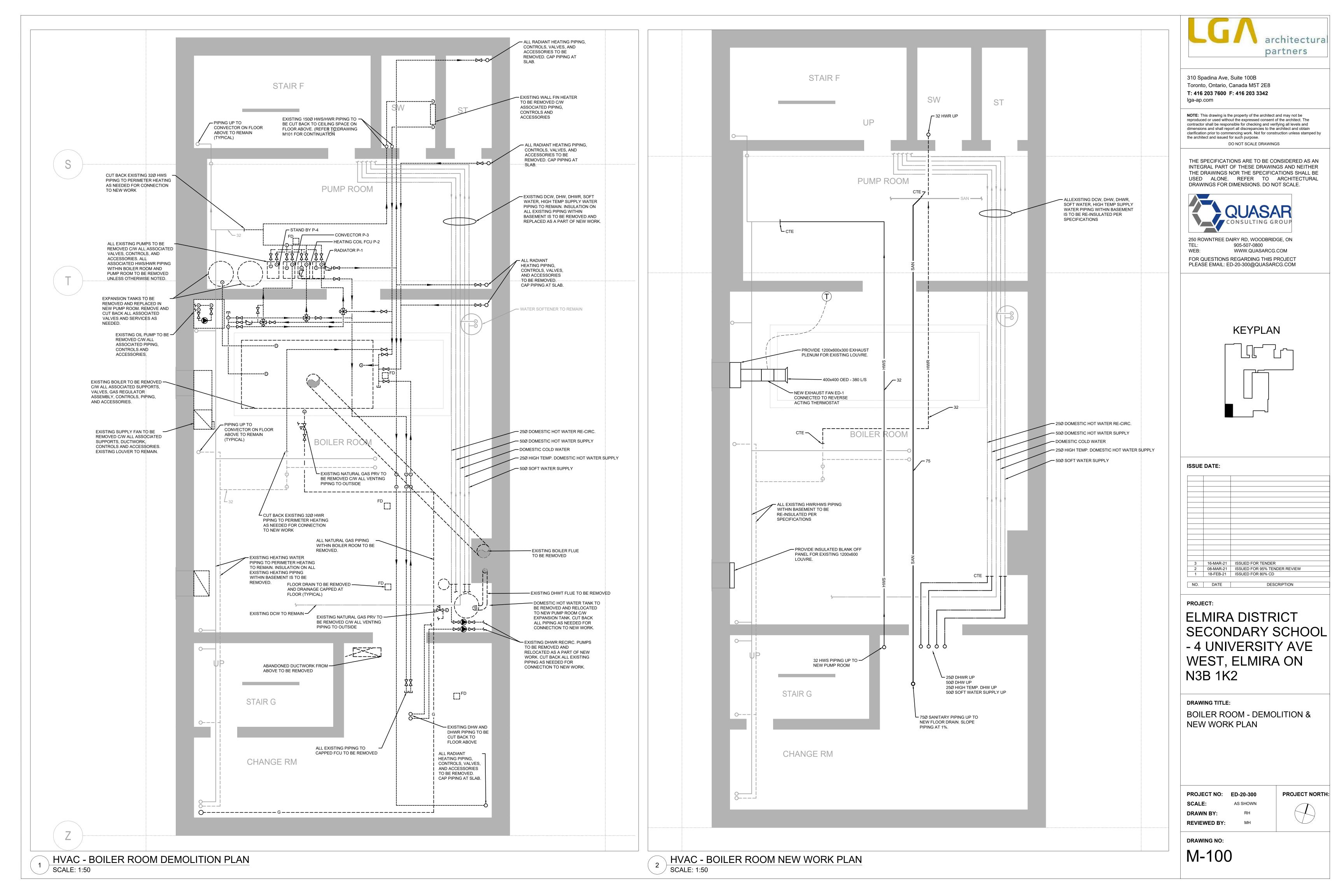
MECHANICAL KEYPLANS

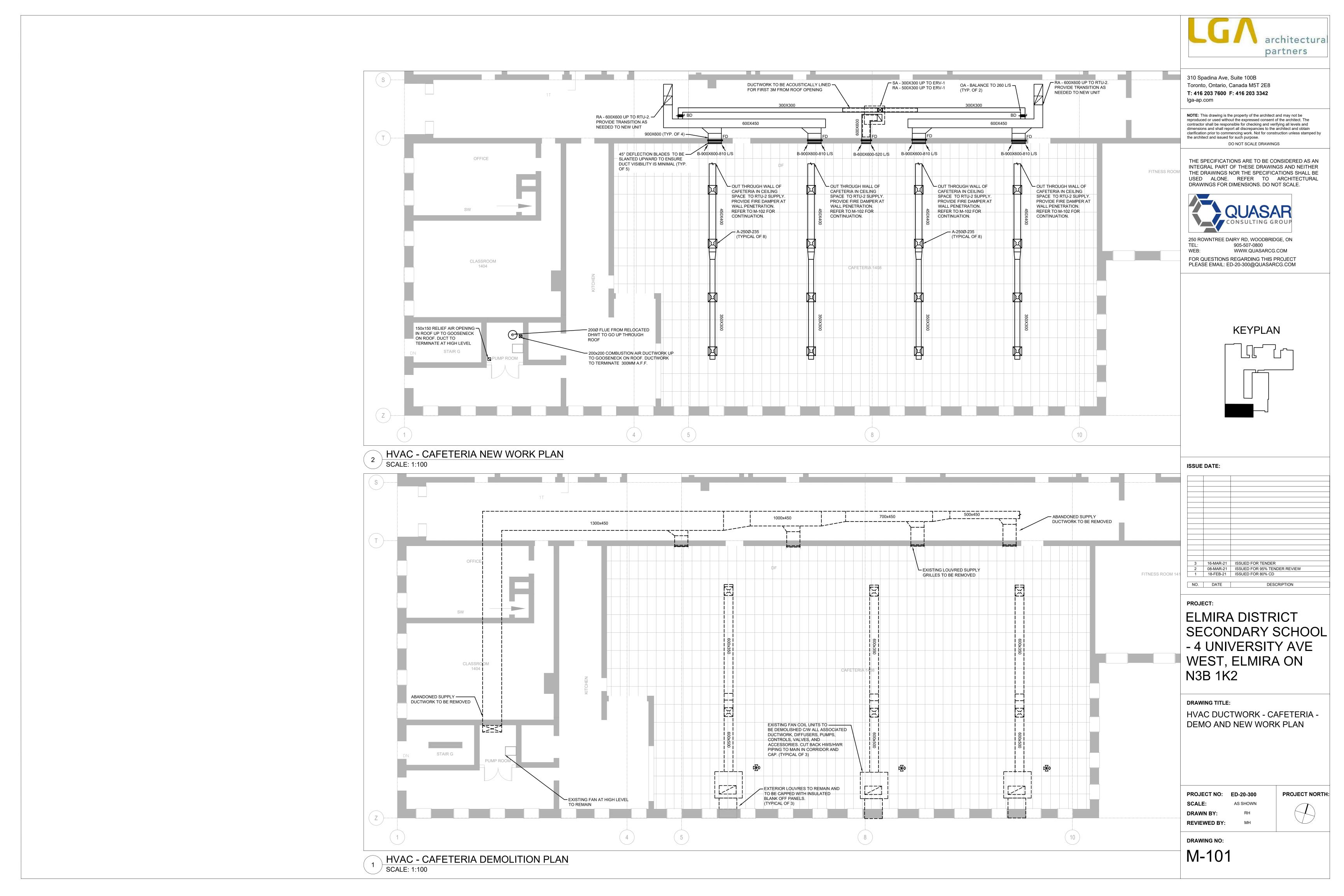
PROJECT NO: ED-20-300
SCALE: AS SHOWN
DRAWN BY: RH
REVIEWED BY: MH

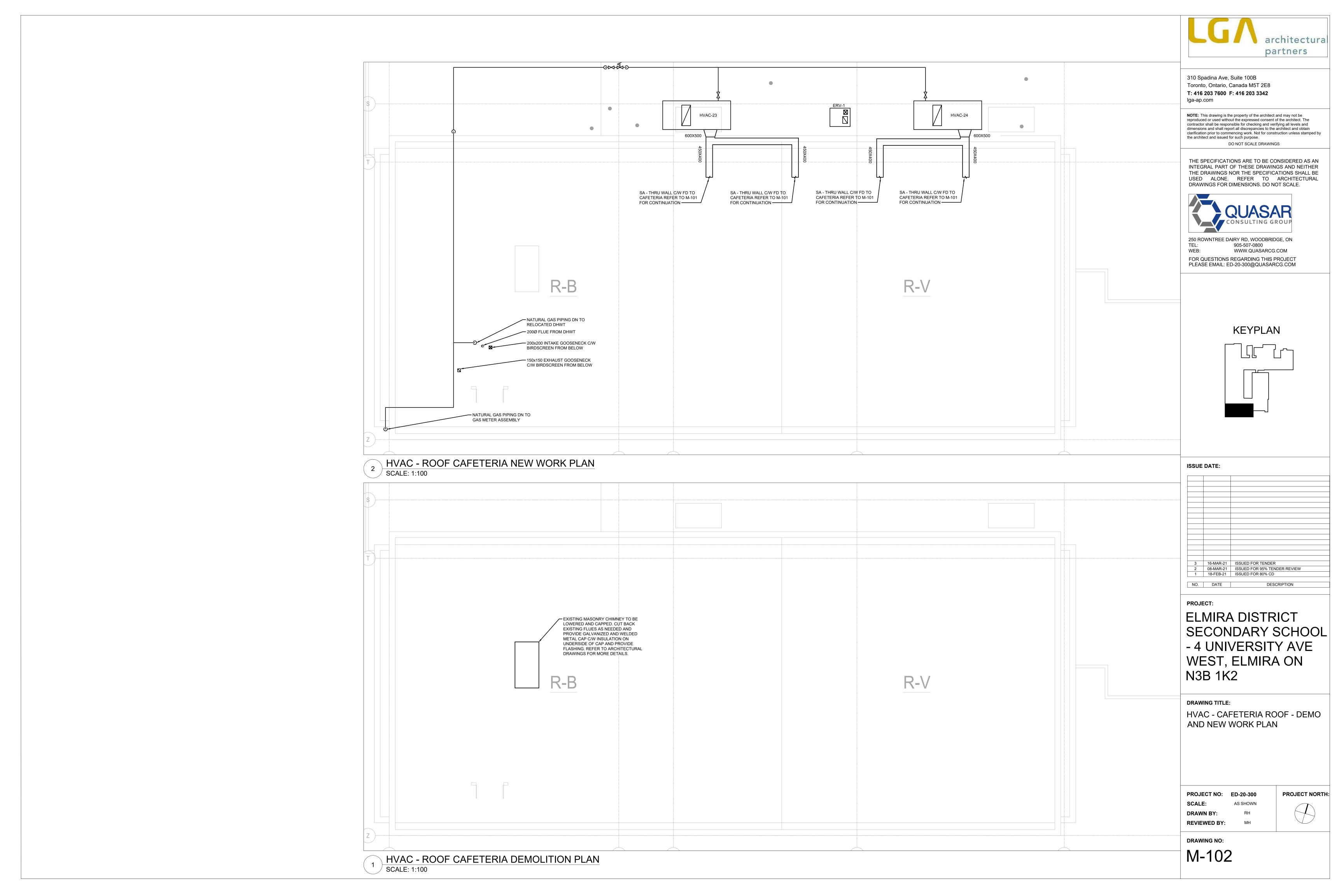
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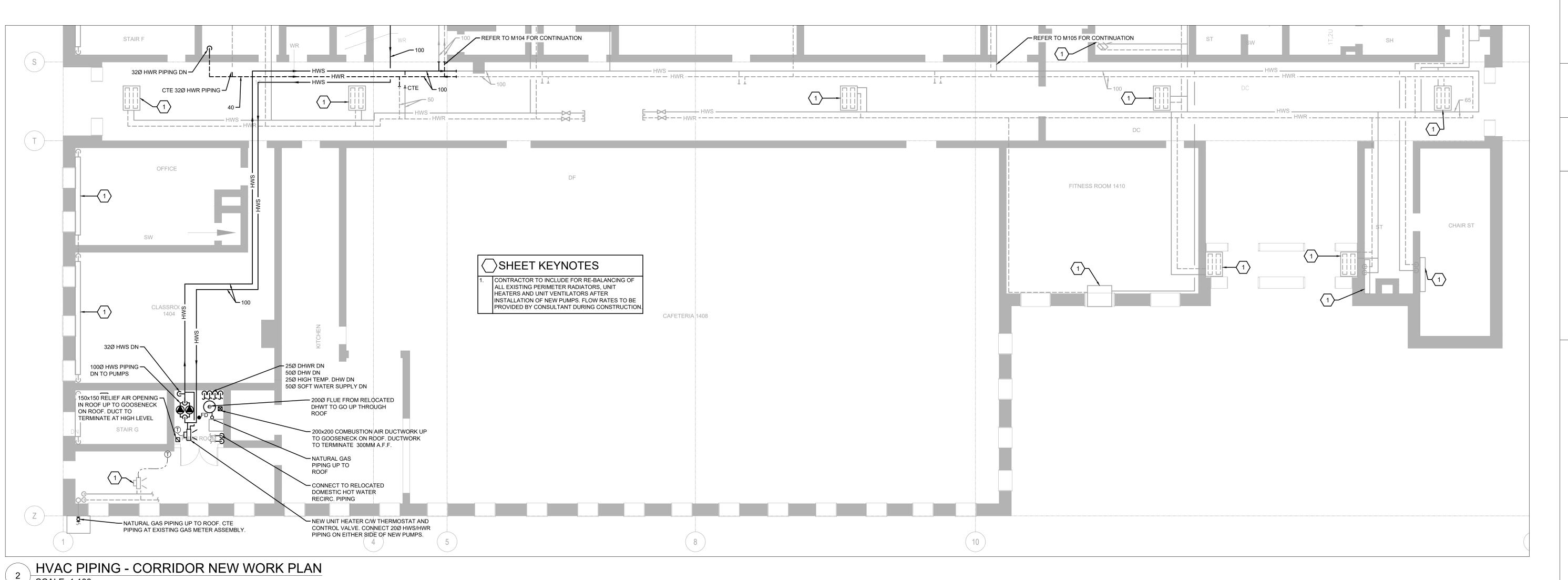
DRAWING NO:

M-002









architectura partners

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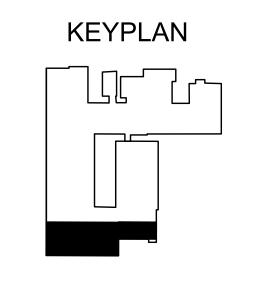
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DO NOT SCALE DRAWINGS



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

DRAWING TITLE:

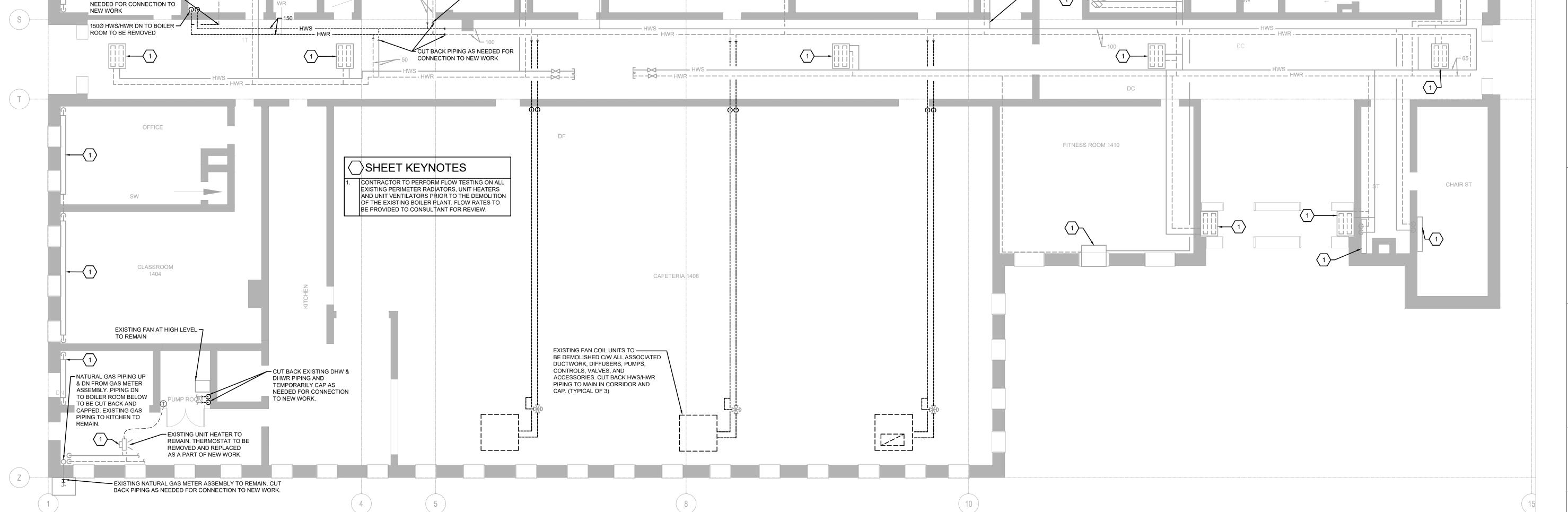
HVAC PIPING - CAFETERIA -DEMO AND NEW WORK PLAN

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

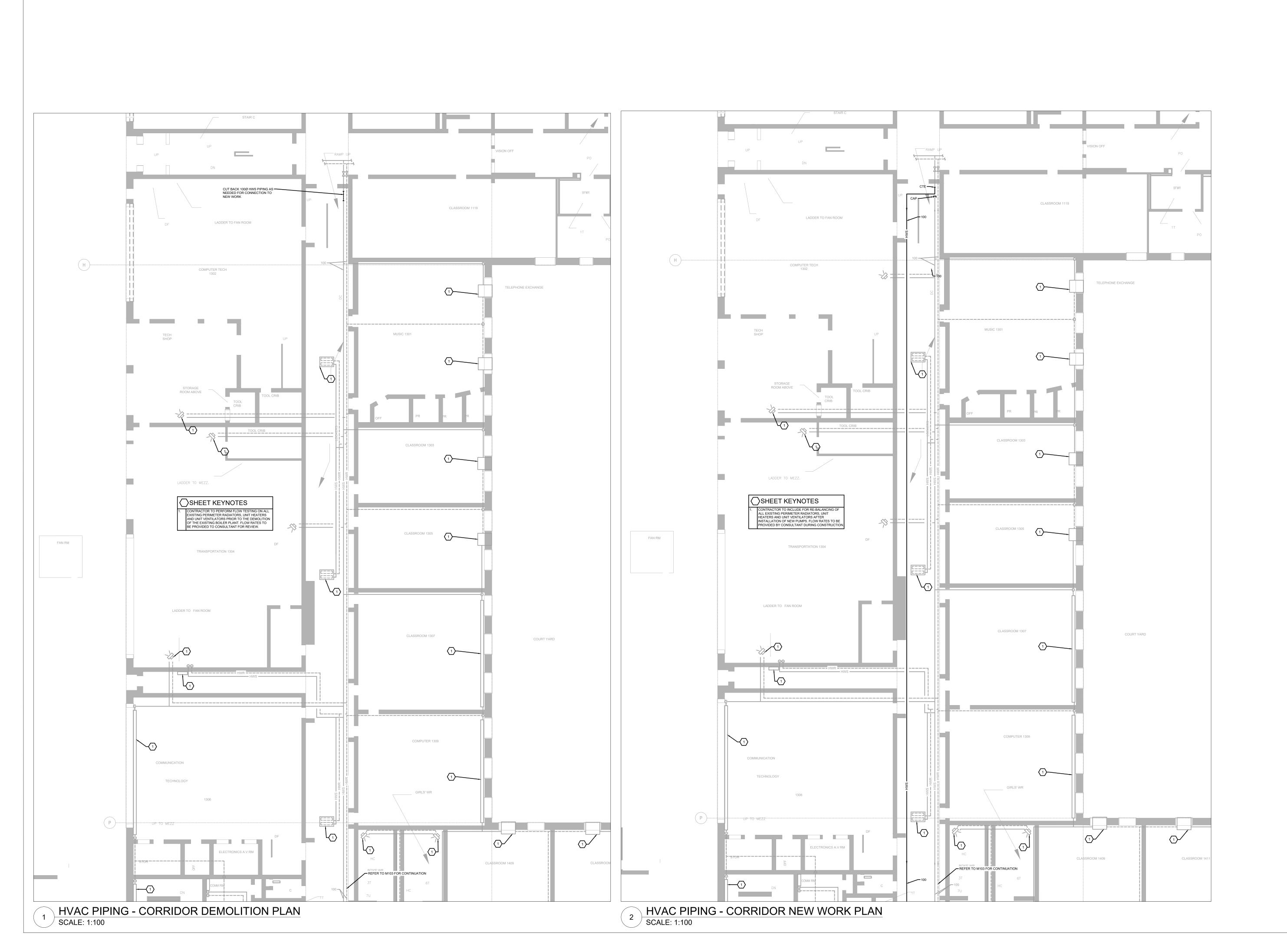
PROJECT NORTH:

DRAWING NO:

2 SCALE: 1:100



- REFER TO M104 FOR CONTINUATION





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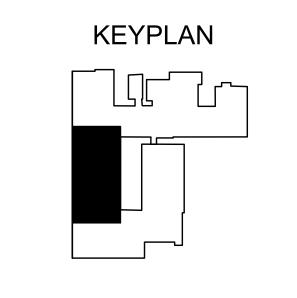
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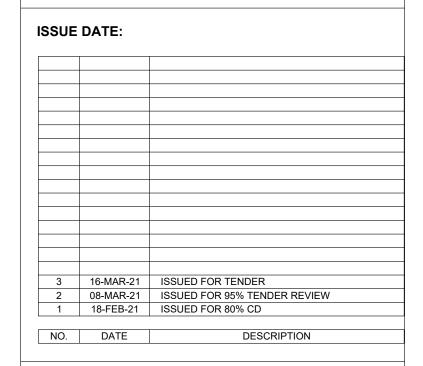
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PROJECT:

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
REVIEWED BY:	МН

PROJECT NORTH:

DRAWING NO:
M-104





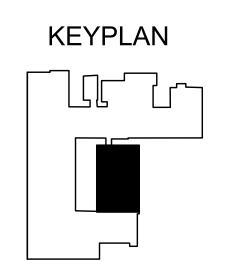
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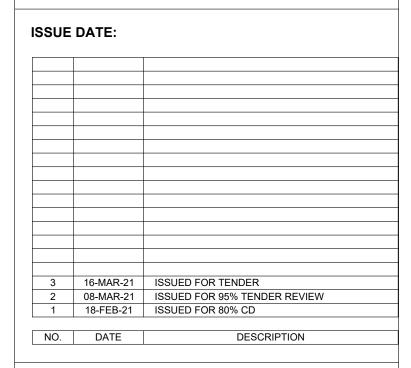
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PROJECT:

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

DRAWING TITLE:

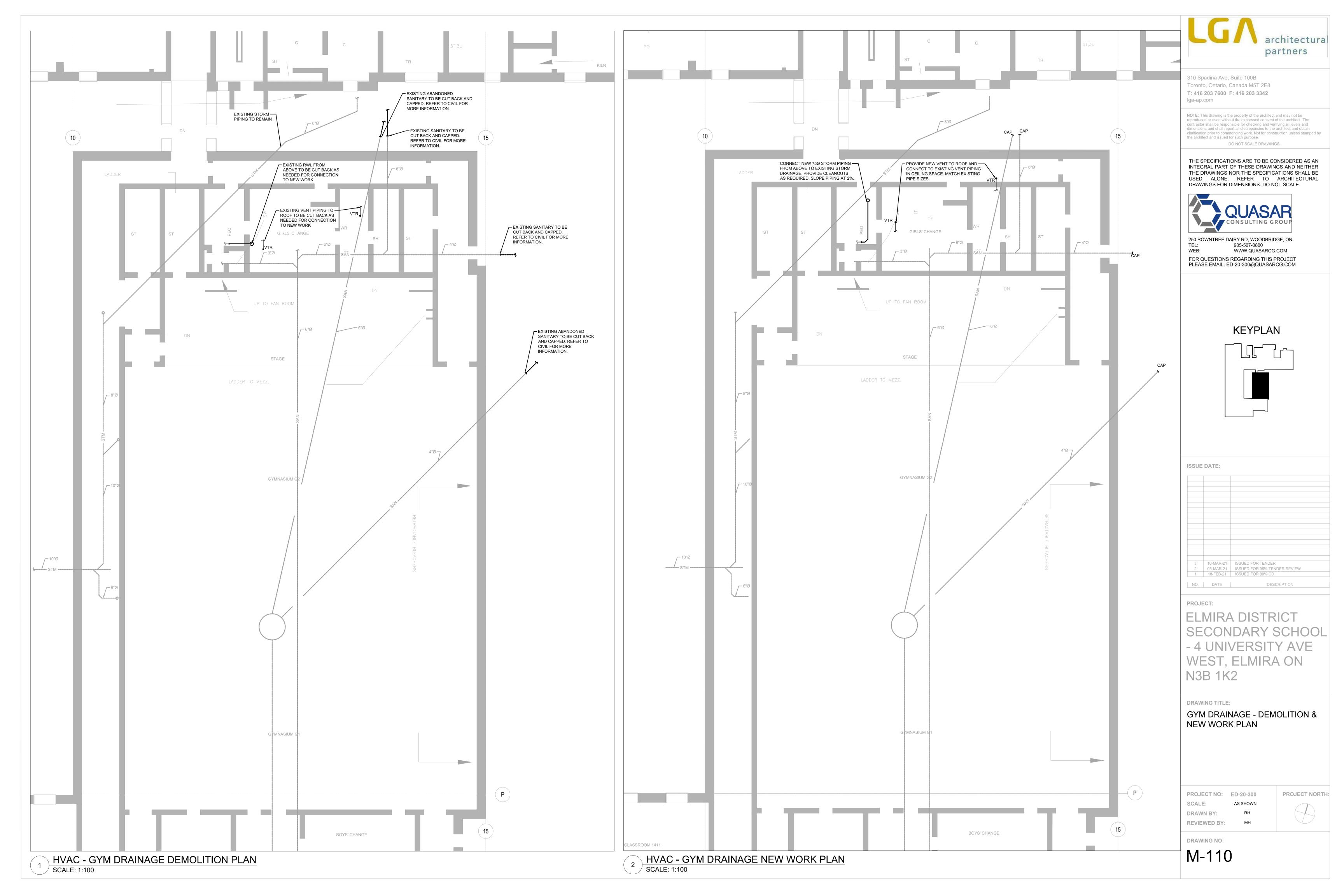
HVAC PIPING - GYM - DEMO AND **NEW WORK PLAN**

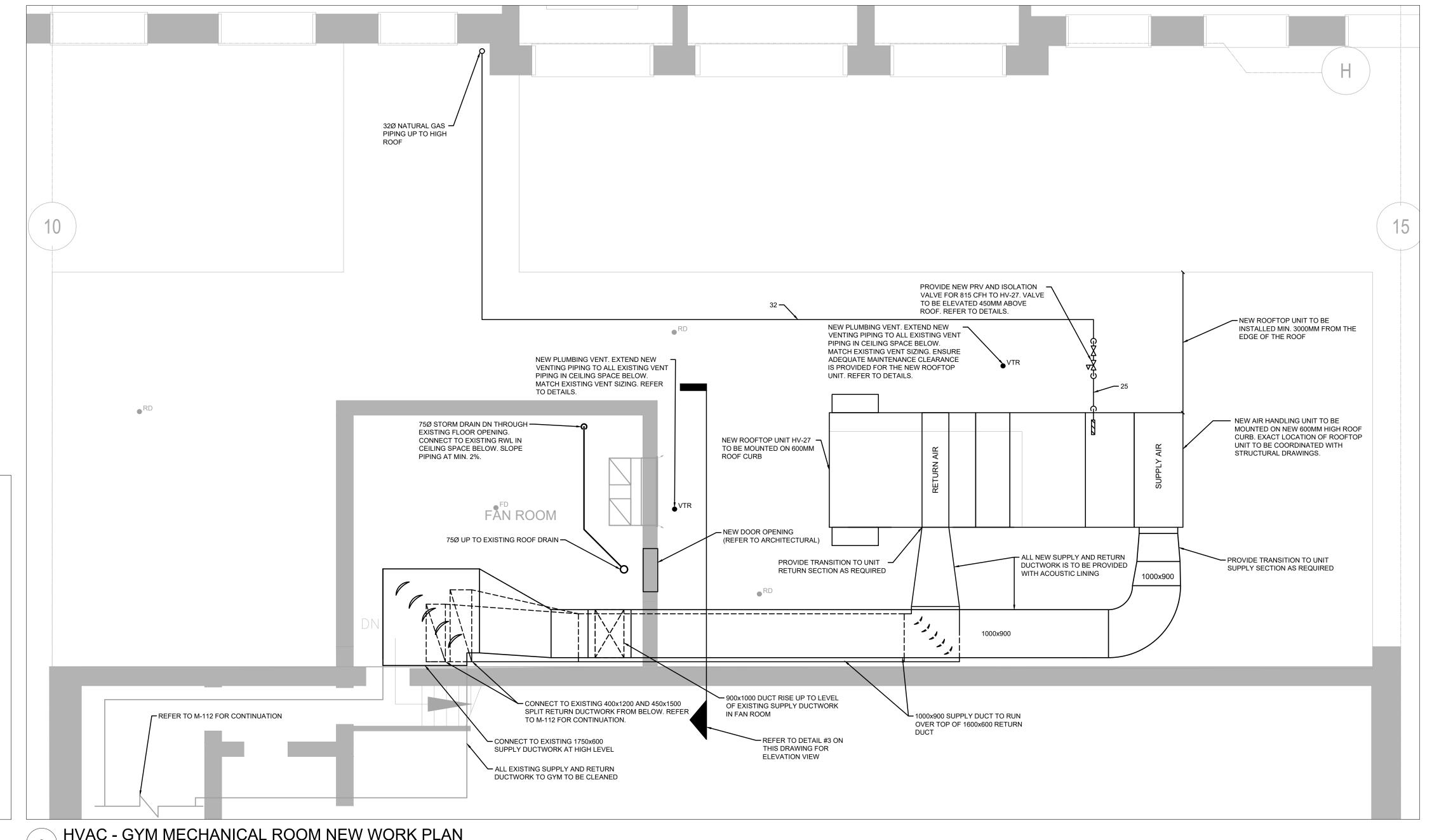
PROJECT NO: ED-20-300 SCALE: AS SHOWN DRAWN BY: **REVIEWED BY:**

PROJECT NORTH:

DRAWING NO:

M-105





ELEVATION OF NORTH FAN ROOM WALL

NEW SUPPLY DUCTWORK WALL PENETRATION. REFER

NEW RETURN DUCTWORK -

WALL PENETRATION TO BE MINIMUM 450MM

FOR MORE DETAILS.

ABOVE ROOF

TO STRUCTURAL DRAWINGS

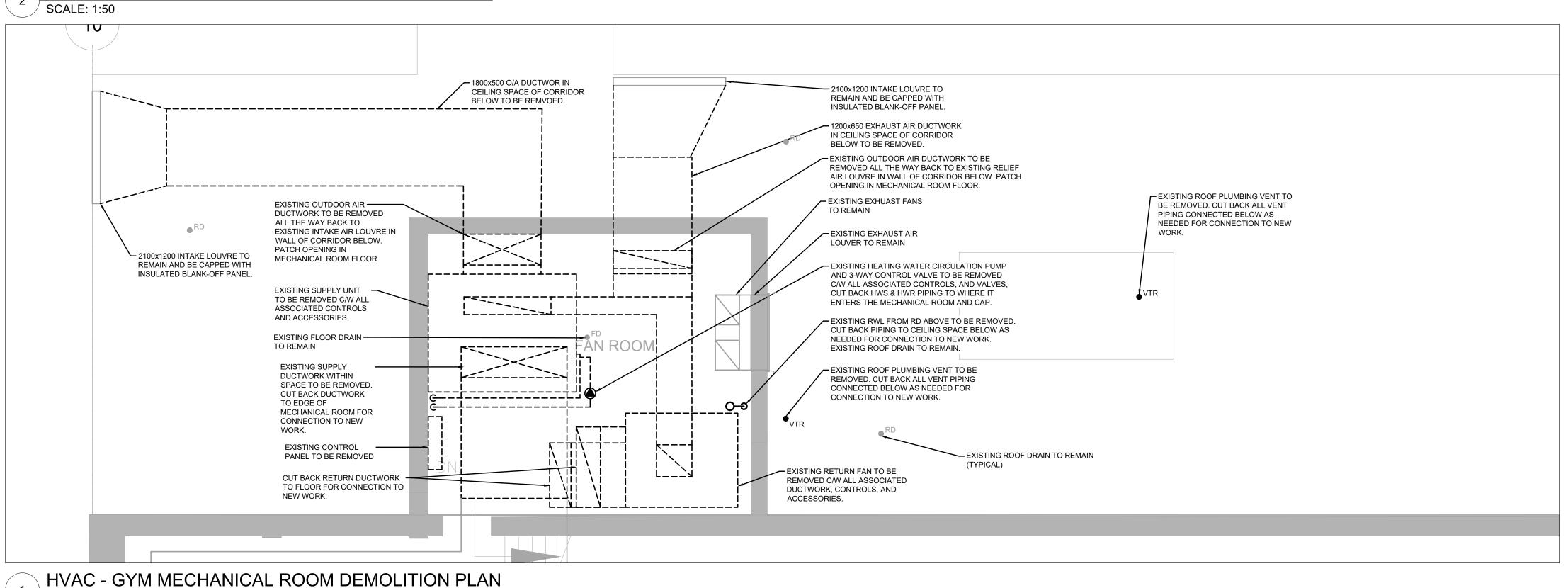
OUTLINE OF NORTH -FAN ROOM WALL

1000x900

L EXHAUST LOUVRE TO REMAIN

NEW DOOR

HVAC - GYM MECHANICAL ROOM NEW WORK PLAN



partners

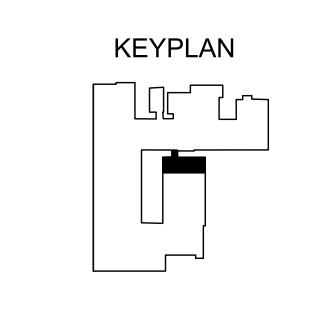
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08-MAR-21 ISSUED FOR 95% TENDER REVIEW 1 18-FEB-21 ISSUED FOR 80% CD

PROJECT:

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

DRAWING TITLE:

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

PROJECT NO: ED-20-300 SCALE: AS SHOWN **DRAWN BY:**

PROJECT NORTH:

DRAWING NO:

REVIEWED BY:

M-111



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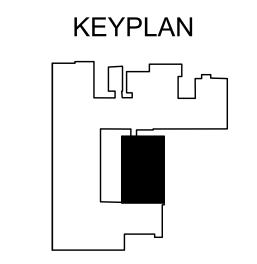
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 3
 16-MAR-21
 ISSUED FOR TENDER

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

PROJECT:

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

DRAWING TITLE:

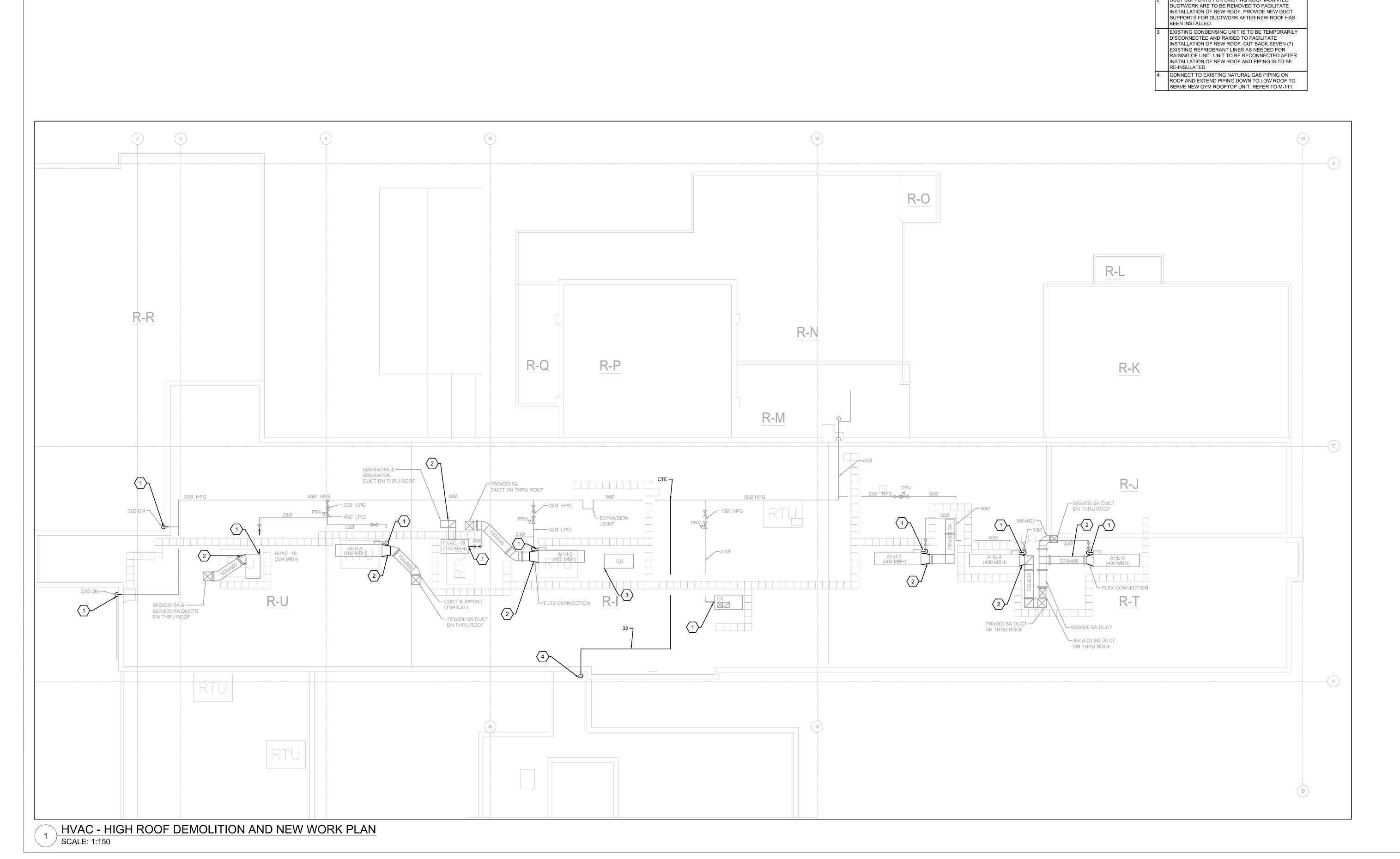
GYM HVAC - NEW WORK PLAN

PROJECT NO: ED-20-300 SCALE: AS SHOWN DRAWN BY:

PROJECT NORTH:

DRAWING NO:

REVIEWED BY:





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PART OF THIS WORK.

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

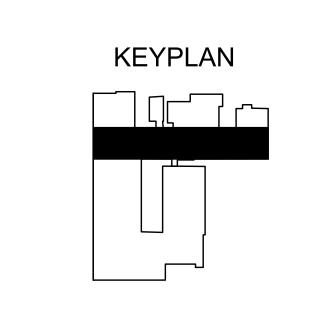
DUCT SUPPORTS FOR EXISTING ROOF MOUNTED

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ISSUE	DATE:	
2	46 MAD 04	ICCUED FOR TENDER
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	DECODIDATION
NO.	DATE	DESCRIPTION

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

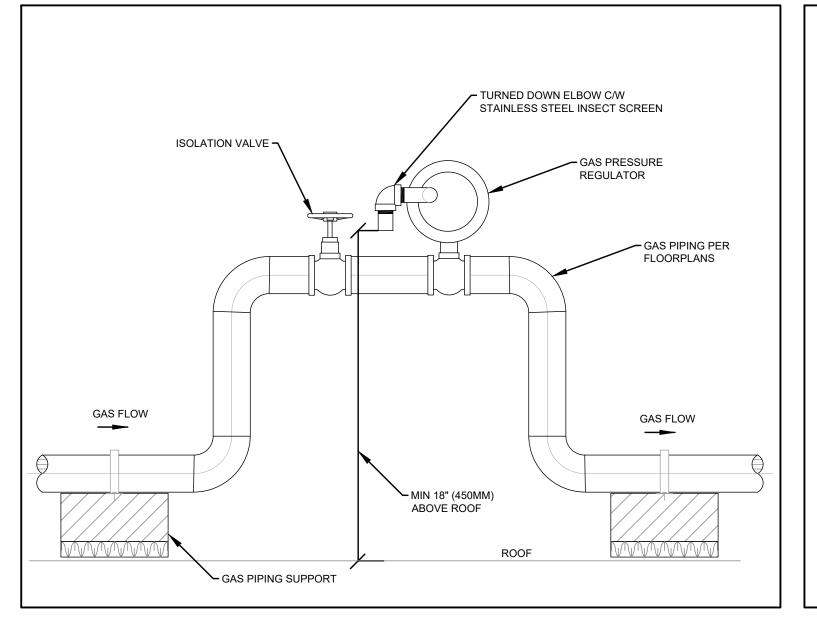
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HIGH ROOF - DEMOLITION & NEW **WORK PLAN**

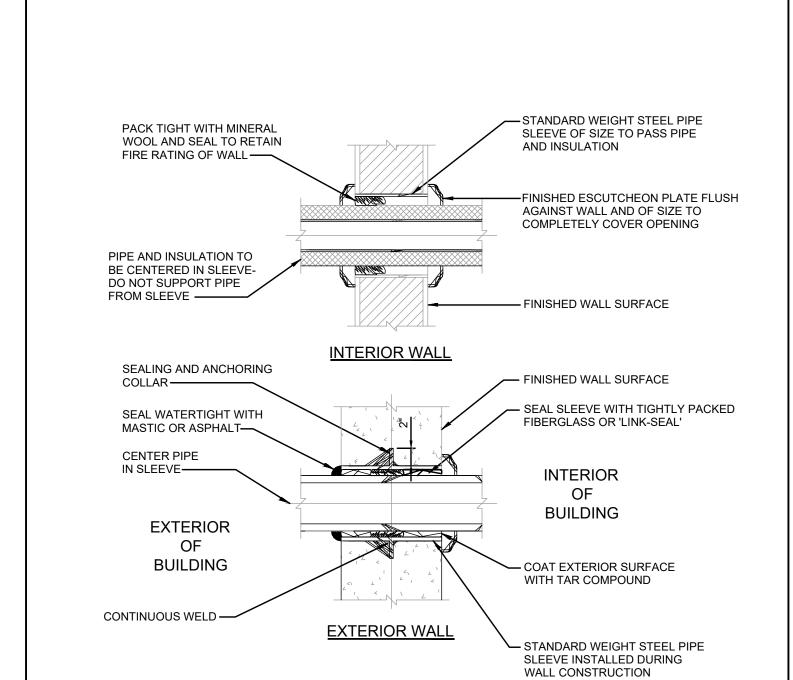
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PROJECT NORTH

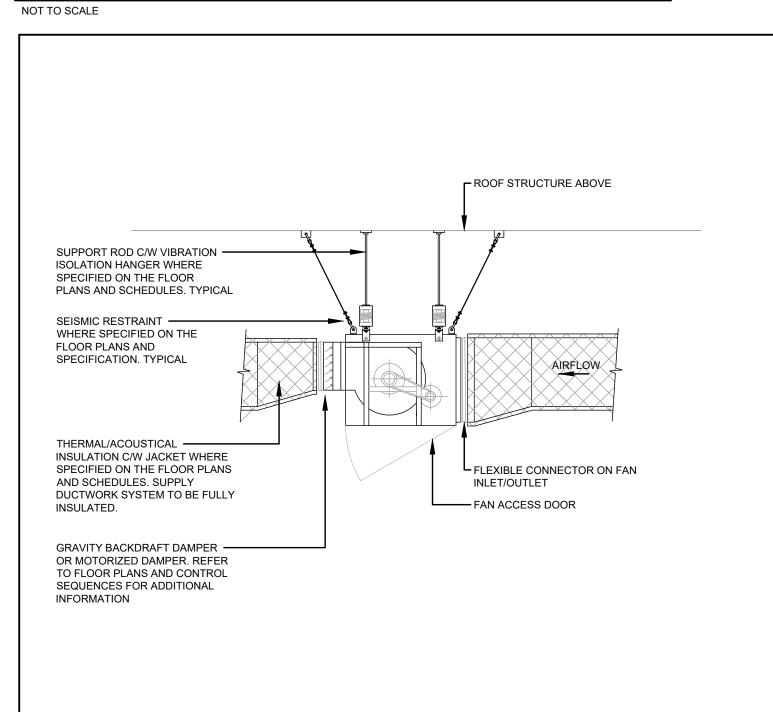
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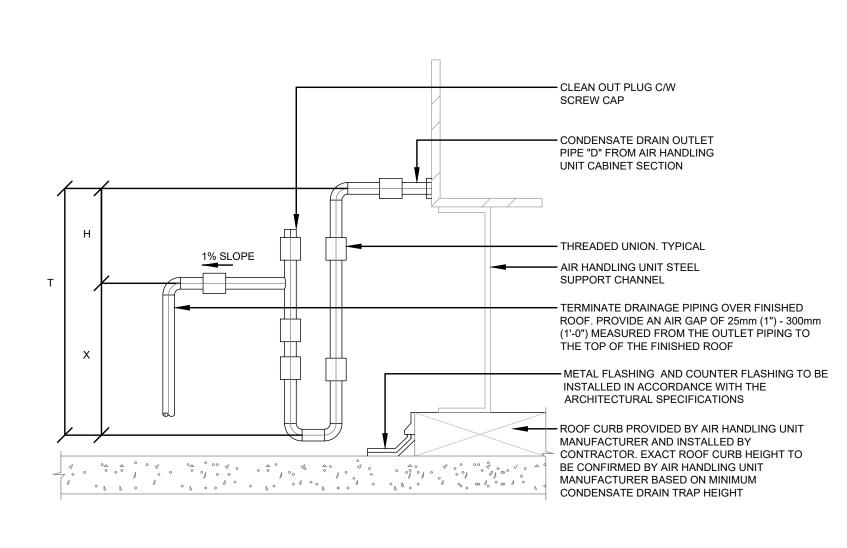
23 30 00.10 ROOF MOUNTED GAS PRESSURE REGULATOR INSTALL NOT TO SCALE



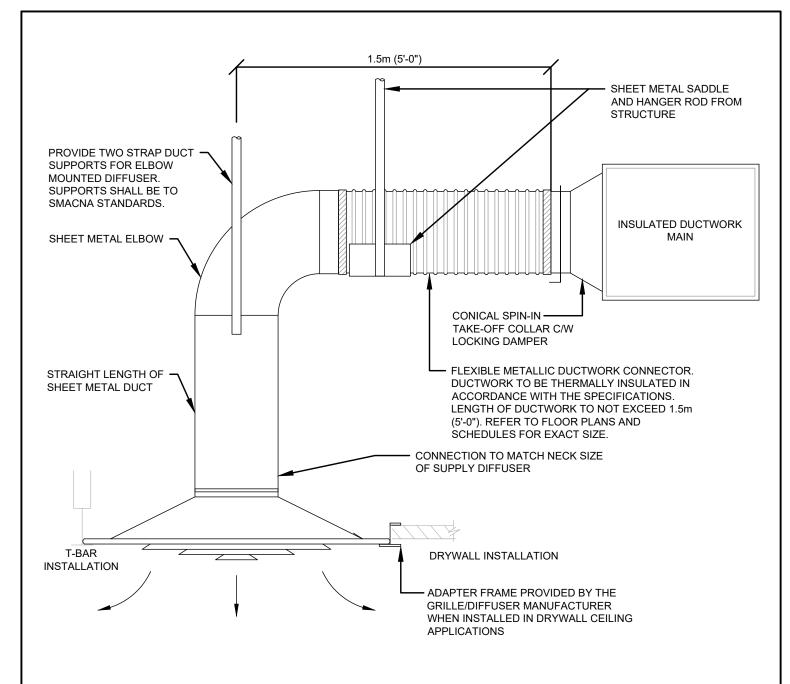
20 05 00.12 DETAIL OF PIPING PENETRATION THROUGH WALL



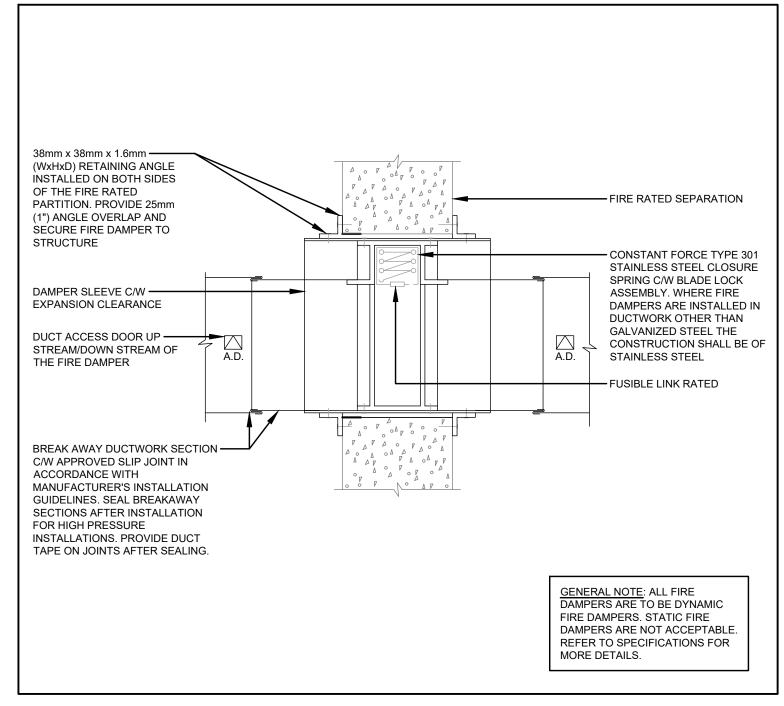
23 34 00.10 CENTRIFUGAL INLINE FAN 23 30 29.01 FUSIBLE LINK DAMPER

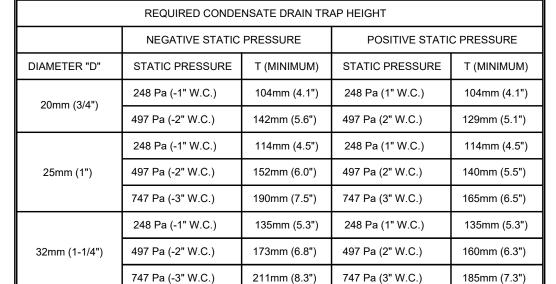


23 74 13.02 CONDENSATE DRAIN TRAP HEIGHT - OUTDOOR AIR HANDLING UNIT NOT TO SCALE



23 30 09.01 FLEXIBLE METALLIC DUCTWORK





T = TOTAL TRAP HEIGHT = X + H*(1.5*D)

NEGATIVE STATIC PRESSURES

• X = 0.5*H (MINIMUM

 H = 25mm (1") + UNIT STATIC PRESSURE IN AIR HANDLING UNIT CABINET SECTION (MINIMUM) • D = PIPE DIAMETER

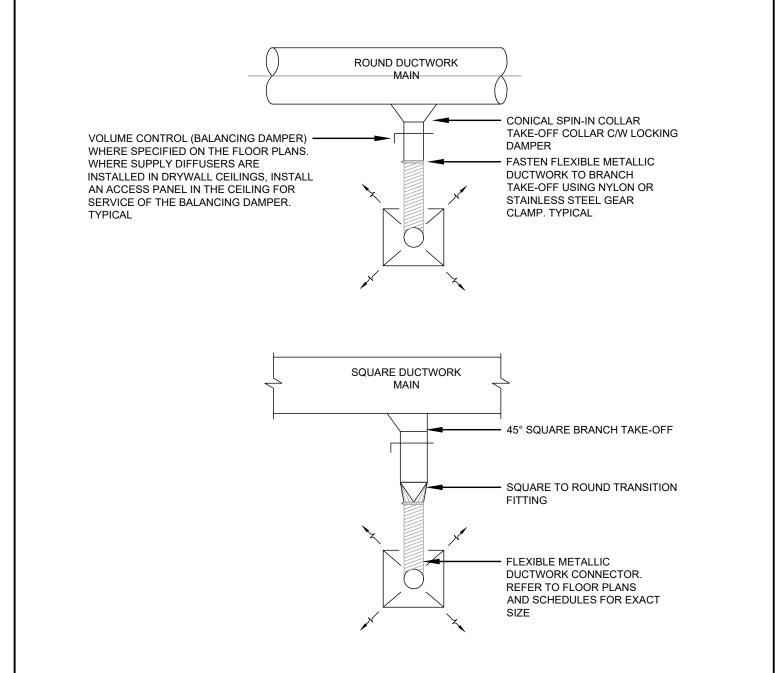
POSITIVE STATIC PRESSURES:

• X = 25mm (1") + UNIT STATIC PRESSURE IN AIR HANDLING UNIT CABINET SECTION (MINIMUM)

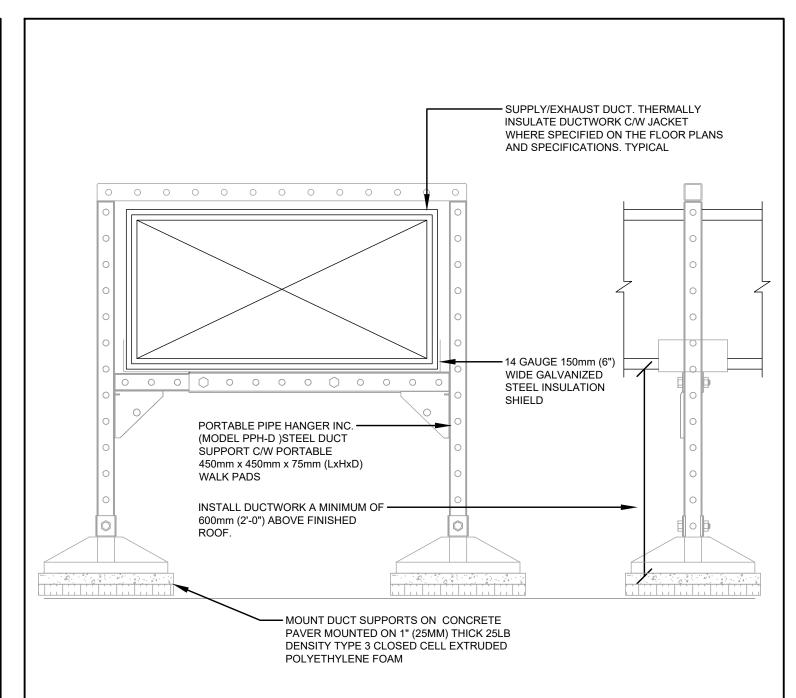
H = 25mm (1") (MINIMUM)

D = PIPE DIAMÈTER

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23 30 09.02 FLEXIBLE METALLIC DUCTWORK CONNECTION



23 30 32.01 ROOF DUCT SUPPORT



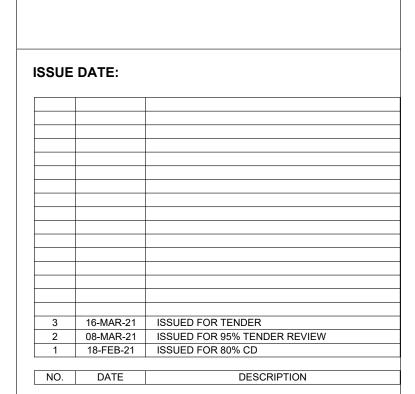
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PROJECT:

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

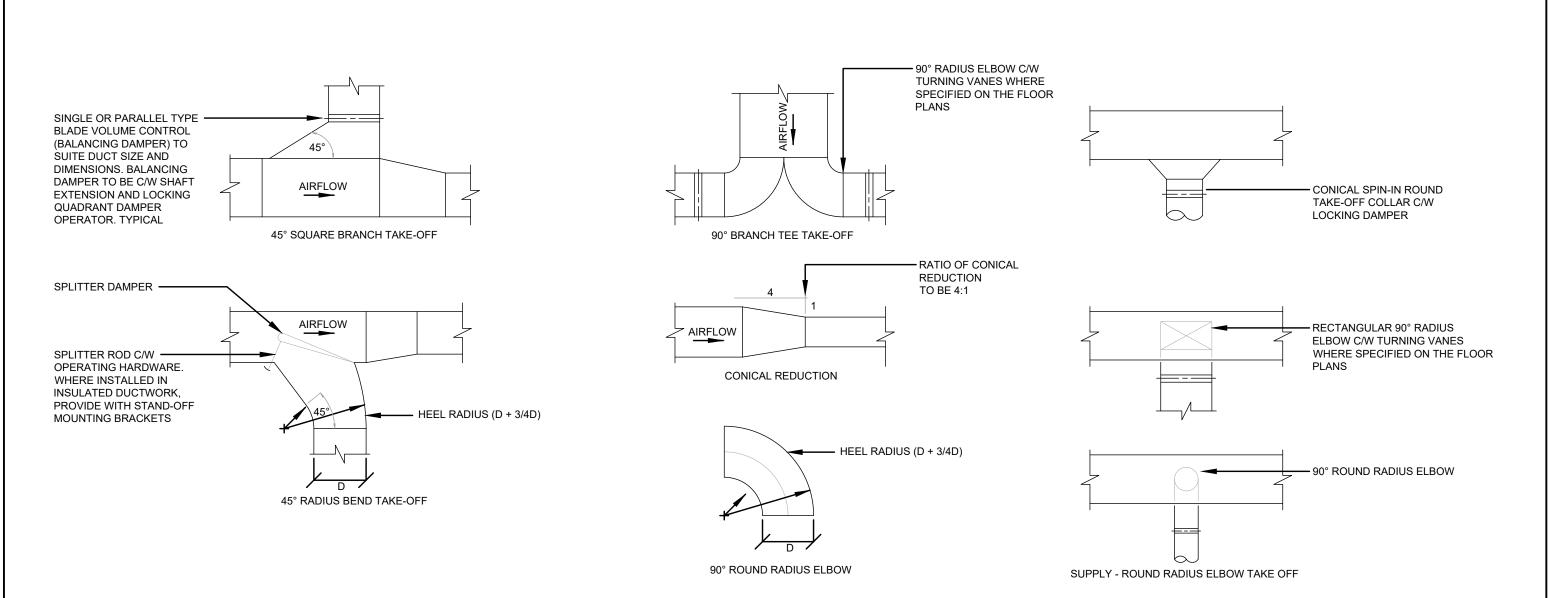
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MECHANICAL DETAILS 1

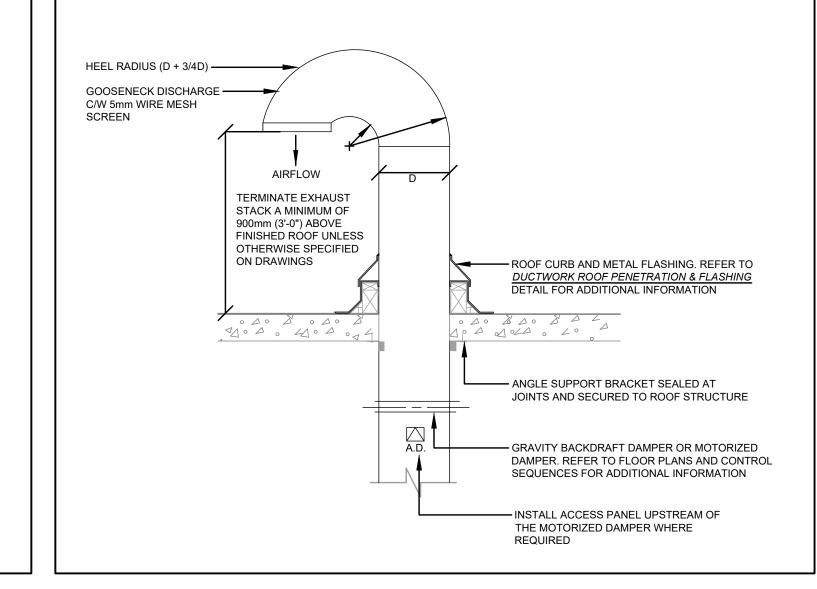
PROJECT NO:	ED-20-300
SCALE:	AS SHOWN
DRAWN BY:	RH
REVIEWED BY:	МН

PROJECT NORTH:

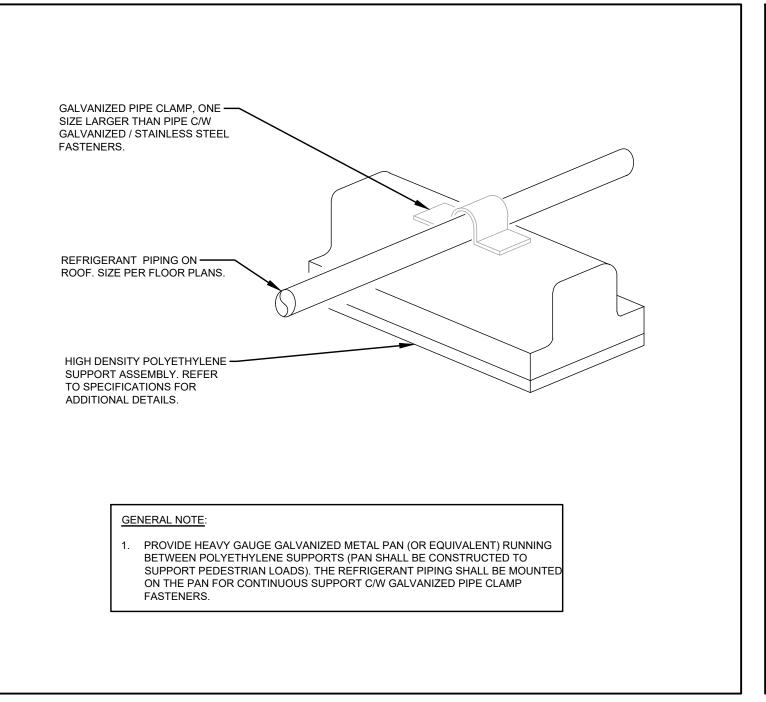
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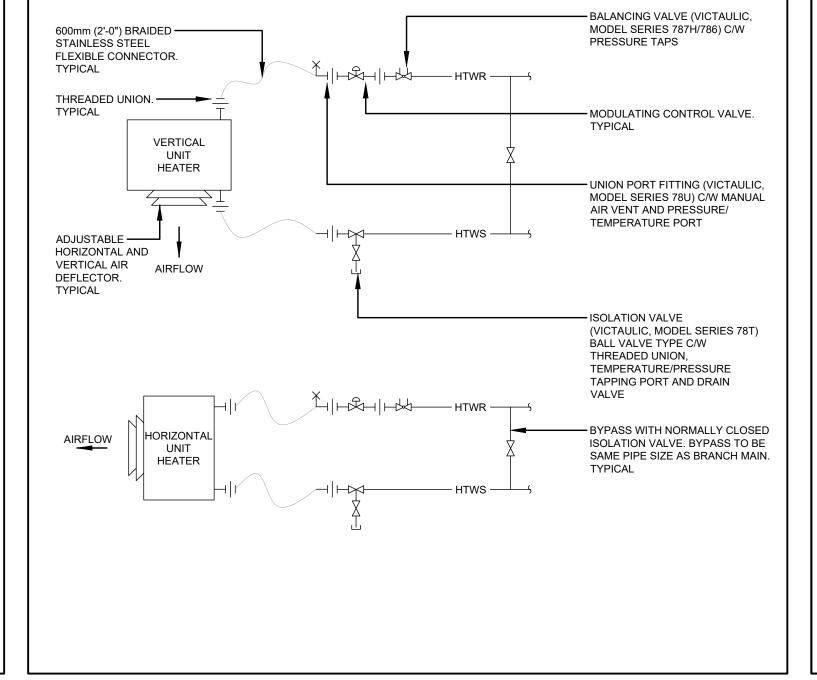
23 30 00.01 DUCTWORK FITTINGS & TAKE-OFF'S



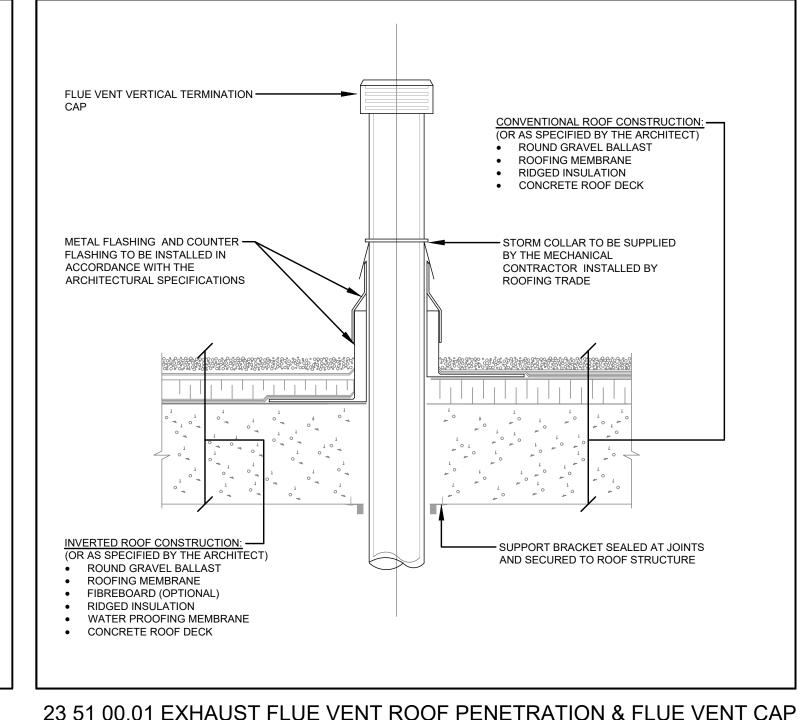
23 30 00.02 DUCT THROUGH ROOF PENETRATION & TERMINATION



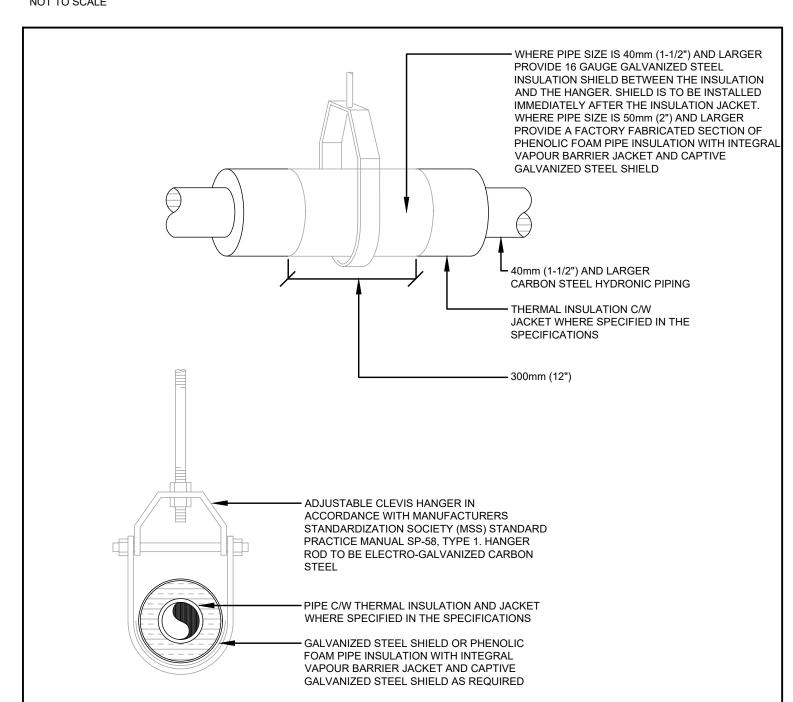




23 82 39.01 HYDRONIC UNIT HEATER



23 51 00.01 EXHAUST FLUE VENT ROOF PENETRATION & FLUE VENT CAP

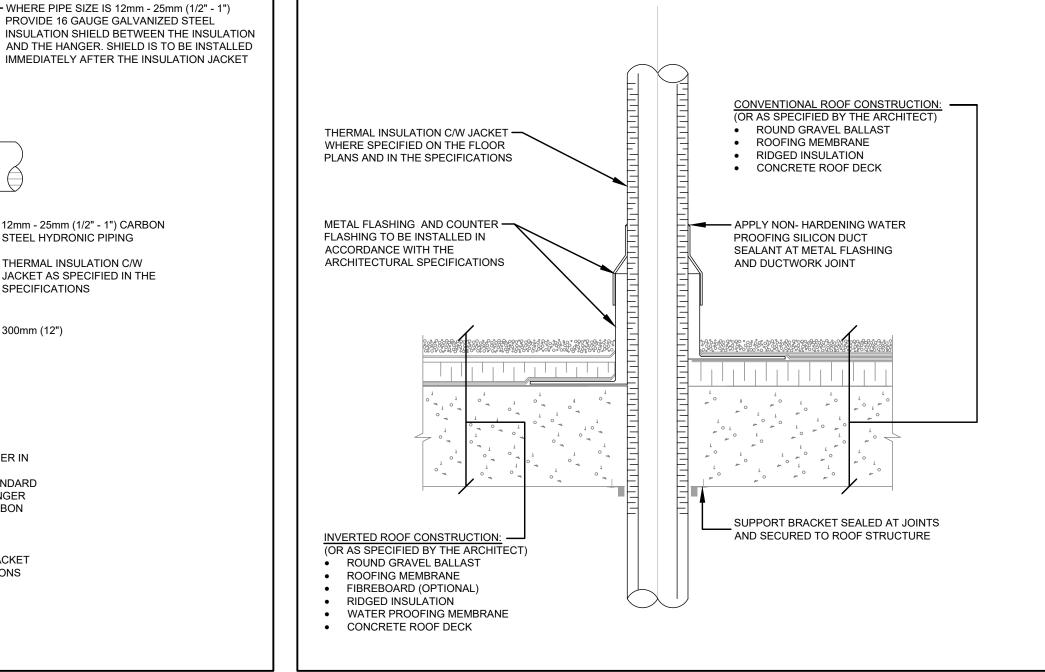


20 05 00.04 PIPING HANGERS AND SUPPORTS

INSULATION SHIELD BETWEEN THE INSULATION AND THE HANGER. SHIELD IS TO BE INSTALLED IMMEDIATELY AFTER THE INSULATION JACKET - 12mm - 25mm (1/2" - 1") CARBON STEEL HYDRONIC PIPING - THERMAL INSULATION C/W JACKET AS SPECIFIED IN THE SPECIFICATIONS — ADJUSTABLE SWIVEL RING BAND HANGER IN ACCORDANCE WITH MANUFACTURERS STANDARDIZATION SOCIETY (MSS) STANDARD PRACTICE MANUAL SP-58, TYPE 10. HANGER ROD TO BE ELECTRO-GALVANIZED CARBON PIPE C/W THERMAL INSULATION AND JACKET WHERE SPECIFIED IN THE SPECIFICATIONS GALVANIZED STEEL SHIELD

PROVIDE 16 GAUGE GALVANIZED STEEL

20 05 00.03 PIPING HANGERS AND SUPPORTS



20 05 00.02 HVAC PIPE ROOF PENETRATION & FLASHING



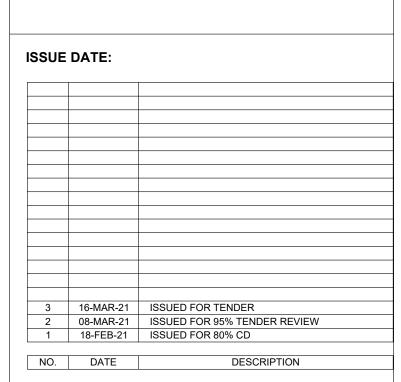
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ELMIRA DISTRICT

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

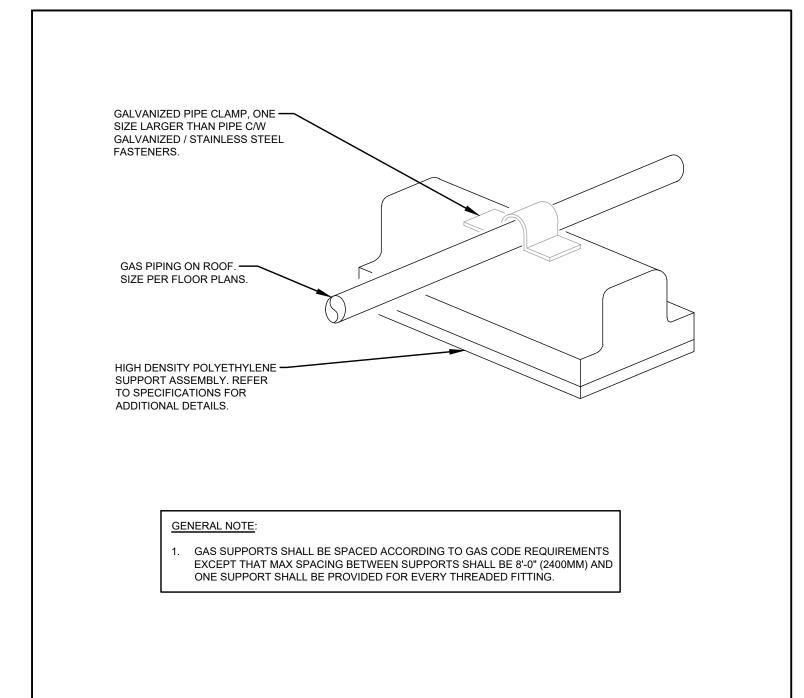
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PROJECT:

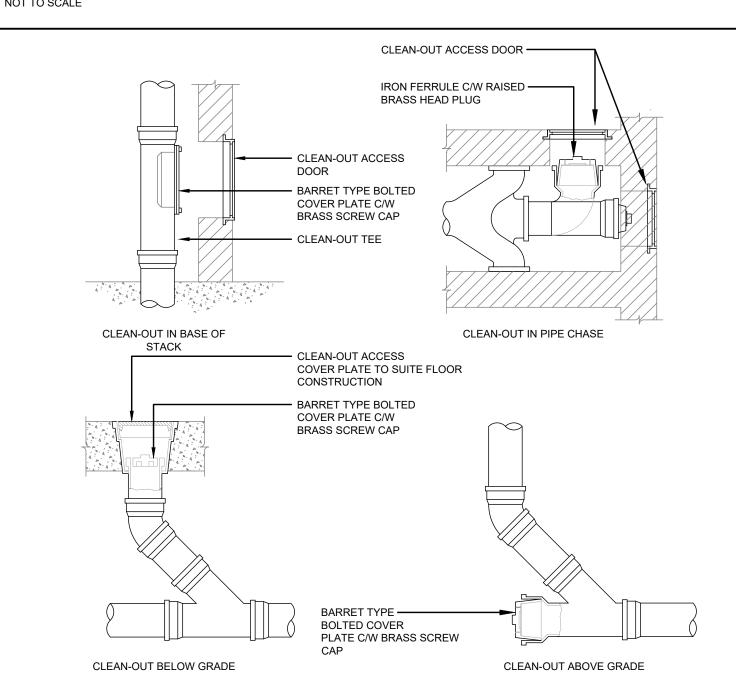
MECHANICAL DETAILS 2

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

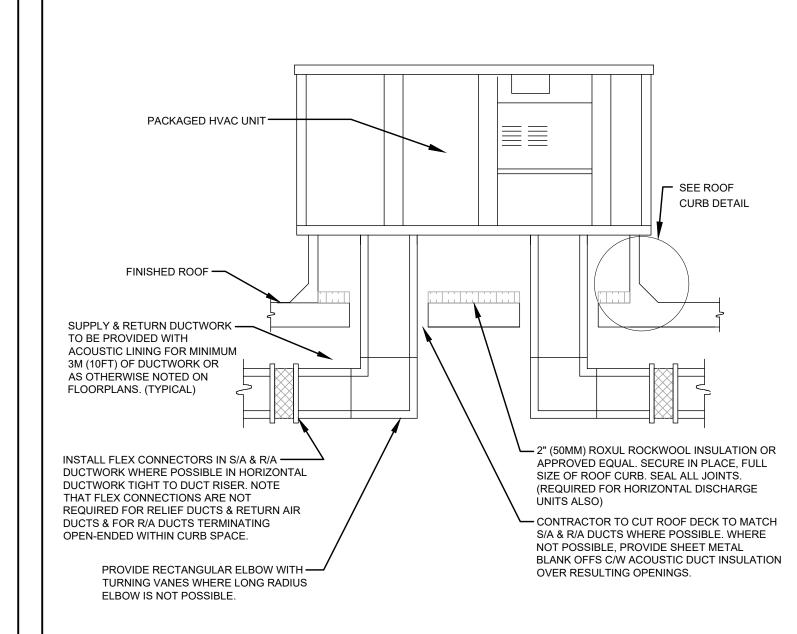
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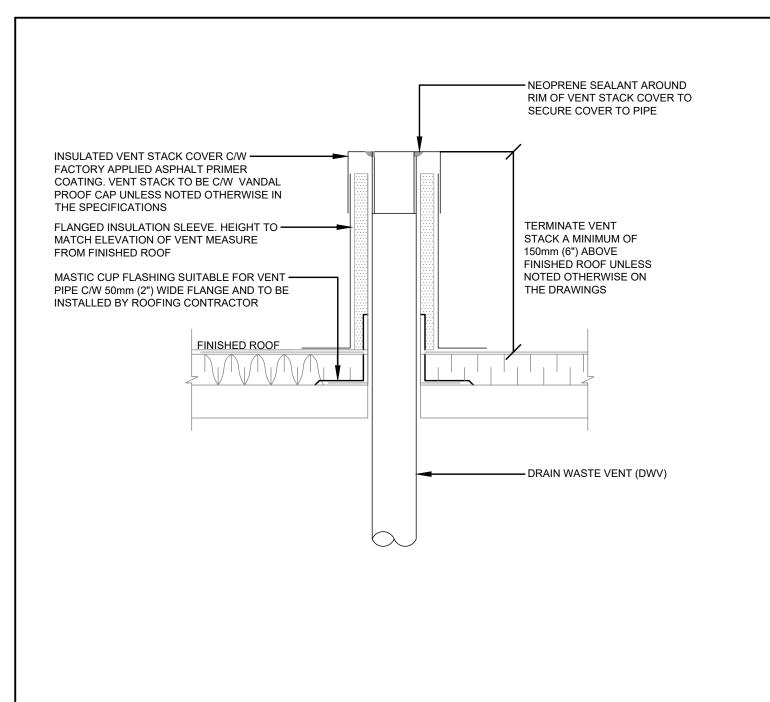




22 13 00.02 SANITARY & STORM WATER CLEANOUTS



23 74 13.01 DETAIL OF ROOFTOP UNIT INSTALLATION
NOT TO SCALE



22 13 00.01 DWV ROOF PENETRATION & VENT CAP COVER



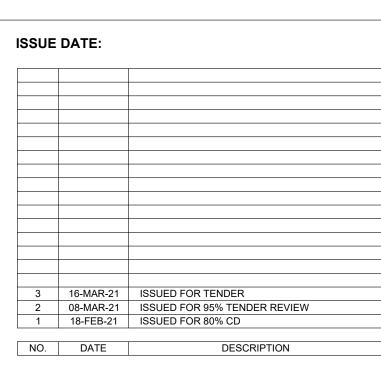
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250 ROWNTREE DAIRY RD, WOODBRIDGE, ON 905-507-0800 WWW.QUASARCG.COM FOR QUESTIONS REGARDING THIS PROJECT PLEASE EMAIL: ED-20-300@QUASARCG.COM



PROJECT:

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

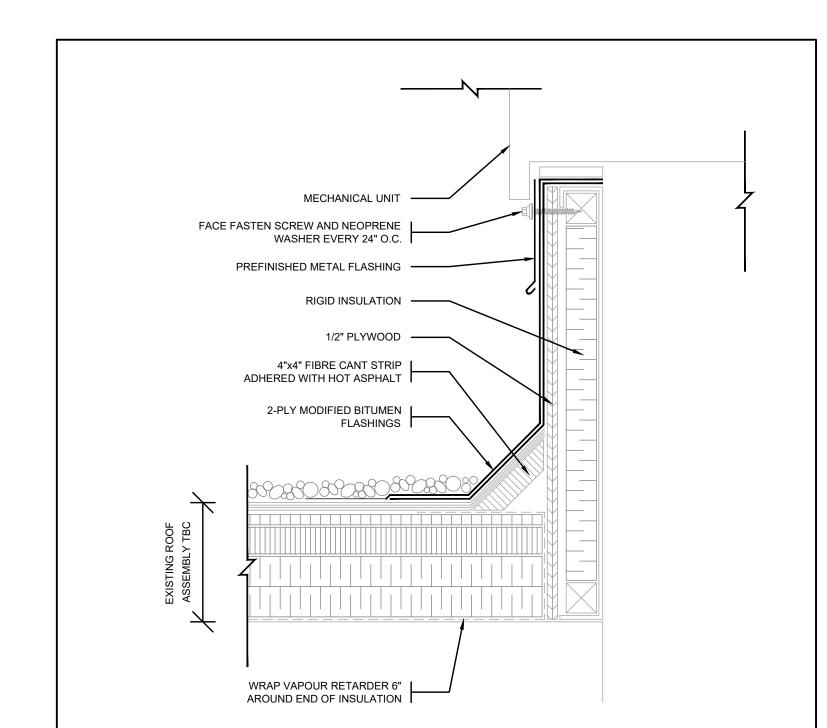
DRAWING TITLE:

MECHANICAL DETAILS 3

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

PROJECT NORTH:

DRAWING NO: M-302



20 05 00.15 DETAIL OF PREFABRICATED ROOF CURB

								ENI	ERGY I	REC	OVE	RY	VENT	'ILA'	TOR S	SCHED	ULE	i I																	
					SUPPLY I	-AN	EXHAUS	STFAN			;	SUMMER							WINTER				ELECTRICAL												
SVSTEM	SYSTEM AREA SERVED LOCATION MANUFACTUR	LOCATION	MANUFACTURER	MODEL NO.	- NO.				ENTE	RING AIR T	EMP (°C)		LEAVING AIF (°C)		OTAL HEAT	ENTERING AIR TEMP (°C)					G AIR TEMP (°C)	TOTAL			WEIGHT	REMARKS									
STSTEIN		MANUFACTURER	INODEL NO.	WIODEL NO.	MIODEL NO.	WIODEL NO.	WIODEL NO.	WIODEL NO.	WIODEL NO.	MODEL NO.	MODEL NO.	WODEL NO.	MODEL NO.	WIODEL NO.	AIRFLOW (L/s)	ESP (PA)	AIRFLOW (L/s)	ESP (PA)	OUTDOOR	AIR	RETUR	RN AIR	SUPPLY		RECOVERY	OUTDOOR	AIR	RETU	RN AIR	SUP	PLY 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. 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 & FLEXIBLE CONNECTION.

6. UNIT DISCONNECT TO BE FIELD SUPPLIED.

7. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

	SCHEDULE OF ROOFTOP AIR HANDLING UNITS																																
							COC	LING COIL		HEA	AT EXCHA	NGER			;	SUPPLY F	AN							RETUR	RN FAN				FILTERS		ELECTRIC	CAL	
SYSTEM	AREA SERVICED	MODEL NO. (DAIKIN)	UNIT WEIGHT (KG)	AIRFLOW (L/s)	% FRESH AIR	NOMINAL (TONS)	CAPAC GROSS (KW)	SENSIBLE (KW)	COIL TYPE	CAPA INPUT (KW)		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		MCA	MOCP	ELECTRICAL V/ф/Hz	REMARKS
HV-27	GYM	RDS802C	1,323	6,040	25		UNIT IS H	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	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

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					
А	CEILING SUPPLY DIFFUSER	E.H. PRICE	ASCD	600x600, REFER TO FLOORPLAN FOR NECK CONNECTION	BY ARCH	ADJUSTABLE DIFFUSER					
В	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									
				F	ERFORMA	NCE DAT	A	ELECTRICAL	
TAG	G AREA SERVED	MODEL NO.	MANUFACTURER	CAPACITY	E.S.P.	FAN	MOTOR	V/ф/Hz	REMARKS
				(L/s)	(PA)	RPM	(kW)	ν/φ/1/2	
EF-1	BOILER ROOM EXHAUST	SQI-D-90SQ15D	COOK	375	75	1550	0.23	120/1/60	1,2,3

1. BACKDRAFT DAMPER

2. REVERSE ACTING THERMOSTAT 3. PROVDIE WITH ISOLATION HANGERS

		SCHE	DULE O	F PUMP	S						
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	1,2
C11	DOMESTIC RECIRC PUMP	PUMP ROOM	GRUNDFOS	UPS 32-80 F	0.41	62	1800	0.28	0.158	115/1/60	1

1. INLINE PUMP TO BE MOUNTED ON PIPING.

2. C/W SUCTION GUIDE AND LONG RADIUS ELBOW.



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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
<u> </u>		
NO.	DATE	DESCRIPTION

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

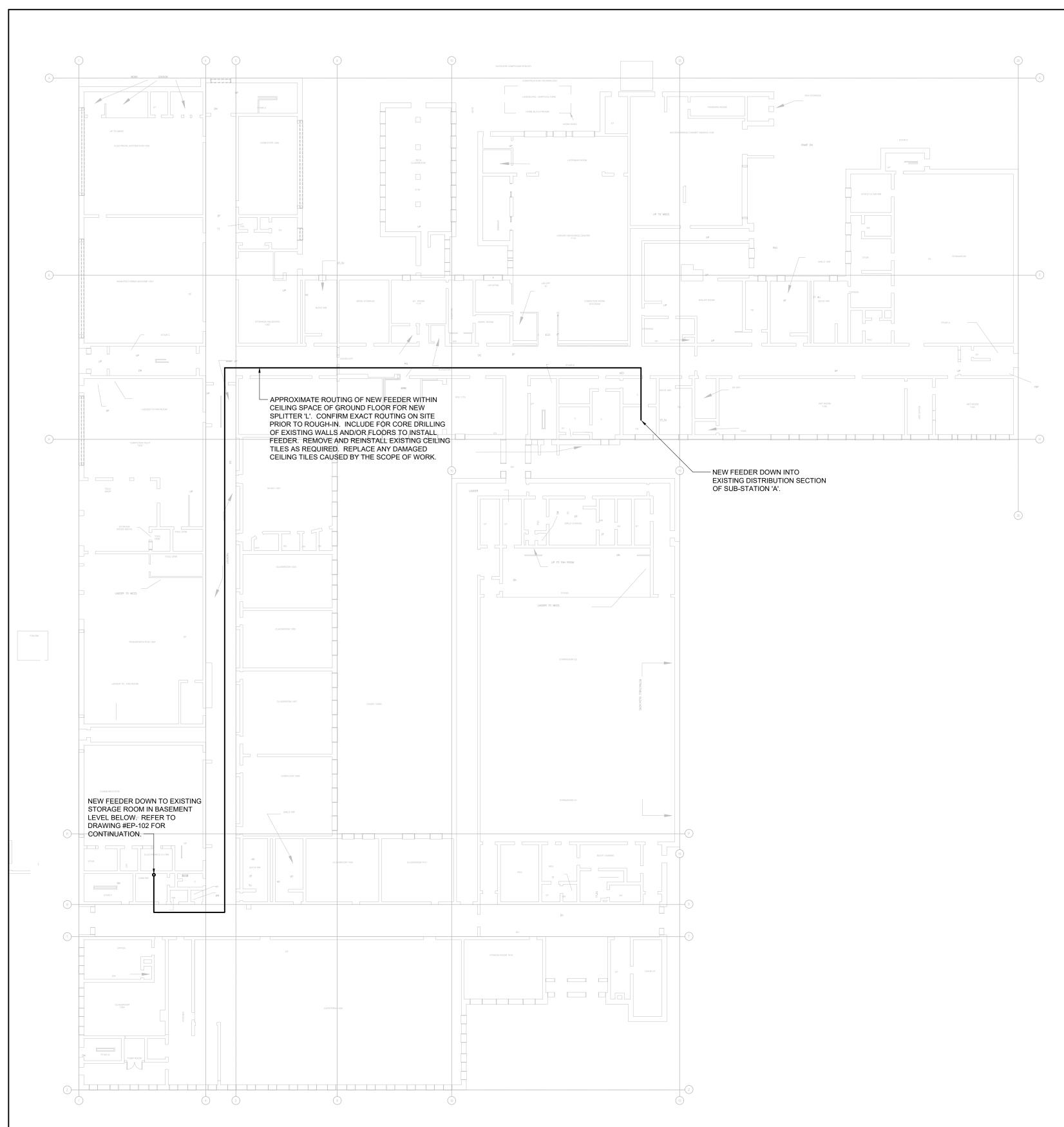
DRAWING TITLE:

MECHANICAL SCHEDULES

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

PROJECT NORTH:

DRAWING NO: M-400



KEY PLAN - ELECTRICAL SCALE: 1:300

	ELECTRICAL LEGEND
	ELECTRICAL LEGEND
SYMBOL	DESCRIPTION LINETYPES
	NEW WORK
	WORK TO BE DEMOLISHED, OR REMOVED EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN
	ABBREVIATIONS
E	EXISTING TO REMAIN
D R	EXISTING TO BE DEMOLISHED/REMOVED EXISTING TO BE RELOCATED/IN RELOCATED POSITION
ER	EXISTING TO BE REMAIN AND REPLACED WITH NEW
RR	REMOVE AND REINSTALL IN SAME POSITION
RL	REMOVE AND RELOCATE
C W	CEILING MOUNTED CONNECTION WALL MOUNTED CONNECTION
F	FLOOR MOUNTED CONNECTION
€. AFF	CENTRE LINE ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
O/C U/C	OVER COUNTER UNDER CABINET
U/F	UNDER RAISED FLOOR
CCT	CONNECT TO EXISTING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
GFCI GFI	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
TL TR	TWIST LOCK TAMPER RESISTANT
WG	WIRE GUARD
WP R/I	WEATHER PROOF ROUGH-IN ONLY
NIC	NOT IN CONTRACT
SIM. TYP.	SIMILAR TO TYPICAL
ODC	ABBREVIATIONS - CODES AND STANDARDS
OBC OESC	ONTARIO BUILDING CODE ONTARIO ELECTRICAL SAFETY CODE
	ANNOTATIONS ROOM NUMBER
CL	CLOSET
WR	WASHROOM FIRE PROTECTION
	FIRE EXTINGUISHER
SPK FHC	SPRINKLER HEAD STANDPIPE FIRE HOSE CABINET
	HVAC
BBH	THERMOSTAT OR TEMPERATURE SENSOR ELECTRIC BASEBOARD HEATER (BBH)
FFH	FORCED FLOW HEATER
HRU	ENERGY RECOVERY VENTILATOR HEAT RECOVERY UNIT
MUA	MAKE-UP AIR UNIT
	CONDUIT AND BOXES CONDUIT WITH END BUSHING
<u> </u>	CONDUIT UP
—⇒ [JB]	JUNCTION BOX
PB	PULL BOX
РВ	PULL BOX CONNECTIONS TO EQUIPMENT
DW FR	
DW FR MW	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE
DW FR MW HD	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A
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DW FR MW HD PSC PTP W W C REFER TO SPECIFIE B DIM K M PPR T	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS) PLUMBING TRAP PRIMER 1-PHASE DIRECT CONNECTION OUTLET AS NOTED. 3-PHASE DIRECT CONNECTION OUTLET AS NOTED. ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS. SINGLE PHASE MOTOR, HP (KW) AS NOTED. THREE PHASE MOTOR, HP (KW) AS NOTED. CLOCK. LIGHTING CONTROLS CATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING 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 'DUAL PASSIVE INFRARED', LINE VOLTAGE TO SUIT CONTROLLED CIRCUIT. POWER PACK TIMER SWITCH. CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED', UT DENOTES 'UAL TRASONIC' (OR MICROPHONIC), DT DENOTES 'DUAL TECHNOLOGY'. WALL MOUNTED OCCUPANCY SENSOR.
DW FR MW HD PSC PTP W W C REFER TO SPECIFIE PP T DIM FR PP T DT OT	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS) PLUMBING TRAP PRIMER 1-PHASE DIRECT CONNECTION OUTLET AS NOTED. 3-PHASE DIRECT CONNECTION OUTLET AS NOTED. ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS. SINGLE PHASE MOTOR, HP (KW) AS NOTED. THREE PHASE MOTOR, HP (KW) AS NOTED. CLOCK. LIGHTING CONTROLS CATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING 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', UT DENOTES 'ULTRASONIC' (OR MICROPHONIC), DT DENOTES 'DUAL TECHNOLOGY'.
DW FR MW HD PSC PTP W W C DIM K M PPIR PP T DIT HDT	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS) PLUMBING TRAP PRIMER 1-PHASE DIRECT CONNECTION OUTLET AS NOTED. 3-PHASE DIRECT CONNECTION OUTLET AS NOTED. ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS. SINGLE PHASE MOTOR, HP (KW) AS NOTED. THREE PHASE MOTOR, HP (KW) AS NOTED. CLOCK. LIGHTING CONTROLS CATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING 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 'DUAL PASSIVE INFRARED', LINE VOLTAGE TO SUIT CONTROLLED CIRCUIT. POWER PACK TIMER SWITCH. CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED', UT DENOTES 'ULTRASONIC' (OR MICROPHONIC), DT DENOTES 'DUAL TECHNOLOGY'. WALL MOUNTED OCCUPANCY SENSOR. DISTRIBUTION EQUIPMENT SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD RECESSED RECEPTACLE PANELBOARD
DW FR MW HD PSC PTP W W C REFER TO SPECIFIE PP T DIM FR PP T DT OT	CONNECTIONS TO EQUIPMENT DISHWASHER FRIDGE MICROWAVE HAND DRYER. ALLOW UP TO 208V-1PH-20A PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS) PLUMBING TRAP PRIMER 1-PHASE DIRECT CONNECTION OUTLET AS NOTED. 3-PHASE DIRECT CONNECTION OUTLET AS NOTED. ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS. SINGLE PHASE MOTOR, HP (KW) AS NOTED. THREE PHASE MOTOR, HP (KW) AS NOTED. CLOCK. LIGHTING CONTROLS CATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE. ADJACENT TO SWITCH, DENOTES DIMMING 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 'DUAL TECHNOLOGY'. WALL MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED', DT DENOTES 'ULTRASONIC' (OR MICROPHONIC), DT DENOTES 'DUAL TECHNOLOGY'. WALL MOUNTED OCCUPANCY SENSOR. DISTRIBUTION EQUIPMENT SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS

PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT

	ELECTRICAL LEGEND		ELECTRICAL LEGEND
OL	DESCRIPTION	SYMBOL	DESCRIPTION
	LINETYPES	\oplus	120V U-GROUND DUPLEX RECEPTACLE.
	NEW WORK		120V U-GROUND DUPLEX RECEPTACLE - CONTROLLED (ASHRAE 90.1-2010, 8.4.2).
	WORK TO BE DEMOLISHED, OR REMOVED	+	120V U-GROUND QUAD RECEPTACLE.
	EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN		SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR
	ABBREVIATIONS EXISTING TO REMAIN	<u> </u>	ROUGH-IN. 120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE
	EXISTING TO REMAIN EXISTING TO BE DEMOLISHED/REMOVED		COUNTER TOP OR AS INSTRUCTED ON SITE. LIGHTING FIXTURES
	EXISTING TO BE RELOCATED/IN RELOCATED POSITION		CORDANCE WITH IES DG-3-00 WHERE NOT DETAILED OTHERWISE HER
		REFER TO LIGHT	TING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTUR REQUIREMENTS.
	EXISTING TO BE REMAIN AND REPLACED WITH NEW		SURFACE MOUNTED LINEAR LUMINAIRE
	REMOVE AND REINSTALL IN SAME POSITION REMOVE AND RELOCATE		RECESSED MOUNTED LUMINAIRE
	CEILING MOUNTED CONNECTION	\Diamond	RECESSED DOWNLIGHT
	WALL MOUNTED CONNECTION	Z1, Z2, ETC.	DENOTES ZONING/CIRCUTING ASSIGNMENTS FOR LUMINAIRES
	FLOOR MOUNTED CONNECTION	, , -	AND CONTROLS IN THE SAME SPACE. EMERGENCY LIGHTING
•	CENTRE LINE ABOVE FINISHED FLOOR	REFER TO	EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS.
i	ABOVE FINISHED GRADE		CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL
	OVER COUNTER	X/X *	ARROWS AS INDICATED ON PLANS.
	UNDER CABINET UNDER RAISED FLOOR		EMERGENCY LIGHTING BATTERY UNIT. ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING
-	CIRCUIT	_^ • <u>~</u>	REMOTE UNITS.
	CONNECT TO EXISTING	EM	DENOTES 'EMERGENCY"
I	ARC FAULT CIRCUIT INTERRUPTER		COMMUNICATIONS WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND
[GROUND FAULT CIRCUIT INTERRUPTER	4	UNLESS NOTED OTHERWISE.
	GROUND FAULT INTERRUPTER ISOLATED GROUND	-	WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLE NOTED OTHERWISE.
	TWIST LOCK		WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED
	TAMPER RESISTANT	,	OTHERWISE.
	WIRE GUARD	WAP	WIRELESS ACCESS POINT (WIFI) PUBLIC ADDRESS SPEAKER, CEILING AND WALL MOUNTED,
	WEATHER PROOF	PA	RESPECTIVELY.
	ROUGH-IN ONLY NOT IN CONTRACT		ACCESS CONTROL
	SIMILAR TO	CR DC	CARD READER DOOR CONTACT
	TYPICAL	ES	ELECTRIC STRIKE
	ABBREVIATIONS - CODES AND STANDARDS		MUSHROOM HEAD PUSH BUTTON FOR MAGLOCK RELEASE, OR
;	ONTARIO BUILDING CODE		OTHER PUSH BUTTON AS INDICATED
<u> </u>	ONTARIO ELECTRICAL SAFETY CODE ANNOTATIONS	•	BARRIER FREE DOOR OPERATOR PUSH BUTTON
	ROOM NUMBER		INTRUSION DETECTION
	CLOSET		GLASS BREAK (GB)
	WASHROOM	MD 7	MOTION DETECTOR (MD)
	FIRE PROTECTION FIRE EXTINGUISHER	KP	KEYPAD (KP)
	SPRINKLER HEAD		SOUNDER
	STANDPIPE FIRE HOSE CABINET	FACP	FIRE DETECTION AND ALARM FIRE ALARM CONTROL PANEL
	HVAC	FAAP	FIRE ALARM ANNUNICIATOR PANEL
	THERMOSTAT OR TEMPERATURE SENSOR	FAPG	FIRE ALARM PASSIVE GRAPHIC
	ELECTRIC BASEBOARD HEATER (BBH) FORCED FLOW HEATER	FAZ	FIRE ALARM ZONE
	ENERGY RECOVERY VENTILATOR	FSZ	FIRE ALARM SUPERVISORY ZONE
J	HEAT RECOVERY UNIT	EOL WG	END OF LINE DEVICE WIRE GUARD
١	MAKE-UP AIR UNIT	₩6	MANUAL PULL STATION (MPS)
 3	CONDUIT AND BOXES CONDUIT WITH END BUSHING	00	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTE
0	CONDUIT UP	CG	PULL STATION C/W LEXAN COVER.
- -)	CONDUIT DOWN		FIRE ALARM HORN
	JUNCTION BOX		FIRE ALARM HORN/STROBE, WALL MOUNTED.
]	PULL BOX		FIRE ALARM WALL MOUNTED STROBE LIGHT
J	CONNECTIONS TO EQUIPMENT	•	PHOTOELECTRIC SMOKE DETECTOR ADJACENT TO SMOKE DETECTOR, INDICATES C/W AUXILIARY
	DISHWASHER	A	RELAY
	FRIDGE	SA	WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM
	MICROWAVE		DUCT MOUNTED SMOKE DETECTOR
	HAND DRYER. ALLOW UP TO 208V-1PH-20A	EOL	END OF LINE (EOL) DEVICE ON ZONE INITIATION OR SIGNAL
	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)	IM	CIRCUITS ISOLATOR MODULE
	PLUMBING TRAP PRIMER	ilvi 🕜	HEAT DETECTOR - FIXED TEMPERATURE
	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.	HO	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN
	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.	FS	FLOW SWITCH
	ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL	PS	PRESSURE SWITCH
	SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.	SV	SUPERVISED VALVE
	SINGLE PHASE MOTOR, HP (KW) AS NOTED.		SINGLE LINE DIAGRAM
	THREE PHASE MOTOR, HP (KW) AS NOTED.	• • •	CIRCUIT BREAKER
	CLOCK.	· · ·	DISCONNECT (UNFUSED)
) SPFC	LIGHTING CONTROLS IFICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS		FUSE
			METER
	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.		TRANSFORMER
	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.	C	CONTACTOR
	ADJACENT TO SWITCH, DENOTES KEY SWITCH.	DP	DISTRIBUTION PANELBOARD
	ADJACENT TO SWITCH, DENOTES KEY SWITCH. ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL	PP	POWER PANELBOARD
	ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED.	SPD	SURGE PROTECTIVE DEVICE
	WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES	SWBD	SWITCHBOARD TRANSFORMER
₹	'PASSIVE INFRARED', DT DENOTES 'DUAL PASSIVE INFRARED/ULTRASONIC'. LINE VOLTAGE TO SUIT CONTROLLED	IX.	DETAIL REFERENCES
	CIRCUIT.	1	
	POWER PACK		SHEET KEYNOTE
	TIMER SWITCH.	1	REVISION NUMBER
	CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE INFRARED', UT DENOTES 'ULTRASONIC' (OR MICROPHONIC), DT	THIS I FOEND IS	 S GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS
 ۱	DENOTES 'DUAL TECHNOLOGY'. WALL MOUNTED OCCUPANCY SENSOR.		ER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT
,	TO LE INCOMPLED COOCH ANOT DENOUN.		

	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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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
NO.	DATE	DESCRIPTION

PROJECT:

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

DRAWING TITLE:

ELECTRICAL LEGEND AND DRAWING LIST

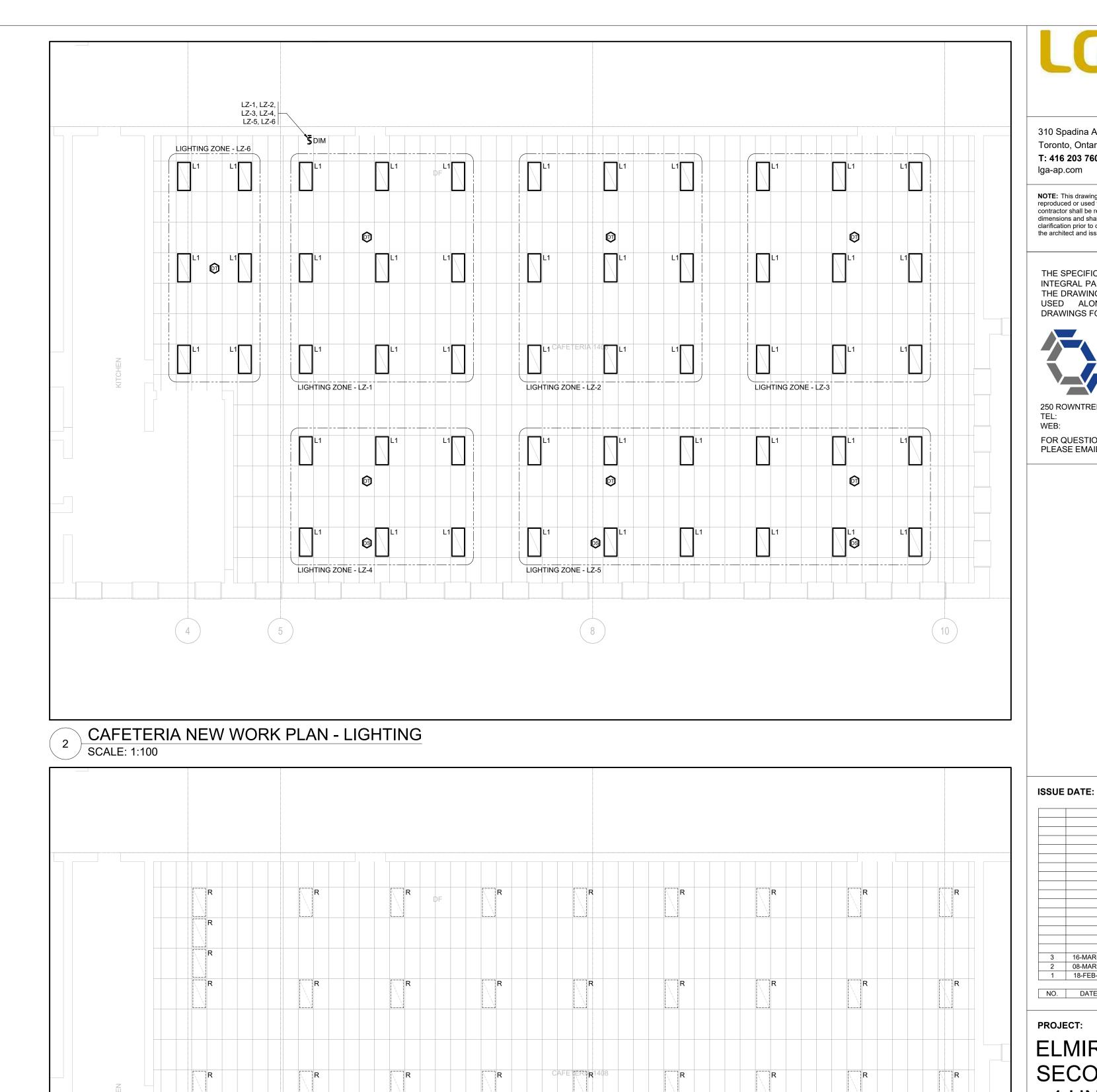
PROJECT NO: ED-20-300 NOT TO SCALE SCALE: DRAWN BY: CW

REVIEWED BY: BD/TWS

PROJECT NORTH:

DRAWING NO:

EA-001



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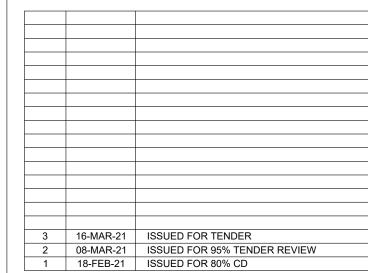
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PROJECT: **ELMIRA DISTRICT** SECONDARY SCHOOL - 4 UNIVERSITY AVE WEST, ELMIRA ON N3B 1K2

DRAWING TITLE:

CAFETERIA LIGHTING PLANS

PROJECT NO: ED-20-300 DRAWN BY: CW

PROJECT NORTH:

REVIEWED BY: BD/TWS

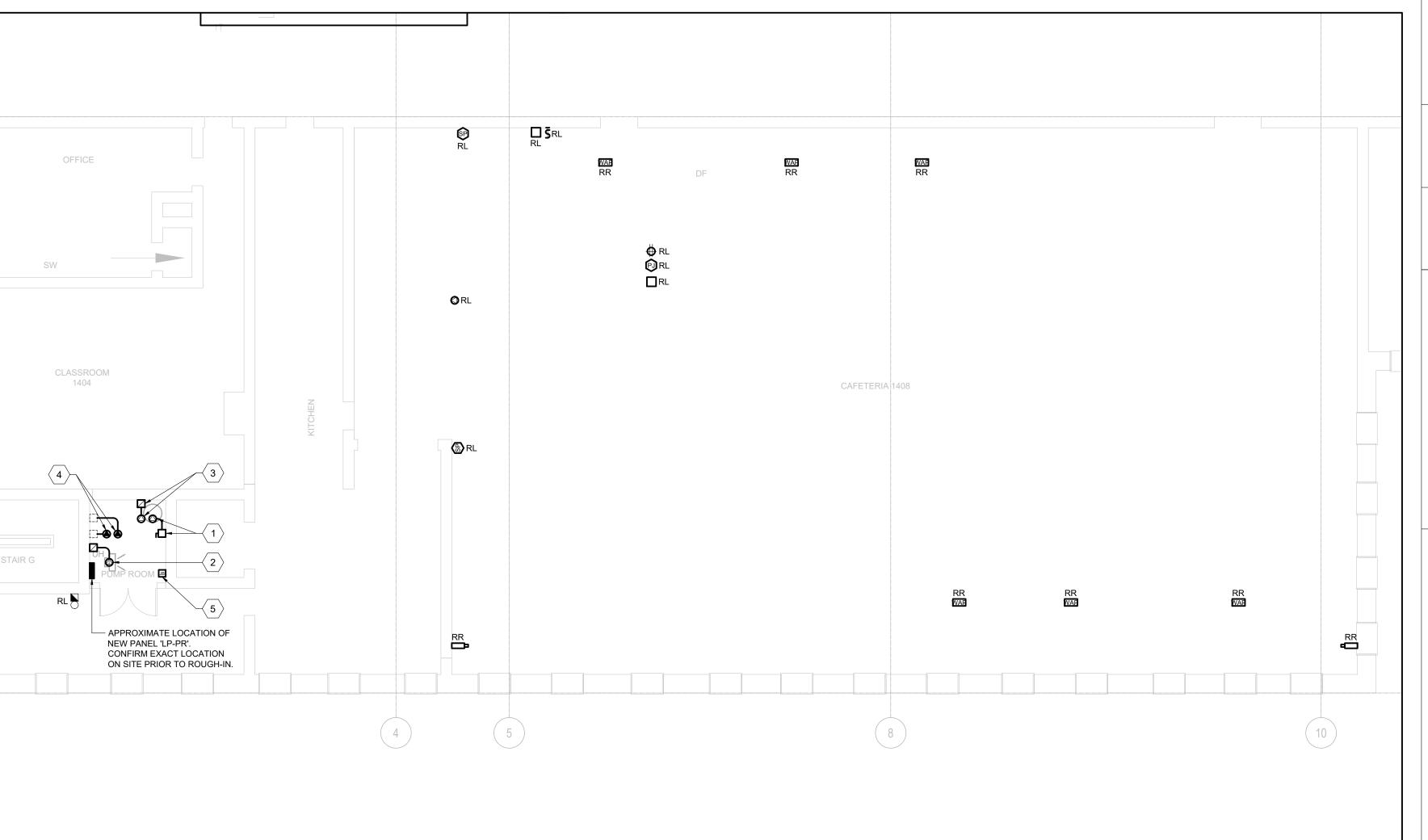
DRAWING NO: EL-101

CAFETERIA DEMOLITION PLAN - LIGHTING SCALE: 1:100

NEW WORK SHEET KEYNOTES

CONNECTION TO RELOCATED DOMESTIC HOT WATER TANK. EXTEND 2#10 + GROUND IN 21mm $\binom{3}{4}$ ") CONDUIT FROM DHW TANK TO BREAKER IN NEW PANEL 'LP-PR' AND CONNECT COMPLETE. REFER TO PANEL SCHEDULES FOR FURTHER DETAILS. CONNECTION TO NEW UNIT HEATER 'UH-1'. EXTEND 2#12 + GROUND IN 21mm CONDUIT FROM BREAKER IN NEW PANEL 'LP-PR' 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. CONNECTION TO NEW DOMESTIC HOT WATER RECIRC PUMP 'C11'. EXTEND 2#10 + GROUND IN 21mm ($\frac{3}{4}$ ") CONDUIT FROM RECIRC. PUMP TO ASSOCIATED BREAKER IN NEW PANEL 'LP-PR' AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED STARTER. STARTER TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO PANEL SCHEDULES FOR
- FURTHER DETAILS. CONNECTION TO NEW PUMPS 'C9' AND 'C10' AND ASSOCIATED VARIABLE FREQUENCY DRIVES, FED FROM NEW SPLITTER 'L' IN BASEMENT. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED VFDs. REFER TO SINGLE LINE DRAWING FOR BRANCH FEEDER REQUIREMENTS.



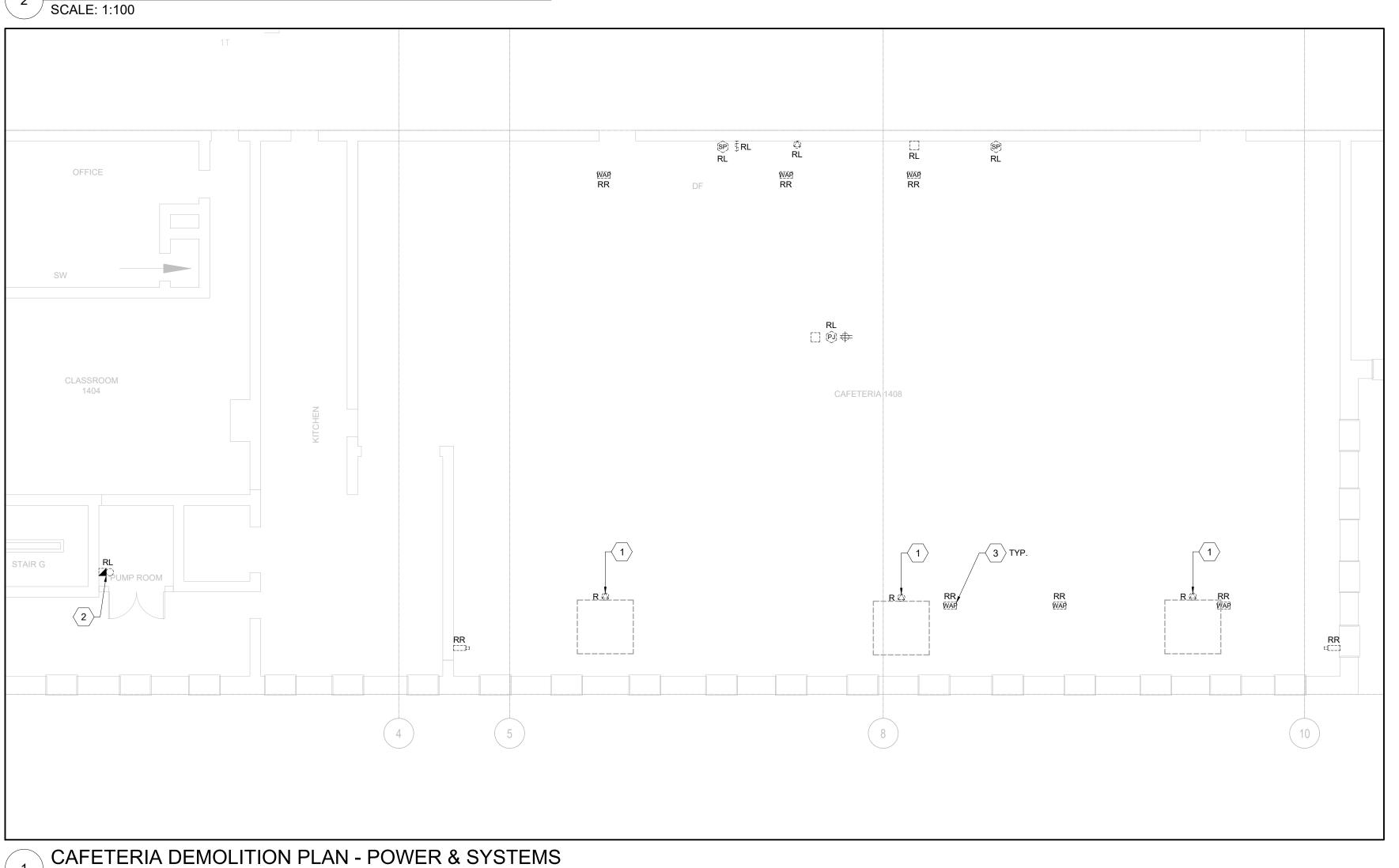
CAFETERIA NEW WORK PLAN - POWER & SYSTEMS

SCALE: 1:100

DEMOLITION SHEET KEYNOTES

CONNECTION TO EXISTING FAN COIL UNIT WITHIN CEILING SPACE OF CAFETERIA TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE ELECTRICAL DISTRIBUTION. CONDUIT EMBEDDED WITHIN WALLS OR FLOORS CAN BE ABANDONED. RETAIN EXISTING BREAKERS IN PANELBOARD AS SPARE.

- EXISTING FIRE ALARM BELL TO BE RELOCATED TO ACCOMMODATE ENCLOSING OF SPACE TO CREATE A NEW PUMP ROOM. BE RESPONSIBLE TO MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO SUIT NEW LOCATION OF DEVICE AS SHOWN ON NEW WORK PLANS. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK.
- EXISTING WIRELESS ACCESS POINT TO BE DISCONNECTED AND REMOVED, STORED ON SITE AND RE-INSTALLED IN SAME LOCATION BY OWNER'S (WRDSB) PREFERRED SYSTEM VENDOR AS PART OF A PRIME COST ALLOWANCE CARRIED BY THE GENERAL CONTRACTOR. BE RESPONSIBLE TO CONFIRM ON SITE IF EXISTING BACKBOXES EXIST BEHIND ACCESS POINT AND PROVIDE NEW, AS REQUIRED, FOR REINSTALLATION OF ACCESS





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PROJECT:

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

DRAWING TITLE:

CAFETERIA POWER & SYSTEMS **PLANS**

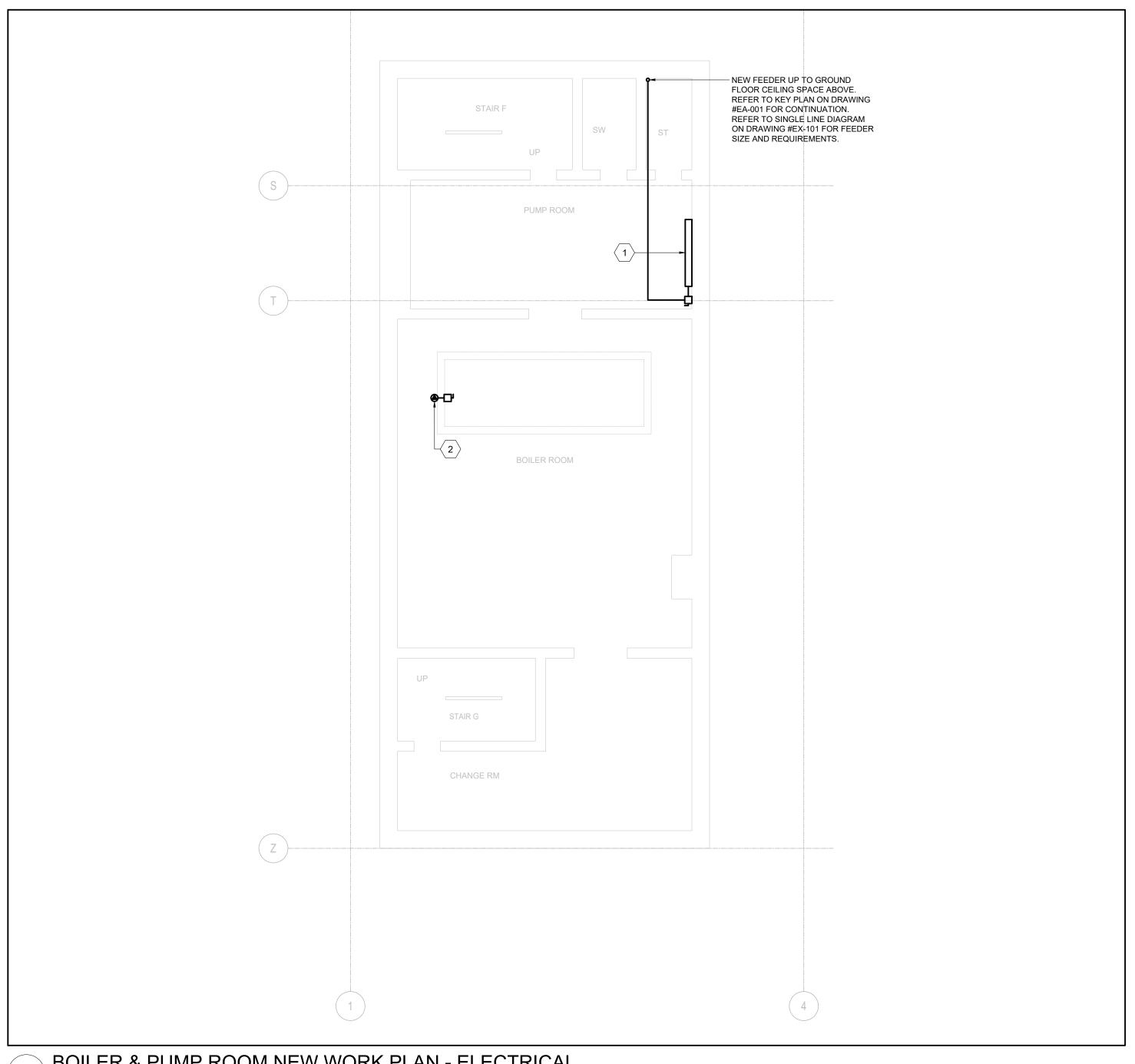
PROJECT NO: ED-20-300 SCALE: AS SHOWN **DRAWN BY:**

PROJECT NORTH:

DRAWING NO:

REVIEWED BY:

EP-101



BOILER & PUMP ROOM NEW WORK PLAN - ELECTRICAL

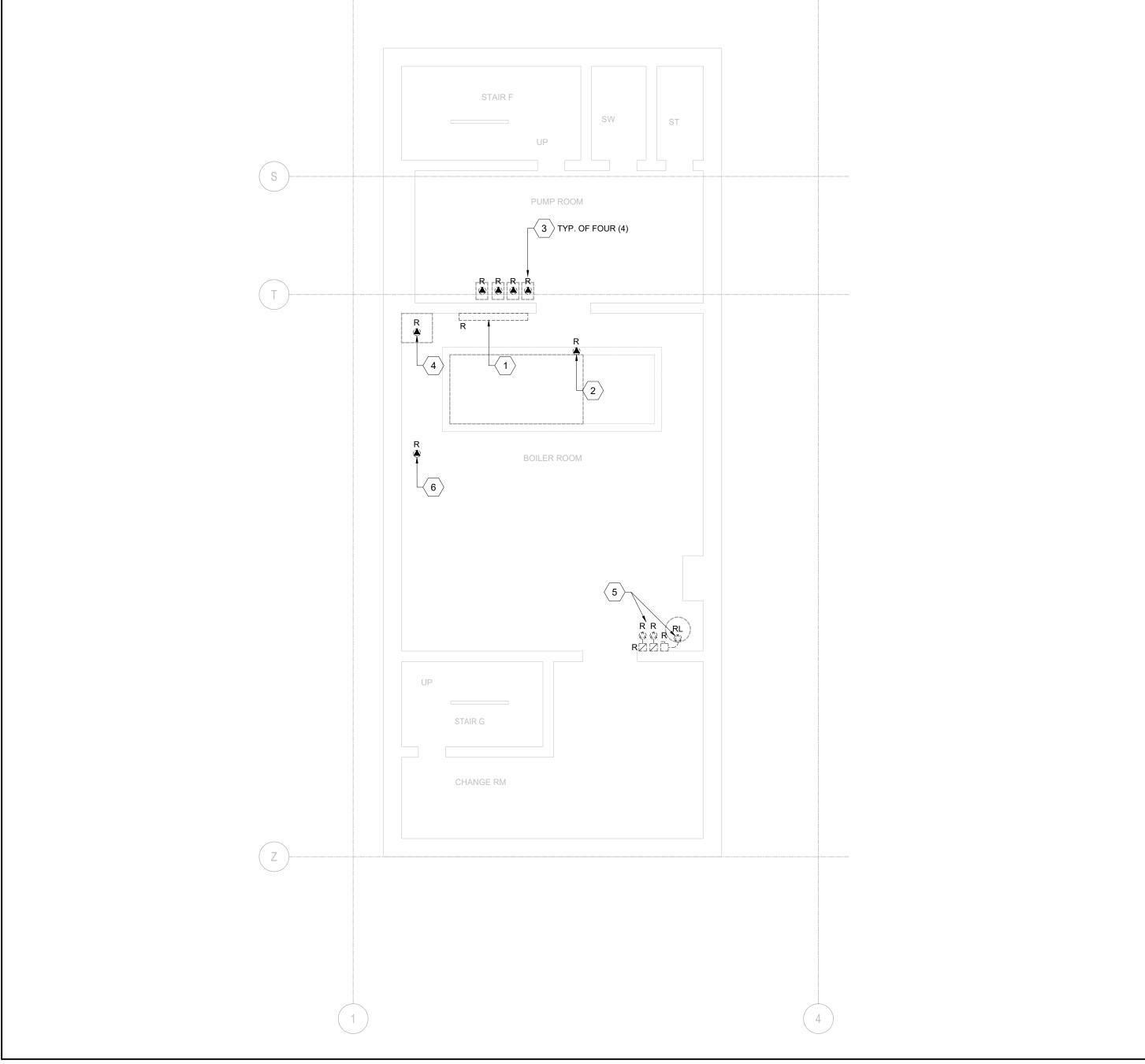
NEW WORK SHEET KEYNOTES

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. 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.



BOILER & PUMP ROOM DEMOLITION PLAN - ELECTRICAL

DEMOLITION SHEET KEYNOTES

EXISTING SPLITTER PANEL 'L' TO BE REMOVED AND REPLACED IN ITS ENTIRETY. BE RESPONSIBLE TO REMOVE EXISTING FEEDER (CONDUIT AND WIRE) BACK TO SOURCE SUBSTATION 'A' IN ITS ENTIRETY AND RETAIN EXISTING BREAKER AS SPARE. ANY CONDUIT CONCEALED WITHIN EXISTING WALL OR FLOOR CONSTRUCTION SHALL BE ABANDONED. FOR EXISTING LOADS BEING RETAINED, BE RESPONSIBLE TO SPLICE AND EXTEND EXISTING FEEDERS TO NEW SPLITTER LOCATION AND CONNECT TO ASSOCIATED NEW DISCONNECT SWITCH/STARTER COMPLETE REFER TO SINGLE LINE DRAWING FOR FURTHER DETAILS. REFER TO KEYPLAN ON DRAWING #EA-001 FOR LOCATION OF EXISTING SUBSTATION 'A'.

- CONNECTION TO EXISTING BOILER TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL 'L'.
- CONNECTION TO EXISTING PUMP TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL 'L'.
- CONNECTION TO EXISTING OIL PUMP TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL 'L'.
- CONNECTIONS TO EXISTING DOMESTIC HOT WATER TANK AND ASSOCIATED RECIRC. PUMPS TO BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. EXISTING STARTERS AND ASSOCIATED LINE AND LOAD CONNECTIONS TO RECIRC. PUMPS TO BE REMOVED IN
- CONNECTION TO EXISTING BOILER ROOM SUPPLY FAN TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT AND CABLING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL 'L'.



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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:

BOILER & PUMP ROOM PLANS -ELECTRICAL

PROJECT NO: ED-20-300 SCALE: AS SHOWN **DRAWN BY:**

PROJECT NORTH:

DRAWING NO: EP-102

REVIEWED BY:

NEW WORK SHEET KEYNOTES

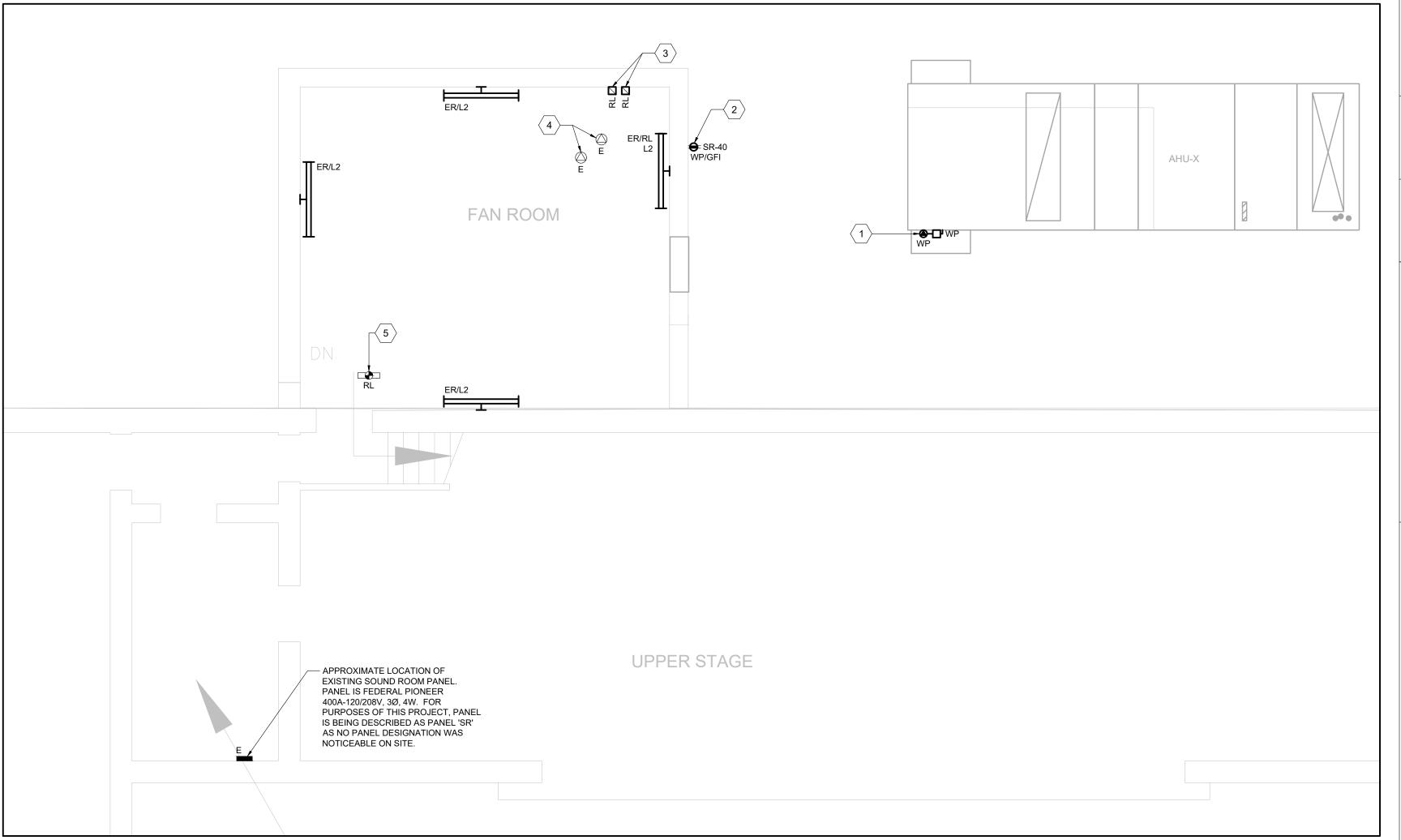
- CONNECTION TO NEW ROOF TOP UNIT 'HV-27'. EXTEND NEW FEEDER FROM UNIT TO NEW SPLITTER 'L' WITHIN EXISTING PUMP ROOM AS SHOWN ON DRAWING #EP-102. REFER TO SINGLE DIAGRAM FOR FEEDER REQUIREMENTS.

 PROVIDE NEW WALL MOUNTED SERVICE RECEPTACLE. PROVIDE A 20A-1P GFI TYPE BREAKER WITHIN EXISTING PANEL IN SOUND ROOM AND EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM BREAKER TO RECEPTACLE LOCATION AND CONNECT COMPLETE. RECEPTACLE SHALL BE INSTALLED MINIMUM 750mm ABOVE
- FINISHED ROOF LEVEL.

 3. EXISTING STARTERS FOR EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS IN RELOCATED POSITION.

 4. CONNECTIONS TO EXISTING WASHROOM AND CHANGE ROOM
 - EXHAUST FANS TO REMAIN.

 RE-INSTALL EXISTING FIRE ALARM DUCT DETECTOR WITHIN NEW DUCTWORK AND RECONNECT TO EXISTING SYSTEM WIRING COMPLETE. TEST AND VERIFY DEVICE UPON COMPLETION OF



GYM MECHANICAL ROOM NEW WORK PLAN - ELECTRICAL

DEMOLITION SHEET KEYNOTES

- CONNECTION TO EXISTING SUPPLY AIR UNIT TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLING BACK TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL WITHIN EXISTING BOILER ROOM.

 CONNECTION TO EXISTING RETURN FAN TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, CABLING BACK
- TO SOURCE AND ASSOCIATED STARTER WITHIN EXISTING SPLITTER PANEL WITHIN EXISTING BOILER ROOM.

 3. CONNECTION TO EXISTING HOT WATER CIRCULATION PUMP TO BE REMOVED IN ITS ENTIRETY INCLUDING ALL ASSOCIATED CONDUIT, WIRING AND DISCONNECT SWITCH/STARTER BACK TO
- CONDUIT, WIRING AND DISCONNECT SWITCH/STARTER BACK TO SOURCE ELECTRICAL DISTRIBUTION. EXISTING CONDUIT EMBEDDED WITHIN EXISTING WALL OR FLOOR CONSTRUCTION CAN BE ABANDONED.

 4. STARTERS FOR EXISTING GYM SUPPLY 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
- FROM NEW DOOR, INCLUDING ACCESSING CEILING SPACE OF FLOOR BELOW. REFER TO TO NEW WORK DRAWINGS FOR NEW LOCATION OF STARTERS.

 6. CONNECTIONS TO EXISTING WASHROOM AND CHANGE ROOM EXHAUST FANS TO REMAIN.

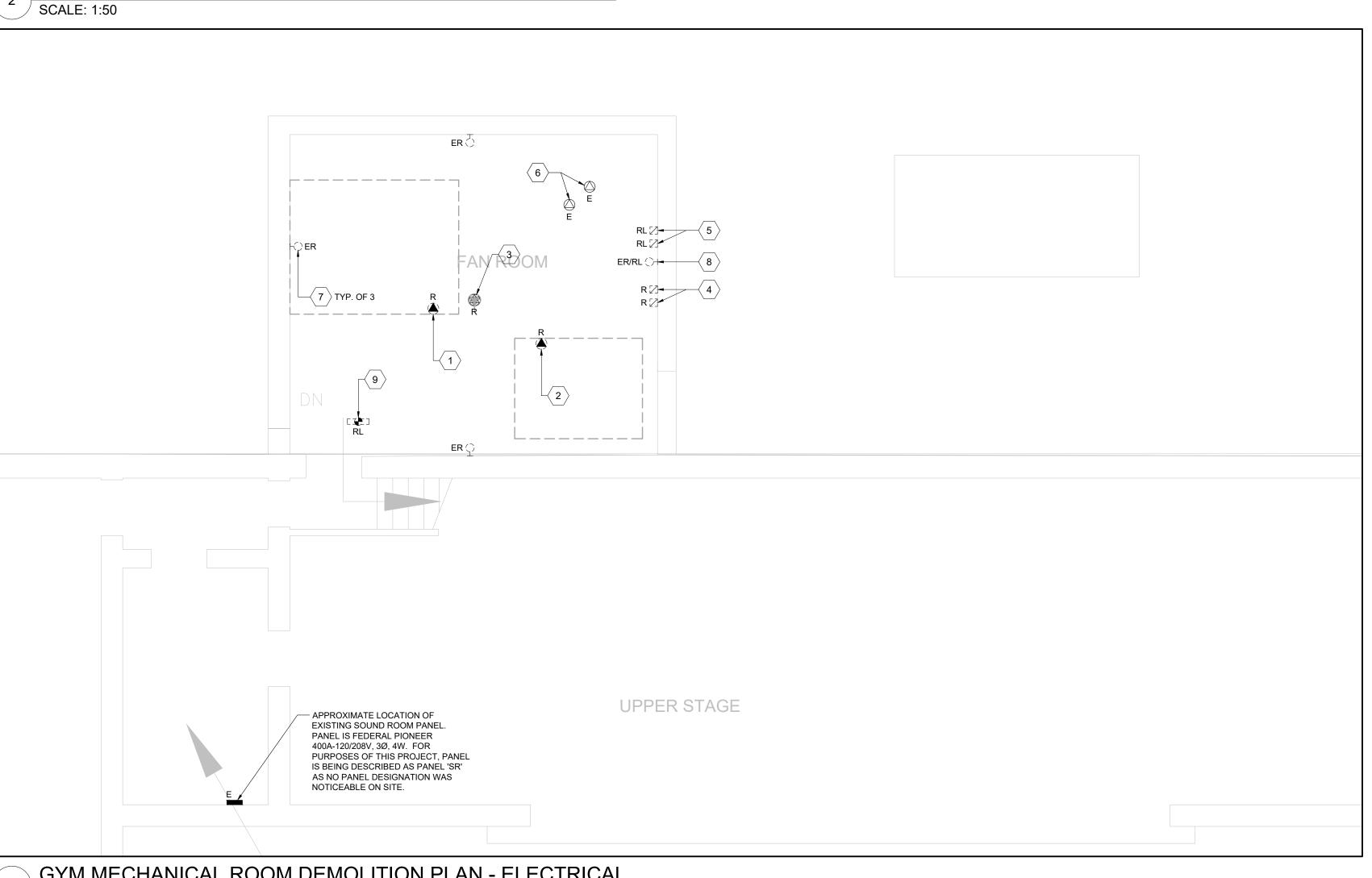
DOOR. BE RESPONSIBLE TO MODIFY EXISTING BRANCH CIRCUIT WIRING AS REQUIRED TO REROUTE EXISTING FEEDERS AWAY

- 7. EXISTING WALL MOUNTED LUMINAIRES TO BE REMOVED AND REPLACED WITH NEW. BE RESPONSIBLE TO MODIFY EXISTING LIGHTING BRANCH CIRCUIT(S) AS REQUIRED TO ACCOMMODATE NEW LUMINAIRES.
- 8. EXISTING WALL MOUNTED LUMINAIRE TO BE RELOCATED AND REPLACED WITH NEW TO ACCOMMODATE NEW DOOR. BE RESPONSIBLE TO MODIFY EXISTING LIGHTING BRANCH CIRCUIT(S) AS REQUIRED TO ACCOMMODATE NEW LUMINAIRE. REFER TO NEW WORK PLAN FOR NEW LOCATION OF LUMINAIRE.

 9. EXISTING FIRE ALARM DUCT DETECTOR TO BE REMOVED FROM EXISTING DUCTWORK BEING DEMOLISHED AND RE-INSTALLED WITHIN NEW DUCTWORK INSTALLATION. BE RESPONSIBLE TO

MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE REMOVAL AND REINSTALLATION OF DUCT

DETECTOR. RE-VERIFY DEVICE UPON COMPLETION OF WORK.



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DO NOT SCALE DRAWINGS



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ISSUE DA

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	

PROJECT

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

DRAWING TITLE:

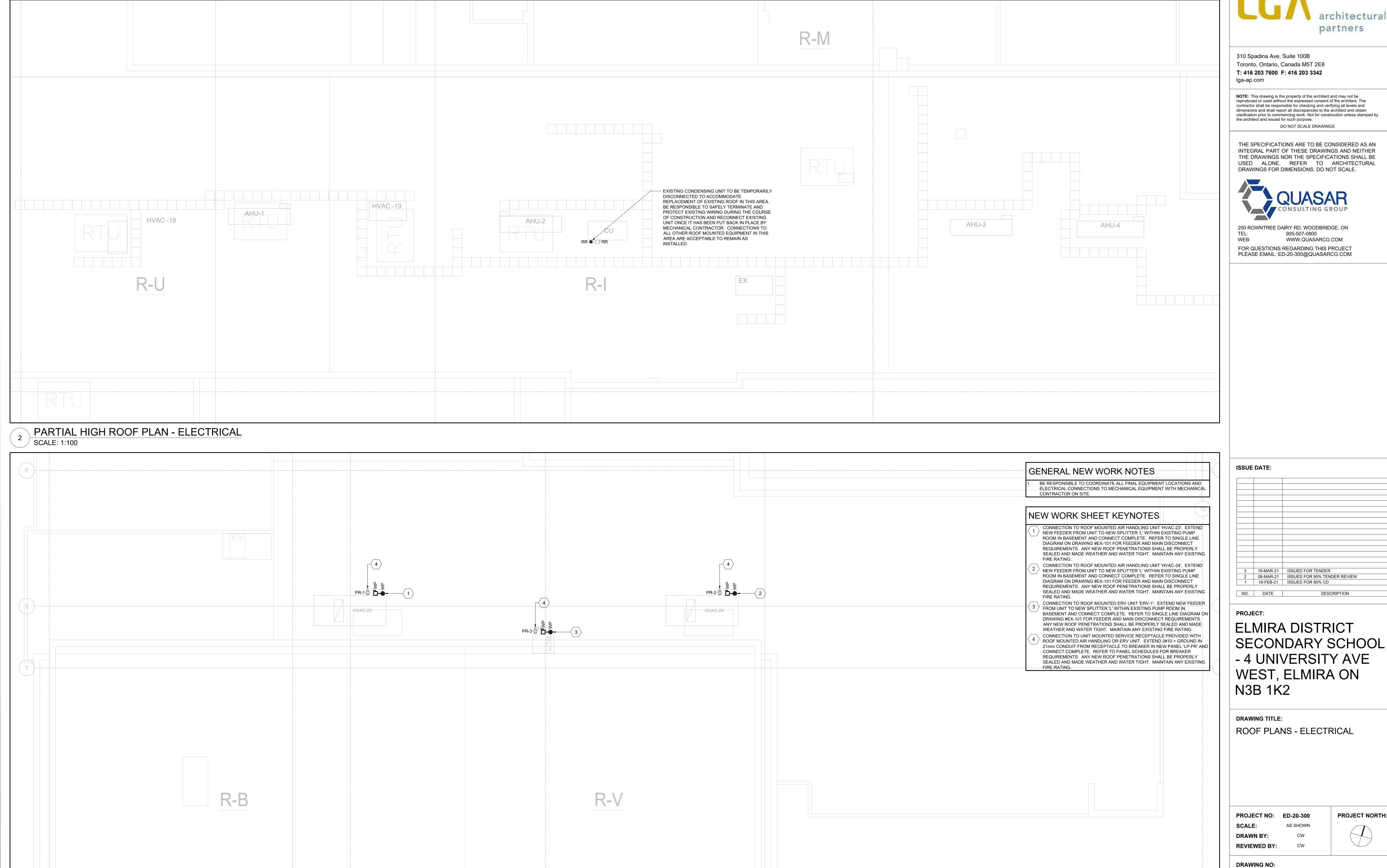
GYM MECHANICAL ROOM PLANS
- ELECTRICAL

PROJECT NO: ED-20-300
SCALE: AS SHOWN
DRAWN BY: CW
REVIEWED BY: CW

PROJECT NORTH:

DRAWING NO:
EP-103

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



PARTIAL ROOF PLAN ABOVE CORRIDOR AT CAFETERIA - ELECTRICAL

SCALE: 1:100

0002	. 5, (1 = 1	
3	16-MAR-21	ISSUED FOR TENDER
2	08-MAR-21	ISSUED FOR 95% TENDER REVIEW
1	18-FEB-21	ISSUED FOR 80% CD
		_

SECONDARY SCHOOL

EP-104

	PANEL ID: LP-P		VOLTS: 120/208V				LOCATION: NEW PUMP ROOM								
MAIN BUS: 100A					PHASE: 3				FED FROM: NEW SPLITTER 'L' (BASEMENT)						
	MAIN BREAKER: N	WIRE: 4				FEEDER ENTRY AT: BOTTOM									
	TYPE:	MOUNTING: RECESSED				FEEDER: REFER TO SINGLE LINE									
INT	ERRUPTING CAPACIT	Y: 10KA	MIN	ENC	LOSURE	ERAT	ING:			RE	EMARKS:				
R	DESCRIPTION		WATTAGE		BRK		BRK	WATTAGE			DESCRIPTION	CIR			
0.	DEGOMI HON	ØA	ØB	ØC	R	R Ø	R	ØA	ØB	ØC	DEGGIAII FIGIV	NO.			
I	'HVAC-23' SERVICE RECEPTACLE	1500	-	-	20**	А	20**	1500	-	-	'HVAC-23' SERVICE RECEPTACLE	2			
3	'ERV-1' SERVICE RECEPTACLE	-	1500	-	20**	В	15	-	150	-	UNIT HTR 'UH-1'	4			
5	DHW RECIRC. PUMP 'C11'	-	-	150	15	С	15	-	-	500	DHW TANK	6			
7	SPARE BRKR	-	-	-	20	Α	15	-	-	-	SPARE BRKR	8			
)	SPARE BRKR	-	-	-	20	В	15	-	-	_	SPARE BRKR	10			
1	SPARE BRKR	-	-	-	15	С	15	-	-	-	SPARE BRKR	12			
3	SPARE BRKR	-	-	-	15	Α	15	-	-	-	SPARE BRKR	14			
5	SPACE	-	-	-	15	В	20	-	-	-	SPACE	16			
7	SPACE	-	-	-	15	С	15	-	-	-	SPACE	18			
9	SPACE	-	-	-	15	Α	15	-	-	-	SPACE	20			
1	SPACE	-	-	-	15**	В	15	-	-	-	SPACE	22			
3	SPACE	-	-	-		С	15	-	-	-	SPACE	24			
5	SPACE	-	-	-	15**	Α	15	-	-	-	SPACE	26			
	SPACE	-	-	-		В	15*	-	-	_	SPACE	28			
7					15	С	15	_	_	_	SPACE	30			

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

SCALE: NOT TO SCALE

L - LIGHTING

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'-0" LONG LED LUMINAIRE COMPLETE WITH ROUNDED EXTRUDED RIBBED 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		

	SCHEDULE 26 06 50.23 - LIGHTING CONTROL DEVICE SCHEDULE										
SYMBOL T	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPECIFICATION SECTION	SPACES SERVED	REMARKS		
\$Z1, Z2 U B	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 CONTROLS/nLIGHT NPODM SERIES PHILIPS REVOLUTION SERIES DR2PA	DIGITAL	-	WALL	26 09 43				
(p)	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				
©S D	DH-C	CEILING MOUNTED PHOTOCELL SENSOR FOR INTERIOR DAYLIGHT HARVESTING			24 V		26 09 23				

3. DUAL TECHNOLOGY SENSORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE INFRARED/MICROPHONIC, DEPENDING ON MANUFACTURER. MICROPHONIC 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.

CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.
 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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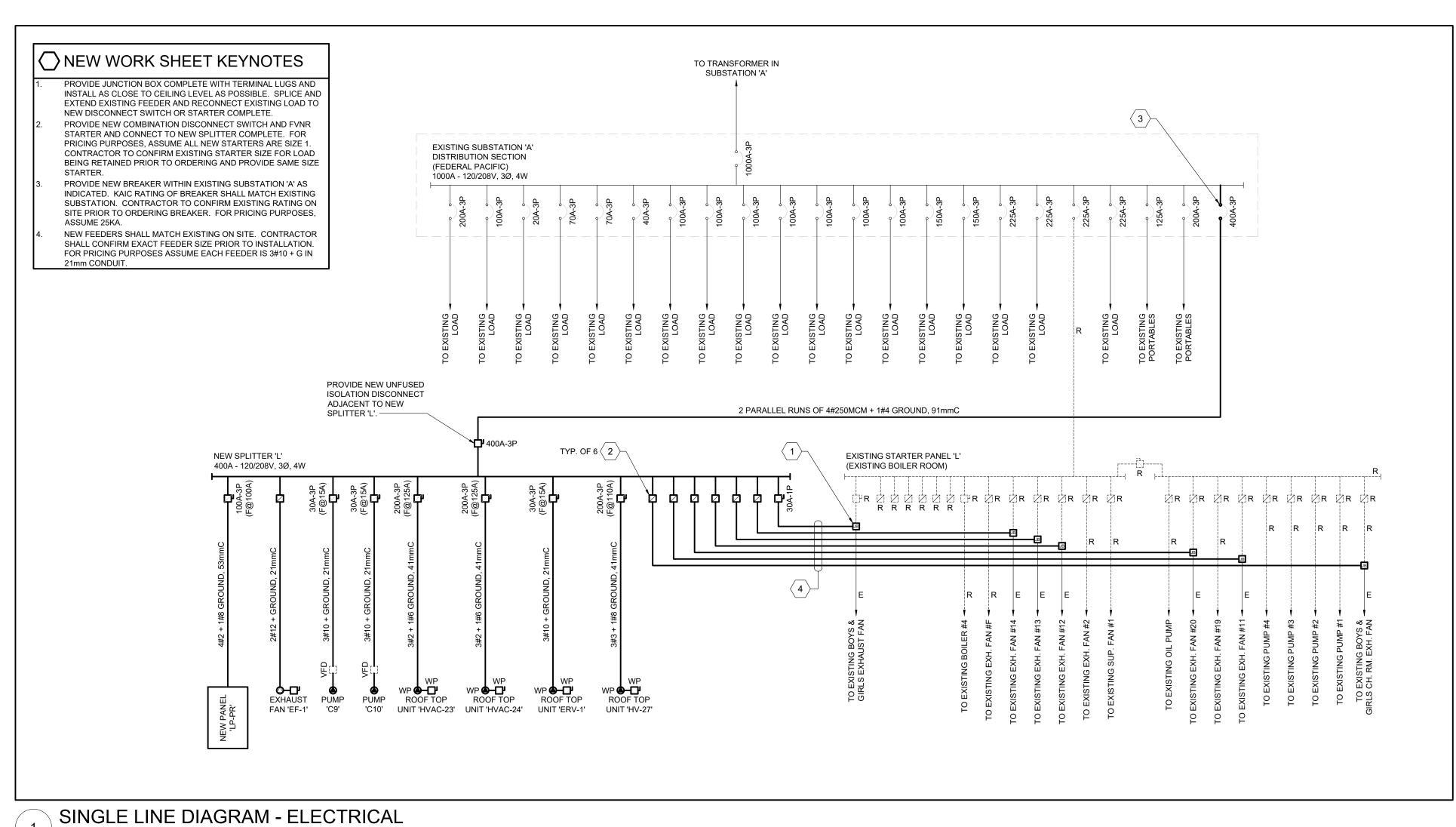
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ELECTRICAL LIGHTING AND PANEL SCHEDULES
SCALE: NOT TO SCALE



PROJECT:

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

DRAWING TITLE:

ELECTRICAL SCHEDULES AND SINGLE LINE DIAGRAM

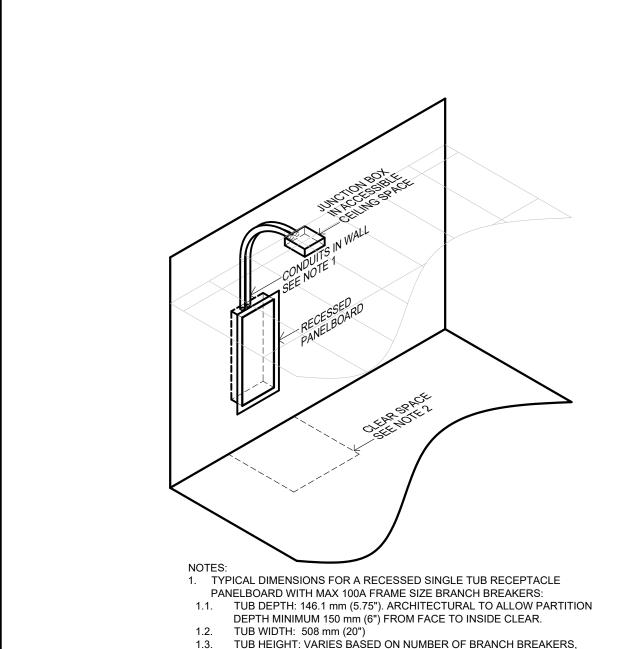
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SCALE: NOT TO SCALE
DRAWN BY: CW

PROJECT NORTH:

DRAWING NO:

REVIEWED BY:

EX-101



POLE), BUT CAN ALSO BE TALLER.

ELECTRICAL SAFETY CODE RULE 2-308(1)).

OR WALL, REINSTATE WALL AND CEILING.

CIRCUITS AS FOLLOWS:

TYPICALLY RANGES BETWEEN 48 INCH (30 POLE), AND 72 INCH (42

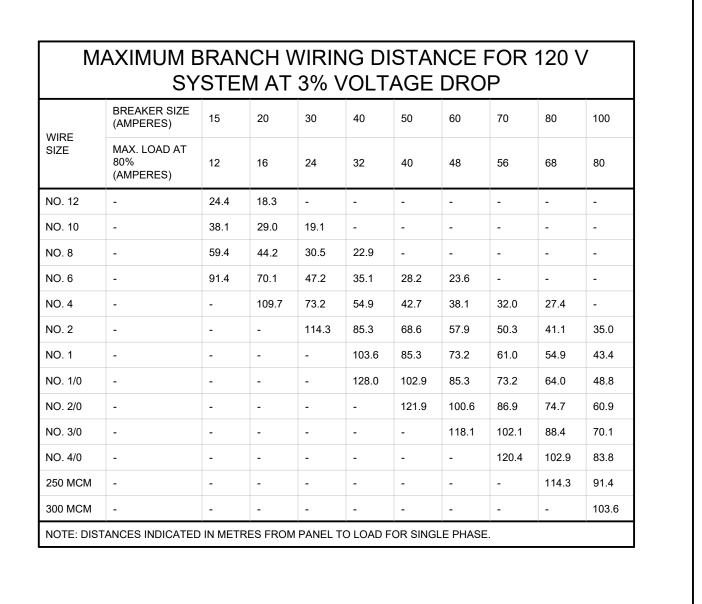
1.4. RECESSED PANELBOARD TRIM PLATE: TYPICALLY TUB DIMENSIONS

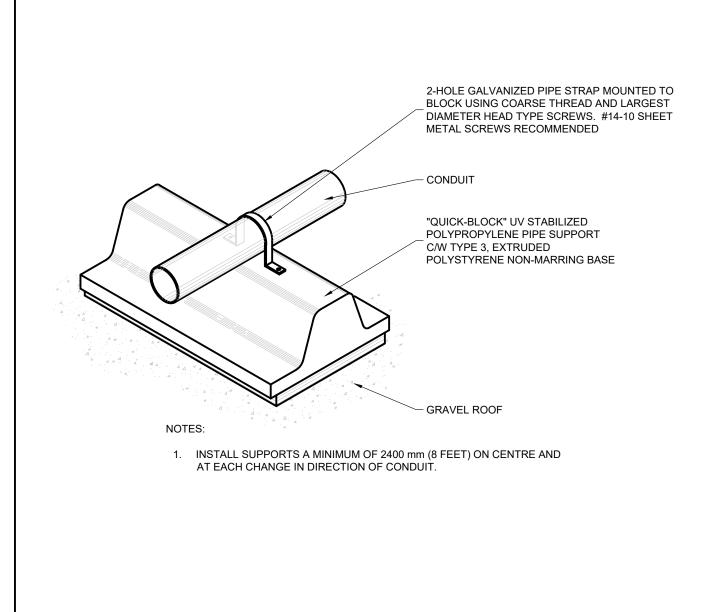
3. BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE TO ACCOMMODATE

3.1. UP TO 100A, 42 CIRCUIT PANELBOARD: 2 x 41 mm (1-1/2") Ø 3.2. UP TO 225A, 42 CIRCUIT PANELBOARD: 2 x 41 mm (1-1/2") Ø 3.3. UP TO 400A, 42 CIRCUIT PANELBOARD: 2 x 53 mm (2") Ø 3.4. UP TO 600A, 42 CIRCUIT PANELBOARD: 3 x 53 mm (2") Ø 4. MINIMUM JUNCTION BOX SIZE: 600 mm BY 600 mm BY 75 mm.

CLEAR SPACE: MINIMUM 1000 mm BY 1000 mm SQUARE BY 2000 mm HIGH. PANEL NEED NOT BE CENTRED IN THE CLEAR SPACE (ONTARIO

WHEN INSTALLING NEW RECESSED PANELBOARD IN EXISTING PARTITION





partners

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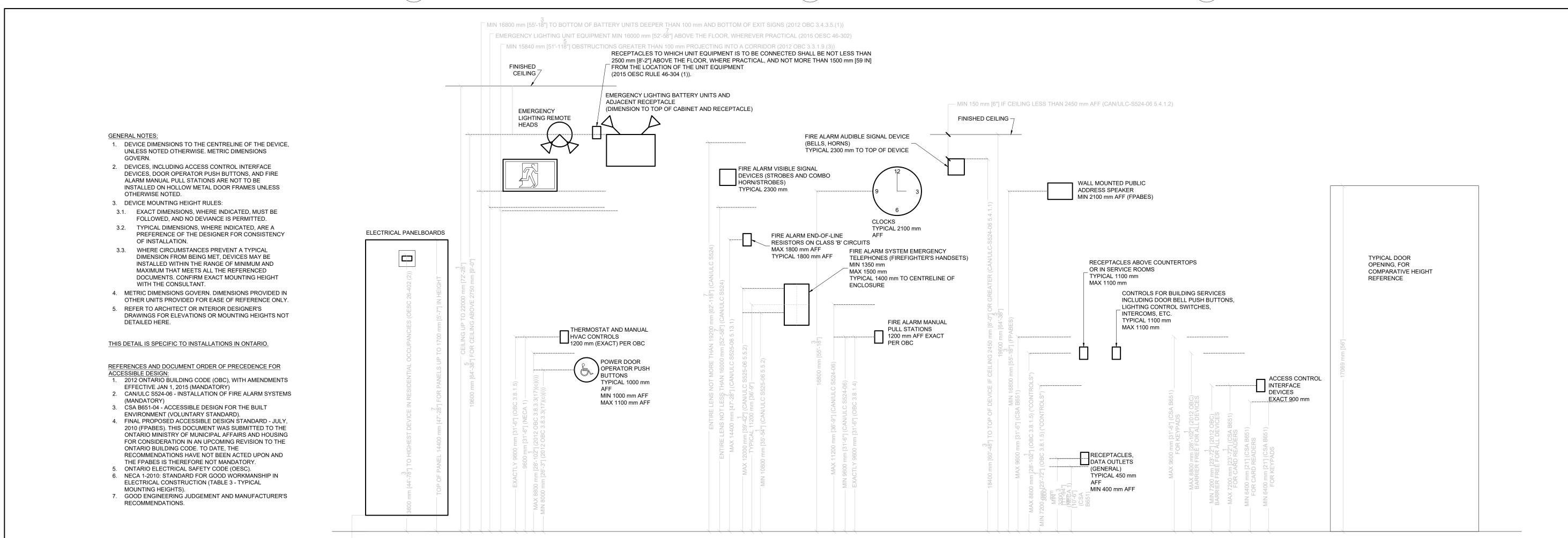


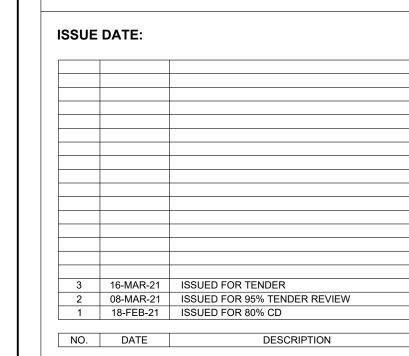
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PANEL BOARD DETAIL SCALE: NOT TO SCALE

MAXIMUM WIRING DISTANCE AT 3% VOLTAGE DROP SCALE: NOT TO SCALE

ROOF TOP CONDUIT SUPPORT DETAIL SCALE: NOT TO SCALE





PROJECT:

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

DRAWING TITLE:

ELECTRICAL DETAILS

PROJECT NO: ED-20-300 NOT TO SCALE DRAWN BY:

REVIEWED BY: BD/TWS

PROJECT NORTH:

DRAWING NO:

EX-102